

2012 **TORQUE** **CONVERTER CATALOG**

*the most comprehensive guide to torque converters
in the automotive industry*

*This catalog has many new features
exclusive to our new catalog:*

- **Year, Make, Model, Engine Size Section**
- **Driveline Needs Assessment (DNA) Database**
including **Technical Service Bulletins (TSB)**
notations for specific transmissions and torque
converters.
- **More than 100 new part numbers with applications**
through 2012, import and domestic, traditional and
hybrid transmissions.
- **Updated photos, charts, codes, technical data, and
application information**

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CONVERTER INSTALLATION

TRANSMISSION / TORQUE CONVERTER INSTALLATION

Any quality transmission repair is dependent upon several factors such as proper initial diagnosis, top quality replacement parts, and sound rebuilding practices and procedures.

Another important function of the process is installation or "R&R." The best remanufactured transmission/torque converter can be greatly affected or even destroyed by improper installation procedures.

As with rebuilding the transmission, there are installation basics which should be adhered to in order to avoid wasting time or having potential problems. Following are examples of installation basics:

1. Correct Identification

The technician must verify that the torque converter is the correct application, despite potential misboxing, order error, or lack of specific identifiers. Examples include:

- a. Spline Counts – AX4S 23/25 spline turbine shaft
- b. Hub Length – Honda hubs with pump gear splines
- c. Timing Marks – Chrysler with ignition timing mark
- d. Stall Speed – Various models which have impeller dimples
- e. Lockup Piston Lining – GM On/Off vs. PWM vs. EC3 strategy
- f. Pilot Type – Toyota/Ford diameter, length, or style
- g. Balance – Chrysler with counterbalance weights
- h. Damper Design – Ford single/twin disc, and damper spring capacity
- i. Bolt/Nut Threads – Various applications using standard/metric, fine/coarse

There are several variables beyond what is listed, so be diligent.

2. Sealing Component

There is a variety of sealing components used on transmission input shafts/stator supports for lockup applications. Whether the item is an o-ring or Teflon sealing ring, the size must be correct. Honda, for instance, uses an o-ring on the impeller hub and size can vary from model to model. The o-ring cross section is as important as the diameter.

Material is another concern due to the heat that a torque converter can generate. The wrong material will take a heat set and lose all sealing capability, which will cause lockup problems.

3. Crankshaft Pilot

Before inserting the torque converter into the transmission, verify that the "fit" between the torque converter pilot and crankshaft pilot bore is correct by placing the torque converter in position and checking for proper clearance. Certain vehicles, such as Ford's A4LD family, have removable crank pilots which tend to wear and should be replaced.

CONVERTER INSTALLATION

4. Alignment

All applications use some means to properly align the engine and transmission. Normally this is accomplished by the use of dowel pins. At times, when a transmission is removed, one or both dowel pins stick to the transmission and do not remain with the engine. The replacement transmission will not contain the dowels and once re-installed, misalignment will occur.

Bell housing bolts themselves align nothing.

Another issue is that, at times, the dowel pin holes in the transmission housing can be worn which will also result in misalignment. Always ensure that both dowel pins are there, that the corresponding holes are not worn, and that there are no other obstructions to proper engine/transmission alignment.

Lastly, applications like the 5R55W/N which use a dual plate design (1 flex plate, 1 flywheel) do require an alignment tool for proper installation. Not using this tool can cause various problems as well.

5. Clearances

Once the transmission is bolted to the engine, the torque converter mounting pad to flex plate clearance must be checked. Proper clearance is important for a couple of reasons. Too little clearance will put undue load on pump gears or the crankshaft thrust bearing, based upon design. Too much clearance will not allow enough engagement of the hub drivers into the pump gear or drive splines, resulting in gear breakage or stripped splines.

Incorrect clearance can be the result of improper torque converter stack height, incorrect flex plate/flywheel, improper pump gear position, etc. Clearances less than 1/8" or more than 3/16" should be scrutinized.

Torque converter clearances can be checked even on applications having a full round bell housing.


6. Attachment

A torque converter is attached to the flex plate/flywheel by either bolts or nuts. Beyond the initial question of whether they are standard or metric thread is the question of pitch, which could be fine or coarse.

An important factor is length. Using a bolt which is too long can damage the torque converter cover, especially on lockup types. The bolt can dimple the machined surface of the cover where the lockup piston lining makes contact, resulting in lockup issues. Therefore, be aware of the mounting pad thickness.

HOW TO USE THIS CATALOG

INTRODUCTION



Torque Converter Part Number

BMW38

Outer Diameter of Converter

DIA. (BOLT CIRCLE)

10.25" (9.3")

Bolt Circle Diameter

PILOT

1.257"

Pilot Diameter

SPLINES

27

Turbine Spline Count

MOUNT

3 Pads, 10mm x 1.5

Mount Type & Quantity

NOTES

Carbon Woven High Stall

APPLICATION | CODES

1999 323i 2.5L, 01-07 3 Series 3.0L
24212840, 24214840, 24219491

TSB: 27, 28, 29

Additional Information
ex. stall info, hub type, specialized friction material, or other special information

Year, Make, Model, Engine Size Information
Or other specific information to assist in choosing the proper converter

Technical Service Bulletin Number
Refer to the DNA listing at the end of each section or the index at the rear of the catalog

ID Codes
Found on the converter

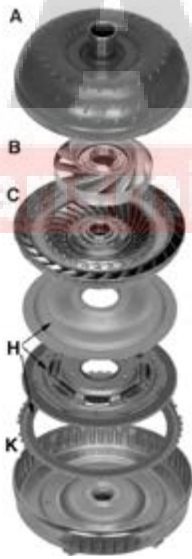
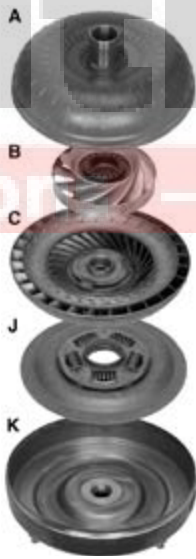
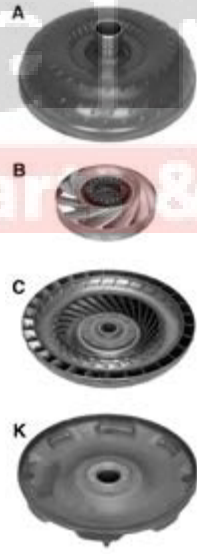
Solutions.
They are in our DNA.

Transtar's DNA – Driveline Needs Assessment – is a completely new philosophy of torque converter analysis. Drawn from both OE and Aftermarket information, Transtar's DNA information takes the symptoms that you may be seeing in the transmission (such as overheating, shudder, poor lock up, slippage and NVA), and produces all known solutions to improve torque converter performance. Transtar's DNA information covers both domestic and import transmissions through 2012.

What does this mean to you? It means that in this catalog you have access to this information at your fingertips, steering you away from symptoms and toward a true solution for many transmission malfunctions.

LOCKUP & NON LOCKUP

Lock Up and Non Lock Up Converters				Lockup
				
Lock Up Captive Clutch	Lock Up Centrifugal Clutch	Lock Up Clutch Pack	Lock Up Damper Drive	

			Legend:
			<p>A: Impeller (Primary)</p> <p>B: Stator</p> <p>C: Turbine</p> <p>D: Captive Clutch</p> <p>E: Centrifugal Clutch</p> <p>F: Clutch Pack</p> <p>G: Damper Drive</p> <p>H: Multi Friction Clutch</p> <p>J: Piston (Single Friction)</p> <p>K: Front Cover</p>
Lock Up Multi Friction Clutch	Lock Up Piston (Single Friction Clutch)	Non Lock Up	

GM INTRODUCTION











GM Introduction

General Motors

			
4T80E Non Viscous GM84 (Note the angle of the line)	4T80E Viscous GM86 (Note the angle of the line)	Allison 1000 OE Cover A7 (Replaced by A7X)	Allison 1000 Billet Cover A7X (Replaces A7)
			GM identifies many of their units as 245 mm, 258 mm, 298 mm, 300 mm, etc. This is NOT the outer diameter of the converter! This is the internal measurement of the impeller which cannot be measured without cutting the unit open.
Cooling Shroud	Hub - Flanged	Hub - Non Flanged	MM Info - 298 etc Outer Diameter of the Impeller
			
Turbine	Pad - GM 245 mm Rwd	Pad - GM 245 mm Fwd (Exc 245 mm Fwd Viscous Clutch)	Pad - GM 258 mm Fwd (Also 245 mm Fwd Viscous Clutch)
			
Pad - GM 280 & 300 mm Rwd	Pad - GM 298 mm RWD Rectangular	Pad - GM 298 mm RWD Round	Shaft - 245 mm Rwd & 06-Up 4L70E 298mm RWD
			
Shaft - 280 & 300 mm Rwd	Shaft - 298 mm (27 Spline)	Shaft - 298 mm (30 Spline)	Sticker - Fwd (FLTV)

GM

125, 125C, 3T40

 	GM14 DIA. (BOLT CIRCLE) 11" (9.75") NOTES Non Lock Up Med. Stall Replaces 6 Pad GM22	PILOT .824"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1980-82 Gas & Diesel
 	GM63 DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Lock Up 1400-1475 Stall	PILOT .824"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1982-01 3.3L, 3.8L, 4.3L FH, FY, FH5, FY4B, FY5, FY5B, FY6B, FY7, FY7B, FY9B, FYAB
 	GM71 DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Lock Up 1500-1750 Stall Replaces Viscous GM77	PILOT .824"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1982-01 2.3L, 2.4L, 3.1L, 3.3L, 3.4L, 3.8L FG, FL, FM, FG9B, FGAB, FL4B, FL8C, FL9B, FLDB, FM4, FM5, FM7, FM8C, FM9, FM4B, FM9B
 	GM42 DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Lock Up 1800-2200 Stall	PILOT .824"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1982-01 1.8L, 2.0L, 2.2L, 2.3L, 2.5L, 2.8L, 3.0L, 3.1L, 3.4L, 3.8L FD, FE, FJ, FD2B, FD4B, FD6B, FDAB, FDEB, FE4B, FJ2B, FJ4B, FJ9B, FJAB, FJBB
 	GM73 DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Lock Up 2300-2900 Stall FZCB = GM73C	PILOT .824"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1982-01 1.8L, 2.0L, 2.2L, 2.3L, 2.4L, 2.5L, 2.8L FA, FB, FC, FK, FZ, FA4B, FAAB, FACB, FB2B, FB4B, FBAB, FK1B, FKBB, FZ1B, FZ2B (FZBB/FZRB = GM67)

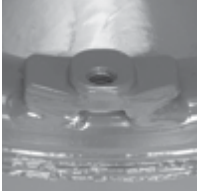
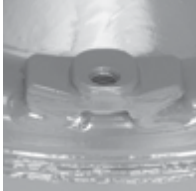

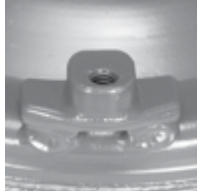
GM

GM

180, 180C, 3L30




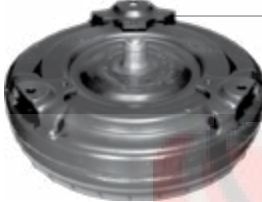








GM

	GM13	DIA. (BOLT CIRCLE) 9.5" (9.75")	PILOT 1.062"	SPLINES 22	MOUNT 3 Pads
	NOTES Non Lock Up Welded Nut on Pad	APPLICATION CODES 1977-80 Chevette, T1000 1.4L, 1.6L			
	GM17	DIA. (BOLT CIRCLE) 10" (9.75")	PILOT .825"	SPLINES 27	MOUNT 3 Pads
	NOTES Clutch Omitted Uses Bolts Only	APPLICATION CODES 1980-82 Chevette, T1000 1.6L SAO			
	GM25	DIA. (BOLT CIRCLE) 10" (9.75")	PILOT .825"	SPLINES 27	MOUNT 3 Pads
	NOTES Lock Up .565" Tall Pads	APPLICATION CODES 1981-85 Chevette 1.6L, 1.8L SA1, SJAJ, SJCJ, 24200140			
	GM83	DIA. (BOLT CIRCLE) 10.25" (8")	PILOT .825"	SPLINES 27	MOUNT 3 Pads
	NOTES Lock Up High Stall .715" Tall Pads	APPLICATION CODES 1989-98 Sidekick, Tracker 1.6L SP1U, SP1V, 8682088, 96012140, 96012117, 96012187, 9212140, 24210141			
	GM85	DIA. (BOLT CIRCLE) 10" (9.75")	PILOT .825"	SPLINES 27	MOUNT 3 Pads
	NOTES Lock Up High Stall .925 Tall Pads	APPLICATION CODES 1994-02 Passport, 91-03 Rodeo, 90-02 Trooper, 96-99 Acura SLX SFHE, SFHT, SFLT, 8681486, 24200145			

To ID the 180 Pads				
	GM17	GM25	GM83	GM85

GM

200 NON LOCK UP, 325

 	GM10 DIA. (BOLT CIRCLE) 10" (9.8") NOTES Non Lock Up 2500-2700 Stall Uses Nuts & Bolts	PILOT 1.085"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1976-82 TH200 Chevette 4 Cyl.
 	GM12 DIA. (BOLT CIRCLE) 11" (10") NOTES Non Lock Up 1800-2200 Stall Uses Nuts & Bolts	PILOT 1.085"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1976-82 TH200 LUV & Chevy 4 Cyl. (Exc. Chevette 4 Cyl.)
 	GM9 DIA. (BOLT CIRCLE) 12.75" (11") NOTES Non Lock Up Uses Nuts & Bolts Can Use GM11 w/ Correct Bolts	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1976-78 TH200 Chevy 6 & 8 Cyl.
 	GM11 DIA. (BOLT CIRCLE) 12.75" (11") NOTES Non Lock Up Uses Bolts Only Can Use GM9 w/ Correct Bolts	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1976-78 TH200 Buick, Pontiac, Olds
 	GM3 DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1300-1500 Stall 3 Rows of Ribs	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1979-81 TH325
 	GM3H DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1750-2000 Stall 2 Rows of Ribs	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1979-81 TH325

GM




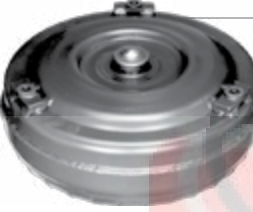



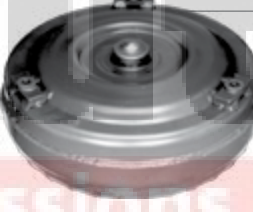


GM

200C, 200-4R, 325-4L

GM	 	GM58HD DIA. (BOLT CIRCLE) 10.2" (9.875") NOTES Lock Up 1800-2100 Stall Built w/ Flanged Hub	PILOT .825"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1979-87 2.8L Exc. Camaro, 2.6L, 3.1L, 3.4L, 3.8L HD2, HE9D, HJ2, HJAD, HL9D
	 	GM61HD DIA. (BOLT CIRCLE) 10.2" (9.875") NOTES Lock Up 2300-2800 Stall Built w/ Flanged Hub	PILOT .825"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1979-87 2.8L Camaro, 1.8L, 1.9L, 2.0L, 2.5L HB1, HB2, HA1, HK1, HZ2, HZAD
	 	GM15AL DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1400-1600 Stall	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1981-90 Most Trucks & Vans, Some Diesels CG, CG3C, CK
	 	GM15ALF DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1400-1600 Stall Brazed GM15AL Replaces 6 Pad GM23	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1981-90 5.7L Diesel, 6.2L Diesel CG, CG3C, CK
	 	GM15 DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1600-1800 Stall	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1981-90 Most Cars Exc. HP CE, CE4C, CF, CF4C (Not CF9C)
	 	GM15AF DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1600-1800 Stall Brazed GM15	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1981-90 Most Cars Exc. HP CE, CE4C, CF, CF4C (Not CF9C)

GM

200C, 200-4R, 325-4L

 	GM15AH DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1800-2000 Stall	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1981-90 Turbo, Camaro, Corvette, HP CB, CB4C, CB5C, CF9C
 	GM15S DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1600-1800 Stall Static Open	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1981-90 Cadillac 4.1L, 4.5L, DFI CE3C
 	GM19 DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up w/ Poppet Valve 1400-1600 Stall	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1981-90 5.7L Diesel, 6.2L Diesel 1R6, 1R7
 	GM150 DIA. (BOLT CIRCLE) 12" (10.7") NOTES Clutch Omitted 1600-1800 Stall	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES Dummy Lock Up CE, CE3C, CE4C, CF, CF4C, CF9C
 	GM15-HP DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1800-2200 Stall Built w/ Flanged Hub	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES High Performance CB

GM

GM

350 NON LOCK UP

GM	 	GM4401 DIA. (BOLT CIRCLE) 12.5" (10.7") NOTES Non Lock Up 1400-1600 Stall Includes Converter Bolts	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, Bolts Only APPLICATION CODES 1969-79 Replaces GM1A & GM350 (350 Conversion Unit)
	 	GM1A DIA. (BOLT CIRCLE) 12.5" (10.7") NOTES Non Lock Up Replace w/ GM4401 350 Conversion Unit 1600-1800 Stall For HD - Use GM1AHD	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, Bolts Only APPLICATION CODES 1969-79 Buick, Pontiac, Olds
	 	GM350 DIA. (BOLT CIRCLE) 12.5" (10.7") NOTES Non Lock Up Replace w/ GM4401 350 Conversion Unit 1400-1600 Stall For HD - Use GM350F	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, Nuts & Bolts APPLICATION CODES 1969-79 Chevrolet
	 	GM8 DIA. (BOLT CIRCLE) 12.5" (10.7") NOTES Non Lock Up 1400-1600 Stall	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads, Bolts Only APPLICATION CODES 1969-79 Checker Cab
	 	GM3 DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1300-1500 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, Bolts Only APPLICATION CODES 1969-79 Chevrolet

GM

350 NON LOCK UP

 	PG10 DIA. (BOLT CIRCLE) 10.75" (10") NOTES Non Lock Up 2200-2400 Stall Cooling Shroud	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, Nuts & Bolts APPLICATION CODES 1972-75 Vega, Monza 4 & 6 Cyl.
 	PG11 DIA. (BOLT CIRCLE) 11.75" (10.5") NOTES Non Lock Up 1600-1800 Stall Cooling Shroud	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, Nuts & Bolts APPLICATION CODES 1973-77 Vega, Monza 4 Cyl.
 	GM350HP-10 DIA. (BOLT CIRCLE) 10" (10.7"/11.5") NOTES Non Lock Up 3000-3400 Stall Dual Bolt Pattern	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, Nuts & Bolts APPLICATION CODES High Performance (Will Work on TH400)
 	GM350HP-11 DIA. (BOLT CIRCLE) 11" (10.7") NOTES Non Lock Up 2200-2600 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, Nuts & Bolts APPLICATION CODES High Performance (Will Work on TH400)
 	GM350HP-12 DIA. (BOLT CIRCLE) 12.5" (10.7") NOTES Non Lock Up 1800-2200 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, Nuts & Bolts APPLICATION CODES High Performance (Will Work on TH400)

GM













GM

350C LOCK UP

GM	 	GM16AL DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1400-1600 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1980-86 Most Trucks, Vans, Diesels BG, BG4C, BG8D, L7, M7, P6
	 	GM16 DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1600-1800 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1980-86 Most Cars Exc. HP BE, BE4C, BE4D, BE8D, BE8F, BF, BF4C
	 	GM16AH DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1800-2000 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1980-86 Turbo, Camaro, Corvette, HP BB, BB4C, BB4D, BB8D, BB8F
	 	GM20F DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up w/ Poppet Valve 1400-1600 Stall Furnace Brazed	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1980-86 5.7L Diesel, 6.2L Diesel 1R6, 1R7, BG9D, BH9D
	 	GM16AF DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1400-1600 Stall Furnace Brazed Replaces 6 Pad GM30	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1980-86 BG, BG4C, BG8D, L7, M7, P6
	 	GM160 DIA. (BOLT CIRCLE) 12" (10.7") NOTES Clutch Omitted 1600-1800 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1980-86 Clutch Omitted BE, BE4C, BE4D, BE8D, BE8F, BF, BF4C

GM




400, 3L80 (3 PAD)

 	GM3 DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1300-1500 Stall 3 Rows of Ribs	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1968-Up Exc. Jaguar
 	GM3-HD DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1350-1500 Stall Flanged Hub Heavy Duty Bearing	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES Do Not Use With Allison's
 	GM3R-HD DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1350-1500 Stall Regular Hub Heavy Duty Bearing	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES Do Not Use With Allison's
 	GM3H DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1750-2000 Stall 2 Rows of Ribs	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1968-Up Exc. Jaguar
 	JA7 DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1500-1700 Stall 2 or 3 Rows of Ribs	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1968-Up Jaguar
 	GM2 DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up Variable Pitch 1350-1500 Stall 3 Rows of Ribs	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES 1964-67 w/ Variable Pitch Stator

GM







GM

400, 3L80 (6 PAD)

GM		GM6	DIA. (BOLT CIRCLE) 13" (11.5")	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads
		NOTES Non Lock Up 1300-1500 Stall Built w/ Flanged Hub	APPLICATION CODES 1968-Up Exc. Jaguar			
		GM6-HD	DIA. (BOLT CIRCLE) 13" (11.5")	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads
		NOTES Non Lock Up 1300-1500 Stall Flanged Hub Heavy Duty Bearing	APPLICATION CODES Do Not Use With Allison's			
		GM6R-HD	DIA. (BOLT CIRCLE) 13" (11.5")	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads
		NOTES Non Lock Up 1300-1500 Stall Regular Hub Heavy Duty Bearing	APPLICATION CODES Do Not Use With Allison's			
		GM6H	DIA. (BOLT CIRCLE) 13" (11.5")	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads
		NOTES Non Lock Up 1700-1900 Stall 2 Rows of Ribs	APPLICATION CODES 1968-Up Exc. Jaguar			
		JA4	DIA. (BOLT CIRCLE) 13" (11.5")	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads
		NOTES Non Lock Up 1700-1900 Stall 2 or 3 Rows of Ribs	APPLICATION CODES 1968-Up Jaguar 12 Cyl.			

GM

400, 3L80 (HEAVY DUTY)

	GM3-HD DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1350-1500 Stall Flanged Hub Heavy Duty Bearing	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES Do Not Use With Allisons
	GM3R-HD DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1350-1500 Stall Regular Hub Heavy Duty Bearing	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES Do Not Use With Allisons
	GM6-HD DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1300-1500 Stall Flanged Hub Heavy Duty Bearing	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads APPLICATION CODES Do Not Use With Allisons
	GM6R-HD DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1300-1500 Stall Regular Hub Heavy Duty Bearing	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads APPLICATION CODES Do Not Use With Allisons
	A3HD DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1300-1500 Stall Built w/ Flanged Hub	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads APPLICATION CODES Gas & Diesel (Allison or TH400) 270, 275
	A6HD DIA. (BOLT CIRCLE) 13" (11.5") NOTES Non Lock Up 1200-1400 Stall Built w/ Flanged Hub	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads APPLICATION CODES Diesel (Allison or TH400) 290


GM

GM

4L30E

GM

		GM85	DIA. (BOLT CIRCLE) 10" (9.74")	NOTES Non PWM High Stall 1.00" Tall Pilot	PILOT .825"	SPLINES 27	MOUNT 3 Pads, .925" Tall	APPLICATION CODES 1994-02 Passport 3.2L, 91-03 Rodeo 3.2L, 90-02 Trooper 3.2L & 3.5L, 96-99 Acura SLX 3.2L & 3.5L SFHE, SFHT, SFLT, 8681486, 24200145
		GM24	DIA. (BOLT CIRCLE) 10" (9.375")	NOTES Non PWM High Stall 1.55" Tall Pilot	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 1.40" Tall	APPLICATION CODES 1990-92 Trooper 2.2L, 2.6L, 2.8L SELP, SE9P, SFLP, SF6X, SJHS, SJLP, SJ9K, 8680189
		BMW29LS	DIA. (BOLT CIRCLE) 10.1" (9.2")	NOTES Carbon Woven 1900-2100 Stall 1.14" Tall Pilot .930" Tall Pads	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5	APPLICATION CODES 1992-00 328i, 90-99 528i SGHS, SG9S, 24200343, 24210707
		BMW29	DIA. (BOLT CIRCLE) 10.1" (9.2")	NOTES Carbon Woven High Stall 1.14" Tall Pilot	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, .930" Tall	APPLICATION CODES 1992-99 318i, 92-99 325i, 90-95 525i SE9S, SEHS, SJHS, SJLS, SJ9S, SZHS, 8678197, 96041177, 24200322, 24200344, 24211289

 <p>GM87</p>	<p>DIA. (BOLT CIRCLE) 10.2" (9.75")</p> <p>NOTES PWM w/o ECCC Low Carbon 1" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 27</p>	<p>MOUNT 6 Pads, .900" Tall</p> <p>APPLICATION CODES 1994-98 Passport 3.2L, Isuzu 3.2L Including Amigo, Rodeo, Trooper 24210868, 24210869, 24211068, 24211228</p> <p>TSB: 40, 41</p>
 <p>GM87CW</p>	<p>DIA. (BOLT CIRCLE) 10.2" (9.75")</p> <p>NOTES PWM w/ ECCC Carbon Woven 1" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 27</p>	<p>MOUNT 6 Pads, .900" Tall</p> <p>APPLICATION CODES 1999-02 Passport 3.2L, Isuzu 3.5L Including Trooper, Rodeo, Axiom 24211229, 24213406, 24213496</p> <p>TSB: 40, 41</p>
 <p>GM24-6</p>	<p>DIA. (BOLT CIRCLE) 10.25" (9")</p> <p>NOTES PWM Low Stall 1.55" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 27</p>	<p>MOUNT 6 Pads, 1" Tall</p> <p>APPLICATION CODES 1997-98 Catera 3.0L, 94-02 Passport 2.6L SGHB, SGHH, SGHR, H57, 24020031, 24200319, 24210705</p>
 <p>GM24-6H</p>	<p>DIA. (BOLT CIRCLE) 10.25" (9")</p> <p>NOTES PWM High Stall 1.55" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 27</p>	<p>MOUNT 6 Pads, 1" Tall</p> <p>APPLICATION CODES 1999-01 Catera 3.0L, 00-03 Rodeo 2.2L, 2.6L SJHR, 24210708, 24210713, 24210715</p>



GM TH-350 Torque Converter



GM4401 Features:

- Late model impeller turbine & stator used in TH700-R4
- 100% brazed or welded fins
- Heavy duty hardened turbine hub
- Heavy duty CUSTOM impeller hub
- Wider universal pad design – all bolts included
 - Allows this torque converter to replace:
 - The GM350 (Chevrolet apps)
 - GM1A (Buick/Oldsmobile/Pontiac apps)
- Special custom design has been dyno tested to ensure proper and proven performance in GM350 transmissions

GM350/GM1A Phase Out

Rebuildable core disappearing

- Found in old/classic vehicles out of production
- Used in racing applications
- Cores are destroyed upon return
- Multiple poor pad designs
- Older impeller and turbine designs

Solution:

Custom conversion of TH700-R4 torque converter core



Each Recon™ by Transtar Torque Converter is covered by the industry-leading 3-Year, 36,000-Mile Warranty!*

* Recon by Transtar Torque Converter Limited Warranty

** ONLY if your converter does NOT have a sticker, should you refer to this chart. The converters listed have been identified by various sources to "possibly" fit these engine sizes. Please compare every converter listed for each engine size.

200C, 200-4R, 700-R4, 4L60, 4L60E (Non PWM)

10" (245mm) (On/Off Lining)

GM58HD	2.8L (Exc Camaro)	2.6L	2.8L(Some)	3.1L	3.4L	3.8L	
GM61HD	2.8L (Camaro)	1.8L	1.9L	2.0L	2.2L	2.5L	2.8L(Some)
GM59HD *	Replaced by GM58HD*	3.8L					

* GM59 Series with PWM are not replaced by the GM58 Series




12" (298mm) (27 Spline) (On/Off Lining)

GM15	Most Passenger Cars	3.8L	4.1L	4.3L	5.0L	5.7L	
GM15AH	Most Corvettes, Camaros, Turbos	3.8L	4.1L	4.3L	4.4L	4.9L	5.0L
GM15AL	Most Trucks, Vans, Some Diesels	4.3L	5.0L	5.7L			
GM15S	Cadillac 4.1L, 4.5L DFI (Static Open)	4.1L	4.5L				
GM15ALF	5.7L, 6.2L Diesel	5.7L-D	6.2L-D				
GM19	5.7L, 6.2L Diesel (Poppet Valve)	5.7L-D	6.2L-D				

12" (298mm) (30 Spline) (On/Off Lining)

GM18A	Most Passenger Cars	4.3L	5.0L	5.7L			
GM18AH	Most Corvettes, Camaros, Turbos	4.3L					
GM18AL	Most Trucks, Vans, Some Diesels	5.0L	5.7L				
GM18ALF	5.7L, 6.2L Diesel	5.7L-D	6.2L-D				



700-R4, 4L60, 4L60E (245 mm, 280mm)

ID 245 mm & 280 mm			
			
	245 mm Input Shaft	245 mm Pads	280 mm Pads

700-R4, 4L60, 4L60E, 4L65E (298 mm)

298 mm Family	To ID 298 mm Units			
		27 Splines on Input Shaft		
		30 Splines on Input Shaft		
			298 mm Rectangle Pad	298 mm Round Pad

4L60E, 4L65E (300 mm) (See also 280 mm, 298 mm)













	To ID 300 mm Units		
300 mm Family	The pads and input shaft of the 300 mm family are the same as the pads and input shaft of the 280 mm family. 280 mm family include codes VJCX and are listed in the catalog before the 298 mm family.		
		300 mm Input Shaft	300 mm Pads

GM

4L60 (700-R4), 4L60E, 4L65E, 4L70E










		GM58HD	DIA. (BOLT CIRCLE) 10.2" (9.875")	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
		NOTES Non PWM On/Off Lining 1800-2000 Stall Built w/ Flanged Hub	APPLICATION CODES 2.8L Exc. Camaro, 2.6L, 3.1L, 3.4L, 3.8L HD2, HE9D, HJ2, HJAD, HL9D, HY, HY9D			
TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161						
		GM61HD	DIA. (BOLT CIRCLE) 10.2" (9.875")	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
		NOTES Non PWM On/Off Lining 2350-2750 Stall Built w/ Flanged Hub	APPLICATION CODES 2.8L Camaro, 1.8L, 1.9L, 2.0L, 2.5L HA, HB, HK, HZ, HZAD			
TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161						
		GM59CHD	DIA. (BOLT CIRCLE) 10.2" (9.875")	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
		NOTES PWM w/o ECCC Low Carbon 1400-1525 Stall Built w/ Flanged Hub	APPLICATION CODES 3.8L HY, HYHD			
TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161						
		GM58CHD	DIA. (BOLT CIRCLE) 10.2" (9.875")	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
		NOTES PWM w/o ECCC Low Carbon 1800-2000 Stall Built w/ Flanged Hub	APPLICATION CODES 2.6L, Some 2.8L, 3.1L, 3.4L HE, HEHD, HL, HLHD			
TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161						
		GM61CHD	DIA. (BOLT CIRCLE) 10.2" (9.875")	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
		NOTES PWM w/o ECCC Low Carbon 2350-2750 Stall Built w/ Flanged Hub	APPLICATION CODES 1.8L, 1.9L, 2.0L, 2.2L, 2.5L, Some 2.8L HBCD, HBHD, HZHD			
TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161						
		GM59CWHD	DIA. (BOLT CIRCLE) 10.2" (9.875")	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
		NOTES PWM w/ ECCC Carbon Woven 1400-1525 Stall Built w/ Flanged Hub	APPLICATION CODES 3.8L HYQD			
TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161						

4L60 (700-R4), 4L60E, 4L65E, 4L70E


 	GM58CWHD DIA. (BOLT CIRCLE) 10.2" (9.875") NOTES PWM w/ ECCC Carbon Woven 1800-2000 Stall Built w/ Flanged Hub	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2.6L, Some 2.8L, 3.1L, 3.4L, Also 03-11 2.8L, 2.9L Colorado & Canyon) HLQD, 242169407, 24227093 TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161
 	GM61CWHD DIA. (BOLT CIRCLE) 10.2" (9.875") NOTES PWM w/ ECCC Carbon Woven 2350-2750 Stall Built w/ Flanged Hub	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 1.8L, 1.9L, 2.0L, 2.2L, 2.5L, Some 2.8L HBFD, 24207200 TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161
 	GM56 DIA. (BOLT CIRCLE) 10.6" (9.7") NOTES PWM w/ ECCC Carbon Woven Med. Stall	PILOT .825"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 2003-11 Colorado & Canyon 3.5L, 3.7L, Hummer w/ 2.8L, 3.5L (2.8L, 2.9L Colorado & Canyon Use GM58CWHD) 24216770, 24238404, 24238504 TSB: 4, 5, 12, 13, 18, 81, 82, 84, 86, 88, 89, 161
 	GM95 DIA. (BOLT CIRCLE) 10.75" (10.75") NOTES PWM w/ ECCC Carbon Woven Low Stall	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 2005-06 Astro, Safari 4.3L 24227628, LuK logo TSB: 4, 5, 12, 16, 18, 81, 82, 84, 86, 88, 89, 161
 	GM93 DIA. (BOLT CIRCLE) 10.78" (10.75") NOTES Carbon Woven Low Stall	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2008-09 Trailblazer 4.2L 4wd 24241978 TSB: 4, 5, 81, 82
 	GM46 DIA. (BOLT CIRCLE) 10.815" (9.75") NOTES Carbon Woven Low Stall	PILOT .825"	SPLINES 30	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2005-12 Silverado 5.3L Hybrid 24216771 TSB: 4, 5, 81, 82

GM

4L60 (700-R4), 4L60E, 4L65E, 4L70E

GM	 	GM15AL DIA. (BOLT CIRCLE) 12" (10.7") NOTES Non PWM 1400-1600 Stall For Brazed, Use GM15ALF	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES Most Trucks, Vans & Diesels CG, CG3C, CG5E TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161
	 	GM15ALF DIA. (BOLT CIRCLE) 12" (10.7") NOTES Lock Up 1400-1600 Stall Brazed GM15AL Replaces 6 Pad GM23	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1981-90 5.7L Diesel, 6.2L Diesel CG, CG3C, CK
	 	GM15 DIA. (BOLT CIRCLE) 12" (10.7") NOTES Non PWM 1600-1800 Stall For Brazed, Use GM15AF	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES Most Cars Exc. HP CE, CE3C, CE4C, CF, CF4C, CF9C TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161
	 	GM15AH DIA. (BOLT CIRCLE) 12" (10.7") NOTES Non PWM 1800-2000 Stall For Brazed, Use GM15AHF	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES Turbo, Camaro, Corvette, HP CB, CB4C, CB5C TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161
	 	GM15-HP DIA. (BOLT CIRCLE) 12" (10.7") NOTES Non PWM 1800-2200 Stall Built w/ Flanged Hub	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES High Performance CB, CB4C, CB5C TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161
	 	GM150 DIA. (BOLT CIRCLE) 12" (10.7") NOTES Clutch Omitted 1600-1800 Stall	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES Dummy Lock Up CE, CE3C, CE4C, CF, CF4C, CF9C TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

4L60 (700-R4), 4L60E, 4L65E, 4L70E

	GM18AL DIA. (BOLT CIRCLE) 12" (10.7") NOTES Non PWM On/Off Lining 1400-1600 Stall For Brazed, Use GM18ALF	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES Most Trucks, Vans & Diesels DG5F, DGAF, DGAG, DK5E, DK5F TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161
	GM18A DIA. (BOLT CIRCLE) 12" (10.7") NOTES Non PWM On/Off Lining 1600-1800 Stall For Brazed, Use GM18AF	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES Most Cars Exc. HP DE5F, DE8F, DEAF, DEBF, DF5F, DL5F, DL8F, DFAF TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161
	GM18AH DIA. (BOLT CIRCLE) 12" (10.7") NOTES Non PWM On/Off Lining 1800-2000 Stall For Brazed, Use GM18AHF	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES Turbo, Camaro, Corvette, HP DB8F, DBAF, DC8F, DCAF TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161
	GM18A-HP DIA. (BOLT CIRCLE) 12" (10.7") NOTES Non PWM On/Off Lining 1800-2200 Stall Built w/ Flanged Hub	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES High Performance DB8F, DBAF, DC8F, DCAF TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161
	GM180A DIA. (BOLT CIRCLE) 12" (10.7") NOTES Clutch Omitted 1600-1800 Stall Dummy Lock Up	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES Most Cars Exc. HP DE5F, DE8F, DEAF, DEBF, DF5F, DL5F, DL8F, DFAF TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161
	GM180AH DIA. (BOLT CIRCLE) 12" (10.7") NOTES Clutch Omitted 1800-2000 Stall Dummy Lock Up	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads APPLICATION CODES Turbo, Camaro, Corvette, HP DB8F, DBAF, DC8F, DCAF TSB: 4, 5, 12, 14, 18, 80, 81, 82, 83, 85, 88, 89, 90, 161

GM

4L60 (700-R4), 4L60E, 4L65E, 4L70E

GM		GM33 DIA. (BOLT CIRCLE) 12" (10.7") NOTES PWM w/o ECCC Low Carbon 1400-1600 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads	APPLICATION CODES Most Trucks, Vans & Diesels DGHF, DGHG, DHHF, DHHG, DGAf, DGCF, DGCG, DGHF, DGHC, DG5C, DG5F, DE6F, DKAF, DKGF, DKHF, DKLF, DHPF TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161
		GM35 DIA. (BOLT CIRCLE) 12" (10.7") NOTES PWM w/o ECCC Low Carbon 1600-1800 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads	APPLICATION CODES Most Cars Exc. HP DCLF, DELF, DFLF, DF5F, DF6F, DFLF, DLLF TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161
		GM31 DIA. (BOLT CIRCLE) 12" (10.7") NOTES PWM w/o ECCC Low Carbon 1800-2000 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads	APPLICATION CODES Turbo, Camaro, Corvette, HP DBHC, DBAF, DBCF, DBLF TSB: 4, 5, 12, 13, 14, 18, 80, 81, 82, 83, 84, 86, 88, 89, 90, 161
		GM33CW DIA. (BOLT CIRCLE) 12" (10.7") NOTES PWM w/ ECCC Carbon Woven 1400-1600 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads	APPLICATION CODES Most Trucks, Vans & Diesels DGGF, DGPF, DHDF, DHHG, DHPF, DHPG, DKNF, DKPF, DLPH TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161
		GM35CW DIA. (BOLT CIRCLE) 12" (10.7") NOTES PWM w/ ECCC Carbon Woven 1600-1800 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads	APPLICATION CODES Most Cars Exc. HP DCNF, DLNF, DLPF, 24210922 TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161
		GM31CW DIA. (BOLT CIRCLE) 12" (10.7") NOTES PWM w/ ECCC Carbon Woven 1800-2000 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads	APPLICATION CODES Turbo, Camaro, Corvette, HP DBNF TSB: 4, 5, 12, 13, 14, 18, 81, 82, 84, 86, 88, 89, 161

4L60 (700-R4), 4L60E, 4L65E, 4L70E

 	GM55 DIA. (BOLT CIRCLE) 12" (11") NOTES Carbon Woven 280mm 1800-2000 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2002-07 Envoy, Trailblazer 4.2L JCXB, VJCK, VJCX, 24215557, 24224075, 24228392, 24228708, 24238578, 24240603 TSB: 4, 5, 12, 15, 18, 81, 82, 84, 85, 87, 88, 89, 161
 	GM54 DIA. (BOLT CIRCLE) 12.5" (9.25") NOTES Carbon Woven Low Stall 06-07 Corvette See 6L80E	PILOT 1.703"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2005 Corvette 6.0L TMBV, 24229277 TSB: 4, 5, 12, 13, 15, 18, 81, 82, 84, 85, 87, 88, 89, 161
 	GM90 DIA. (BOLT CIRCLE) 12.5" (11") NOTES Carbon Woven 300mm 1600-1800 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 1998-05 4.3L, Some 4.8L TLBX, TLCX, TLTX, TXBX, 24206636, 24213391, 24213392, 24212423 TSB: 4, 5, 12, 15, 18, 81, 82, 84, 85, 87, 88, 89, 161
 	GM92 DIA. (BOLT CIRCLE) 12.5" (11") NOTES Carbon Woven 300mm 1400-1600 Stall	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 1998-07 3.4L, Some 4.8L, 5.3L, 5.7L, 6.0L exc Corvette TMAX, TMBX, TWBX, 24206642, 24208325, 24210919, 24213393, 24227088 TSB: 4, 5, 12, 13, 15, 18, 81, 82, 84, 85, 87, 88, 89, 161

GM

4L80E, 4L85E




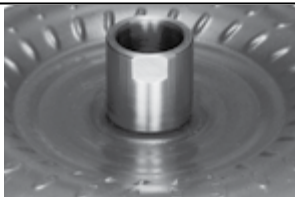

GM

	GM81	DIA. (BOLT CIRCLE) 13.75" (11.5")	PILOT 1.703"	SPLINES 35	MOUNT 6 Pads
	NOTES Stock Clutch Piston 1800-2000 Stall 2.05" Hub Height GM81 w/ Flanged Hub Can Replace GM88	APPLICATION CODES 1991-97 w/ 6.5L, 7.4L 1SA0, 1SA1, 194, 492, 528, 576, 606, 675, 849, 8676528, 8682606, 8683670, 8683671, 8683675, 24202989, 24202990, 24202991, 24217609 TSB: 3, 47, 48, 49, 148, 149			
	GM81-BP	DIA. (BOLT CIRCLE) 13.75" (11.5")	PILOT 1.703"	SPLINES 35	MOUNT 6 Pads
	NOTES Billet Clutch Piston 1800-2000 Stall 2.05" Hub Height	APPLICATION CODES 1991-97 w/ 6.5L, 7.4L 1SA0, 1SA1, 194, 492, 528, 576, 606, 675, 849, 8676528, 8682606, 8683670, 8683671, 8683675, 24202989, 24202990, 24202991, 24217609 TSB: 3, 47, 48, 49, 148, 149			
	GM82	DIA. (BOLT CIRCLE) 13.75" (11.5")	PILOT 1.703"	SPLINES 35	MOUNT 6 Pads
	NOTES Stock Clutch Piston 2200-2400 Stall 2.05" Hub Height GM82 w/ Flanged Hub Can Replace GM88H	APPLICATION CODES 1991-97 w/ 4.3L, 5.7L, 6.2L 1SB1, 19B1, 193, 366, 526, 604, 8676526, 8682604, 8690903, 24202992, 24202993, 24210693 TSB: 3, 47, 48, 49, 148, 149			
	GM82-BP	DIA. (BOLT CIRCLE) 13.75" (11.5")	PILOT 1.703"	SPLINES 35	MOUNT 6 Pads
	NOTES Billet Clutch Piston 2200-2400 Stall 2.05" Hub Height	APPLICATION CODES 1991-97 w/ 4.3L, 5.7L, 6.2L 1SB1, 19B1, 193, 366, 526, 604, 8676526, 8682604, 8690903, 24202992, 24202993, 24210693 TSB: 3, 47, 48, 49, 148, 149			

GM

4L80E, 4L85E

 	GM88 DIA. (BOLT CIRCLE) 13.75" (11.5") NOTES Stock Clutch Piston 1800-2000 Stall 2.65" Hub Height GM88 Can Replace GM81	PILOT 1.703"	SPLINES 35	MOUNT 6 Pads APPLICATION CODES 1998-Up w/ 6.5L, 7.4L 24202989, 24210827, 24210828, 24210829, 24210862, 24211407, 24217236, 24217328, 24217609, 2419327, 24219329, 24228538, 24240863 TSB: 3, 47, 48, 49, 148, 149
 	GM88-BP DIA. (BOLT CIRCLE) 13.75" (11.5") NOTES Billet Clutch Piston 1800-2000 Stall 2.65" Hub Height	PILOT 1.703"	SPLINES 35	MOUNT 6 Pads APPLICATION CODES 1998-Up w/ 6.5L, 7.4L 24202989, 24210827, 24210828, 24210829, 24210862, 24211407, 24217236, 24217328, 24217609, 2419327, 24219329, 24228538, 24240863 TSB: 3, 47, 48, 49, 148, 149
 	GM88H DIA. (BOLT CIRCLE) 13.75" (11.5") NOTES Stock Clutch Piston 2200-2400 Stall 2.65" Hub Height GM88H Can Replace GM82	PILOT 1.703"	SPLINES 35	MOUNT 6 Pads APPLICATION CODES 1998-Up w/ 4.8L, 6.0L 364, 830, 12491334, 17803871, 24210825, 24210830, 24210831, 24217235, 24217364, 24219303, 24219326, 24219328, 24219330, 24227936 TSB: 3, 47, 48, 49, 148, 149
 	GM88H-BP DIA. (BOLT CIRCLE) 13.75" (11.5") NOTES Billet Clutch Piston 2200-2400 Stall 2.65" Hub Height	PILOT 1.703"	SPLINES 35	MOUNT 6 Pads APPLICATION CODES 1998-Up w/ 4.8L, 6.0L 364, 830, 12491334, 17803871, 24210825, 24210830, 24210831, 24217235, 24217364, 24219303, 24219326, 24219328, 24219330, 24227936 TSB: 3, 47, 48, 49, 148, 149

	To ID 4L80E Units			
4L80E ID Information	Measure the Hub Height and determine if it is 2.05" or 2.65". Then check the fin angle for Low or High Stall.			
			Measure Hub Length	4L80E Pads
	Units with this plate can be replaced by non-plated converters.			
4L80E ID Information		Some Units Have a Plate	2.05" Hub	2.65" Hub

GM

4T40E, 4T45E

GM

		GM63CW	DIA. (BOLT CIRCLE) 10.2" (9.35")	PILOT .824"	SPLINES 27	MOUNT 3 Pads
		NOTES Carbon Woven 1400-1475 Stall	APPLICATION CODES 3.1L Sunfire FH, FY, FYHB, 24208476			
		TSB: 30, 31				
		GM71CW	DIA. (BOLT CIRCLE) 10.2" (9.35")	PILOT .824"	SPLINES 27	MOUNT 3 Pads
		NOTES Carbon Woven 1500-1750 Stall	APPLICATION CODES 3.1L Achieva, 3.4L Alero, Grand Am, All 3.5L FG, FL, FM, FGHB, FGKB, FLHB, FLQB, 24212743, 24222019, 24222784, 24224255, 24222789, 24227094			
		TSB: 30, 31				
		GM42CW	DIA. (BOLT CIRCLE) 10.2" (9.35")	PILOT .824"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
		NOTES Carbon Woven 1800-2200 Stall	APPLICATION CODES 3.4L Malibu, 2.4L Saturn Aura Hybrid, 2.4L G6 FD, FE, FJ, FDQB, 24235591, 24241866			
		TSB: 30, 31				
		GM73CW	DIA. (BOLT CIRCLE) 10.2" (9.35")	PILOT .824"	SPLINES 27	MOUNT 3 Pads
		NOTES Carbon Woven 2300-2900 Stall	APPLICATION CODES All 1.6L, 2.0L, 2.2L, 2.3L, & 2.4L Except G6 & Aura FA, FB, FC, FK, FZ, FBFB, FZFB, 24211330, 24241866 (FZBB & FZRB = GM67, FZCB = GM73C)			
		TSB: 30, 31				
		GM94	DIA. (BOLT CIRCLE) 10.2" (9.5")	PILOT .824"	SPLINES 27	MOUNT 3 Pads
		NOTES Lock Up 1600-1800 Stall	APPLICATION CODES All 3.0L Including 2000-05 Saturn L Series FLKF, 24208326			
		TSB: 30, 31				

GM STICKER CODES

The four digit codes start with a letter. This code is "FLTV". The 1st digit "F" indicates Fwd or Rwd. The 2nd digit "L" indicates the approximate stall speed and the approximate "K Factor". The 3rd digit "T" indicates the type of clutch damper plate and the type of friction material. The 4th digit indicates the type of front cover by bolt pattern, Fwd or Rwd and the transmission type. If the converter has been rebuilt before, do not rely on the fin angle or the sticker for identification. In the remanufacturing process, covers and impellers can be mixed and matched.



GM STICKERS

"FLTV"

First Digit: Fwd / Rwd	Second Digit: (Approximates)	Third Digit: Damper, Friction Material	Fourth Digit: Bolt Circle, Trans Type
F: Fwd 245 mm 125C, 440-T4, 4T60E etc H: Rwd 245 mm 200C, 700-R4, 4L60E etc 1.750" Hub Diameter J: Fwd 258 mm Some 4T65E S: Rwd 245 mm 180C, 4L30E 1.875" Hub Diameter	A: 2800 Stall, 240 K Factor B: 2600 Stall, 220 K Factor C: 2400 Stall, 205 K Factor D: 2100 Stall, 180 K Factor E: 1900 Stall, 160 K Factor F: 1700 Stall, 148 K Factor G: 1600 Stall, 140 K Factor H: 1500 Stall, 130 K Factor J: 2100 Stall, 176 K Factor K: 2800 Stall, 236 K Factor L: 1900 Stall, 164 K Factor M: 1500 Stall, 131 K Factor N: 2200 Stall, 188 K Factor P: 2800 Stall, 241 K Factor W: 1900 Stall, 167 K Factor Y: 1400 Stall, 122 K Factor Z: 2400 Stall, 203 K Factor	O: Clutch Omitted, NF 1: LD Spring Damper, PF 2: MD Spring Damper, PF 4: HD Spring Damper, PF 5: Spring Damper, CRV, PF 6: MD Spring Damper, PF 7: Spring Damper, CRV, PF 8: Viscous Clutch, PF 9: HD Spring Damper, PF A: MD Spring Damper, PF B: Spring Damper, CRV, PF C: LD Spring Damper, PF D: Various, PF & LCC E: HD Spring Damper, LCC F: Various, PF, LCC & WC G: MD Spring Damper, PF H: HD Spring Damper, PF 1991-95 H: HD Spring Damper, LCC or WC 1996-UP K: HD Spring Damper, LCC or WC L: HD Spring Damper, PF M: HD Spring Damper, PF P: HD Spring Damper, LCC Q: HD Spring Damper, PF or LCC R: Spring Damper, CRV, PF T: HD Spring Damper, WC V: HD Spring Damper, WC W: HD Spring Damper, WC Y: HD Spring Damper, WC Z: HD Spring Damper, WC	A: Fwd Opel B: Fwd 125C, 4T40/45E, 4T60/65E 237 MM Bolt Circle C: Fwd Viscous Clutch D: Rwd 4L60/60E 248 mm Bolt Circle E: Rwd 180, 180C 237 mm Bolt Circle F: Rwd 180, 180C 237 mm Bolt Circle G: Rwd 180, 180C 248 mm Bolt Circle H: Rwd 180, 180C 248 mm Bolt Circle J: Rwd 180, 180C 248 mm Bolt Circle K: Rwd 4L30E 237 mm Bolt Circle M: Fwd 4T65E 248 mm Bolt Circle N: Rwd 180, 180C 237 mm Bolt Circle P: Rwd 4L30E 237 mm Bolt Circle R: Rwd 4L30E S: Rwd 4L30E 237 mm Bolt Circle BMW w/ 1.275" Pilot T: Rwd 4L30E U: Rwd 180, 180C 208 mm Bolt Circle V: Fwd 4T65E Volvo 6 Pad W: Rwd 4L30E X: Rwd 180, 180C, 4L30E Z: Rwd 180, 180C, 4L30E

A


Transmissions

Parts

Service

Legend:
Fwd: Front Wheel Drive
CRV: Coast Relief Valve
HD: Heavy Duty
LD: Light Duty
MD: Medium Duty
PF: Paper Friction Material
LCC: Paper w/ Low Carbon
Rwd: Rear Wheel Drive
WC: Woven Carbon

Friction Material
Top = Woven Carbon
Mid = Paper w/ Low Carbon
Bottom = Paper















GM

4T60 (440-T4), 4T60E, 4T65E

GM		GM63 DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Lock Up 1400-1475 Stall	PILOT .824"	SPLINES 27	MOUNT 3 Pads
			APPLICATION CODES 1984-93 3.3L, 3.8L, 4.3L FH, FY, FH5, FY4B, FY5, FY5B, FY6B, FY7, FY7B, FY9B, FYAB TSB: 105		
		GM71 DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Lock Up 1500-1750 Stall Replaces Viscous GM77	PILOT .824"	SPLINES 27	MOUNT 3 Pads
			APPLICATION CODES 1984-93 2.3L, 2.4L, 3.1L, 3.3L, 3.4L, 3.8L FG, FL, FM, FG9B, FGAB, FL4B, FL8C, FL9B, FLDB, FM4, FM5, FM7, FM8C, FM9, FM4B, FM9B TSB: 105		
		GM42 DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Lock Up 1800-2200 Stall	PILOT .824"	SPLINES 27	MOUNT 3 Pads
			APPLICATION CODES 1984-93 1.8L, 2.0L, 2.2L, 2.3L, 2.5L, 2.8L, 3.0L, 3.1L, 3.4L, 3.8L FD, FE, FJ, FD2B, FD4B, FD6B, FDAB, FDEB, FE4B, FJ2B, FJ4B, FJ9B, FJAB, FJBB TSB: 105		
		GM73 DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Lock Up 2300-2900 Stall FZCB = GM73C	PILOT .824"	SPLINES 27	MOUNT 3 Pads
			APPLICATION CODES 1984-93 1.8L, 2.0L, 2.2L, 2.3L, 2.4L, 2.5L, 2.8L FA, FB, FC, FK, FZ, FA4B, FAAB, FACB, FB2B, FB4B, FBAB, FK1B, FKBB, FZ1B, FZ2B (FZBB/FZRB = GM67) TSB: 105		
		GM63C DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Low Carbon Content 1400-1475 Stall	PILOT .824"	SPLINES 27	MOUNT 3 Pads
			APPLICATION CODES 3.3L, 3.8L, 4.3L FH, FY, FH5, FY4B, FY5, FY5B, FY6B, FY7, FY7B, FY9B, FYAB TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165		
		GM71C DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Low Carbon Content 1500-1750 Stall	PILOT .824"	SPLINES 27	MOUNT 3 Pads
			APPLICATION CODES 2.3L, 2.4L, 3.1L, 3.3L, 3.4L, 3.8L FG, FL, FM, FGHB, FGKB, FLHB, FLQB, 24212743, 24222019, 24222784, 24224255, 24222789, 24227094 TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165		

GM

4T60 (440-T4), 4T60E, 4T65E







 	GM42C DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Low Carbon Content 1800-2200 Stall	PILOT .824"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1.8L, 2.0L, 2.2L, 2.3L, 2.5L, 2.8L, 3.0L, 3.1L, 3.4L, 3.8L FD, FE, FJ, FDHB, FDKB, FJHB TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165
 	GM73C DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Low Carbon Content 2300-2900 Stall	PILOT .824"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1.8L, 2.0L, 2.2L, 2.3L, 2.4L, 2.5L, 2.8L FA, FB, FC, FK, FZ, FZCB, FZEB, FZPB (FZBB & FZRB Use GM67) TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165
 	GM63CW DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Carbon Woven 1400-1475 Stall	PILOT .824"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 3.3L, 3.8L, 4.3L FH, FY, FYHB, 24208476 TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165
 	GM71CW DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Carbon Woven 1500-1750 Stall	PILOT .824"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 2.3L, 2.4L, 3.1L, 3.3L, 3.4L, 3.8L, 1998-99 3.8L Chevy, BPO FG, FL, FM, FGHB, FGKB, FLHB, FLQB, 24212743, 24222019, 24222784, 24224255, 24222789, 24227094 TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165
 	GM42CW DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Carbon Woven 1800-2200 Stall	PILOT .824"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1.8L, 2.0L, 2.2L, 2.3L, 2.5L, 2.8L, 3.0L, 3.1L, 3.4L, 3.8L, 1997-02 3.4L Chevy, 3.1L BPO, 1999 2.5L & 3.0L Buick FD, FE, FJ, FDQB, 24235591, 24241866 TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165
 	GM73CW DIA. (BOLT CIRCLE) 10.2" (9.35") NOTES Carbon Woven 2300-2900 Stall FZCB = GM73C	PILOT .824"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1.8L, 2.0L, 2.2L, 2.3L, 2.4L, 2.5L, 2.8L FA, FB, FC, FK, FZ, FBFB, FZFB, 24211330, 24241866 (FZBB & FZRB = GM67) TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165

GM

GM

4T65E ONLY

GM

		GM50 	DIA. (BOLT CIRCLE) 10.75" (9.8")	PILOT .824"	SPLINES 27	MOUNT 3 Pads	NOTES 4T65E Carbon Woven 1700-1900 Stall Sell w/ S84755A-1	APPLICATION CODES 1997-08 3.8L Olds, Pontiac, Supercharged Buick JSFM, 12491978, 24207239, 24207329, 24207734, 24208860, 24216224, 24216226, Green Dot TSB: 106, 109, 112, 113, 116, 117, 165
		GM51 	DIA. (BOLT CIRCLE) 10.75" (9.8")	PILOT .824"	SPLINES 27	MOUNT 3 Pads	NOTES 4T65E Carbon Woven 1900-2100 Stall Sell w/ S84755A-1	APPLICATION CODES 1997-08 3.8L Olds, Pontiac, Supercharged Buick JTFM, 24207330, 24208861, 24216230, 24230001, Yellow Dot TSB: 106, 109, 112, 113, 116, 117, 165
		GM52 	DIA. (BOLT CIRCLE) 10.75" (9.8")	PILOT .824"	SPLINES 27	MOUNT 3 Pads	NOTES 4T65E Carbon Woven 2400-2800 Stall Sell w/ S84755A-1	APPLICATION CODES 1997-08 3.5L Olds JXFM, 24207626, 24213730, 24216236, Purple Dot TSB: 106, 109, 112, 113, 116, 117, 165
		GM53 	DIA. (BOLT CIRCLE) 10.75" (9.8")	PILOT .824"	SPLINES 27	MOUNT 3 Pads	NOTES 4T65E Carbon Woven 2200-2400 Stall Sell w/ S84755A-1	APPLICATION CODES 1997-08 3.8L Buick (Non SC), 3.8L Super- charged Pontiac, 03-08 Uplander 3.9L JZFM, 12491980, 24206447, 24213729, 24215416, 24216222, 24216232, 24230004, 24230005, 24230006, Gray or Orange Dot TSB: 106, 109, 112, 113, 116, 117, 165
		VO30 	DIA. (BOLT CIRCLE) 10.625" (9.625")	PILOT .825"	SPLINES 27	MOUNT 6 Pads, 8mm x 1.25	NOTES 4T65E Carbon Woven 1600-1800 Stall	APPLICATION CODES 1999-06 Volvo S80 2.9L FLTV, FLVV, 24211943, 24216629 TSB: 106, 109, 112, 113, 116, 117, 165
		VO32 	DIA. (BOLT CIRCLE) 10.625" (9.625")	PILOT .825"	SPLINES 27	MOUNT 6 Pads	NOTES 4T65E Carbon Woven 1500-1700 Stall	APPLICATION CODES 1999-06 S80 2.8L, 2002-06 XC90 2.9L (Turbo) FMTV, FMVV, 24211944, 24216630 TSB: 106, 109, 112, 113, 116, 117, 165

	GM84 DIA. (BOLT CIRCLE) 11.25" (9.875") NOTES Lock Up Non Viscous	PILOT .824"	SPLINES 30	MOUNT 4 Pads APPLICATION CODES 1994-04 Cadillac 4.6L, Olds Aurora 4.0L 8682848, 8683441, 8689991, 24209249 TSB: 137
	GM86 DIA. (BOLT CIRCLE) 11.25" (9.875") NOTES OE Style Shown For Reference Only Viscous Clutch (Factory Style)	PILOT .824"	SPLINES 30	MOUNT 4 Pads APPLICATION CODES Shown for OE Reference Only TSB: 137
	GM86A DIA. (BOLT CIRCLE) 11.25" (9.875") NOTES Lock Up w/ On/Off Viscous Replaced w/ Damper Clutch	PILOT .824"	SPLINES 30	MOUNT 4 Pads APPLICATION CODES 1994-04 Cadillac 4.6L, Olds Aurora 4.0L 8683440, 8689990, 24201885, 24209428, 24205484, 24209248, 24209250, 24233679 TSB: 137
	GM9401 DIA. (BOLT CIRCLE) 11.375" (9.8") NOTES PWM w/ ECCC Carbon Woven	PILOT .824"	SPLINES 30	MOUNT 4 Pads, 10mm x 1.5 APPLICATION CODES 2005-10 Cadillac DTS 4.6L, Buick Lucerne 4.6L 24204000 TSB: 137

	To ID 4T80E Units		
4T80E ID	There are two types of 4T80E converters, GM86 w/ Viscous Clutches & GM84 w/ Spring Damper Clutches (Non Viscous). GM86A is an aftermarket Non Viscous replacement for the GM86.	GM84 Non Viscous	GM86 Viscous

GM

5L40E, 5L50E

GM

	GM37	DIA. (BOLT CIRCLE) 10.2" (9.375)	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
	NOTES Carbon Woven Low Stall	APPLICATION CODES 2003-06 Cadillac CTS 2.6L, 2.8L w/ 24216146, 3.2L, 3.6L w/ 24216146 24216146 TSB: 27, 28, 29			
	GM37A	DIA. (BOLT CIRCLE) 10.25" (9.75")	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
	NOTES Carbon Woven Med. Stall	APPLICATION CODES 2001-07 Cadillac CTS 2.8L 24222905 TSB: 27, 28, 29			
	GM38	DIA. (BOLT CIRCLE) 10.77" (9.75")	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
	NOTES Carbon Woven Low Stall	APPLICATION CODES 2004-07 Cadillac CTS 3.6L w/ 24220895, SRX 3.6L, 4.4L, & 4.6L w/ 24220895 24220895, Yellow Circle Sticker TSB: 27, 28, 29			
	GM38A	DIA. (BOLT CIRCLE) 10.75" (9.75")	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
	NOTES Carbon Woven Low Stall	APPLICATION CODES 2003-11 Cadillac SRX 4.6L 24223281, Green Dot TSB: 27, 28, 29			

GM

5L40E, 5L50E

 	BMW38 DIA. (BOLT CIRCLE) 10.25" (9.3") NOTES Carbon Woven High Stall	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 1999 323i 2.5L, 01-07 3 Series 3.0L 24212840, 24214840, 24219491 TSB: 27, 28, 29
 	BMW38LS DIA. (BOLT CIRCLE) 10.25" (9.3") NOTES Carbon Woven Low Stall	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 1999-00 328i 2.8L, 01-07 3 Series 2.8L 24212839 TSB: 27, 28, 29
 	BMW41 DIA. (BOLT CIRCLE) 10.6" (9.25") NOTES Carbon Woven Low Stall	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2000-01 323i 2.5L, 2000-06 X5 3.0L Non Turbo 24215581 TSB: 27, 28, 29
 	BMW40L DIA. (BOLT CIRCLE) 10.75" (9.25") NOTES Carbon Woven Low Stall	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2002-04 X5 3.0L Turbo Diesel 24216768, 24225976, 24233966 TSB: 27, 28, 29

GM

GM

6L45, 6L50, 6L80, 6L90

GM		GM10401 DIA. (BOLT CIRCLE) 10.78" (9.25") NOTES Carbon Woven Low Stall Replaces GM1041	PILOT 1.703"	SPLINES 36	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2006-10 Cadillac XLR-V 4.4L Supercharged 24239065, 24240019
		GM10402 DIA. (BOLT CIRCLE) 10.75" (9.75") NOTES Carbon Woven Low Stall Replaces GM1042	PILOT .824"	SPLINES 36	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2006-10 Cadillac STS-V 4.4L Supercharged 24226853, 24240021
		GM10403 DIA. (BOLT CIRCLE) 10.775" (9.75") NOTES Carbon Woven Low Stall Replaces GM1043	PILOT .824"	SPLINES 27	MOUNT 6 Pads, 10mm x 1.5 APPLICATION CODES 2008-11 Cadillac CTS, STS 3.6L, 2010-11 Camaro 3.6L 24240017
		GM10404 DIA. (BOLT CIRCLE) 12.5" (11") NOTES Carbon Woven Low Stall Flanged Hub Heavy Duty Bearing Replaces GM1044	PILOT 1.703"	SPLINES 36	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2007-11 Chevy 2500HD 6.0L JMBX Flanged Hub, 24242396, 24242397, 24238202
		GM10405 DIA. (BOLT CIRCLE) 12.5" (11") NOTES Carbon Woven Low Stall Non Flanged Hub Replaces GM1045	PILOT 1.703"	SPLINES 36	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2008-11 Hummer H2 6.2L, 2006-12 GM Full Size Truck & SUV 6.0L, Corvette 6.0L JMBX Non Flanged Hub, 24243222, 24236469, Purple Sticker
		GM10406 DIA. (BOLT CIRCLE) 12.5" (11.55") NOTES Carbon Woven Multi Clutch Low Stall Replaces GM1046	PILOT 1.703"	SPLINES 36	MOUNT 6 Pads APPLICATION CODES 2009 Chevy 4500HD 6.6L Duramax Diesel JMDZ, ZF Sachs
		NO PHOTO AVAILABLE			

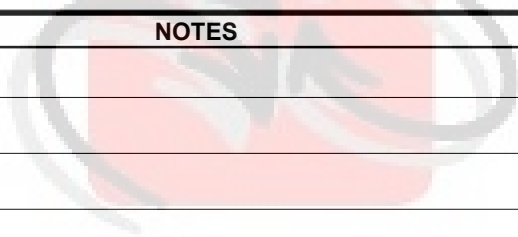
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NOTES




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GM

AW80-40LE, AW81-40LE, U440E

GM1991		DIA. (BOLT CIRCLE) 9.2" (8.875")	PILOT .825"	SPLINES 16	MOUNT 3 Pads, 10mm x 1.25
		NOTES Lock Up Med. Stall	APPLICATION CODES 2006-11 Aveo 1.4L 61A100, 2, 603		


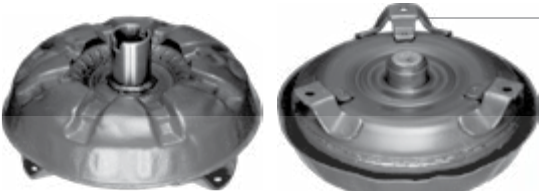



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GM

ALUMINUM POWERGLIDE

GM		PG10 DIA. (BOLT CIRCLE) 10.75" (10") NOTES Non Lock Up 2200-2400 Stall Cooling Shroud	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, Nuts & Bolts APPLICATION CODES 1972-75 Vega, Monza 4 & 6 Cyl.
		PG11 DIA. (BOLT CIRCLE) 11.75" (10.5") NOTES Non Lock Up 1600-1800 Stall Cooling Shroud	PILOT 1.703"	SPLINES 30	MOUNT 3 Pads, Nuts & Bolts APPLICATION CODES 1973-77 Vega, Monza 4 Cyl.
		PG3 DIA. (BOLT CIRCLE) 11.75" (10.5") NOTES Non Lock Up 2200-2400 Stall No Cooling Shroud	PILOT 1.703"	SPLINES 17	MOUNT 3 Pads APPLICATION CODES 1964-73 250 6 Cyl.
		PG6 DIA. (BOLT CIRCLE) 11.75" (10.5") NOTES Non Lock Up Low Stall Cooling Shroud	PILOT 1.703"	SPLINES 17	MOUNT 3 Pads APPLICATION CODES
		PG8 DIA. (BOLT CIRCLE) 11.75" (10.75") NOTES Non Lock Up 1800-2200 Stall Cooling Shroud	PILOT 1.703"	SPLINES 17	MOUNT 3 Pads APPLICATION CODES 1971-73 Monza, Vega 4 Cyl.

GM

ALUMINUM POWERGLIDE

 <p>PG2</p>	<p>DIA. (BOLT CIRCLE) 12.25" (12")</p> <p>NOTES Non Lock Up 1300-1500 Stall No Cooling Shroud</p>	<p>PILOT 1.703"</p>	<p>SPLINES 17</p>	<p>MOUNT 3 Pads, No Clips</p> <p>APPLICATION CODES 1963-68 409 Engine (Aluminum)</p>
 <p>PG5</p>	<p>DIA. (BOLT CIRCLE) 12.25" (12")</p> <p>NOTES Non Lock Up 1500-1700 Stall No Cooling Shroud</p>	<p>PILOT 1.703"</p>	<p>SPLINES 17</p>	<p>MOUNT 3 Pads w/ Clips</p> <p>APPLICATION CODES 1964-68 396 & 427 V8</p>
 <p>PG4</p>	<p>DIA. (BOLT CIRCLE) 12.25" (10.5")</p> <p>NOTES Non Lock Up 1800-2200 Stall No Cooling Shroud</p>	<p>PILOT 1.703"</p>	<p>SPLINES 17</p>	<p>MOUNT 3 Pads</p> <p>APPLICATION CODES 1962-73 V8 (Except 396 & 427)</p>

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GM SATURN

GM

	GM42CW	DIA. (BOLT CIRCLE) 10.2" (9.35")	PILOT .824"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
	NOTES Carbon Woven 1800-2200 Stall	APPLICATION CODES 4T40E 2006-09 Aura Hybrid 2.4L FD, FE, FJ, FDQB, 24235591, 24241866 TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165			
	GM73CW	DIA. (BOLT CIRCLE) 10.2" (9.35")	PILOT .824"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
	NOTES Carbon Woven 2300-2900 Stall	APPLICATION CODES 4T40E 00-04 L Series 2.2L, 2004-07 Ion 2.2L FA, FB, FC, FK, FZ, FBFB, FZFB, 24211330, 24241866 TSB: 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 164, 165			
	GM94	DIA. (BOLT CIRCLE) 10.2" (9.5")	PILOT .824"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
	NOTES Lock Up 1600-1800 Stall	APPLICATION CODES 4T40E 2000-05 L Series 3.0L FLKF, 24208326 TSB: 30, 31			
	GM1441	DIA. (BOLT CIRCLE) 10.85" (9.25")	PILOT .825"	SPLINES 24	MOUNT 3 Pads, 10mm x 1.5
	NOTES Carbon Woven Low Stall	APPLICATION CODES 6T40 2009-11 Saturn Aura 2.4L 24243455, D823910297			
	GM1241	DIA. (BOLT CIRCLE) 11.25" (9.75")	PILOT .825"	SPLINES 27	MOUNT 4 Pads, 10mm x 1.5
	NOTES Carbon Woven Slightly Low Stall	APPLICATION CODES 6T70 2007-09 Aura XR 3.6L, 2007-09 Outlook 3.6L, 2007-10 Vue 3.6L 7G, 7G6, 7G7, 9A8			
	GM1242	DIA. (BOLT CIRCLE) 11.25" (9.75")	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
	NOTES Carbon Woven Slightly Low Stall	APPLICATION CODES 6T70 2007-11 Saturn Vue 3.5L 7H, 7H7, 7H72201G0158			

	T079 DIA. (BOLT CIRCLE) 11.125" (9.375") NOTES Lock Up Slightly High Stall	PILOT .825"	SPLINES 20	MOUNT 3 Pads APPLICATION CODES AW55-50SN 2003-04 Ion 2.2L 43A120, YO, 434, AF33-5 TSB: 21, 128, 129, 130, 168, 178
	T079L DIA. (BOLT CIRCLE) 11.125" (9.375") NOTES Lock Up Low Stall	PILOT .825"	SPLINES 20	MOUNT 3 Pads APPLICATION CODES AW55-50SN 2003-04 Ion 2.2L, 02-03 Vue 3.0L 433, YOP, 43A160, AF33-5, 2E00192, Green Dot TSB: 21, 128, 129, 130, 168, 178
	H082 DIA. (BOLT CIRCLE) 11.225" (12") NOTES Lock Up Med. Stall	PILOT .945"	SPLINES 22	MOUNT 8 Holes APPLICATION CODES HONDA MDRA 2004-07 Vue 3.5L BDKA, MDKA, MDPa, MDRA, RD, RDJ TSB: 171, 189
	GM80 DIA. (BOLT CIRCLE) 9.75" (8.625") NOTES Lock Up Slightly Low Stall Hub O-Ring not Included	PILOT .905"	SPLINES 19	MOUNT 4 Pads, 10mm x 1.5 APPLICATION CODES TAAT 1995-03 S-Series 1.9L CP3, GP3, G-P3, 76322
	GM96 DIA. (BOLT CIRCLE) 9.66" (9.3") NOTES CVT Low Stall	PILOT .825"	SPLINES 19	MOUNT 3 Pads APPLICATION CODES VT25E 2002-05 Vue 2.2L, 2003 Ion 2.2L 24221093, 24222998, 24227601

GM - ALLISON




1000, 2000, 2400

GM - Allison

	A7	DIA. (BOLT CIRCLE) 13.5" (11.5")	PILOT 1.703"	SPLINES 25	MOUNT 6 Pads
	NOTES OE Style Shown For Reference Only	APPLICATION CODES Shown for OE Reference Only			
	A7XL	DIA. (BOLT CIRCLE) 13.5" (11.5")	PILOT 1.703"	SPLINES 25	MOUNT 6 Drilled Holes
	NOTES Single Disc Lock Up 1700-1900 Stall Billet	APPLICATION CODES 2000-05 TC-221 (1.75:1 Ratio) Cummins 5.9L Diesel 221, Black Sticker, 29530317, 29530319, 29538347, 29538528, 29540484, 29543017, 29549519 TSB: 25, 141, 142			
	A7XL-S1	DIA. (BOLT CIRCLE) 13.5" (11.5")	PILOT 1.703"	SPLINES 25	MOUNT 6 Drilled Holes
	NOTES Multi Disc Lock Up 1700-1900 Stall Billet	APPLICATION CODES 2000-05 TC-221 (1.75:1 Ratio) Cummins 5.9L Diesel 221, Black Sticker, 29530317, 29530319, 29538347, 29538528, 29540484, 29543017, 29549519 TSB: 25, 141, 142			
	A7X	DIA. (BOLT CIRCLE) 13.5" (11.5")	PILOT 1.703"	SPLINES 25	MOUNT 6 Drilled Holes
	NOTES Single Disc Lock Up 1900-2100 Stall Billet	APPLICATION CODES 2000-05 TC-211 (2.01:1 Ratio) Duramax 6.6L Diesel Only 211, Green or Yellow Sticker, 29530318, 29538529, 29538348, 29543003, 29543017, 29541293 TSB: 25, 141, 142			
	A7X-S1	DIA. (BOLT CIRCLE) 13.5" (11.5")	PILOT 1.703"	SPLINES 25	MOUNT 6 Drilled Holes
	NOTES Multi Disc Lock Up 1900-2100 Stall Billet	APPLICATION CODES 2000-05 TC-211 (2.01:1 Ratio) Duramax 6.6L Diesel Only 211, Green or Yellow Sticker, 29538529, 29538348, 29530318, 29543003, 29543017, 29541293 TSB: 25, 141, 142			
	A7XH	DIA. (BOLT CIRCLE) 13.5" (11.5")	PILOT 1.703"	SPLINES 25	MOUNT 6 Drilled Holes
	NOTES Single Disc Lock Up 2100-2200 Stall Billet	APPLICATION CODES 2000-05 TC-210 (2.06:1 Ratio) 8.1L Gas 210, Blue or Orange Sticker, 29534832, 29538531, 29538197, 29543015, 29546574, 29549521 TSB: 25, 141, 142			

GM - ALLISON

1000, 2000, 2400

 <p>AL1212</p>	<p>DIA. (BOLT CIRCLE) 13.5" (11.5")</p> <p>NOTES Single Disc Lock Up 1700-1900 Stall OEM Cover</p>	<p>PILOT 1.703"</p>	<p>SPLINES 25</p>	<p>MOUNT 6 Pads, 2.10" Wide</p> <p>APPLICATION CODES 2000-11 TC-221 (1.75:1 Ratio) Cummins 5.9L Diesel 221, Black Sticker, 29530317, 29530319, 29538347, 29538528, 29540484, 29543017, 29549519 TSB: 25, 141, 142</p>
 <p>AL1210</p>	<p>DIA. (BOLT CIRCLE) 13.5" (11.5")</p> <p>NOTES Single Disc Lock Up 1900-2100 Stall OEM Cover</p>	<p>PILOT 1.703"</p>	<p>SPLINES 25</p>	<p>MOUNT 6 Pads, 2.10" Wide</p> <p>APPLICATION CODES 2000-11 TC-211 (2.01:1 Ratio) Duramax 6.6L Diesel Only 211, Green or Yellow Sticker, 29530318, 29538529, 29538348, 29543003, 29543017, 29541293 TSB: 25, 141, 142</p>
 <p>AL1211</p>	<p>DIA. (BOLT CIRCLE) 13.5" (11.5")</p> <p>NOTES Single Disc Lock Up 2100-2200 Stall OEM Cover</p>	<p>PILOT 1.703"</p>	<p>SPLINES 25</p>	<p>MOUNT 6 Pads, 2.10" Wide</p> <p>APPLICATION CODES 2000-11 TC-210 (2.06:1 Ratio) 8.1L Gas 210, Blue or Orange Sticker, 29534832, 29538531, 29538197, 29543015, 29546574, 29549521 TSB: 25, 141, 142</p>

GM - Allison




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GM - ALLISON

AT 540

GM - Allison

	A3HD	DIA. (BOLT CIRCLE) 13" (11.5")	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads
	NOTES Non Lock Up 1350-1550 Stall Built w/ Flanged Hub	APPLICATION CODES Gas & Diesel 270, 275 (Do not mix codes!)			
	A6HD	DIA. (BOLT CIRCLE) 13" (11.5")	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads
	NOTES Non Lock Up 1200-1400 Stall Built w/ Flanged Hub	APPLICATION CODES Diesel Allison AT540, AT545 (Can use w/ TH400) 290 (Do not mix codes!)			
	A9HD	DIA. (BOLT CIRCLE) 13.5" (11.5")	PILOT 1.703"	SPLINES 30	MOUNT 6 Pads
	NOTES Non Lock Up 1350-1550 Stall Built w/ Flanged Hub	APPLICATION CODES Diesel Military Vehicles 275LU (Do not mix codes!)			

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Transmissions – Parts & Service



GM4L60 / 4L60E / 4L65E



Series Features:

- Installation of late model damper components to eliminate excessive travel and rattle
- 100% brazed or welded fins

Application:

GM33 – Low stall, Kevlar friction

GM33CW – Low stall, High thermal slip friction or spun wound carbon woven friction

GM31 – High stall, Kevlar friction

GM31CW – Low stall, High thermal slip friction or spun wound carbon woven friction

GM35 – Medium stall, Kevlar friction

GM35CW – Medium stall, High thermal slip friction or spun wound carbon woven friction

Common Failures:

Friction lining failure

Solution:

Installation of new upgraded friction linings



Each Recon™ by Transtar Torque Converter is covered by the industry-leading 3-Year, 36,000-Mile Warranty!*



* Recon by Transtar Torque Converter Limited Warranty

GM


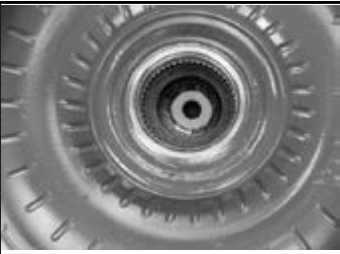







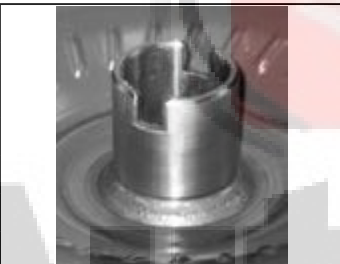










DRIVELINE NEEDS ASSESSMENT (DNA)

GM	TSB#	Symptom	Solution	Part #
	3	No Lock Up	Replace Front Stator Support Bushing	34036B 34036S
	4	Converter Overheat, Delayed Reverse	Install New Wide Stator Bushing	44036B
	5	Converter Overheat, No TCC When Hot	Replace TCC Solenoid	54425B
	12	TCC Slip/Cycling, Code 1870	Install Valve Body Kit To Convert From EC3 To On/Off TC Clutch Engagement	A74165EA
	13	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve (PWM Only)	A74507CEK
	14	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (245mm or 298mm Converter, Non-Reluctor Type, 93-04)	A74529B S74529B
	15	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Non-Reluctor Type, 99-04)	A74529C S74529C
	16	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (298mm Converter, Reluctor Type, 04-Up)	A74529D S74529H
	17	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Reluctor Type, 04-Up)	A74529E S74529L
	18	TCC Slip/Cycling, Code 1870	Install TCC Valve To Convert From EC3 To On/Off TC Clutch Engagement (00-03)	A74741QC
	25	Converter Slippage (Allison)	Replace "F" Trim Valve Sleeve (Pre-2004)	S121741C-2
	27	Incorrect TCC Apply & Release, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Control Valve (Single Valve Pumps)	S134741C
	28	Incorrect TCC Apply & Release, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Control & Enable Valves (Dual Valve Pumps)	S134741CA
	29	Converter Overheat, Delayed/No Reverse	Replace TCC Regulator & Valve Assembly	S134741QK
	30	Converter Overheat, TCC Valve Apply & Release Problems	Replace TCC Control Sleeve (Pre 2003)	S14741C-2
	31	No TCC Apply, Soft/Slipping Apply	Replace TCC Regulated Apply Sleeve	S14741Q-2
	40	Lock Up Chatter	Install Shift Correction Package	S24165E
	41	TCC Slip Related Problems	Replace TCC Regulator Valve Sleeve (00-Up PWM Only)	S24741C-2
	47	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Sure Cure Kit	S34174
	48	Lock Up Shudder, Converter Overheat, Converter Apply & Release Problems	Replace TCC Regulator Valve & Sleeve Assembly	S34741C-2K
	49	Lock Up Shudder, Converter Overheat, Converter Apply & Release Problems	Replace TCC Regulator Valve	S34741CK
	80	Converter Overheat, Code 1870	Install Shift Correction Package (1993-97)	S74165E
	81	TCC Slip/Cycling, 3-4 Clutch Failure, Falls Out Of Lock Up When Hot, No Lock Up, Converter Overheat	Install Shift Correction Package (1998-Up)	S74165EA
	82	TCC Slip/Cycling, 3-4 Clutch Failure, Falls Out Of Lock Up When Hot, No Lock Up, Converter Overheat	Install Sure Cure Kit	S74174A
	83	Converter Overheat, No TCC When Hot	Replace TCC Solenoid Snout (Up To 1996)	S74425N-2
	84	Converter Overheat, No TCC When Hot	Replace TCC Solenoid Snout (1997-Up W/ Anti-Drainback Valve)	S74425S-2

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
85	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly (Non-PWM Only)	S74507C-1
86	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly (PWM Only)	S74507CE-1
87	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Reluctor Type, 04-Up)	S74529L
88	TCC Slip/Cycling, 3-4 Clutch Failure	Replace Isolator Valve Sleeve	S74741Q-2
89	Converter Overheat, TCC Slip	Replace Regulator Valve Assembly (All Years & EC3 Units)	S74741QAK
90	Converter Overheat, TCC Slip	Replace Regulator Valve Assembly (Up To 1997 Non-EC3 Units)	S74741QK
105	Lock Up Shudder	Install Shift Correction Package	S84165
106	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Shift Correction Package	S84165G
107	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870, Reduced Cooler Flow	Install Sure Cure Kit	S84174
108	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870, Reduced Cooler Flow	Install Sure Cure Kit	S84174A
109	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Sure Cure Kit	S84174G
110	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace TCC Regulator & Isolator Valve Assembly (1991-92)	S84741CAK
111	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve (Oversized)	S84741CC-1
112	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve	S84741CD-1
113	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly	S84741CE-1
114	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace TCC Regulator & Isolator Valve Assembly (1993-99)	S84741CK
115	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace Isolator Valve Sleeve (1993-99)	S84741Q-1
116	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace Isolator Valve Sleeve (1993-99)	S84741QK
117	Repeat Converter Failure, TCC Slippage	Replace TCC Relief Valve	S84755A-1
137	Converter Apply & Release Problems	Replace TCC Regulator Valve Assembly	S94741QK
141	Converter Slippage, Weak Lock Up Apply (Allison)	Install Shift Kit® (5 Speed, 2001-05)	T121165
142	Converter Slippage, Weak Lock Up Apply (Allison)	Install Shift Kit® (6 Speed, 2006-Up)	T121167
148	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Kit®	T34165E
149	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Reprogramming Kit™ (HD Applications)	T34169E
161	TCC Slip/Cycling, 3-4 Clutch Failure, No Lock Up, Falls Out Of Lock Up When Hot, Converter Overheat	Install Shift Kit® (1993-08)	T74165E
164	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, No Lock Up, Converter Codes	Install Shift Kit®	T84167E
165	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Shift Kit®	T84167G

FORD

Ford				
	ATX (Does Not Use Splined Insert)	ATX (Insert Removed) (Uses Splined Insert)	ATX Splined Insert (Removed)	Boss
				
	Cooling Shroud	Drain Plug	Hub - Bushing	Hub - Ears
				
	Hub - Flats	Hub - Slotted	Impeller - Dimpled	Impeller - Smooth
				
	Stall - Low	Stall - Medium	Stall - High	Billet Standard Stud (Aftermarket Design)
				
	Extended Stud (OE) (Diesel - Round Pad)	Standard Stud (OE) (Gas - Round Pad)	Standard Stud (OE) (Gas - Oval Pad)	Billet Extended Stud (Aftermarket Design) Length May Vary

FORD

4R44E, 4R55E, 5R44E, 5R55E

 <p>FM68HD</p>	<p>DIA. (BOLT CIRCLE) 11" (9.25")</p> <p>NOTES Lock Up 2550-2950 Stall 1.44" to 1.55" Tall Pilot Stepped .750" to .825" 15 Vane Stator</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs, 3/8 x 24</p> <p>APPLICATION CODES 1995-04 All 4.0L Including 05 Explorer 97HFB, 97HFC, AF, BAA, BAB, FEA, HFC, 1L2AC, 1LZA, 2L2BA, Some 4L2AC</p> <p>TSB: 66, 67, 69, 70, 71, 72, 155, 174</p>
 <p>FM134HD</p>	<p>DIA. (BOLT CIRCLE) 11" (9.3")</p> <p>NOTES Lock Up High Stall 1.25" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1995-04 2.3L, 3.0L Some Rangers, 01-02 2.3L Mazda B3000 1L5AB, 1L5AC, 1L5AD, 2L5AA, 2L5BD, 4L5AD, YL2AB, YL2BA</p> <p>TSB: 66, 67, 69, 70, 71, 72, 155, 174</p>
 <p>FM136HD</p>	<p>DIA. (BOLT CIRCLE) 11" (9.3")</p> <p>NOTES Lock Up 2700-3200 Stall 1.44" to 1.55" Tall Pilot Stepped .750" to .825"</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1995-04 2.3L, 2.9L, 3.0L Some Rangers 87BA, AA, AF, BA, BDA, BFA, CA, CFA, DA, EA, FA, FCA, FDA, HCA, 87BA, 97HCA</p> <p>TSB: 66, 67, 69, 70, 71, 72, 155, 174</p>

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Ford




FORD

5R55N, 5R55S, 5R55W

Ford	FM138		DIA. (BOLT CIRCLE) 10.9" (8.85")	PILOT 1.375"	SPLINES 21	MOUNT 4 Studs
			NOTES Lock Up Med. Stall Use T-0519A or T-0519AAC	APPLICATION CODES 1999-03 w/ 3.0L (Including Jaguar X200, Lincoln LS6, Jag, Mountaineer, Explorer, Thunderbird) LS8, XW4P-BA, XW4P-BD		
				TSB: 57, 58, 59, 60, 63, 64, 154, 169, 175		
Ford	FM138SC		DIA. (BOLT CIRCLE) 10.9" (8.85")	PILOT 1.375"	SPLINES 21	MOUNT 4 Studs
			NOTES Features Sonnax Clutch Conversion Plate Med. Stall Use T-0519A or T-0519AAC	APPLICATION CODES 1999-03 w/ 3.0L (Including Jaguar X200, Lincoln LS6, Jag, Mountaineer, Explorer, Thunderbird) LS8, XW4P-BA, XW4P-BD		
				TSB: 57, 58, 59, 60, 63, 64, 154, 169, 175		
Ford	FM138-8		DIA. (BOLT CIRCLE) 10.9" (8.85")	PILOT 1.375"	SPLINES 21	MOUNT 8 Studs
			NOTES Lock Up Low Stall Use T-0519A or T-0519AAC	APPLICATION CODES 1999-03 w/ 3.9L (Including Lincoln LHS & LS8, Jag, Mountaineer, Explorer, Thunderbird) XW4P-AD, 1W4P-AA, 3L2P-CA, 4L2P-BA, 4L2P-CA		
				TSB: 57, 58, 59, 60, 61, 62, 63, 64, 154, 169, 175		
Ford	FM138-8SC		DIA. (BOLT CIRCLE) 10.9" (8.85")	PILOT 1.375"	SPLINES 21	MOUNT 8 Studs
			NOTES Features Sonnax Clutch Conversion Plate Low Stall Use T-0519A or T-0519AAC	APPLICATION CODES 1999-03 w/ 3.9L (Including Lincoln LHS & LS8, Jag, Mountaineer, Explorer, Thunderbird) XW4P-AD, 1W4P-AA, 3L2P-CA, 4L2P-BA, 4L2P-CA		
				TSB: 57, 58, 59, 60, 61, 62, 63, 64, 154, 169, 175		

FORD

5R55N, 5R55S, 5R55W

 <p>FM67HD</p>	<p>DIA. (BOLT CIRCLE) 10.93" (9.25")</p> <p>NOTES Lock Up (Do Not Interchange w/ FM68HD) Med. Stall 1.74" to 1.75" Tall Pilot Stepped .750" to .825" 10 Vane Stator</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs, 3/8 x 24</p> <p>APPLICATION CODES 2000-10 Explorer, Mustang 4.0L 7L2AA</p> <p>TSB: 57, 58, 61, 62, 63, 64, 154</p>
 <p>FM68HD</p>	<p>DIA. (BOLT CIRCLE) 11" (9.25")</p> <p>NOTES Lock Up (Do Not Interchange w/ FM67HD) 2550-2950 Stall 1.44" to 1.55" Tall Pilot Stepped .750" to .825" 15 Vane Stator</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs, 3/8 x 24</p> <p>APPLICATION CODES 2000-10 Some 4.0L Including 05 Explorer 97HFB, 97HFC, AF, BAA, BAB, FEA, HFC, 1L2AC, 1LZA, 2L2BA, Some 4L2AC</p> <p>TSB: 57, 58, 61, 62, 63, 64, 154</p>
 <p>FM4600</p>	<p>DIA. (BOLT CIRCLE) 11.1" (8.875")</p> <p>NOTES Lock Up - 2 Sided Friction Med. to Low Stall</p>	<p>PILOT .750"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs, 10mm x 1.0</p> <p>APPLICATION CODES 2005-07 Mustang 4.0L 4R3P, A, B</p> <p>TSB: 57, 58, 61, 62, 63, 64, 154</p>

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Transmissions – Parts & Service

Ford

FORD

5R110W

Ford		DIA. (BOLT CIRCLE) 12.75" (11.375")	PILOT 1.375"	SPLINES 31	MOUNT 6 Studs	APPLICATION CODES 2003-Up 6.0L Diesel, 6.8L Gas 6MM, WW9 TSB: 176
		DIA. (BOLT CIRCLE) 12.75" (11.375")	PILOT 1.375"	SPLINES 31	MOUNT 6 Studs	APPLICATION CODES 2003-Up 6.0L Diesel, 6.8L Gas 6MM, WW9 TSB: 176
		DIA. (BOLT CIRCLE) 12.75" (11.375")	PILOT 1.375"	SPLINES 31	MOUNT 6 Studs	APPLICATION CODES 2003-Up 5.4L Gas 6MM, WW9 TSB: 176
		DIA. (BOLT CIRCLE) 12.75" (11.375")	PILOT 1.375"	SPLINES 31	MOUNT 6 Studs	APPLICATION CODES 2003-Up 5.4L Gas 6MM, WW9 TSB: 176
		DIA. (BOLT CIRCLE) 12.75" (11.375")	PILOT 1.375"	SPLINES 31	MOUNT 8 Studs	APPLICATION CODES 2003-07 Superduty 6.0L, L07-10 6.4L Diesel 6MM, WW9 TSB: 176
		DIA. (BOLT CIRCLE) 12.75" (11.375")	PILOT 1.375"	SPLINES 31	MOUNT 8 Studs	APPLICATION CODES 2003-10 Superduty 6.4L Diesel 6MM, WW9 TSB: 176



Torque Converter



FM138 and FM138-8 UPGRADE

Notice a ticking or rattling noise associated with the OEM converter clutch / damper assembly used in the FM138 and FM138-8 converters?

Transtar offers alternatives! Fitting the 5R55N/S/W, the FM138SC and FM138-8SC were designed to eliminate any noise. Removing the OEM clutch and piston assembly, both contain a Sonnax, forged billet conversion clutch plate/piston assembly.



**OEM Friction and
Piston Assembly**



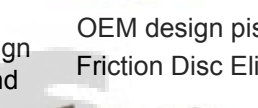
**Sonnax, Forged
Billet Conversion
Clutch Plate/
Piston Assembly**



FM138 or FM138-8



FM138SC or FM138-8SC



OEM Design
Piston and
Friction Disc


OEM design piston and
Friction Disc Eliminated

Sonnax
— Billet
Piston



**Each Recon™ by Transtar Torque Converter is covered by
the industry-leading 3-Year, 36,000-Mile Warranty!**

* Recon by Transtar Torque Converter Limited Warranty

		DIA. (BOLT CIRCLE) 10.7" (8.8")	PILOT .825"	SPLINES 24	MOUNT 4 Studs
NOTES Carbon Woven Low Stall			APPLICATION CODES 2008-12 Escape, Edge, Explorer, Fusion 2.0L 9L8P-7902AA		

The image shows a logo for 'Autrans'. At the top is a red square containing a grey circular arrow design. Below this is the word 'Autrans' in a large, bold, grey sans-serif font. Underneath 'Autrans' is a horizontal red bar with the text 'Transmissions – Parts & Service' in a white sans-serif font. The entire logo is centered on a white background.



Ford

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FORD



6R60, 6R75, 6R80

	FM9501 DIA. (BOLT CIRCLE) 11.875" (11.375")	PILOT 1.375"	SPLINES 32	MOUNT 4 Studs, 10mm x 1.25
	FM9502 DIA. (BOLT CIRCLE) 11.28" (11.4")	PILOT 1.375"	SPLINES 27	MOUNT 4 Stud 10mm x 1.0
	NOTES Captive Clutch	APPLICATION CODES 2009-12 Expedition 5.4L 6R80 EGXA, 9L3P-AF TSB: 185, 186, 187, 188		
NOTES Captive Clutch Low Stall		APPLICATION CODES 2005-10 Explorer & Sport Trac 4.6L, 2007-08 Expedition 5.4L L904A, 5L2P-7902AF, 6L2P-7902AG TSB: 185, 186, 187, 188		

NOTES

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Transmissions – Parts & Service

	FM1261 DIA. (BOLT CIRCLE) 13.4" (11.4") NOTES Captive Clutch Low Stall	PILOT 1.375"	SPLINES 32	MOUNT 4 Studs, 10mm x 1.0 APPLICATION CODES 2010-12 F250, F350 6.2L Gas CC3P-7902AB, CC3Z-7902A
	FM1262 DIA. (BOLT CIRCLE) 13.4" (11.4") NOTES Captive Clutch Low Stall	PILOT 1.375"	SPLINES 32	MOUNT 6 Studs, 10mm x 1.0 APPLICATION CODES 2010-12 F250, F350 6.7L Diesel CC3P-7902BB, CC3Z-7902B





NOTES

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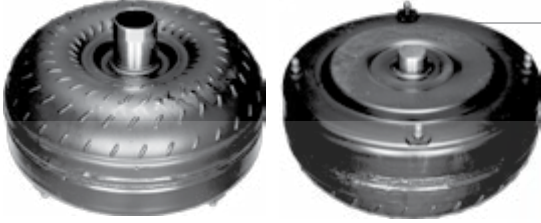


A4LD

Ford		FM76HD DIA. (BOLT CIRCLE) 11" (9.3") NOTES Lock Up Low Stall 1" Tall Pilot Stepped .750" to .825"	PILOT .825"	SPLINES 21	MOUNT 4 Studs APPLICATION CODES 1987-89 Merkur Some 2.9L 97HJC, BE, GA TSB: 65, 68, 156
		FM66HD DIA. (BOLT CIRCLE) 11" (9.3") NOTES Lock Up High Stall 1" Tall Pilot Stepped .750" to .825"	PILOT .825"	SPLINES 21	MOUNT 4 Studs APPLICATION CODES 1987-89 Merkur Some 2.3L CA, CE, DE TSB: 65, 68, 156
		FM134HD DIA. (BOLT CIRCLE) 11" (9.3") NOTES Lock Up High Stall 1.25" Tall Pilot	PILOT .825"	SPLINES 21	MOUNT 4 Studs APPLICATION CODES 1996-04 2.3L, 3.0L Some Rangers, 01-02 2.3L Mazda B3000 1L5AB, 1L5AC, 1L5AD, 2L5AA, 2L5BD, 4L5AD, YL2AB, YL2BA TSB: 65, 68, 156
		FM68HD DIA. (BOLT CIRCLE) 11" (9.25") NOTES Lock Up 2550-2950 Stall 1.44" to 1.55" Tall Pilot Stepped .750" to .825" 15 Vane Stator	PILOT .825"	SPLINES 21	MOUNT 4 Studs, 3/8 x 24 APPLICATION CODES 1990-Up Some 4.0L Including 05 Explorer 97HFB, 97HFC, AF, BAA, BAB, FEA, HFC, 1L2AC, 1LZA, 2L2BA, Some 4L2AC TSB: 65, 68, 156
		FM136HD DIA. (BOLT CIRCLE) 11" (9.3") NOTES Lock Up 2700-3200 Stall 1.44" to 1.55" Tall Pilot Stepped .750" to .825"	PILOT .825"	SPLINES 21	MOUNT 4 Studs APPLICATION CODES 1985-04 2.3L, 2.9L, 3.0L Some Rangers 87BA, AA, AF, BA, BDA, BFA, CA, CFA, DA, EA, FA, FCA, FDA, HCA, 87BA, 97HCA TSB: 65, 68, 156

	FM55 DIA. (BOLT CIRCLE) 12.75" (11.44") NOTES 23 Spline Direct Drive 1600-1800 Stall	PILOT 1.375"	SPLINES 35	MOUNT 4 Studs APPLICATION CODES 1980-93 w/ 351, 4.9L Engines 7A, 14A, 15A
	FM55B DIA. (BOLT CIRCLE) 12.75" (11.44") NOTES 23 Spline Direct Drive 1875-2175 Stall	PILOT 1.375"	SPLINES 35	MOUNT 4 Studs, 3/8 x 24 APPLICATION CODES 1980-93 w/ 302, 3.8L, 4.6L, 5.0L Engines 11A, 13A, 18A, 19A, 30A, 36A, 37A, 39A, 44A, 56A
	FM55BHP-12 DIA. (BOLT CIRCLE) 12.75" (11.44") NOTES 23 Spline Direct Drive 1900-2200 Stall	PILOT 1.375"	SPLINES 35	MOUNT 4 Studs, 3/8 x 24 APPLICATION CODES High Performance
	FM55BHP-11 DIA. (BOLT CIRCLE) 11.75" (11.44") NOTES 23 Spline Direct Drive 2400-2600 Stall	PILOT 1.375"	SPLINES 35	MOUNT 4 Studs APPLICATION CODES High Performance




FORD

AODE, 4R70, 4R75 SERIES

Ford			DIA. (BOLT CIRCLE) 11.75" (10.6")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
	FM70		NOTES Lock Up 2100-2500 Stall	APPLICATION CODES 1993-09 Mark VIII, Mustang 4.6L, Police 4.6L 52A, 62A, 70A, 74A, 81A		
				TSB: 95, 96, 97, 98, 99, 100, 101, 163		
Ford			DIA. (BOLT CIRCLE) 11.75" (10.6")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
	FM70HD		NOTES Lock Up 2100-2500 Stall Furnace Brazed Stock Thrust Bearing	APPLICATION CODES 1993-09 Mark VIII, Mustang 4.6L, Police 4.6L 52A, 62A, 70A, 74A, 81A		
				TSB: 95, 96, 97, 98, 99, 100, 101, 163		
Ford			DIA. (BOLT CIRCLE) 12.75" (11.375")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
	FM69L		NOTES Lock Up 1600-1800 Stall	APPLICATION CODES 3.8L, 4.6L, 5.4L 71A, 84A, 99A		
				TSB: 95, 96, 97, 98, 99, 100, 101, 163		
Ford			DIA. (BOLT CIRCLE) 12.75" (11.375")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
	FM69LHD		NOTES Lock Up 1600-1800 Stall Furnace Brazed Stock Thrust Bearing	APPLICATION CODES 3.8L, 4.6L, 5.4L 71A, 84A, 99A		
				TSB: 95, 96, 97, 98, 99, 100, 101, 163		

FORD

AODE, 4R70, 4R75 SERIES

 <p>FM69</p>	<p>DIA. (BOLT CIRCLE) 12.75" (11.375")</p> <p>NOTES Lock Up 1900-2200 Stall</p>	<p>PILOT 1.375"</p>	<p>SPLINES 31</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 3.8L, 4.6L, 5.0L, 5.4L 51A, 61A, 65A, 69A</p> <p>TSB: 95, 96, 97, 98, 99, 100, 101, 163</p>
 <p>FM69C</p>	<p>DIA. (BOLT CIRCLE) 12.75" (11.375")</p> <p>NOTES Lock Up 1900-2200 Stall</p>	<p>PILOT 1.375"</p>	<p>SPLINES 31</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 4.2L Police 58A, 64A, 72A, 73A, 75A, 76A, 77A, 80A, 82A, 89A, 98A</p> <p>TSB: 95, 96, 97, 98, 99, 100, 101, 163</p>
 <p>FM69H</p>	<p>DIA. (BOLT CIRCLE) 12.75" (11.375")</p> <p>NOTES Lock Up 2000-2300 Stall</p>	<p>PILOT 1.375"</p>	<p>SPLINES 31</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1993-95 3.8L Supercharged, 05-Up F150 5.4L 59A, 63A, 96A</p> <p>TSB: 95, 96, 97, 98, 99, 100, 101, 163</p>

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Transmissions – Parts & Service

Ford

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AXOD, AXODE, AX4S, AX4N, 4F50N

3.0L AXOD, AXODE, AX4S, AX4N (23 Splines)

Part #:	Stamped:	Years:	Application:
FM61	01, 34	1986-90	3.0L Taurus, Sable
FM61	06, 53	1991	3.0L Taurus, Sable
FM61R	10, 37	1992-93	3.0L Taurus, Sable
FM61R	24, 37	1994	3.0L Taurus, Sable

3.2L AXOD, AXODE, AX4S, AX4N (23 Splines)

Part #:	Stamped:	Years:	Application:
FM60		1993-95	3.2L SHO

3.8L AXOD, AXODE, AX4S, AX4N (23 Splines)


Part #:	Stamped:	Years:	Application:
FM61C	03, 46	1987	3.8L Taurus, Sable, Continental
FM61C	04, 46	1988	3.8L Taurus, Sable, Continental
FM61C	12, 47	1989-90	3.8L Taurus, Sable, Continental
FM61C	07, 35	1991	3.8L Taurus, Sable, Police
FM61M	08, 11	1991	3.8L Continental
FM61R	14, 43	1992-93	3.8L Continental
FM61M	15, 38	1992-93	3.8L Taurus, Sable
FM61	17, 40	1992-93	3.8L Police
FM61M	25, 38	1994	3.8L Taurus, Sable
FM61R	26, 43	1994	3.8L Continental
FM61	27, 40	1994	3.8L Police




AXOD, AXODE, AX4S, AX4N, 4F50N (25 Splines)

Part #:	Stamped:	Years:	Application:	Tabs on Turbine Hub
FM71	19, 32, 45	1994-96	3.0L AX4S	2 or 3 Tabs & Single Friction Clutch
FM71	20	1994-96	3.0L AX4N	2 or 3 Tabs & Single Friction Clutch
FM59	28, 42	1994-96	3.2L SHO (Reduced Primary)	2 or 3 Tabs & Single Friction Clutch
FM59	28, 42	1994-96	3.4L SHO (Reduced Primary)	2 or 3 Tabs & Single Friction Clutch
FM71C	29, 39	1994-96	3.8L AX4S	2 or 3 Tabs & Single Friction Clutch
FM71	30, 31, 44	1994-96	3.8L AX4N	2 or 3 Tabs & Single Friction Clutch
FM71C	29, 39	1994-96	4.6L AX4N	2 or 3 Tabs & Single Friction Clutch
FM71	FLA8	1997-Up	3.0L (Medium Stall Fin Angle)	4 Tabs & Multi Friction Clutch
FM71H	73, F3RT	1997-Up	3.0L (High Stall Fin Angle)	2 or 3 Tabs & Single Friction Clutch
FM71H	69	1997-Up	3.0L (High Stall Fin Angle)	4 Tabs & Multi Friction Clutch
FM59A	n/a	1997-Up	3.4L SHO (Reduced Primary)	4 Tabs & Multi Friction Clutch
FM72C	F5OP	1997-Up	3.8L (Low Stall Fin Angle)	4 Tabs & Multi Friction Clutch
FM71H	73, F3RT	1997-Up	3.8L (High Stall Fin Angle)	2 or 3 Tabs & Single Friction Clutch
FM71H	69	1997-Up	3.8L (High Stall Fin Angle)	4 Tabs & Multi Friction Clutch
FM72C	F5OP	1997-Up	4.6L (Low Stall Fin Angle)	4 Tabs & Multi Friction Clutch
FM90	3F1P	2004-06	3.0L Taurus, Sable	Multi Friction Clutch
FM90LS	3F2P, 5F2P	2004-06	4.2L Freestar, Monterey	Multi Friction Clutch

FORD







AXOD, AXODE, AX4S, AX4N, 4F50N

	FM61C DIA. (BOLT CIRCLE) 10.75" (8.875") NOTES Non PWM 1750-2100 Stall 1 Lock Up Solenoid O-Ring	PILOT .825"	SPLINES 23	MOUNT 4 Studs APPLICATION CODES 1986-E91 Taurus, Sable, Continental (3.8L), 1991 Police (3.8L) 03, 04, 07, 12, 35, 46, 47 TSB: 19, 118, 119, 121, 122, 126, 127, 166, 173
	FM61 DIA. (BOLT CIRCLE) 10.75" (8.875") NOTES Non PWM 2200-2400 Stall 2 Lock Up Solenoid O-Ring	PILOT .825"	SPLINES 23	MOUNT 4 Studs APPLICATION CODES 1986-E91 Taurus, Sable (3.0L), 1992-94 Police (3.8L) 01, 06, 17, 27, 34, 40, 53 TSB: 19, 118, 119, 121, 122, 126, 127, 166, 173
	FM61M DIA. (BOLT CIRCLE) 10.75" (8.875") NOTES PWM 1800-2100 Stall 2 Lock Up Solenoid O-Rings	PILOT .825"	SPLINES 23	MOUNT 4 Studs APPLICATION CODES L91-94 Taurus, Sable (3.8L), 1991 Continental (3.8L) 08, 11, 15, 25, 38 TSB: 19, 118, 119, 121, 122, 126, 127, 166, 173
	FM61R DIA. (BOLT CIRCLE) 10.75" (8.875") NOTES PWM 2200-2400 Stall 2 Lock Up Solenoid O-Rings	PILOT .825"	SPLINES 23	MOUNT 4 Studs APPLICATION CODES L91-94 Taurus, Sable (3.0L), 1992-94 Continental (3.8L) 10, 14, 24, 26, 37, 43 TSB: 19, 118, 119, 121, 122, 126, 127, 166, 173
	FM60 DIA. (BOLT CIRCLE) 10.75" (9") NOTES Lock Up 2875-3300 Stall Reduced Primary	PILOT .825"	SPLINES 23	MOUNT 4 Studs APPLICATION CODES 1993-95 SHO (3.2L) 18, 36

To ID 23 & 25 Spline Shafts	O-Rings 			
	23 Spline, 1.010" (# 86380) 25 Spline, 1.065" (# 86380H)		AXODE 23 Spline Shaft (# 86673A)	AXODE 25 Spline Shaft (#86673B)



FORD

AXOD, AXODE, AX4S, AX4N, 4F50N

Ford		DIA. (BOLT CIRCLE) 10.93" (8.875")	PILOT .825"	SPLINES 25	MOUNT 4 Studs
	NOTES Lock Up 1800-2100 Stall	APPLICATION CODES 1995-97 Lincoln Continental 4.6L 49, 1F3P-AA TSB: 19, 20, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 166, 167, 173			
		DIA. (BOLT CIRCLE) 10.93" (8.875")	PILOT .825"	SPLINES 25	MOUNT 4 Studs
	NOTES Lock Up 1800-2100 Stall	APPLICATION CODES 1998-02 Lincoln Continental 4.6L 58, 71, F50P-AA, F80P-AB TSB: 19, 20, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 166, 167, 173			
		DIA. (BOLT CIRCLE) 10.93" (8.875")	PILOT .825"	SPLINES 25	MOUNT 4 Studs
	NOTES Lock Up 1900-2200 Stall Replaces FM72	APPLICATION CODES L94-Up 3.0L, 3.8L Taurus, Sable, Continental, Windstar 19, 20, 30, 31, 32, 44, 45, 74, 75, 79, F4DP-AA/BA/DA/DB, 1F2P-AA/AB, F68P-AA, F88P-BA TSB: 19, 20, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 166, 167, 173			
		DIA. (BOLT CIRCLE) 10.93" (8.875")	PILOT .825"	SPLINES 25	MOUNT 4 Studs
	NOTES Lock Up 2200-2400 Stall Replaces FM72H	APPLICATION CODES L94-Up 3.0L, 3.8L Taurus, Sable, Continental, Windstar 69, 73, 96, 540, F3RT, 1F1P-AA/AB/AC, 1F3P-AA, F88P-AA/AB, F8DP-AB/AC TSB: 19, 20, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 166, 167, 173			
		DIA. (BOLT CIRCLE) 10.93" (8.875")	PILOT .825"	SPLINES 25	MOUNT 4 Studs
	NOTES Lock Up 2875-3300 Stall Reduced Primary	APPLICATION CODES 1993-95 Taurus SHO 3.2L 18, 28, 42, SHO, F3DP-BA, F4DP-EA, F6DP-AA TSB: 19, 20, 118, 119, 120, 123, 124, 125, 127, 166, 167, 173			
		DIA. (BOLT CIRCLE) 10.75" (9")	PILOT .825"	SPLINES 25	MOUNT 4 Studs
	NOTES Lock Up 2875-3300 Stall Reduced Primary	APPLICATION CODES 1996-99 Taurus SHO 3.4L 51, 55, 64, SHO, F6DP-AA, F8DP-BB TSB: 19, 20, 118, 119, 120, 123, 124, 125, 127, 166, 167, 173			







FORD

AXOD, AXODE, AX4S, AX4N, 4F50N

	FM90 DIA. (BOLT CIRCLE) 11" (8.85") NOTES Lock Up High Stall (200k) Modulating Clutch	PILOT .825"	SPLINES 25	MOUNT 4 Studs APPLICATION CODES 2004-07 Taurus, Sable 3.0L 3F1P, 3F1P-AF TSB: 20, 120, 123, 124, 125, 126, 127, 167
	FM90LS DIA. (BOLT CIRCLE) 11" (8.85") NOTES Lock Up Low Stall (165k) Modulating Clutch	PILOT .825"	SPLINES 25	MOUNT 4 Studs APPLICATION CODES 2004-07 Freestar, Monterey 3.9L & 4.2L 3F2P, 3F2P-AG, 3F2P-BF, 5F2P, 5F2P-AD, 5F2P-AG, 5F2P-BC, Green Dot TSB: 20, 120, 123, 124, 125, 126, 127, 167


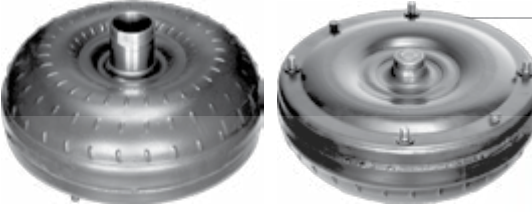




Autrans

Transmissions – Parts & Service

AXODE, AX4S, AX4N (L94-Up) (25 Splines) (Lock-Up)				
To ID # of Tabs on the Turbine Shaft	Two & Three Tabs interchange & are Single Friction clutches, Four Tabs are Multi Friction clutches. Our replacement Turbine Hub does not have tabs!			
		Two Tabs	Three Tabs	Four Tabs
To ID 23 & 25 Spline Shafts	O-Rings 			
	23 Spline, 1.010" (# 86380) 25 Spline, 1.065" (# 86380H)		AXODE 23 Spline Shaft (# 86673A)	AXODE 25 Spline Shaft (#86673B)







FORD

C-4 (1964-69)

Ford		FM101 DIA. (BOLT CIRCLE) 10.25" (9.3") NOTES Non Lock Up 1600-1800 Stall 132T Ring Gear	PILOT 1.375"	SPLINES 24	MOUNT 4 Studs APPLICATION CODES 1964-69 170, 200 6 Cyl R, X, Z,
		FM18 DIA. (BOLT CIRCLE) 11" (10.44") NOTES Non Lock Up 1950-2150 Stall 2 Drain Plugs	PILOT 1.375"	SPLINES 24	MOUNT 4 Studs APPLICATION CODES 1964-69 260, 289, 302 AB, N
		FM18HP-11 DIA. (BOLT CIRCLE) 11" (10.44") NOTES Non Lock Up 2400-2600 Stall	PILOT 1.375"	SPLINES 24	MOUNT 4 Studs APPLICATION CODES 1964-69 High Performance
		FM18HP-10 DIA. (BOLT CIRCLE) 10" (10.44") NOTES Non Lock Up 3000-3400 Stall	PILOT 1.375"	SPLINES 24	MOUNT 4 Studs APPLICATION CODES 1964-69 High Performance
		FM17 DIA. (BOLT CIRCLE) 11" (10.44") NOTES Non Lock Up 1800-2000 Stall 2 Drain Plugs	PILOT 1.572"	SPLINES 24	MOUNT 4 Studs APPLICATION CODES 1964-69 233 6 Cyl P
		FM102 DIA. (BOLT CIRCLE) 12" (11.36") NOTES Non Lock Up 1300-1500 Stall	PILOT 1.375"	SPLINES 24	MOUNT 4 Studs APPLICATION CODES 1964-69 All 12" 6 & 8 Cyl AC, V

FORD





C-4 (1970-81)

	FM117 DIA. (BOLT CIRCLE) 10" (9.3") NOTES Non Lock Up 2400-2700 Stall .826" Tall Pilot Stepped .750" to .825"	PILOT .825"	SPLINES 26	MOUNT 4 Studs APPLICATION CODES 1973-79 140 4 Cyl, 170 6 Cyl
	FM118 DIA. (BOLT CIRCLE) 10" (9.3") NOTES Non Lock Up 2200-2500 Stall 1.22" Tall Pilot	PILOT .750"	SPLINES 26	MOUNT 4 Studs APPLICATION CODES 1974-84 6 Cyl. (Some)
	FM113 DIA. (BOLT CIRCLE) 10" (9.3") NOTES Non Lock Up High Stall .980" Tall Pilot	PILOT .825"	SPLINES 26	MOUNT 4 Studs APPLICATION CODES 1970-83 122, 140 Cyl, 2.3L Ranger BU
	FM49 DIA. (BOLT CIRCLE) 10" (9.3") NOTES Non Lock Up 2125-2325 Stall .875" Tall Pilot	PILOT 1.375"	SPLINES 26	MOUNT 4 Studs APPLICATION CODES 1981-83 3.3L E1SP-7976-AA
	FM120 DIA. (BOLT CIRCLE) 10" (9.3") NOTES Non Lock Up 2125-2325 Stall 1" Tall Pilot	PILOT 1.375"	SPLINES 26	MOUNT 4 Studs APPLICATION CODES 1975-81 302 Mustang, Capri CP, DS
	FM111 DIA. (BOLT CIRCLE) 10.25" (9.3") NOTES Non Lock Up 1600-1800 Stall 132T Ring Gear	PILOT 1.375"	SPLINES 26	MOUNT 4 Studs APPLICATION CODES 1970-81 170, 200 6 Cyl BT

Ford




FORD

C-4 (1970-81)

		DIA. (BOLT CIRCLE) 11" (10.44")	PILOT 1.375"	SPLINES 26	MOUNT 4 Studs
FM18A		NOTES Non Lock Up 1950-2150 Stall	APPLICATION CODES 1970-Up BP		
		DIA. (BOLT CIRCLE) 11" (10.44")	PILOT 1.375"	SPLINES 26	MOUNT 4 Studs
FM18AHP-11		NOTES Non Lock Up 2400-2600 Stall	APPLICATION CODES 1970-Up High Performance		
		DIA. (BOLT CIRCLE) 10" (10.44")	PILOT 1.375"	SPLINES 26	MOUNT 4 Studs
FM18AHP-10		NOTES Non Lock Up 3000-3400 Stall	APPLICATION CODES 1970-Up High Performance		
		DIA. (BOLT CIRCLE) 11" (10.44")	PILOT 1.375"	SPLINES 26	MOUNT 4 Studs
FM122		NOTES Non Lock Up 1750-1950 Stall Extended Pilot	APPLICATION CODES 1970-Up CM		

FORD

C-4 (1970-81)

 <p>FM112</p>	<p>DIA. (BOLT CIRCLE) 12" (11.36")</p> <p>NOTES Non Lock Up 1300-1500 Stall Can Use FM124</p>	<p>PILOT 1.375"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1970-Up BM, BN, BR, DB, DC</p>
 <p>FM124</p>	<p>DIA. (BOLT CIRCLE) 12" (11.36")</p> <p>NOTES Non Lock Up 1300-1500 Stall Can Use FM112</p>	<p>PILOT 1.375"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1970-Up DB, DC, DD, DF, DH, DX, FB</p>
 <p>CP6</p>	<p>DIA. (BOLT CIRCLE) 12" (11.36")</p> <p>NOTES Non Lock Up 1300-1500 Stall Extended Pilot .907" Tall</p>	<p>PILOT 1.375"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1970-Up</p>







Autrans

Transmissions – Parts & Service

Ford

FORD

C-5

Ford		DIA. (BOLT CIRCLE) 12.75" (11.36")	PILOT 12.75"	SPLINES 26	MOUNT 4 Studs
		NOTES Clutch Omitted Low Stall	APPLICATION CODES 1982-86 5.0L, Some 3.8L FS, FY, FX, GB		
		DIA. (BOLT CIRCLE) 12.75" (11.36")	PILOT 12.75"	SPLINES 26	MOUNT 4 Studs
		NOTES Clutch Omitted High Stall	APPLICATION CODES 1982-86 3.3L, 4.2L, 4.9L, Some 3.8L FS, FY, FX, GB		
		DIA. (BOLT CIRCLE) 10" (9.3")	PILOT .825"	SPLINES 26	MOUNT 4 Studs
		NOTES Non Lock Up 2400-2700 Stall .826" Tall Pilot Stepped .750" to .825"	APPLICATION CODES 1982-86		
		DIA. (BOLT CIRCLE) 10" (9.3")	PILOT .825"	SPLINES 26	MOUNT 4 Studs
		NOTES Non Lock Up High Stall .980" Tall Pilot	APPLICATION CODES 1982-86 BU		
		DIA. (BOLT CIRCLE) 10" (9.3")	PILOT 1.375"	SPLINES 26	MOUNT 4 Studs
		NOTES Non Lock Up 2125-2325 Stall .875" Tall Pilot	APPLICATION CODES 1982-86		
		DIA. (BOLT CIRCLE) 12" (11.36")	PILOT 1.375"	SPLINES 26	MOUNT 4 Studs
		NOTES Non Lock Up 1300-1500 Stall Extended Pilot	APPLICATION CODES 1982-86		



**Ford AODE / 4R70W / 4R75W / E
1992-Up**



All Feature:

Brazed or welded fins and Kevlar clutch material

Application:

FM69

- Medium/High stall (1900-2200)
- Standard duty damper and piston

FM69C

- Medium/High stall (1900-2200)
- Upgraded larger HD damper and piston

FM69H

- High stall (2200-2400)
- Standard duty damper and piston

FM69L

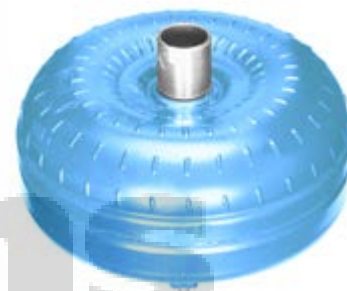
- Low stall (1600-1800)
- Upgraded larger HD damper and piston

Common Failures:

Friction, damper, or piston failure

Solution:

Replacement with upgraded components









***Each Recon™ by Transtar Torque Converter is covered
by the industry-leading 3-Year, 36,000-Mile Warranty!****

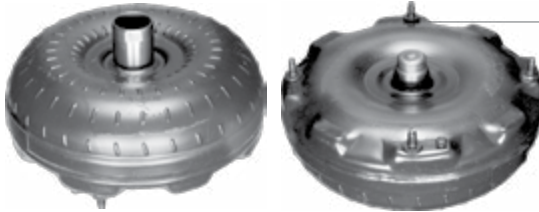







* Recon by Transtar Torque Converter Limited Warranty

FORD

C-6


Ford		DIA. (BOLT CIRCLE) 10.875" (9.25")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
		NOTES Non Lock Up 2750-2950 Stall	APPLICATION CODES 1972-Up		
		DIA. (BOLT CIRCLE) 10.875" (9.25")	PILOT 1.375"	SPLINES 31	MOUNT 8 Studs
		NOTES Non Lock Up 2750-2950 Stall Reinforced Fins Heavy Duty Bearing	APPLICATION CODES 1972-Up		
		DIA. (BOLT CIRCLE) 12.75" (11.44")	PILOT 1.848"	SPLINES 31	MOUNT 4 Studs
		NOTES Non Lock Up 1600-1800 Stall 4 Bosses, Wide Pilot	APPLICATION CODES 1968-71 (1.848" Wide & 1.200" Tall Pilot)		
		DIA. (BOLT CIRCLE) 12.75" (11.44")	PILOT 1.848"	SPLINES 31	MOUNT 4 Studs
		NOTES Non Lock Up 1600-1800 Stall 8 Bosses, Wide Pilot	APPLICATION CODES 1968-71 (1.848" Wide & .960" Tall Pilot)		
		DIA. (BOLT CIRCLE) 12.75" (11.44")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
		NOTES Non Lock Up 1750-2000 Stall	APPLICATION CODES 1972-Up Smooth or Ribbed Pilot		
		DIA. (BOLT CIRCLE) 12.75" (11.44")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
		NOTES Non Lock Up 1750-2000 Stall Reinforced Fins Heavy Duty Bearing	APPLICATION CODES 1972-Up Smooth or Ribbed Pilot		

	FM126DS DIA. (BOLT CIRCLE) 12.75" (11.44") NOTES Non Lock Up 1750-2000 Stall Reinforced Fins Heavy Duty Bearing	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs APPLICATION CODES 1972-Up 6.9L Diesel
	FM127 DIA. (BOLT CIRCLE) 12.75" (11.44") NOTES Non Lock Up 1800-2200 Stall	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs APPLICATION CODES 1972-Up
	FM127HD DIA. (BOLT CIRCLE) 12.75" (11.44") NOTES Non Lock Up 1800-2200 Stall Reinforced Fins Heavy Duty Bearing	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs APPLICATION CODES 1972-Up
	FM127HP-12 DIA. (BOLT CIRCLE) 12.75" (11.44") NOTES Non Lock Up 1800-2200 Stall	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs APPLICATION CODES 1972-Up High Performance
	FM127HP-11 DIA. (BOLT CIRCLE) 11.75" (11.44") NOTES Non Lock Up 2400-2600 Stall	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs APPLICATION CODES 1972-Up High Performance
	FM127HP-10 DIA. (BOLT CIRCLE) 10" (10.44") NOTES Non Lock Up 3000-3400 Stall	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs APPLICATION CODES 1972-Up High Performance

FORD

CD4E

FM80		DIA. (BOLT CIRCLE) 10.55" (8.85")	PILOT .825"	SPLINES 30	MOUNT 4 Studs
		NOTES Lock Up 2315-2700 Stall	APPLICATION CODES 1994-00 Contour 2.0L, Mystique 2.0L, Probe 2.0L, Cougar 2.0L, MX6 2.0L, 626 2.0L A Stamped on Pilot, F3RP, F5RP, F3RZ-7902-ARM		
TSB: 138, 139, 140					
FM89		DIA. (BOLT CIRCLE) 10.825" (8.85")	PILOT .825"	SPLINES 30	MOUNT 4 Studs
		NOTES Lock Up 2325-2710 Stall 3 Pilot Side Weld Spots	APPLICATION CODES 2001-08 Escape, Tribute, Cougar, Mariner H Stamped on Pilot		
TSB: 138, 139, 140					
FM89L		DIA. (BOLT CIRCLE) 10.825" (8.85")	PILOT .825"	SPLINES 30	MOUNT 4 Studs
		NOTES Lock Up 2050-2460 Stall 4 Pilot Side Weld Spots	APPLICATION CODES 2001-08 Escape, Tribute, Cougar, Mariner H Stamped on Pilot, 5L8P		
TSB: 138, 139, 140					
FM75		DIA. (BOLT CIRCLE) 11" (8.85")	PILOT .825"	SPLINES 30	MOUNT 4 Studs
		NOTES Lock Up High Stall	APPLICATION CODES 1995-00 Contour 2.5L, Mystique 2.5L, 1999 Cougar 2.5L C Stamped on Pilot, F4RZ-7902-ARM		
TSB: 138, 139, 140					

<h1>FM3301</h1> 		DIA. (BOLT CIRCLE) 11.25" (9.25")	PILOT 1.375"	SPLINES 27	MOUNT 4 Studs
NOTES Lock Up Low Stall One Drive Tab on Hub		APPLICATION CODES 1995-07 Five Hundred, Freestyle, Montego 3.0L B83, P82			
		TSB: 2			

The logo for Autrans features a stylized red square with a grey circular arrow design. Below this, the word "Autrans" is written in large, bold, grey letters. Underneath "Autrans", the words "transmissions - Parts & Service" are written in white letters on a red background.



Ford E40D / 4R100



FM64 Features:

- 100% piston and damper replacement with upgraded high capacity assembly from LuK
- Brazed/reinforced fins

Application:

Ford E40D / 4R100

- Ford F150, high stall, 1992-1998
- 4.9 / 5.0 / 5.4 / 5.8L engines
- Can be used in both PWM and non-PWM applications

Common Failures:

Damper and piston fail

Solution:

Replacement of damper and piston assembly



Each Recon™ by Transtar Torque Converter is covered by the industry-leading 3-Year, 36,000-Mile Warranty!*

* Recon by Transtar Torque Converter Limited Warranty

FORD

E40D, 4R100 CHART

E40D, 4R100 Chart								
Part #	Ref #	Application	Studs	Stall	Cover	Turbine Hub	Stator Caps	Damper
FM64L	FM-91LS		4	Low	OEM	Stock	Stock	Single Friction Clutch
FM64LX	FM-92	Upgrade	4	Low	Billet	Steel	Bearing Adapter	Single Friction Clutch
FM64D	FM-91D		4	Low	OEM	Stock	Stock	Single Friction Clutch
FM64DX-S3	FM-92HD-S3	Upgrade	4	Extra Low	Billet	w/ Bearing	Bearing Adapter	Multi Friction Clutch
FM64	FM-91HS		4	High	OEM	Stock	Stock	Single Friction Clutch
FM64X	FM-91HSHD	Upgrade	4	High	Billet	Steel	Bearing Adapter	Single Friction Clutch
FM64Q	FM-93G		6	Low	OEM GROB	Steel	Bearing Adapter	Single Friction Clutch
FM64QX	FM-93	Upgrade	6	Low	Billet	Steel	Bearing Adapter	Single Friction Clutch
FM64R	FM-94		6	Low	OEM GROB	w/ Bearing	Bearing Adapter	Multi Friction Clutch
FM64RX-S3	FM-94HD-S3	Upgrade	6	Extra Low	Billet	w/ Bearing	Bearing Adapter	Multi Friction Clutch

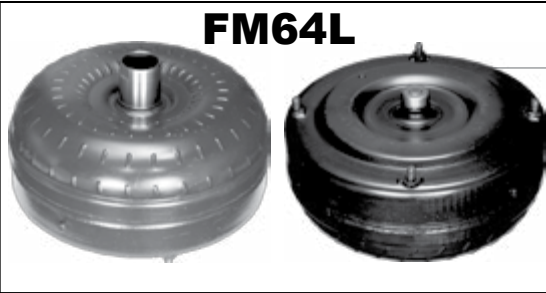
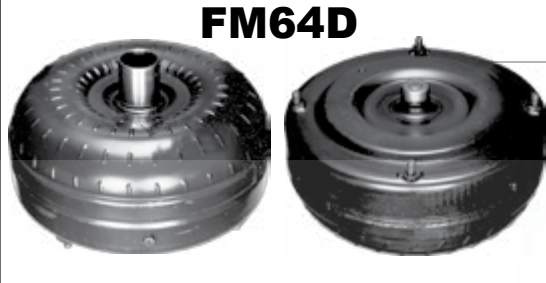





FM64DX-S3 & FM64RX-S3	
Modified Extra Low Stall E40D, 4R100 Converters	
<p>Only the lowest stall impellers are used to manufacture these converters. The impellers used are even lower stall than the typical low stall 'straight rib' impellers; only impellers that have an extra 'low stall' negative rib angle are used in building these converters. All impellers are manually or furnace brazed for added strength and efficiency.</p> <p>In the stator, the only roller clutch assembly used is the .980" tall version. A new 'high capacity' Torrington bearing replaces the OE plastic cap as the thrust surface.</p> <p>Turbines are manually or furnace brazed. The turbine hubs are secured with solid (not hollow) rivets and manually TIG welded to the turbine shell. This helps prevent stress fractures found in high torque and heavy load applications.</p> <p>Only the latest version (3rd Design) of the LuK multiple friction clutch assemblies are used. This latest design has solved the problems such as noise complaints and not allowing the full release or apply of the converter clutch.</p> <p>The bearing between the turbine hub and front cover is also the 'latest design'. Replaced 100% of the time, this bearing has a 'shoulder' that keeps the race properly positioned in all phases of converter operation.</p> <p>The Billet front cover is specially designed to mate to the LuK "3rd design" Multi Friction Clutch assembly. Configured with either four or six studs, this Billet front cover can handle the abuse of modified high torque and/or heavily loaded applications. The studs bases are threaded, counter sunk and then pinned into position, thus eliminating the studs "pulling out" during installation.</p>	

Ford

FORD

E4OD, 4R100 (4 STUD)

Ford		DIA. (BOLT CIRCLE) 12.75" (11.425")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
		NOTES Single Disc Low Stall (110k)	APPLICATION CODES 1989-98 Gas 7.5L, 6.8L V10 & Some 4.9L L, N, R, W		
			TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151		
		DIA. (BOLT CIRCLE) 12.75" (11.425")	PILOT 1.375"	SPLINES 31	MOUNT 4 Extended Studs
		NOTES Single Disc Low Stall (110k)	APPLICATION CODES 1989-98 Diesel 6.9L, 7.3L (E4OD Only)		
			TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151		
		DIA. (BOLT CIRCLE) 12.75" (11.425")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
		NOTES Single Disc Low Stall (110k) Billet Cover Heavy Duty Bearings	APPLICATION CODES 1989-98 Upgrade for the FM64D & FM64L		
			TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151		
		DIA. (BOLT CIRCLE) 12.75" (11.425")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
		NOTES Multi Disc Modified Low Stall (95k) Billet Cover Heavy Duty Bearings	APPLICATION CODES 1989-98 Diesel 7.3L		
			TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151		
		DIA. (BOLT CIRCLE) 12.75" (11.425")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
		NOTES Single Disc High Stall (140k)	APPLICATION CODES 1989-98 Gas 5.0L, 5.4L, 5.8L & Some 4.9L A, E, F, H, M, O, U, AA, SS		
			TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151		
		DIA. (BOLT CIRCLE) 12.75" (11.425")	PILOT 1.375"	SPLINES 31	MOUNT 4 Studs
		NOTES Single Disc High Stall (140k) Billet Cover Heavy Duty Bearings	APPLICATION CODES 1989-98 Upgrade for the FM64		
			TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151		

FORD


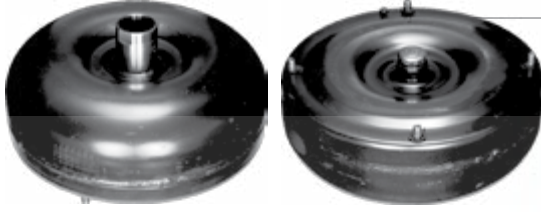




E4OD, 4R100 (6 STUD)

 	FM64Q DIA. (BOLT CIRCLE) 12.75" (11.425") NOTES Single Disc Low Stall (110k) Used Cover	PILOT 1.375"	SPLINES 31	MOUNT 6 Studs APPLICATION CODES 1998-Up Gas 6.8L V10, V8, 7.5L, 4.9L AB, EE, GG, JJ, TT TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151
 	FM64QX DIA. (BOLT CIRCLE) 12.75" (11.425") NOTES Single Disc Low Stall (110k) Billet Cover Heavy Duty Bearings	PILOT 1.375"	SPLINES 31	MOUNT 6 Studs APPLICATION CODES 1998-Up Upgrade for the FM64Q TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151
 	FM64R DIA. (BOLT CIRCLE) 12.75" (11.425") NOTES Multi Disc Low Stall (110k) New GROB Cover	PILOT 1.375"	SPLINES 31	MOUNT 6 Studs APPLICATION CODES 1998-Up 6.8L & 7.5L Gas, 7.3L Diesel AC, AD, AF, WW, XX, ZZ TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151
 	FM64RX-S1 DIA. (BOLT CIRCLE) 12.75" (11.425") NOTES Multi Disc Low Stall (110k) Billet Cover Heavy Duty Bearings	PILOT 1.375"	SPLINES 31	MOUNT 6 Studs APPLICATION CODES 1998-Up Upgrade for the FM64R TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151
 	FM64RX-S3 DIA. (BOLT CIRCLE) 12.75" (11.425") NOTES Multi Disc Modified Low Stall (95k) Billet Cover Heavy Duty Bearings	PILOT 1.375"	SPLINES 31	MOUNT 6 Studs APPLICATION CODES 1998-Up 7.5L Gas, 7.3L Diesel TSB: 10, 50, 51, 52, 53, 54, 55, 150, 151

Ford


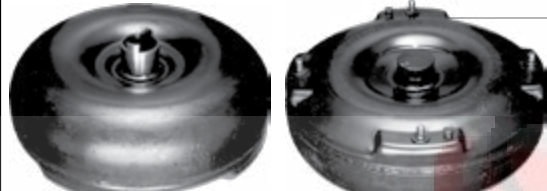




FORD

FMX & 12" SMALL, MEDIUM, LARGE CASE

		DIA. (BOLT CIRCLE) 11" (10.42")	PILOT 1.375"	SPLINES 29	MOUNT 4 Studs
NOTES Non Lock Up Extended Pilot		APPLICATION CODES 1968-81 FMX CC			
		DIA. (BOLT CIRCLE) 12" (11.45")	PILOT 1.375"	SPLINES 29	MOUNT 4 Studs
NOTES Non Lock Up Can Use FM48		APPLICATION CODES 1968-81 FMX 49, 54, 56			
		DIA. (BOLT CIRCLE) 12" (11.45")	PILOT 1.375"	SPLINES 29	MOUNT 4 Studs
NOTES Non Lock Up Can Use FM38		APPLICATION CODES 1968-81 FMX 49, 54, 56, 84, 85			
		DIA. (BOLT CIRCLE) 12" (11.45")	PILOT 1.848"	SPLINES 29	MOUNT 4 Studs
NOTES Non Lock Up Short, Fat Pilot		APPLICATION CODES 1968-81 FMX 57			
		DIA. (BOLT CIRCLE) 12"	PILOT 1.375"	SPLINES 29	MOUNT 4 Studs
NOTES Non Lock Up Ears on Hub		APPLICATION CODES 1965-72 240, 289, 302 (Small, Medium Case)			
		DIA. (BOLT CIRCLE) 12"	PILOT 1.572"	SPLINES 29	MOUNT 4 Studs
NOTES Non Lock Up Ears on Hub		APPLICATION CODES 1958-62 272, 292 V8 (Small, Medium Case)			

FORD

FMX & 12" SMALL, MEDIUM, LARGE CASE

	FM2A DIA. (BOLT CIRCLE) 12" NOTES Non Lock Up Ears on Hub	PILOT 1.572"	SPLINES 17	MOUNT 4 Studs APPLICATION CODES 1965-72 240, 289, 302 (Small, Medium Case)
	FM2 DIA. (BOLT CIRCLE) 12" NOTES Non Lock Up Ears on Hub Thin 3/32" Stud Base Washer Four Wide Bosses	PILOT 1.850"	SPLINES 29	MOUNT 4 Studs APPLICATION CODES 1958-62 332, 352, 361 (Small, Medium Case) 23, 30
	FM2D DIA. (BOLT CIRCLE) 12" NOTES Non Lock Up Ears on Hub Thin 3/32" Stud Base Washer Four Narrow Bosses	PILOT 1.850"	SPLINES 29	MOUNT 4 Studs APPLICATION CODES 1965-72 352, 361, 390 (Small, Medium Case)
	FM2X DIA. (BOLT CIRCLE) 12" NOTES Non Lock Up Ears on Hub Thick 3/16" Stud Base Washer Four Narrow Bosses	PILOT 1.850"	SPLINES 29	MOUNT 4 Studs APPLICATION CODES 1963-67 352, 383, 390 (Small, Medium Case) 19, 20, 24
	FM3 DIA. (BOLT CIRCLE) 12" NOTES Non Lock Up Ears on Hub Thin 3/32" Stud Base Washer	PILOT 1.850"	SPLINES 31	MOUNT 4 Studs APPLICATION CODES 1958-61 410, 430 (Large Case) PBB, PCA
	FM3X DIA. (BOLT CIRCLE) 12" NOTES Non Lock Up Ears on Hub Thick 3/16" Stud Base Washer	PILOT 1.850"	SPLINES 31	MOUNT 4 Studs APPLICATION CODES 1962-65 Lincoln (Large Case) PCA-D, PCA-E

Ford

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TF-80SC, TF-81SC (AF21, AF40)

Ford		FM3901 DIA. (BOLT CIRCLE) 10.375" (9.25") NOTES Lock Up Low Stall	PILOT 1.375"	SPLINES 23	MOUNT 3 Studs, 10mm x 1.0 APPLICATION CODES 2006-09 Fusion, Milan, Zephyr, Mazda 6 3.0L 47A010, 05Y, 18686 TSB: 56, 153
		FM3902 DIA. (BOLT CIRCLE) 11.25" (8.875") NOTES Lock Up Low Stall	PILOT .825"	SPLINES 23	MOUNT 4 Studs, 10mm x 1.0 APPLICATION CODES 2005-07 Five Hundred, Montego 3.0L 71A040, 5G13-7902AA, 5G1Z-7902AA TSB: 56, 153
		VO3901 DIA. (BOLT CIRCLE) 11.565" (9.565") NOTES Lock Up Low Stall	PILOT .824"	SPLINES 23	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES 2005-11 Volvo XC90 4.4L 70A020 TSB: 56

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Transmissions – Parts & Service

FORD

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
2	TCC Apply Problems	Replace Turbine Shaft O-Ring 5F9Z-7H497-EA	33002LA 33004LA 33006LA
10	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Valve Body Kit	A36165E
19	Delayed Engagement, Converter Overheat, Converter Slip Codes	Install Valve Body Kit	A86165E
20	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Valve Body Kit	A86165H
50	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Correction Package	S36165E
51	Soft Shifts, Poor Line Rise, Delayed Reverse	Install Sure Cure Kit (E40D)	S36174
52	Lock Up Shudder, Converter Overheat, Engine Stumble/Stall On Reverse Engagement, TCC Cycling	Install Sure Cure Kit	S36174A
53	Lock Up Shudder, TCC Cycling	Replace TCC Control Valve Assembly (PWM 4R100 Apps Only)	S36507CK
54	Converter Overheat, Engine Stumble/Stall On Reverse Engagement	Replace Line To Lube Pressure Regulator Valve	S36507P-1
55	Converter Overheat, TCC Slippage, Soft Apply	Replace Cooler Bypass Valve	S36996A-5K
56	Converter Remains Applied Causing Harsh Downshifts, TCC Apply & Release Problems	Replace Lock Up Clutch Control Valve Assembly	S39741C-1K
57	Excess TCC Slip, Harsh TCC Apply, Converter Overheat	Install Shift Correction Package	S46165
58	TCC Cycling, Burned Converter, Engine Stall, No TCC Release	Replace TCC Control Spring	S46741-3B
59	Harsh TCC Apply, TCC Slip On Apply	Replace TCC Modulator Spring	S46741-3C
60	Harsh TCC Apply, Low Line Pressure, Excess TCC Slip, Converter Lining Overheat	Replace TCC Back Pressure Spring	S46741-3D
61	High TCC Slip RPM At Increasing Load	Replace TCC Modulator Sleeve / Plunger (OEM Ratio)	S46741C
62	High TCC Slip RPM At Increasing Load	Replace TCC Modulator Sleeve / Plunger (Increased Ratio)	S46741CA
63	Excess TCC Slip	Replace TCC Modulator Valve / Sleeve	S46741CB
64	Excess TCC Slip, TCC Lining Comes Off, Converter Overheat	Replace TCC Control Valve (Oversized)	S46741CCK
65	Lock Up Shudder On Coast Down, Engine Chug, Lock Up Problems	Install Valve Body Kit	S56165E
66	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Shift Correction Package	S56165H
67	No TCC Apply, Poor Converter Fill, Delayed Engagements	Replace TCC Modulator/Sleeve	S56741C-2K
68	Lock Up Shudder On Coast Down, Engine Chug	Replace Anti-Shudder Spring	S56741C-3
69	Low TCC Apply Pressure	Replace TCC Regulator Valve Spring	S56741CA-3K

Ford

FORD

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
70	Converter Apply Problems	Replace TCC Regulator Valve	S56741Q-1
71	Converter Apply Problems, High TCC Slip	Replace TCC Regulator/Sleeve	S56741Q-2K
72	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Zip Kit	S56741ZK
73	Converter Remains Applied Causing Harsh Downshifts, TCC Apply & Release Problems	Replace Lock Up Clutch Control Valve Assembly	S59741C-1
95	Lock Up Shudder	Install Shift Correction Package	S76165E
96	Delayed/No Lock Up, Uncontrollable TCC, Shudder, TCC Apply & Release Problems, Cross Leak Of Converter Release Oil, Loss Of Lock Up	Install Valve Body Kit	S76169E
97	Lock Up Shudder, Uncontrollable TCC, Delayed/No Lock Up, Codes 628, 741, 1741	Install Sure Cure Kit (Up To 1995)	S76174
98	Lock Up Shudder, Uncontrollable TCC, Delayed/No Lock Up, Codes 628, 741, 1741	Install Sure Cure Kit (1996-Up)	S76174A
99	TCC Apply & Release Problems, Cross Leak Of Converter Release Oil	Replace Stator Support Sleeve	S76507S
100	Delayed/No Lock Up, Lock Up Shudder, Uncontrollable TCC	Replace Bypass Control Sleeve/Plunger	S76741AK
101	TCC Slip, Loss Of Lock Up	Replace Bypass Clutch Control Valve (Oversized)	S76741H-1K
118	Delayed Engagement, Converter Slip Codes, Converter Overheat	Install Shift Correction Kit	S86165E
119	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Sure Cure Kit	S86174
120	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Sure Cure Kit	S86174H
121	No/Soft TCC Apply, TCC Slip	Replace TCC Control Valve & Sleeve	S86741B-2
122	TCC Apply & Release Problems, Hydraulic Related Converter Codes	Replace Bypass Clutch Control Valve (Oversized)	S86741BK
123	TCC Apply & Release Control Problems	Replace Bypass Clutch Control Valve (Oversized)	S86741HBBK
124	No TCC Apply, TCC Cycle/Surge	Replace Bypass Control Sleeve/Plunger (0.486" Dia Spool)	S86741HBK
125	No TCC Apply, TCC Cycle/Surge	Replace Bypass Control Sleeve/Plunger (0.496" Dia Spool)	S86741HCK
126	No TCC Apply	Replace Solenoid Regulator Valve (Oversized)	S86741LK
127	Delayed Engagement, Converter Slip Codes, Converter Overheat	Replace Converter Regulator Valve (Oversized)	S86741QK
138	TCC Slippage, No Lock Up, Low Converter Charge	Install Shift Correction Package	S96167
139	TCC Slippage, No Lock Up, Low Converter Charge	Replace Bypass Clutch Control Assembly	S96741BK
140	TCC Slippage, No Lock Up, Low Converter Charge	Replace Master Clutch Control & Pressure Regulator Valve Assemblies	S96741K
150	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Kit®	T36165E
151	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Reprogramming Kit™ (HD Applications)	T36169EA

FORD

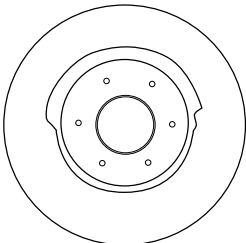
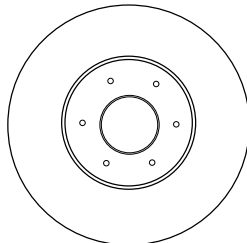


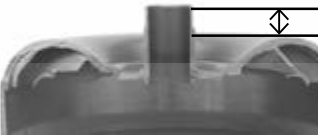
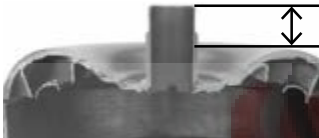
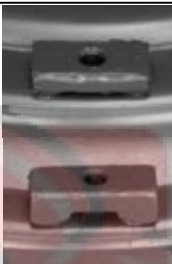
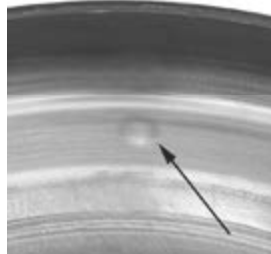





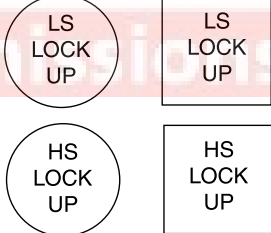






DRIVELINE NEEDS ASSESSMENT (DNA)

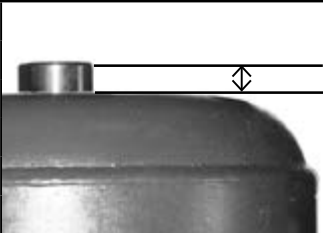
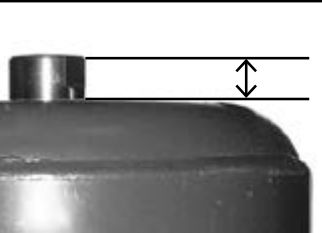
TSB#	Symptom	Solution	Part #
153	TCC Slippage, Lock Up Shudder	Install Shift Kit®	T39165
154	Excess TCC Slip, Harsh TCC Apply, Converter Overheat	Install Shift Kit®	T46165
155	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Shift Kit®	T56165H
156	Lock Up Shudder On Coast Down, Engine Chug, Lock Up Problems	Install Shift Kit®	T56167E
163	Delayed/No Lock Up, Uncontrollable TCC, Shudder, TCC Apply & Release Problems, Cross Leak Of Converter Release Oil, Loss Of Lock Up	Install Shift Kit®	T76165E
166	Delayed Engagement, Converter Slip Codes, Converter Overheat	Install Shift Kit®	T86165E
167	Hard Shift, Neutral At Stop	Install Shift Kit®	T86165H
169	Lock Up Shudder	Use Alignment Tool To Properly Align Converter To Adapter Plate	T-0519A T-0519AAC
173	TCC Apply & Release Control Problems, Code 628	Install Bypass Clutch Control Sleeve & Plunger	S86741A-2
174	Converter Overheat	Install End Plug Kit	S56741-6K
175	High TCC Slip RPM At Increasing Load, Slip Codes	Install TCC Modulator Sleeve & Plunger Valve Kit	S46741-3DA
176	Excess TCC Slip RPM, Code 741, TCC Cycling, TCC Slippage, Code 1783	Install TCC Control Sleeve Assembly	S16507C
185	Excessive TCC Slip RPM, TCC Codes, Converter Apply & Release Problems, Converter Overheat	Install Converter Release Regulator Valve Kit	S95741C-1K
186	Converter Overheat, Low Converter Pressure, Lube Failure	Install Lubrication Control Valve Kit (Oversized)	S95741H-1
187	Converter Overheat, Low TCC Release Pressure, Excessive TCC Slip RPM, Excessive TCC Cycling RPM, TCC Related Codes	Install Bypass Clutch Control Valve Kit (Oversized)	S95741D-1K
188	Shift Flares, Delayed/Harsh Engagements, Excessive Heat	Install Zip Kit	S95741ZK



Ford

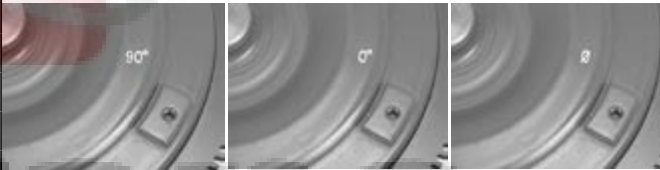


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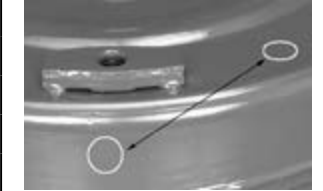

CHRYSLER

Chrysler				
	Crankshaft - Cast	Crankshaft - Steel	Impeller - Deep Early (.650")	Impeller - Shallow Late (.950")
				
	Impeller - Deep Early (.650")	Impeller - Shallow Late (.950")	Pads - Do Not Use the Wrong Bolt!	Damage from using the wrong bolt! (Internal View)
				
	Pattern - Offset	Pattern - 90°	Ring Gear - Narrow	Ring Gear - Wide
				
	Stickers - Non Lock-Up A727 (TF8) & A904 (TF6)	Stickers - Lock-Up A727 (TF8) & A904 (TF6)	2 Weights - CR19 A727 (TF8) Narrow Ring Gear	2 Weights - CR17 A727 (TF8) Narrow Ring Gear
				
	2 Weights - CR18 A727 (TF8) Narrow Ring Gear	2 Weights - CR22 A727 (TF8) Wide Ring Gear	2 Weights - CR21 A727 (TF8) Wide Ring Gear	2 Weights - CR20 A727 (TF8) Wide Ring Gear


To ID Deep and Shallow Impellers			
To ID Impellers	<p>In some later models, Chrysler changed to a Shallow Impeller (Lower Crown). Measure from the top of the impeller to the top of the hub as shown here. The Deep Impeller (Early) measures .650" and the Shallow Impeller (Late) measures .950".</p>		
		Deep Impeller (Early) .650"	Shallow Impeller (Late) .950"

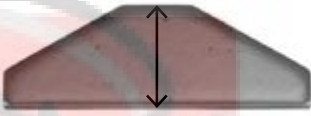
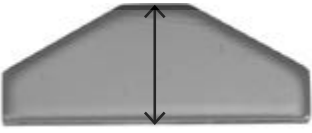
To ID Narrow and Wide Ring Gears			
To ID Narrow & Wide Ring Gears	<p>Narrow Ring Gears are approximately 1/2" from the outside of the converter to the outside of the gear.</p> <p>Wide Ring Gears are approximately 1".</p>		
		Narrow Ring Gear (1/2" Wide)	Wide Ring Gear (1" Wide)


To ID Offset and 90 Degree Bolt Patterns			
To ID Bolt Patterns	<p>In some later models, Chrysler changed from an offset bolt pattern to a 90° bolt pattern. Rear Wheel Drive converters can be identified as follows: 90° bolt pattern covers may have an "90", "0" or "Ø" stamped between the lugs. Offset bolt pattern covers will not have any stamping.</p>		
To ID Bolt Patterns	<p>In some later models, Chrysler changed from an offset bolt pattern to a 90° bolt pattern. The offset bolt pattern has one pad that is offset. Take a straight edge from the center of one bolt hole, across the center of the pilot, to the opposite bolt hole.</p> <p>Or measure the distance between the bolts next to each other. If the measurements are the same, it is a 90° bolt pattern. If they are different, it is an offset bolt pattern.</p>	90° Bolt Pattern	
			
		Offset Bolt Pattern	90° Bolt Pattern

To ID Offset and 90 Degree Bolt Patterns (A604, A606)			
To ID Bolt Patterns	<p>In some later models, Chrysler changed from an offset bolt pattern to a 90° bolt pattern. Front Wheel Drive converters (A604 & A606) can be identified as follows: Offset bolt pattern covers may have an "O" stamped between the lugs or on the side. Some may have both. 90° bolt pattern covers will not have any stamping.</p>		
		Offset Bolt Pattern (One or Both)	90° Bolt Pattern

CHRYSLER

To ID Chrysler Weights			
To ID Chrysler Weights	<p>Prior to 1978, some Chrysler converters used two balancing weights. Measure the weight and compare to the sizes listed.</p> <p>The measurements and matching converters are listed to the far right.</p>		<p>.88"x.62"x.177" (Used w/ CR22)</p> <p>1.20"x.75"x.158" (Used w/ CR19)</p>
			<p>1.40"x.75"x.25" (Used w/ CR17, CR21)</p> <p>1.62"x.75"x.38" (Used w/ CR18, CR20)</p>
		Weights	Measurements




To ID Butterfly Weights			
To ID Butterfly Weights	<p>There are two butterfly weights for Chrysler.</p> <p>The 100 Gram Weight fits the 340, 400 & 440 with a Cast Crank. The overall height of this weight is approximately 1.175"</p> <p>The 120 Gram Weight fits the 360 engines. The overall height of this weight can be either 1.375" or 1.545" depending on the thickness of the metal.</p>		
		100 Gram (1.175" Tall)	120 Gram (1.375" or 1.545" Tall)

To ID 48RE			
To ID 48RE	<p>The 48RE has a sealing ring on the stator support shaft that rides on the inside of the impeller hub. Refer to the picture to the right.</p> <p>The A618 Lock-Up, 47RE and the 47RH do not have this sealing ring.</p>	<p>The CR70X, CR70X-S1 to CR70X-S5 are compatible with the 48RE. These can also be used on the A618 Lock-Up, 47RE and the 47RH. These are best suited for vehicles that have engine modifications with increased torque output.</p>	

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42RLE

 <p>CR87</p>	<p>DIA. (BOLT CIRCLE) 10.2" (8.75")</p> <p>NOTES Lock Up 2000-2400 Stall</p>	<p>PILOT 1.335"</p>	<p>SPLINES 22</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 2003-06 Wrangler, 2.4L, 2.7L</p> <p>TSB: 135</p>
 <p>CR46</p>	<p>DIA. (BOLT CIRCLE) 10.75" (9.125")</p> <p>NOTES Lock Up 2000-2400 Stall</p>	<p>PILOT 1.335"</p>	<p>SPLINES 22</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 2003-10 Dakota 3.7L, 04-08 Magnum 3.5L, 02-10 Liberty 3.7L, 02-11 Wrangler 2.4L, 4.0L 138, 316, 550, 636, 679, 799, 803, 956, 969, 984</p> <p>TSB: 135</p>
 <p>CR0621</p>	<p>DIA. (BOLT CIRCLE) 10.75" (9.125")</p> <p>NOTES Lock Up 2000-2400 Stall EMCC1 Grooved Friction</p>	<p>PILOT 1.335"</p>	<p>SPLINES 22</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 2003-10 Dakota 3.7L, 04-08 Magnum 3.5L, 02-10 Liberty 3.7L, 02-11 Wrangler 2.4L, 4.0L 893AB, 141887781</p> <p>TSB: 135</p>

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Chrysler

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45RFE, 5-45RFE

	CR2A DIA. (BOLT CIRCLE) 11.625" (10") NOTES Lock Up Low Stall O-Ring Not Included	PILOT 1.810"	SPLINES 29	MOUNT 4 Pads, 5/16 x 24 APPLICATION CODES 1999-Up Aspen, Dakota, Durango, Grand Cherokee, Ram 1500-3500, Ram 2500 Hemi 4.7L, 5.7L 352AA TSB: 22, 77, 78, 79, 132, 133, 134, 159, 160
	CR2B DIA. (BOLT CIRCLE) 11.625" (10") NOTES Lock Up Low Stall O-Ring Not Included	PILOT 1.810"	SPLINES 29	MOUNT 4 Pads, 5/16 x 24 APPLICATION CODES 2006-Up 5.7L Hemi TSB: 22, 77, 78, 79, 132, 133, 134, 159, 160
	CR2 DIA. (BOLT CIRCLE) 11.625" (10") NOTES Lock Up Med. Stall O-Ring Not Included	PILOT 1.810"	SPLINES 29	MOUNT 4 Pads, 5/16 x 24 APPLICATION CODES 1999-Up Commander, Dakota, Durango, Grand Cherokee, Liberty, Raider, Ram 1500 2.8L, 3.7L, 4.7L, 5.2L, 5.9L, 2.8L Diesel 582AD, B1 TSB: 22, 77, 78, 79, 132, 133, 134, 159, 160

NOTES

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The logo for Autrans Transmissions - Parts & Service. It features a stylized red and grey circular emblem at the top. Below it, the word "Autrans" is written in a large, bold, grey sans-serif font. Underneath "Autrans", the words "Transmissions - Parts & Service" are written in a smaller, white sans-serif font, set against a solid red rectangular background.

CHRYSLER

68RFE

	CR7201 DIA. (BOLT CIRCLE) 13.425" (12.25") NOTES Lock Up - 2 Sided Friction Low Stall (95k) O-Ring Not Included	PILOT 2.124"	SPLINES 27	MOUNT 6 Holes, 10mm x 1.5 APPLICATION CODES 2007-08 Ram 2500, 3500 Diesel 5.9L, 6.7L Diesel 671AD TSB: 77, 78, 79, 132, 133, 134, 159, 160
	CR7201-S1 DIA. (BOLT CIRCLE) 13.425" (12.25") NOTES Lock Up - 2 Sided Friction Low Stall (95k) Billet Cover O-Ring Not Included	PILOT 2.124"	SPLINES 27	MOUNT 6 Holes, 10mm x 1.5 APPLICATION CODES 2007-08 Ram 2500, 3500 Diesel 5.9L, 6.7L Diesel 671AD TSB: 77, 78, 79, 132, 133, 134, 159, 160
	CR7202 DIA. (BOLT CIRCLE) 13.425" (12.25") NOTES Lock Up - 2 Sided Friction Med. Stall (110k) O-Ring Not Included	PILOT 2.124"	SPLINES 27	MOUNT 6 Holes, 10mm x 1.5 APPLICATION CODES 2009-11 Ram 2500, 3500 Diesel 5.9L, 6.7L Diesel 671AE TSB: 77, 78, 79, 132, 133, 134, 159, 160
	CR7202-S1 DIA. (BOLT CIRCLE) 13.425" (12.25") NOTES Lock Up - 2 Sided Friction Med. Stall (110k) Billet Cover O-Ring Not Included	PILOT 2.124"	SPLINES 27	MOUNT 6 Holes, 10mm x 1.5 APPLICATION CODES 2009-11 Ram 2500, 3500 Diesel 5.9L, 6.7L Diesel 671AE TSB: 77, 78, 79, 132, 133, 134, 159, 160

CHRYSLER

722.6 (MERCEDES)

 <p>CR7801</p>	<p>DIA. (BOLT CIRCLE) 11.375" (10.2")</p> <p>NOTES 2 Friction Clutch Pack High Stall</p>	<p>PILOT 1.335"</p>	<p>SPLINES 22</p>	<p>MOUNT 3 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 2003-Up Commander, Gr. Cherokee 3.5L, 3.7L 447AA, 448AA, 489AA, 603AA</p> <p>TSB: 7, 76, 102, 103</p>
 <p>MB18B</p>	<p>DIA. (BOLT CIRCLE) 11.375" (10.2")</p> <p>NOTES 2 Friction Clutch Pack Low Stall</p>	<p>PILOT 1.335"</p>	<p>SPLINES 22</p>	<p>MOUNT 3 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 1996-Up Grand Cherokee, Liberty 3.7L, 300, 06-07 Charger, Grand Cherokee, Magnum 421AB, 478AA, 500AA, 520AB, 580AA, 580AB</p> <p>TSB: 7, 76, 102, 103</p>
 <p>MB18A</p>	<p>DIA. (BOLT CIRCLE) 11.375" (9.4")</p> <p>NOTES Dual Clutch</p>	<p>PILOT 1.375"</p>	<p>SPLINES 22</p>	<p>MOUNT 3 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 2004-08 Crossfire 3.2L 210-250-0602, 210-250-0702, 210-250-0902, 211-250-0002, 211-250-0302, 211-250-0702, 211-250-0802</p> <p>TSB: 7, 76, 102, 103</p>
 <p>MB18A-3</p>	<p>DIA. (BOLT CIRCLE) 11.375" (9.4")</p> <p>NOTES Triple Clutch</p>	<p>PILOT 1.375"</p>	<p>SPLINES 22</p>	<p>MOUNT 3 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 240-250-0002</p> <p>TSB: 7, 76, 102, 103</p>






CHRYSLER

A404, A413, A470, A670

	CR35 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Non Lock Up Slotted Hub Low Stall	PILOT 1.335"	SPLINES 23	MOUNT 3 Pads APPLICATION CODES 1978-85 1.6L, 1.7L, 2.2L, 2.6L Non Turbo w/ EFI 058, 466, 597, 873
	CR43 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Non Lock Up Slotted Hub High Stall	PILOT 1.335"	SPLINES 23	MOUNT 3 Pads APPLICATION CODES 1978-85 Turbo and 2.2L w/o EFI 068, 970
	CR39 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Non Lock Up Flats on Hub Low Stall Deep Impeller (Non Turbo)	PILOT 1.335"	SPLINES 23	MOUNT 4 Pads, Offset APPLICATION CODES 1986-Up 2.2L, 2.5L, 2.6L 143, 161, 340, 370, 761, 963, 974
	CR39K DIA. (BOLT CIRCLE) 10" (8.75") NOTES Non Lock Up Flats on Hub Med. Stall Shallow Impeller (Turbo)	PILOT 1.335"	SPLINES 23	MOUNT 4 Pads, Offset APPLICATION CODES 1986- Up Turbo 340, 370, 761, 963
	CR40 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Non Lock Up Flats on Hub High Stall Deep Impeller (Turbo)	PILOT 1.335"	SPLINES 23	MOUNT 4 Pads, Offset APPLICATION CODES 1986-Up Caravan, Daytona, Lancer, Lebaron, Shadow, Spirit 2.2L, 2.5L 072, 339, 369, 432, 967, 972

CHRYSLER

A404, A413, A470, A670

	CR41 DIA. (BOLT CIRCLE) 10" (8.563") NOTES Lock Up Flats on Hub Low Stall Deep Impeller	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, Offset APPLICATION CODES 1987-92 2.5L, 2.6L, 3.0L Non Turbo 136, 137, 520, 627, 964, 965
	CR72 DIA. (BOLT CIRCLE) 10" (8.563") NOTES Lock Up Flats on Hub High Stall Deep Impeller	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, Offset APPLICATION CODES 1987-92 2.2L & Turbo 138, 316, 597, 636, 679, 956, 969, 984
	CR42 DIA. (BOLT CIRCLE) 10" (8.6") NOTES Lock Up Flats on Hub Med. Stall Shallow Impeller	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, Offset APPLICATION CODES 1986-02 2.0L, 2.2L, 2.4L, 2.5L, 3.0L 002, 244, 305, 344, 444, 544, 626, 627, 966
	CR73 DIA. (BOLT CIRCLE) 10" (8.6") NOTES Lock Up Flats on Hub High Stall Shallow Impeller Timing Marks	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, Offset APPLICATION CODES 1990-Up 2.0L, 2.4L, 2.7L, Turbos 147, 250, 311, 379, 479, 956
	CR88 DIA. (BOLT CIRCLE) 10" (8.6") NOTES Lock Up Flats on Hub High Stall Shallow Impeller	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, 90° APPLICATION CODES 1995-01 Neon 2.0L, 1995-00 Voyager 3.0L

Chrysler



Chrysler 722.6 Torque Converter



CR7801 Features:

- 100% upgraded with Sonnax piston return spring kit
- 100% replacement of friction package with new frictions



Common Failures:

Engine shuddering/lugging due to piston drag

Solution:

- Torque Converter
 - New Sonnax piston return spring kit
- Transmission (to be done by customer) to improve hydraulic pressure
 - 78741HRK (Superior #K093)
 - S78741QK (Sonnax #68942-10K)





Each Recon™ by Transtar Torque Converter is covered by the industry-leading 3-Year, 36,000-Mile Warranty!*



* Recon by Transtar Torque Converter Limited Warranty

CHRYSLER

A500, 40RH, 42RH, 42RE, 44RE (NON LOCK UP)

 <p>CR78</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Slotted Hub High Stall (145k)</p>	<p>PILOT 1.810"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1988-92 Wrangler 4.0L</p> <p>TSB: 1, 172</p>
 <p>CR68</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Flats on Hub High Stall (145k)</p>	<p>PILOT 1.810"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1993-02 Wrangler 4.0L</p> <p>TSB: 1, 172</p>
 <p>CR79</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Slotted Hub 2200-2400 Stall Replace w/ CR80 & Up- dated Pump</p>	<p>PILOT 1.810"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1988-93 3.9L V6</p> <p>TSB: 1, 172</p>
 <p>CR80</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Flats on Hub Med. Stall</p>	<p>PILOT 1.810"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1993-95 B150, B250, B1500, B2500 3.9L V6</p> <p>TSB: 1, 172</p>

CHRYSLER

A500, 40RH, 42RH, 42RE, 44RE (LOCK UP)

	CR47 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up Flats on Hub Med. Stall	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, Offset APPLICATION CODES 1990-95 Wrangler 2.5L, 1989-02 Dakota 2.5L, 1990-93 Ram D-50 2.4L, 3.0L 002B, 146, 311, 388 TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172
	CR97 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up Flats on Hub Med. Stall	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, 90° APPLICATION CODES 1996-05 Wrangler 2.5L, 2.7L 002B, 146, 311, 388 TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172
	CR9L DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Slotted Hub 1700-2100 Stall 122T Ring Gear	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, Offset APPLICATION CODES 1988-93 3.7L, 3.9L, 5.2L TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172
	CR9H DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Slotted Hub 1900-2400 Stall 122T Ring Gear	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, Offset APPLICATION CODES 1988-93 3.7L, 3.9L, 5.2L TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172
	CR67 DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Slotted Hub High Stall (145k) 122T Ring Gear	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, Offset APPLICATION CODES 1978-93 3.9L, 5.2L White High Stall Sticker TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172
	CR91 DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Flats on Hub 2200-2500 Stall 122T Ring Gear, Built w/ Stator Washer	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, 90° APPLICATION CODES 1996-03 Dakota, Durango, Ram 1500, Jeep 3.9L, 5.2L White Sticker TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172

CHRYSLER

A500, 40RH, 42RH, 42RE, 44RE (LOCK UP)

 <p>CR29</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Lock Up Flats on Hub Low Stall 122T Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1993-95 3.9L, 5.2L White Sticker</p> <p>TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172</p>
 <p>CR28</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Lock Up Flats on Hub High Stall (145k) 122T Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1996-03 Cherokee, Dakota 5.7L White Sticker</p> <p>TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172</p>
 <p>CR69</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Lock Up Flats on Hub High Stall (166k)</p>	<p>PILOT 1.810"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1992-05 Wrangler 4.0L 703</p> <p>TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172</p>
 <p>CR90</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Lock Up Flats on Hub High Stall (144k)</p>	<p>PILOT 1.810"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 1994-04 Grand Cherokee & Laredo 4.0L, 1996-05 Wrangler 4.0L</p> <p>TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172</p>
 <p>CR93</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Lock Up Flats on Hub High Stall (145k) 130T Wide Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 1996-03 Cherokee, Dakota 5.7L Red Sticker</p> <p>TSB: 1, 26, 33, 34, 37, 38, 146, 147, 172</p>

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CHRYSLER

A518, A618, 46RE/RH, 47RE/RH, 48RE (NON LOCKUP)

 <p>CR61</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up 1700-2000 Stall 130T Wide Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1989-Up Ramcharger, W150-250 5.2L 087, 125</p> <p>TSB: 1, 172</p>
 <p>CR66</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up 2100-2400 Stall 130T Wide Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1989-95 B150-350, B1500-2500 5.2L 681, 682, 862, 863</p> <p>TSB: 1, 172</p>
 <p>CR92</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up High Stall (144k) 130T Wide Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 1996-Up B1500-2500 5.2L 546</p> <p>TSB: 1, 172</p>
 <p>CR58</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up High Stall (145k) 130T Wide Ring Gear Square Weight</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Thin Pads, Offset</p> <p>APPLICATION CODES 1992 Ramcharger, W150-250 5.2L 125, 520, 858</p> <p>TSB: 1, 172</p>
 <p>CR62</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Low Stall (115k) 130T Wide Ring Gear Butterfly Weight</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Thin Pads, Offset</p> <p>APPLICATION CODES 1992 B250-350, D250-350, Ramcharger 5.9L 085, 121, 250</p> <p>TSB: 1, 172</p>
 <p>CR27</p>	<p>DIA. (BOLT CIRCLE) 13.125" (12.25")</p> <p>NOTES Non Lock Up 1900-2100 Stall No Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 6 Pads</p> <p>APPLICATION CODES 1989-93 D250-350, W250-350 5.9L Cummins Diesel</p> <p>TSB: 1, 172</p>

CHRYSLER

A518, A618, 46RE/RH, 47RE/RH, 48RE (LOCKUP)

 <p>CR63</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Built w/ High Carbon 2300-2600 Stall 130T Wide Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 23</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1992-96 B150-3500, D150-250, Dakota, Grand Cherokee, Ram 1500-2500, Ramcharger, 5.2L 629, 875, 878, 879, 957, Red or White Sticker</p> <p>TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172</p>
 <p>CR64</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Built w/ High Carbon 2300-2600 Stall 130T Wide Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 23</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1992-96 B250-350, B2500-3500, D150-350, Grand Cherokee, Ram 1500-3500, Ram Charger 5.9L 642, 643, 878</p> <p>TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172</p>
 <p>CR94</p>	<p>DIA. (BOLT CIRCLE) 11.3" (10")</p> <p>NOTES Built w/ High Carbon 2300-2600 Stall 130T Wide Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 23</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 1996-03 B1500-3500, Dakota, Durango, Ram 1500-3500 Including Van, 5.2L, 5.9L 595, 785, Red or Green sticker</p> <p>TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172</p>
 <p>CR94L</p>	<p>DIA. (BOLT CIRCLE) 11.3" (10")</p> <p>NOTES Built w/ High Carbon 2100-2400 Stall 130T Wide Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 23</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 1996-03 B1500-3500, Dakota, Durango, Ram 1500-3500 Including Van, 5.2L, 5.9L 591, 767, 787, Red or Green sticker</p> <p>TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172</p>
 <p>CR94L-S1</p>	<p>DIA. (BOLT CIRCLE) 11.3" (10")</p> <p>NOTES Built w/ High Carbon 2100-2400 Stall 130T Wide Ring Gear Billet Cover Heavy Duty Bearings</p>	<p>PILOT 1.810"</p>	<p>SPLINES 23</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 1996-03 5.9L V8 Trucks 591, 767, 787, Red or Green sticker</p> <p>TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172</p>
 <p>CR65</p>	<p>DIA. (BOLT CIRCLE) 13.785" (12.25")</p> <p>NOTES Single Disc Med. Stall No Ring Gear</p>	<p>PILOT 1.810"</p>	<p>SPLINES 23</p>	<p>MOUNT 6 Pads</p> <p>APPLICATION CODES 1992-02 Ram 2500-3500 8.0L V10 Gas Only. Do not use in 48RE! 506, 591, 633</p> <p>TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172</p>




CHRYSLER

A518, A618, 46RE/RH, 47RE/RH, 48RE (LOCKUP)

		CR70	DIA. (BOLT CIRCLE) 13.785" (12.25")	PILOT 1.810"	SPLINES 23	MOUNT 6 Tapped Holes
		NOTES OE Style Shown For Reference Only	APPLICATION CODES Shown for OE Reference Only			
		CR70L	DIA. (BOLT CIRCLE) 13.785" (12.25")	PILOT 1.810"	SPLINES 23	MOUNT 6 Tapped Holes
		NOTES Single Disc Low Stall Billet Cover	APPLICATION CODES 94-03 A618, 47RE, 47RH. Do not use in 48RE! 634, 644, 868			
		TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172				
		CR70X	DIA. (BOLT CIRCLE) 13.785" (12.25")	PILOT 1.810"	SPLINES 23	MOUNT 6 Tapped Holes
		NOTES Single Disc Low Stall Billet Cover	APPLICATION CODES 2003-07 48RE (Retros A618, 47RE, 47RH)			
		TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172				
		CR70X-S1	DIA. (BOLT CIRCLE) 13.785" (12.25")	PILOT 1.810"	SPLINES 23	MOUNT 6 Tapped Holes
		NOTES Single Disc 100-200 Lower Stall Than Stock Billet Cover	APPLICATION CODES 2003-07 48RE (Retros A618, 47RE, 47RH)			
		TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172				
		CR70X-S2	DIA. (BOLT CIRCLE) 13.785" (12.25")	PILOT 1.810"	SPLINES 23	MOUNT 6 Tapped Holes
		NOTES Triple Disc 50-150 Lower Stall Than Stock Billet Cover Shipped w/ Bolts	APPLICATION CODES 2003-07 48RE (Retros A618, 47RE, 47RH)			
		TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172				
To ID 48RE						
To ID 48RE	The 48RE has a sealing ring on the stator support shaft that rides on the inside of the impeller hub. Refer to the picture to the right. The A618 Lock-Up, 47RE and the 47RH do not have this sealing ring.	*The CR70X, CR70X-S1 to CR70X-S5 are compatible with the 48RE. These can also be used on the A618 Lock-Up, 47RE and the 47RH. These are best suited for vehicles that have engine modifications with increased torque output.				

CHRYSLER

A518, A618, 46RE/RH, 47RE/RH, 48RE (LOCKUP)

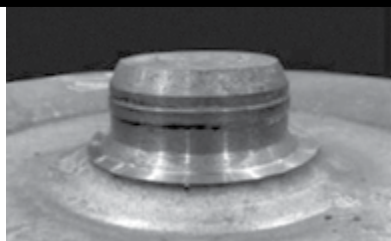
 <p>CR70X-S3</p>	<p>DIA. (BOLT CIRCLE) 13.785" (12.25")</p> <p>NOTES Triple Disc 100-200 Lower Stall Than Stock Billet Cover</p>	<p>PILOT 1.810"</p>	<p>SPLINES 23</p>	<p>MOUNT 6 Tapped Holes</p> <p>APPLICATION CODES 2003-07 48RE (Retros A618, 47RE, 47RH)</p> <p>TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172</p>
 <p>CR70X-S4</p>	<p>DIA. (BOLT CIRCLE) 13.785" (12.25")</p> <p>NOTES Triple Disc 200-400 Lower Stall Than Stock Billet Cover</p>	<p>PILOT 1.810"</p>	<p>SPLINES 23</p>	<p>MOUNT 6 Tapped Holes</p> <p>APPLICATION CODES 2003-07 48RE (Retros A618, 47RE, 47RH)</p> <p>TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172</p>
 <p>CR70X-S5</p>	<p>DIA. (BOLT CIRCLE) 13.785" (12.25")</p> <p>NOTES Triple Disc 300-500 Lower Stall Than Stock Billet Cover</p>	<p>PILOT 1.810"</p>	<p>SPLINES 23</p>	<p>MOUNT 6 Tapped Holes</p> <p>APPLICATION CODES 2003-07 48RE (Retros A618, 47RE, 47RH)</p> <p>TSB: 1, 33, 34, 35, 36, 37, 38, 145, 146, 147, 172</p>

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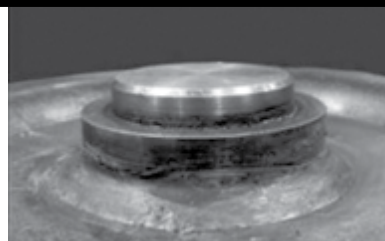
Transmissions – Parts & Service

Chrysler

PILOT IDENTIFICATION



CR65



CR70

CHRYSLER

A604, 40TE, 41TE

	CR42 DIA. (BOLT CIRCLE) 10" (8.6") NOTES Lock Up Med. Stall Shallow Impeller	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, Offset APPLICATION CODES 1989-07 2.0L, 2.4L, 2.5L, 2.7L, 3.0L 002, 244, 305, 344, 444, 544, 626, 627, 966 TSB: 23, 24, 131, 135, 136, 177
	CR73 DIA. (BOLT CIRCLE) 10" (8.6") NOTES Lock Up High Stall Shallow Impeller Timing Marks	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, Offset APPLICATION CODES 1991-Up 2.2L, 2.4L, 2.5L Non Turbo, 01-03 PT Cruiser 2.4L, Some Mitsubishi Eclipse 147, 250, 311, 379, 479, 956 TSB: 23, 24, 131, 135, 136, 177
	CR72 DIA. (BOLT CIRCLE) 10" (8.563") NOTES Lock Up High Stall Deep Impeller	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, Offset APPLICATION CODES 1991-Up 2.4L, 2.5L Turbo 138, 316, 597, 636, 679, 956, 969, 984 TSB: 23, 24, 131, 135, 136, 177
	CR44 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up Low Stall	PILOT 1.335"	SPLINES 24	MOUNT 4 Pads, Offset APPLICATION CODES 1989-90 Caravan 3.0L, 3.3L 039, 040, 395, 581, 595 TSB: 23, 24, 131, 135, 136, 177
	CR45 DIA. (BOLT CIRCLE) 10.75" (8.75") NOTES Lock Up 2000-2400 Stall Can be Smooth or Dimpled	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, Offset APPLICATION CODES 1990-97 Caravan, Dynasty, Grand Caravan, Imperial, New Yorker, Town & Country 3.3L, 3.8L 076, 311, 375, 476, 518, 550, 585, 775 TSB: 23, 24, 131, 135, 136, 177




CHRYSLER

A604, 40TE, 41TE

	CR88 DIA. (BOLT CIRCLE) 10" (8.6") NOTES Lock Up High Stall Shallow Impeller	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, 90° APPLICATION CODES 1998-Up Grand Caravan 3.0L, 1995-06 Stratus 2.4L, 01-09 PT Cruiser 2.4L TSB: 23, 24, 131, 135, 136, 177
	CR85 DIA. (BOLT CIRCLE) 10.75" (9") NOTES Lock Up 2000-2400 Stall Can be Smooth or Dimpled	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, 90° APPLICATION CODES 1998-02 2.4L, 2.7L, 3.3L, 3.8L (2003-07 Use CR0923) 447AA, 476AD TSB: 23, 24, 131, 135, 136, 177
	CR0923 DIA. (BOLT CIRCLE) 10.75" (9") NOTES Lock Up 2000-2400 Stall EMCC1 Grooved Friction	PILOT 1.335"	SPLINES 22	MOUNT 4 Pads, 90° APPLICATION CODES 2003-07 2.4L, 2.7L, 3.3L, 3.8L (EMCC Grooved Friction Version of the CR85) 447AA, 476AD TSB: 23, 24, 131, 135, 136, 177
	CR0920 DIA. (BOLT CIRCLE) 10.75" (9") NOTES Lock Up Slightly High Stall EMCC1 Grooved Friction	PILOT 1.336"	SPLINES 22	MOUNT 4 Pads, 90° APPLICATION CODES 2007-09 Sebring, Stratus 2.4L 478AA, 524AA, 524AB, 534AA, 534AB, 534AC TSB: 23, 24, 131, 135, 136, 177
	CR0921 DIA. (BOLT CIRCLE) 10.75" (9") NOTES Lock Up Low Stall EMCC1 Grooved Friction	PILOT 1.336"	SPLINES 22	MOUNT 4 Pads, 90° APPLICATION CODES 2007-09 Sebring, Stratus 2.7L 527AA, 527AB, 557AA TSB: 23, 24, 131, 135, 136, 177

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A606, 42LE

 <p>CR46</p>	<p>DIA. (BOLT CIRCLE) 10.75" (9.125")</p> <p>NOTES Lock Up 2000-2400 Stall</p>	<p>PILOT 1.335"</p>	<p>SPLINES 22</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1993-97 Concorde, Intrepid, LHS, New Yorker, Vision 3.3L, 3.5L 138, 316, 550, 636, 679, 799, 803, 956, 969, 984 TSB: 23, 24, 131, 135, 136, 177</p>
 <p>CR86</p>	<p>DIA. (BOLT CIRCLE) 10.75" (9.125")</p> <p>NOTES Lock Up 2000-2400 Stall Smooth or Dimpled</p>	<p>PILOT 1.335"</p>	<p>SPLINES 22</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 1998-02 300M, Concorde, Intrepid, LHS, Prowler 2.7L, 3.2L, 3.5L (2003-Up Use CR0621) 461AB, 447AA, 447AB, 845AA, 853A, Red Sticker TSB: 23, 24, 131, 135, 136, 177</p>
 <p>CR0621</p>	<p>DIA. (BOLT CIRCLE) 10.75" (9.125")</p> <p>NOTES Lock Up 2000-2400 Stall EMCC1 Grooved Friction</p>	<p>PILOT 1.335"</p>	<p>SPLINES 22</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 2003-Up 300M, Concorde, Intrepid, LHS, Prowler 2.7L, 3.2L, 3.5L (EMCC Grooved Version of the CR86) 893AB, 141887781 TSB: 23, 24, 131, 135, 136, 177</p>

Autrans

Transmissions – Parts & Service



A518 1996-2002



CR94 Series Features:

- 100% friction replacement with high carbon friction bonded to cover for better durability and apply
- Welded reinforced apply pistons
- Updated to narrow slot impeller hub to eliminate pump gear wear

Application:

CR94 – A518 high stall 1998-99

CR94L – A518 V8 gas engine, 1996-02

- Low stall – Custom cut stator lowers stall speed

CR94L-S1 – A518 1996-02

- Low stall – Custom cut stator lowers stall speed
- Billet steel cover installed to help eliminate ballooning and distortion during clutch apply
- Can be used in place of CR94 and CR94L

Common Failures:

Friction lining failure

Solution:

- Upgrade friction to high carbon type to increase holding power
- Recon bonds directly to the cover the same as the OEM
- More durable to bond to the cover than the piston.



Each Recon™ by Transtar Torque Converter is covered by the industry-leading 3-Year, 36,000-Mile Warranty!*



* Recon by Transtar Torque Converter Limited Warranty






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A727, TF8 (NO RING GEAR)

		CR54L	DIA. (BOLT CIRCLE) 11" (10")	PILOT 1.810"	SPLINES 24	MOUNT 4 Pads, Offset
		NOTES Non Lock Up Low Stall No Ring Gear	APPLICATION CODES 1978-91 Low Stall Sticker			
		TSB: 1, 172				
		CR54H	DIA. (BOLT CIRCLE) 11" (10")	PILOT 1.810"	SPLINES 24	MOUNT 4 Pads, Offset
		NOTES Non Lock Up High Stall No Ring Gear	APPLICATION CODES 1978-91 High Stall Sticker			
		TSB: 1, 172				
		CR55L	DIA. (BOLT CIRCLE) 11" (10")	PILOT 1.810"	SPLINES 23	MOUNT 4 Pads, Offset
		NOTES Lock Up Low Stall No Ring Gear	APPLICATION CODES 1978-91 360, 400 V8 Blue, Red or White High Stall Sticker			
		TSB: 1, 9, 32, 37, 144, 172				
		CR55H	DIA. (BOLT CIRCLE) 11" (10")	PILOT 1.810"	SPLINES 23	MOUNT 4 Pads, Offset
		NOTES Lock Up High Stall No Ring Gear	APPLICATION CODES 1978-91 360, 400 V8 Blue, Red or White High Stall Sticker			
		TSB: 1, 9, 32, 37, 144, 172				
		CR51	DIA. (BOLT CIRCLE) 12" (11.125")	PILOT 1.810"	SPLINES 24	MOUNT 4 Pads, Offset
		NOTES Non Lock Up Low Stall No Ring Gear	APPLICATION CODES 1972-77 8 Cyl. 360 & 401			
		TSB: 1, 172				
		CR27	DIA. (BOLT CIRCLE) 13.125" (12.25")	PILOT 1.810"	SPLINES 24	MOUNT 6 Pads
		NOTES Non Lock Up 1900-2100 Stall No Ring Gear	APPLICATION CODES 1991-93 D250-350 5.9L Cummins Diesel			
		TSB: 1, 172				

CHRYSLER

A727, TF8 (NARROW GEAR)

 <p>CR5</p>	<p>DIA. (BOLT CIRCLE) 12" (11.125")</p> <p>NOTES Non Lock Up 1900-2200 Stall 130T Narrow Ring Gear No Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 19</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1962-66 4.5L, 5.2L, 5.9L, 6.3L, 6.8L, 7.0L, 7.2L</p>
 <p>CR7</p>	<p>DIA. (BOLT CIRCLE) 12" (11.125")</p> <p>NOTES Non Lock Up 1900-2200 Stall 130T Narrow Ring Gear No Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1969-76 383, 400 Engine (Steel Crank)</p>
 <p>CR19</p>	<p>DIA. (BOLT CIRCLE) 12" (11.125")</p> <p>NOTES Non Lock Up 1900-2200 Stall 130T Narrow Ring Gear Two 1.20" x .75"x.158" Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1967-77 Charger, Coronet, D100, Monaco, Polara 5.9L, 7.2L, 440 (Cast or Forged Crank)</p>
 <p>CR17</p>	<p>DIA. (BOLT CIRCLE) 12" (11.125")</p> <p>NOTES Non Lock Up 1900-2200 Stall 130T Narrow Ring Gear Two 1.40" x .75"x.250" Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1971-76 6.6L, 7.2L, 400 (Cast or Forged Crank)</p>
 <p>CR18</p>	<p>DIA. (BOLT CIRCLE) 12" (11.125")</p> <p>NOTES Non Lock Up 1900-2200 Stall 130T Narrow Ring Gear Two 1.62" x .75"x.380" Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1971-76 B100-300, Cordoba, D100-300, Newport, Ramcharger, Town & Country 5.9L, 6.6L V8</p>



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A727, TF8 (WIDE GEAR, NON LOCK UP)

	CR12 DIA. (BOLT CIRCLE) 11" (10") NOTES Non Lock Up High Stall 130T Wide Ring Gear No Weights	PILOT 1.810"	SPLINES 24	MOUNT 4 Pads, Offset APPLICATION CODES 1967-71 426 w/ Hemi Engine
	CR10 DIA. (BOLT CIRCLE) 11" (10") NOTES Non Lock Up 2100-2400 Stall 130T Wide Ring Gear No Weights	PILOT 1.810"	SPLINES 24	MOUNT 4 Thick Pads, Offset APPLICATION CODES 1970-76 B100-300, Charger, Cordoba, Coronet, D100-300, Imperial, New Yorker, Newport, Polara, Ramcharger, Town & Country 6 Cyl. & 318
	CR10L DIA. (BOLT CIRCLE) 11" (10") NOTES Non Lock Up 1700-2000 Stall 130T Wide Ring Gear No Weights	PILOT 1.810"	SPLINES 24	MOUNT 4 Thin Pads, Offset APPLICATION CODES 1977-91 3.7L, 5.2L, 225 & 318 engine Green Low Stall Sticker TSB: 1, 172
	CR10H DIA. (BOLT CIRCLE) 11" (10") NOTES Non Lock Up 2100-2400 Stall 130T Wide Ring Gear No Weights	PILOT 1.810"	SPLINES 24	MOUNT 4 Thin Pads, Offset APPLICATION CODES 1977-91 3.7L, 5.2L, 225 & 318 engine Red or Orange High Stall Sticker TSB: 1, 172
	CR10HP-11 DIA. (BOLT CIRCLE) 11" (10") NOTES Non Lock Up 2400-2600 Stall 130T Wide Ring Gear Specify Engine for Correct Weights	PILOT 1.810"	SPLINES 24	MOUNT 4 Pads, Offset APPLICATION CODES High Performance
	CR10HP-10 DIA. (BOLT CIRCLE) 10" (10") NOTES Non Lock Up 3000-3400 Stall 130T Wide Ring Gear Specify Engine for Correct Weights	PILOT 1.810"	SPLINES 24	MOUNT 4 Pads, Offset APPLICATION CODES High Performance

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A727, TF8 (WIDE GEAR, NON LOCK UP)

 <p>CR66</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up 2100-2400 Stall 130T Wide Ring Gear No Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1992-95 B150-350, B1500-2500 5.2L</p> <p>TSB: 1, 172</p>
 <p>CR92</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up High Stall (144k) 130T Wide Ring Gear No Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 1996-Up B1500-2500 5.2L</p> <p>TSB: 1, 172</p>
 <p>CR22</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up 1800-2100 Stall 130T Wide Ring Gear Two .88" x .62" x .177" Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Thick Pads, Offset</p> <p>APPLICATION CODES 1969-73 340 w/ Cast or Forged Crank</p>
 <p>CR21</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up 1800-2100 Stall 130T Wide Ring Gear Two 1.40" x .75" x .250" Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Thick Pads, Offset</p> <p>APPLICATION CODES 1973-76 400, 440 Cast or Forged Crank</p>
 <p>CR20</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up 2000-2200 Stall 130T Wide Ring Gear Two 1.62" x .75" x .380" Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Thick Pads, Offset</p> <p>APPLICATION CODES 1973-76 360 Engine</p>

Chrysler







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A727, TF8 (WIDE GEAR, NON LOCK UP)

 <p>CR23L</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up 1900-2100 Stall 130T Wide Ring Gear 1.175" Tall Butterfly Weight</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1977-91 6.6L, 7.2L, 400 Engine</p> <p>TSB: 1, 172</p>
 <p>CR23H</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up 2400-2600 Stall 130T Wide Ring Gear 1.175" Tall Butterfly Weight</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1977-91 6.6L, 7.2L, 400 Engine</p> <p>TSB: 1, 172</p>
 <p>CR25L</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up 1800-2100 Stall 130T Wide Ring Gear 1.375" or 1.545" Tall Butterfly Weight</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Thin Pads, Offset</p> <p>APPLICATION CODES 1977-91 5.9L, 360 Engine</p> <p>TSB: 1, 172</p>
 <p>CR25H</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up 2200-2500 Stall 130T Wide Ring Gear 1.375" or 1.545" Tall Butterfly Weight</p>	<p>PILOT 1.810"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Thin Pads, Offset</p> <p>APPLICATION CODES 1977-91 5.9L, 360 Engine</p> <p>TSB: 1, 172</p>







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A727, TF8 (WIDE GEAR, LOCK UP)

	CR11L DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Low Stall 130T Wide Ring Gear No Weights	PILOT 1.810"	SPLINES 23	MOUNT 4 Pads, Offset APPLICATION CODES 1978-91 3.7L, 3.9L, 4.0L, 5.2L Blue or White Low Stall Sticker TSB: 1, 9, 32, 37, 144, 172
	CR11H DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up High Stall 130T Wide Ring Gear No Weights	PILOT 1.810"	SPLINES 23	MOUNT 4 Pads, Offset APPLICATION CODES 1978-91 3.7L, 3.9L, 4.0L, 5.2L Blue or White High Stall Sticker TSB: 1, 9, 32, 37, 144, 172
	CR24L DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Low Stall 130T Wide Ring Gear 1.175" Tall Butterfly Weight	PILOT 1.810"	SPLINES 23	MOUNT 4 Thin Pads, Offset APPLICATION CODES 1977-91 6.6L, 7.2L, 400 Engine Red Low Stall Sticker TSB: 1, 9, 32, 37, 144, 172
	CR24H DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up High Stall 130T Wide Ring Gear 1.175" Tall Butterfly Weight	PILOT 1.810"	SPLINES 23	MOUNT 4 Thin Pads, Offset APPLICATION CODES 1977-91 6.6L, 7.2L, 400 Engine Red High Stall Sticker TSB: 1, 9, 32, 37, 144, 172
	CR26L DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Low Stall 130T Wide Ring Gear 1.375" or 1.545" Tall Butterfly Weight	PILOT 1.810"	SPLINES 23	MOUNT 4 Pads, Offset APPLICATION CODES 1977-91 5.9L, 360 Engine Red Low Stall Sticker TSB: 1, 9, 32, 37, 144, 172
	CR26H DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up High Stall 130T Wide Ring Gear 1.375" or 1.545" Tall Butterfly Weight	PILOT 1.810"	SPLINES 23	MOUNT 4 Pads, Offset APPLICATION CODES 1977-91 5.9L, 360 Engine Red High Stall Sticker TSB: 1, 9, 32, 37, 144, 172


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A904, TF6 (NO RING GEAR, NON LOCK UP)

	KM2 DIA. (BOLT CIRCLE) 10" (8.25") NOTES Non Lock Up Slotted Hub No Inertia Ring	PILOT .750"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1974-78 Colt, Arrow 1.6L
	KM3 DIA. (BOLT CIRCLE) 10" (8.25") NOTES Non Lock Up Slotted Hub w/ Inertia Ring	PILOT .750"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1974-78 Colt, Arrow 2.6L
	CR37 DIA. (BOLT CIRCLE) 10" (8.6") NOTES Non Lock Up Slotted Hub No Inertia Ring	PILOT 1.079"	SPLINES 23	MOUNT 3 Pads APPLICATION CODES 1979-80 Colt, Arrow 1.4L, 1.6L
	CR36 DIA. (BOLT CIRCLE) 10" (8.6") NOTES Non Lock Up Slotted Hub No Inertia Ring	PILOT 1.335"	SPLINES 23	MOUNT 3 Pads APPLICATION CODES 1976-86 Colt, D50, Eagle, Ram 50, Postal Vehicles 2.0L, 2.5L, 2.6L
	CR38 DIA. (BOLT CIRCLE) 10" (8.6") NOTES Non Lock Up Slotted Hub w/ Inertia Ring	PILOT 1.335"	SPLINES 23	MOUNT 3 Pads APPLICATION CODES 1979-80 Colt, Arrow 2.6L
	CR52L DIA. (BOLT CIRCLE) 11" (10") NOTES Non Lock Up Slotted Hub 1700-2100 Stall	PILOT 1.810"	SPLINES 27	MOUNT 4 Pads, Offset APPLICATION CODES 1970-Up 4 Cyl., 6 Cyl. Low Stall Sticker TSB: 1, 172




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A904, TF6 (NO RING GEAR, NON LOCK UP)

	CR52H DIA. (BOLT CIRCLE) 11" (10") NOTES Non Lock Up Slotted Hub 1900-2400 Stall	PILOT 1.810"	SPLINES 27	MOUNT 4 Pads, Offset APPLICATION CODES 1970-Up 4 Cyl., 6 Cyl. High Stall Sticker TSB: 1, 172
	J100 DIA. (BOLT CIRCLE) 11" (9.125") NOTES Non Lock Up Slotted Hub High Stall	PILOT .825"	SPLINES 27	MOUNT 4 Pads, 90° APPLICATION CODES 1985-Up AMC, Jeep 4 Cyl. Made in West Germany
	CR78 DIA. (BOLT CIRCLE) 11" (10") NOTES Non Lock Up Slotted Hub High Stall (145k)	PILOT 1.810"	SPLINES 27	MOUNT 4 Pads, Offset APPLICATION CODES 1988-92 Wrangler 4.0L TSB: 1, 172
	CR68 DIA. (BOLT CIRCLE) 11" (10") NOTES Non Lock Up Flats On Hub High Stall (145k)	PILOT 1.810"	SPLINES 27	MOUNT 4 Pads, Offset APPLICATION CODES 1993-Up Wrangler 4.0L TSB: 1, 172



CHRYSLER

A904, TF6 (NO RING GEAR, LOCK UP)

 <p>CR47</p>	<p>DIA. (BOLT CIRCLE) 10" (8.75")</p> <p>NOTES Lock Up Flats on Hub Med. Stall</p>	<p>PILOT 1.335"</p>	<p>SPLINES 22</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1988-95 Wrangler 2.5L, 1989-02 Dakota 2.5L, 1990-93 Ram 50 2.4L, 3.0L 002B, 146, 311, 388</p> <p>TSB: 1, 9, 32, 37, 144, 172</p>
 <p>CR97</p>	<p>DIA. (BOLT CIRCLE) 10" (8.75")</p> <p>NOTES Lock Up Flats on Hub Med. Stall</p>	<p>PILOT 1.335"</p>	<p>SPLINES 22</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 1996-05 Wrangler 2.5L</p> <p>TSB: 1, 9, 32, 37, 144, 172</p>
 <p>J22</p>	<p>DIA. (BOLT CIRCLE) 11" (9.125")</p> <p>NOTES Lock Up Slotted Hub Low Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 1984-87 AMC, Jeep Cherokee 6 Cyl. Made in West Germany</p> <p>TSB: 9, 32, 37, 144</p>
 <p>J23</p>	<p>DIA. (BOLT CIRCLE) 11" (9.125")</p> <p>NOTES Lock Up Slotted Hub High Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Pads, 90°</p> <p>APPLICATION CODES 1984-87 AMC, Jeep Cherokee 4 Cyl. Made in West Germany</p> <p>TSB: 9, 32, 37, 144</p>

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A904, TF6 (NO RING GEAR, LOCK UP)

 	CR53L DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Slotted Hub 1700-2100 Stall	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, Offset APPLICATION CODES 1978-91 V8, Some 6 Cyl. Red Low Stall Sticker TSB: 1, 9, 32, 37, 144, 172
 	CR53H DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Slotted Hub 1900-2400 Stall	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, Offset APPLICATION CODES 1978-91 4 Cyl., Some 6 Cyl. White High Stall Sticker TSB: 1, 9, 32, 37, 144, 172
 	CR69 DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Flats on Hub High Stall (166k)	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, Offset APPLICATION CODES 1992-05 Wrangler 4.0L TSB: 1, 9, 32, 37, 144, 172
 	CR90 DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Flats on Hub High Stall (144k)	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, 90° APPLICATION CODES 1994-04 Grand Cherokee & Laredo 4.0L, 1996-05 Wrangler 4.0L 586, 596, 783, 784, 785, 795 TSB: 1, 9, 32, 37, 144, 172





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A904, TF6 (RING GEAR, NON LOCK UP)

 <p>CR1</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Slotted Hub Med. Stall 148T Gear, No Weights</p>	<p>PILOT 1.550"</p>	<p>SPLINES 18</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1960-E62 (18 Splines)</p>
 <p>CR3</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Slotted Hub Med. Stall 122T Gear, No Weights</p>	<p>PILOT 1.550"</p>	<p>SPLINES 18</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES L62-67 (18 Splines)</p>
 <p>CR4</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Slotted Hub Med. Stall 122T Gear, No Weights</p>	<p>PILOT 1.550"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1960-72 (27 Splines)</p>
 <p>CR8L</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Slotted Hub 1700-2100 Stall 122T Gear, No Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1968-76 Aspen, B100, B300, Charger, Diplomat, Monaco 3.7L, 5.2L, 5.9L, 225, 318 Low Stall Sticker</p>
 <p>CR8H</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Slotted Hub 1900-2400 Stall 122T Gear, No Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1968-76 Aspen, B100, B300, Charger, Diplomat, Monaco 3.7L, 5.2L, 5.9L, 225, 318 High Stall Sticker</p>
 <p>CR80</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Flats on Hub Med. Stall 122T Gear, No Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1993-95 B150, B250, B1500, B2500 3.9L V6 TSB: 1, 172</p>

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A904, TF6 (RING GEAR, NON LOCK UP)

 <p>CR79</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Slotted Hub 2200-2400 Stall 122T Gear, No Weights Replace w/ CR80 & Up- dated Pump</p>	<p>PILOT 1.810"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1988-93 3.9L V6</p> <p>TSB: 1, 172</p>
 <p>CR15L</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Slotted Hub 1600-1800 Stall 122T Gear, 1 Weight</p>	<p>PILOT 1.810"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1977-91 Aspen, Charger, Monaco, New Yorker 5.2L, 5.9L, 360 Low Stall Sticker</p> <p>TSB: 1, 172</p>
 <p>CR15H</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Slotted Hub 1800-2000 Stall 122T Gear, 1 Weight</p>	<p>PILOT 1.810"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1977-91 Aspen, Charger, Monaco, New Yorker 5.2L, 5.9L, 360 High Stall Sticker</p> <p>TSB: 1, 172</p>
 <p>CR13</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Slotted Hub 1600-1800 Stall 122T Gear, 2 Weights</p>	<p>PILOT 1.810"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, Offset</p> <p>APPLICATION CODES 1973-77 Aspen, Charger, Coronet, Dart, Monaco, Newport w/ 360 Engine</p>



CHRYSLER

A904, TF6 (RING GEAR, LOCK UP)

	CR9L DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Slotted Hub 1700-2100 Stall 122T Gear, No Weights	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, Offset	APPLICATION CODES 1978-93 3.7L, 3.9L, 5.2L, 225, 318 TSB: 1, 9, 32, 37, 144, 172
	CR9H DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Slotted Hub 1900-2400 Stall 122T Gear, No Weights	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, Offset	APPLICATION CODES 1978-93 3.7L, 3.9L, 5.2L, 225, 318 TSB: 1, 9, 32, 37, 144, 172
	CR16L DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Slotted Hub 1700-2100 Stall 122T Gear, 1 Weight	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, Offset	APPLICATION CODES 1978-93 5.9L, 360 Red Low Stall Sticker TSB: 1, 9, 32, 37, 144, 172
	CR16H DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Slotted Hub 1900-2400 Stall 122T Gear, 1 Weight	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, Offset	APPLICATION CODES 1978-93 5.9L, 360 Red High Stall Sticker TSB: 1, 9, 32, 37, 144, 172
	CR28 DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Flats on Hub High Stall 122T Gear, No Weights	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, Offset	APPLICATION CODES 1984-95 B150-250, B1500-2500, D150-250, Dakota, Ram 1500 3.9L, 5.2L White Sticker TSB: 1, 9, 32, 37, 144, 172
	CR91 DIA. (BOLT CIRCLE) 11" (10") NOTES Lock Up Flats on Hub 2200-2500 Stall 122T Gear, No Weights	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, 90°	APPLICATION CODES 1996-03 B1500-2500, Ram 1500-2500 Van 3.9L White Sticker TSB: 1, 9, 32, 37, 144, 172

CHRYSLER

AS68RC (A465)

	KM9901 DIA. (BOLT CIRCLE) 12.475" (10.7") NOTES Multi Disc Lock Up Low Stall	PILOT 1.569"	SPLINES 24	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES 2005 Mitsubishi Cabover 4.7L, FUSO Box Truck 04G20, White Paint
	CR9901 DIA. (BOLT CIRCLE) 13.5" (12.25") NOTES Clutch Pack Low Stall	PILOT 2.121"	SPLINES 24	MOUNT 6 Pads, 10mm x 1.5 APPLICATION CODES 2007-Up Ram 3500 6.7L Diesel 07E14 A, White Paint

NOTES

Autrans
Transmissions – Parts & Service

CHRYSLER

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
1	Converter Drainback	Install Pressure Regulator Valve Kit (Oversized)	22741PAK
7	Converter Apply & Release Problems, Converter Codes	Replace TC Lock Up Clutch Regulator Valve Assembly	78741HRK
9	Lock Up Shudder, Soft TCC Apply	Replace Lock Up Valve Spring	A12741C-3
22	Lock Up Shudder During Lock Up Apply	Use Medium Stall Converter Instead Of Low Stall Converter	CR2
23	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Valve	D92540
24	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Valve (Splice Into Cooler Line)	D92540A
26	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Sure Cure Kit	S12174
32	Lock Up Shudder, Converter Overheat	Install Shift Correction Package	S22165
33	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Package	S22167
34	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Package	S22167A
35	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Kit (48RE Only)	S22167C
36	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Sure Cure Kit	S22174
37	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply	Replace 4 Spool Switch Valve	S22741A-1
38	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply	Replace 4 Spool Switch Valve (Oversized)	S22741AA-1
45	High Engine RPM Due To No Lock Up	Replace Lock Up Control Sleeve & Plunger Assembly	S33741GCK
46	Engine Stall On Engagement, Loss Of Lock Up, Increased RPM On Acceleration	Replace TCC Limit & Lube Valve Assembly	S33741GQK
76	Harsh Lock Up	Replace TCC Damper Valve & Sleeve Assembly	S68942-23K
77	Harsh TCC Engagement	Replace TCC Accumulator Valve Spring	S72741E-3
78	Converter Overheat, Low TCC Release Pressure	Replace TCC Limit Valve & Sleeve	S72741L-1
79	OEM Spring Breaks, Delayed Engagement, Engine Stall On Engagement	Replace TCC Limit Spring	S72741L-3
102	Converter Overheating	Replace Lubricating Pressure Control Valve Assembly	S78741P-1K
103	Converter Apply & Release Problems, Converter Codes	Replace TC Lock Up Clutch Regulator Valve Assembly	S78741QK
131	Lock Up Shudder & Failure, TCC Deflection & Lining Failure, Cooler Restriction Caused By Lining Material, Transmission or Converter Overheat	Install Sure Cure Kit	S92174

CHRYSLER

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
132	Erratic/No TCC, 2nd Gear Starts, Low/Reverse Switch Code, Worn Switch Valve Bore	Replace Solenoid Switch Valve Plug (Oversized)	S92741-2AK
133	Erratic/No TCC, 2nd Gear Starts, Low/Reverse Switch Code	Replace Solenoid Switch Valve Plug	S92741-2K
134	No TCC Apply, Wrong Gear Starts	Replace Solenoid Switch Valve Plug (Oversized)	S92741H-1
135	Lock Up Shudder & Failure, TCC Deflection & Lining Failure, Cooler Restriction Caused By Lining Material, Transmission/Converter Overheating	Replace Converter Regulator Valve Assembly	S92741PK
136	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Plug (1994-97 w/ Internal Bypass Valve)	S92761B-6
144	Lock Up Shudder, Converter Overheat, Converter Drainback, Engine Stall In Reverse	Install Shift Kit®	T22165
145	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Kit® (Gas & Diesel)	T22165B
146	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Kit®	T22167
147	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Reprogramming Kit™	T22169B
159	Harsh TCC Engagement, 2-3 Neutral, Drainback	Install Shift Kit®	T72165
160	Harsh TCC Engagement, 2-3 Neutral, Drainback	Install Reprogramming Kit™	T72169
172	Converter Drainback	Install Pressure Regulator Valve Kit	S22741P
177	Erratic TCC, No TCC, Low/Reverse Switch Code	Install Solenoid Switch Valve Plug Kit (Oversized)	S92741H

AISIN WARNER

AW 50-40LE, 50-42LE

 <p>VO28</p>	<p>DIA. (BOLT CIRCLE) 10.25" (9.5")</p> <p>NOTES Lock Up Med. Stall 1.25" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, .340" Tall</p> <p>APPLICATION CODES 1993-97 Volvo 850 2.3L, 2.4L 40A020, Q2, HO6, 16U</p>
 <p>TO67</p>	<p>DIA. (BOLT CIRCLE) 10.4" (9")</p> <p>NOTES Lock Up 1.75" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 1" Tall</p> <p>APPLICATION CODES 1989-Up Saab 9-3, 9-5 40A010, C8K19, VK09N</p>
 <p>TO69</p>	<p>DIA. (BOLT CIRCLE) 10.4" (9.34")</p> <p>NOTES Lock Up 1.25" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, .210" Tall</p> <p>APPLICATION CODES 1989-Up Saab 9-3, 9-5 40A030</p>
 <p>TO69B</p>	<p>DIA. (BOLT CIRCLE) 10.4" (9.375")</p> <p>NOTES Lock Up Med. Stall 1.00" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, .320" Tall</p> <p>APPLICATION CODES 1999-Up Saab 9-3 2.0L Turbo 40A600, XJ25N</p>
 <p>VO31</p>	<p>DIA. (BOLT CIRCLE) 11.125" (9.25")</p> <p>NOTES Lock Up Low Stall 1.30" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, .340" Tall</p> <p>APPLICATION CODES 1989-Up Saab 9-3, 9-5 42A010, 42A020, Q2, HO6, 16U</p>




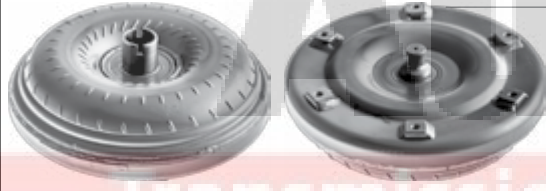


AISIN WARNER

AW 50-40LE, 50-42LE

 <p>TO68</p>	<p>DIA. (BOLT CIRCLE) 11.2" (9.6")</p> <p>NOTES Lock Up Low Stall 1.30" Tall Pilot .320" Tall Pads</p>	<p>PILOT .825"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 2002-Up Volvo S60 2.4L Turbo, S70 Y51, 43A012, 43A020, 43A021, 43A030, 43A220, 433</p>
 <p>TO8901</p>	<p>DIA. (BOLT CIRCLE) 11.15" (9.625")</p> <p>NOTES Lock Up Low Stall .520" Thick Pads</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 10mm x 1.5</p> <p>APPLICATION CODES 2000-05 Kia Carnival 42A040, 4204, 03</p>
 <p>TO8902</p>	<p>DIA. (BOLT CIRCLE) 11.3" (8.375")</p> <p>NOTES Lock Up Med. Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 2007-07 Suzuki Aerio, Forenza 2.3L 40A930, I02</p>
 <p>TO8903</p>	<p>DIA. (BOLT CIRCLE) 10.3" (8.375")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 2006-11 Suzuki SX4 2.0L 40B060, 14L, 16U</p>



AISIN WARNER

AW 55-50SN, 55-51SN

	TO77 DIA. (BOLT CIRCLE) 11.2" (9") NOTES Lock Up Low Stall	PILOT .810"	SPLINES 20	MOUNT 6 Pads APPLICATION CODES 2004-06 Maxima SE 3.5L, 05-06 Altima 3.5L 433, Y51, 437, 43A260, 43A261 TSB: 21, 128, 129, 130, 168, 178
	TO79L DIA. (BOLT CIRCLE) 11.125" (9.375") NOTES Lock Up Low Stall	PILOT .825"	SPLINES 20	MOUNT 3 Pads APPLICATION CODES 2005-07 Chevy Equinox 3.4L, 2003-04 Some Saturn ION, 02-03 Vue 3.0L 433, YOP, 43A160, AF33-5, 2E00192, Green Dot TSB: 21, 128, 129, 130, 168, 178
	TO79 DIA. (BOLT CIRCLE) 11.125" (9.375") NOTES Lock Up High Stall	PILOT .825"	SPLINES 20	MOUNT 3 Pads APPLICATION CODES 2003-04 Some Saturn ION 43A120, YO, 434 TSB: 21, 128, 129, 130, 168, 178
	TO78 DIA. (BOLT CIRCLE) 11.188" (9.25") NOTES Lock Up Low Stall	PILOT .825"	SPLINES 20	MOUNT 6 Pads APPLICATION CODES 2003-07 Some Saab 9-3, 9-5 43A080, 43A090, Y51, 431, 433 TSB: 21, 128, 129, 130, 168, 178
	TO68 DIA. (BOLT CIRCLE) 11.2" (9.6") NOTES Lock Up Low Stall	PILOT .825"	SPLINES 20	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 2002-Up Volvo S60 2.4L Turbo, S70 Y51, 431, 433, 43A012, 43A020, 43A021, 43A030, 43A220, 43A240, Blue Dot TSB: 21, 128, 129, 130, 168, 178
	VO28 DIA. (BOLT CIRCLE) 10.25" (9.5") NOTES Lock Up Med. Stall 1.25" Tall Pilot	PILOT .825"	SPLINES 26	MOUNT 6 Pads, .340" Tall APPLICATION CODES Volvo 850 2.3L, 2.4L 40A020, Q2, HO6, 16U TSB: 21, 128, 129, 130, 168, 178

AISIN WARNER

AW 60-40LE, 60-41E, AF13, AF17


 <p>TO62</p>	<p>DIA. (BOLT CIRCLE) 9.625" (8.4")</p> <p>NOTES Lock Up Med. to High Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 16</p>	<p>MOUNT 6 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 1995-02 Suzuki Esteem 1.6L, 1.8L 30A260, 30A340, 60A080</p>
 <p>TO62A</p>	<p>DIA. (BOLT CIRCLE) 9.625" (8.4")</p> <p>NOTES Lock Up Med. to High Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 16</p>	<p>MOUNT 6 Pads</p> <p>APPLICATION CODES 2003-Up Aerio 2.0L 30A340</p>

NOTES

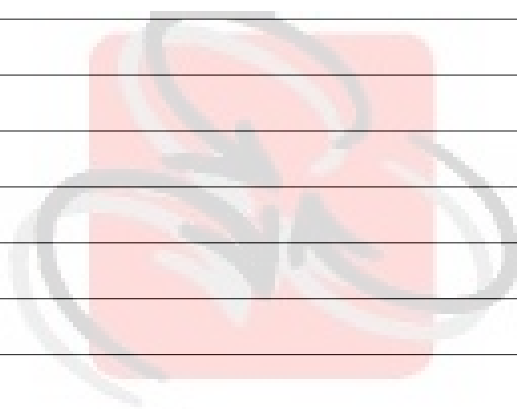
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Transmissions – Parts & Service

AISIN WARNER

AW80-40LE, AW81-40LE, U440E

GM1991		DIA. (BOLT CIRCLE) 9.2" (8.875")	PILOT .825"	SPLINES 16	MOUNT 3 Pads, 10mmx1.25
		NOTES Lock Up Med. Stall	APPLICATION CODES 2006-11 Aveo 1.4L 61A100, 2, 603		

NOTES






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Transmissions – Parts & Service

AISIN WARNER

AW 450-43LE

 <p>TO61B</p>	<p>DIA. (BOLT CIRCLE) 12.5" (9.631")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT .785"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads</p> <p>APPLICATION CODES 2000-01 Mitsubishi FUSO Diesel</p>
 <p>TO61</p>	<p>DIA. (BOLT CIRCLE) 12.5" (10.75")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT 1.572"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads</p> <p>APPLICATION CODES 1987-04 Isuzu NPR Truck (Cab Over) 4 Cyl. Diesel 5E11U</p>
 <p>TO63</p>	<p>DIA. (BOLT CIRCLE) 12.5" (10.69")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT 1.257"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 1999-Up Nissan (Cab Over Engine) 4 Cyl. Diesel Orange Paint Spots</p>

NOTES

Autrans Transmissions – Parts & Service

TRANSMISSION CODES

Unit	Code
01F.....	ZF4HP18
01J.....	Audi CVT
01L.....	ZF5HP24
01V.....	ZF5HP19
03-70.....	A42D
03-70L.....	A42DL
03-70LE.....	A42DE
03-71.....	A43D
03-71L.....	A43DL
03-71LE.....	A43DE
03-72L.....	A44DL
03-72LE.....	A44DE
09A.....	JF506E
09D.....	TR60SN
09E.....	ZF6HP26
09G.....	TF60SN
09L.....	ZF6HP19
125, 125C.....	3T40
125, 125C.....	M34, MD9
180, 180C.....	3L30
180, 180C.....	MD2, MD3
200, 200C.....	M29, MV9
200-4R.....	MW9
250, 250C.....	M31
2ML70.....	M99
30-40LE.....	AW4
30RH.....	A904
30TH.....	A404
31RH.....	A998
31TH.....	A413, 470, 670
325, 325-4L.....	M57
32RH.....	A999
350, 350C.....	M38, MV4, MX2
36RH.....	A727
37RH.....	A727
3L30.....	180, 180C
3L80.....	400
3T40.....	125, 125C
400.....	3L80
400.....	M40
40RH.....	A500
40TE.....	A604
41AE.....	A604
41TE.....	A604
41TES.....	A604
42LE.....	A606
42RE.....	A500
42RH.....	A500
440-T4.....	4T60
440-T4.....	ME9
44RE.....	A500
46RE.....	A518
46RH.....	A518
47RE.....	A618
47RH.....	A618
4EAT.....	Subaru 4 Spd
4F20E.....	RE4F04A
4F27E.....	FN4A-EL
4F50N.....	AX4N
4L30E.....	ML4
4L60.....	700-R4
4L60E.....	M30, M33

Unit	Code
4L65E.....	M32
4L70E.....	M70
4L80E.....	MT1
4L85E.....	MN8
4R70W.....	AODEW
4T40E.....	MN4
4T45E.....	ME7
4T45E.....	MN5
4T60.....	440-T4
4T60E.....	M13
4T65E.....	M76
4T65E.....	MN3
4T65E.....	MN7
4T80E.....	MH1
5EAT.....	Subaru 5 Spd
5L40E.....	M82
5L40E.....	MX5
5L50E.....	M22
5L50E.....	MV3
5R110W.....	TORQSHIFT
5R55S.....	5R55W
5R55W.....	5R55S
5T50E.....	M84
6L45.....	MYA
6L50.....	MYB
6L80.....	MYC
6L90.....	LY6
6L90.....	MYD
6T40.....	MH8
6T40.....	X23F
6T45.....	MH7
6T70.....	MH2
6T70.....	MH4
700-R4.....	4L60
700-R4.....	MD8
722.3.....	W4A040
722.4.....	W4A020
722.6.....	NAG1
722.6.....	W5A180
722.6.....	W5A330
722.6.....	W5A380
722.6.....	W5A580
722.6.....	W5A900
722.6.....	W5J400
722.9.....	NAG2
722.9.....	W7A700
722.9.....	W7B700
722.9.....	W7X550
A131.....	MX1
A210.....	MX17
A404.....	30TH
A413, A470.....	31TH
A42DE.....	03-70LE
A43DE.....	03-71LE
A44DE.....	03-72LE
A44DL.....	03-72L
A45X.....	AS68RC
A465.....	AS68RC
A500.....	40RH
A500.....	42RE
A500.....	44RE
A518.....	46RE

Unit	Code
A518.....	46RH
A5SR1.....	RE5R05A
A5SR2.....	RE5R05A
A604.....	40TE
A604.....	41AE
A604.....	41TE
A606.....	42LE
A618.....	47RE
A670.....	31TH
A727.....	36RH
A904.....	30RH
A998.....	31RH
A999.....	32RH
AF13.....	AW60-40LE
AF14.....	AW50-40LE
AF17.....	AW60-41SN
AF20.....	M92
AF21.....	TF-81SC
AF22.....	AW50-42LE
AF22.....	M93
AF33-5.....	AW55-50SN
AF33.....	M09
AF33.....	M45
AF40-6.....	TF-80SC
AF40.....	MXE
AF40.....	TF-80SC
AF55.....	ML3
AHS-T.....	2ML70
AL4.....	DPO
AODEW.....	4R70W
AOD.....	FIOD
AS68RC.....	A45X
AS68RC.....	A465
Audi CVT.....	01J
AVEO.....	AW80/81
AVEO.....	U440
AW4.....	A340
AW50-40LE.....	AF14
AW50-40LE.....	AF14-20
AW50-42LE.....	AF22
AW55-50SN.....	AF33-5
AW55-50SN.....	RE5F22A
AW60-40LE.....	AF13
AW60-40LE.....	M91
AW60-40LE.....	MC7
AW60-41SN.....	AF17
AW6A-EL.....	TF-81SC
AW80/81.....	AVEO
AW80/81.....	U440
AW80-40LE.....	MLQ
AX4N.....	4F50N
AX4S.....	AXODE
AXODE.....	AX4S
CD4E.....	LA4A-EL
CVTPE.....	HD-10
DPO.....	AL4
EC8.....	Subaru 4 Spd
F3A21-2.....	KM171-5
F3A22-2.....	KM172-5
F3A.....	KF100
F3A.....	MX-1
F4A21-2.....	KM176-5

TRANSMISSION CODES

Unit	Code
F4A21-1.....	KM176-5
F4A22-1.....	KM175-5
F4A22-2.....	KM175-5
F4A23-1.....	KM177-8
F4A23-2.....	KM177-8
F4A32.....	A4AF1
F4A32.....	A4AF2
F4A32.....	A4AF3
F4A32.....	A4BF1
F4A32.....	A4BF2
F4A41.....	F4A4B
F4A42.....	F4A4B
F4A4B.....	F4A41
F4A4B.....	F4A42
F4A51.....	F4A5A
F4A5A.....	F4A51
F4A-EL.....	F4EAT
F4A-EL.....	F4E-III
F5A51.....	F5A5A
F5A5A.....	F5A51
FIOD.....	AOD
FN4A-EL.....	4F27E
FNR5.....	FS5A-EL
FS5A-EL.....	FNR5
HD-10.....	CVTPSE
JA5A-EL.....	JF506E
JF009E.....	RE0F08A
JF010E.....	RE0F09A
JF011E.....	RE0F10A
JF506E.....	09A
JF506E.....	JA5A-EL
JF506E.....	RE5F01A
JF613E.....	F6AJA
JR405E.....	RC4A-EL
JR502E.....	RE5R01A
JR507E.....	RE5R05A
KF100.....	F3A
KM171-5.....	F3A21-2
KM172-5.....	F3A22-2
KM175-5.....	F4A22-1
KM175-5.....	F4A22-2
KM176-5.....	F4A21-2
KM177-8.....	F4A23-1
KM177-8.....	F4A23-2
L4N71B.....	N4A-EL
LA4A-EL.....	CD4E
LT1000.....	M74
LT1000.....	MW7
LT2400.....	MTW
LY6.....	6L90
M09.....	AF33
M13.....	4T60E
M15.....	4T65E
M22.....	5L50E
M29.....	200, 200C
M30.....	4L60E
M31.....	250, 250C
M32.....	4L65E
M33.....	4L60E
M34.....	125, 125C
M35.....	Powerglide
M38.....	350, 350C

Unit	Code
M40.....	400
M41.....	Subaru 3 Spd
M45.....	AF33
M57.....	325, 325-4L
M70.....	4L70E
M74.....	LT1000
M75.....	VT-20
M76.....	4T65E
M82.....	5L40E
M83.....	VT-20
M84.....	5T50E
M91.....	AW60-40LE
M92.....	AF20
M93.....	AF22
M99.....	2ML70
MC7.....	AW60-40LE
MD2.....	180, 180C
MD3.....	180, 180C
MD8.....	700-R4
MD9.....	125, 125C
ME7.....	4T45E
ME9.....	440-T4
MH1.....	4T80E
MH2.....	6T70
MH4.....	6T70
MH7.....	6T45
MH8.....	6T40
ML3.....	AF55
ML4.....	4L30E
MLQ.....	AW80-40LE
MN3.....	4T65E
MN4.....	4T40E
MN5.....	4T45E
MN7.....	4T65E
MN8.....	4L85E
MP6.....	TAAT
MP7.....	TAAT
MS7.....	A240
MT1.....	4L80E
MTW.....	LT2400
MV3.....	5L50E
MV4.....	350, 350C
MV9.....	200, 200C
MW7.....	LT1000
MW9.....	200-4R
MX17.....	A210
MX1.....	A131
MX-1.....	F3A
MX2.....	350, 350C
MX5.....	5L40E
MXE.....	AF40
MYA.....	6L45
MYB.....	6L50
MYC.....	6L80
MYD.....	6L90
N4A-EL.....	L4N71B
NAG1.....	722.6
NAG2.....	722.9
Powerglide.....	M35
R4A-EL.....	RE4R01A
R4AX-EL.....	Subaru 4 Spd
RC4A-EL.....	JR405E

Unit	Code
RE0F08A.....	JF009E
RE0F09A.....	JF010E
RE0F10A.....	JF011E
RE4F04A.....	4F20E
RE4F04A.....	LJ4A-EL
RE4R01A.....	JR402E
RE4R03A.....	RG4R01A
RE5F01A.....	JF506E
RE5F22A.....	AW55-50SN
RE5R01A.....	JR502E
RE5R05A.....	A5SR1
RE5R05A.....	A5SR2
RE5R05A.....	JR507E
RG4R01A.....	RE4R03A
RNJ.....	AW450-43LE
SJ6A-EL.....	A760E
Subaru 3 Spd.....	M41
Subaru 4 Spd.....	4EAT
Subaru 4 Spd.....	EC8
Subaru 4 Spd.....	R4AX-EL
Subaru 5 Spd.....	5EAT
TAAT.....	MP6
TAAT.....	MP7
TF-60SN.....	09G
TF-80SC.....	AF40-6
TF-81SC.....	AF21
TF-81SC.....	AW6A-EL
TORQSHIFT.....	5R110W
TR60SN.....	09D
VT-20.....	M75
VT-20.....	M83
VT25-E.....	VTi
VTi.....	VT25-E
VW095.....	01M
VW096.....	01M
VW097.....	01N
VW098.....	01P
W4A020.....	722.4
W4A040.....	722.3
W4A42.....	W4A4B
W4A4B.....	W4A42
W4A51.....	W4A5A
W4A5A.....	W4A51
W5A180.....	722.6
W5A330.....	722.6
W5A380.....	722.6
W5A580.....	722.6
W5A900.....	722.6
W5J400.....	722.6
W7A700.....	722.9
W7B700.....	722.9
W7X550.....	722.9
X23F.....	6T40
ZF4HP18.....	01F
ZF5HP19.....	01V
ZF5HP24.....	01L
ZF6HP19.....	09L
ZF6HP26.....	09E

HONDA

CODE CHART

Codes	Part	Codes	Part	Codes	Part	Codes	Part
04	HO3000	59	HO59	b	HO78	BWEA	HO3001
04	HO3001	5GA	HO68	B05	HO79	BYBA	HO80
13	HO57	5M	HO77	B36A	HO3000	BZKA	HO81
15	HO57	6	HO72	B36A	HO3001	C	HO61
19257717	HO82	6	HO80	B3X	HO72	C	HO67
215	HO69	602019	HO80	B3X06A3	HO72	C1A	HO69
216	HO69	602019E2-P8F	HO80	B46A	HO69	C2X17B17	HO80
24020031	GM24-6	61	HO61	B4H	HO72	C7X	HO79
24200145	GM85	68	HO68	B4H23A2	HO72	C8	HO64
24200319	GM24-6	6AA	HO72	B4RA	HO69	C8C	HO78
24210705	GM24-6	7	HO59	B5	HO79	C8C12144	HO78
24210708	GM24-6H	7	HO66	B5B	HO72	C8C121A4	HO78
24210713	GM24-6H	749	GM87	B5BM	HO72	CA	HO56
24210715	GM24-6H	8	HO58	b6	HO69	CA	HO58
24210868	GM87	8	HO61	B6K	HO78	CA	HO78
24210869	GM87	8680189	GM24	B6K29A7	HO78	CAO	HO69
24211068	GM87	8681486	GM85	B6VA	HO77	E	HO56
24211228	GM87	8b	HO77	B7GA	HO80	E	HO60
24211228	GM87CW	8b	HO78	B7MA	HO69	E11B	HO69
24211229	GM87	8C	HO79	B7MAJB4	HO69	E2	HO80
24211229	GM87CW	8F	HO80	B7TA	HO80	E2-P8F	HO80
24213406	GM87CW	8FC2X	HO80	B7UA	HO80	E7E	HO79
24213496	GM87CW	8P	HO80	B7VA	HO80	EA	HO77
24220869	GM87CW	8V21A93	HO80	B7WA	HO80	EH2	HO72
25	HO63	96041998	GM87	B7XA	HO79	EH23A	HO72
25	HO80	A	HO56	B7YA	HO80	F	HO58
25AR	HO63	A	HO64	BA	HO68	F4	HO60
25AR	HO80	A	HO69	BA	HO69	F4	HO61
27	HO62	A24A	HO69	BA	HO78	FB-6	HO66
27M	HO62	A2YA	HO69	BAA	HO81	FBAA	HO72
27N	HO62	A4RA	HO69	BAXA	HO66	FBO	HO66
2N	HO60	A4RNA	HO3003	BAXA	HO77	FEA	HO77
3	HO58	A5P72	HO69	BAXA	HO78	FM4	HO61
3K	HO65	A6VA	HO72	BAXA	HO79	G4	HO63
4	HO66	A8	HO64	BAYA	HO79	GA	HO77
4	HO77	AA0	HO72	BAYA2	HO79	GLLCXT	HO3000
4	HO79	AB	HO64	BB	HO69	GMA	HO3001
45	HO61	AB	HO69	BCA	HO77	GO4	HO66
45H	HO61	AJ	HO55	BCLA	HO81	GPLA	HO81
4A3	HO69	AK	HO55	BDGA	HO80	GPPA	HO81
4A3	HO80	AL	HO64	BDKA	HO82	H13	HO56
4B0	HO66	AOYA	HO72	BGFA	HO80	H15	HO56
4B1	HO55	APX4	HO66	BGHA	HO80	H16	HO56
4B6	HO66	AS	HO55	BGRA	HO80	H16C	HO56
4BC	HO66	AS	HO59	BJE	HO69	H2	HO3002
4BO	HO66	AYA	HO72	BJFA	HO3001	H57	GM24-6
4F	HO61	B	HO59	BMXA	HO69	HAM	HO56
4M	HO66	B	HO61	BO5	HO79	HI	HO81
4M	HO77	B	HO64	BOYA	HO72	HI3	HO56
5	HO62	B	HO69	BVGA	HO80	HI6	HO56
5	HO71	B	HO71	BVGA	HO82	HK2	HO56
5	HO79	b	HO72	BVLA	HO3001	HK3	HO56

HONDA

CODE CHART

Codes	Part	Codes	Part	Codes	Part	Codes	Part
HX15BA	HO77	MOYA	HO72	PGK	HO80	RJ	HO82
I	HO72	MP1A	HO77	PH4	HO61	RJA	HO3002
J	HO61	MP7A	HO69	PH4.5	HO61	RJE	HO3001
J	HO64	MPCA	HO3003	PI	HO64	RN	HO3003
J	HO66	MPJA	HO77	PL1	HO71	RNA	HO3003
J	HO79	MPOA	HO72	PL5	HO62	RNN	HO3003
JB4	HO69	MPRA	HO66	PL5X	HO62	RO	HO67
K	HO63	MPSA	HO64	PLM	HO68	RPP	HO81
K	HO80	MPWA	HO66	PLM	HO69	RWC	HO3001
K1	HO63	MPWA	HO71	PN	HO81	RWC5	HO3001
K1	HO65	MPXA	HO66	PN276580	HO81	RYP	HO3001
K2	HO65	MPYA	HO68	PN276581	HO81	S15	HO64
K3	HO65	MPZA	HO79	PNA	HO81	S16	HO64
K4	HO65	MR9A	HO74	PO	HO79	S4XA	HO66
L	HO66	MRMA	HO81	POG	HO79	S5	HO64
L	HO74	MRVA	HO81	PP	HO72	SDMA	HO69
L15	HO64	MY8A	HO65	PP	HO81	SE	GM24
L16	HO64	MYBA	HO66	PPF	HO81	SE9P	GM24
L4	HO64	MZHA	HO81	PR	HO74	SELP	GM24
L5	HO62	MZKA	HO81	PVJ	HO82	SF	GM24
LJ	HO79	N	HO62	PW4	HO71	SF	GM85
M	HO61	N0	HO55	PW5	HO71	SF6X	GM24
M	HO65	NA	HO81	PW7	HO71	SFHE	GM85
M	HO66	ND	HO81	PWA	HO71	SFHT	GM85
M	HO77	NO	HO55	PX4B	HO66	SFL7	GM85
M1WA	HO71	ON	HO55	PX4B	HO77	SFLP	GM24
M24A	HO69	OX1	HO80	PXL5	HO62	SFLT	GM85
M4	HO66	OX17C6	HO80	PY8A	HO65	SGHB	GM24-6
M4RA	HO69	P	HO65	q	HO72	SGHH	GM24-6
M4TA	HO69	P1	HO64	q	HO78	SGHR	GM24-6
M5DA	HO68	P36A	HO3000	R	HO59	SJ	GM24
M5HA	HO68	P36A	HO3001	R	HO68	SJ9K	GM24
M6HA	HO77	P4	HO55	R	HO71	SJHR	GM24-6H
M6HA	HO79	P5	HO69	R1	HO3002	SJHS	GM24
M7WA	HO80	P56	HO69	R18	HO67	SJLP	GM24
M7ZA	HO79	P5A	HO68	RA	HO72	SLF7	GM85
MAXA	HO77	P5G	HO68	RA	HO81	SLXA	HO69
MAXA	HO78	P5M	HO77	RAA	HO81	SP7A	HO69
MCTA	HO81	P5N	HO66	RAC	HO81	SPCA	HO3003
MCVA	HO81	P5PM	HO77	RAD	HO81	SPLT	GM85
MDKA	HO82	P72	HO69	RBB	HO81	T	HO72
MDLA	HO69	P8A	HO79	RBJ	HO81	T	HO74
MDMA	HO69	P8C	HO79	RD	HO82	U	HO79
MDPA	HO82	P8F	HO80	RDA	HO80	U15	HO79
MDRA	HO82	PAA	HO78	RDJ	HO82	Y	HO71
MDWA	HO66	PAA	HO79	RDJRD	HO82	Y4	HO68
MDWA	HO77	PCA	HO78	RGL	HO80	Y8	HO65
MGHA	HO80	PEA	HO78	RGLH	HO80	YCA	HO77
MJBA	HO3002	PEF	HO80	RGLY	HO3001		
MJBA	HO82	PFW	HO79	RGM	HO80		
MKZA	HO81	PG	HO80	RGMY	HO3001		
ML4A	HO64	PGC	HO80	RJ	HO3002		







HONDA

NO RING GEAR TO 107T RING GEAR

	HO68 DIA. (BOLT CIRCLE) 11.125" (9.875") NOTES No Ring Gear Clockwise Stator Threaded Pads 39 T, 1.55" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 23	MOUNT 6 Pads APPLICATION CODES 1991-96 Legend 3.2L, 1996-04 3.2TL, 3.5RL BA, M5DA, MPYA, PLM, Y4
	HO71 DIA. (BOLT CIRCLE) 9.965" (9.379") NOTES No Ring Gear Counter Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 19	MOUNT 8 Holes APPLICATION CODES 1992-94 Vigor 2.5L, 1995-98 Acura 2.5 TL MPWA, M1WA, PL1, PW4, PW7
	HO55 DIA. (BOLT CIRCLE) 10.5" (9.875") NOTES 103T Gear Counter Clockwise Stator Threaded Mount Ring 36 T, 1.43" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 19	MOUNT 8 Holes APPLICATION CODES 1980-85 Accord, 1984-87 Prelude exc F.I. AJ, AK, AS, NO, ON, P4 TSB: 170
	HO56 DIA. (BOLT CIRCLE) 10.5" (9.875") NOTES 103T Gear Counter Clockwise Stator Threaded Mount Ring 36 T, 1.43" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 19	MOUNT 8 Holes, 6mm x 1.0 APPLICATION CODES 1986-87 Civic 1.5L, CRX 1.5L, Integra 1.6L CA, HAM, H15, HK2 TSB: 170
	HO59 DIA. (BOLT CIRCLE) 10.5" (9.875") NOTES 103T Gear Counter Clockwise Stator Threaded Mount Ring 36 T, 1.43" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 19	MOUNT 8 Holes APPLICATION CODES 1983-85 Prelude 1.8L AS, 59

HONDA

NO RING GEAR TO 107T RING GEAR

 <p>HO57</p>	<p>DIA. (BOLT CIRCLE) 10.5" (9.875")</p> <p>NOTES 103T Gear Counter Clockwise Stator Threaded Mount Ring 36 T, 1.43" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 19</p>	<p>MOUNT 8 Holes</p> <p>APPLICATION CODES 1981-85 Civic, CRX 1.5L 13, 15</p> <p>TSB: 170</p>
 <p>HO58</p>	<p>DIA. (BOLT CIRCLE) 10.5" (9.875")</p> <p>NOTES 103T Gear Counter Clockwise Stator Threaded Mount Ring 36 T, 1.43" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 19</p>	<p>MOUNT 8 Holes</p> <p>APPLICATION CODES 1986-87 Civic, CRX 1.5L CA</p> <p>TSB: 170</p>
 <p>HO60</p>	<p>DIA. (BOLT CIRCLE) 10.5" (9.875")</p> <p>NOTES 103T Gear Counter Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 22</p>	<p>MOUNT 8 Holes</p> <p>APPLICATION CODES 1985-86 Accord, Prelude w/ F.I. F4</p>
 <p>HO61</p>	<p>DIA. (BOLT CIRCLE) 10.5" (9.875")</p> <p>NOTES 103T Gear Counter Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 22</p>	<p>MOUNT 8 Holes</p> <p>APPLICATION CODES 1986-89 Accord 2.0L, 1985-87 Prelude 2.0L F.I. F4</p> <p>TSB: 170</p>
 <p>HO64</p>	<p>DIA. (BOLT CIRCLE) 10.5" (9.875")</p> <p>NOTES 103T Gear Counter Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 19</p>	<p>MOUNT 8 Holes</p> <p>APPLICATION CODES 1988-89 Integra 1.6L, 1988-91 Civic 1.6L L4, ML4A, MPSA, P1, S5</p> <p>TSB: 170</p>
 <p>HO65</p>	<p>DIA. (BOLT CIRCLE) 10.875" (10.25")</p> <p>NOTES 107T Gear Counter Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 22</p>	<p>MOUNT 8 Holes</p> <p>APPLICATION CODES 1988-91 Prelude 2.0L K4, PY8A, MY8A</p> <p>TSB: 170</p>




HONDA

109T TO 114T RING GEAR

	HO69 DIA. (BOLT CIRCLE) 10.5" (9.875") NOTES 109T Gear Counter Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 22	MOUNT 8 Holes APPLICATION CODES 1994-98 Integra, 92-97 Del Sol, 97-98 CR-V, 92-05 Civic A2YA, A24A, A4RA, B46A, B4RA, BMXA, M24A, M4RA, M4TA, MP7A, MDLA, MDMA, SDMA, SLXA, SP7A TSB: 170
	HO72 DIA. (BOLT CIRCLE) 9.625" (9.865") NOTES 114T Gear Counter Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 22	MOUNT 8 Holes APPLICATION CODES 1994-97 Accord 1.8L, 2.2L, 1996-97 2.2CL AOYA, A6VA, BOYA, MPOA
	HO66 DIA. (BOLT CIRCLE) 10.063" (10.25") NOTES 114T Gear Counter Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 22	MOUNT 8 Holes, 6mm x 1.0 APPLICATION CODES 1989-93 Accord, 1992 Prelude, 91-98 Integra APX4, PX4B, MPRA, MPXA, MPWA, MYBA, S4XA TSB: 170
	HO78 DIA. (BOLT CIRCLE) 10.063" (10.25") NOTES 114T Gear x .275" Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 22	MOUNT 8 Holes, 6mm x 1.0 APPLICATION CODES 1998-Up Accord 4 Cyl BAXA, MAXA, PAA, PCA, PEA TSB: 170
	HO77 DIA. (BOLT CIRCLE) 10.063" (10.25") NOTES 114T Gear x .350" Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 22	MOUNT 8 Holes, 6mm x 1.0 APPLICATION CODES 1997-Up Prelude 4 Cyl, Acura 2.3CL, 1995-98 Odyssey, Oasis 2.2L 5M, BAXA, B6VA, EA, FEA, MAXA, MDWA, MPJA, MP1A, PX4B TSB: 170
				HO77 - .355" Thick Ring Gear HO78 - .275" Thick Ring Gear HO77 - 2.600" Flanged Impeller Hub HO78 - 3.075" Flanged Impeller Hub

HONDA

109T TO 114T RING GEAR

	HO67 DIA. (BOLT CIRCLE) 10.5" (9.875") NOTES 114T Gear Counter Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 22	MOUNT 8 Holes APPLICATION CODES 1990-93 Integra 3.8L RO, R18
	HO63 DIA. (BOLT CIRCLE) 10.5" (10.875") NOTES 114T Gear Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 22	MOUNT 8 Holes APPLICATION CODES 1986-87 Legend 2.5L G4 TSB: 170
	HO62 DIA. (BOLT CIRCLE) 10.5" (10.875") NOTES 114T Gear Clockwise Stator Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included	PILOT .945"	SPLINES 22	MOUNT 8 Holes APPLICATION CODES 1987-90 Legend 2.7L, Sterling L5, PL5X TSB: 170

Autrans
Transmissions – Parts & Service

HONDA

118T TO 121T RING GEAR

 <p>HO74</p>	<p>DIA. (BOLT CIRCLE) 10.75" (11.25")</p> <p>NOTES 118T Gear Threaded Mount Ring 39 T, 1.55" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 23</p>	<p>MOUNT 8 Holes, 6mm x 1.25</p>
<p>APPLICATION CODES 1991-05 NSX 3.0L MR9A</p> <p>TSB: 170</p>				
 <p>HO81</p>	<p>DIA. (BOLT CIRCLE) 10" (10.8")</p> <p>NOTES 119T Gear Clockwise Stator Threaded Ring Gear 38 T, 1.52" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 22</p>	<p>MOUNT 8 Holes, 6mm x 1.0</p>
<p>APPLICATION CODES 2002-06 RSX 2.0L, Accord 2.4L, Element 2.4L, 2004-08 TSX 2.4L BAA, BCLA, BZKA, MCTA, MRMA, MZHA, MZKA, RA</p> <p>TSB: 170</p>				
 <p>HO79</p>	<p>DIA. (BOLT CIRCLE) 10.5" (10.875")</p> <p>NOTES 121T Gear Threaded Mount Ring 38 T, 1.52" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 22</p>	<p>MOUNT 8 Holes, 6mm x 1.0</p>
<p>APPLICATION CODES 1997-02 Accord V6, 1992-98 Prelude, 1996-99 3.0CL 8C, BAYA, B7XA, MPZA, M6HA, M7ZA, POG, PFW</p> <p>TSB: 170, 171</p>				
 <p>HO80</p>	<p>DIA. (BOLT CIRCLE) 10.875" (11.25")</p> <p>NOTES 121T Gear Clockwise Stator Threaded Mount Ring 38T, 1.52" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 22</p>	<p>MOUNT 8 Holes, 6mm x 1.0</p>
<p>APPLICATION CODES 99-04 Odyssey 3.5L, 04-08 3.2TL, 01-02 MDX, 03-06 Pilot 8F, B7GA, B7TA, B7UA, B7VA, B7WA, B7YA, BDGA, BGFA, BGHA, BGRA, BYBA, BVGA, M7WA, MGHA, RDA, RGL</p> <p>TSB: 170, 171</p>				







HONDA

131T RING GEAR

 <p>HO82</p>	<p>DIA. (BOLT CIRCLE) 11.25" (12")</p> <p>NOTES 131T Gear Clockwise Stator Threaded Ring Gear 39T, 1.810"-1.652" OD Hub O-Ring Not Included Replaces HO3002</p>	<p>PILOT .945"</p>	<p>SPLINES 22</p>	<p>MOUNT 8 Holes, 6mm x 1.0</p> <p>APPLICATION CODES 2003-06 MDX 3.5L, 2005-11 RL 3.5L, VUE Does Not Fit Ridgeline BDKA, MDKA, MDPA, MDRA, MJBA, RD, RDJ, RJ, RJA TSB: 171, 189</p>
 <p>HO3001</p>	<p>DIA. (BOLT CIRCLE) 11.25" (12")</p> <p>NOTES 131T Gear Clockwise Stator Threaded Ring Gear 39T, 1.810"-1.652" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 22</p>	<p>MOUNT 8 Holes, 6mm x 1.0</p> <p>APPLICATION CODES 2007-11 RDX 2.3L BWEA, BVLA, GMA, RJE, RWC, RGMV, RYP TSB: 170, 189</p>
 <p>HO3003</p>	<p>DIA. (BOLT CIRCLE) 9.625" (10.5")</p> <p>NOTES 131T Gear Clockwise Stator Threaded Ring Gear 38T, 1.732"-1.573" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 22</p>	<p>MOUNT 8 Holes, 6mm x 1.0</p> <p>APPLICATION CODES 2006-10 Civic 1.8L, 2.0L MPCA, RNA, SPCA TSB: 170</p>
 <p>HO3000</p>	<p>DIA. (BOLT CIRCLE) 11.25" (12")</p> <p>NOTES 131T Gear Clockwise Stator Threaded Ring Gear 39T, 1.810"-1.612" OD Hub O-Ring Not Included</p>	<p>PILOT .945"</p>	<p>SPLINES 22</p>	<p>MOUNT 8 Holes, 6mm x 1.0</p> <p>APPLICATION CODES 2007-11 Odyssey 3.5L 04, B36A, GLLCXT, P36A TSB: 189</p>







HYUNDAI

	KM10HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Holes APPLICATION CODES KM Series, 1991-95 Elantra, 1989-90 Laser, 1990-98 Sonata 51, 56, S2, S4, Some X4 TSB: 104
	KM11HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Pads APPLICATION CODES KM Series 71, P2, W2, H2, Some X4 TSB: 104
	KM12BHD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up M464MB Bolts 2200-2800 Stall 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Holes, 10mm x 1.25 APPLICATION CODES KM Series, 1986-01 Accent, Elantra, Sonata, Tiburon 33, 54, 56, 68, b3, b4, b5, F2, 1F, 1Q, HQ, RM TSB: 104
	KM12HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up M464MA Bolts 2200-2800 Stall 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Holes, 10mm x 1.5 APPLICATION CODES KM Series, 1986-01 Accent, Elantra, Sonata, Tiburon 4b, 52, 76, IF, IQ, KF, KH, KJ, KV, V6 TSB: 104
	KM23 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES KM Series, F4A41, 1993-Up Elantra 2.0L JB, 3b TSB: 104
	KM8HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up 106T Ring Gear	PILOT 1.060"	SPLINES 24	MOUNT 3 Pads APPLICATION CODES KM Series, 1985-91 Hyundai 1.5L A2



	KM7HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up 106T Ring Gear	PILOT 1.060"	SPLINES 24	MOUNT 3 Holes APPLICATION CODES KM Series, 1983-88 Tredia, 1989-91 Sonata C2, C4, D2, E4, E6, H4
	KM9 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Non Lock Up High Stall 106T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES KM Series, 1988-92 Sonata 3.0L (KM175-177) A1, G7, Some V7
	KM19 DIA. (BOLT CIRCLE) 10.125" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 6 Holes, 8mm x 1.25 APPLICATION CODES KM Series 1990-95 22 TSB: 104
	KM28M DIA. (BOLT CIRCLE) 10.875" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES R/V4A51, 2001-06 Sante Fe 2.4L, 2.7L LB, LC, LE TSB: 104
	KM16CHD DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES KM Series, 1992-98 Sonata 3.0L 3X TSB: 104
	KM25 DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Med. to High Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES F4A41, R/V4A41, 1999-03 Sonata 2.4L, 2005 Tucson 2.7L. (Works w/ or w/o Pilot Sleeve) 4C, YB, YB-K, YC TSB: 104

HYUNDAI

	KM31M DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Med. to High Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES F5A51, 2000-06 Sante Fe 3.5L 6L TSB: 104
	KM29 DIA. (BOLT CIRCLE) 10.93" (8.75") NOTES Lock Up High Stall	PILOT 1.060"	SPLINES 20	MOUNT 4 Holes, 10mm x 1.25 APPLICATION CODES F4A41, 2001-06 Sante Fe 2.4L, 2.7L YE
	KM39A DIA. (BOLT CIRCLE) 10.97" (8.75") NOTES Lock Up Flats on Hub Low Stall	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES A5HF1, 2006-10 Sedona, Sonata, Azera 3.8L TG, TH TSB: 104
	KM40 DIA. (BOLT CIRCLE) 11" (8.75") NOTES Lock Up Low Stall	PILOT 1.335"	SPLINES 20	MOUNT 6 Holes, 10mm x 1.25 APPLICATION CODES F5A51, 2000-07 Sante Fe 2.2L Turbo Diesel, 3.3L, 3.5L TF TSB: 104
	KM34 DIA. (BOLT CIRCLE) 11.1" (8.775") NOTES Lock Up Low Stall	PILOT 1.335"	SPLINES 23	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES A6LF1, 2009-Up Hyundai ZA, 1008280456

	KM12BHD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up M464MB Bolts 2200-2800 Stall 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Holes, 10mm x 1.25 APPLICATION CODES KM Series, 1986-01 Sonata 33, 54, 56, 68, b3, b4, b5, F2, 1F, 1Q, HQ, RM TSB: 104
	KM12HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up M464MA Bolts 2200-2800 Stall 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Holes, 10mm x 1.5 APPLICATION CODES KM Series, 1986-01 Sonata 4b, 52, 76, 1F, IQ, KF, KH, KJ, KV, V6 TSB: 104
	KM23 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES KM Series, F4A41, 1993-Up JB, 3b TSB: 104
	DA26 DIA. (BOLT CIRCLE) 10" (9") NOTES Lock Up High Stall	PILOT .825"	SPLINES 21	MOUNT 4 Studs APPLICATION CODES F4A-EL, 2001-05 Rio 1.6L, 2001 Sephia 1.6L, 2000-04 Spectra 1.8L 00L28N121, Blue Paint w/ Green Dot TSB: 11, 152
	KM41 DIA. (BOLT CIRCLE) 10.125" (8.75") NOTES Lock Up Low Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES A5GF1, 2006-10 Optima 2.4L A5GF1, FB TSB: 104
	TO65 DIA. (BOLT CIRCLE) 10.3" (9") NOTES Lock Up .500" Tall Pads Pilot Stepped .825" to 1.257"	PILOT 1.257"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES A44DE, 1995-02 Sportage 2.0L 04, 09, A44DE

	KM28M DIA. (BOLT CIRCLE) 10.875" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES R/V4A51, 2001-06 Sedona LB, LC, LE TSB: 104
	DA67 DIA. (BOLT CIRCLE) 10.875" (9.1") NOTES Lock Up Low Stall	PILOT .748"	SPLINES 24	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES RE5R05A, 2005-06 Sorento 3.5L RA, KAP, ECRA TSB: 74, 75, 158
	KM25 DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Med. to High Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES F4A41, R/V4A41 (Works w/ or w/o Pilot Sleeve) 4C, YB, YB-K, YC TSB: 104
	KM39A DIA. (BOLT CIRCLE) 10.97" (8.75") NOTES Lock Up Flats on Hub Low Stall Hollow Pilot	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES A5HF1, 2006-10 Sedona 3.8L TG, TH TSB: 104
	KM49 DIA. (BOLT CIRCLE) 10.975" (8.75") NOTES Lock Up Slotted Hub Low Stall	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES A5HF1, 2006-11 Sedona 3.8L TC TSB: 104
	KM39 DIA. (BOLT CIRCLE) 11" (8.688") NOTES Lock Up Flats on Hub Low Stall Hollow Pilot	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES A5HF1, 2006-11 Sedona 3.8L TC TSB: 104

		TO8901 DIA. (BOLT CIRCLE) 11.15" (9.625")	PILOT .825"	SPLINES 26	MOUNT 6 Pads, 10mm x 1.5
NOTES Lock Up Low Stall .520" Thick Pads			APPLICATION CODES AW50-42LE, 2000-05 Kia Carnival 42A040, 4204, 03 (AW 50-40LE, 50-42LE)		
		TO97 DIA. (BOLT CIRCLE) 11.4" (8.5")	PILOT .748"	SPLINES 20	MOUNT 6 Pads
NOTES Lock Up Slightly Low Stall			APPLICATION CODES A30-40LE, 2002-04 Sorento 3.5L 11, 2048, Green Circle		







The logo for Autrans Transmissions - Parts & Service. It features a stylized red and grey circular emblem at the top. Below the emblem, the word "Autrans" is written in a large, bold, grey sans-serif font. Underneath "Autrans", the words "Transmissions - Parts & Service" are written in a smaller, black sans-serif font. The entire logo is centered on a white background.

MAZDA F4A, G4A, GF4A QUICK REFERENCE GUIDE

Codes:	Part #	Diameter	Pilot	Splines	Paint Code
R35	DA15	10.5"	1.375"	25	N/A
R35PC, R40PD, R40PB	FM65	10.5"	1.375"	21	N/A
R35B (21 Splines, .825" Pilot)	FM65A	10.5"	.825"	21	N/A
R35B (21 Splines, 1.375" Pilot)	FM65	10.5"	1.375"	21	N/A
R35B (25 Splines, 1.375")	DA15LS	10.5"	1.375"	25	N/A
R40B (21 Splines, .825" Pilot)	FM65A	10.5"	.825"	21	N/A
R40B (21 Splines, 1.375" Pilot)	FM65	10.5"	1.375"	21	N/A
R40B (25 Splines, 1.375")	DA15LS	10.5"	1.375"	25	N/A
FU9A	FM84	10.5"	.825"	21	N/A
FU9B	FM85	10.75"	.825"	21	N/A
FU9F	FM84	10.5"	.825"	21	N/A
FU31F	FM65	10.5"	1.375"	21	N/A
FU80A	FM65A	10.5"	.825"	21	N/A
GF01, G401	FM85	10.75"	.825"	21	N/A
Q17F	FM82	11"	.825"	21	N/A
Q17FP, Q17PF	FM87	10"	1.375"	21	Pink & White Dot
Q17G	FM86	10.5"	.825"	21	Blue w/ White Dot
Q20	DA17HD	10"	.785"	21	Green Dot
Q20F	DA17F	10"	.825"	21	2 White Dots
Q20G	DA17A	10"	.825"	21	2 Pink Dots
Q22G	FM86	10.5"	.825"	21	Blue w/ White Dot
Q25, P141	FM83	10"	1.375"	21	2 Yellow Dots
Q25E, Q25F, Q25G	DA18	10"	.825"	21	2 Orange Dots
94A	DA18	10"	.825"	21	2 Orange Dots
N/A	DA26	10"	.825"	21	Blue Paint Swatch
N/A	DA30	10"	.825"	21	1 White Dot
N/A	DA57	11"	1.375"	21	Yellow w/ Black Dot







MAZDA

F4A-EL, GFA-EL, GF4A-EL

 <p>DA17HD</p>	<p>DIA. (BOLT CIRCLE) 10" (9")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT .785"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1988-89 MX6 1.6L, 323, 626 Q20, Green Dot</p> <p>TSB: 11, 152</p>
 <p>DA17A</p>	<p>DIA. (BOLT CIRCLE) 10" (9")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1990-Up MX3, MX6, 323, Protege Q20G, 2 Pink Dots</p> <p>TSB: 11, 152</p>
 <p>DA26</p>	<p>DIA. (BOLT CIRCLE) 10" (9")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 2001-05 Rio 1.6L, 2000-04 Spectra 1.8L, Protege, 2001 Sephia 1.6L 00L28N121, Blue Paint w/ Green Dot</p> <p>TSB: 11, 152</p>
 <p>DA17F</p>	<p>DIA. (BOLT CIRCLE) 10" (9")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs, 10mm x 1.0</p> <p>APPLICATION CODES 1990-94 Protege, 323 Q20F, 2 White Dots or Paint</p> <p>TSB: 11, 152</p>
 <p>DA18</p>	<p>DIA. (BOLT CIRCLE) 10" (9")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1990-Up MX3, MX6, 323, Protege Q25E, Q25F, Q25G, 94A, 2 Orange Dots</p> <p>TSB: 11, 152</p>
 <p>DA30</p>	<p>DIA. (BOLT CIRCLE) 10" (9")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs, 10mm x 1.0</p> <p>APPLICATION CODES 1997 Protege 1.9L White Paint w/ Black Dot</p> <p>TSB: 11, 152</p>






MAZDA

F4A-EL, GFA-EL, GF4A-EL

	FM83 DIA. (BOLT CIRCLE) 10" (9") NOTES Lock Up Med. Stall	PILOT 1.375"	SPLINES 21	MOUNT 4 Studs	APPLICATION CODES 1992-94 323 Q25, P141, 2 Yellow Dots TSB: 11, 152
	FM87 DIA. (BOLT CIRCLE) 10" (9") NOTES Lock Up High Stall	PILOT 1.375"	SPLINES 21	MOUNT 4 Studs	APPLICATION CODES Q17FP, Q17PF Pink & White Dot TSB: 11, 152
	FM84 DIA. (BOLT CIRCLE) 10.5" (9") NOTES Lock Up Med. Stall	PILOT .825"	SPLINES 21	MOUNT 4 Studs	APPLICATION CODES 1993-97 Probe 2.0L MX6, 626 2.5L FU9A, FU9F TSB: 11, 152
	FM86 DIA. (BOLT CIRCLE) 10.5" (9") NOTES Lock Up High Stall	PILOT .825"	SPLINES 21	MOUNT 4 Studs	APPLICATION CODES 1990-97 Probe 3.0L Awd, Protege Awd Q17G, Q22G, Blue Paint w/ White Dot TSB: 11, 152
	FM65A DIA. (BOLT CIRCLE) 10.5" (9") NOTES Lock Up High Stall	PILOT .825"	SPLINES 21	MOUNT 4 Studs	APPLICATION CODES 1989-93 Probe 3.0L FU80A, R35B Some, R40B Some TSB: 11, 152
	FM65 DIA. (BOLT CIRCLE) 10.5" (9") NOTES Lock Up Low Stall	PILOT 1.375"	SPLINES 21	MOUNT 4 Studs	APPLICATION CODES 1989-93 Probe 3.0L, 1988-90 MX6, 626 FU31F, R35B Some, R35PC, R40B Some, R40PB, R40PD TSB: 11, 152

MAZDA

F4A-EL, GFA-EL, GF4A-EL

 <p>DA15LS</p>	<p>DIA. (BOLT CIRCLE) 10.5" (9")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT 1.375"</p>	<p>SPLINES 25</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1987-91 626, Protege 2.0L R35B Some, R40B Some</p> <p>TSB: 11, 152</p>
 <p>DA15</p>	<p>DIA. (BOLT CIRCLE) 10.5" (9")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT 1.375"</p>	<p>SPLINES 25</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1986-89 323, 626, Protege 1.6L, 1.8L R35</p> <p>TSB: 11, 152</p>
 <p>FM85</p>	<p>DIA. (BOLT CIRCLE) 10.75" (9")</p> <p>NOTES Lock Up Med. Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 1993-01 626, MX6, Millenia Probe 2.5L FU9B, GF01, G401</p> <p>TSB: 11, 152</p>
 <p>FM82</p>	<p>DIA. (BOLT CIRCLE) 11" (9")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES Q17F</p> <p>TSB: 11, 152</p>
 <p>DA57</p>	<p>DIA. (BOLT CIRCLE) 11" (9")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT 1.375"</p>	<p>SPLINES 21</p>	<p>MOUNT 4 Studs</p> <p>APPLICATION CODES 2000-01 Mazda MPV 2.5L (GF4A-EL) Yellow Paint w/ Black Dot</p>




MAZDA

FN4A-EL, 4F27E

	DA54 DIA. (BOLT CIRCLE) 10.2" (8.875") NOTES Lock Up Med. to High Stall 1" Tall Pilot	PILOT .825"	SPLINES 16	MOUNT 4 Studs, 10mm x 1.0 APPLICATION CODES 2000-07 Focus 2.0L, 2.3L, 1999-04 Protege 1.6L 0316C, 0320C, 0329C, 2209C, 2Z09C, White Paint (No Dot)
	DA54M DIA. (BOLT CIRCLE) 10.2" (8.875") NOTES Lock Up Med. Stall 1" Tall Pilot	PILOT .825"	SPLINES 16	MOUNT 4 Studs, 10mm x 1.0 APPLICATION CODES 2000-07 Focus 2.0L, 2.3L, 1999-04 Protege 1.6L Light Purple Paint
	DA55 DIA. (BOLT CIRCLE) 10.25" (9") NOTES Lock Up Slightly High Stall 1" Tall Pilot	PILOT .825"	SPLINES 16	MOUNT 4 Welded Studs APPLICATION CODES 2000-07 Focus 2.0L, 2.3L, 1999-04 Protege 1.6L, Some 1.8L Green Paint w/ Black Dot, White Paint w/ Blue Dot, Yellow Paint w/ Black Dot
	DA55A DIA. (BOLT CIRCLE) 10.25" (9") NOTES Lock Up Low Stall 1" Tall Pilot	PILOT .825"	SPLINES 16	MOUNT 4 Welded Studs APPLICATION CODES 1999-04 Protege 2.0L Green Paint w/ Black Dot
	DA55B DIA. (BOLT CIRCLE) 10.25" (9") NOTES Lock Up High Stall 1.5" Tall Pilot	PILOT .825"	SPLINES 16	MOUNT 4 Studs APPLICATION CODES 2004-07 Mazda 3 (2.0L) K3

MAZDA

FN4A-EL, 4F27E

 <p>DA58</p>	<p>DIA. (BOLT CIRCLE) 10.9" (9")</p> <p>NOTES Lock Up Med. Stall Reduced Primary, 1" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 16</p>	<p>MOUNT 4 Welded Studs</p> <p>APPLICATION CODES 2003-05 Mazda 6 2.3L FNE2, FNE4</p>
 <p>DA64</p>	<p>DIA. (BOLT CIRCLE) 10.9" (9")</p> <p>NOTES Lock Up Low Stall Reduced Primary, 1.275" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 16</p>	<p>MOUNT 4 Studs, 10mm x 1.0</p> <p>APPLICATION CODES 2004-07 Mazda 3 2.3L, 2003-05 Mazda 6 2.3L FNK2, J4, K2</p>
 <p>DA65</p>	<p>DIA. (BOLT CIRCLE) 10.9" (9")</p> <p>NOTES Lock Up Low Stall Reduced Primary, 1.5" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 16</p>	<p>MOUNT 4 Studs, 10mm x 1.0</p> <p>APPLICATION CODES 2007 Mazda 5 (2.3L) FNJ4, J4</p>

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Mazda

The image shows a logo for 'Autrans'. At the top is a red square with a grey circular arrow design inside it. Below this is the word 'Autrans' in a large, bold, grey sans-serif font. Underneath 'Autrans' is a horizontal red bar containing the text 'Transmissions – Parts & Service' in a white sans-serif font. The entire logo is centered on a white background.



VISUAL DIFFERENCES IN VARIOUS LATE MODEL JATCO CONVERTERS



Early impeller with 3
rows of ribs



Late impeller with 2
rows of ribs

A number of late model JATCO style torque converters have 2 rows of ribs instead of 3 rows of ribs, and/or 'solid' pilots in lieu of 'hollow' pilots. These converters are dimensionally and functionally the same.

When ordering a JATCO converter like this one, the converter in the box may have 2 or 3 rows of ribs, as well as a solid or hollow pilot.




Early front cover with
'hollow' style pilot



Late front cover with
'solid' style pilot

MAZDA

JF506E, 09A

	DA85 DIA. (BOLT CIRCLE) 10.8" (9.25")	PILOT 1.375"	SPLINES 20	MOUNT 3 Studs, 10mm x 1
NOTES Lock Up Low Stall		APPLICATION CODES 2002-06 Mazda MPV 3.0L 71, 087, F1, 71 TSB: 179, 180, 181		
	DA85L DIA. (BOLT CIRCLE) 10.8" (9.25")	PILOT 1.375"	SPLINES 20	MOUNT 3 Studs, 10mm x 1
NOTES Lock Up Med. Stall		APPLICATION CODES 2003-05 Mazda 6 3.0L 70, 70 TSB: 179, 180, 181		
	DA70 DIA. (BOLT CIRCLE) 10.8" (9.5")	PILOT 1.375"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25
NOTES Lock Up Med. Stall		APPLICATION CODES 2002-07 Jaguar 2.5L T4 TSB: 179, 180, 181		
	DA80 DIA. (BOLT CIRCLE) 10.8" (9.5")	PILOT 1.375"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25
NOTES Lock Up Low Stall		APPLICATION CODES 2002-07 Jaguar 3.0L t3, T3 TSB: 179, 180, 181		
	DA75 DIA. (BOLT CIRCLE) 10.8" (9.5")	PILOT .785"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25
NOTES Lock Up Med. Stall		APPLICATION CODES 2002-05 Freelander 2.5L I7, I7 TSB: 179, 180, 181		

MAZDA

JF506E, 09A

 <p>VW9800</p>	<p>DIA. (BOLT CIRCLE) 10.125" (9.25")</p> <p>NOTES Lock Up Med. Stall 114T Ring Gear Replaces DA90, VW0980</p>	<p>PILOT .825"</p>	<p>SPLINES 20</p>	<p>MOUNT 3 Studs, 10mm x 1.0</p> <p>APPLICATION CODES 2000-05 Jetta 1.8L (Not 2.8L) DCD, J, J4, JC7, JP, Yellow Paint w/ White Dot</p> <p>TSB: 179, 180, 181</p>
 <p>VW9801</p>	<p>DIA. (BOLT CIRCLE) 10.75" (9.25")</p> <p>NOTES Lock Up Med. Stall 114T Ring Gear Replaces VW0981</p>	<p>PILOT .825"</p>	<p>SPLINES 20</p>	<p>MOUNT 3 Studs, 10mm x 1.0</p> <p>APPLICATION CODES 2002-03 Jetta 2.8L Gas ≠19</p> <p>TSB: 179, 180, 181</p>
 <p>VW9802</p>	<p>DIA. (BOLT CIRCLE) 10.75" (9.25")</p> <p>NOTES Lock Up Low Stall 114T Ring Gear Replaces VW0982</p>	<p>PILOT .825"</p>	<p>SPLINES 20</p>	<p>MOUNT 3 Studs, 10mm x 1.0</p> <p>APPLICATION CODES 2004-08 Jetta 1.9L Diesel ≠23</p> <p>TSB: 179, 180, 181</p>







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MERCEDES

722.3, 722.5

	MB33 DIA. (BOLT CIRCLE) 11.25" (9") NOTES Non Lock Up Med. Stall	PILOT 1.375"	SPLINES 22	MOUNT 3 Pads APPLICATION CODES 1981-91 300 Series, S500, 1989 300SEL 124-250-0002, 124-250-0302, 124-250-0902, 124-250-1002, 124-250-1702
	MB32 DIA. (BOLT CIRCLE) 11.25" (9") NOTES Non Lock Up Med. Stall 1.38" Tall Pilot	PILOT 1.375"	SPLINES 22	MOUNT 3 Pads APPLICATION CODES 1981-91 300 Series 126-250-0002, 126-250-0902, 126-250-1302
	MB30 DIA. (BOLT CIRCLE) 11.25" (9") NOTES Non Lock Up Med. Stall 1.5" Tall Pilot	PILOT 1.375"	SPLINES 22	MOUNT 3 Pads APPLICATION CODES 1981-91 280 & 300 Series, 300SD Turbo 126-250-0145, 126-250-1502, 126-250-1602, 126-250-1702, 126-250-2302
	MB38 DIA. (BOLT CIRCLE) 11.25" (10.5") NOTES Non Lock Up 1.5" Tall Pilot	PILOT 1.375"	SPLINES 22	MOUNT 3 Pads APPLICATION CODES 1981-91 280 & 300 Series, 300SDL, 300SEL 126-250-1202, 126-250-1402
	MB43 DIA. (BOLT CIRCLE) 12.25" (9") NOTES Non Lock Up Med. Stall 1" Tall Pilot	PILOT 1.375"	SPLINES 22	MOUNT 3 Pads APPLICATION CODES 1981-91 280 & 300 Series, 1988 Porsche 928 5.0L 722-250-0602
	MB37 DIA. (BOLT CIRCLE) 12.25" (10.5") NOTES Non Lock Up 1.21" Tall Pilot	PILOT 1.375"	SPLINES 22	MOUNT 3 Pads APPLICATION CODES 1981-91 380, 400E, 420, 500SL, 560SL/SEL, 600SEL 071-202-2620, 126-250-1102, 126-250-3402

MERCEDES

722.4

	MB39 DIA. (BOLT CIRCLE) 10" (9") NOTES Non Lock Up	PILOT 1.375"	SPLINES 19	MOUNT 3 Pads APPLICATION CODES 1983-90 190E Gas, 190 Diesel 123-250-0202
	MB40 DIA. (BOLT CIRCLE) 11.5" (9") NOTES Non Lock Up Low Stall	PILOT 1.375"	SPLINES 19	MOUNT 3 Pads APPLICATION CODES 1983-90 190E Gas, 190 Diesel, 300D 201-250-0402
	MB42 DIA. (BOLT CIRCLE) 11.5" (9") NOTES Non Lock Up High Stall	PILOT 1.375"	SPLINES 19	MOUNT 3 Pads APPLICATION CODES 1983-Up 190E, 190D 202-250-0002, 202-250-0102, 202-250-0402, 202-250-0502, 202-250-2002, 202-250-0002
	MB41 DIA. (BOLT CIRCLE) 11.5" (9") NOTES Non Lock Up	PILOT 1.375"	SPLINES 19	MOUNT 3 Pads APPLICATION CODES 1983-93 190 Series 201-250-0102







MERCEDES

722.6, 722.9

	MB18 DIA. (BOLT CIRCLE) 11.375" (9") NOTES Dual Clutch	PILOT 1.375"	SPLINES 22	MOUNT 3 Pads, 8mm x 1.25 APPLICATION CODES 1996-Up C230, E320, Sprinter 2.7L, 2.9L 210-250-0402, 210-250-0502, 210-250-0702, 210-250-0902, 903-250-0002 TSB: 7, 76, 102, 103
	MB18A DIA. (BOLT CIRCLE) 11.375" (9.4") NOTES Dual Clutch	PILOT 1.375"	SPLINES 22	MOUNT 3 Pads, 8mm x 1.25 APPLICATION CODES 1996-Up 320 Series 210-250-0602, 210-250-0702, 210-250-0902, 211-250-0002, 211-250-0302, 211-250-0702, 211-250-0802 TSB: 7, 76, 102, 103
	MB18A-3 DIA. (BOLT CIRCLE) 11.375" (9.4") NOTES Triple Clutch Replaces MB7801	PILOT 1.375"	SPLINES 22	MOUNT 3 Pads, 8mm x 1.25 APPLICATION CODES 240-250-0002 TSB: 7, 76, 102, 103
	MB18B DIA. (BOLT CIRCLE) 11.375" (10.2") NOTES Dual Clutch Low Stall	PILOT 1.335"	SPLINES 22	MOUNT 3 Pads, 8mm x 1.25 APPLICATION CODES 1996-Up Grand Cherokee, Liberty 3.7L, 300, 06-07 Charger, Grand Cherokee, Magnum 421AB, 478AA, 489AA, 500AA, 520AB, 580AA, 580AB TSB: 7, 76, 102, 103
	CR7801 DIA. (BOLT CIRCLE) 11.375" (10.2") NOTES Dual Clutch High Stall	PILOT 1.335"	SPLINES 22	MOUNT 3 Pads, 8mm x 1.25 APPLICATION CODES 2003-Up Commander, Grand Cherokee 3.5L, 3.7L 447AA, 448AA, 489AA, 603AA TSB: 7, 76, 102, 103
	MB23 DIA. (BOLT CIRCLE) 11.375" (10.25") NOTES Dual Clutch Med. Stall 45° Pads	PILOT 1.377"	SPLINES 22	MOUNT 3 Pads APPLICATION CODES 2005-12 Grand Cherokee 3.0L Diesel 209-250-0602, 209-250-0702, 209-250-0802 TSB: 7, 76, 102, 103

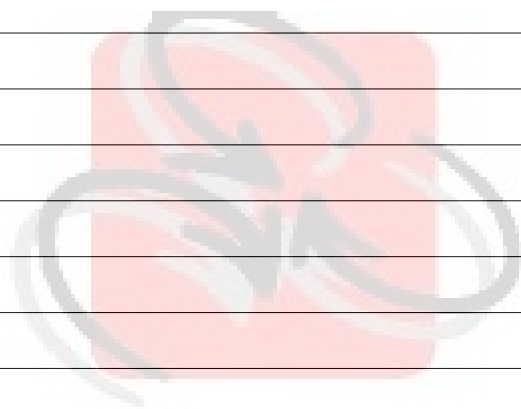
MERCEDES

722.6, 722.9

 <p>MB22</p>	<p>DIA. (BOLT CIRCLE) 11.4" (9.25")</p> <p>NOTES Lock Up High Stall 45° Pads</p>	<p>PILOT 1.375"</p>	<p>SPLINES 22</p>	<p>MOUNT 3 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 1996-Up Grand Cherokee, Sprinter, Dodge Sprinter 3.0L, Mercedes C230 1.8L 209-250-0802, 221-250-0102, 221-250-1202, 221-03-41C07</p> <p>TSB: 7, 76, 102, 103</p>
 <p>MB21</p>	<p>DIA. (BOLT CIRCLE) 11.75" (10.13")</p> <p>NOTES Lock Up Low Stall 45° Pads</p>	<p>PILOT 1.375"</p>	<p>SPLINES 22</p>	<p>MOUNT 3 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 1996-Up Chrysler, Dodge 221-250-0502, 221-04-41D</p> <p>TSB: 7, 76, 102, 103</p>
 <p>MB21-3</p>	<p>DIA. (BOLT CIRCLE) 11.75" (10.13")</p> <p>NOTES Lock Up Med. Stall 45° Pads Replaces MB8801</p>	<p>PILOT 1.375"</p>	<p>SPLINES 22</p>	<p>MOUNT 3 Pads</p> <p>APPLICATION CODES 221-250-1702</p> <p>TSB: 7, 76, 102, 103</p>
 <p>MB19B</p>	<p>DIA. (BOLT CIRCLE) 12.25" (11.5")</p> <p>NOTES Dual Clutch</p>	<p>PILOT 1.375"</p>	<p>SPLINES 22</p>	<p>MOUNT 3 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 1996-Up Jaguar XJR XK8 4.0L 722-250-1102, JB, O29</p> <p>TSB: 7, 76, 102, 103</p>
 <p>MB19</p>	<p>DIA. (BOLT CIRCLE) 12.25" (10.7")</p> <p>NOTES Dual Clutch Med. Stall</p>	<p>PILOT 1.375"</p>	<p>SPLINES 22</p>	<p>MOUNT 3 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 1996-Up 420, 500 Series 140-250-0402, 140-250-0502</p> <p>TSB: 7, 76, 102, 103</p>
 <p>MB19A</p>	<p>DIA. (BOLT CIRCLE) 12.25" (9.4")</p> <p>NOTES Dual Clutch Med. Stall</p>	<p>PILOT 1.375"</p>	<p>SPLINES 22</p>	<p>MOUNT 3 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 1996-Up 430, 600 Series 140-250-0602, 140-250-0802, 140-250-0902, AW, MV</p> <p>TSB: 7, 76, 102, 103</p>

MERCEDES

NOTES



Autrans

Transmissions – Parts & Service

Mercedes



Mercedes Benz Converter Codes: The stamped codes on these converters are on the front cover near the weld. The code on this converter is 126 250 09 02 0787. All of these converters have 250 as the 3rd, 4th & 5th digits. The numbers that ID the converter are the first three digits and the 7th & 8th digits. Thus the code for this converter is 126 09. (aka 126 250 0902)

126 250 0902 0787







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KM GUIDE

Mitsubishi KM Series Quick Reference Guide

Codes	Transmission	Part #	Codes	Transmission	Part #
KM170			KM175-5 (Cont.)		
78	KM 170	KM13	V6	KM175-5 (10mm x 1.25)	KM12BHD
170	KM 170	KM5HD	V6	KM175-5 (10mm x 1.5)	KM12HD
A1, V7	KM 170	KM13	V7	KM175-5	KM9
KM170-1, KM170-2, KM170-3			W2	KM175-5	KM11HD
Green Paint	KM170-1	KM6	X4	KM175-5	KM11HD
Green Paint	KM170-2	KM6	KM176		
A1	KM170-3	KM18	3b	KM176	KM23
A2	KM170-3	KM8HD	3M, 3T	KM176	KM16BHD
G7, V7	KM170-3	KM18	3X	KM176	KM16CHD
KM171			22	KM176	KM19
41	KM171 (10mm x 1.25)	KM15B	41	KM176 (10mm x 1.25)	KM15B
41	KM171 (10mm x 1.5)	KM15	41	KM176 (10mm x 1.5)	KM15
71	KM171	KM11HD	51, 56	KM176	KM10HD
P1	KM171 (10mm x 1.25)	KM15B	71	KM176	KM11HD
P1	KM171 (10mm x 1.5)	KM15	JB	KM176	KM23
P2, W2	KM171	KM11HD	MM, MT	KM176	KM16HD
KM171-1, KM171-2, KM171-5			P1	KM176 (10mm x 1.25)	KM15B
3b	KM171-1, KM171-2, KM171-5	KM23	P1	KM176 (10mm x 1.5)	KM15
C2, C4, D2	KM171-1, KM171-2, KM171-5	KM7HD	P2	KM176	KM11HD
E4, E6, H4	KM171-1, KM171-2, KM171-5	KM7HD	S2, S4	KM176	KM10HD
JB	KM171-1, KM171-2, KM171-5	KM23	W2	KM176	KM11HD
KM172			X4	KM176	KM11HD
A2	KM172	KM8HD	KM177-5, KM177-8		
C2, C4, D2	KM172	KM7HD	4b	KM177 (10mm x 1.25)	KM12BHD
E4, E6, H4	KM172	KM7HD	4b	KM177 (10mm x 1.5)	KM12HD
KM175			52	KM177 (10mm x 1.25)	KM12BHD
3b	KM175	KM23	52	KM177 (10mm x 1.5)	KM12HD
3M, 3T	KM175	KM16BHD	71	KM177	KM11HD
3X	KM175	KM16CHD	76	KM177 (10mm x 1.25)	KM12BHD
A2	KM175	KM8HD	76	KM177 (10mm x 1.5)	KM12HD
C2, C4, D2	KM175	KM7HD	A1	KM177	KM9
E4, E6, H4	KM175	KM7HD	G7	KM177	KM9
G7	KM175	KM9	IF, IQ	KM177 (10mm x 1.25)	KM12BHD
JB	KM175	KM23	IF, IQ	KM177 (10mm x 1.5)	KM12HD
MM, MT	KM175	KM16HD	KF, KH, KJ, KV	KM177 (10mm x 1.25)	KM12BHD
KM175-5			KF, KH, KJ, KV	KM177 (10mm x 1.5)	KM12HD
4b	KM175-5 (10mm x 1.25)	KM12BHD	P2	KM177	KM11HD
4b	KM175-5 (10mm x 1.5)	KM12HD	V6	KM177 (10mm x 1.25)	KM12BHD
52	KM175-5 (10mm x 1.25)	KM12BHD	V6	KM177 (10mm x 1.5)	KM12HD
52	KM175-5 (10mm x 1.5)	KM12HD	V7	KM177	KM9
71	KM175-5	KM11HD	W2	KM177	KM11HD
76	KM175-5 (10mm x 1.25)	KM12BHD	X4	KM177	KM11HD
76	KM175-5 (10mm x 1.5)	KM12HD	F4A33		
A1	KM175-5	KM9	41	F4A33 (10mm x 1.25)	KM15B
G7	KM175-5	KM9	41	F4A33 (10mm x 1.5)	KM15
IF, IQ	KM175-5 (10mm x 1.25)	KM12BHD	LK	F4A33 (10mm x 1.25)	KM14B
IF, IQ	KM175-5 (10mm x 1.5)	KM12HD	LK	F4A33 (10mm x 1.5)	KM14
KF, KH, KJ, KV	KM175-5 (10mm x 1.25)	KM12BHD	MM, MT	F4A33	KM16HD
KF, KH, KJ, KV	KM175-5 (10mm x 1.5)	KM12HD	NR	F4A33	KM21
P2	KM175-5	KM11HD	P1	F4A33 (10mm x 1.25)	KM15B
KM175-5 (Cont Next Column)			P1	F4A33 (10mm x 1.5)	KM15

KM170-177, F3A/F4A21-33, A4AF1, A4BF1, A4BF-3

	KM5HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Non Lock Up 106T Ring Gear	PILOT .863"	SPLINES 22	MOUNT 3 Holes APPLICATION CODES 1979-81 Colt, Champ 170
	KM6 DIA. (BOLT CIRCLE) 10" (9.25") NOTES Non Lock Up 106T Ring Gear	PILOT 1.060"	SPLINES 24	MOUNT 3 Holes APPLICATION CODES 1982-88 Colt, Corolla, Tredia Green Paint
	KM13 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Non Lock Up 106T Ring Gear, 1.562" Tall Hub	PILOT 1.335"	SPLINES 20	MOUNT 3 Pads APPLICATION CODES 1988-92 Galant, Sonata, Sigma 3.0L (KM175-177) A1, G7, Some V7
	KM9 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Non Lock Up High Stall 106T Ring Gear, 1.687" Tall Hub	PILOT 1.335"	SPLINES 20	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 1988-92 Galant, Sonata, Sigma 3.0L (KM175-177) A1, G7, Some V7
	KM15 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Non Lock Up 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 1992-94 Colt 1.5L, Mirage 1.5L 41, P1
	KM15B DIA. (BOLT CIRCLE) 10" (8.75") NOTES Non Lock Up 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Pads, 10mm x 1.25 APPLICATION CODES 1992-94 Colt 1.5L, Mirage 1.5L 41, P1

mitsubishi

KM170-177, F3A/F4A21-33, A4AF1, A4BF1, A4BF-3




	KM11HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up 4.220" OAH 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Pads APPLICATION CODES KM Series, 1991-92 Scoop, 1989-94 Colt, Vista Wagon, Eclipse, Excel, 1989-92 Mirage, Prism, Summit 71, P2, W2, H2, Some X4
	KM8HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up 4.330" OAH 106T Ring Gear	PILOT 1.060"	SPLINES 24	MOUNT 3 Pads APPLICATION CODES 1985-91 Hyundai & Colt DL w/ 1.5L, 1989-90 Excel, 1985-91 Summit A2
	KM7HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up 4.435" OAH 106T Ring Gear	PILOT 1.060"	SPLINES 24	MOUNT 3 Holes APPLICATION CODES 1983-88 Cordia, Galant, Mirage, Tredia, Vista, 1988-89 Excel, 1989-91 Sonata C2, C4, D2, E4, E6, H4
	KM10HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Holes APPLICATION CODES 1991-95 Elantra, 1990-91 Excel, 1989-90 Laser, 1990-98 Sonata, 1990-94 Talon 51, 56, S2, S4, Some X4
	KM12HD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up M464MA Bolts 2200-2800 Stall 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Holes, 10mm x 1.5 APPLICATION CODES 1986-01 Accent, Eclipse, Elantra, Galant, Precis, Sonata, Summit, Talon, Tiburon, Vista 4b, 52, 76, IF, IQ, KF, KH, KJ, KV, V6
	KM12BHD DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up M464MB Bolts 2200-2800 Stall 106T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 3 Holes, 10mm x 1.25 APPLICATION CODES 1986-01 Accent, Eclipse, Elantra, Galant, Precis, Sonata, Summit, Talon, Tiburon, Vista 33, 54, 56, 68, b3, b4, b5, F2, 1F, 1Q, HQ, RM

KM170-177, F3A/F4A21-33, A4AF1, A4BF1, A4BF-3

	KM14 DIA. (BOLT CIRCLE) 11" (8.5") NOTES Non Lock Up 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.50 APPLICATION CODES 1991-98 2.0L Laser & Talon w/ Turbo LK
	KM14B DIA. (BOLT CIRCLE) 11" (8.5") NOTES Non Lock Up 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1991-98 2.0L Laser & Talon w/ Turbo 6K
	KM23 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1993-Up Mirage 1.5L, 1.8L, Elantra 2.0L JB, 3b
	KM16CHD DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES KM Series, 1992-98 Eclipse 2.0L Turbo, Sonata 3.0L, 1992-98 Talon 2.0L 3X
	KM16HD DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.50 APPLICATION CODES 1991-99 Stealth, 3000 GT, Diamante, Stratus MM, MT
	KM16BHD DIA. (BOLT CIRCLE) 10.9" (8.42") NOTES Lock Up 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1991-99 Stealth, 3000 GT, Diamante, Stratus 3M, 3T

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KM170-177, F3A/F4A21-33, A4AF1, A4BF1, A4BF-3



	KM19 DIA. (BOLT CIRCLE) 10.125" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 6 Holes, 8mm x 1.25 APPLICATION CODES 1990-95 Excel Scoop 1.5L 22
	KM21 DIA. (BOLT CIRCLE) 10.875" (8.75") NOTES Lock Up High Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads APPLICATION CODES 1994-98 Galant 2.4L NR
	KM17 DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1997-04 Diamante 3.0L, 3.5L 6X, FE, LB, LE, P9

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Transmissions – Parts & Service

3 Speed KM's w/ 1 Solenoid are Lock-Up, No Solenoids are Non Lock-Up
4 Speed KM's w/ 4 Solenoids are Lock-Up, w/ 3 Solenoids are Non Lock-Up

KM Converter Bolts

TO ID KM BOLTS	Many KM converters can be interchanged if the correct bolts are used. For example, the KM14 uses 10mm x 1.5 bolts. You can replace the KM14 with the KM14B if used with 10mm x 1.25 bolts.	 M464MA (10mm x 1.5)	 M464MB (10mm x 1.25)
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F4A41/51, F5A51, F4A4B, F4A5A, A5GF1, A5HF1

	KM22 DIA. (BOLT CIRCLE) 10.188" (8.75") NOTES Lock Up Med. to High Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1998-02 Mirage 1.8L 3g, 3G, 38 TSB: 104
	KM30 DIA. (BOLT CIRCLE) 10.2" (8.75") NOTES Lock Up Slightly High Stall	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 2002-03 Lancer 2.0L 2g TSB: 104
	KM27 DIA. (BOLT CIRCLE) 10.2" (8.7") NOTES Lock Up Low Stall Short or Tall Fins	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1999-03 Galant 2.4L, 2000-05 Eclipse 2.4L 2c, 2C TSB: 104
	KM24 DIA. (BOLT CIRCLE) 10.375" (8.75") NOTES Lock Up High Stall Short or Tall Fins	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads APPLICATION CODES 1998-03 Galant 2.4L, Mirage 1.8L 2a, 2A, 2c, 2C TSB: 104
	KM25 DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Med. to High Stall 110T Ring Gear. May Have a Pilot Sleeve. Works Both Ways.	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1999-03 Sonata 2.4L, 2005 Tucson 2.7L 4C, YB, YB-K, YC TSB: 104
	KM17 DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear (Remove Pilot Adapter if Needed)	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1999-04 Montero Sport 3.0L, 3.5L, 1997-04 Diamante 3.0L, 3.5L 6X, FE, LB, LE, P9 TSB: 104







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F4A41/51, F5A51, F4A4B, F4A5A, A5GF1, A5HF1

		KM17-6 DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Low Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25
			APPLICATION CODES 1999-04 Montero Sport 3.0L, 3.5L, 2004-06 Endeavor 3.8L 6g, 6G TSB: 104		
		KM23 DIA. (BOLT CIRCLE) 10" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25
			APPLICATION CODES 1993-Up Mirage, Elantra 1.5L, 1.8L, 2.0L JB, 3b TSB: 104		
		KM28 DIA. (BOLT CIRCLE) 10.875" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25
			APPLICATION CODES 1999-03 Galant, Eclipse, Stratus 3.0L, Sebring 6d, P9 TSB: 104		
		KM26 DIA. (BOLT CIRCLE) 10.875" (8.75") NOTES Lock Up Med. to High Stall	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25
			APPLICATION CODES 2003-06 Montero 3.8L, 1999-04 Montero Sport 3.0L, 3.5L, 2001-02 Montero XLS & Limited 3.5L RA, RG TSB: 104		
		KM29 DIA. (BOLT CIRCLE) 10.93" (8.75") NOTES Lock Up High Stall	PILOT 1.060"	SPLINES 20	MOUNT 4 Holes, 10mm x 1.25
			APPLICATION CODES 2001-06 Sante Fe 2.4L, 2.7L YE TSB: 104		
KM Converter Bolts					
TO ID KM BOLTS	Many KM converters can be interchanged if the correct bolts are used. For example, the KM14 uses 10mm x 1.5 bolts. You can replace the KM14 with the KM14B if used with 10mm x 1.25 bolts.				
		M464MA (10mm x 1.5)		M464MB (10mm x 1.25)	




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F4A41/51, F5A51, F4A4B, F4A5A, A5GF1, A5HF1

	KM31H DIA. (BOLT CIRCLE) 10.9" (8.76") NOTES Lock Up Flats on Hub High Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES 2006-Up Eclipse 3.0L (F5A51) 6M, W9 TSB: 104
	KM31M DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Flats on Hub Med. to High Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES 2000-06 Sante Fe 3.5L (F5A51), Galant 3.8L 6L TSB: 104
	KM39 DIA. (BOLT CIRCLE) 11" (8.688") NOTES Lock Up Flats on Hub Low Stall Hollow Pilot	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES 2006-11 Sedona 3.8L (A5HF1) TC TSB: 104
	KM39A DIA. (BOLT CIRCLE) 10.97" (8.75") NOTES Lock Up Flats on Hub Low Stall Hollow Pilot	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES 2006-10 Sonata, Azera 3.3L (A5HF1) TG, TH TSB: 104
	KM40 DIA. (BOLT CIRCLE) 11" (8.75") NOTES Lock Up Flats on Hub Low Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 6 Holes, 10mm x 1.25 APPLICATION CODES 2000-07 Sante Fe 2.2L Turbo Diesel, 3.3L, 3.5L (F5A51) TF TSB: 104
	KM41 DIA. (BOLT CIRCLE) 10.125" (8.75") NOTES Lock Up Slotted Hub Low Stall 110T Ring Gear	PILOT 1.060"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 2006-10 Kia Optima 2.4L (A5GF1) A5GF1, FB TSB: 104

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F4A41/51, F5A51, F4A4B, F4A5A, A5GF1, A5HF1



 <p>KM49</p>	<p>DIA. (BOLT CIRCLE) 10.975" (8.75")</p> <p>NOTES Lock Up Slotted Hub Low Stall</p>	<p>PILOT 1.335"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 2006-11 Kia Sedona 3.8L (A5HF1) TC</p> <p>TSB: 104</p>
 <p>KM8201</p>	<p>DIA. (BOLT CIRCLE) 10.18" (8.75")</p> <p>NOTES Lock Up Flats on Hub Slightly High Stall 110T Ring Gear</p>	<p>PILOT 1.060"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 2004-Up Galant 2.4L F4A4B 7C</p> <p>TSB: 104</p>
 <p>KM8202</p>	<p>DIA. (BOLT CIRCLE) 10.18" (8.75")</p> <p>NOTES Lock Up Flats on Hub Slightly High Stall 110T Ring Gear</p>	<p>PILOT 1.060"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 2004-Up Lancer, Mirage 1.5L F4A41 2d, 2D</p> <p>TSB: 104</p>

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Mitsubishi

KM Converter Bolts

<p>TO ID KM BOLTS</p>	<p>Many KM converters can be interchanged if the correct bolts are used. For example, the KM14 uses 10mm x 1.5 bolts. You can replace the KM14 with the KM14B if used with 10mm x 1.25 bolts.</p>	 <p>M464MA (10mm x 1.5)</p>	 <p>M464MB (10mm x 1.25)</p>
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The image shows a logo for 'Autrans' featuring a red square with a stylized grey arrow forming a circular motion. Below the logo, the word 'Autrans' is written in a large, bold, grey sans-serif font. Underneath 'Autrans', the words 'Transmissions - Parts & Service' are written in a smaller, white sans-serif font, centered within a solid red horizontal bar. The entire graphic is set against a background of horizontal grey lines, suggesting a notebook page.

MITSUBISHI **R4A51, R5A51, V4A51, V5A51**

	KM28 DIA. (BOLT CIRCLE) 10.875" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 6d, P9
	KM28M DIA. (BOLT CIRCLE) 10.875" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 2001-06 Sante Fe 2.4L, 2.7L, Sedona LB, LC, LE
	KM29 DIA. (BOLT CIRCLE) 10.93" (8.75") NOTES Lock Up High Stall	PILOT 1.060"	SPLINES 20	MOUNT 4 Holes, 10mm x 1.25 APPLICATION CODES 2001-06 Sante Fe 2.4L, 2.7L YE
	KM17 DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Slightly High Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1999-04 Montero Sport 3.0L, 3.5L, 1997-04 Diamante 3.0L, 3.5L 6X, FE, LB, LE, P9
	KM17-6 DIA. (BOLT CIRCLE) 10.9" (8.75") NOTES Lock Up Low Stall 110T Ring Gear	PILOT 1.335"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES 1999-04 Montero Sport 3.0L, 3.5L, 2004-06 Endeavor 3.8L 6g, 6G

MITSUBISHI



R4A51, R5A51, V4A51, V5A51

 <p>KM25</p>	<p>DIA. (BOLT CIRCLE) 10.9" (8.75")</p> <p>NOTES Lock Up Med. to High Stall 110T Ring Gear May Have a Pilot Sleeve. Works Both Ways.</p>	<p>PILOT 1.060"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 4C, YB, YB-K, YC</p>
 <p>KM26</p>	<p>DIA. (BOLT CIRCLE) 10.875" (8.75")</p> <p>NOTES Lock Up Med. to High Stall</p>	<p>PILOT 1.335"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 2003-06 Montero 3.8L, 1999-04 Montero Sport 3.0L, 3.5L, 2001-02 Montero XLS & Limited 3.5L RA, RG</p>
 <p>KM26L</p>	<p>DIA. (BOLT CIRCLE) 10.875" (8.75")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT 1.335"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 10mm x 1.25</p> <p>APPLICATION CODES Montero, Also 2003-06 3.8L, 1999-04 Sport 3.0L, 3.5L, 2001-02 XLS & Limited 3.5L RE, RF, RH</p>

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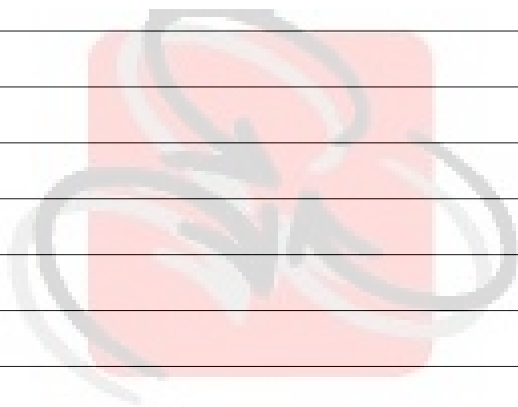
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Mitsubishi

KM Converter Bolts			
<p>TO ID KM BOLTS</p>	<p>Many KM converters can be interchanged if the correct bolts are used. For example, the KM14 uses 10mm x 1.5 bolts. You can replace the KM14 with the KM14B if used with 10mm x 1.25 bolts.</p>		
		<p>M464MA (10mm x 1.5)</p>	<p>M464MB (10mm x 1.25)</p>

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NOTES















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L4N71B, 4N71B, N4A-EL

 	DA8 DIA. (BOLT CIRCLE) 10" (9") NOTES Lock Up Low Stall .500" Tall Pads	PILOT .785"	SPLINES 18	MOUNT 4 Pads, .500" Tall APPLICATION CODES 1983-93 Nissan, Mazda, Starion, Conquest G (GB, GF, GH, GI, etc.)
 	DA8A DIA. (BOLT CIRCLE) 10" (9") NOTES Lock Up High Stall .625" Tall Pads	PILOT .785"	SPLINES 18	MOUNT 4 Pads, .625" Tall APPLICATION CODES 1983-93 Pickup, 200SX E (EL, EM, EO, etc.)
 	DA8B DIA. (BOLT CIRCLE) 10" (9") NOTES Lock Up High Stall	PILOT .785"	SPLINES 20	MOUNT 4 Pads APPLICATION CODES 1988-95 MPV, 929 6T, GT, OT, OU
 	DA34 DIA. (BOLT CIRCLE) 10" (9") NOTES Clutch Omitted High Stall	PILOT .785"	SPLINES 18	MOUNT 4 Pads, .650" Tall APPLICATION CODES 1984-89 300 ZX V6 Turbo N (NE, NG, NEO, etc.)
 	DA37 DIA. (BOLT CIRCLE) 10" (9.25") NOTES Lock Up High Stall	PILOT .825"	SPLINES 18	MOUNT 4 Studs APPLICATION CODES 1991-97 Miata S (S2, S3, etc.)
 	DA14 DIA. (BOLT CIRCLE) 11" (9") NOTES Lock Up Low Stall	PILOT .785"	SPLINES 20	MOUNT 4 Pads APPLICATION CODES 1984-91 200SX, 300ZX, 810, 929, Conquest G, L, ZB

NISSAN**RE0F09A, RE0F10A, JF010E, JF011E**

	N33G01 DIA. (BOLT CIRCLE) 10.44" (9") NOTES Lock Up Low Stall	PILOT .785"	SPLINES 20	MOUNT 4 Oval, 10mm x 1.25 APPLICATION CODES JF011E 21C TSB: 45, 46
	N33G02 DIA. (BOLT CIRCLE) 10.44" (9") NOTES Lock Up Low Stall Four 10mm x 1.25 Studs, Two 8mm x 1.25 Studs	PILOT .785"	SPLINES 20	MOUNT 6 Studs, 8/10 x 1.25 APPLICATION CODES JF011E 21F TSB: 45, 46
	N33G03 DIA. (BOLT CIRCLE) 10.44" (9") NOTES Lock Up Med. Stall Four 10mm x 1.25 Studs, Two 8mm x 1.25 Studs	PILOT .785"	SPLINES 20	MOUNT 6 Studs, 8/10 x 1.25 APPLICATION CODES 2007-12 Sentra 2.0L 21B TSB: 45, 46
	N33G04 DIA. (BOLT CIRCLE) 10.85" (9.085") NOTES Lock Up Low Stall Four 10mm x 1.25 Studs, Two 8mm x 1.25 Studs	PILOT .785"	SPLINES 20	MOUNT 6 Studs, 8/10 x 1.25 APPLICATION CODES 2003-12 Murano 3.5L NC TSB: 45, 46
	N33G05 DIA. (BOLT CIRCLE) 10.85" (9.085") NOTES Lock Up Low Stall Four 10mm x 1.25 Studs, Two 8mm x 1.25 Studs	PILOT .785"	SPLINES 20	MOUNT 6 Studs, 8/10 x 1.25 APPLICATION CODES 2003-12 Murano 3.5L ND TSB: 45, 46

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RE/RL4F02A, RE/RL4F03A

	DA13HD DIA. (BOLT CIRCLE) 10" (8.375") NOTES Lock Up	PILOT .785"	SPLINES 18	MOUNT 3 Pads APPLICATION CODES 1983-94 Axxess, Stanza, Pulsar (Some) RE/RL4F02A EB, EC, EF, FF, G, P, Q, T, U
	DA48A DIA. (BOLT CIRCLE) 10.1" (8.375") NOTES Lock Up High Stall	PILOT .785"	SPLINES 18	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 2001 Sentra, RE4F03B
	DA48B DIA. (BOLT CIRCLE) 10.1" (8.375") NOTES Lock Up Med. Stall	PILOT .785"	SPLINES 18	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1991-02 G20 2.0L, 1991-2005 Sentra 1.8L, 2.0L RE4F03A F, FK, K, KO, KF, OA
	DA28 DIA. (BOLT CIRCLE) 10.25" (8.375") NOTES Lock Up Low Stall	PILOT .785"	SPLINES 18	MOUNT 4 Pads APPLICATION CODES 1991-99 Sentra 1.6L, 91-E93 Infinity G20 RE/RL4F03A 65, A, AA, FA, FF, O, P
	DA48 DIA. (BOLT CIRCLE) 10.25" (8.375") NOTES Lock Up Med. Stall	PILOT .785"	SPLINES 18	MOUNT 4 Pads APPLICATION CODES 1991-06 Sentra 2.0L, L93-99 Infinity G20 (Some 1.8L) RE/RL4F03A 2, 01, 05, 06, 08, 018, A, B, G, H, KF, KJ, N, Green Paint w/ Purple Dot
	DA11HD DIA. (BOLT CIRCLE) 11" (9") NOTES Lock Up	PILOT .785"	SPLINES 20	MOUNT 4 Pads APPLICATION CODES 1984-94 Maxima 3.0L, Pulsar (Some) RE/RL4F02A D, DA, DB, DC, E-1

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RE4F04A, 4F20E, JF403E, LJ4A-EL

	DA20 DIA. (BOLT CIRCLE) 10.125" (8.5") NOTES Lock Up Flats on Hub High Stall	PILOT .785"	SPLINES 18	MOUNT 6 Pads APPLICATION CODES 1990-93 Impulse, Gemini, Storm, Prism 1.8L A1, A3, KF1
	DA46 DIA. (BOLT CIRCLE) 10.125" (8.375") NOTES Lock Up Slotted Hub Med. Stall	PILOT .785"	SPLINES 20	MOUNT 4 Pads APPLICATION CODES 1992-06 Infinity I30, Altima 2.4L HC, HE, HH, HI
	DA53 DIA. (BOLT CIRCLE) 10.8" (9.055") NOTES Lock Up Flats on Hub Med. to High Stall	PILOT .785"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1995-02 Mazda Millennia 2.3L Turbo LJ4A-EL K2

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Late Model JATCO converters have interchangeable 2 or 3 rows of Ribs, and either a Hollow or Solid style Pilot.

			
2 Rows	3 Rows	Hollow Pilot	Solid Pilot

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RE4F04A, 4F20E, JF403E, LJ4A-EL

 <p>DA42</p>	<p>DIA. (BOLT CIRCLE) 10.8" (9.08")</p> <p>NOTES Lock Up Slotted Hub Med. to High Stall 3 Dimple Rows (Two Pilots Shown for Comparison)</p>	<p>PILOT .785"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 2000-06 Altima 2.5L, 1995-01 I30, 1992-03 Maxima 3.0L, 1993-02 Quest 3.0L, 1993-02 Villager 3.0L GB, GD, GE, GF</p>
 <p>DA42</p>	<p>DIA. (BOLT CIRCLE) 10.8" (9.08")</p> <p>NOTES Lock Up Slotted Hub Med. to High Stall 2 Dimple Rows (Two Pilots Shown for Comparison)</p>	<p>PILOT .785"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 2000-06 Altima 2.5L, 1995-01 I30, 1992-03 Maxima 3.0L, 1993-02 Quest 3.0L, 1993-02 Villager 3.0L GB, GD, GE, GF</p>
 <p>DA42L</p>	<p>DIA. (BOLT CIRCLE) 10.8" (9.08")</p> <p>NOTES Lock Up Slotted Hub Low Stall 2 or 3 Dimple Rows</p>	<p>PILOT .785"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 2002-05 Altima 3.5L, 2002-05 Maxima 3.5L, 2004-06 Quest 3.5L LF, LF229</p>

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RE4R01A





 <p>DA40</p>	<p>DIA. (BOLT CIRCLE) 10.125" (8.875")</p> <p>NOTES Lock Up Slotted Hub .725" Tall Pilot Smooth or Dimpled</p>	<p>PILOT .785"</p>	<p>SPLINES 18</p>	<p>MOUNT 3 Pads</p> <p>APPLICATION CODES 1987-Up Mazda Patrol, 300 ZX Turbo B, B1, B4, B7, B9, B15, B17</p>
 <p>DA36</p>	<p>DIA. (BOLT CIRCLE) 11" (10.125")</p> <p>NOTES Lock Up Slotted Hub .625" Tall Pilot 11" Mounting Ring</p>	<p>PILOT .785"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Holes</p> <p>APPLICATION CODES 1992-96 Mazda 929, RX7 3.0L A12, A13, Some A20, A33, A47</p>
 <p>DA36A</p>	<p>DIA. (BOLT CIRCLE) 11" (10.125")</p> <p>NOTES Lock Up Slotted Hub .930" Tall Pilot 11" Mounting Ring</p>	<p>PILOT .785"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Holes</p> <p>APPLICATION CODES 1992-96 Mazda 929, RX7 3.0L Some A20</p>
 <p>DA16A</p>	<p>DIA. (BOLT CIRCLE) 10.75" (9")</p> <p>NOTES Lock Up Slotted Hub Med. to High Stall 1.05" Tall Pilot</p>	<p>PILOT .785"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 1990-93 Mazda 4wd Pickup 2.6L L1</p>
 <p>DA16HD</p>	<p>DIA. (BOLT CIRCLE) 10.75" (9")</p> <p>NOTES Lock Up Slotted Hub Med. to High Stall .730" Tall Pilot</p>	<p>PILOT .785"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 1987-Up Pickup, Pathfinder 4wd, MPV, 240SX, 300ZX, J30, M30 A1, 2, A3, A4, A5, A7, A8, A40, A43, A48</p>

 <p>DA31</p>	<p>DIA. (BOLT CIRCLE) 10.8" (9.18")</p> <p>NOTES Lock Up Flats on Hub Med. Stall .730" Tall Pilot</p>	<p>PILOT .785"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 1996-03 MPV 3.0L, J30, QX4 3.5L, Pathfinder 3.3L 49, A, A49, A52, A53, A59</p>
 <p>DA31L</p>	<p>DIA. (BOLT CIRCLE) 10.8" (9.18")</p> <p>NOTES Lock Up Flats on Hub Low Stall .420" Tall Pilot</p>	<p>PILOT .785"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 1999-04 Xterra 3.3L, Frontier 3.3L Some 13, Y, Y13</p>
 <p>DA56</p>	<p>DIA. (BOLT CIRCLE) 11.6" (9.75")</p> <p>NOTES Lock Up Flats on Hub Low Stall .700" Tall Pilot</p>	<p>PILOT .785"</p>	<p>SPLINES 21</p>	<p>MOUNT 5 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 1999-Up Pathfinder 3.3L, 3.5L, Frontier 3.3L Some J1, J2, T1, T2</p>

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Late Model JATCO converters have interchangeable 2 or 3 rows of Ribs,
and either a Hollow or Solid style Pilot.

			
2 Rows	3 Rows	Hollow Pilot	Solid Pilot

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RE4R03A, RG4R01A, JR403E

	DA41 DIA. (BOLT CIRCLE) 11.6" (9.75") NOTES Lock Up Med. Stall	PILOT .785"	SPLINES 24	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1990-Up J30, 300 ZX w/ Twin Turbo E1, E3
	DA39 DIA. (BOLT CIRCLE) 11.75" (9.75") NOTES Lock Up Med. Stall	PILOT .785"	SPLINES 24	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1988-Up Iveco, Pathfinder 3.5L, Q45 4.5L H1, H2, H5, H6
	DA62 DIA. (BOLT CIRCLE) 11.94" (9.75") NOTES Lock Up Med. Stall	PILOT .785"	SPLINES 24	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 1990-01 Q45 4.1L, 4.5L J11, J14, J17

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Late Model JATCO converters have interchangeable 2 or 3 rows of Ribs,
and either a Hollow or Solid style Pilot.

			
2 Rows	3 Rows	Hollow Pilot	Solid Pilot

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RE4R03A, RG4R01A, JR403E

 <p>DA24</p>	<p>DIA. (BOLT CIRCLE) 12.25" (9.625")</p> <p>NOTES Lock Up No Inertia Ring</p>	<p>PILOT .785"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 1993-Up Fuso Turbo Diesel 2.4L JR403E 4 Black Dots, 925, 737, B623</p>
 <p>DA21</p>	<p>DIA. (BOLT CIRCLE) 12.25" (9.625")</p> <p>NOTES Lock Up 13" Inertia Ring</p>	<p>PILOT .785"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 1988-Up Isuzu Truck, Nissan UD 3.9L, 1994 Mitsubishi Fusio JR403E</p>
 <p>DA27</p>	<p>DIA. (BOLT CIRCLE) 12.25" (9.75")</p> <p>NOTES Lock Up No Inertia Ring</p>	<p>PILOT .785"</p>	<p>SPLINES 24</p>	<p>MOUNT 4 Pads</p> <p>APPLICATION CODES 1988-Up Iveco 3.9L, UD 1300</p>
 <p>DA25</p>	<p>DIA. (BOLT CIRCLE) 12.25" (13.3")</p> <p>NOTES Lock Up 14.5" Mounting Ring</p>	<p>PILOT .785"</p>	<p>SPLINES 24</p>	<p>MOUNT 6 Holes</p> <p>APPLICATION CODES 1988-Up Diesel Truck 4 Cyl, 3.9L A20 (Some)</p>

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RE5R05A, A5SR1

 DA59	DIA. (BOLT CIRCLE) 10.9" (9.75") NOTES Triple Clutch Low Stall .825" Tall Pilot, 5.75" OAH	PILOT .785"	SPLINES 24	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 2002-07 Q45, 2005-07 Frontier 4.0L A2, A3, AZ, 9.2 TSB: 74, 75, 158
 DA61	DIA. (BOLT CIRCLE) 10.9" (9.75") NOTES Dual Clutch Low Stall .675" Tall Pilot, 5.25" OAH	PILOT .785"	SPLINES 24	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 2002-07 Q45, 2005-07 Frontier 4.0L, Pathfinder, G35, 350Z, Xterra F6, F10, F11, P2, P6, 7.6, 7.10, 7.11 TSB: 74, 75, 158
 DA60	DIA. (BOLT CIRCLE) 11.125" (9.75") NOTES Triple Clutch Low Stall 1" Tall Pilot	PILOT .785"	SPLINES 24	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES 2004-12 Armada, Pathfinder, Titan 5.6L 40B, B40, FNJ4, J4 TSB: 74, 75, 158
 DA63	DIA. (BOLT CIRCLE) 11.2" (9.75") NOTES Lock Up Low Stall 1" Tall Pilot	PILOT .785"	SPLINES 24	MOUNT 4 Pads, 10mm x 1.25 APPLICATION CODES TSB: 74, 75, 158
 DA67	DIA. (BOLT CIRCLE) 10.875" (9.1") NOTES Lock Up Low Stall	PILOT .748"	SPLINES 24	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES 2005-06 Kia Sorento 3.5L RA, KAP, ECRA TSB: 74, 75, 158

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3 SPEED

	SU1 DIA. (BOLT CIRCLE) 10" (9.55") NOTES Non Lock Up 105 T Ring Gear	PILOT .630"	SPLINES 18	MOUNT 4 Round Pads APPLICATION CODES 1975-79 Smooth or Dimpled
	SU2 DIA. (BOLT CIRCLE) 10.4" (10.12") NOTES Non Lock Up 115T Ring Gear	PILOT .630"	SPLINES 18	MOUNT 4 Holes APPLICATION CODES 1980-82 Smooth or Dimpled, 8 Short Bosses w/ .650" Wide Ring
	SU10 DIA. (BOLT CIRCLE) 11.5" (10.75") NOTES Lock Up 115T Ring Gear	PILOT .630"	SPLINES 18	MOUNT 4 Holes APPLICATION CODES 1983-Up Smooth or Dimpled, 8 Short Bosses w/ .950" Wide Ring Yellow Dot
	SU8 DIA. (BOLT CIRCLE) 11.5" (10.75") NOTES Clutch Omitted 115T Ring Gear	PILOT .630"	SPLINES 18	MOUNT 4 Holes APPLICATION CODES 1983-Up w/ Raised Outside Boss, w/ Extra Ring Pink or Orange Dot
	SU7 DIA. (BOLT CIRCLE) 11.5" (10.75") NOTES Clutch Omitted Can Use SU9 115T Ring Gear	PILOT .630"	SPLINES 18	MOUNT 4 Holes APPLICATION CODES 1983-Up w/ Raised Outside Boss, No Extra Ring Light Blue Dot or Green Dot
	SU9 DIA. (BOLT CIRCLE) 11.5" (10.75") NOTES Clutch Omitted Can Use SU7 115T Ring Gear	PILOT .630"	SPLINES 18	MOUNT 4 Holes APPLICATION CODES 1983-Up w/ Raised Outside Boss, No Extra Ring Yellow Dot











SUBARU

3 SPEED

	SU4 DIA. (BOLT CIRCLE) 11.5" (10.75") NOTES Clutch Omitted 115T Ring Gear	PILOT .630"	SPLINES 18	MOUNT 4 Holes APPLICATION CODES 1983-Up No Raised Outside Boss, No Extra Ring Pink Dot
	SU5 DIA. (BOLT CIRCLE) 11.5" (10.75") NOTES Clutch Omitted Can use SU6 115T Ring Gear	PILOT .630"	SPLINES 18	MOUNT 4 Holes APPLICATION CODES 1983-Up No Raised Outside Boss, w/ Extra Ring Green or White Paint
	SU6 DIA. (BOLT CIRCLE) 11.5" (10.75") NOTES Clutch Omitted Can use SU5 115T Ring Gear	PILOT .630"	SPLINES 18	MOUNT 4 Holes APPLICATION CODES 1983-Up No Raised Outside Boss, w/ Extra Ring Yellow Dot

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Transmissions – Parts & Service







SUBARU

4 SPEED, R4AX-EL, 4EAT (22 SPLINES)

	SU11 DIA. (BOLT CIRCLE) 10.5" (11") NOTES Lock Up High Stall 115T Ring Gear	PILOT .630"	SPLINES 22	MOUNT 1" Narrow Pads APPLICATION CODES 1987-Up GLXT, 90-93 Legacy 2.2L Non Turbo 001-S, White Dot
	SU11M DIA. (BOLT CIRCLE) 10.5" (11") NOTES Lock Up Med. Stall 115T Ring Gear	PILOT .630"	SPLINES 22	MOUNT 1" Narrow Pads APPLICATION CODES 1987-Up GLXT, 90-93 Legacy 2.2L Non Turbo
	SU13 DIA. (BOLT CIRCLE) 10.5" (11.3") NOTES Lock Up High Stall 115T Ring Gear	PILOT .630"	SPLINES 22	MOUNT 1" Narrow Pads APPLICATION CODES 1991-06 Legacy 2.2L Turbo
	SU14 DIA. (BOLT CIRCLE) 11.25" (11.75") NOTES Lock Up Low Stall 115T Ring Gear 1" Tall Pilot	PILOT .630"	SPLINES 22	MOUNT 2" Wide Pads APPLICATION CODES 1992-97 SVX 3.0L, 3.3L Orange Paint
	SU14HS DIA. (BOLT CIRCLE) 11.25" (11.75") NOTES Lock Up High Stall 115T Ring Gear Replaces SU2301	PILOT .630"	SPLINES 22	MOUNT 2" Wide Pads APPLICATION CODES 1997-Up Outback Wagon 2.5L R4AX-EL, Blue Paint



SUBARU

4 SPEED, R4AX-EL, 4EAT (23 SPLINES)

 <p>SU15</p>	<p>DIA. (BOLT CIRCLE) 10.2" (10.9")</p> <p>NOTES Lock Up Med. Stall 115T Ring Gear</p>	<p>PILOT .630"</p>	<p>SPLINES 23</p>	<p>MOUNT 1" Narrow Pads</p> <p>APPLICATION CODES 2000-04 Outback 2.5L 74</p>
 <p>SU17</p>	<p>DIA. (BOLT CIRCLE) 11.25" (11.75")</p> <p>NOTES Lock Up High Stall 115T Ring Gear 1.25" Pilot</p>	<p>PILOT .630"</p>	<p>SPLINES 23</p>	<p>MOUNT 2" Wide Pads</p> <p>APPLICATION CODES 1998 Subaru Legacy 2.5L, 1998-07 Forester 2.5L 77, 79</p>
 <p>SU18</p>	<p>DIA. (BOLT CIRCLE) 10.2" (10.9")</p> <p>NOTES Lock Up Med. Stall 115T Ring Gear</p>	<p>PILOT .630"</p>	<p>SPLINES 23</p>	<p>MOUNT Mounting Ring</p> <p>APPLICATION CODES 1999 Impreza 95, 970</p>
 <p>SU16</p>	<p>DIA. (BOLT CIRCLE) 11.125" (11.75")</p> <p>NOTES Lock Up High Stall 115T Ring Gear</p>	<p>PILOT .630"</p>	<p>SPLINES 23</p>	<p>MOUNT Mounting Ring</p> <p>APPLICATION CODES 1998-07 Forester 2.5L, Outback 2.5L 06, 56, 58, 90, 91, 150, 850, 901</p>
 <p>SU16A</p>	<p>DIA. (BOLT CIRCLE) 11.25" (11.75")</p> <p>NOTES Lock Up Slightly Low Stall 115T Ring Gear Replaces SU2304</p>	<p>PILOT .630"</p>	<p>SPLINES 23</p>	<p>MOUNT Mounting Ring</p> <p>APPLICATION CODES 970, 6B46</p>
 <p>SU16B</p>	<p>DIA. (BOLT CIRCLE) 11.25" (11.75")</p> <p>NOTES Lock Up Slightly Low Stall 115T Ring Gear</p>	<p>PILOT .630"</p>	<p>SPLINES 23</p>	<p>MOUNT Mounting Ring</p> <p>APPLICATION CODES 2002-10 Legacy, Outback 3.0L Non Turbo 850, 910, TZ10</p>

SUBARU

5 SPEED, 5EAT

	SU6301 DIA. (BOLT CIRCLE) 10.88" (11.75") NOTES Multi Disc Lock Up Slightly High Stall 115T Ring Gear	PILOT .629"	SPLINES 24	MOUNT 4 Pads, 8mm x 1.25 APPLICATION CODES 2006-11 Legacy GT 2.5L Turbo A, 70, ^0
	SU6302 DIA. (BOLT CIRCLE) 11" (11.75") NOTES Lock Up Low Stall 115T Ring Gear	PILOT .629"	SPLINES 24	MOUNT 4 Holes, 8mm x 1.25 APPLICATION CODES 2006-11 Tribeca 3.6L 140

NOTES






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The image shows a logo for 'Autrans' featuring a stylized red square with a grey circular arrow design. Below the logo, the word 'Autrans' is written in a large, bold, grey sans-serif font. Underneath 'Autrans', the text 'Transmissions – Parts & Service' is displayed in a smaller, white sans-serif font, set against a solid red rectangular background. The entire graphic is centered on a white background.








TOYOTA

A40 SERIES (NON LOCK UP)

	T020 DIA. (BOLT CIRCLE) 9.5" (7.875") NOTES Non Lock Up	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES 1980-84 Corolla, Isuzu
	T013 DIA. (BOLT CIRCLE) 10.5" (8.875") NOTES Non Lock Up	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES 1978-84 Pickup, Celica, Corona
	T09 DIA. (BOLT CIRCLE) 10.5" (9") NOTES Non Lock Up	PILOT 1.100"	SPLINES 26	MOUNT 6 Holes APPLICATION CODES 1973-80 Celica, Corolla, Corona
	T010 DIA. (BOLT CIRCLE) 10.5" (9") NOTES Non Lock Up High Stall	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 1978-84 Isuzu Pickup, 1976 Celica, Corolla
	T08 DIA. (BOLT CIRCLE) 10.5" (9") NOTES Non Lock Up Slightly Low Stall	PILOT 1.257"	SPLINES 26	MOUNT 6 Holes, 8mm x 1.25 APPLICATION CODES 1973-80 Celica, Corolla, Corona
PILOTS MAY VARY Many Toyota converters are identical except the pilot design. If the converter matches the application, dimension and codes but the pilot is slightly different, it may interchange. (Refer to these photos for examples of Pilots that interchange)				
				

TOYOTA

A40D SERIES (NON LOCK UP)

	TO25 DIA. (BOLT CIRCLE) 10.5" (8.5") NOTES Non Lock Up Slightly High Stall	PILOT .750"	SPLINES 26	MOUNT 6 Holes, 3/8 x 24 APPLICATION CODES 1986-90 Dakota, Ram, Raider 2.0L, 2.6L, 3.0L A44D
	TO15 DIA. (BOLT CIRCLE) 10.5" (9") NOTES Non Lock Up High Stall	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES 1980-93 Pickup 2.2L, Corolla A40D
	TO12 DIA. (BOLT CIRCLE) 10.5" (9") NOTES Non Lock Up Low Stall	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES 1978-98 2.4L Celica, Cressida, Supra, Pickup 2.4L A43D
	TO16 DIA. (BOLT CIRCLE) 11.375" (9") NOTES Non Lock Up Med. Stall	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES 1981-87 Isuzu Pickup, Impulse
	TO60 DIA. (BOLT CIRCLE) 11.375" (9.125") NOTES Non Lock Up Low Stall .420" Tall Pads	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 1995-04 Tacoma 2.4 7P, 5F, 6F, A43D
THESE TWO PILOTS INTERCHANGE				
				Toyota

TOYOTA

A40D SERIES (LOCK UP)

 <p>TO24</p>	DIA. (BOLT CIRCLE) 9.5" (7.875")	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads, 8mm x 1.25
NOTES Lock Up Med. Stall	APPLICATION CODES 1984-87 Corolla A42DL			
 <p>TO81</p>	DIA. (BOLT CIRCLE) 9.875" (9")	PILOT .825"	SPLINES 26	MOUNT 6 Pads, 10mm x 1.25
NOTES Lock Up Slightly High Stall	APPLICATION CODES 1998-05 Mazda Miata 1.8L 30A160, 305, A44DE			
 <p>TO39</p>	DIA. (BOLT CIRCLE) 10.3" (9")	PILOT .825"	SPLINES 20	MOUNT 4 Pads, 10mm x 1.25
NOTES Lock Up .510" Tall Pads	APPLICATION CODES 1998-04 Tracker, Vitara 2.5L, XL-7 40A100, 40A610, A43DE, A44DE			
 <p>TO65</p>	DIA. (BOLT CIRCLE) 10.3" (9")	PILOT 1.257"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25
NOTES Lock Up .500" Tall Pads Pilot Stepped .825" to 1.257"	APPLICATION CODES 1995-02 Kia Sportage 2.0L 04, 09, A44DE			
 <p>TO37</p>	DIA. (BOLT CIRCLE) 10.375" (8.375")	PILOT .825"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25
NOTES Lock Up .520" Tall Pads	APPLICATION CODES 1998-04 Tracker, Vitara 2.0L (A44DE) 6C, 40A570, 40A571, A44DE			
 <p>TO45</p>	DIA. (BOLT CIRCLE) 10.375" (9.125")	PILOT 1.257"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.25
NOTES Lock Up .390" Tall Pads Pilot Stepped .825" to 1.257"	APPLICATION CODES 1991-97 Previa 2.4L 019N, 023K, A46DE			

TOYOTA

A40D SERIES (LOCK UP)

 <p>T023</p>	<p>DIA. (BOLT CIRCLE) 11" (8.5")</p> <p>NOTES Lock Up High Stall Pilot Stepped .650" to .825"</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 3 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 1996-97 Tracker 1.6L, 1995-98 X-90, 1992-98 Sidekick 1.6L, 1.8L Some Geo Prizm 10A610, Red Circle w/ Blue Dot</p>
 <p>T018A</p>	<p>DIA. (BOLT CIRCLE) 11.18" (8.975")</p> <p>NOTES Lock Up Med. Stall</p>	<p>PILOT 1.257"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads</p> <p>APPLICATION CODES 1982-Up Cressida, Supra, Vans, 1991 2wd Tacoma Black, Blue, Green or White Dots, A43DL, A43DE, A44DL</p>
 <p>T017</p>	<p>DIA. (BOLT CIRCLE) 11.34" (9")</p> <p>NOTES Lock Up Med. to High Stall .375" Tall Pads</p>	<p>PILOT 1.100"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 1986-Up Isuzu Pickup, Impulse Pink Paint</p>
 <p>T047</p>	<p>DIA. (BOLT CIRCLE) 11.375" (8.5")</p> <p>NOTES Lock Up High Stall Replaces T032B</p>	<p>PILOT .750"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 3/8 x 24</p> <p>APPLICATION CODES 1987-Up Amigo, Montero, Vans 8B, 8U, 9B, KC18D, TGO3D, Blue Circle w/ Blue Dot</p>
 <p>T026</p>	<p>DIA. (BOLT CIRCLE) 11.4" (8.5")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT .750"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 1986-Up 3.0L Dakota, Ram, Raider, Montero Blue Circle w/ Green Dot</p>
<p>THESE TWO PILOTS INTERCHANGE</p>				
				

TOYOTA

A40 VOLVO AW70, AW71

	VO22 DIA. (BOLT CIRCLE) 10" (10.25") NOTES Non Lock Up High Stall 11" Mounting Ring	PILOT 1.575"	SPLINES 26	MOUNT 4 Holes APPLICATION CODES 1981-Up 2.8L 6 Cyl. Volvo
	VO19 DIA. (BOLT CIRCLE) 10.375" (8.5") NOTES Non Lock Up Low Stall	PILOT .750"	SPLINES 26	MOUNT 4 Holes, 10mm x 1.25 APPLICATION CODES 1981-Up 4 Cyl. Volvo (Including 940 2.3L Turbo) 3A, 9G, ODM, ODS
	VO18 DIA. (BOLT CIRCLE) 10.375" (8.5") NOTES Non Lock Up High Stall	PILOT .750"	SPLINES 26	MOUNT 4 Holes, 10mm x 1.25 APPLICATION CODES 1981-Up 4 Cyl. Volvo (Including 240 & Wagon 2.3L) M, ODM, ODS
	VO23 DIA. (BOLT CIRCLE) 11" (10") NOTES Non Lock Up Low Stall 11.25" Mounting Ring	PILOT 1.575"	SPLINES 26	MOUNT 4 Holes APPLICATION CODES 1981-Up 2.8L 6 Cyl. Volvo





PILOTS MAY VARY

Many Toyota converters are identical except the pilot design. If the converter matches the application, dimension and codes but the pilot is slightly different, it may interchange. (Refer to these photos for examples of Pilots that interchange)



TOYOTA

A40 VOLVO AW70L, AW72L

	VO24 DIA. (BOLT CIRCLE) 11.4" (9.625") NOTES Lock Up High Stall	PILOT 1.375"	SPLINES 20	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 1991-97 Volvo L Code, Blue, Pink or Red Dot
	VO25 DIA. (BOLT CIRCLE) 11.4" (9.6") NOTES Lock Up Low Stall	PILOT .825"	SPLINES 20	MOUNT 6 Pads APPLICATION CODES 1991-97 Volvo 960, S90 20A050
	VO21 DIA. (BOLT CIRCLE) 11.5" (8.5") NOTES Lock Up Low Stall	PILOT .750"	SPLINES 20	MOUNT 4 Pads APPLICATION CODES 1991-97 Volvo OD
	VO20 DIA. (BOLT CIRCLE) 11.5" (8.5") NOTES Lock Up High Stall	PILOT .750"	SPLINES 20	MOUNT 4 Pads APPLICATION CODES 1991-97 Volvo 2G, 5W, 7M, 9A, 9F, 9J, Blue & Pink Dot

THESE TWO PILOTS INTERCHANGE





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TOYOTA

A130, A140, A240, MX17 (NON LOCK UP)

 <p>TO31</p>	<p>DIA. (BOLT CIRCLE) 9.5" (7.75")</p> <p>NOTES Non Lock Up High Stall</p>	<p>PILOT .394"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads</p> <p>APPLICATION CODES 1985-92 Daihatsu, Isuzu, Suzuki Swift</p>
 <p>TO30</p>	<p>DIA. (BOLT CIRCLE) 9.5" (7.75")</p> <p>NOTES Non Lock Up High Stall Reduced Primary</p>	<p>PILOT 1.100"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads</p> <p>APPLICATION CODES 1988-Up Swift 1.3L, Sprint, Metro</p>
 <p>TO29LS</p>	<p>DIA. (BOLT CIRCLE) 9.5" (7.75")</p> <p>NOTES Non Lock Up Low Stall Reduced Primary</p>	<p>PILOT 1.100"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 1983-Up Swift 1.0L, Sprint, Firefly Black Dot, Purple Dot</p>
 <p>TO29</p>	<p>DIA. (BOLT CIRCLE) 9.5" (7.75")</p> <p>NOTES Non Lock Up High Stall</p>	<p>PILOT 1.100"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 1983-Up Swift 1.0L, Sprint, Firefly Black Dot, Purple Dot</p>



PILOTS MAY VARY

Many Toyota converters are identical except the pilot design. If the converter matches the application, dimension and codes but the pilot is slightly different, it may interchange. (Refer to these photos for examples of Pilots that interchange)










TOYOTA

A130, A140, A240, MX17 (LOCK UP)

 <p>T019</p>	DIA. (BOLT CIRCLE) 9.5" (7.75")	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads
NOTES Lock Up Med. Stall	APPLICATION CODES 1983-92 Corolla 1.6L, Nova, 98-02 Prism 1.8L Black Dot			
 <p>T058</p>	DIA. (BOLT CIRCLE) 9.5" (7.75")	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads
NOTES Lock Up High Stall	APPLICATION CODES 1987-89 Supercharged MR2, Corolla 1.6L Light Green Circle			
 <p>T022</p>	DIA. (BOLT CIRCLE) 9.875" (7.9")	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads
NOTES Lock Up Low Stall	APPLICATION CODES 1996-Up Prizm, 2002 Vibe 1.8L, 2004 Matrix 05, 202, J08, Some 30A070, 30A360, A131, Pink Circle w/ White Dot			
 <p>T033</p>	DIA. (BOLT CIRCLE) 9.875" (7.9")	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads, 8mm x 1.25
NOTES Lock Up High Stall	APPLICATION CODES 2003-07 Vibe 1.8L, 87-Up Celica, Corolla, MR2, Matrix, Paseo, Prizm, 92-98 Tercel 07, 7, Some 30A070, 30A108, R290			
 <p>T053</p>	DIA. (BOLT CIRCLE) 10.25" (9")	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads
NOTES Lock Up Med. Stall	APPLICATION CODES 1990-Up Celica 2.2L, 90-91 Camry 2.0L 4wd 17V, A240, A241			
 <p>T053LS</p>	DIA. (BOLT CIRCLE) 10.25" (9")	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads
NOTES Lock Up Low Stall	APPLICATION CODES 1990-Up Celica 2.2L, 90-91 Camry 2.0L 4wd 11P, 16U, 16Y, 17V, 18S, A240, A241			

TOYOTA

A130, A140, A240, MX17 (LOCK UP)

	T041 DIA. (BOLT CIRCLE) 10.25" (9") NOTES Lock Up Med. Stall	PILOT 1.257"	SPLINES 26	MOUNT 6 Holes APPLICATION CODES 1990-93 Celica GTS White Ring, Purple Dot
	T042 DIA. (BOLT CIRCLE) 10.3" (9") NOTES Lock Up Slightly Low Stall Can use T042B w/ 9mm Bolts	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 1988-00 Camry & Celica 2.2L, 1991 MR2 16U, #15 Bar Code, White Circle Around Pilot
	T042B DIA. (BOLT CIRCLE) 10.3" (9") NOTES Lock Up Slightly Low Stall Can use T042 w/ 8mm Bolts	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 1988-00 Camry & Celica 2.2L, 1991 MR2 16A, #15 Bar Code, 15B, Yellow Dots
	T018 DIA. (BOLT CIRCLE) 11.18" (8.975") NOTES Lock Up Med. Stall	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES 1983-01 Camry 2.0L, Celica 2.0L Black Dot
	T051 DIA. (BOLT CIRCLE) 11.375" (9") NOTES Lock Up Med. Stall Pilot Stepped .825" to 1.257"	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 1988-01 Some Camry, ES250, ES300, 94 Avalon Blue Circle Around Pilot
THESE TWO PILOTS INTERCHANGE				
				







TOYOTA

A340 SERIES, AW4

	TO38 DIA. (BOLT CIRCLE) 11" (9.625") NOTES Lock Up Med. Stall .375" Tall Pads	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES 1988-91 Trooper Pink Dot
	TO68 DIA. (BOLT CIRCLE) 11.2" (9.6") NOTES Lock Up Low Stall 1.30" Tall Pilot	PILOT .825"	SPLINES 20	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES Toyotas Y51, 42A030, 43A012, 43A020, 43A021, 43A030, 43A220
	TO47 DIA. (BOLT CIRCLE) 11.375" (8.5") NOTES Lock Up High Stall Replaces TO32B	PILOT .750"	SPLINES 26	MOUNT 6 Pads, 3/8 x 24 APPLICATION CODES 1986-Up Mitsubishi Trucks 8B, 8U, 9B, KC18D, TGO3D, Blue Circle w/ Blue Dot
	TO47L DIA. (BOLT CIRCLE) 11.375" (8.5") NOTES Lock Up Slightly Low Stall	PILOT .750"	SPLINES 26	MOUNT 6 Pads, 3/8 x 24 APPLICATION CODES 2N, 11B, Blue Circle w/ Green Dot
	TO18C DIA. (BOLT CIRCLE) 11.375" (9") NOTES Lock Up Slightly Low Stall 1.25" Tall Pilot .375" Tall Pads	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 1989-Up Lexus 2.5L, Cressida 2.4L, Trucks 3.0L 20A020, 9R, Green Circle w/ Blue Dot
	TO18B DIA. (BOLT CIRCLE) 11.375" (9") NOTES Lock Up Med. Stall .500" Tall Pads	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES 1987-Up Pickup, 4-Runner, 1987-92 Cressida Blue Circle w/ Red Dot








TOYOTA

A340 SERIES, AW4

	TO59 DIA. (BOLT CIRCLE) 11.375" (9.125") NOTES Lock Up Low Stall 1.30" Tall Pilot .405" Tall Pads	PILOT 1.257"	SPLINES 20	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 1995-04 4-Runner & T100 3.4L, Tacoma 2.7L, 3.4L, 93-98 Previa 2.4L, GS300, Supra 3.0L Turbo, SC300 03, O3, 20A020, Blue Circle w/ Red Dot
	TO40B DIA. (BOLT CIRCLE) 11.375" (9.125") NOTES Lock Up Slightly Low Stall .400" Tall Pads	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 1990-94 4-Runner 3.0L, 1987-92 Cressida 2N, AU, BU, Blue Circle w/ Red Dot, Green Circle w/ White Dot
	TO40 DIA. (BOLT CIRCLE) 11.375" (9.125") NOTES Lock Up High Stall .375" Tall Pads	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES 1986-98 Supra 3.0L, 1990-94 4-Runner 3.0L 8U, Pink Circle w/ Blue Dot
	TO60 DIA. (BOLT CIRCLE) 11.375" (9.188") NOTES Clutch Omitted Low Stall .420" Tall Pads	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 1995-98 Tacoma 4 Cyl., 1996-Up Pickup 3.4L 7P, 5F, 6F
	J29 DIA. (BOLT CIRCLE) 11.375" (9.25") NOTES Lock Up High Stall	PILOT .825"	SPLINES 26	MOUNT 4 Pads, 10mm APPLICATION CODES 1987-Up Cherokee 2.5L Green Circle w/ Red Dot
	J30 DIA. (BOLT CIRCLE) 11.375" (9.25") NOTES Lock Up Low Stall	PILOT 1.810"	SPLINES 26	MOUNT 4 Pads, 10mm APPLICATION CODES 1987-Up Cherokee 4.0L 9A, Green Circle w/ Pink Dot, Green Circle w/ White Dot













TOYOTA

A340 SERIES, AW4

		VO29 DIA. (BOLT CIRCLE) 11.375" (9.625") NOTES Lock Up High Stall 1.63" Tall Pilot	PILOT .825"	SPLINES 20	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 1993-97 Volvo 960 2.9L (Including 92 960 Wagon) 20A050, 8U, Red Circle w/ Green Dot, Pink Circle
		TO28 DIA. (BOLT CIRCLE) 11.375" (9.625") NOTES Lock Up Med. Stall .500" Tall Pads	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 1988-91 Trooper
		TO9701 DIA. (BOLT CIRCLE) 11.375" (9.75") NOTES Lock Up Low Stall	PILOT .825"	SPLINES 20	MOUNT 6 Pads, 10mm x 1.5 APPLICATION CODES 2004 Isuzu Rodeo 3.5L (A340) 07, 2062, Green Circle
		TO97 DIA. (BOLT CIRCLE) 11.4" (8.5") NOTES Lock Up Slightly Low Stall	PILOT .748"	SPLINES 20	MOUNT 6 Pads APPLICATION CODES 2002-04 Sorento 3.5L (A30-40LE) 11, 2048, Green Circle
		TO26-20 DIA. (BOLT CIRCLE) 11.4" (8.5") NOTES Lock Up Low Stall 1.12" Tall Pilot	PILOT .750"	SPLINES 20	MOUNT 6 Pads, 3/8 x 24 APPLICATION CODES 1998 Montero 3.0L (A340) 03, Two Green Circle w/ Blue Dot
		TO26 DIA. (BOLT CIRCLE) 11.4" (8.5") NOTES Lock Up High Stall	PILOT .750"	SPLINES 26	MOUNT 6 Pads, 10mm x 1.25 APPLICATION CODES 1986-Up Mitsubishi Montero, Vans Blue Circle w/ Green Dot



TOYOTA

A340 SERIES, AW4

 	VO25 DIA. (BOLT CIRCLE) 11.4" (9.6") NOTES Lock Up Low Stall	PILOT .825"	SPLINES 20	MOUNT 6 Pads APPLICATION CODES 1991-97 Volvo 960, S90 20A050
 	VO24 DIA. (BOLT CIRCLE) 11.4" (9.625") NOTES Lock Up High Stall	PILOT 1.375"	SPLINES 20	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 1991-97 Volvo AW72L, A340 L, Blue, Pink or Red Dot
 	T044 DIA. (BOLT CIRCLE) 11.5" (9.5") NOTES Lock Up Low Stall 1.35" Tall Pilot	PILOT 1.257"	SPLINES 20	MOUNT 6 Pads APPLICATION CODES 1989-97 Lexus LS400, SC400 01X, 0L, 9L
 	T070 DIA. (BOLT CIRCLE) 11.8" (9.5") NOTES Lock Up Low Stall 1.40" Tall Pilot .340" Tall Pads	PILOT 1.257"	SPLINES 20	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 53A020, 320
 	T071 DIA. (BOLT CIRCLE) 11.8" (9.5") NOTES Lock Up Low Stall 1.40" Tall Pilot .340" Tall Pads	PILOT 1.257"	SPLINES 20	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 2003-08 4 Runner 4.7L, 2005-08 Sequoia 4.7L 53A010, 53A011, Blue Dot
 	T014701 DIA. (BOLT CIRCLE) 11.85" (10.56") NOTES Lock Up Low Stall	PILOT 1.257"	SPLINES 20	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 2005-Up 4Runner, Tundra, Tacoma 4.0L 50A110, 53A040, 010, 320, 5011, 5304, 5A1

TOYOTA

A340, AW4

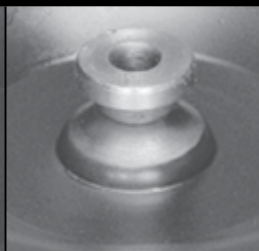
 <p>TO66</p>	<p>DIA. (BOLT CIRCLE) 11.85" (10.75")</p> <p>NOTES Lock Up Low Stall 1.45" Tall Pilot .500" Tall Pads</p>	<p>PILOT 1.257"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 1996-97 LX450 4.5L, 1998-02 LX470 4.7L, 1995-02 Landcruiser 4.5L, 4.7L 50A020, 5, E, 11, U</p>
 <p>TO44A</p>	<p>DIA. (BOLT CIRCLE) 11.85" (9.4")</p> <p>NOTES Lock Up Low Stall 1.45" Tall Pilot .475" Tall Pads</p>	<p>PILOT 1.257"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 1996-97 LX450, 1998-02 LX470, 00-04 Sequoia 4.7L, Tundra 3.4L, 4.7L 50A040, 50A070, 010, 5007, 5A1, 8F04U, 5A070, 5A100</p>

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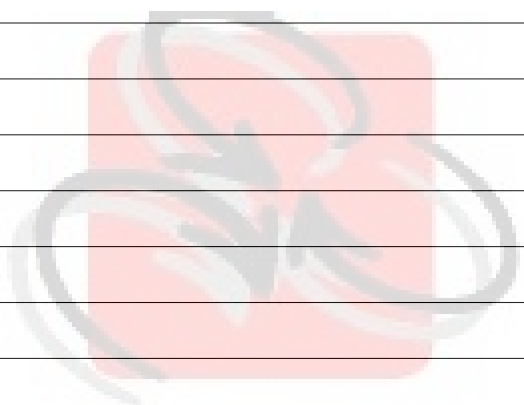
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PILOTS MAY VARY

Many Toyota converters are identical except the pilot design. If the converter matches the application, dimension and codes but the pilot is slightly different, it may interchange. (Refer to these photos for examples of Pilots that interchange)



NOTES



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TOYOTA

A540, A541

Toyota		DIA. (BOLT CIRCLE) 9.5" (7.75")	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads
		NOTES Lock Up Med. Stall	APPLICATION CODES 1998-02 Prism 1.8L Black Dot TSB: 8		
		DIA. (BOLT CIRCLE) 10.25" (9")	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads
		NOTES Lock Up Med. Stall	APPLICATION CODES 1990-91 Camry 2.0L 4wd 17V, A240, A241 TSB: 8		
		DIA. (BOLT CIRCLE) 10.25" (9")	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads
		NOTES Lock Up Low Stall	APPLICATION CODES 1990-91 Camry 2.0L 4wd 11P, 16U, 16Y, 17V, 18S, A240, A241 TSB: 8		
Toyota		DIA. (BOLT CIRCLE) 10.25" (9")	PILOT 1.257"	SPLINES 26	MOUNT 6 Holes
		NOTES Lock Up Med. Stall	APPLICATION CODES White Ring, Purple Dot TSB: 8		
		DIA. (BOLT CIRCLE) 10.3" (9")	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 8mm x 1.25
		NOTES Lock Up Slightly Low Stall Can use T042B w/ 9mm Bolts	APPLICATION CODES 1988-00 Camry 16U, #15 Bar Code, White Circle Around Pilot TSB: 8		
		DIA. (BOLT CIRCLE) 10.3" (9")	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25
		NOTES Lock Up Slightly Low Stall Can use T042 w/ 8mm Bolts	APPLICATION CODES 1988-00 Camry 16A, #15 Bar Code, 15B, Yellow Dots TSB: 8		

TOYOTA

A540, A541

 <p>T055</p>	<p>DIA. (BOLT CIRCLE) 11.125" (9.6")</p> <p>NOTES Lock Up Low Stall 9.8" Reduced Primary Pilot Stepped .825" to 1.257"</p>	<p>PILOT 1.257"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 1988-01 Some Camry, ES250, ES300, 1995-05 Avalon 3.0L, 1998-03 Sienna 3.0L</p> <p>(L)</p> <p>TSB: 8</p>
 <p>T055A</p>	<p>DIA. (BOLT CIRCLE) 11.125" (9.6")</p> <p>NOTES Lock Up Low Stall 10.2" Reduced Primary Pilot Stepped .825" to 1.257"</p>	<p>PILOT 1.257"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 1988-01 Some Camry, ES250, ES300, 1995-05 Avalon 3.0L, 1998-03 Sienna 3.0L</p> <p>(L)</p> <p>TSB: 8</p>
 <p>T055L</p>	<p>DIA. (BOLT CIRCLE) 11.15" (9.6")</p> <p>NOTES Lock Up Very Low Stall</p>	<p>PILOT 1.257"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 2004-08 Highlander 3.3L, Camry 3.3L, Sienna 3.3L</p> <p>04 Ink Stamp, 02</p> <p>TSB: 8</p>
 <p>T018</p>	<p>DIA. (BOLT CIRCLE) 11.18" (8.975")</p> <p>NOTES Lock Up Med. Stall</p>	<p>PILOT 1.257"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads</p> <p>APPLICATION CODES 1983-01 Camry 2.0L</p> <p>Black Dot</p> <p>TSB: 8</p>
 <p>T051</p>	<p>DIA. (BOLT CIRCLE) 11.375" (9")</p> <p>NOTES Lock Up Med. Stall Pilot Stepped .825" to 1.257"</p>	<p>PILOT 1.257"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 1988-01 Some Camry, ES250, ES300, 94 Avalon</p> <p>Blue Circle Around Pilot</p> <p>TSB: 8</p>
<p>THESE TWO PILOTS INTERCHANGE</p>				
				Toyota

TOYOTA

A650E

 <p>T059</p>	<p>DIA. (BOLT CIRCLE) 11.375" (9.125")</p> <p>NOTES Lock Up Low Stall 1.30" Tall Pilot .405" Tall Pads</p>	<p>PILOT 1.257"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 03, O3, 20A020, 31287, OE26M, Blue Circle w/ Red Dot</p>
 <p>T044B</p>	<p>DIA. (BOLT CIRCLE) 11.8" (9.5")</p> <p>NOTES Lock Up Low Stall .400" Tall Pads</p>	<p>PILOT 1.257"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 2001-02 LS, GS 4.3L A080A, 5A1</p>
 <p>T044A</p>	<p>DIA. (BOLT CIRCLE) 11.85" (9.4")</p> <p>NOTES Lock Up Low Stall 1.45" Tall Pilot .475" Tall Pads</p>	<p>PILOT 1.257"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 50A040, 50A070, 010, 5007, 5A1, 8F04U, 5A070, 5A100, Green Circle w/ Pink Dot</p>

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Transmissions – Parts & Service

TOYOTA

A750E, A760E, A761E, A960E, AB60E

 <p>T070</p>	<p>DIA. (BOLT CIRCLE) 11.8" (9.5")</p> <p>NOTES Lock Up Low Stall 1.40" Tall Pilot .340" Tall Pads</p>	<p>PILOT 1.257"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 53A020, 320</p> <p>TSB: 182, 183, 184</p>
 <p>T071</p>	<p>DIA. (BOLT CIRCLE) 11.8" (9.5")</p> <p>NOTES Lock Up Low Stall 1.40" Tall Pilot .340" Tall Pads</p>	<p>PILOT 1.257"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 2003-08 4 Runner 4.7L, 2005-08 Sequoia 4.7L, 2003-09 GX470 4.7L 53A010, 53A011, Blue Dot</p> <p>TSB: 182, 183, 184</p>
 <p>T014701</p>	<p>DIA. (BOLT CIRCLE) 11.85" (10.56")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT 1.257"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 2005-Up 4Runner, Tundra, Tacoma 4.0L 50A110, 53A040, 010, 320, 5011, 5304, 5A1</p> <p>TSB: 182, 183, 184</p>
 <p>T015701</p>	<p>DIA. (BOLT CIRCLE) 11.87" (10.56")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT 1.257"</p>	<p>SPLINES 24</p>	<p>MOUNT 6 Pads, 10mm x 1.25</p> <p>APPLICATION CODES 2007-12 Tundra 5.7L (AB60E, AB60F) B, L, LB</p>







TOYOTA

U140E, U140F, U240E, U241E

	T033 DIA. (BOLT CIRCLE) 9.875" (7.9") NOTES Lock Up High Stall	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 2003-07 Vibe 1.8L, 87-Up Celica, Corolla, MR2, Matrix, Paseo, Prizm, 92-98 Tercel 07, 7, R, Some 30A070, 30A108, R290 TSB: 42, 43, 44
	T075 DIA. (BOLT CIRCLE) 10.3" (9") NOTES Lock Up Med. Stall	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 2000-08 Rav4 2.0L, 02-05 Solara 2.4L, 00-12 Camry 2.4L 40A970, 14, 22, 16U, 1B14V TSB: 42, 43, 44
	T075L DIA. (BOLT CIRCLE) 10.3" (9") NOTES Lock Up Low Stall Replaced by T042B	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 2001-07 Highlander 2.4L 40A980, 11, 21, 16U TSB: 42, 43, 44
	T042B DIA. (BOLT CIRCLE) 10.3" (9") NOTES Lock Up Slightly Low Stall Replaces T075L	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 2005 Camry 2.4L, 2001-07 Highlander 2.4L 11, 21, 16A, 16U, #15 Bar Code, 15B, Yellow Dots, 40A980 TSB: 42, 43, 44
	T064 DIA. (BOLT CIRCLE) 10.315" (9") NOTES Lock Up Med. Stall	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 2000-Up Camry 2.4L (U241E), 2004 Camry 2.4L (U140E) #16A Bar Code TSB: 42, 43, 44
	T064A DIA. (BOLT CIRCLE) 10.315" (9") NOTES Lock Up	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES 2000-Up Camry 2.4L (U241E), 2004 Camry 2.4L (U140E) TSB: 42, 43, 44

TOYOTA

U140E, U140F, U240E, U241E

	TO33L DIA. (BOLT CIRCLE) 10.4" (7.9") NOTES Lock Up Low Stall Pilot Stepped .825" to 1.100" Can Use TO73 w/ 8mm Bolts	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 2000-05 Celica GTS 1.8L 13, 14, 19, Blue Circle TSB: 42, 43, 44
	TO73 DIA. (BOLT CIRCLE) 10.4" (7.9") NOTES Lock Up Slightly Low Stall .365" Tall Pads Can Use TO33L w/ 9mm Bolts	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 2000-05 Celica GTS 1.8L 12, 19, Y/030417 TSB: 42, 43, 44
	TO55A DIA. (BOLT CIRCLE) 11.125" (9.6") NOTES Lock Up Low Stall 10.2" Reduced Primary Pilot Stepped .825" to 1.257"	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 1999-01 ES300, 1998-03 RX300, 2001-07 Highlander 3.0L (L) TSB: 42, 43, 44
	TO55 DIA. (BOLT CIRCLE) 11.125" (9.6") NOTES Lock Up Low Stall 9.8" Reduced Primary Pilot Stepped .825" to 1.257"	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 1999-01 ES300 w/ U140E, 1998-03 RX300 (L) TSB: 42, 43, 44
	TO55L DIA. (BOLT CIRCLE) 11.15" (9.6") NOTES Lock Up Very Low Stall .380" Tall Pads	PILOT 1.257"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 2004-08 Highlander 3.3L, Camry 3.3L, Sienna 3.3L 04 Ink Stamp, 02 TSB: 42, 43, 44
	TO70 DIA. (BOLT CIRCLE) 11.8" (9.5") NOTES Lock Up Low Stall 1.40" Tall Pilot .340" Tall Pads	PILOT 1.257"	SPLINES 20	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES 1998-03 RX300 3.0L 53A020, 320 TSB: 42, 43, 44

TOYOTA

U150, U151, U250, U251

 <p>TO42</p>	<p>DIA. (BOLT CIRCLE) 10.3" (9")</p> <p>NOTES Lock Up Slightly Low Stall Can use TO42B w/ 9mm Bolts</p>	<p>PILOT 1.257"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 2005 Camry 2.4L 16A, #15 Bar Code, 15B, Yellow Dots</p> <p>TSB: 42, 43</p>
 <p>TO42B</p>	<p>DIA. (BOLT CIRCLE) 10.3" (9")</p> <p>NOTES Lock Up Slightly Low Stall Can use TO42 w/ 8mm Bolts</p>	<p>PILOT 1.257"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 2005 Camry 2.4L 16A, #15 Bar Code, 15B, Yellow Dots</p> <p>TSB: 42, 43</p>
 <p>TO55A</p>	<p>DIA. (BOLT CIRCLE) 11.125" (9.6")</p> <p>NOTES Lock Up Low Stall 10.2" Reduced Primary Pilot Stepped .825" to 1.257"</p>	<p>PILOT 1.257"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 1999-01 ES300, 1998-03 RX300, 2001-07 Highlander 3.0L</p> <p>Ⓛ</p> <p>TSB: 42, 43</p>
 <p>TO55L</p>	<p>DIA. (BOLT CIRCLE) 11.15" (9.6")</p> <p>NOTES Lock Up Very Low Stall</p>	<p>PILOT 1.257"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 2004-08 Highlander 3.3L, Camry 3.3L, Sienna 3.3L 04 Ink Stamp, 02</p> <p>TSB: 42, 43</p>

THESE TWO PILOTS INTERCHANGE



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TOYOTA

U340E, U341E





TO3701 	DIA. (BOLT CIRCLE) 9.875" (7.9") NOTES Lock Up Med. Stall	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 2008-11 Scion XD 1.8L, 2009 Corolla 1.8L 40, 41, R
TO22 	DIA. (BOLT CIRCLE) 9.875" (7.9") NOTES Lock Up Low Stall	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES 1996-Up Prizm, 2002 Vibe 1.8L, 2004 Matrix 05, 202, J08, Some 30A070, 30A360, A131, Pink Circle w/ White Dot
TO33 	DIA. (BOLT CIRCLE) 9.875" (7.9") NOTES Lock Up High Stall	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 2003-07 Vibe 1.8L, 87-Up Celica, Corolla, MR2, Matrix, Paseo, Prizm, 92-98 Tercel 07, 7, R, Some 30A070, 30A108, R290

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TOYOTA

U340E, U341E

 <p>T033L</p>	<p>DIA. (BOLT CIRCLE) 10.4" (7.9")</p> <p>NOTES Lock Up Low Stall Can Use T073 w/ 8mm Bolts</p>	<p>PILOT 1.100"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 2000-05 Celica GTS 1.8L 13, 14, 19, Blue Circle</p>
 <p>T073</p>	<p>DIA. (BOLT CIRCLE) 10.4" (7.9")</p> <p>NOTES Lock Up Slightly Low Stall Can Use T033L w/ 9mm Bolts</p>	<p>PILOT 1.100"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 2000-05 Celica GTS 1.8L 12, 19, Y/030417</p>
 <p>T078</p>	<p>DIA. (BOLT CIRCLE) 11.188" (9.25")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 8mm x 1.25</p> <p>APPLICATION CODES 2003-07 43A080, 43A090</p>
 <p>T071</p>	<p>DIA. (BOLT CIRCLE) 11.8" (9.5")</p> <p>NOTES Lock Up Low Stall 1.40" Tall Pilot</p>	<p>PILOT 1.257"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 9mm x 1.25</p> <p>APPLICATION CODES 2003-08 53A010, 53A011, Blue Dot</p>

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TOYOTA

PILOTS











PILOTS MAY VARY

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VOLVO

NON LOCK UP







	T031 DIA. (BOLT CIRCLE) 9.5" (7.75") NOTES Non Lock Up High Stall	PILOT .394"	SPLINES 26	MOUNT 6 Pads APPLICATION CODES A340 Series, 1983-Up
	T029 DIA. (BOLT CIRCLE) 9.5" (7.75") NOTES Non Lock Up High Stall	PILOT 1.100"	SPLINES 26	MOUNT 6 Pads, 9mm x 1.25 APPLICATION CODES A340 Series, 1983-Up Black Dot, Purple Dot
	VO22 DIA. (BOLT CIRCLE) 10" (10.25") NOTES Non Lock Up High Stall 11" Mounting Ring	PILOT 1.575"	SPLINES 26	MOUNT 4 Holes APPLICATION CODES AW70, AW71, 1981-Up 2.8L 6 Cyl. Volvo
	VO18 DIA. (BOLT CIRCLE) 10.375" (8.5") NOTES Non Lock Up High Stall	PILOT .750"	SPLINES 26	MOUNT 4 Holes, 10mm x 1.25 APPLICATION CODES AW70, AW71, 1981-Up 4 Cyl. Volvo (Including 240 & Wagon 2.3L) M, ODM, ODS
	VO19 DIA. (BOLT CIRCLE) 10.375" (8.5") NOTES Non Lock Up Low Stall	PILOT .750"	SPLINES 26	MOUNT 4 Holes, 10mm x 1.25 APPLICATION CODES AW70, AW71, 1981-Up 4 Cyl. Volvo (Including 940 2.3L Turbo) 3A, 9G, ODM, ODS
	VO6 DIA. (BOLT CIRCLE) 10.5" (10.25") NOTES Non Lock Up Extended Ring Cooling Shroud	PILOT 1.575"	SPLINES 26	MOUNT 4 Holes APPLICATION CODES AW55, BW55, 1976-81 2.7L 6 Cyl. 5011, 5019







VOLVO

NON LOCK UP

 <p>V07</p>	<p>DIA. (BOLT CIRCLE) 10.5" (8.5")</p> <p>NOTES Non Lock Up Cooling Shroud</p>	<p>PILOT .750"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Holes</p> <p>APPLICATION CODES AW55, BW55, 1973-84 4 Cyl. 5011, 5019</p>
 <p>V016</p>	<p>DIA. (BOLT CIRCLE) 10.5" (8.5")</p> <p>NOTES Non Lock Up w/ Extended Ring</p>	<p>PILOT .750"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Holes</p> <p>APPLICATION CODES AW55, BW55, 1976-81 4 Cyl. 5009 (Some)</p>
 <p>V09</p>	<p>DIA. (BOLT CIRCLE) 10.5" (8.5)</p> <p>NOTES Non Lock Up Cooling Shroud</p>	<p>PILOT .750"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Pads</p> <p>APPLICATION CODES AW55, BW55, 1979-82 Volvo 4 Cyl., 240 Wagon, Saab 5007, 5015, 5021</p>
 <p>V023</p>	<p>DIA. (BOLT CIRCLE) 11" (10")</p> <p>NOTES Non Lock Up Low Stall 11.25" Mounting Ring</p>	<p>PILOT 1.575"</p>	<p>SPLINES 26</p>	<p>MOUNT 4 Holes</p> <p>APPLICATION CODES AW70, AW71, 1981-Up 2.8L 6 Cyl. Volvo</p>

VOLVO LOCK UP

	VO28 DIA. (BOLT CIRCLE) 10.25" (9.5") NOTES Lock Up Med. Stall 1.25" Tall Pilot	PILOT .825"	SPLINES 26	MOUNT 6 Pads, .340" Tall APPLICATION CODES AW50-40LE, AW55-50SN, 1993-97 Volvo 850 2.3L, 2.4L 40A020, Q2, HO6, 16U
	VO30 DIA. (BOLT CIRCLE) 10.625" (9.625") NOTES Lock Up 1600-1800 Stall Carbon Woven	PILOT .825"	SPLINES 27	MOUNT 6 Pads, 8mm x 1.25 APPLICATION CODES 4T65E, 1999-02 Volvo S80 2.9L FLTV, FLVV, 24211943, 24216629 TSB: 106, 109, 112, 113, 116, 117, 165
	VO32 DIA. (BOLT CIRCLE) 10.625" (9.625") NOTES Lock Up 1500-1700 Stall Carbon Woven	PILOT .825"	SPLINES 27	MOUNT 6 Pads APPLICATION CODES 4T65E, 1999-06 S80 2.8L Turbo, 2002-06 XC90 2.9L FMTV, FMVV, 24211944, 24216630 TSB: 106, 109, 112, 113, 116, 117, 165, 1064
	VO10 DIA. (BOLT CIRCLE) 10.75" (8.5") NOTES Lock Up	PILOT .750"	SPLINES 27	MOUNT 4 Holes APPLICATION CODES ZF4HP22, ZF4HP24, 1984-Up Volvo 740GL, GLe AG, C3, G, U3, UE
	VO27 DIA. (BOLT CIRCLE) 10.875" (11.75") NOTES Lock Up 132T Ring Gear	PILOT 1.257"	SPLINES 27	MOUNT 8 Holes APPLICATION CODES ZF5HP18, 1995-Up Volvos & Porsche 911 K10
	BMW22 DIA. (BOLT CIRCLE) 11" (8.5") NOTES Lock Up Can use VO10	PILOT .750"	SPLINES 27	MOUNT 4 Pads APPLICATION CODES ZF4HP22, ZF4HP24, 1986-Up Volvo 760Gi Turbo Diesel C3, U3, UE

 <p>T023</p>	<p>DIA. (BOLT CIRCLE) 11" (8.5")</p> <p>NOTES Lock Up High Stall Pilot Stepped .650" to .825"</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 3 Pads, 10mm x 1.25</p> <p>APPLICATION CODES A40 Series, 1996-97 Tracker 1.6L, 1995-98 X-90, 1992-98 Sidekick 1.6L, 1.8L Some Geo Prizm 10A610, Red Circle w/ Blue Dot</p>
 <p>V015</p>	<p>DIA. (BOLT CIRCLE) 11" (9.75")</p> <p>NOTES Lock Up</p>	<p>PILOT .945"</p>	<p>SPLINES 27</p>	<p>MOUNT 3 Pads</p> <p>APPLICATION CODES ZF4HP22, ZF4HP24, 1984-Up 760GLE Turbo Diesel, 740GLE C2, N3</p>
 <p>V013</p>	<p>DIA. (BOLT CIRCLE) 11" (9.75")</p> <p>NOTES Lock Up Med. Stall Pilot Stepped .945" to 1.040"</p>	<p>PILOT 1.040"</p>	<p>SPLINES 27</p>	<p>MOUNT 3 Holes, 8mm x 1.25</p> <p>APPLICATION CODES ZF4HP22, ZF4HP24, 1984-Up Volvo 740, 760 C2, N3</p>
 <p>V031</p>	<p>DIA. (BOLT CIRCLE) 11.125" (9.25")</p> <p>NOTES Lock Up Low Stall 1.30" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, .340" Tall</p> <p>APPLICATION CODES AW50-40LE, AW55-50SN, 1993-97 Volvo 850 2.3L, 2.4L 42A020, Q2, HO6, 16U</p>
 <p>V029</p>	<p>DIA. (BOLT CIRCLE) 11.375" (9.625")</p> <p>NOTES Lock Up High Stall 1.63" Tall Pilot</p>	<p>PILOT .825"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 8mm x 1.25</p> <p>APPLICATION CODES A340 Series, 1993-97 Volvo 960 2.9L (Including 92 960 Wagon) AW4, 20A050, 8U, Red Circle w/ Green Dot, Pink Circle</p>
 <p>T026</p>	<p>DIA. (BOLT CIRCLE) 11.4" (8.5")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT .750"</p>	<p>SPLINES 26</p>	<p>MOUNT 6 Pads, 10mm x 1.25</p> <p>APPLICATION CODES A340 Series, 1986-Up AW4, Blue Circle w/ Green Dot</p>

VOLVO LOCK UP

 <p>VO25</p>	<p>DIA. (BOLT CIRCLE) 11.4" (9.6")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT .825"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads</p> <p>APPLICATION CODES AW70L, AW72L, A340, 1991-97 Volvo 960, S90 20A050</p>
 <p>VO24</p>	<p>DIA. (BOLT CIRCLE) 11.4" (9.625")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT 1.375"</p>	<p>SPLINES 20</p>	<p>MOUNT 6 Pads, 8mm x 1.25</p> <p>APPLICATION CODES AW70L, AW72L, A340 1991-97 Volvo Blue, Pink or Red Dot</p>
 <p>VO20</p>	<p>DIA. (BOLT CIRCLE) 11.5" (8.5")</p> <p>NOTES Lock Up High Stall</p>	<p>PILOT .750"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads</p> <p>APPLICATION CODES AW70L, AW72L, 1991-97 Volvo 2G, 5W, 7M, 9A, 9F, 9J, Blue & Pink Dot</p>
 <p>VO21</p>	<p>DIA. (BOLT CIRCLE) 11.5" (8.5")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT .750"</p>	<p>SPLINES 20</p>	<p>MOUNT 4 Pads</p> <p>APPLICATION CODES AW70L, AW72L, 1991-97 Volvo OD</p>
 <p>VO3901</p>	<p>DIA. (BOLT CIRCLE) 11.565" (9.565")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT .824"</p>	<p>SPLINES 23</p>	<p>MOUNT 6 Pads, 10mm x 1.25</p> <p>APPLICATION CODES TF-80SC 2005-11 Volvo XC90 4.4L TF-80SC, 70A020</p> <p>TSB: 56</p>
 <p>VO26</p>	<p>DIA. (BOLT CIRCLE) 11.75" (9.75")</p> <p>NOTES Lock Up</p>	<p>PILOT .945"</p>	<p>SPLINES 27</p>	<p>MOUNT 3 Pads</p> <p>APPLICATION CODES ZF4HP22, ZF4HP24, 1984-Up Audi, Volvo J8</p>

 	VW9800 DIA. (BOLT CIRCLE) 10.125" (9.25") NOTES Lock Up Med. Stall 114T Ring Gear Replaces DA90, VW0980	PILOT .825"	SPLINES 20	MOUNT 3 Studs, 10mm x 1.0 APPLICATION CODES 2000-05 Jetta 1.8L (Not 2.8L) J, J4, Yellow Paint, White Dot TSB: 179, 180, 181
 	VW9801 DIA. (BOLT CIRCLE) 10.75" (9.25") NOTES Lock Up Med. Stall 114T Ring Gear Replaces VW0981	PILOT .825"	SPLINES 20	MOUNT 3 Studs, 10mm x 1.0 APPLICATION CODES 2002-03 Jetta 2.8L Gas #19 TSB: 179, 180, 181
 	VW9802 DIA. (BOLT CIRCLE) 10.75" (9.25") NOTES Lock Up Low Stall 114T Ring Gear Replaces VW0982	PILOT .825"	SPLINES 20	MOUNT 3 Studs, 10mm x 1.0 APPLICATION CODES 2004-08 Jetta 1.9L Diesel #23 TSB: 179, 180, 181



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VW

VW









09D, TR60SN

 <p>PCH59</p>	<p>DIA. (BOLT CIRCLE) 11.563" (10.125")</p> <p>NOTES Captive Clutch Low Stall Replaces VW23 & VW15901</p>	<p>PILOT .628"</p>	<p>SPLINES 24</p>	<p>MOUNT 3 Pads, 10mm x 1.0</p> <p>APPLICATION CODES 2004 Porsche Cayenne 20, D7344, 09D-323-521</p> <p>TSB: 73, 157</p>
 <p>VW59</p>	<p>DIA. (BOLT CIRCLE) 11.85" (10.125")</p> <p>NOTES Lock Up Low Stall</p>	<p>PILOT .629"</p>	<p>SPLINES 24</p>	<p>MOUNT 3 Pads, 10mm x 1.0</p> <p>APPLICATION CODES 2002-11 VW Touareg 4.2L 571T, 50A150, 05, Pink Circle, 09D-323-571T</p> <p>TSB: 73, 157</p>

NOTES


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 	BMW1501 DIA. (BOLT CIRCLE) 10.4" (9.25") NOTES Lock Up Slightly High Stall	PILOT 1.335" SPLINES 20 MOUNT 6 Studs, 10mm x 1.0	APPLICATION CODES 2005-11 BMW Mini Cooper S Type 1.6L 46A100 TSB: 56, 143
 	VW1502 DIA. (BOLT CIRCLE) 10.4" (9.25") NOTES Lock Up Slightly Low Stall	PILOT .825" SPLINES 20 MOUNT 6 Studs, 10mm x 1.0	APPLICATION CODES 2003-06 Audi TT 1.8L 2wd 571D, 46A010, 072-08122, 09G-323-571D TSB: 56, 143
 	VW1501 DIA. (BOLT CIRCLE) 10.4" (9.25") NOTES Lock Up Low Stall	PILOT .825" SPLINES 20 MOUNT 6 Studs, 10mm x 1.0	APPLICATION CODES 571A, 46A110, 079-00937, 09G-323-571A TSB: 56, 143
 	VW1503 DIA. (BOLT CIRCLE) 10.4" (9.25") NOTES Lock Up Slightly Low Stall	PILOT .825" SPLINES 20 MOUNT 6 Studs, 10mm x 1.0	APPLICATION CODES 2003-10 Beetle 2.0L 571E, 571G, 46A040, 46A060, QBAA, QEAA, QHAA, 09G-323-571E, 09G-323-571G TSB: 56, 143


09G Converter Identification


Letter A, D, E or G









On the stud side of the converter (Cover)
Locate the code **09G 323 571**
The **Letter** after the **571** will identify the
converter part number as seen below


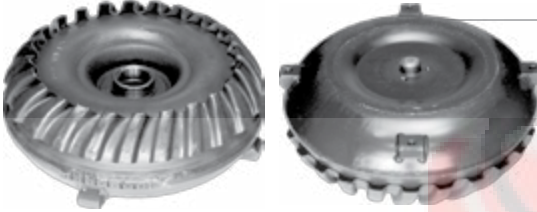



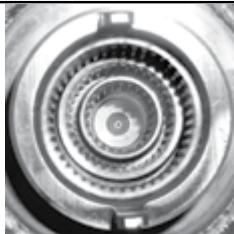
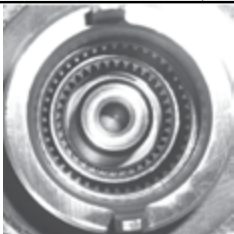

571 A	VW1501
571 E	VW1502
571 E	VW1503
571 G	VW1502





VW**01M, 01N, 01P, 095, 096, 097, 098 (AG4)**

	VW18 DIA. (BOLT CIRCLE) 10.5" (9.25") NOTES Damper Lock Up Med. Stall No Ring Gear Pilot Stepped .630" to .825"	PILOT .825"	SPLINES 36	MOUNT 3 Studs, 10mm x 1.0 APPLICATION CODES 1990-94 w/ 3 Sets of Splines LBCA, LCCA, 095 TSB: 6, 91, 92, 93, 94, 162
	VW20A DIA. (BOLT CIRCLE) 10.5" (9.25") NOTES Clutch Lock Up Med. Stall No Ring Gear Pilot Stepped .630" to .825"	PILOT .825"	SPLINES 36	MOUNT 3 Studs, 10mm x 1.0 APPLICATION CODES 1995-Up w/ 2 Sets of Splines, Hollow Stud Center LCDC TSB: 6, 91, 92, 93, 94, 162
	VW21A DIA. (BOLT CIRCLE) 10.5" (9.25") NOTES Clutch Lock Up Med. Stall No Ring Gear Pilot Stepped .630" to .825"	PILOT .825"	SPLINES 36	MOUNT 3 Studs, 10mm x 1.0 APPLICATION CODES 1995-Up w/ 2 Sets of Splines, Bearing in Center TSB: 6, 91, 92, 93, 94, 162
	VW17 DIA. (BOLT CIRCLE) 10.5" (9.25") NOTES Damper Lock Up Med. Stall 125T Gear Pilot Stepped .630" to .825"	PILOT .825"	SPLINES 36	MOUNT 3 Studs, 10mm x 1.0 APPLICATION CODES 1990-94 w/ 3 Sets of Splines QACA, QADC, QCCR, 095, 096 TSB: 6, 91, 92, 93, 94, 162
	VW20 DIA. (BOLT CIRCLE) 10.5" (9.25") NOTES Clutch Lock Up Med. Stall 125T Gear Pilot Stepped .630" to .825"	PILOT .825"	SPLINES 36	MOUNT 3 Studs, 10mm x 1.0 APPLICATION CODES 1995-Up w/ 2 Sets of Splines, Hollow Stud Center QACD, QADB, QADC, QBDB, QBDC, QCDC, QCDR, QDDT, 01M TSB: 6, 91, 92, 93, 94, 162
	VW21 DIA. (BOLT CIRCLE) 10.5" (9.25") NOTES Clutch Lock Up Med. Stall 125T Gear Pilot Stepped .630" to .825"	PILOT .825"	SPLINES 36	MOUNT 3 Studs, 10mm x 1.0 APPLICATION CODES 1995-Up w/ 2 Sets of Splines, Bearing in Center QADD, QBDD, QBDJ, QCDD, QDDJ, QDDT, 01M TSB: 6, 91, 92, 93, 94, 162

VW13 		DIA. (BOLT CIRCLE) 10.5" (9.75")	PILOT .825"	SPLINES 26	MOUNT 3 Pads
NOTES Non Lock Up .750" Hub Height Replaces VW4		APPLICATION CODES 1975-Up Audi 80, 90 090, Y			
VW15 		DIA. (BOLT CIRCLE) 10.5" (9.875")	PILOT .825"	SPLINES 26	MOUNT 4 Pads
NOTES Non Lock Up		APPLICATION CODES 1975-Up Audi 5000S (087) N, W			
VW11 		DIA. (BOLT CIRCLE) 10.5" (10")	PILOT .825"	SPLINES 26	MOUNT 3 Pads
NOTES Non Lock Up 130T Ring Gear		APPLICATION CODES 1975-Up Vanagon (090) 003			
AU2 		DIA. (BOLT CIRCLE) 10.5" (10")	PILOT .825"	SPLINES 26	MOUNT 3 Pads
NOTES Non Lock Up 3000-3200 Stall .567" Hub Height		APPLICATION CODES 1975-Up Audi 100LS, 4000, 5000, Quattro, Porsche G, Q			
VW14 		DIA. (BOLT CIRCLE) 10.5" (10")	PILOT .825"	SPLINES 26	MOUNT 3 Pads
NOTES Non Lock Up 2100-2300 Stall .580" Hub Height		APPLICATION CODES 1975-Up Audi 100LS, 4000, 5000, Quattro, Porsche K, 010, 087, 089			
TO ID VW17, VW20, VW21					
					
					
	VW17 (3 Sets of Splines)	VW20 (2 Sets of Splines, Hollow Center Stud)	VW21(2 Sets of Splines, w/sleeve bearing)		

ZF

ZF4HP14, ZF4HP18

	BMW16 DIA. (BOLT CIRCLE) 10" (9.25") NOTES Non Lock Up	PILOT .475"	SPLINES 29	MOUNT 3 Pads APPLICATION CODES 1989-Up Peugeot, Saab, 9000S K8
	SA8A DIA. (BOLT CIRCLE) 10.9" (9.25") NOTES Lock Up Med. Stall	PILOT .825"	SPLINES 34	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 1998 Saab 9000 3.0L N19
	SA7 DIA. (BOLT CIRCLE) 11" (9.25") NOTES Non Lock Up	PILOT .629"	SPLINES 34	MOUNT 3 Pads APPLICATION CODES 1987-97 Saab 9000 2.3L, Alfa Romeo M6
	SA8 DIA. (BOLT CIRCLE) 11" (9.25") NOTES Non Lock Up	PILOT .825"	SPLINES 34	MOUNT 3 Pads APPLICATION CODES 1987-97 Saab 900 Q15
	SA4 DIA. (BOLT CIRCLE) 11" (9.25") NOTES Non Lock Up	PILOT 1.100"	SPLINES 34	MOUNT 3 Pads APPLICATION CODES 1987-97 Saab 9000S Turbo C6, D6

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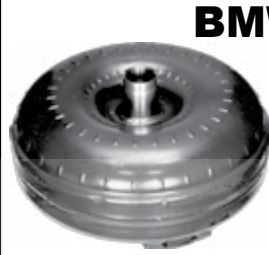




ZF

ZF4HP22, ZF4HP24

	BMW12 DIA. (BOLT CIRCLE) 10" (9") NOTES Lock Up	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1984-85 318i, 1986-E87 325i U2, U4, V2, V4
	VO10 DIA. (BOLT CIRCLE) 10.75" (8.5") NOTES Lock Up	PILOT .750"	SPLINES 27	MOUNT 4 Holes APPLICATION CODES 1984-Up Volvo 740GL, GLe AG, C3, G, U3, UE
	BMW22 DIA. (BOLT CIRCLE) 11" (8.5") NOTES Lock Up Can use VO10	PILOT .750"	SPLINES 27	MOUNT 4 Pads APPLICATION CODES 1986-Up Volvo 760Gi Turbo Diesel C3, U3, UE
	BMW19 DIA. (BOLT CIRCLE) 11" (8.5") NOTES Lock Up	PILOT 1.100"	SPLINES 27	MOUNT 4 Pads APPLICATION CODES 1987-96 Peugeot 505 Diesel H5, M4
	BMW13 DIA. (BOLT CIRCLE) 11" (8.5") NOTES Lock Up	PILOT 1.257"	SPLINES 27	MOUNT 4 Studs APPLICATION CODES 1984-Up Continental 2.4L Diesel A3
	BMW34 DIA. (BOLT CIRCLE) 11" (8.5") NOTES Lock Up	PILOT 1.257"	SPLINES 27	MOUNT 4 Pads APPLICATION CODES 1983-88 325e 2.5L, 1983-87 533i A3

ZF

ZF4HP22, ZF4HP24

 	BMW11 DIA. (BOLT CIRCLE) 11" (9") NOTES Lock Up Can use BMW17	PILOT 1.257"	SPLINES 27	MOUNT 3 Holes APPLICATION CODES 1984-Up BMW 325e, 528e, 628CSi, 735i L1, N2, R1, R2, R3, S1, U1, W2
 	BMW17 DIA. (BOLT CIRCLE) 11" (9") NOTES Lock Up	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1987-91 BMW 325i, 1984-93 535Si, 1988-94 850 C7, R2, R7, T8, W2, 90, 06
 	VO15 DIA. (BOLT CIRCLE) 11" (9.75") NOTES Lock Up See Also VO13 Med. Stall Pilot Stepped .945" to 1.040"	PILOT .945"	SPLINES 27	MOUNT 3 Pads APPLICATION CODES 1984-Up 760GLE Turbo Diesel, 740GLE C2, N3
 	VO13 DIA. (BOLT CIRCLE) 11" (9.75") NOTES Lock Up Med. Stall Pilot Stepped .945" to 1.040"	PILOT 1.040"	SPLINES 27	MOUNT 3 Holes, 8mm x 1.25 APPLICATION CODES 1984-Up Volvo 740, 760 C2, N3
 	BMW23 DIA. (BOLT CIRCLE) 11" (10.25") NOTES Lock Up	PILOT 1.565"	SPLINES 27	MOUNT 4 Pads APPLICATION CODES 1987-96 Peugeot 505 R4

ZF




ZF

ZF4HP22, ZF4HP24

	BMW21 DIA. (BOLT CIRCLE) 11.75" (9")	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads
	NOTES Lock Up	APPLICATION CODES 1984-86 BMW 745i A9, P1		
	BMW24 DIA. (BOLT CIRCLE) 11.75" (9")	PILOT 1.376"	SPLINES 27	MOUNT 4 Pads, 10mm x 1.5
	NOTES Lock Up Med. Stall Pilot Stepped 1.060" to 1.376"	APPLICATION CODES 1988-97 Jaguar XJ6, Range Rover K2		
	JA3 DIA. (BOLT CIRCLE) 11.75" (9.25")	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads
	NOTES Lock Up	APPLICATION CODES 1988-97 Jaguar XJ6 w/ 3 Pads, 1984-93 535i AG, H3, T7, Z1, Z6		
	VO26 DIA. (BOLT CIRCLE) 11.75" (9.75")	PILOT .945"	SPLINES 27	MOUNT 3 Pads
	NOTES Lock Up	APPLICATION CODES 1984-Up Audi, Volvo J8		
	BMW37 DIA. (BOLT CIRCLE) 12" (9")	PILOT 1.335"	SPLINES 27	MOUNT 4 Holes, 10mm x 1.5
	NOTES Lock Up Med. Stall	APPLICATION CODES 1994-04 Range Rover, Discovery 4.0L D19, L19, U27		

ZF

ZF4HP22, ZF4HP24

 <p>BMW42</p>	<p>DIA. (BOLT CIRCLE) 12.375" (8.95")</p> <p>NOTES Lock Up Med. Stall Pilot Stepped 1.337" to 1.650"</p>	<p>PILOT 1.650"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Pads, 10mm x 1.5</p> <p>APPLICATION CODES 1987-Up Range Rover 4.6L B18, M19, T27</p>
 <p>JA5</p>	<p>DIA. (BOLT CIRCLE) 12.625" (9.2")</p> <p>NOTES Lock Up</p>	<p>PILOT 1.257"</p>	<p>SPLINES 27</p>	<p>MOUNT 6 Pads</p> <p>APPLICATION CODES 1988-97 Jaguar XJ6 K7</p>
 <p>BMW25</p>	<p>DIA. (BOLT CIRCLE) 12.75" (10.5")</p> <p>NOTES Lock Up Two Body Seam Welds</p>	<p>PILOT 1.257"</p>	<p>SPLINES 27</p>	<p>MOUNT 3 Pads</p> <p>APPLICATION CODES 1989-92 735i, 95-01 750, 88-94 850i, 80-86 Lincoln E11, O7, 07</p>

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ZF

ZF



ZF5HP18

	VO27 DIA. (BOLT CIRCLE) 10.875" (11.75")	PILOT 1.257"	SPLINES 27	MOUNT 8 Holes
NOTES Lock Up 132T Ring Gear		APPLICATION CODES 1995-Up Porsche 911 K10		
	BMW36 DIA. (BOLT CIRCLE) 10.9" (10.375")	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads
NOTES Lock Up Med. Stall		APPLICATION CODES 1992-7/93 BMW 530i, Used w/ 1056-000-087 Trans. 149-002, A11		
	BMW35 DIA. (BOLT CIRCLE) 10.9" (10.375")	PILOT 1.257"	SPLINES 27	MOUNT 4 Pads, 10mm x 1.5
NOTES Lock Up Med. Stall		APPLICATION CODES 7/93-95 BMW 530i 3.0L, Used w/ 1056-000-088 Trans. E18		
	BMW53 DIA. (BOLT CIRCLE) 10.9" (9.25")	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
NOTES Lock Up Med. Stall		APPLICATION CODES 1997-99 BMW M3 3.0L, 3.2L 149-003, B26, 231-103-4-8-11-96		
	BMW51 DIA. (BOLT CIRCLE) 10.9" (9.25")	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5
NOTES Lock Up Med. Stall		APPLICATION CODES 1995-98 BMW M3 3.0L, 3.2L, 1992-95 BMW 320i 149-003, O21, Y12, 231-103-4-8-11-96		
	BMW52 DIA. (BOLT CIRCLE) 11.125" (8.825")	PILOT 1.325"	SPLINES 27	MOUNT 4 Pads
NOTES Lock Up NO PHOTO AVAILABLE		APPLICATION CODES 1993-96 BMW M3, Used w/ 1056-000-097 Trans. O21		

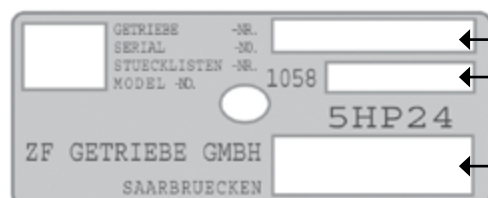
	AU24 DIA. (BOLT CIRCLE) 10.8" (9.25") NOTES Captive Clutch Low Stall Mounting Ring	PILOT .629"	SPLINES 27	MOUNT 3 Nuts, 10mm x 1.0 APPLICATION CODES 12/01-4/02 VW Passat 4.0L (4 Motion), Passat 4.0L 01V 01-02, Used w/ 1060-040-100 Trans. 156-207, A73, B33, Q56
	AU20 DIA. (BOLT CIRCLE) 10.875" (9.25") NOTES Lock Up Slightly High Stall	PILOT .629"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.0 APPLICATION CODES 7/95-7/97 A4 Avant, Sedan 2.8L, 10/95-4/97 A4 Quattro 2.8L, 1996-08 A4 2.8L 156-200, N24, T45, 01V
	AU21 DIA. (BOLT CIRCLE) 10.875" (9.25") NOTES Lock Up Slightly High Stall	PILOT .629"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.0 APPLICATION CODES 198/97-12/98 A8 Sedan 3.7L, Used w/ 1060-030-006 Trans. B27, B35, G31, J28, Some N22
	AU22 DIA. (BOLT CIRCLE) 10.875" (9.25") NOTES Lock Up Slightly Low Stall	PILOT .629"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.0 APPLICATION CODES 10/96-2/97 & 5/00-10/01 A4, A6 Avant, Sedan 2.8L, 8/99-4/02 Quattro, Passat 2.8L 156-202, K36, N19, N28, Some N22
	AU23 DIA. (BOLT CIRCLE) 10.875" (9.25") NOTES Lock Up Slightly Low Stall	PILOT .629"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.0 APPLICATION CODES 3/97-7/99 A4 & A6 Avant, Sedan 2.8L, 8/97-8/00 Quattro, Passat 2.8L 156-203, F31, Q45
	AU25 DIA. (BOLT CIRCLE) NOTES NO PHOTO AVAILABLE	PILOT	SPLINES	MOUNT APPLICATION CODES 9/02-2003 Allroad Quattro, Used w/ 1060-040-093 Trans. B73, P56

ZF

ZF5HP19

	AU26 DIA. (BOLT CIRCLE) 10.875" (9.25")	PILOT .825"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.0
NOTES Lock Up Slightly High Stall	APPLICATION CODES 2004-05 VW Jetta, Passat 2.0L Turbo Diesel 156-200, 23, Q61X, X64			
	AU11 DIA. (BOLT CIRCLE) 10.9" (9.25")	PILOT .629"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.0
NOTES Lock Up Slightly High Stall	APPLICATION CODES 7/96-10/01 A4 Avant, Sedan 1.8L, 8/97-2003 A4 Quattro 1.8L, 7/97-8/00 Passat 1.8L, 2.0L Turbo, 1998, A4 1.8L Turbo 156-201, A33, B31, K28, M28			
	AU13 DIA. (BOLT CIRCLE) 10.9" (9.25")	PILOT .629"	SPLINES 27	MOUNT 3 Nuts, 10mm x 1.0
NOTES Captive Clutch Med. to Low Stall	APPLICATION CODES 9/01-03 A4, A6 Quattro 3.0L, 5/99-02 A6, S4 Quattro 2.7L, A6 2.7L Turbo 2002 156-208, 156-208-08-02, 73, A9, B25, F35, K73, T45, Y61			
	AU13909 DIA. (BOLT CIRCLE) 11" (9.25")	PILOT .629"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.0
NOTES Captive Clutch Med. Stall Replaces AU31	APPLICATION CODES 2001 Audi S8 4.2L V8			
	PCH54 DIA. (BOLT CIRCLE) 10.875" (10.03")	PILOT 1.18"	SPLINES 27	MOUNT 3 Pads, 8mm x 1.25
NOTES Lock Up Slightly High Stall 2 Holes per Pad	APPLICATION CODES 2000-08 Porsche Boxster 2.5L 156-201, A32			
	PCH54A DIA. (BOLT CIRCLE) 10.875" (10.03")	PILOT 1.18"	SPLINES 27	MOUNT 3 Pads, 8mm x 1.25
NOTES Lock Up Slightly High Stall 2 Holes per Pad	APPLICATION CODES 2000-08 Porsche Boxster 2.7L 156-200, H44			

BMW12901 	DIA. (BOLT CIRCLE) 11" (9.25") NOTES Captive Clutch Slightly Low Stall Replaces BMW64 & ZF12901	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 1999-UP BMW 330i, 330Ci, 2001-02 530i, Used w/ 1060-000-010 Trans. 156-203, B61, U38
BMW43 	DIA. (BOLT CIRCLE) 10.875" (9.25") NOTES Lock Up Med. to High Stall	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2000-05 323i 2.5L, Various BMW N33, Some A14
BMW61 	DIA. (BOLT CIRCLE) 10.875" (9.25") NOTES Lock Up Slightly High Stall	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2000-Up BMW 320i, Used w/ 1060-000-008 Trans. T51
BMW62 	DIA. (BOLT CIRCLE) 10.875" (9.25") NOTES Lock Up Slightly High Stall	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.5 APPLICATION CODES 2000-Up BMW 323i, 323Ci, Used w/ 1060-000-005 Trans. 156-208, C51, J28, N33, S38
BMW63 	DIA. (BOLT CIRCLE) 10.875" (9.25") NOTES Lock Up Low Stall	PILOT 1.257"	SPLINES 27	MOUNT 3 Pads, 10 mm 1.5 APPLICATION CODES 2000-Up BMW 325i, 325Ci, 2001-Up 525i, Used w/ 1060-000-009 Trans. 156-209, C51








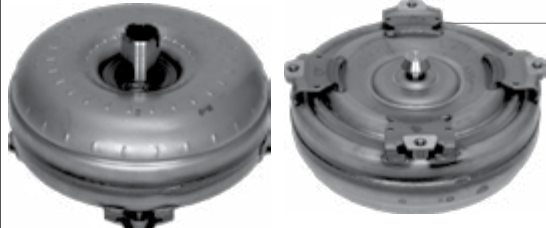
Transmission Serial #

Used With Transmission #

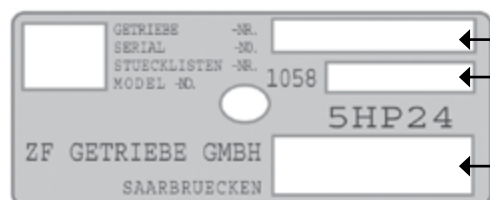
Vehicle Mfg. Transmission #. i.e. BMW, Audi, etc.

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ZF5HP24

	AU13908 DIA. (BOLT CIRCLE) 11" (9.25") NOTES Captive Clutch Med. Stall Replaces AU30	PILOT .629"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.0 APPLICATION CODES 1997-Up A8 4.2L, 4/99-9/02 A6 & A8 Quattro 4.2L, Used w/ 058-020-xxx Except -029 & -030 157-100, G29, P35
	AU13909 DIA. (BOLT CIRCLE) 11" (9.25") NOTES Captive Clutch Med. Stall Replaces AU31	PILOT .629"	SPLINES 27	MOUNT 3 Pads, 10mm x 1.0 APPLICATION CODES 5/00-6/01 S8 A8 Quattro 4.2L, 6/01-03 S6 Quattro 4.2L, Used w/ 1058-020-029, 1058-020-030 Trans. 157-101, Q35
	BMW13900 DIA. (BOLT CIRCLE) 11" (10.44") NOTES Captive Clutch Med. Stall Replaces BMW39 & BMW70	PILOT 1.257"	SPLINES 27	MOUNT 4 Pads, 10mm x 1.5 APPLICATION CODES 1996-01 BMW 740i, Used w/ 1058-000-005, 1058-000-016 Trans. 157-100, D21, F38, F39, L31
	BMW13901 DIA. (BOLT CIRCLE) 10.9" (10.438") NOTES Captive Clutch Med. Stall Replaces BMW75 & ZF13901	PILOT 1.257"	SPLINES 27	MOUNT 4 Pads, 10mm x 1.5 APPLICATION CODES 9/98-Up BMW 540i, 9/98-Up BMW 740i, 740iL, Used w/ 1058-000-021 Trans. 157-100, N35
	BMW13902 DIA. (BOLT CIRCLE) 10.9" (10.438") NOTES Captive Clutch Med. Stall Replaces BMW76 & ZF13902	PILOT 1.257"	SPLINES 27	MOUNT 4 Pads, 10mm x 1.5 APPLICATION CODES 9/98-Up BMW 540i, 9/98-Up BMW 740i, 740iL, Used w/ 1058-000-022 Trans. 157-104, L35
	BMW13903 DIA. (BOLT CIRCLE) 10.9" (10.438") NOTES Captive Clutch Med. Stall Replaces BMW77 & ZF13903	PILOT 1.257"	SPLINES 27	MOUNT 4 Pads, 10mm x 1.5 APPLICATION CODES 1998-Up BMW X5 4.4L, 2003-Up Range Rover 4.4L V8, Used w/ 1058-000-029, 1058-000-032 Trans. 157-102, A85, F38

 <p>BMW13904</p>	<p>DIA. (BOLT CIRCLE) 11.975" (10.438")</p> <p>NOTES Captive Clutch Med. Stall Replaces BMW78 & ZF13904</p>	<p>PILOT 1.257"</p>	<p>SPLINES 27</p>	<p>MOUNT 4 Holes, 10mm 1.5</p> <p>APPLICATION CODES 2001-Up BMW X5 4.6L, Used w/ 1058-000-034 Trans. 182-002, L51</p>
 <p>JA13905</p>	<p>DIA. (BOLT CIRCLE) 10.9" (11.5")</p> <p>NOTES Captive Clutch Med. Stall Replaces JA10 & ZF13905</p>	<p>PILOT 1.375"</p>	<p>SPLINES 27</p>	<p>MOUNT 3 Pads, 10mm x 1.5</p> <p>APPLICATION CODES 1997-98 Jaguar XJ8 3.2L, 1998 Jaguar XJ8 4.0L, XK8 4.0L, Used w/ 1058-000-014, 1058-000-024 Trans. P32</p>
 <p>JA13906</p>	<p>DIA. (BOLT CIRCLE) 11"</p> <p>NOTES Captive Clutch Low Stall Replaces JA11 & ZF13906</p>	<p>PILOT 1.375"</p>	<p>SPLINES 27</p>	<p>MOUNT 3 Pads, 10mm x 1.5</p> <p>APPLICATION CODES 1997-00 Jaguar XJ8, XK8 4.0L, Used w/ 1058-000-009, 1058-000-013, 1058-000-015 Trans. K35, Q20, Q29, Q32</p>
 <p>JA13907</p>	<p>DIA. (BOLT CIRCLE)</p> <p>NOTES Replaces JA12 & ZF13907</p>	<p>PILOT</p>	<p>SPLINES</p>	<p>MOUNT</p> <p>APPLICATION CODES 1999 Jaguar XJ8 4.0L, XK8 4.0L, 1998-02 Jaguar XJ8 3.2L, Used w/ 1058-000-027, 1058-000-028 Trans J35</p>





Transmission Serial #

Used With Transmission #

Vehicle Mfg. Transmission #. i.e. BMW, Audi, etc.

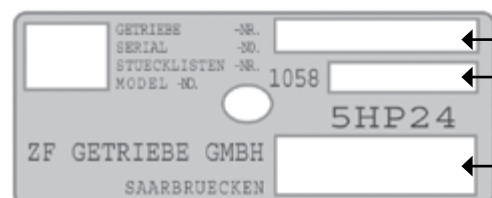
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ZF5HP30

	BMW32 DIA. (BOLT CIRCLE) 12" (10.375") NOTES Lock Up Med. Stall	PILOT 1.257"	SPLINES 27	MOUNT 4 Holes, 10mm 1.5 APPLICATION CODES 1991-03 540i, 740i, 740iL, 840i, 840Ci, Used w/ 1055-000-xxx Trans. Including 010, 011, 026, 029, 030, 031 B13, F21, R13, T26, U23
	BMW80 DIA. (BOLT CIRCLE) 12" (10.375") NOTES Captive Clutch Med. Stall	PILOT 1.257"	SPLINES 27	MOUNT 4 Holes, 10mm x 1.5 APPLICATION CODES 1994-2001 750iL 5.4L, 850Ci, Used w/ 1055-000-xxx Trans. Including 017, 027, 028, 032, 039, 040 144-101, U23

Autrans



Transmissions – Parts & Service



Transmission Serial #

Used With Transmission #

Vehicle Mfg. Transmission #. i.e. BMW, Audi, etc.

 <p>BMW55</p>	<p>DIA. (BOLT CIRCLE) 10.53" (9.25")</p> <p>NOTES Captive Clutch Slightly High Stall</p>	<p>PILOT 1.257"</p>	<p>SPLINES 27</p>	<p>MOUNT 3 Pads, 10mm x 1.5</p> <p>APPLICATION CODES 2000-11 BMW 530i 3.0L 209-302, G72</p> <p>TSB: 185, 186, 187, 188</p>
 <p>AU14</p>	<p>DIA. (BOLT CIRCLE) 10.69" (9.25")</p> <p>NOTES Captive Clutch Slightly Low Stall</p>	<p>PILOT .629"</p>	<p>SPLINES 27</p>	<p>MOUNT 3 Nuts, 10mm x 1.0</p> <p>APPLICATION CODES 2004-12 Audi A6 Awd 000-014, T84</p> <p>TSB: 185, 186, 187, 188</p>



NOTES

Autrans
Transmissions – Parts & Service

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ZF6HP26

	BMW45	DIA. (BOLT CIRCLE)	PILOT	SPLINES	MOUNT 4 Pads
		NOTES Captive Clutch Med. to Low Stall	APPLICATION CODES 2006-10 Range Rover 4.2L 206-700 TSB: 185, 186, 187, 188		
	BMW95	DIA. (BOLT CIRCLE) 11.125" (10.5")	PILOT 1.257"	SPLINES 27	MOUNT 4 Lugs, 10mm x 1.5
		NOTES Captive Clutch Med. Stall	APPLICATION CODES 2002-09 BMW 745i 4.4L 206-507, L62, L65, V73, Z74 TSB: 185, 186, 187, 188		
	BMW95A	DIA. (BOLT CIRCLE) 11.28" (11.44")	PILOT 1.257"	SPLINES 27	MOUNT 4 Holes, 10mm 1.5
		NOTES Captive Clutch Med. to Low Stall	APPLICATION CODES 2002-09 BMW 750Li 4.8L 000-010, 000-193, G85, J85 TSB: 185, 186, 187, 188		
	AU14	DIA. (BOLT CIRCLE) 10.69" (9.25")	PILOT .629"	SPLINES 27	MOUNT 3 Nuts, 10mm x 1.0
		NOTES Captive Clutch Slightly Low Stall	APPLICATION CODES 2004-11 Audi A6 Awd 4.2L 000-014, T84 TSB: 185, 186, 187, 188		

	JA95 DIA. (BOLT CIRCLE) 11.125" (8.875") NOTES Captive Clutch Med. Stall	PILOT 1.375"	SPLINES 27	MOUNT 4 Nuts, 10mm x 1.5 APPLICATION CODES 2002-07 Jaguar S Type 3.0L 206-205, F65, P62 TSB: 185, 186, 187, 188
	JA95A DIA. (BOLT CIRCLE) 11.9" (11.5") NOTES Captive Clutch Low Stall	PILOT 1.375"	SPLINES 27	MOUNT 3 Nuts, 10mm x 1.5 APPLICATION CODES 2003-08 Jaguar XK 4.2L 206-700, J65 TSB: 185, 186, 187, 188

NOTES

Autrans
Transmissions – Parts & Service

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
1	Converter Drainback	Install Pressure Regulator Valve Kit (Oversized)	22741PAK
2	TCC Apply Problems	Replace Turbine Shaft O-Ring 5F9Z-7H497-EA	33002LA, 33004LA 33006LA
3	No Lock Up	Replace Front Stator Support Bushing	34036B 34036S
4	Converter Overheat, Delayed Reverse	Install New Wide Stator Bushing	44036B
5	Converter Overheat, No TCC When Hot	Replace TCC Solenoid	54425B
6	High Converter Apply Pressure, TCC Slip Code, Converter Hub & Stator Damage	Replace TCC Regulator Valve Spring	75741Q-3
7	Converter Apply & Release Problems, Converter Codes	Replace TC Lock Up Clutch Regulator Valve Assembly	78741HRK
8	Converter Overheat, Poor Cooler Flow	Install TransLab Valve Body Upgrade Kit	87165A
9	Lock Up Shudder, Soft TCC Apply	Replace Lock Up Valve Spring	A12741C-3
10	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Valve Body Kit	A36165E
11	Converter Clutch Failure	Install TransLab Valve Body Upgrade Kit	A38165A
12	TCC Slip/Cycling, Code 1870	Install Valve Body Kit To Convert From EC3 To On/Off TC Clutch Engagement	A74165EA
13	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve (PWM Only)	A74507CEK
14	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (245mm or 298mm Converter, Non-Reluctor Type, 93-04)	A74529B S74529B
15	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Non-Reluctor Type, 99-04)	A74529C S74529C
16	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (298mm Converter, Reluctor Type, 04-Up)	A74529D S74529H
17	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Reluctor Type, 04-Up)	A74529E S74529L
18	TCC Slip/Cycling, Code 1870	Install TCC Valve To Convert From EC3 To On/Off TC Clutch Engagement (00-03)	A74741QC
19	Delayed Engagement, Converter Overheat, Converter Slip Codes	Install Valve Body Kit	A86165E
20	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Valve Body Kit	A86165H
21	Lock Up Chatter, Lock Up Slippage, No Lock Up	Replace Lock Up Control Solenoid	A89428
22	Lock Up Shudder During Lock Up Apply	Use Medium Stall Converter Instead Of Low Stall Converter	CR2
23	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Valve	D92540
24	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Valve (Splice Into Cooler Line)	D92540A
25	Converter Slippage (Allison)	Replace "F" Trim Valve Sleeve (Pre-2004)	S121741C-2

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
26	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Sure Cure Kit	S12174
27	Incorrect TCC Apply & Release, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Control Valve (Single Valve Pumps)	S134741C
28	Incorrect TCC Apply & Release, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Control & Enable Valves (Dual Valve Pumps)	S134741CA
29	Converter Overheat, Delayed/No Reverse	Replace TCC Regulator & Valve Assembly	S134741QK
30	Converter Overheat, TCC Valve Apply & Release Problems	Replace TCC Control Sleeve (Pre 2003)	S14741C-2
31	No TCC Apply, Soft/Slipping Apply	Replace TCC Regulated Apply Sleeve	S14741Q-2
32	Lock Up Shudder, Converter Overheat	Install Shift Correction Package	S22165
33	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Package	S22167
34	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Package	S22167A
35	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Correction Kit (48RE Only)	S22167C
36	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Sure Cure Kit	S22174
37	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply	Replace 4 Spool Switch Valve	S22741A-1
38	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply	Replace 4 Spool Switch Valve (Oversized)	S22741AA-1
39	Converter Overheat, TCC Apply & Release Problems, Converter Codes	Install Zip Kit	S27741BZK
40	Lock Up Chatter	Install Shift Correction Package	S24165E
41	TCC Slip Related Problems	Replace TCC Regulator Valve Sleeve (00-Up PWM Only)	S24741C-2
42	Converter Overheat, TCC Apply & Release Problems, Converter Codes	Replace Lock Up Control Plunger Valve & Sleeve Assembly	S27741C
43	Converter Overheat, TCC Apply & Release Problems, Harsh Lock Up	Replace Secondary Pressure Regulator Valve Assembly (Oversized)	S27741PAK
44	Converter Overheat, TCC Apply & Release Problems, Harsh Lock Up	Install Zip Kit	S27741ZK
45	High Engine RPM Due To No Lock Up	Replace Lock Up Control Sleeve & Plunger Assembly	S33741GCK
46	Engine Stall On Engagement, Loss Of Lock Up, Increased RPM On Acceleration	Replace TCC Limit & Lube Valve Assembly	S33741GQK
47	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Sure Cure Kit	S34174
48	Lock Up Shudder, Converter Overheat, Converter Apply & Release Problems	Replace TCC Regulator Valve & Sleeve Assembly	S34741C-2K

DNA

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
49	Lock Up Shudder, Converter Overheat, Converter Apply & Release Problems	Replace TCC Regulator Valve	S34741CK
50	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Correction Package	S36165E
51	Soft Shifts, Poor Line Rise, Delayed Reverse	Install Sure Cure Kit (E40D)	S36174
52	Lock Up Shudder, Converter Overheat, Engine Stumble/ Stall On Reverse Engagement, TCC Cycling	Install Sure Cure Kit	S36174A
53	Lock Up Shudder, TCC Cycling	Replace TCC Control Valve Assembly (PWM 4R100 Apps Only)	S36507CK
54	Converter Overheat, Engine Stumble/Stall On Reverse Engagement	Replace Line To Lube Pressure Regulator Valve	S36507P-1
55	Converter Overheat, TCC Slippage, Soft Apply	Replace Cooler Bypass Valve	S36996A-5K
56	Converter Remains Applied Causing Harsh Downshifts, TCC Apply & Release Problems	Replace Lock Up Clutch Control Valve Assembly	S39741C-1K
57	Excess TCC Slip, Harsh TCC Apply, Converter Overheat	Install Shift Correction Package	S46165
58	TCC Cycling, Burned Converter, Engine Stall, No TCC Release	Replace TCC Control Spring	S46741-3B
59	Harsh TCC Apply, TCC Slip On Apply	Replace TCC Modulator Spring	S46741-3C
60	Harsh TCC Apply, Low Line Pressure, Excess TCC Slip, Converter Lining Overheat	Replace TCC Back Pressure Spring	S46741-3D
61	High TCC Slip RPM At Increasing Load	Replace TCC Modulator Sleeve / Plunger (OEM Ratio)	S46741C
62	High TCC Slip RPM At Increasing Load	Replace TCC Modulator Sleeve / Plunger (Increased Ratio)	S46741CA
63	Excess TCC Slip	Replace TCC Modulator Valve / Sleeve	S46741CB
64	Excess TCC Slip, TCC Lining Comes Off, Converter Overheat	Replace TCC Control Valve (Oversized)	S46741CCK
65	Lock Up Shudder On Coast Down, Engine Chug, Lock Up Problems	Install Valve Body Kit	S56165E
66	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Shift Correction Package	S56165H
67	No TCC Apply, Poor Converter Fill, Delayed Engagements	Replace TCC Modulator/Sleeve	S56741C-2K
68	Lock Up Shudder On Coast Down, Engine Chug	Replace Anti-Shudder Spring	S56741C-3
69	Low TCC Apply Pressure	Replace TCC Regulator Valve Spring	S56741CA-3K
70	Converter Apply Problems	Replace TCC Regulator Valve	S56741Q-1
71	Converter Apply Problems, High TCC Slip	Replace TCC Regulator/Sleeve	S56741Q-2K
72	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Zip Kit	S56741ZK
73	Converter Remains Applied Causing Harsh Downshifts, TCC Apply & Release Problems	Replace Lock Up Clutch Control Valve Assembly	S59741C-1

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
74	Converter Overheat, Delayed Engagement, Higher Stall Speed, Poor Performance	Replace Regulator Assembly	S63741C-2K
75	Lock Up Shudder, Converter Overheat, TCC Cycling	Replace TCC Control Sleeve	S63741H-2K
76	Harsh Lock Up	Replace TCC Damper Valve & Sleeve Assembly	S68942-23K
77	Harsh TCC Engagement	Replace TCC Accumulator Valve Spring	S72741E-3
78	Converter Overheat, Low TCC Release Pressure	Replace TCC Limit Valve & Sleeve	S72741L-1
79	OEM Spring Breaks, Delayed Engagement, Engine Stall On Engagement	Replace TCC Limit Spring	S72741L-3
80	Converter Overheat, Code 1870	Install Shift Correction Package (1993-97)	S74165E
81	TCC Slip/Cycling, 3-4 Clutch Failure, Falls Out Of Lock Up When Hot, No Lock Up, Converter Overheat	Install Shift Correction Package (1998-Up)	S74165EA
82	TCC Slip/Cycling, 3-4 Clutch Failure, Falls Out Of Lock Up When Hot, No Lock Up, Converter Overheat	Install Sure Cure Kit	S74174A
83	Converter Overheat, No TCC When Hot	Replace TCC Solenoid Snout (Up To 1996)	S74425N-2
84	Converter Overheat, No TCC When Hot	Replace TCC Solenoid Snout (1997-Up W/ Anti-Drainback Valve)	S74425S-2
85	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly (Non-PWM Only)	S74507C-1
86	Converter Overheat, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly (PWM Only)	S74507CE-1
87	Converter Overheat, Delayed Reverse	Replace Stator Support Shaft (280mm or 300mm Converter, Reluctor Type, 04-Up)	S74529L
88	TCC Slip/Cycling, 3-4 Clutch Failure	Replace Isolator Valve Sleeve	S74741Q-2
89	Converter Overheat, TCC Slip	Replace Regulator Valve Assembly (All Years & EC3 Units)	S74741QAK
90	Converter Overheat, TCC Slip	Replace Regulator Valve Assembly (Up To 1997 Non-EC3 Units)	S74741QK
91	Delayed Engagements, Erratic Pressure	Install Sure Cure Kit (096, 097, 098)	S75174
92	No Lock Up, Falls Out Of Lock Up When Hot, Engine Stalls/Shudders On Engagement	Install Sure Cure Kit (01M, 01N, 01P)	S75174A
93	No Lock Up, Falls Out Of Lock Up When Hot, Engine Stalls/Shudders On Engagement	Replace TCC Regulator Valve Assembly (Oversized)	S75741CAK
94	Converter Overheat, Engine Stalls During Stop/Neutral Drive Engagement	Replace TCC Boost Valve Assembly	S75741CK
95	Lock Up Shudder	Install Shift Correction Package	S76165E
96	Delayed/No Lock Up, Uncontrollable TCC, Shudder, TCC Apply & Release Problems, Cross Leak Of Converter Release Oil, Loss Of Lock Up	Install Valve Body Kit	S76169E
97	Lock Up Shudder, Uncontrollable TCC, Delayed/No Lock Up, Codes 628, 741, 1741	Install Sure Cure Kit (Up To 1995)	S76174
98	Lock Up Shudder, Uncontrollable TCC, Delayed/No Lock Up, Codes 628, 741, 1741	Install Sure Cure Kit (1996-Up)	S76174A
99	TCC Apply & Release Problems, Cross Leak Of Converter Release Oil	Replace Stator Support Sleeve	S76507S
100	Delayed/No Lock Up, Lock Up Shudder, Uncontrollable TCC	Replace Bypass Control Sleeve/Plunger	S76741AK

DNA

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
101	TCC Slip, Loss Of Lock Up	Replace Bypass Clutch Control Valve (Oversized)	S76741H-1K
102	Converter Overheating	Replace Lubricating Pressure Control Valve Assembly	S78741P-1K
103	Converter Apply & Release Problems, Converter Codes	Replace TC Lock Up Clutch Regulator Valve Assembly	S78741QK
104	Converter Apply & Release Problems, Excess Slip RPM, TCC Cycling, High TCC Release Pressure	Replace TCC Control Valve & Sleeve Assembly	S82741C-1K
105	Lock Up Shudder	Install Shift Correction Package	S84165
106	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Shift Correction Package	S84165G
107	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870, Reduced Cooler Flow	Install Sure Cure Kit	S84174
108	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870, Reduced Cooler Flow	Install Sure Cure Kit	S84174A
109	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Sure Cure Kit	S84174G
110	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace TCC Regulator & Isolator Valve Assembly (1991-92)	S84741CAK
111	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve (Oversized)	S84741CC-1
112	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve	S84741CD-1
113	Lock Up Shudder, No Lock Up, Falls Out Of Lock Up When Hot	Replace TCC Apply Valve Assembly	S84741CE-1
114	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace TCC Regulator & Isolator Valve Assembly (1993-99)	S84741CK
115	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace Isolator Valve Sleeve (1993-99)	S84741Q-1
116	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot	Replace Isolator Valve Sleeve (1993-99)	S84741QK
117	Repeat Converter Failure, TCC Slippage	Replace TCC Relief Valve	S84755A-1
118	Delayed Engagement, Converter Slip Codes, Converter Overheat	Install Shift Correction Kit	S86165E
119	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Sure Cure Kit	S86174
120	TCC Apply & Release Control Problems, Converter Overheat, Converter Slip Codes, TCC Cycling/Surging	Install Sure Cure Kit	S86174H
121	No/Soft TCC Apply, TCC Slip	Replace TCC Control Valve & Sleeve	S86741B-2
122	TCC Apply & Release Problems, Hydraulic Related Converter Codes	Replace Bypass Clutch Control Valve (Oversized)	S86741BK
123	TCC Apply & Release Control Problems	Replace Bypass Clutch Control Valve (Oversized)	S86741HBBK
124	No TCC Apply, TCC Cycle/Surge	Replace Bypass Control Sleeve/Plunger (0.486" Dia Spool)	S86741HBK
125	No TCC Apply, TCC Cycle/Surge	Replace Bypass Control Sleeve/Plunger (0.496" Dia Spool)	S86741HCK

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
126	No TCC Apply	Replace Solenoid Regulator Valve (Oversized)	S86741LK
127	Delayed Engagement, Converter Slip Codes, Converter Overheat	Replace Converter Regulator Valve (Oversized)	S86741QK
128	TCC Apply & Release Problems, Converter Codes	Replace Lock Up Relay Control Valve & Sleeve Assembly	S89741C
129	Converter Overheat, TCC Apply & Release Problems, Converter Codes	Replace Lock Up Control Valve & Sleeve Assembly	S89741CA
130	No TCC Apply, Shift Problems, Harsh Shifts In All Ranges, Engine Stalls On Engagement	Replace Solenoid Relay Valve & Sleeve Assembly	S89741Q
131	Lock Up Shudder & Failure, TCC Deflection & Lining Failure, Cooler Restriction Caused By Lining Material, Transmission or Converter Overheat	Install Sure Cure Kit	S92174
132	Erratic/No TCC, 2nd Gear Starts, Low/Reverse Switch Code, Worn Switch Valve Bore	Replace Solenoid Switch Valve Plug (Oversized)	S92741-2AK
133	Erratic/No TCC, 2nd Gear Starts, Low/Reverse Switch Code	Replace Solenoid Switch Valve Plug	S92741-2K
134	No TCC Apply, Wrong Gear Starts	Replace Solenoid Switch Valve Plug (Oversized)	S92741H-1
135	Lock Up Shudder & Failure, TCC Deflection & Lining Failure, Cooler Restriction Caused By Lining Material, Transmission/Converter Overheating	Replace Converter Regulator Valve Assembly	S92741PK
136	Lock Up Shudder, Low Cooler Flow, Erratic Switch Codes, Long Soft 1-2	Replace Bypass Plug (1994-97 w/ Internal Bypass Valve)	S92761B-6
137	Converter Apply & Release Problems	Replace TCC Regulator Valve Assembly	S94741QK
138	TCC Slippage, No Lock Up, Low Converter Charge	Install Shift Correction Package	S96167
139	TCC Slippage, No Lock Up, Low Converter Charge	Replace Bypass Clutch Control Assembly	S96741BK
140	TCC Slippage, No Lock Up, Low Converter Charge	Replace Master Clutch Control & Pressure Regulator Valve Assemblies	S96741K
141	Converter Slippage, Weak Lock Up Apply (Allison)	Install Shift Kit® (5 Speed, 2001-05)	T121165
142	Converter Slippage, Weak Lock Up Apply (Allison)	Install Shift Kit® (6 Speed, 2006-Up)	T121167
143	Converter Slippage, Lock Up Shudder	Install Shift Kit®	T15165
144	Lock Up Shudder, Converter Overheat, Converter Drainback, Engine Stall In Reverse	Install Shift Kit®	T22165
145	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Kit® (Gas & Diesel)	T22165B
146	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Shift Kit®	T22167
147	Lock Up Shudder, Converter Overheat, Build-Up Of Pressure Release During Lock Up, Soft TCC Apply, Converter Bushing Failure	Install Reprogramming Kit™	T22169B

DNA

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
148	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Kit®	T34165E
149	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Reprogramming Kit™ (HD Applications)	T34169E
150	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Shift Kit®	T36165E
151	Lock Up Shudder, Converter Overheat, TCC Apply & Release Problems, TCC Slip Codes	Install Reprogramming Kit™ (HD Applications)	T36169EA
152	Converter Clutch Failure	Install Shift Kit®	T38165A
153	TCC Slippage, Lock Up Shudder	Install Shift Kit®	T39165
154	Excess TCC Slip, Harsh TCC Apply, Converter Overheat	Install Shift Kit®	T46165
155	Converter Apply Problems, High TCC Slip, Low TCC Apply Pressure, Uncontrollable TCC, Poor Converter Fill, Delayed Engagements, Delayed/No Lock Up, Shudder, Loss Of Lock Up	Install Shift Kit®	T56165H
156	Lock Up Shudder On Coast Down, Engine Chug, Lock Up Problems	Install Shift Kit®	T56167E
157	TCC Slippage, Lock Up Shudder	Install Shift Kit®	T59165
158	Lock Up Shudder, Converter Overheat	Install Reprogramming Kit™	T63169
159	Harsh TCC Engagement, 2-3 Neutral, Drainback	Install Shift Kit®	T72165
160	Harsh TCC Engagement, 2-3 Neutral, Drainback	Install Reprogramming Kit™	T72169
161	TCC Slip/Cycling, 3-4 Clutch Failure, No Lock Up, Falls Out Of Lock Up When Hot, Converter Overheat	Install Shift Kit® (1993-08)	T74165E
162	Hard Lock Up, Engine Stall, Lock Up Slip or Shudder	Install Shift Kit® (01M 1995-04)	T75165
163	Delayed/No Lock Up, Uncontrollable TCC, Shudder, TCC Apply & Release Problems, Cross Leak Of Converter Release Oil, Loss Of Lock Up	Install Shift Kit®	T76165E
164	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, No Lock Up, Converter Codes	Install Shift Kit®	T84167E
165	Lock Up Shudder, Converter Overheat, Falls Out Of Lock Up When Hot, Codes 39, 740, 1870	Install Shift Kit®	T84167G
166	Delayed Engagement, Converter Slip Codes, Converter Overheat	Install Shift Kit®	T86165E
167	Hard Shift, Neutral At Stop	Install Shift Kit®	T86165H
168	Converter Slippage, Delayed Engagement, Hard Engagement	Install Shift Kit®	T89165C
169	Lock Up Shudder	Use Alignment Tool To Properly Align Converter To Adapter Plate	T-0519A T-0519AAC
170	Converter Overheat, Code P0740	Install Pressure Regulator Valve	S80741P-1

DRIVELINE NEEDS ASSESSMENT (DNA)

TSB#	Symptom	Solution	Part #
171	TCC Codes, Poor Cooler Flow	Install TCC Check Valve Kit	S80741C-1
172	Converter Drainback	Install Pressure Regulator Valve Kit	S22741P
173	TCC Apply & Release Control Problems, Code 628	Install Bypass Clutch Control Sleeve & Plunger	S86741A-2
174	Converter Overheat	Install End Plug Kit	S56741-6K
175	High TCC Slip RPM At Increasing Load, Slip Codes	Install TCC Modulator Sleeve & Plunger Valve Kit	S46741-3DA
176	Excess TCC Slip RPM, Code 741, TCC Cycling, TCC Slippage, Code 1783	Install TCC Control Sleeve Assembly	S16507C
177	Erratic TCC, No TCC, Low/Reverse Switch Code	Install Solenoid Switch Valve Plug Kit (Oversized)	S92741H
178	RPM Surging On Coast/Light Acceleration, Converter Apply & Release Problems, Harsh Downshifts, Slip Codes, Overheated Fluid	Install Lock Up Control Valve & Boost Kit (Oversized)	S89741C-1K
179	Converter Codes, Damaged TCC Lining, Loss Of Power	Install Pressure Regulator Valve Kit	S98741QCK
180	Excess TCC Slip, Converter Overheat, Converter Codes	Install TCC Control Plunger Valve Assembly	S98741Q
181	Engine Stall On Engagement, Loss Of Lock Up, Lock Up Shuttling, Premature Lock Up, TCC Problems, Converter Overheat	Install TCC Control Valve & Plunger Assembly	S98741QK
182	Converter Apply & Release Problems, Converter Slip Codes, RPM Surge On Coast, Overheated Fluid	Install Lock Up Control Plunger Valve & Sleeve Kit (Oversized)	S147741C-2A
183	Converter Apply & Release Problems, Converter Slip Codes, RPM Surge On Coast, Overheated Fluid	Install Lock Up Control Plunger Valve & Sleeve Kit	S147741C-2
184	Converter Overheat, Converter Apply & Release Problems, Converter Codes	Install Lock Up Relay Valve Kit (Oversized)	S147741C-1
185	Excessive TCC Slip RPM, TCC Codes, Converter Apply & Release Problems, Converter Overheat	Install Converter Release Regulator Valve Kit	S95741C-1K
186	Converter Overheat, Low Converter Pressure, Lube Failure	Install Lubrication Control Valve Kit (Oversized)	S95741H-1
187	Converter Overheat, Low TCC Release Pressure, Excessive TCC Slip RPM, Excessive TCC Cycling RPM, TCC Related Codes	Install Bypass Clutch Control Valve Kit (Oversized)	S95741D-1K
188	Shift Flares, Delayed/Harsh Engagements, Excessive Heat	Install Zip Kit	S95741ZK
189	Converter Overheat, TCC Codes, Poor Cooler Flow	Install TC Check Valve Kit	S80741C-1A

DNA

DNA GLOSSARY OF TERMS

Term	Definition
2-3 Neutral	Unit engages first and second gear, but loses apply in third gear
Burnt Converter	Converter overheats due to lack of oil flow or TCC slippage
Converter Clutch Failure	TCC lining erodes or burns away
Converter Drainback	Converter loses its charge oil when engine is off resulting in no initial movement
Converter Lining Overheat	Burnt converter lining due to excessive slippage
Converter Overheat	See Burnt Converter
Converter Shudder	Rapid vibration or shaking during TCC apply
Converter Slippage	TCC does not lock up as needed, but no shudder is present
Cross leak of converter release oil	Various symptoms
Delayed Engagement	"Morning Sickness" (delayed neutral / drive - reverse)
Delayed Reverse	See Delayed Engagement
Engine Chug	Engine bucks / jerks in lockup due to low lockup speed or poor engine performance
Engine Stall	Engine stops in gear due to TCC apply at standstill
Engine Stumble	See Engine Chug
Engine Stumble	See Engine Chug
Excess TCC Slip	See Converter Slippage
Hard Shift	Overly aggressive test driving or upshifts
Harsh Lockup	Aggressive TCC Apply
Harsh TCC Apply	See Harsh Lockup
High Apply Pressure	See Harsh Lockup
Incorrect TCC Apply & Release	Problems with lockup timing (low or high) or quality (hard or soft)
Lockup Chatter	See Converter Shudder
Lockup Shudder	See Converter Shudder
Lockup Shuttling	TCC hunting condition (on-off-on-off)
Low Converter Charge	Converter does not fill correctly
Low Line Pressure	Insufficient pump pressure
Neutral at stop	Converter loses engagement
No Reverse	See Delayed Engagement
Poor Converter Fill	See Low Converter Charge
Poor Line Rise	See Low Line Pressure
Shift Flares	Poor quality upshifts
Soft Shift	See Shift Flares
Soft TCC Apply	See Converter Slippage
TCC Apply/Release Problems	See Incorrect TCC Apply and Release
TCC Deflection	See Converter Slippage
TCC Slip/Cycling	Soft or slipping apply, or hunting
TCC Surge	See Harsh Lockup
TCC Valve Apply & Release	Sticking valve or improper calibration
Uncontrollable TCC	Lacks ECM control or pedal control
Weak Lockup Apply	See Converter Slippage
Wrong Gear Start	Fails to start off in first gear

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ACURA					
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2.3 CL	2.3L	1998-99	B6VA	HO66	142
2.3 CL	2.3L	1998-99	B6VA	HO78	142
2.5 TL	2.5L	1995-98	M1WA	HO71	140
3.0 CL	3.0L	1997-99	M7ZA	HO79	144
3.0 CL	3.2L	2001-03	MGFA	HO80	144
3.2 CL	3.2L	2001-03	BGFA	HO80	144
3.2 TL	3.2L	1999	B7VA	HO80	144
3.2 TL	3.2L	1995-98	M5HA, MPYA	HO68	140
3.2 TL	3.2L	1995-98	M5HA, MPYA	HO69	142
3.2 TL	3.2L	2000-06	B7WA	HO80	144
3.2 TL	3.2L	2000-06	M7WA	HO80	144
3.2 TL	3.2L	2004-06	BDGA	HO80	144
3.5 RL	3.5L	1996-04	M5DA	HO68	140
3.5 RL	3.5L	2005-11	MJBA	HO82	145
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Legend	2.7L	1987-90	L5, PL5X	HO62	143
Legend	3.2L	1991-95	M5DA, MPYA	HO68	140
MDX	3.5L	2001-02	BGHA, MGHA	HO80	144
MDX	3.5L	2003-06	MDKA, BDKA	HO82	47
NSX	3.0L	1991-02	MR9A, NPR9	HO74	144
RDX	2.3L	2007-11	BWEA	HO3001	145
RSX	2.0L	2002-06	MRMA	HO81	144
SLX	3.2L	1996	4L30E	GM24	20
SLX	3.2L	1996-97	180C, 4L30E	GM85	10, 20
SLX	3.5L	1998-99	4L30E	GM24	20
SLX	3.5L	1998-99	180C, 4L30E	GM85	10, 20
TSX	2.4L	2004-08	MCTA	HO81	144
Vigor	2.5L	1992-94	MPWA	HO71	140
AUDI					
100, 200	2.2L	1989-90	010, 087, 089, 090	AU2	239
100, 200	2.2L	1991	010, 087, 089, 090	VW14	239
100, 200	2.2L	1991	010, 087, 089, 090	VW13	239
100, 200	2.2L	1991	010, 087, 089, 090	VW15	239
100, 100 Quattro	2.3L	1989-91	010, 087, 089, 090	AU2	239
100, 100 Quattro	2.3L	1989-91	010, 087, 089, 090	VW14	239
100, 100 Quattro	2.3L	1989-91	010, 087, 089, 090	VW13	239
100, 100 Quattro	2.8L	1992-94	ZF4HP18	AU3	241
4000	1.8L	1984-87	010, 087, 089, 090	VW14	239
4000	1.8L	1984-87	010, 087, 089, 090	VW13	239
5000	2.2L	1978-88	VW 010	VW13	239
5000	2.3L	1968-88	010, 087, 089, 090	VW13	239
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5000S	2.2L	1985-90	010, 087, 089, 090	VW15	239
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80	2.0L	1988-90	010, 087, 089, 090	AU2	239
80	2.3L	1991-92	010, 087, 089, 090	AU2	239
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90	2.0L	1988-90	010, 087, 089, 090	AU2	239
90	2.3L	1991	010, 087, 089, 090	AU2	239
90	2.3L	1991	097	VW17	238
90	2.8L	1993	097	VW17	238
90	2.3L	1988-90	010, 087, 089, 090	AU2	239
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A4, A4 Quattro	1.8L	2000-02	ZF5HP19FL	AU13	250
A4, A4 Quattro	2.8L	1996-02	ZF5HP19FL	AU23	249
A4, A4 Quattro	2.8L	1996-98	ZF5HP19FLA	AU20	249
A4, A4 Quattro	2.8L	1996-02	ZF5HP19FL	AU22	249
A4, A4 Quattro	2.8L	1996-05	ZF5HP19	AU11	250
A4, A4 Quattro	2.8L	1996-98	ZF5HP19FL	BMW62	251
A4, A4 Quattro	3.0L	2002-Up	ZF5HP19FL	AU13	250
A4, A4 Quattro	3.0L	2002-Up	ZF5HP19FL	AU11	250
A6, A6 Quattro	2.7L	1998-Up	ZF5HP19FLA	AU11, AU13	250
A6, A6 Quattro	2.8L	1996-02	ZF5HP19FLA	AU23	249
A6, A6 Quattro	2.8L	1998-01	ZF5HP19FL	AU22	249
A6, A6 Quattro	2.8L	1995-97	ZF4HP18	AU3	241
A6, A6 Quattro	2.8L	2000-01	ZF5HP19FL	AU11	250
A6, A6 Quattro	3.0L	2001-03	ZF5HP19FL	AU13	250
A6, A6 Quattro	3.0L	2004-12	ZF6HP19A	AU14	255
A6, A6 Quattro	4.2L	1997-99	ZF5HP24	AU13908	252
A6, A6 Quattro	4.2L	2004-12	ZF6HP26	AU14	256
A6, A6 Quattro	2.7L	2000-05	ZF5HP19FLA	AU13	250
A6, A6 Quattro	2.7L	2000-05	ZF5HP19FLA	AU11	250
A8 Sedan	3.7L	1997	ZF5HP19	AU21	249
A8, A8 Quattro	4.2L	1997-99	ZF5HP24	AU13908	252
A8, A8 Quattro	4.2L	2000-02	ZF5HP24	AU13909	252
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All Road Quattro	2.7L	2001-04	ZF5HP19	AU13	250
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V8 Quattro	3.6L	1990-91	ZF4HP22	VO26	234
V8 Quattro	4.2L	1992-94	ZF4HP22	VO26	234
BMW					
318i	1.8L	1984-87	ZF4HP22/24	BMW12	244
318i	1.8L	1991-99	4L30E	BMW29	20
318i	1.9L	1996-99	4L30E	BMW29	20
318i	4 Spd	1984-87	ZF4HP22/24	BMW12	244
320i (incl. E46)	2.2L	2001-05	ZF5HP19	BMW61	251
323Ci	2.5L	2000	5L40E	BMW41	39
323i	1.8L	2005	5L40E	BMW38	39
323i	2.5L	1998-99	4L30E	BMW29	20
323i	2.5L	1999-00	5L40E	BMW41	39
323i	2.5L	2000-05	ZF5HP18	BMW43	251
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325	2.7L	1987-88	ZF4HP22	BMW11	245
325Ci	2.5L	2003	5L40E	BMW29	20
325Ci	2.5L	2000-03	ZF5HP19	BMW63	251
325E	4 Spd	1984-91	ZF4HP22	BMW11	245
325E	4 Spd	1984-91	ZF4HP22	BMW34	244
325i	2.5L	2001	5L40E	BMW41	39
325i	2.5L	1984-87	ZF4HP22/24	BMW12	244
325i	2.5L	1987-99	ZF4HP22	BMW17	245
325i	2.5L	1988-91	ZF4HP22	BMW11	245
325i	2.5L	1992-95	4L30E	BMW29	20
325i	2.5L	2000-03	ZF5HP19	BMW63	251

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325iC	2.5L	1992-95	4L30E	BMW29	20
325iS	2.5L	1988-91	ZF4HP22	BMW11	245
325iS	2.5L	1992-95	4L30E	BMW29	20
328Ci	2.8L	2000	5L40E	BMW38LS	39
328i	2.8L	1997	4L30E	BMW29	20
328i	2.8L	1996-99	4L30E	BMW29	20
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328iS	2.8L	1997	4L30E	BMW29	20
330Ci	3.0L	1999-03	ZF5HP19	BMW12901	251
330i	3.0L	2002	ZF5HP19	BMW12901	251
330i	3.0L	1999-03	ZF5HP19	BMW12901	251
330i	3.0L	2001-02	ZF5HP19	BMW12901	251
505	2.2L	1989	ZF4HP22	BMW19	244
525	2.5L	2001	ZF5HP19	BMW63	251
525i	2.5L	1989-90	ZF4HP22	BMW11	245
525i	2.5L	1991-93	4L30E	BMW29	20
525i	2.5L	1994-95	4L30E	BMW29	20
528E	2.7L	1984-88	ZF4HP22	BMW11	245
528i	2.8L	1997	4L30E	BMW29LS	20
528i	2.8L	1997-99	4L30E	BMW29	20
528i	2.8L	1999-00	5L40E	BMW38	39
528iT	2.8L	1999	4L30E	BMW29	20
528iT	2.8L	1999	5L40E	BMW38	39
530i	3.0L	1992-93	ZF5HP18	BMW36	248
530i	3.0L	1993-95	ZF4HP22	BMW36	248
530i	3.0L	1993-95	ZF5HP18	BMW35	248
530i	3.0L	2001-03	ZF5HP19	BMW12901	251
530i	3.0L	2000-11	ZF6HP19	BMW55	255
533	3.2L	1984-94	ZF4HP22	BMW34	244
535i	3.5L	1993	ZF4HP24	BMW25	247
535i	3.5L	1985-92	ZF4HP22	BMW11	245
535i	3.5L	1987-Up	ZF3HP22	JA3	246
535i	3.5L	1989-91	ZF4HP22	BMW17	245
535iS	3.5L	1988	ZF4HP22	BMW11	245
535iS	3.5L	1987-99	ZF3HP22	BMW17	245
540i	4.0L	1992-97	ZF5HP30	BMW32	254
540i	4.4L	1977-03	ZF5HP24	BMW13900	252
635CSi	3.5L	1985-89	ZF4HP22	BMW11	245
735i	3.5L	1985-92	ZF4HP22	BMW11	245
740i	4.0L	1992-95	ZF5HP30	BMW32	254
740i	4.4L	1992-95	ZF5HP30	BMW32	254
740i	4.4L	1997-98	ZF5HP24	BMW13900	252
740iL	4.0L	1993-95	ZF5HP30	BMW32	254
740iL	4.4L	1997-01	ZF5HP24	BMW13900	252
745i	4.4L	2002-09	ZF6HP26	BMW95	256
745iL	4.4L	1984-86	ZF3HP22	BMW21	246
750Li	4.8L	2002-09	ZF6HP26	BMW95A	256
750iL	5.0L	1988-94	ZF4HP24	BMW25	247
750iL	5.4L	1995-99	ZF5HP30	BMW32	254
750iL	5.4L	2000	ZF5HP30	BMW80	254
840Ci	4.0L	1994-95	ZF5HP30	BMW32	254
850	5.0L	1994	ZF5HP30	BMW32	254
850	5.0L	1987-99	ZF3HP22	BMW17	245
850	5.4L	1995	ZF5HP30	BMW32	254

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Model	Engine	Year	Transmission	Part #	Page #
BMW (Cont.)					
850	5.6L	1994-95	ZF5HP30	BMW32	254
850i	5.0L	1991-93	ZF4HP24	BMW25	247
L7	3.5L	1986-87	ZF4HP22	BMW11	245
M3	3.0L	1995	ZF5HP18	BMW35	248
M3	3.2L	1996-99	ZF5HP18	BMW35	248
X5	3.0L	2000-06	5L40E	BMW40L	39
X5	3.0L	2000-06	5L40E	BMW41	39
X5	3.0L	2000-06	ZF5HP24	BMW13904	253
X5	4.4L	1998-01	ZF5HP24	BMW13903	252
X5	4.4L	2001-02	ZF5HP24	BMW13900	252
X5	4.4L	2003-07	ZF6HP26	BMW13904	253
Z3	1.9L	1996-98	4L30E	BMW29	20
Z3	2.5L	1999-00	4L30E	BMW29	20
Z3	2.8L	1997-99	4L30E	BMW29	20
Z4	2.5L	2002-Up	ZF5HP19	BMW63	251
BUICK					
Allure	3.8L	2005-07	4T60E, 4T65E	GM71CW	35
Century	2.2L	1993-96	125C, 440-T4	GM73	9, 34
Century	2.5L	1984-96	125C, 440-T4	GM73	9, 34
Century	2.5L	2002	4T65E	GM71C	34
Century	2.5L	2002	4T65E	GM71CW	35
Century	2.8L	1986-89	125C, 440-T4	GM42	9, 34
Century	2.8L	1986-89	125C, 440-T4	GM71	9, 34
Century	2.8L	1995-96	125C, 440-T4	GM73	9, 34
Century	3.0L	1982-85	125C, 440-T4	GM42	9, 34
Century	3.0L	2002	4T65E	GM71C	34
Century	3.0L	2002	4T65E	GM71CW	35
Century	3.1L	1994-95	4T60E	GM42	34
Century	3.1L	1994-96	4T60E	GM71	34
Century	3.1L	1996	4T60E	GM42	34
Century	3.1L	1997	4T60E	GM42	34
Century	3.1L	1997-08	4T65E	GM42CW	35
Century	3.1L	1998	4T65E	GM71C	34
Century	3.1L	1998-99	4T60E	GM42C	35
Century	3.1L	1998-99	4T60E	GM42CW	35
Century	3.1L	1999	4T65E	GM51	36
Century	3.1L	2000-02	4T65E	GM51	36
Century	3.1L	2000-05	4T65E	GM42C	35
Century	3.1L	2002	4T65E	GM71C	34
Century	3.1L	2002	4T65E	GM71CW	35
Century	3.3L	1989-93	125C, 440-T4	GM63	9, 34
Century	3.3L	1989-93	125C, 440-T4	GM71	9, 34
Century	3.8L	1984-88	125C, 440-T4	GM71	9, 34
Century	3.8L	1997	4T60E	GM71C	34
Century	3.8L	1997-05	4T65E	GM51	36
Century	3.8L	1999-02	4T65E	GM53	36
Electra	3.0L	1985	440-T4	GM42	34
Electra	3.8L	1985-95	440-T4, 4T60E	GM71	34
Electra	3.8L	1989-95	440-T4, 4T60E	GM63	34
Electra	4.3L	1985	440-T4	GM63	34
Electra	5.0L	1981-89	200-4R	GM15AL	12
Electra	5.7L	1981-85	200-4R	GM19	13
Enclave	3.6L	2007-12	6T70, 6T75	GM1241	42
Estate Wagon	5.7L	1993	4L60E	GM18AL	27
Estate Wagon	5.7L	1996	4L60E	GM33	28
Lacrosse	3.8L	2005-07	4T65E	GM71C	34
Lacrosse	3.8L	2005-07	4T65E	GM71CW	35
LeSabre	3.0L	1986	440-T4	GM42	34
LeSabre	3.8L	1980-86	200C	GM15	12
LeSabre	3.8L	1985-91	125C, 440-T4	GM71	9, 34
LeSabre	3.8L	1985-91	125C, 440-T4	GM63	9, 34
LeSabre	3.8L	1992-95	4T60E	GM63	34
LeSabre	3.8L	1992-95	4T60E	GM71	34

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BUICK (Cont.)					
LeSabre	3.8L	1996-97	4T60E	GM63C	34
LeSabre	3.8L	1996-97	4T60E	GM71C	34
LeSabre	3.8L	1998-02	4T65E	GM50	36
LeSabre	3.8L	1998-99	4T65E	GM63CW	35
LeSabre	3.8L	1998-99	4T65E	GM71C	34
LeSabre	3.8L	1998-99	4T65E	GM71CW	35
LeSabre	3.8L	2000-05	4T65E	GM51	36
LeSabre	3.8L	2000-05	4T65E	GM53	36
LeSabre	3.8L	2003-05	4T65E	GM50	36
LeSabre	3.8L	2005	4T65E	GM53	36
LeSabre	5.0L	1981-89	200-4R	GM15AL	12
LeSabre	5.0L	1991-92	700-R4	GM18AL	27
LeSabre	5.7L	1980-85	350C	GM16AL	16
LeSabre	5.7L	1982-85	200-4R	GM19	13
LeSabre	5.7L	1991-93	700-R4	GM18AL	27
LeSabre	5.7L	1994-96	4L60E	GM33	28
Lucerne	3.8L	2005-07	4T65E	GM53	36
Lucerne	4.3L	2005-07	4T65E	GM53	36
Lucerne	4.6L	2005-07	4T80E	GM9401	37
Park Avenue	3.8L	1991-95	4T60E	GM63	34
Park Avenue	3.8L	1991-95	4T60E	GM71	34
Park Avenue	3.8L	1994-96	4T60E	GM63C	34
Park Avenue	3.8L	1994-96	4T60E	GM71C	34
Park Avenue	3.8L	1996-97	4T60E	GM63CW	35
Park Avenue	3.8L	1996-97	4T60E	GM71CW	35
Park Avenue	3.8L	1997-05	4T65E	GM50	36
Rainier	4.2L	2004-07	4L60E	GM55	29
Rainier	5.3L	2004-07	4L60E	GM92	29
Regal	2.8L	1988-89	440-T4	GM42	34
Regal	3.1L	1989-95	440-T4	GM42	34
Regal	3.1L	1996-97	4T60E	GM42C	35
Regal	3.1L	2000-02	4T65E	GM42C	35
Regal	3.8L	1980-87	200C	GM15	12
Regal	3.8L	1982-87	200-4R	GM15	12
Regal	3.8L	1990-92	440-T4	GM71	34
Regal	3.8L	1990-93	440-T4	GM71	34
Regal	3.8L	1993-95	4T60E	GM71	34
Regal	3.8L	1996-99	4T60E, 4T65E	GM42C	35
Regal	3.8L	1996-04	4T60E, 4T65E	GM71C	34
Regal	3.8L	1996-04	4T60E, 4T65E	GM71CW	35
Regal	3.8L	1997-04	4T65E	GM51	36
Regal	3.8L	1999-02	4T65E	GM53	36
Regal	5.0L	1980-87	200C	GM15AL	12
Regal	5.0L	1986-87	200-4R	GM15AL	12
Regal	5.7L	1982-85	200-4R	GM15AL	12
Rendezvous	3.4L	2001-06	4T65E	GM71C	34
Rendezvous	3.4L	2001-06	4T65E	GM71CW	35
Rendezvous	3.5L	2006-07	4T65E	GM53	36
Rendezvous	3.6L	2001-06	4T65E	GM53	36
Riviera	3.8L	1982-85	325-4L	GM15	12
Riviera	3.8L	1986-90	440-T4	GM71	34
Riviera	3.8L	1991-96	4T60E	GM71	34
Riviera	3.8L	1995-96	4T60E	GM71C	34
Riviera	3.8L	1997-99	4T65E	GM50	36
Riviera	5.0L	1982-85	325-4L	GM15AL	12
Riviera	5.7L	1982-85	325-4L	GM15AL	12
Roadmaster	5.0L	1991	700-R4	GM18AL	27
Roadmaster	5.7L	1992-93	700-R4	GM18AL	27
Roadmaster	5.7L	1994-96	4L60E	GM33	28
Skyhawk	1.8L	1982-86	125C	GM73	9
Skyhawk	2.0L	1984-89	125C	GM42	9
Skyhawk	2.0L	1984-89	125C	GM73	9
Skylark	2.3L	1985-98	125C	GM73	9

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BUICK (Cont.)					
Skylark	2.3L	1985-98	4T60E	GM42	34
Skylark	2.3L	1996-98	4T60E	GM42CW	35
Skylark	2.3L	1996-98	4T60E	GM73CW	35
Skylark	3.1L	1994-98	4T60E	GM71	34
Skylark	3.3L	1989	125C	GM42	9
Skylark	3.3L	1989-93	125C	GM71	9
Somerset	2.3L	1995	4T60E	GM73CW	35
Somerset	2.3L	1993-95	125C	GM73	9
Somerset	2.5L	1985-87	125C	GM42	9
Somerset	3.0L	1985-87	125C	GM42	9
Somerset	3.1L	1994-95	4T60E	GM71	34
Somerset	3.3L	1993	125C	GM71	9
Terraza	3.5L	2005-07	4T65E	GM53	36
CADILLAC					
265 SRX	4.4L	2005-07	5L40E	GM38	38
265 SRX	4.6L	2005-07	5L40E	GM38	38
60 Special	4.9L	1993	125C, 440-T4	GM63	9, 34
Allante	4.1L	1987-88	440-T4	GM73	34
Allante	4.5L	1989-92	440-T4	GM73	34
Allante	4.6L	1993	4T80E	GM84	37
Catera	3.0L	1997-98	4L30E	GM24-6	21
Catera	3.0L	1999-01	4L30E	GM24-6H	21
Cimarron	2.0L	1984-86	125C	GM42	9
Cimarron	2.8L	1985-88	125C	GM42	9
Concours	4.6L	1994-04	4T80E	GM86	37
CTS	2.6L	2001-07	5L40E	GM37	38
CTS	2.8L	2001-07	5L40E	GM37	38
CTS	3.2L	2001-07	5L40E	GM37	38
CTS	3.6L	2001-07	5L40E	GM37	38
CTS	3.6L	2001-07	5L40E	GM38	38
CTS	3.6L	2008-Up	6L50E	GM10403	40
Deville	4.1L	1985-87	440-T4	GM73	34
Deville	4.3L	1985	440-T4	GM73	34
Deville	4.5L	1988-90	440-T4	GM73	34
Deville	4.6L	1994-04	4T80E	GM86A	37
Deville	4.6L	1994-04	4T80E	GM84	37
Deville	4.9L	1991-95	4T60E	GM63	34
Deville	4.9L	1991-95	4T60E	GM73	34
DTS	4.6L	2005-10	4T80E	GM9401	37
Eldorado	4.1L	1986-87	440-T4	GM73	34
Eldorado	4.5L	1988-90	440-T4	GM73	34
Eldorado	4.6L	1994-04	4T80E	GM84	37
Eldorado	4.6L	1994-04	4T80E	GM86A	37
Eldorado	4.9L	1993	4T60E	GM73	34
Eldorado	4.9L	1994-04	4T80E	GM86A	37
Eldorado	5.7L	1982-85	325-4L	GM15AL	12
Eldorado	4.1L	1982-85	325-4L	GM15S	13
Eldorado	4.1L	1982-85	325-4L	GM15AH	13
Escalade	5.3L	2002-03	4L65E	GM92	29
Escalade	5.7L	1999-00	4L60E	GM33CW	28
Escalade	6.0L	1999-07	4L65E	GM92	29
Escalade	6.2L	2006-11	6L80E	GM10404	40
Fleetwood	4.1L	1985-87	440-T4	GM73	34
Fleetwood	4.3L	1985	440-T4	GM73	34
Fleetwood	4.5L	1988-90	440-T4	GM73	34
Fleetwood	5.0L	1986-90	200-4R	GM15AL	12
Fleetwood	5.0L	1987-90	400	GM3	17
Fleetwood	5.0L	1991-92	700-R4	GM18AL	27
Fleetwood	5.7L	1982-85	200-4R	GM19	13
Fleetwood	5.7L	1991-93	700-R4	GM18AL	27
Fleetwood	5.7L	1991-93	700-R4	GM18A	27
Fleetwood	5.7L	1994-96	4L60E	GM33	28
Northstar	4.6L	1994-04	4T80E	GM86A	37

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CADILLAC (Cont.)					
Seville	4.1L	1982-85	325-4L	GM15AH	13
Seville	4.1L	1986-87	440-T4	GM73	34
Seville	4.5L	1988-90	440-T4	GM73	34
Seville	4.5L	1988-90	440-T4	GM73	34
Seville	4.6L	1994-04	4T80E	GM84	37
Seville	4.6L	1994-04	4T80E	GM86A	37
Seville	4.6L	1994-04	4T80E	GM86A	37
Seville	4.9L	1991-93	4T60E	GM73	34
Seville	5.7L	1982-85	325-4L	GM15AL	12
SRX	3.6L	2004-07	5L40E	GM38	38
SRX	4.6L	2004-06	5L40E	GM38A	38
STS	3.6L	2006-12	6L50E	GM10403	40
STS	4.4L	2006-10	6L80E	GM10402	40
SUV	4.3L	1993-95	4L60E	GM18A	27
SUV	4.3L	1999-02	4L60E	GM90	29
SUV	5.0L	1990-94	700-R4	GM18AL	27
SUV	5.0L	1999-00	4L60E	GM33CW	28
SUV	5.7L	1990-94	700-R4	GM18AL	27
SUV	5.7L	1995	4L60E	GM18AL	27
SUV	5.7L	1990-00	4L60E	GM33CW	28
SUV	5.7L	1990-00	4L60E	GM35CW	28
SUV	6.0L	2001-02	4L65E	GM92	29
XLR, XLR-V	4.4L	2006-10	6L80E	GM10401	40
CHEVROLET					
Astro (See Vans)					
Acadia	3.6L	2007-12	6T70, 6T75	GM1241	42
Avalanche	5.3L	2002-07	4L60E	GM92	29
Avalanche	8.1L	2002	4L80E	GM88	31
Avalanche	8.1L	2002-06	4L80E	GM88H	31
Aveo	1.4L	2006-11	AW81-40LE	GM1991	134
Aveo	1.6L	2004-11	AW81-40LE	GM1991	134
Beretta	2.0L	1987-89	125C	GM73	9
Beretta	2.2L	1990-96	125C	GM73	9
Beretta	2.2L	1990-96	125C	GM42	9
Beretta	2.3L	1990-93	125C	GM73	9
Beretta	2.8L	1987-89	125C	GM42	9
Beretta	3.1L	1990-96	125C	GM42	9
Beretta	3.1L	1990-96	125C	GM71	9
Blazer (Incl. K5, S10)	2.5L	1985-88	700-R4	GM61HD	24
Blazer (Incl. K5, S10)	2.8L	1983-90	700-R4	GM58HD	24
Blazer (Incl. K5, S10)	4.3L	1988-94	700-R4	GM18A	27
Blazer (Incl. K5, S10)	4.3L	1992-94	700-R4	GM18AH	27
Blazer (Incl. K5, S10)	4.3L	1993-94	4L60E	GM18A	27
Blazer (Incl. K5, S10)	4.3L	1993-94	4L60E	GM18AH	27
Blazer (Incl. K5, S10)	4.3L	1994-98	4L60E	GM31	28
Blazer (Incl. K5, S10)	4.3L	1994-97	4L60E	GM35	28
Blazer (Incl. K5, S10)	4.3L	1995-04	4L60E	GM35CW	28
Blazer (Incl. K5, S10)	4.3L	1998-04	4L60E	GM33CW	28
Blazer (Incl. K5, S10)	4.3L	2005	4L60E	GM95	25
Blazer (Incl. K5, S10)	5.0L	1984-87	700-R4	GM18AL	27
Blazer (Incl. K5, S10)	5.7L	1984-91	700-R4	GM18AL	27
Blazer (Incl. K5, S10)	5.7L	1993-94	4L60E	GM18AL	27
Blazer (Incl. K5, S10)	6.5L	1994	4L80E	GM81	30
C10, C20, C30	4.3L	1985-86	400	GM3	17
C10, C20, C30	4.3L	1985-86	700-R4	GM18AH	27
C10, C20, C30 (Incl. Suburban)	4.8L	1978-86	400	GM3	17
C10, C20, C30 (Incl. Suburban)	5.0L	1980-86	350C	GM16AL	16
C10, C20, C30 (Incl. Suburban)	5.0L	1980-86	400	GM3	17
C10, C20, C30 (Incl. Suburban)	5.0L	1984-86	700-R4	GM18AL	27
C10, C20, C30 (Incl. Suburban)	5.7L	1978-86	400	GM3	17
C10, C20, C30 (Incl. Suburban)	5.7L	1978-86	400	GM3	17
C10, C20, C30 (Incl. Suburban)	5.7L	1980-86	350C	GM16AL	16
C10, C20, C30 (Incl. Suburban)	5.7L	1984-86	700-R4	GM18AL	27

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CHEVROLET (Cont.)					
C10, C20, C30 (Incl. Suburban)	6.2L	1982-85	400	GM6	18
C10, C20, C30 (Incl. Suburban)	6.2L	1984-86	700-R4	GM18AL	27
C1500, C2500, C3500	4.3L	1988-90	400	GM3	17
C1500, C2500, C3500	4.3L	1988-95	700-R4	GM18AH	27
C1500, C2500, C3500	4.3L	1991-95	700-R4	GM18A	27
C1500, C2500, C3500	4.3L	1993-95	4L60E	GM18AH	27
C1500, C2500, C3500	4.3L	1995	4L60E	GM31	28
C1500, C2500, C3500	4.3L	1999-05	4L60E	GM90	29
C1500, C2500, C3500	4.3L	1991-97	4L80E	GM82	30
C1500, C2500, C3500	5.0L	1988-90	400	GM3	17
C1500, C2500, C3500	5.0L	1988-90	400	GM3	17
C1500, C2500, C3500	5.0L	1988-95	700-R4	GM18AL	27
C1500, C2500, C3500	5.0L	1994-95	4L80E	GM81	30
C1500, C2500, C3500	5.0L	1996-97	4L60E	GM33	28
C1500, C2500, C3500	5.0L	1998-99	4L60E	GM33CW	28
C1500, C2500, C3500	5.3L	1999-06	4L60E	GM92	29
C1500, C2500, C3500	5.7L	1988-90	400	GM3	17
C1500, C2500, C3500	5.7L	1988-90	400	GM6	18
C1500, C2500, C3500	5.7L	1989-95	700-R4	GM18AL	27
C1500, C2500, C3500	5.7L	1991-97	4L80E	GM82	30
C1500, C2500, C3500	5.7L	1991-00	4L80E	GM88	31
C1500, C2500, C3500	5.7L	1996-97	4L60E	GM33	28
C1500, C2500, C3500	5.7L	1998-00	4L60E	GM33CW	28
C1500, C2500, C3500	6.0L	2007-11	6L90	GM10404	40
C1500, C2500, C3500	6.0L	2000	4L80E	GM88H	31
C1500, C2500, C3500	6.2L	1988-90	400	GM6	18
C1500, C2500, C3500	6.2L	1988-93	700-R4	GM18AL	27
C1500, C2500, C3500	6.2L	1991-93	4L80E	GM82	30
C1500, C2500, C3500	6.5L	1992-97	4L80E	GM81	30
C1500, C2500, C3500	6.5L	1994-95	4L60E	GM18AL	27
C1500, C2500, C3500	6.5L	1995	4L60E	GM33	28
C1500, C2500, C3500	6.5L	1998-00	4L80E	GM88	31
C1500, C2500, C3500	7.4L	1988-90	400	GM6	18
C1500, C2500, C3500	7.4L	1991-97	4L80E	GM81	30
C1500, C2500, C3500	7.4L	1998-99	4L80E	GM88	31
Camaro	2.5L	1983-86	700-R4	GM61HD	24
Camaro	2.8L	1984-89	700-R4	GM58HD	24
Camaro	2.8L	1986-87	700-R4	GM61HD	24
Camaro	3.1L	1990-92	700-R4	GM58HD	24
Camaro	3.1L T	1990-92	700-R4	GM58CHD	24
Camaro	3.4L S	1993	700-R4	GM58CHD	24
Camaro	3.4L S	1993-94	4L60E	GM58CHD	24
Camaro	3.4L	1994-95	4L60E	GM58CHD	24
Camaro	3.4L S	1995	4L60E	GM59CHD	24
Camaro	3.4L	2000	4L60E	GM92	29
Camaro	3.6L	2009-11	6L50E	GM10403	40
Camaro	3.8L	1995-98	4L60E	GM31	28
Camaro	3.8L	1995-98	4L60E	GM58CHD	24
Camaro	3.8L	1995-98	4L60E	GM59CHD	24
Camaro	3.8L	1999-02	4L60E	GM58CWHD	25
Camaro	3.8L	1999-02	4L60E	GM59CWHD	24
Camaro	5.0L	1984-92	700-R4	GM18AL	27
Camaro	5.0L F	1989-92	700-R4	GM18A	27
Camaro	5.7L	1987-92	700-R4	GM18AL	27
Camaro	5.7L	1990-92	700-R4	GM18A	27
Camaro	5.7L	1993-97	4L60E	GM33	28
Camaro	5.7L	1993-07	4L60E	GM18AL	27
Camaro	5.7L	1998-02	4L60E	GM92	29
Camaro	5.7L	1999-05	4L65E	GM92	29
Caprice	4.3L	1985-87	200C, 200-4R	GM15AH	13
Caprice	4.3L	1987-93	700-R4	GM18AL	27
Caprice	4.3L	1992	700-R4	GM18AH	27
Caprice	4.3L	1994-96	4L60E	GM31	28

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CHEVROLET (Cont.)					
Caprice	4.3L	1994-96	4L60E	GM33	28
Caprice	5.0L	1980-87	200C	GM15AL	12
Caprice	5.0L	1981-90	200-4R	GM15AL	12
Caprice	5.0L	1984-93	700-R4	GM18AL	27
Caprice	5.7L	1985-87	200C	GM15AL	12
Caprice	5.7L	1985-93	700-R4	GM18A, GM18AL	27
Caprice	5.7L	1994-96	4L60E	GM33	28
Cavalier	2.0L	1983-97	125C	GM73	9
Cavalier	2.0L	1998-01	125C	GM73CW	9
Cavalier	2.2L	1997	4T40E	GM73CW	32
Cavalier	2.2L	1990-94	125C	GM73	9
Cavalier	2.2L	1995-98	125C	GM73C	9
Cavalier	2.2L	1995-96	4T40E	GM73C	35
Cavalier	2.2L	1998-01	125C	GM73CW	9
Cavalier	2.2L	1998-02	4T40E	GM73CW	32
Cavalier	2.3L	1995-96	4T40E	GM73C	35
Cavalier	2.4L	1996-97	4T40E	GM73C	35
Cavalier	2.4L	1998-05	4T40E	GM73CW	32
Cavalier	2.8L	1985-93	125C	GM42	9
Cavalier	2.8L	1995-97	125C	GM73	9
Cavalier	2.8L	1998-01	125C	GM73CW	9
Cavalier	3.1L	1985-94	125C	GM42	9
Celebrity	2.5L	1982-90	125C	GM73	9
Celebrity	2.5L	1982-90	125C	GM42	9
Celebrity	2.5L	1984-90	440-T4	GM42	34
Celebrity	2.8L	1982-89	125C	GM42	9
Celebrity	2.8L	1984-89	440-T4	GM42	34
Cobalt	2.0L	2005-10	4T45E	GM73CW	32
Cobalt	2.2L	2005-10	4T45E	GM73CW	32
Colorado	2.8L	2004-06	4L60E	GM58CWH	25
Colorado	2.9L	2007-10	4L60E	GM58CWH	25
Colorado	3.5L	2004-06	4L60E	GM56	25
Colorado	3.7L	2007-08	4L60E	GM56	25
Corsica	2.0L	1987-89	125C	GM73	9
Corsica	2.2L	1990-96	125C	GM73	9
Corsica	2.8L	1987-89	125C	GM42	9
Corsica	3.1L	1990-93	125C	GM42	9
Corsica	3.1L	1990-96	125C	GM71	9
Corvette	5.7L	1984-93	700-R4	GM18AL	27
Corvette	5.7L	1990-93	700-R4	GM33	28
Corvette	5.7L	1994-95	4L60E	GM18AL	27
Corvette	5.7L	1994-01	4L60E	GM33	28
Corvette	5.7L	1996-04	4L60E	GM33CW	28
Corvette	6.0L	2005	4L65E	GM54	29
Corvette	6.0L	2005-12	6L80E	GM10405	40
El Camino	4.3L	1985	200C	GM15AH	13
El Camino	4.3L	1986-87	200C	GM15AL	12
El Camino	4.3L	1986-87	200-4R	GM15AL	12
El Camino	5.0L	1985-87	200C	GM15AL	12
El Camino	5.0L	1984-87	200-4R	GM15AL	12
Equinox	3.4L	2004-09	AW55-50SN	TO79	132
Equinox	3.6L	2007-12	6T70, 6T75	GM1241	42
Estate Wagon	5.7L	1992-93	700-R4	GM18AL	27
Estate Wagon	5.7L	1992-93	4L60E	GM18AL	27
Estate Wagon	5.7L	1994-96	4L60E	GM33	28
Express Vans (See Vans)					
G10, G20, G30 Vans (See Vans)					
HHR	2.2L	2006-10	4T45E	GM73CW	32
Impala	3.1L	2000-02	4T65E	GM42C	35
Impala	3.4L	2001-05	4T65E	GM42C	35
Impala	3.4L	2001-05	4T65E	GM42CW	35
Impala	3.5L	2006	4T65E	GM53	36
Impala	3.8L	2000-05	4T65E	GM71C	34

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CHEVROLET (Cont.)					
Impala	3.8L	2000-05	4T65E	GM71CW	35
Impala	3.8L	2001-06	4T65E	GM53	36
Impala	3.9L	2001-06	4T65E	GM53	36
Impala	4.3L	1985	200C	GM15AH	13
Impala	4.3L	1985	200-4R	GM15AH	13
Impala	4.3L	1994-96	4L60E	GM33	28
Impala	5.0L	1980-85	200C	GM15AL	12
Impala	5.0L	1983-85	200-4R	GM15AL	12
Impala	5.0L	1984-85	700-R4	GM18AL	27
Impala	5.3L	2006-07	4T65E	GM53	36
Impala	5.7L	1985	200C	GM15AL	12
Impala	5.7L	1983-85	200-4R	GM19	13
Impala	5.7L	1985	200-4R	GM15AL	12
Impala	5.7L	1984-85	700-R4	GM18AL	27
Impala	5.7L	1994-96	4L60E	GM33	28
K10, K20, K30	4.3L	1985-86	400	GM3	17
K10, K20, K30	4.3L	1985-86	700-R4	GM18AH	27
K10, K20, K30	4.8L	1978-86	400	GM3	17
K10, K20, K30	5.0L	1978-86	400	GM3	17
K10, K20, K30	5.0L	1984-86	700-R4	GM18AL	27
K10, K20, K30 (Incl. Suburban)	5.7L	1978-86	400	GM3	17
K10, K20, K30 (Incl. Suburban)	5.7L	1980-86	350C	GM16AL	16
K10, K20, K30 (Incl. Suburban)	5.7L	1984-86	700-R4	GM18AL	27
K10, K20, K30 (Incl. Suburban)	6.2L	1982-86	400	GM6	18
K10, K20, K30 (Incl. Suburban)	6.2L	1982-86	700-R4	GM18AL	27
K10, K20, K30 (Incl. Suburban)	7.4L	1981-86	400	GM6	18
K1500, K2500, K3500	4.3L	1988-90	400	GM3	17
K1500, K2500, K3500	4.3L	1989-95	700-R4	GM18AH	27
K1500, K2500, K3500	4.3L	1989-95	700-R4	GM18A	27
K1500, K2500, K3500	4.3L	1993-95	4L60E	GM18AH	27
K1500, K2500, K3500	4.3L	1993-95	4L60E	GM18A	27
K1500, K2500, K3500	4.3L	1996-97	4L60E	GM35	28
K1500, K2500, K3500	4.3L	1998	4L60E	GM35CW	28
K1500, K2500, K3500	4.3L	1999-05	4L60E	GM90	29
K1500, K2500, K3500	5.0L	1988-90	400	GM3	17
K1500, K2500, K3500	5.0L	1988-94	700-R4	GM18AL	27
K1500, K2500, K3500	5.0L	1993-96	4L60E	GM18AL	27
K1500, K2500, K3500	5.0L	1996-97	4L60E	GM33	28
K1500, K2500, K3500	5.0L	1998-99	4L60E	GM33CW	28
K1500, K2500, K3500	5.3L	1999-06	4L60E	GM92	29
K1500, K2500, K3500	5.7L	1988	400	GM3	17
K1500, K2500, K3500	5.7L	1988-90	400	GM6	18
K1500, K2500, K3500	5.7L	1988-95	700-R4	GM18AL	27
K1500, K2500, K3500	5.7L	1993-95	4L60E	GM18AL	27
K1500, K2500, K3500	5.7L	1996-97	4L60E	GM33	28
K1500, K2500, K3500	5.7L	1998-00	4L60E	GM33CW	28
K1500, K2500, K3500	5.7L	1991-97	4L80E	GM82	30
K1500, K2500, K3500	5.7L	1998-Up	4L80E	GM88	31
K1500, K2500, K3500	6.0L	2003	4L80E	GM88H	31
K1500, K2500, K3500	6.2L	1988-90	400	GM6	18
K1500, K2500, K3500	6.2L	1988-92	700-R4	GM18AL	27
K1500, K2500, K3500	6.2L	1991-93	4L80E	GM82	30
K1500, K2500, K3500	6.2L	1992-93	700-R4	GM18AL	27
K1500, K2500, K3500	6.5L	1994-95	4L60E	GM18AL	27
K1500, K2500, K3500	6.5L	1995	4L60E	GM33	28
K1500, K2500, K3500	6.5L	1992-97	4L80E	GM81	30
K1500, K2500, K3500	6.5L	1994-97	4L80E	GM81	30
K1500, K2500, K3500	6.5L	1998-00	4L80E	GM88	31
K1500, K2500, K3500	7.4L	1988-90	400	GM6	18
K1500, K2500, K3500	7.4L	1991-97	4L80E	GM81	30
K4500	6.6L	2009	6L80E	GM10406	40
Lumina (Incl. APV)	2.5L	1990-92	125C	GM73	9
Lumina (Incl. APV)	3.1L	1990-95	125C, 440-T4	GM42	9, 34

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CHEVROLET (Cont.)					
Lumina (Incl. APV)	3.1L	1991-97	4T60E	GM42	34
Lumina (Incl. APV)	3.1L	1994-99	4T60E	GM71C	34
Lumina (Incl. APV)	3.1L	1998-99	4T60E	GM42CW	35
Lumina (Incl. APV)	3.1L	1997-99	4T65E	GM42C	35
Lumina (Incl. APV)	3.1L	1999-02	4T65E	GM71C	34
Lumina (Incl. APV)	3.1L	1999-02	4T65E	GM71CW	35
Lumina (Incl. APV)	3.1L	2000-02	4T65E	GM42CW	35
Lumina (Incl. APV)	3.4L	1993-96	4T60E	GM42	34
Lumina (Incl. APV)	3.4L	1996	4T60E	GM42C	35
Lumina (Incl. APV)	3.4L	2000-02	4T65E	GM42CW	35
Lumina (Incl. APV)	3.8L	1992-93	4T60E	GM42	34
Lumina (Incl. APV)	3.8L	1992-93	4T60E	GM71	34
Lumina (Incl. APV)	3.8L	1994-04	4T60E	GM71C	34
Lumina (Incl. APV)	3.8L	1999-02	4T65E	GM71C	34
Lumina (Incl. APV)	3.8L	1999-02	4T65E	GM71CW	35
Lumina (Incl. APV)	3.8L	2001-04	4T65E	GM53	36
Malibu	2.2L	2004-Up	4T40E, 4T45E	GM73CW	32
Malibu	2.4L	1997	4T40E, 4T45E	GM73C	35
Malibu	2.4L	1997-99	4T40E, 4T45E	GM73CW	32
Malibu	2.4L	2008-12	6T40, 6T45	GM1441	41
Malibu	3.1L	1997-98	4T40E, 4T45E	GM71C	34
Malibu	3.1L	1997-03	4T40E, 4T45E	GM71CW	32
Malibu	3.4L	2003-06	4T40E, 4T45E	GM42CW	32
Malibu	3.5L	2003-08	4T40E, 4T45E	GM71CW	32
Metro	1.0L	1998-99	MX17	TO30	207
Metro	1.3L	1998-01	MX17	TO30	207
Monte Carlo	3.4L	1995	4T60E	GM42	34
Monte Carlo	3.4L	1996-97	4T60E	GM42C	35
Monte Carlo	3.4L	1998-05	4T65E	GM42CW	35
Monte Carlo	3.8L	1997-07	4T65E	GM53	36
Monte Carlo	3.8L	1998-04	4T65E	GM71C	34
Monte Carlo	4.3L	1985-87	200-4R	GM15AH	13
Monte Carlo	5.0L	1983-87	200C	GM15AL	12
Monte Carlo	5.0L	1984-88	200-4R	GM15AH	13
Monte Carlo	5.3L	2005-07	4T65E	GM53	36
Monte Carlo SS	5.3L	2006-07	4T65E	GM53	36
Nova	1.6L	1985-88	A131	TO19	208
P20, P30	3.9L	1990	400	GM6	18
P20, P30	4.3L	1990	400	GM3	17
P20, P30	4.3L	1991-97	4L80E	GM82	30
P20, P30	4.8L	1977-89	400	GM3	17
P20, P30	5.7L	1978-89	400	GM3	17
P20, P30	5.7L	1987-90	400	GM6	18
P20, P30	5.7L	1991-97	4L80E	GM82	30
P20, P30	6.2L	1982-90	400	GM6	18
P20, P30	6.2L	1991-97	4L80E	GM82	30
P20, P30	6.5L	1998-99	4L80E	GM88	31
P20, P30	7.4L	1978-90	400	GM6	18
P20, P30	7.4L	1991-97	4L80E	GM81	30
P20, P30	7.4L	1998-99	4L80E	GM88	31
Prizm	1.8L	1998-02	A131	TO19	208
Prizm	1.8L	1998-02	A245E	TO19	208
R10, R20, R30 (Incl. Suburban)	4.3L	1987-88	400	GM3	17
R10, R20, R30 (Incl. Suburban)	4.3L	1987-88	700-R4	GM18AH	27
R10, R20, R30 (Incl. Suburban)	5.7L	1987-88	400	GM3	17
R10, R20, R30 (Incl. Suburban)	5.7L	1987-88	700-R4	GM18AL	27
R10, R20, R30 (Incl. Suburban)	6.2L	1987-88	400	GM6	18
R10, R20, R30 (Incl. Suburban)	6.2L	1987-88	700-R4	GM18AL	27
R10, R20, R30 (Incl. Suburban)	6.2L	1987-88	400	GM6	18
R10, R20, R30 (Incl. Suburban)	6.2L	1987-88	700-R4	GM18AL	27
R10, R20, R30 (Incl. Suburban)	7.4L	1987-88	400	GM6	18
R10, R20, R30 (Incl. Suburban)	7.4L	1987-88	700-R4	GM18AL	27
R1500, R2500, R3500 (Incl. Suburban)	5.7L	1989-91	400	GM3, GM6	17, 18

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R1500, R2500, R3500 (Incl. Suburban)	5.7L	1989-91	700-R4	GM18AL	27
R1500, R2500, R3500 (Incl. Suburban)	5.7L	1991	4L80E	GM82	30
R1500, R2500, R3500 (Incl. Suburban)	6.2L	1989-91	400	GM6	18
R1500, R2500, R3500 (Incl. Suburban)	6.2L	1989-91	700-R4	GM18AL	27
R1500, R2500, R3500 (Incl. Suburban)	6.2L	1991	4L80E	GM82	30
R1500, R2500, R3500 (Incl. Suburban)	7.4L	1989-91	400	GM6	18
R1500, R2500, R3500 (Incl. Suburban)	7.4L	1989-91	700-R4	GM18AL	27
R1500, R2500, R3500 (Incl. Suburban)	7.4L	1991	4L80E	GM81	30
S10 (Incl. Blazer)	1.9L	1983-85	700-R4	GM61HD	24
S10 (Incl. Blazer)	2.2L	1994-03	4L60E	GM61CHD	24
S10 (Incl. Blazer)	2.2L	1998-03	4L60E	GM61CWH	25
S10 (Incl. Blazer)	2.5L	1985-93	700-R4	GM61HD	24
S10 (Incl. Blazer)	2.8L	1983-93	700-R4	GM58HD	24
S10 (Incl. Blazer)	4.3L	1988-94	700-R4	GM18A	27
S10 (Incl. Blazer)	4.3L	1988-94	700-R4	GM18AH	27
S10 (Incl. Blazer)	4.3L	1993-94	4L60E	GM18A	27
S10 (Incl. Blazer)	4.3L	1993-94	4L60E	GM18AH	27
S10 (Incl. Blazer)	4.3L	1994-98	4L60E	GM35	28
S10 (Incl. Blazer)	4.3L	1994-98	4L60E	GM31	28
S10 (Incl. Blazer)	4.3L	1998-04	4L60E	GM35CW	28
Silverado 1500	4.3L	1999-06	4L60E	GM90	29
Silverado 1500	4.8L	1999-02	4L60E	GM90	29
Silverado 1500	4.8L	2003-06	4L60E	GM92	29
Silverado 1500	5.3L	1999-06	4L60E	GM92	29
Silverado 1500	6.0L	2001-06	4L60E	GM92	29
Silverado 1500HD	6.0L	2001-05	4L80E	GM88H	31
Silverado 2500	5.3L	1999-00	4L60E	GM92	29
Silverado 2500	6.0L	1999-06	4L80E	GM88H	31
Silverado 2500	6.0L	2003	4L65E	GM92	29
Silverado 2500HD	6.0L	2007-09	6L90	GM10404	40
Silverado 2500HD	6.6L	2001-06	1000, 2000, 2400	A7X	48
Silverado 2500HD	8.1L	2001-06	1000, 2000, 2400	A7XH	48
Silverado 2500HD	8.1L	2002-03	4L80E	GM88	31
Silverado 3500	6.0L	2001-06	4L80E	GM88H	31
Silverado 3500	6.6L	2001-05	1000, 2000, 2400	A7X	48
Silverado 3500	8.1L	2001-06	1000, 2000, 2400	A7XH	48
Silverado 3500HD	6.0L	2007-09	6L90	GM10404	40
Tahoe	4.8L	2000-06	4L60E	GM90	29
Tahoe	4.8L	2000-06	4L60E	GM92	29
Tahoe	5.3L	2000-Up	4L60E	GM92	29
Tahoe	5.7L	1995	4L60E	GM18AL	27
Tahoe	5.7L	1996-97	4L60E	GM33	28
Tahoe	5.7L	1998-00	4L60E	GM33CW	28
Tahoe	6.0L	2001-06	4L65E	GM92	29
Tahoe	6.5L	1995-97	4L80E	GM81	30
Tahoe	6.5L	1998-99	4L80E	GM88	31
Tracker	1.6L	1998	180C	GM83	10
Tracker	1.6L	1998-00	A44DE	TO23	203
Tracker	2.0L	1999-03	A44DE	TO37	202
Tracker	2.5L	2001-04	A44DE	TO39	202
Trailblazer	4.2L	2002-07	4L60E	GM55	29
Trailblazer	5.3L	2003-06	4L60E	GM92	29
Trailblazer	6.0L	2006-07	4L70E	GM92	29
Uplander	3.5L	2003-05	4T65E	GM71CW	35
Uplander	3.5L	2006-08	4T65E	GM53	36
Uplander	3.9L	2006-08	4T65E	GM53	36
V10, V20, V30 (Incl. Suburban)	4.3L	1987	400	GM3	17
V10, V20, V30 (Incl. Suburban)	4.3L	1987	700-R4	GM18AH	27
V10, V20, V30 (Incl. Suburban)	5.0L	1987	400	GM3	17
V10, V20, V30 (Incl. Suburban)	5.0L	1987	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	5.7L	1987-88	400	GM3	17
V10, V20, V30 (Incl. Suburban)	5.7L	1987-88	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	6.2L	1987-88	400	GM6	18

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CHEVROLET (Cont.)					
V10, V20, V30 (Incl. Suburban)	6.2L	1987-88	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	7.4L	1987-88	400	GM6	18
V10, V20, V30 (Incl. Suburban)	7.4L	1987-88	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	5.7L	1989-90	400	GM3, GM6	17, 18
V10, V20, V30 (Incl. Suburban)	5.7L	1989-91	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	5.7L	1991	4L80E	GM82	30
V10, V20, V30 (Incl. Suburban)	6.2L	1989-90	400	GM6	18
V10, V20, V30 (Incl. Suburban)	6.2L	1989-91	700-R4	GM18AL	27
V10, V20, V30 (Incl. Suburban)	6.2L	1991	4L80E	GM82	30
Van - Astro, Safari	4.3L	1995	4L60E	GM35	28
Van - Astro, Safari	4.3L	1985-94	4L60E	GM18A	27
Van - Astro, Safari	4.3L	1996-97	4L60E	GM35	28
Van - Astro, Safari	4.3L	1998-00	4L60E	GM35CW	28
Van - Astro, Safari	4.3L	2001-06	4L60E	GM90	29
Van - Astro, Safari	4.3L	2001-06	4L60E	GM95	25
Van - Express 1500, 2500, 3500	4.3L	1991-97	4L80E	GM82	30
Van - Express 1500, 2500, 3500	4.3L	1996-97	4L60E	GM35	28
Van - Express 1500, 2500, 3500	4.3L	1999-02	4L60E	GM35CW	28
Van - Express 1500, 2500, 3500	4.3L	2001	4L80E	GM88H	31
Van - Express 1500, 2500, 3500	4.3L	2004-06	4L60E	GM90	29
Van - Express 1500, 2500, 3500	4.8L	2006	4L60E	GM92	29
Van - Express 1500, 2500, 3500	4.8L	2004-09	4L80E	GM88H	31
Van - Express 1500, 2500, 3500	4.8L	2004-09	4L80E	GM88H	31
Van - Express 1500, 2500, 3500	5.0L	1996-97	4L60E	GM33	28
Van - Express 1500, 2500, 3500	5.0L	1998-02	4L60E	GM33CW	28
Van - Express 1500, 2500, 3500	5.3L	2003-05	4L60E	GM92	29
Van - Express 1500, 2500, 3500	5.7L	1996-97	4L60E	GM33	28
Van - Express 1500, 2500, 3500	5.7L	1996-97	4L80E	GM82	30
Van - Express 1500, 2500, 3500	5.7L	1998-02	4L60E	GM33CW	28
Van - Express 1500, 2500, 3500	5.7L	2001-02	4L80E	GM88H	31
Van - Express 1500, 2500, 3500	6.0L	2003-05	4L80E	GM88H	31
Van - Express 1500, 2500, 3500	6.5L	1996-97	4L80E	GM81	30
Van - Express 1500, 2500, 3500	6.5L	1998	4L80E	GM88	31
Van - Express 1500, 2500, 3500	6.5L	2000	4L80E	GM88	31
Van - Express 1500, 2500, 3500	6.6L	2006	4L80E	GM88	31
Van - Express 1500, 2500, 3500	7.4L	1997	4L80E	GM81, GM88	30
Van - G10, G20, G30	4.3L	1985-90	400	GM3	17
Van - G10, G20, G30	4.3L	1985-92	700-R4	GM18AH	27
Van - G10, G20, G30	4.3L	1993-94	4L60E	GM18AH	27
Van - G10, G20, G30	4.3L	1995-96	4L60E	GM35	28
Van - G10, G20, G30	4.3L	1997-98	4L60E	GM35CW	28
Van - G10, G20, G30	5.0L	1978-90	400	GM3	17
Van - G10, G20, G30	5.0L	1980-86	350C	GM16AL	16
Van - G10, G20, G30	5.0L	1984-92	700-R4	GM18AL	27
Van - G10, G20, G30	5.0L	1993-94	4L60E	GM18AL	27
Van - G10, G20, G30	5.0L	1995-96	4L60E	GM33	28
Van - G10, G20, G30	5.7L	1978-90	400	GM3	17
Van - G10, G20, G30	5.7L	1978-90	400	GM6	18
Van - G10, G20, G30	5.7L	1980-86	350C	GM16AL	16
Van - G10, G20, G30	5.7L	1984-92	700-R4	GM18AL	27
Van - G10, G20, G30	5.7L	1993-95	4L60E	GM18AL	27
Van - G10, G20, G30	5.7L	1995-96	4L60E	GM33	28
Van - G10, G20, G30	6.2L	1983-90	400	GM6	18
Van - G10, G20, G30	6.2L	1983-93	700-R4	GM15AL	26
Van - G10, G20, G30	6.5L	1994-95	4L60E	GM18AL	27
Van - G10, G20, G30	7.4L	1989-90	400	GM6	18
CHRYSLER					
300	2.7L	2004-11	42RLE	CR0621	95
300	3.5L	2004-11	42RLE	CR0621	95
300	3.5L	2004-11	722.6	CR7801	99
300	5.7L	2005-06	722.6	MB18B	99
300M	3.5L	1999-01	A606	CR86	112
300M	3.5L	1999-04	A606	CR86	112

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CHRYSLER (Cont.)					
Aspen	5.7L	2007-09	5-45RFE	CR2A	96
Cirrus	2.0L	2000	A604	CR42	110
Cirrus	2.4L	1995-00	A604	CR42	110
Cirrus	2.5L	1995-00	A604	CR42	110
Concorde	2.7L	1998-02	A606	CR86	112
Concorde	2.7L	2003-04	A606	CR0621	112
Concorde	3.2L	1998-01	A606	CR86	112
Concorde	3.3L	1993-96	A606	CR46	112
Concorde	3.5L	1993-97	A606	CR46	112
Concorde	3.5L	2002-04	A606	CR86	112
Conquest	2.6L	1987-89	4N71B	DA14	181
Crossfire (SC)	3.2L	2004	722.6	MB18A	99
Crossfire (Non SC)	3.2L	2004-06	722.6	CR7801	99
Daytona	2.5L	1987	A413, A470, A670	CR39	100
Dynasty	2.5L	1988-93	A413, A470, A670	CR42	101
Dynasty	3.0L	1989-90	A604	CR44	110
Dynasty	3.3L	1990-93	A604	CR45	110
E Class	2.6L	1983-85	A413, A470, A670	CR35	100
Fifth Avenue	5.2L	1983-89	A904	CR9L, CR9H	126
Grand Voyager	3.0L	2000	A604	CR42	110
Grand Voyager	3.3L	2000	A604	CR85	111
Imperial	3.3L	1990	A604	CR44	110
Imperial	3.3L	1991	A604	CR45	110
Imperial	3.8L	1991-93	A604	CR45	110
Intrepid	3.5L	2001-04	A606	CR86	112
Laser	2.2L	1984-85	A413, A470, A670	CR35	100
Laser	2.2L	1986	A413, A470, A670	CR39	100
Lebaron	2.2L	1982-85	A413, A470, A670	CR35	100
Lebaron	2.2L	1982-85	A413, A470, A670	CR43	100
Lebaron	2.2L	1986-87	A413, A470, A670	CR39	100
Lebaron	2.2L	1988-89	A413, A470, A670	CR42	101
Lebaron	2.5L	1986-87	A413, A470, A670	CR39	100
Lebaron	2.5L	1988-93	A413, A470, A670	CR42	101
Lebaron	2.5L	1988-93	A413, A470, A670	CR40	100
Lebaron	2.6L	1982-85	A413, A470, A670	CR35	100
Lebaron	3.0L	1990-95	A413, A470, A670	CR42	101
Lebaron	3.0L	1990	A604	CR44	110
Lebaron	3.0L	1991-95	A604	CR42	110
LHS	3.5L	1994-97	A606	CR46	112
LHS	3.5L	1999-01	A606	CR86	112
Neon	2.0L	2000-02	A413, A470, A670	CR42	101
New Yorker	2.2L	1983-85	A413, A470, A670	CR35	100
New Yorker	2.2L	1986-87	A413, A470, A670	CR39	100
New Yorker	2.2L	1988	A413, A470, A670	CR42	101
New Yorker	2.6L	1983-85	A413, A470, A670	CR35	100
New Yorker	3.0L	1988	A413, A470, A670	CR42	101
New Yorker	3.0L	1988-89	A604	CR44	110
New Yorker	3.3L	1990-93	A604	CR45	110
New Yorker	3.3L	1990-93	A604	CR44	110
New Yorker	3.3L	1993	A606	CR46	112
New Yorker	3.5L	1994-96	A606	CR46	112
New Yorker	3.8L	1991-93	A604	CR45	110
Pacifica	3.5L	2004-07	A604	CR0923	111
Pacifica	3.8L	2005	A604	CR85	111
Pacifica	4.0L	2007-08	62TE	CR1320	97
Prowler	3.5L	2001-02	A606	CR86	112
PT Cruiser	2.4L	2001-07	A604	CR73	110
PT Cruiser	2.4L	2001-07	A604	CR42	110
PT Cruiser	2.4L	2007	A604	CR88	111
PT Cruiser	2.4L	2007	A604	CR85	111
Sebring	2.0L	1995-99	A604	CR42	110
Sebring	2.4L	1996-05	A604	CR73	110
Sebring	2.4L	1996-05	A604	CR42	110

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CHRYSLER (Cont.)					
Sebring	2.4L	2001-05	F4A42	KM27	173
Sebring	2.4L	2007-08	A604	CR0920	111
Sebring	2.5L	1995-00	A604	CR42	110
Sebring	2.7L	1998-04	A604	CR85	111
Sebring	2.7L	2004	A604	CR0923	111
Sebring	2.7L	2005	A604	CR42	110
Sebring	2.7L	2007	A604	CR0921	111
Sebring	3.0L	2001-06	F4A51	KM17	172
Sebring	3.0L	2001-06	F4A51	KM28	174
Sebring	3.5L	2007-09	62TE	CR1320	97
Town & Country	2.2L	1982-85	A413, A470, A670	CR35	100
Town & Country	2.2L	1986-87	A413, A470, A670	CR39	100
Town & Country	2.2L	1988	A413, A470, A670	CR42	101
Town & Country	2.5L	1988	A413, A470, A670	CR42	101
Town & Country	2.6L	1982-85	A413, A470, A670	CR35	100
Town & Country	3.3L	1990	A604	CR44	110
Town & Country	3.3L	1991-97	A604	CR45	110
Town & Country	3.3L	1998-06	A604	CR85	111
Town & Country	3.8L	2008-09	62TE	CR1320	97
Town & Country	3.8L	2010-12	62TE	CR1323	97
Town & Country	3.8L	1994-97	A604	CR45	110
Town & Country	3.8L	1998-05	A604	CR85	111
Town & Country	3.8L	2006-07	A604	CR0923	111
Town & Country	4.0L	2008-09	62TE	CR1320	97
Voyager	2.4L	2000-02	A413, A470, A670	CR42	101
Voyager	2.4L	2000-03	A604	CR42	110
Voyager	3.0L	2000	A604	CR42	110
Voyager	3.3L	2000-03	A604	CR85	111
DODGE					
600	2.2L	1983-85	A413, A470, A670	CR35	100
600	2.2L	1986-87	A413, A470, A670	CR39	100
600	2.2L	1988	A413, A470, A670	CR42	101
600	2.5L	1986-87	A413, A470, A670	CR39	100
600	2.5L	1988	A413, A470, A670	CR42	101
600	2.6L	1983-85	A413, A470, A670	CR35	100
Aries	2.2L	1981-85	A413, A470, A670	CR35	100
Aries	2.2L	1986-89	A413, A470, A670	CR42	101
Aries	2.2L	1986-89	A413, A470, A670	CR39	100
Aries	2.5L	1986-89	A413, A470, A670	CR42	101
Aries	2.5L	1986-89	A413, A470, A670	CR39	100
Aries	2.6L	1981-85	A413, A470, A670	CR35	100
Avenger	2.0L	1995-00	A604	CR42	110
Avenger	2.4L	2007-10	A604	CR0920	111
Avenger	2.5L	1995-00	A604	CR42	110
Avenger	2.7L	2007-10	A604	CR0921	111
Avenger	3.5L	2008-10	62TE	CR1320	97
B150	3.7L	1981-85	A727	CR11H, CR11L	119
B150	3.7L	1981-87	A904	CR9H	126
B150	3.9L	1989-92	A500	CR9H	104
B150	3.9L	1994	A500	CR80	103
B150	3.9L	1984-94	A904	CR28	126
B150	3.9L	1988-89	A904	CR9L	126
B150	3.9L	1990-92	A904	CR9H	126
B150	3.9L	1993	A904	CR9L	126
B150	5.2L	1988-91	A500	CR9L	104
B150	5.2L	1992-93	A500	CR28	105
B150	5.2L	1992-94	A518	CR63	107
B150	5.2L	1981-86	A727	CR11H, CR11L	119
B150	5.2L	1987	A727	CR10L	116
B150	5.2L	1994	A727	CR66	117
B150	5.2L	1981-85	A904	CR9L, CR9H	126
B1500	3.9L	1995	A500	CR80	103
B1500	3.9L	1995	A904	CR28	126

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DODGE (Cont.)					
B1500	3.9L	1996-98	A904	CR91	126
B1500	5.2L	1995	A518	CR63	107
B1500	5.2L	1995	A727	CR66	117
B1500	5.2L	1996-97	A727	CR92	117
B1500	5.2L	1996-98	A518	CR94	107
B1500	5.9L	1998	A518	CR94	107
B250	3.7L	1981-85	A727	CR11H, CR11L	119
B250	3.7L	1981-87	A904	CR9H	126
B250	3.9L	1989-92	A500	CR9H	104
B250	3.9L	1994	A500	CR80	103
B250	3.9L	1993-94	A904	CR28	126
B250	5.2L	1988-89	A500	CR67	104
B250	5.2L	1993	A500	CR9L	104
B250	5.2L	1992-94	A518	CR63	107
B250	5.2L	1981-91	A727	CR11H, CR11L	119
B250	5.2L	1992-94	A727	CR66	117
B250	5.2L	1981-92	A904	CR9L, CR9H	126
B250	5.9L	1992	A518	CR62	106
B250	5.9L	1993-94	A518	CR64	107
B250	5.9L	1981-91	A727	CR26H, CR26L	119
B250	5.9L	1981-91	A727	CR26H, CR26L	119
B2500	3.9L	1995	A500	CR80	103
B2500	3.9L	1995	A904	CR28	126
B2500	3.9L	1996-97	A904	CR91	126
B2500	5.2L	1995	A518	CR63	107
B2500	5.2L	1996-98	A518	CR94	107
B2500	5.2L	1995	A727	CR66	117
B2500	5.2L	1996-97	A727	CR92	117
B2500	5.9L	1995-98	A518	CR94	107
B350	5.2L	1992-94	A518	CR63	107
B350	5.2L	1981-91	A727	CR11H, CR11L	119
B350	5.2L	1992-93	A727	CR66	117
B350	5.2L	1981-89	A904	CR9L, CR9H	126
B350	5.9L	1992	A518	CR62	106
B350	5.9L	1993-94	A518	CR64	107
B350	5.9L	1981-91	A727	CR26H, CR26L	119
B3500	5.2L	1995	A518	CR63	107
B3500	5.2L	1996-98	A518	CR94	107
B3500	5.9L	1995	A518	CR64	107
B3500	5.9L	1996-98	A518	CR94	107
Caliber (22B Code)	2.0L	2006-12	JF011E	CR33N01	183
Caliber (22C Code)	2.0L	2006-12	JF011E	CR33N02	183
Caravan	2.2L	1984-85	A413, A470, A670	CR35	100
Caravan	2.2L	1986-87	A413, A470, A670	CR39	100
Caravan	2.4L	1996-02	A413, A470, A670	CR42	101
Caravan	2.4L	1996-07	A604	CR42	110
Caravan	2.5L	1988-95	A413, A470, A670	CR42	101
Caravan	2.5L	1989-90	A413, A470, A670	CR40	100
Caravan	2.6L	1984-85	A413, A470, A670	CR35	100
Caravan	2.6L	1986-87	A413, A470, A670	CR39	100
Caravan	3.0L	1987-98	A413, A470, A670	CR42	101
Caravan	3.0L	1988-90	A604	CR44	110
Caravan	3.0L	1991-00	A604	CR42	110
Caravan	3.3L	1990-97	A604	CR42	110
Caravan	3.3L	1990-97	A604	CR44	110
Caravan	3.3L	1990-97	A604	CR45	110
Caravan	3.3L	1998-05	A604	CR85	111
Caravan	3.3L	2007-09	62TE	CR1320	97
Caravan	3.3L	2010-12	62TE	CR1323	97
Caravan	3.8L	1996-97	A604	CR45	110
Caravan	3.8L	1998-99	A604	CR85	111
Caravan	3.8L	2007-09	62TE	CR1320	97
Caravan	3.8L	2010-12	62TE	CR1323	97

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DODGE (Cont.)					
Caravan	4.0L	2007-09	62TE	CR1320	97
Caravan	4.0L	2010-12	62TE	CR1323	97
Charger	2.2L	1987	A413, A470, A670	CR39	100
Charger	2.7L	2005-10	42RLE	CR0621	95
Charger	3.5L	2005-10	42RLE	CR0621	95
Charger	3.5L	2005-10	722.6	CR7801	99
Charger	5.7L	2005-11	722.6	MB18B	99
Conquest	2.6L	1984-86	4N71B	DA14	181
Conquest	2.6L	1984-86	4N71B	DA8	181
Conquest	2.6L	1987-91	4N71B	DA14	181
D100	3.7L	1986-87	A904	CR9H	126
D100	3.9L	1988-89	A904	CR9H	126
D100	5.2L	1978-89	A727	CR11H, CR11L	119
D100	5.2L	1986-89	A904	CR9L, CR9H	126
D100	5.9L	1978-88	A727	CR26H, CR26L	119
D150	3.7L	1978-85	A727	CR11H, CR11L	119
D150	3.7L	1985-92	A904	CR9H	126
D150	3.9L	1993	A500	CR28	105
D150	3.9L	1993	A904	CR28	126
D150	5.2L	1978-91	A727	CR11H, CR11L	119
D150	5.2L	1982-92	A904	CR9L, CR9H	126
D150	5.2L	1992-93	A518	CR63	107
D150	5.9L	1993	A518	CR64	107
D150	5.9L	1978-91	A727	CR26H, CR26L	119
D250	3.7L	1981-85	A727	CR11H, CR11L	119
D250	3.7L	1981-87	A904	CR9H	126
D250	3.9L	1992	A500	CR67	104
D250	3.9L	1993	A904	CR28	126
D250	3.9L	1988-91	A904	CR9H	126
D250	5.2L	1981-90	A904	CR9L, CR9H	126
D250	5.2L	1981-91	A727	CR11H, CR11L	119
D250	5.2L	1992-93	A518	CR63	107
D250	5.9L	1992	A518	CR62	106
D250	5.9L	1993	A518	CR64	107
D250	5.9L	1981-88	A727	CR26H, CR26L	119
D250	5.9L	1989-93	A727	CR27	114
D250	5.9L	1991-93	A518	CR27	106
D350	5.9L	1989-93	A727	CR27	114
D350	5.9L	1991-93	A518	CR27	106
D350	5.9L	1993	A518	CR64	107
D350	5.9L	1992	A518	CR62	106
D400	5.9L	1978-91	A727	CR26H, CR26L	119
Dakota	2.5L	1989	A904	CR9L	126
Dakota	2.5L	1989-02	A500	CR47	104
Dakota	2.6L	1986-89	A44D	TO25	201
Dakota	3.7L	2003-11	42RLE	CR46	95
Dakota	3.7L	2003-11	42RLE	CR0621	95
Dakota	3.9L	1987-89	A904	CR9H	126
Dakota	3.9L	1989-92	A500	CR67	104
Dakota	3.9L	1993-95	A500	CR28	105
Dakota	3.9L	1993-95	A518	CR63	107
Dakota	3.9L	1996-03	A500	CR91	104
Dakota	3.9L	2003-05	42RLE	CR0621	95
Dakota	4.7L	2000-11	45RFE	CR2	96
Dakota	5.2L	1989-93	A500	CR9L	104
Dakota	5.2L	1992-95	A518	CR63	107
Dakota	5.2L	1996	A518	CR94	107
Dakota	5.2L	1997-99	A500	CR93	105
Dakota	5.7L	2001-04	45RFE	CR2A	96
Dakota	5.9L	1998-03	A518	CR94	107
Dakota	5.9L	2001-04	45RFE	CR2	96
Daytona	2.2L	1984-85	A413, A470, A670	CR35	100
Daytona	2.2L	1986-87	A413, A470, A670	CR39	100

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DODGE (Cont.)					
Daytona	2.2L	1988-93	A413, A470, A670	CR42	101
Daytona	2.5L	1986-87	A413, A470, A670	CR39	100
Daytona	2.5L	1991	A604	CR42	110
Daytona	3.0L	1990	A604	CR44	110
Daytona	3.0L	1991-93	A604	CR42	110
Daytona	2.5L	1988-93	A413, A470, A670	CR42	101
Daytona	2.5L	1988-93	A413, A470, A670	CR40	100
Diplomat	5.2L	1978-89	A904	CR9L, CR9H	126
Durango	3.7L	2004-08	42RLE	CR0621	95
Durango	3.9L	1998-99	A500	CR91	104
Durango	4.7L	2000-05	45RFE	CR2	96
Durango	4.7L	2003	45RFE	CR2A	96
Durango	5.2L	1998-00	A500	CR91	104
Durango	5.2L	2000-05	45RFE	CR2	96
Durango	5.7L	2004-05	45RFE	CR2A	96
Durango	5.9L	1998-03	A518	CR94	107
Dynasty	2.5L	1993-98	A413, A470, A670	CR42	101
Dynasty	3.0L	1988	A413, A470, A670	CR42	101
Dynasty	3.0L	1988-90	A604	CR44	110
Dynasty	3.0L	1991-93	A604	CR42	110
Dynasty	3.3L	1990-93	A604	CR44	110
Grand Caravan	2.4L	1996-97	A413, A470, A670	CR42	101
Grand Caravan	2.4L	1996-97	A604	CR42	110
Grand Caravan	2.5L	1988	A413, A470, A670	CR42	101
Grand Caravan	3.0L	1988-89	A604	CR44	110
Grand Caravan	3.0L	1992-97	A413, A470, A670	CR42	101
Grand Caravan	3.0L	1992-97	A604	CR42	110
Grand Caravan	3.0L	1998-00	A604	CR88	111
Grand Caravan	3.3L	1990-97	A604	CR45	110
Grand Caravan	3.3L	1990-97	A604	CR44	110
Grand Caravan	3.3L	1998-06	A604	CR85	111
Grand Caravan	3.3L	2001-05	A604	CR85	111
Grand Caravan	3.8L	1994-97	A604	CR45	110
Grand Caravan	3.8L	1998-05	A604	CR85	111
Grand Caravan	3.8L	2007-09	62TE	CR1320	97
Grand Caravan	3.8L	2010-12	62TE	CR1323	97
Grand Caravan	4.0L	2007-09	62TE	CR1320	97
Grand Caravan	4.0L	2010-12	62TE	CR1323	97
Intrepid	2.7L	1998-04	A606	CR86	112
Intrepid	3.2L	1998-01	A606	CR86	112
Intrepid	3.3L	1993-97	A606	CR46	112
Intrepid	3.5L	1993-97	A606	CR46	112
Intrepid	3.5L	2000-04	A606	CR86	112
Journey	2.4L	2008-11	A604	CR0920	111
Journey	3.5L	2009-11	62TE	CR1320	97
Journey	3.5L	2009-11	62TE	CR1323	97
Lancer	2.2L	1985	A413, A470, A670	CR35	100
Lancer	2.2L	1986-87	A413, A470, A670	CR39	100
Lancer	2.2L	1988-89	A413, A470, A670	CR42	101
Lancer	2.5L	1986-87	A413, A470, A670	CR39	100
Lancer	2.5L	1988-89	A413, A470, A670	CR40, CR42	101
Magnum	2.7L	2005-08	42RLE	CR0621	95
Magnum	2.7L	2005-08	722.6	CR7801	99
Magnum	3.5L	2005-08	722.6	CR7801	99
Magnum	3.5L	2005-08	722.6	MB18B	99
Magnum	5.7L	2005-08	722.6	MB18B	99
Mini Ram	2.2L	1984-85	A413, A470, A670	CR35	100
Mini Ram	2.2L	1986-87	A413, A470, A670	CR39	100
Mini Ram	2.5L	1988	A413, A470, A670	CR42	101
Mini Ram	2.6L	1984-85	A413, A470, A670	CR35	100
Mini Ram	2.6L	1986-87	A413, A470, A670	CR39	100
Mini Ram	3.0L	1987-88	A413, A470, A670	CR42	101
Neon	2.0L	1995-01	A413, A470, A670	CR88	101

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Neon	2.0L	1995-01	A413, A470, A670	CR73	101
Neon	2.0L	2002-05	A604	CR73	110
Neon	2.0L	2002-05	A604	CR42	110
Nitro	3.7L	2007-11	42RLE	CR0621	95
Nitro	4.0L	2007-10	722.6	CR7801	99
Omni	1.6L	1983-85	A413, A470, A670	CR35	100
Omni	1.6L	1986	A413, A470, A670	CR39	100
Omni	2.2L	1981-85	A413, A470, A670	CR35	100
Omni	2.2L	1986-87	A413, A470, A670	CR39	100
Omni	2.2L	1988-90	A413, A470, A670	CR42	101
Raider	2.6L	1987-89	03-72 (A44D)	TO25	201
Raider	3.0L	1989	03-72 (A44D)	TO47	203
Ram	3.0L	1986-90	A44D	TO25	201
Ram 1500	3.7L	2002-05	45RFE	CR2	96
Ram 1500	3.9L	1994-95	A500	CR28	105
Ram 1500	3.9L	1994-95	A518	CR63	107
Ram 1500	3.9L	1994-95	A904	CR28	126
Ram 1500	3.9L	1996-01	A500	CR91	104
Ram 1500	4.7L	2002-07	45RFE	CR2	96
Ram 1500	5.2L	1988	A727	CR10L	116
Ram 1500	5.2L	1994-95	A518	CR63	107
Ram 1500	5.2L	1996-01	A518	CR94	107
Ram 1500	5.7L	2003-08	45RFE	CR2A	96
Ram 1500	5.9L	1994-95	A518	CR64	107
Ram 1500	5.9L	1996-03	A518	CR94	107
Ram 1500 Van	3.9L	1999-03	A904	CR91	126
Ram 1500 Van	5.2L	1999-03	A518	CR94	107
Ram 1500 Van	5.9L	1999-03	A518	CR94	107
Ram 2500	5.2L	1994-95	A518	CR63	107
Ram 2500	5.2L	1996	A518	CR94	107
Ram 2500	5.7L	2003-05	45RFE	CR2A	96
Ram 2500	5.9L	1994-95	A518	CR64	107
Ram 2500	5.9L	1996-02	A518	CR94	107
Ram 2500	5.9L	1995-02	A618	CR70	108
Ram 2500	5.9L	2003-07	48RE	CR70X	108
Ram 2500	5.9L	2006-08	68RFE	CR7201	98
Ram 2500	5.9L	2009-12	68RFE	CR7202	98
Ram 2500	6.7L	2003-07	48RE	CR70X	108
Ram 2500	6.7L	2006-08	68RFE	CR7201	98
Ram 2500	6.7L	2009-12	68RFE	CR7202	98
Ram 2500	6.7L	2007-11	AS68RC	CR9901	127
Ram 2500	8.0L	1995-02	A618	CR65	107
Ram 2500 Van	3.9L	2001	A904	CR91	126
Ram 2500 Van	5.2L	1996	A518	CR92	106
Ram 2500 Van	5.2L	1996	A727	CR92	117
Ram 2500 Van	5.2L	1999-03	A518	CR94	107
Ram 2500 Van	5.9L	1999-03	A518	CR94	107
Ram 3500	5.7L	2005-06	45RFE	CR2A	96
Ram 3500	5.9L	1994-95	A518	CR64	107
Ram 3500	5.9L	1996-02	A518	CR94	107
Ram 3500	6.7L	2006-08	68RFE	CR7201	98
Ram 3500	6.7L	2009-12	68RFE	CR7202	98
Ram 3500	6.7L	2006-11	AS68RC	CR9901	127
Ram 3500	8.0L	1995-02	A618	CR65	107
Ram 3500 Van	5.2L	1999-03	A518	CR94	107
Ram 3500 Van	5.9L	1999-03	A518	CR94	107
Ram 50	2.0L	1987-88	03-72 (A44D)	TO25	201
Ram 50	2.4L	1990-93	A500	CR47	104
Ram 50	2.6L	1983-86	A904	CR36	120
Ram 50	2.6L	1987-89	03-72 (A44D)	TO25	201
Ram 50	3.0L	1990-91	A500	CR47	104
Ramcharger	5.2L	1992	A518	CR61	106
Ramcharger	5.2L	1992-93	A518	CR63	107

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Ramcharger	5.2L	1978-91	A727	CR11H, CR11L	119
Ramcharger	5.2L	1988-89	A904	CR9H	126
Ramcharger	5.9L	1978-91	A727	CR26H	119
Ramcharger	5.9L	1992	A518	CR62	106
Ramcharger	5.9L	1993	A518	CR64	107
Royal Mini Ram	2.2L	1984-85	A413, A470, A670	CR35	100
Royal Mini Ram	2.2L	1986-87	A413, A470, A670	CR39	100
Royal Mini Ram	2.6L	1984-85	A413, A470, A670	CR35	100
Royal Mini Ram	2.6L	1986-87	A413, A470, A670	CR39	100
Royal Mini Ram	3.0L	1987	A413, A470, A670	CR42	101
Shadow	2.2L	1987	A413, A470, A670	CR39	100
Shadow	2.2L	1988-90	A413, A470, A670	CR40	100
Shadow	2.2L	1988-94	A413, A470, A670	CR42	101
Shadow	2.5L	1988-94	A413, A470, A670	CR42	101
Shadow	2.5L	1989-90	A413, A470, A670	CR40	100
Shadow	3.0L	1992-94	A604	CR42	110
Spirit	2.5L	1989-90	A413, A470, A670	CR40	100
Spirit	2.5L	1989-95	A413, A470, A670	CR42	101
Spirit	3.0L	1989-90	A604	CR44	110
Spirit	3.0L	1991-95	A604	CR42	110
Spirit	3.0L	1992-95	A413, A470, A670	CR42	101
Sprinter	2.7L	2002-06	722.6	MB18	164
Sprinter	2.9L	2003-05	722.6	MB18	164
Sprinter	3.0L	2007-09	722.6	MB22	165
Stealth	3.0L	1991-96	KM175, F4A33	KM16HD, KM16BHD	171
Stratus	2.0L	1995-00	A604	CR42	110
Stratus	2.4L	1995-04	A604	CR73	110
Stratus	2.4L	1995-04	A604	CR88	111
Stratus	2.4L	1995-04	A604	CR42	110
Stratus	2.4L	2001-05	F4A42	KM24	173
Stratus	2.4L	2001-05	F4A42	KM27	173
Stratus	2.5L	1995-00	A604	CR42	110
Stratus	2.7L	2001-04	A604	CR85	111
Stratus	2.7L	2003	A604	CR0923	111
Stratus	2.7L	2003	A604	CR73	110
Stratus	2.7L	2005	A604	CR42	110
Stratus	3.0L	1993	KM175, F4A33	KM16HD, KM16BHD	171
Stratus	3.0L	2001-05	F4A51	KM28	174
Stratus	3.0L	2001-05	F4A51	KM17	172
W100	3.7L	1986-87	A727	CR11H, CR11L	119
W100	3.7L	1997	A727	CR10H	116
W100	3.9L	1989	A727	CR11H, CR11L	119
W100	5.2L	1986-89	A727	CR11H, CR11L	119
W100	5.9L	1986-88	A727	CR26H	119
W150	3.7L	1978-87	A727	CR11H, CR11L	119
W150	3.9L	1989-91	A727	CR11H, CR11L	119
W150	3.9L	1992	A518	CR63	107
W150	3.9L	1993	A518	CR63	107
W150	5.2L	1978-91	A727	CR11H, CR11L	119
W150	5.2L	1992	A518	CR61	106
W150	5.2L	1992-93	A518	CR63	107
W150	5.9L	1978-91	A727	CR26H	119
W150	5.9L	1993	A518	CR64	107
W250	5.2L	1981-91	A727	CR11H, CR11L	119
W250	5.2L	1992	A518	CR61	106
W250	5.2L	1993	A518	CR63	107
W250, W350	5.9L	1981-92	A727	CR26H	119
W250, W350	5.9L	1989-93	A727	CR27	114
W250, W350	5.9L	1992	A518	CR62	106
W250, W350	5.9L	1993	A518	CR64	107
EAGLE					
Summit	1.6L	1989-90	KM	KM11HD	170
Summit	1.5L	1990-93	KM	KM12HD, KM12BHD	146

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EAGLE (Cont.)					
Talon	1.5L	1990-91	KM	KM12HD, KM12BHD	146
Talon	1.8L	1990-94	KM	KM12HD, KM12BHD	146
Talon	2.0L	1990-94	KM	KM12HD, KM12BHD	146
Talon	2.0L	1990-98	KM	KM14, KM14B	171
Talon	2.0L	1992-98	KM	KM16CHD	171
Vision	3.3L	1993-97	A606	CR46	112
Vision	3.5L	1993-97	A606	CR46	112
FORD					
Aerostar	2.3L	1986-87	A4LD, 4R44E	FM136HD	64
Aerostar	2.8L	1986	A4LD, 4R44E	FM136HD	64
Aerostar	3.0L	1986-97	4R44E	FM136HD	55
Aerostar	4.0L	1990-97	4R55E	FM68HD	55
Blackwood	5.4L	2001	4R100	FM64	84
Blackwood	5.4L	2001	4R100	FM64X	84
Bronco	2.9L	1989	A4LD	FM76HD	64
Bronco	2.9L	1989	A4LD	FM136HD	64
Bronco	4.9L	1985-93	AOD	FM55	65
Bronco	4.9L	1985-93	AOD	FM55B	65
Bronco	5.0L	1985-93	AOD	FM55B	65
Contour	2.0L	1994-00	CD4E	FM80	80
Contour	2.5L	1994-00	CD4E	FM75	80
Cougar	3.8L	1994-95	4R70W	FM69H	67
Cougar	3.8L	1996-97	4R70W	FM69	67
Cougar	4.6L	1994-97	4R70W	FM69	67
Country Squire	5.0L	1987-91	AOD	FM55B	65
Crown Victoria	4.6L	1994	AODE	FM69H	67
Crown Victoria	4.6L	1995-07	4R70W	FM69	67
Crown Victoria	4.6L	1995-07	4R70W	FM70	66
E-150	4.2L	1997-03	4R70W	FM69	67
E-150	4.2L	1997-03	AOD-E	FM69C	67
E-150	4.6L	1997-03	4R70W	FM69	67
E-150	4.6L	2004-06	4R75W	FM69H	67
E-150	4.6L	2005-06	4R75E	FM69	67
E-150	5.0L	1994-96	4R70W	FM69	67
E-150	5.4L	1999-04	4R70W	FM69L	66
E-250	4.2L	1997-03	4R70W	FM69	67
E-250	4.6L	2003-06	4R70W	FM69	67
E-250	4.6L	2007	5R110W	FM160M	58
E-250	5.4L	1999-06	4R70W	FM69L	66
E-250	5.4L	2002-04	4R100	FM64	84
E-250	7.3L	1988-91	C-6	FM126DS	79
E-250	7.3L	1990-94	E4OD	FM64L	84
E-350	5.4L	2002-04	4R100	FM64	84
E-350	5.4L	2002-06	4R70W	FM69L	66
E-350	5.4L	2005-06	5R110W	FM160M	58
E-350	6.0L	2004-06	5R110W	FM160L	58
E-350	6.8L	1997-98	E4OD	FM64L	84
E-350	6.8L	1999-00	4R100	FM64L	84
E-350	6.8L	2000-04	4R100	FM64R	85
E-350	6.8L	2005-06	5R110W	FM160L	58
E-350	7.3L	1988-91	C-6	FM126DS	79
E-350	7.3L	1989-94	E4OD	FM64L	84
E-350	7.3L	1995-98	E4OD	FM64R	85
E-350	7.3L	1998-03	4R100	FM64R	85
E-450	6.0L	2004-05	5R110W	FM160L	58
E-450	6.8L	2003-04	4R100	FM64R	85
E-450	6.8L	2005	5R110W	FM160L	58
E-450	7.3L	2003	4R100	FM64R	85
E-550	6.8L	2003	4R100	FM64R	85
E-550	7.3L	2003	4R100	FM64R	85
Edge	2.0L	2008-12	6F35	FM1441	60
Edge (7L7 Code)	3.5L	2007-12	6F50, 6F55	FM1241	61
Edge (9F8 Code)	3.5L	2007-12	6F50, 6F55	FM1242	61

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Edge (7L7 Code)	3.7L	2007-12	6F50, 6F55	FM1241	61
Edge (9F8 Code)	3.7L	2007-12	6F50, 6F55	FM1242	61
Escape	2.0L	2008-12	6F35	FM1441	60
Escape	2.3L	2005-08	CD4E	FM89L	80
Escape	2.3L	2005-08	CD4E	FM89	80
Escape	3.0L	2001-08	CD4E	FM89L	80
Escape	3.0L	2001-08	CD4E	FM89	80
Escort	1.9L	1991-96	F4A-EL	DA17A	153
Escort	1.9L	1991-96	F4A-EL	DA18	153
Escort	2.0L	1990-03	F4A-EL	DA30	153
Escort LX	2.0L	1990-03	G4A-EL	DA18	153
Excursion	5.4L	2000-04	4R100	FM64	84
Excursion	5.4L	2000-04	4R100	FM64X	84
Excursion	6.0L	2003-05	5R110W	FM160L	58
Excursion	6.8L	2000	E4OD	FM64L	84
Excursion	6.8L	2000	E4OD	FM64LX	84
Excursion	6.8L	2000-05	4R100	FM64R	85
Excursion	7.3L	2000-03	4R100	FM64R	85
Expedition	4.6L	1997-00	4R70W	FM69H	67
Expedition	4.6L	1997-00	4R70W	FM69C	67
Expedition	4.6L	1997-00	4R70W	FM69L	66
Expedition	4.6L	2001-04	4R70W	FM69	67
Expedition	5.4L	1997-03	E4OD	FM64	84
Expedition	5.4L	1997-03	E4OD	FM64X	84
Expedition	5.4L	1998-02	4R100	FM64	84
Expedition	5.4L	2003	4R70W	FM69L	66
Expedition	5.4L	2004-06	4R75W	FM69	67
Expedition	5.4L	2006	4R75E	FM69H	67
Expedition	5.4L	2007-08	6R75	FM9502	62
Expedition	5.4L	2009-12	6R80	FM9501	62
Explorer	2.0L	2010-12	6F35	FM1441	60
Explorer (7L7 Code)	3.5L	2010-12	6F50, 6F55	FM1241	61
Explorer (9F8 Code)	3.5L	2010-12	6F50, 6F55	FM1242	61
Explorer	4.0L	1991-94	A4LD	FM68HD	64
Explorer	4.0L	1995-00	4R55E, 5R55E	FM68HD	55
Explorer	4.0L	2002-03	5R55W	FM138-8	56
Explorer	4.0L	2002-03	5R55W	FM68HD	57
Explorer	4.0L	2004-05	5R55S	FM68HD	57
Explorer	4.6L	2001-03	5R55W	FM138-8	56
Explorer	4.6L	2002-05	5R55S	FM138-8	56
Explorer	4.6L	2004-05	5R55S	FM68HD	57
Explorer (Incl. Sport Trac)	5.4L	2005-10	6R60, 6R75	FM9502	62
Explorer	5.0L	1996-01	4R70W	FM69H	67
Explorer Sport	4.0L	2001-03	5R55E	FM68HD	55
Explorer Sport Trac	4.0L	2001-05	5R55E	FM68HD	55
F-150	3.8L	2004	4R75W	FM69H	67
F-150	4.2L	1996-07	4R70W	FM69	67
F-150	4.2L	2001-03	4R70W	FM69	67
F-150	4.2L	2001-03	4R70W	FM69C	67
F-150	4.2L	2001-03	4R70W	FM69H	67
F-150	4.2L	2004-07	4R75W	FM69	67
F-150	4.6L	1996-98	4R70W	FM69H	67
F-150	4.6L	1999-06	4R70W	FM69	67
F-150	5.0L	1986	C-6	FM127	79
F-150	5.0L	1994-96	4R70W	FM69	67
F-150	5.0L	1995	4R70W	FM69C	67
F-150	5.0L	1996	E4OD	FM64	84
F-150	5.4L	1998	E4OD	FM64	84
F-150	5.4L	1998-04	4R100	FM64	84
F-150	5.4L	1999-03	4R70W	FM69L	66
F-150	5.4L	2000-04	4R100	FM64R	85
F-150	5.4L	2004-08	4R75W	FM69L	66
F-150	5.4L	2004-08	4R75W	FM69H	67

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F-150	5.4L	2006	4R75W	FM69	67
F-150	5.8L	1992	E4OD	FM64	84
F-150	6.4L	2005	5R110W	FM1603	58
F-250	4.2L	1998	4R70W	FM69	67
F-250	4.6L	1997-99	4R70W	FM69H	67
F-250	4.9L	1993	E4OD	FM64L	84
F-250	4.9L	1981-93	C-6	FM128	78
F-250	5.0L	1992-93	E4OD	FM64	84
F-250	5.4L	2001	4R70W	FM69L	66
F-250	5.4L	2001-04	4R100	FM64	84
F-250	5.4L	2005-07	5R110W	FM160M	58
F-250	6.0L	2003-06	5R110W	FM160L	58
F-250	6.2L	2010-12	6R140	FM1261	63
F-250	6.4L	2005	5R110W	FM1603	58
F-250	6.7L	2010-12	6R140	FM1262	63
F-250	6.8L	1999	4R100	FM64L	84
F-250	6.8L	2000-04	4R100	FM64R	85
F-250	6.8L	2005	5R110W	FM160L	58
F-250	6.9L	1985	C-6	FM126DS	79
F-250	7.3L	1988-90	C-6	FM126DS	79
F-250	7.3L	1989-94	E4OD	FM64L	84
F-250	7.3L	1995-97	E4OD	FM64R	85
F-250	7.3L	1999-03	4R100	FM64R	85
F-350	5.4L	2001-04	4R100	FM64	84
F-350	5.4L	2005	5R110W	FM160M	58
F-350	6.0L	2003-06	5R110W	FM160L	58
F-350	6.2L	2010-12	6R140	FM1261	63
F-350	6.4L	2008	5R110W	FM1603	58
F-350	6.7L	2010-12	6R140	FM1262	63
F-350	6.8L	1999-04	4R100	FM64R	85
F-350	6.8L	2005	5R110W	FM160L	58
F-350	7.3L	1988-90	C-6	FM126DS	79
F-350	7.3L	1989-94	E4OD	FM64L	84
F-350	7.3L	1995-97	E4OD	FM64R	85
F-350	7.3L	1996	E4OD	FM64Q	85
F-350	7.3L	1999-03	4R100	FM64R	85
F450	6.8L	1999	E4OD	FM64L	84
F450	6.8L	1999	E4OD	FM64LX	84
F450	6.8L	1999-04	4R100	FM64R	85
F450	6.8L	2005	5R110W	FM160L	58
F450	7.3L	1999-03	4R100	FM64R	85
F450	7.5L	1995	E4OD	FM64R	85
F-550	6.0L	2003-06	5R110W	FM160L	58
F-550	6.4L	2008	5R110W	FM1603	58
F-550	6.8L	1999-04	4R100	FM64R	85
F-550	6.8L	2005	5R110W	FM160L	58
F-550	7.3L	1999-03	4R100	FM64R	85
Five Hundred	3.0L	2005-07	CFT30	FM3301	81
Five Hundred	3.0L	2005-07	AF21, TF-81SC	FM3902	88
Flex (7L7 Code)	3.5L	2008-12	6F50, 6F55	FM1241	61
Flex (9F8 Code)	3.5L	2008-12	6F50, 6F55	FM1242	61
Focus	1.6L	2000-08	FN4A-EL, 4F27E	DA54	156
Focus	2.0L	2000-08	FN4A-EL, 4F27E	DA54	156
Focus	2.3L	2000-08	FN4A-EL, 4F27E	DA54	156
Freestar	3.9L	2004-06	AX4N, 4F50N	FM90LS	71
Freestar	4.2L	2004-07	4F50N	FM90LS	71
Freestyle	3.0L	2005-07	CFT30	FM3301	81
Freestyle	3.0L	2005-07	AF21, TF-81SC	FM3902	88
Fusion	2.0L	2008-12	6F35	FM1441	60
Fusion	2.3L	2006-08	FNR5	FM4800	158
Fusion	3.0L	2006-09	AF21, TF-81SC	FM3901	88
Fusion (7L7 Code)	3.5L	2009-12	6F50, 6F55	FM1241	61
Fusion (9F8 Code)	3.5L	2009-12	6F50, 6F55	FM1242	61

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FORD (Cont.)					
Mustang	2.3L	1993	A4LD	FM68HD	64
Mustang	3.8L	2000	4R70W	FM69C	67
Mustang	3.8L	1994-03	4R70W	FM69H	67
Mustang	3.8L	1996-97	4R70W	FM69	67
Mustang	4.0L	2005-06	5R55E	FM4600	57
Mustang	4.0L	2003-07	5R55S, 5R55W	FM4600	57
Mustang	4.6L	2003-07	5R55S, 5R55W	FM138-8	56
Mustang	5.0L	1994	AODE	FM69	67
Mustang GT	4.6L	1996-03	4R70W	FM70	66
Mustang GT	5.0L	1994-95	AODE	FM69H	67
Navigator	5.4L	1997-99	E4OD	FM64	84
Navigator	5.4L	1997-99	E4OD	FM64X	84
Navigator	5.4L	1999-04	4R100	FM64	84
Navigator	5.4L	1999-04	4R100	FM64X	84
Probe	2.0L	1989	G4A	FM65	154
Probe	2.0L	1993	F4A-EL	DA30	153
Probe	2.0L	1991-93	G4A-EL	DA18	153
Probe	2.0L	1993-97	G4A-EL	FM84	154
Probe	2.0L	1994-97	CD4E	FM80	80
Probe	2.2L	1988-92	G4A-EL	FM65	154
Probe	2.5L	1992-94	G4A-EL	FM85	155
Probe	3.0L	1989-90	G4A-EL	FM65	154
Probe	3.0L	1989-93	G4A-EL	FM65A	154
Probe	3.0L	1990-97	G4A-EL	FM86	154
Ranger	2.0L	1984-88	A4LD	FM136HD	64
Ranger	2.3L	1996-05	4R44E, 5R44E	FM136HD	55
Ranger	2.5L	1998-99	4R44E	FM136HD	55
Ranger	2.5L	2000-01	4R44E	FM136HD	55
Ranger	3.0L	1993	A4LD	FM136HD	64
Ranger	3.0L	2000-08	4R44E	FM136HD	55
Ranger	3.0L	2001-03	5R44E	FM134HD	55
Ranger	3.0L	2002-06	5R44E	FM136HD	55
Ranger	4.0L	1996-07	4R55E, 5R55E	FM68HD	55
Taurus	3.0L	1986-90	AXOD	FM61	69
Taurus	3.0L	1991	AX4S	FM61	69
Taurus	3.0L	1992-93	AX4S, AX4N	FM61R	69
Taurus	3.0L	1994-03	AX4S, AX4N	FM71	70
Taurus	3.0L	1998-03	AX4N	FM71H	70
Taurus	3.0L	1998	AX4S	FM71	70
Taurus	3.0L	1999-03	AX4S, AX4N	FM71H	70
Taurus	3.0L	2004-07	AX4N, 4F50N	FM90	71
Taurus	3.2L	1993-95	AX4S	FM59	70
Taurus	3.4L	1995	AX4S	FM59	70
Taurus	3.4L	1996	AX4N	FM59A	70
Taurus	3.4L	1997	AX4N	FM59	70
Taurus	3.4L	1997	AX4N	FM59A	70
Taurus	3.4L	1998-99	AX4N	FM59A	70
Taurus	3.8L	1990-91	AX4S	FM61C	69
Taurus	3.8L	1992-95	AX4S	FM61	69
Taurus	3.8L	1992-95	AX4S	FM61M	69
Taurus	3.8L	1994-95	AX4S	FM71	70
Taurus	3.8L	1994-95	AX4S	FM71C	70
Taurus	3.8L	1999	AX4N	FM71H	70
Taurus	3.8L	1988-90	AXOD	FM61C	69
Taurus	3.8L	1992-93	AX4S	FM61M	69
Taurus	3.8L	1994-95	AX4S	FM71C	70
Taurus SHO	3.0L	1992-93	AX4S	FM60	69
Taurus SHO	3.2L	1993-95	AX4S	FM60	69
Taurus SHO	3.2L	1994-95	AX4S	FM59	70
Taurus SHO	3.4L	1996-99	AX4N	FM59	70
Taurus SHO	3.4L	1999	AX4N	FM59A	70
Thunderbird	3.8L	1991	AOD	FM55B	65
Thunderbird	3.8L	1994-97	4R70W	FM69H	67

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Thunderbird	3.8L	1994-97	4R70W	FM69	67
Thunderbird	3.8L	1994-95	4R70W	FM69L	66
Thunderbird	3.9L	2002	5R55N	FM138-8	56
Thunderbird	3.9L	2003-05	5R55S	FM138-8	56
Thunderbird	4.6L	1994-97	4R70W	FM69	67
Tribute	2.3L	2004-06	CD4E	FM89L	80
Tribute	3.0L	2000-03	CD4E	FM89	80
Tribute	3.0L	2004-06	CD4E	FM89L	80
Windstar	3.0L	1994-00	AX4S	FM71	70
Windstar	3.0L	1998-00	AX4S	FM71H	70
Windstar	3.8L	1994-01	AX4S	FM71	70
Windstar	3.8L	1994-01	AX4S	FM71C	70
Windstar	3.8L	1994-01	AX4S	FM71H	70
Windstar	3.8L	2001-03	AX4N	FM71	70
GEO					
Metro	1.3L	1989-01	MX17	TO30	207
Metro	1.3L	1989-01	MX17	TO29	207
Prizm	1.6L	1989-91	KM176, F4A21	KM11HD	170
Prism	1.6L	1992-94	A130, MX1	TO33	208
Prism	1.8L	2000	A245E	TO19	208
Storm	1.8L	1990-92	JF403E	DA20	186
Tracker	1.6L	1995	3L30	GM83	10
Tracker	1.6L	1996-97	A44DE	TO23	203
Tracker	2.0L	2000-01	A44DE	TO37	202
Tracker	2.5L	2001	A44DE	TO39	202
GMC					
C1500, C2500, C3500	4.3L	1985-90	400	GM3	17
C1500, C2500, C3500	4.3L	1985-86	700-R4	GM18AH	27
C1500, C2500, C3500	4.3L	1988-93	700-R4	GM18A	27
C1500, C2500, C3500	4.3L	1989	700-R4	GM18AL	27
C1500, C2500, C3500	4.3L	1993-94	4L60E	GM18A	27
C1500, C2500, C3500	4.3L	1995-97	4L60E	GM35	28
C1500, C2500, C3500	4.3L	1998	4L60E	GM35CW	28
C1500, C2500, C3500	4.3L	1999-02	4L60E	GM90	29
C1500, C2500, C3500	4.3L	1991-97	4L80E	GM82	30
C1500, C2500, C3500 (Incl. Suburban)	4.8L	1979-86	400	GM3	17
C1500, C2500, C3500 (Incl. Suburban)	4.8L	1999-05	4L60E	GM90	29
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1980-86	350C	GM16AL	16
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1980-90	400	GM3	17
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1984-86	700-R4	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1984-92	700-R4	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1993-95	4L60E	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1996-97	4L60E	GM33	28
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1998-00	4L60E	GM33CW	28
C1500, C2500, C3500 (Incl. Suburban)	5.0L	1991-94	4L80E	GM81	30
C1500, C2500, C3500 (Incl. Suburban)	5.3L	1999-02	4L60E	GM92	29
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1979-90	400	GM3	17
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1984-95	700-R4	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1993-96	4L60E	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1996-99	4L60E	GM33	28
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1998-99	4L60E	GM33CW	28
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1991-97	4L80E	GM82	30
C1500, C2500, C3500 (Incl. Suburban)	5.7L	1991-00	4L80E	GM88	31
C1500, C2500, C3500 (Incl. Suburban)	6.0L	1999-05	4L60E	GM92	29
C1500, C2500, C3500 (Incl. Suburban)	6.0L	2000-02	4L80E	GM88H	31
C1500, C2500, C3500 (Incl. Suburban)	6.2L	1986	350C	GM16AL	16
C1500, C2500, C3500 (Incl. Suburban)	6.2L	1982-90	400	GM6	18
C1500, C2500, C3500 (Incl. Suburban)	6.2L	1984-93	700-R4	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	6.2L	1991-93	4L80E	GM82	30
C1500, C2500, C3500 (Incl. Suburban)	6.2L	1991-95	4L80E	GM88	31
C1500, C2500, C3500 (Incl. Suburban)	6.5L	1992-95	700-R4	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	6.5L	1994-95	4L60E	GM18AL	27
C1500, C2500, C3500 (Incl. Suburban)	6.5L	1992-97	4L80E	GM81	30

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C1500, C2500, C3500 (Incl. Suburban)	6.5L	1998-02	4L80E	GM88	31
C1500, C2500, C3500 (Incl. Suburban)	6.5L	1998-00	4L80E	GM88	31
C1500, C2500, C3500 (Incl. Suburban)	6.6L	2001-07	1000, 2000, 2400	A7X	48
C1500, C2500, C3500 (Incl. Suburban)	7.4L	1979-86	400	GM6	18
C1500, C2500, C3500 (Incl. Suburban)	7.4L	1991-97	4L80E	GM81	30
C1500, C2500, C3500 (Incl. Suburban)	7.4L	1998-00	4L80E	GM88	31
C1500, C2500, C3500 (Incl. Suburban)	8.1L	2001-07	1000, 2000, 2400	A7XH	48
Caballero	4.3L	1985-87	200-4R	GM15	12
Caballero	4.3L	1985-87	200C	GM15	12
Caballero	4.3L	1985-87	700-R4	GM18A	27
Caballero	5.0L	1987	200C	GM15AL	12
Caballero	5.0L	1987	700-R4	GM18AL	27
Canyon	2.8L	2004-06	4L60E	GM58CWH	25
Canyon	2.9L	2007-09	4L60E	GM58CWH	25
Canyon	3.5L	2004-06	4L60E	GM56	25
Canyon	3.7L	2007-08	4L60E	GM56	25
Envoy	4.2L	2002-07	4L60E	GM55	29
Envoy	5.3L	2004	4L60E	GM92	29
G1500, G2500, G3500	4.3L	1985-90	400	GM3	17
G1500, G2500, G3500	4.3L	1985-92	700-R4	GM18A	27
G1500, G2500, G3500	4.3L	1993-94	4L60E	GM18A	27
G1500, G2500, G3500	4.3L	1995	4L60E	GM35	28
G1500, G2500, G3500	4.3L	1991-97	4L80E	GM82	30
G1500, G2500, G3500	5.0L	1987	400	GM3	17
G1500, G2500, G3500	5.0L	1987	700-R4	GM18AL	27
G1500, G2500, G3500	5.7L	1987	400	GM3	17
G1500, G2500, G3500	5.7L	1987	700-R4	GM18AL	27
G1500, G2500, G3500	6.2L	1987	400	GM6	18
G1500, G2500, G3500	6.2L	1987	700-R4	GM18AL	27
Jimmy	4.3L	1995-97	4L60E	GM35	28
Jimmy	4.3L	1998-05	4L60E	GM35CW	28
Jimmy	5.0L	1987	700-R4	GM18AL	27
Jimmy	5.7L	1987	700-R4	GM18AL	27
Jimmy	6.2L	1987	700-R4	GM18AL	27
K1500, K2500, K3500	4.3L	1985-90	400	GM3	17
K1500, K2500, K3500	4.3L	1985-93	700-R4	GM18A	27
K1500, K2500, K3500	4.3L	1991-93	700-R4	GM18AL	27
K1500, K2500, K3500	4.3L	1993-95	4L60E	GM18A	27
K1500, K2500, K3500	4.3L	1996-97	4L60E	GM35	28
K1500, K2500, K3500	4.3L	1998	4L60E	GM35CW	28
K1500, K2500, K3500	4.3L	1999-02	4L60E	GM90	29
K1500, K2500, K3500	4.3L	1991-97	4L80E	GM82	30
K1500, K2500, K3500	4.8L	1999-05	4L60E	GM90	29
K1500, K2500, K3500	5.0L	1989-95	700-R4	GM18AL	27
K1500, K2500, K3500	5.0L	1996-97	4L60E	GM33	28
K1500, K2500, K3500	5.0L	1998-00	4L60E	GM33CW	28
K1500, K2500, K3500	5.3L	1999-02	4L60E	GM92	29
K1500, K2500, K3500	5.7L	1993-95	4L60E	GM18AL	27
K1500, K2500, K3500	5.7L	1996-97	4L60E	GM33	28
K1500, K2500, K3500	5.7L	1998-00	4L60E	GM35CW	28
K1500, K2500, K3500	5.7L	1991-00	4L80E	GM88	31
K1500, K2500, K3500	5.7L	1993-97	4L80E	GM82	30
K1500, K2500, K3500	5.7L	1989-95	700-R4	GM18AL	27
K1500, K2500, K3500	6.0L	1999-05	4L60E	GM92	29
K1500, K2500, K3500	6.0L	2000-02	4L80E	GM88H	31
K1500, K2500, K3500	6.2L	1992-93	700-R4	GM18AL	27
K1500, K2500, K3500	6.2L	1993	4L60E	GM18AL	27
K1500, K2500, K3500	6.2L	1991-95	4L80E	GM88	31
K1500, K2500, K3500	6.5L	1992-93	700-R4	GM18AL	27
K1500, K2500, K3500	6.5L	1993-95	4L60E	GM18AL	27
K1500, K2500, K3500	6.5L	1995	4L60E	GM33	28
K1500, K2500, K3500	6.5L	1996-97	4L80E	GM81	30
K1500, K2500, K3500	6.6L	2001-07	1000, 2000, 2400	A7X	48

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K1500, K2500, K3500	7.4L	1991-97	4L80E	GM81	30
K1500, K2500, K3500	7.4L	1998-00	4L80E	GM88	31
K1500, K2500, K3500	8.1L	2001-07	1000, 2000, 2400	A7XH	48
P2500, P3500	4.3L	1990	400	GM3	17
P2500, P3500	4.3L	1991-97	4L80E	GM82	30
P2500, P3500	4.8L	ALL	400	GM3	17
P2500, P3500	5.7L	ALL	400	GM3	17
P2500, P3500	6.2L	ALL	400	GM6	18
P2500, P3500	7.4L	ALL	400	GM6	18
R1500, 2500, R3500	4.3L	ALL	400	GM3	17
R1500, 2500, R3500	4.3L	ALL	700-R4	GM18A	27
R1500, 2500, R3500	4.8L	ALL	400	GM3	17
R1500, 2500, R3500 (Incl. Suburban)	5.0L	ALL	400	GM3	17
R1500, 2500, R3500 (Incl. Suburban)	5.0L	ALL	700-R4	GM18AL	27
R1500, 2500, R3500 (Incl. Suburban)	5.7L	ALL	400	GM3	17
R1500, 2500, R3500 (Incl. Suburban)	5.7L	ALL	400	GM6	18
R1500, 2500, R3500 (Incl. Suburban)	5.7L	ALL	700-R4	GM18AL	27
R1500, 2500, R3500 (Incl. Suburban)	6.2L	ALL	400	GM6	18
R1500, 2500, R3500 (Incl. Suburban)	6.2L	ALL	700-R4	GM18AL	27
R1500, 2500, R3500 (Incl. Suburban)	7.4L	ALL	400	GM6	18
S15	1.9L	1982-85	700-R4	GM61HD	24
S15	2.2L	1984-85	700-R4	GM61HD	24
S15	2.2L	1994-97	4L60E	GM61CHD	24
S15	2.2L	1998-02	4L60E	GM61CHD	24
S15	2.5L	1985-88	700-R4	GM61HD	24
S15	2.5L	1989-93	700-R4	GM61HD	24
S15	2.8L	1983-90	700-R4	GM58HD	24
S15	2.8L	1989-93	700-R4	GM61HD	24
S15	4.3L	1990-94	700-R4	GM18A	27
S15	4.3L	1992-94	700-R4	GM18AH	27
S15	4.3L	1994-97	4L60E	GM35	28
Sierra	4.3L	1999-06	4L60E	GM90	29
Sierra	4.8L	2002-06	4L60E	GM90	29
Sierra	5.3L	2002-06	4L60E	GM92	29
Sierra	6.0L	2001-02	4L65E	GM92	29
Sierra	6.0L	2000-06	4L80E	GM88H	31
Sierra	6.0L	2007-09	6L90	GM10404	40
Sierra	6.6L	2001-03	1000, 2000, 2400	A7X	48
Sierra	8.1L	2001	1000, 2000, 2400	A7XH	48
Sonoma	2.2L	1994-03	4L60E	GM61CHD	24
Sonoma	2.2L	1994-03	4L60E	GM61CWH	25
Sonoma	2.5L	1991-93	700-R4	GM61HD	24
Sonoma	2.8L	1991-93	700-R4	GM58HD	24
Sonoma	4.3L	1991-92	700-R4	GM18A	27
Sonoma	4.3L	1993-94	4L60E	GM18A	27
Sonoma	4.3L	1993-94	4L60E	GM18AH	27
Sonoma	4.3L	1995-97	4L60E	GM35	28
Sonoma	4.3L	1998-04	4L60E	GM35CW	28
SUV (4WD)	4.3L	1993-95	4L60E	GM18A	27
SUV (4WD)	4.3L	1999-02	4L60E	GM90	29
SUV (4WD)	5.0L	1990-94	700-R4	GM18AL	27
SUV (4WD)	5.0L	1999-00	4L60E	GM33CW	28
SUV (4WD)	5.7L	1990-95	700-R4	GM18AL	27
SUV (4WD)	5.7L	1996-98	4L80E	GM88	31
SUV (4WD)	5.7L	1998-00	4L60E	GM35CW	28
SUV (4WD)	6.0L	2001-02	4L65E	GM92	29
SUV 1500, 2500, 3500 (4WD)	6.5L	1996-97	4L80E	GM81	30
Tracker	1.6L	1989-91	180C	GM83	10
Typhoon	4.3L	1992-93	700-R4	GM18A	27
Van (Incl. Safari)	2.5L	1985-90	700-R4	GM61HD	24
Van (Incl. Safari)	2.5L	1985-90	700-R4	GM58HD	24
Van (Incl. Safari)	4.3L	1985-95	700-R4	GM18A	27
Van (Incl. Safari)	4.3L	1993-94	4L60E	GM18A	27

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GMC (Cont.)					
Van (Incl. Safari)	4.3L	1995-04	4L60E	GM35	28
Van (Incl. Safari)	4.3L	1998-04	4L60E	GM35CW	28
Van (Incl. Savana)	4.3L	2003-06	4L60E	GM90	29
Van (Incl. Safari)	4.3L	2005	4L60E, 4L65E	GM95	25
Van (Incl. Safari)	4.3L	1991-97	4L80E	GM82	30
Van (Incl. Safari)	4.3L	1996-97	4L80E	GM82	30
Van (Incl. Savana)	4.3L	2001-02	4L80E	GM88H	31
Van	4.8L	1987	400	GM3	17
Van	4.8L	1987	700-R4	GM18AL	27
Van (Incl. Savana)	4.8L	2004-05	4L80E	GM88H	31
Van (Incl. Savana)	4.8L	2007	4L80E	GM88H	31
Van	5.0L	1987	400	GM3	17
Van	5.0L	1987-95	700-R4	GM18AL	27
Van	5.0L	1995	4L60E	GM33	28
Van	5.0L	1996-97	4L60E	GM33	28
Van	5.0L	1998-02	4L60E	GM33CW	28
Van (Incl. Suburban)	5.7L	1987	400	GM3	17
Van (Incl. Suburban)	5.7L	1987-95	700-R4	GM18AL	27
Van	5.7L	1995-97	4L60E	GM33	28
Van (Incl. Savana)	5.7L	1998-02	4L60E	GM33CW	28
Van (Incl. Suburban)	5.7L	1991-97	4L80E	GM82	30
Van (Incl. Savana)	5.7L	1997	4L80E	GM82	30
Van (Incl. Savana)	5.7L	2002	4L80E	GM88H	31
Van (Incl. Savana)	6.0L	2003-06	4L80E	GM88H	31
Van (Incl. Savana)	6.0L	2003-06	4L80E	GM88H	31
Van (Incl. Suburban)	6.2L	1987	400	GM6	18
Van (Incl. Suburban)	6.2L	1987-93	700-R4	GM18AL	27
Van	6.2L	1992-93	4L80E	GM88	31
Van	6.5L	1994-95	4L60E	GM18AL	27
Van	6.5L	1995	4L60E	GM33	28
Van	6.5L	1994-96	4L80E	GM81	30
Van (Incl. Savana)	6.5L	1998-02	4L80E	GM88	31
Van (Incl. Savana)	6.6L	2006	4L85E	GM88	31
Van	7.4L	1987	400	GM6	18
Van	7.4L	1991-97	4L80E	GM81	30
Van	7.4L	1998-00	4L80E	GM88	31
Van	8.1L	2001-02	4L80E	GM88	31
Yukon	4.8L	2002	4L60E	GM90	29
Yukon	4.8L	2003-04	4L60E	GM92	29
Yukon	5.3L	2002-06	4L60E	GM92	29
Yukon	5.7L	1998-00	4L60E	GM33CW	28
Yukon	6.0L	2000-05	4L60E, 4L65E	GM92	29
Yukon	6.0L	2002-05	4L80E	GM88H	31
Yukon	6.0L	2006-11	6L80E	GM10404	40
HONDA					
Accord	1.8L	1983-85	AK, AS	HO55	140
Accord	1.8L	1994-97	BOYA	HO66	142
Accord	1.8L	1994-97	BOYA	HO78	142
Accord	1.8L	1994-97	BOYA	HO72	142
Accord	2.0L	1986-89	F4	HO61	141
Accord	2.2L	1991-92	PX4B	HO66	142
Accord	2.2L	1993	MPXA	HO66	142
Accord	2.2L	1990-93	APXA	HO66	142
Accord	2.2L	1990-93	APXA	HO78	142
Accord	2.2L	1994-97	AOYA	HO66	142
Accord	2.2L	1994-97	AOYA	HO78	142
Accord	2.2L	1994-97	AOYA	HO72	142
Accord	2.2L	1994-97	MPOA	HO66	142
Accord	2.2L	1994-97	MPOA	HO78	142
Accord	2.2L	1994-97	MPOA	HO72	142
Accord	2.3L	1998-02	BAXA, MAXA	HO66	142
Accord	2.3L	1998-02	BAXA, MAXA	HO77	142
Accord	2.3L	1998-02	BAXA, MAXA	HO78	142

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Accord	2.4L	2003-07	BCLA, MCLA	HO81	144
Accord	2.7L	1995-97	B7XA, MPZA	HO79	144
Accord	3.0L	1998-07	B7XA	HO79	144
Accord	3.0L	1998-07	BAYA, MAYA	HO79	144
Civic	1.5L	1981-85	AW	HO57	141
Civic	1.5L	1988-90	L4, ML4A	HO64	141
Civic	1.5L	1992-93	A2YA, M24A	HO69	142
Civic	1.6L	1988-91	L4, ML4A	HO64	141
Civic	1.6L	1992-03	BDRA, S4RA	HO69	142
Civic	1.7L	2001-05	BMXA, SLXA	HO69	142
Civic	1.8L	2006-10	SPCA, MPCA	HO3003	145
CRV	2.0L	1997-01	M4TA, MDLA	HO69	142
CRV	2.0L	1997-01	MRVA	HO81	144
CRV	2.4L	2002-07	MCVA, MDLA	HO69	142
CRV	2.4L	2002-07	MRVA, GPPA	HO81	144
CRX	1.5L	1981-85	AW	HO57	141
CRX	1.5L	1986-87	CA	HO56	140
Del Sol	1.6L	1993-97	A2YA, M24A	HO69	142
Element	2.4L	2003-08	BZKA, MZKA	HO81	144
Odyssey	2.2L	1995-97	MDWA, MPJA	HO66	142
Odyssey	2.2L	1995-97	MDWA, MPJA	HO78	142
Odyssey	2.3L	1998	MDWA, MPJA	HO66	142
Odyssey	2.3L	1998	MDWA, MPJA	HO77	142
Odyssey	3.5L	1999-06	B7YA, B7TA	HO80	144
Odyssey	3.5L	2007-08	P36A	HO3001	145
Passport	2.6L	1996-97	180C, 4L30E	GM85	10, 20
Passport	3.2L	1998	4L30E	GM87	21
Passport	3.2L	1999-02	4L30E	GM87CW	21
Pilot	3.5L	2003-06	BVLA, BVGA	HO80	144
Pilot	3.5L	2003-06	BVGA	HO82	145
Prelude (Carb.)	1.8L	1983-87	AS	HO55	140
Prelude (F.I.)	2.0L	1985-87	F4	HO61	141
Prelude	2.0L	1988-91	K4, PY8A, MY8A	HO65	141
Prelude	2.2L	1992-98	MP1A, M6HA	HO66	142
Prelude	2.2L	1992-98	MP1A, M6HA	HO78	142
Prelude	2.2L	1999-01	MP1A, M6HA	HO77	142
Prelude	2.3L	1997-98	MP1A, M6HA	HO66	142
Prelude	2.3L	1997-98	MP1A, M6HA	HO78	142
HUMMER					
H1 Alpha	6.6L	2006	1000, 2000, 2400	A7X Series	48
H2	6.0L	2004-07	4L65E	GM92	29
H2	6.2L	2005-10	6L80E	GM10405	40
H3	3.5L	2004-Up	4L60E	GM56	25
H3	3.7L	2007-Up	4L60E	GM56	25
Hummer	6.5L	2000	4L80E	GM88	31
HYUNDAI					
Accent	1.6L	1995-05	KM175-5, KM177	KM12HD, KM12BHD	146
Elantra	1.5L	1992-97		KM12HD, KM12BHD	146
Elantra	1.6L	1991-95	KM176, F4A21	KM10HD	170
Elantra	1.8L	1994-97	KM Series & F4A33	KM12HD, KM12BHD	146
Elantra	2.0L	1998-01		KM12HD, KM12BHD	146
Elantra	2.0L	2001-02	A4A42	KM23	174
Excel	1.5L	1990	KM176-5	KM11HD	170
Excel	1.5L	1991	KM176-5	KM11HD	170
Excel	1.5L	1988-89	KM170, 171, 172, 175	KM7HD	170
Excel	1.5L	1989-90	KM170, 171, 172, 175	KM8HD	170
Excel	1.5L	1990-91	KM176, F4A21	KM10HD	170
Excel	1.5L	1990-95	KM176, F4A21	KM19	172
Excel	1.5L	1992-93	KM175, 177	KM12HD, KM12BHD	146
Santa Fe	2.4L	2001-04	F4A51	KM28M	147
Santa Fe	2.4L	2001-04	F4A51	KM29	148
Santa Fe	2.7L	2001-06	F4A51	KM29	148
Santa Fe (4WD)	2.7L	2001-06	F4A51	KM17	172

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Santa Fe	3.0L	2001-06	F4A51	KM28M	147
Scoupe	1.5L	1991-92	KM176, F4A21	KM11HD	146
Scoupe	1.5L	1991-95	KM176, F4A21	KM19	172
Scoupe	1.5L	1992-93	KM175, 177	KM12HD, KM12BHD	146
Sonata	1.6L	1986-98	KM176, F4A21	KM12HD, KM12BHD	146
Sonata	2.0L	1990-98	KM176, F4A21	KM10HD	146
Sonata	2.4L	1985-91	KM170, 171, 172	KM7HD	147
Sonata	2.4L	1990-93	KM175-5, KM177	KM12HD, KM12BHD	146
Sonata	2.4L	1999-03	F4A42	KM25	147
Sonata	2.5L	1999	F4A42	KM25	147
Sonata	2.7L	2005	F4A42	KM25	147
Sonata	3.0L	1988-92	KM175, 177	KM9	147
Sonata	3.0L	1997-98	KM175, F4A33	KM16CHD	147
Tiburon	1.8L	1997-01	KM175, 177	KM12HD, KM12BHD	146
Tiburon	2.0L	1997-02	A4BF1	KM12HD, KM12BHD	146
Tiburon	2.0L	2005	F4A42	KM23	174
Tiburon	2.7L	2006	F4A42	KM25	147
Tiburon	2.7L	2007	F4A42-2	KM28M	147
Tucson	2.0L	2005	F4A42	KM23	174
Tucson	2.7L	2005	F4A42	KM25	147
XG300	3.0L	2001-02	F5A51	KM28M	147
XG300	3.5L	2002	F5A51	KM28M	147
XG350	3.5L	2002-05	F5A51	KM17	172
INFINITI					
G20	2.0L	1991-93	RL4F03A	DA28	185
G20	2.0L	1991-00	RE4F03A	DA48	185
G35	3.5L	2003-05	RE5R05A	DA61	192
I30	3.0L	1995-01	RE4F04A, RE4F04B	DA46	186
I30	3.0L	1996-01	RE4F04A	DA42	187
I30	3.0L	1996-01	RE4F04B	DA46	186
I35	3.5L	2002	RE4F04B	DA42L	187
J30	2.4L	1987-95	RE4R01A	DA16HD	188
J30	3.0L	1992-97	RE4R01A	DA41	190
J30	3.0L	1990-95	RE4R01A	DA16HD	188
J30	3.0L	1996-97	RE4R01A	DA31	189
M30	3.0L	1990-92	RE4R01A	DA16HD	188
Q45	4.1L	1997-98	RE4R03A	DA62	190
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Q45	4.5L	1990-01	RE4R03A	DA62	190
Q45	4.5L	1990-93	RE4R03A	DA39	190
Q45	4.5L	1993	RE4R03A	DA41	190
Q45	4.5L	2002-07	RE5R05A	DA59	192
Q45	4.5L	2002-07	RE5R05A	DA61	192
QX4	3.3L	1997-03	RE4R01A	DA31	189
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QX4	3.5L	2000	RE4R01A	DA56	189
QX56	5.6L	2005	RE5R05A	DA60	192
ISUZU					
Amigo	2.2L	1998-00	4L30E	GM24	20
Amigo	2.2L	2000	4L30E	GM87CW	21
Amigo	2.6L	1993	A44DL	TO47	203
Amigo	3.2L	1997-99	4L30E	GM87	21
Amigo	3.2L	1998-99	440-T4	GM71	34
Amigo	3.2L	1999	4L30E	GM24	20
Amigo	3.2L	1999-00	4L30E	GM87CW	21
Axiom	3.5L	1999-06	4L30E	GM87CW	21
Box Truck Diesel	3.9L	1987-04	JR403E	TO61	135
Box Truck Diesel	4.7L	1987-04	JR403E	TO61	135
Cabover Diesel	ALL	1997	AT545	A6HD	50
Hombre	2.2L	1997-00	4L60E	GM61CHD	24
Hombre	4.3L	1997-00	4L60E	GM35CW	28
Hombre	4.3L	1998-00	4L60E	GM90	29
I-Mark DLX	1.8L	1984-85	A40, A41, A43	TO10	200

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I-Mark DLX	1.8L	1984-85	A41	TO20	200
Impulse	1.8L	1990-92	JF403E	DA20	186
NPR Cab Over	4.8L	1999	AW450-43LE	TO61B	135
NPR Cab Over	5.7L	2003	4L80E	GM88H	31
Oasis	2.2L	1996	MDJA	HO66	142
Oasis	2.2L	1996	MDJA	HO78	142
Oasis	2.2L	1998	MPJA	HO77	142
Pickup	1.9L	1983-86	A40, A41, A43	TO10	200
Pickup	1.9L	1983-86	A41	TO20	200
Pickup	2.2L	1998	4L60E	GM61CHD	24
Pickup	2.2L	1981-87	A40, A41, A43	TO10	200
Pickup	2.2L	1981-87	A41	TO20	200
Pickup	2.3L	1986-87	A40, A41, A43	TO10	200
Pickup	2.3L	1986-87	A41	TO20	200
Rodeo	2.2L	1997	4L30E	GM85	20
Rodeo	2.2L	2000	4L30E	GM87	21
Rodeo	2.2L	2001	4L30E	GM24-6H	21
Rodeo	2.2L	2001-03	4L30E	GM24-6H	21
Rodeo	2.6L	2001	4L30E	GM24-6H	21
Rodeo	3.1L	1996-97	4L30E	GM85	20
Rodeo	3.2L	1993-97	4L30E	GM85	20
Rodeo	3.2L	1998-01	4L30E	GM87	21
Rodeo	3.2L	2000-02	4L30E	GM87CW	21
Rodeo	3.5L	1999-00	4L30E	GM87	21
Trooper	2.2L	1992	4L30E	GM24	20
Trooper	2.8L	1990-91	4L30E	GM24	20
Trooper	2.8L	1988-91	A340	TO38	210
Trooper	3.0L	2000-01	4L30E	GM87CW	21
Trooper	3.2L	1992-94	4L30E	GM85	20
Trooper	3.2L	1997	4L30E	GM87	21
Trooper	3.2L	1999-02	4L30E	GM87CW	21
Trooper	3.5L	1997	4L30E	GM87CW	21
Trooper	3.5L	1998	4L30E	GM87	21
Trooper	3.5L	1995-97	4L30E	GM85	20
Trooper	3.5L	1999-02	4L30E	GM87CW	21
Truck	2.0L	1986	A40	TO10	200
Truck	2.2L	1999	4L60E	GM58CWH	25
Truck	4.1L	1999	JR403E	DA27	191
Truck (Diesel)	3.9L	1987-98	JF403E	DA21	191
Truck (Turbo Diesel)	3.9L	1987-98	JF403E	DA25	191
Truck NPR, W4	5.7L	1991-97	4L80E	GM82	30
Truck NPR, W4	5.7L	2000-05	4L80E	GM88H	31
JAGUAR					
S-Type	3.0L	2000	5R55N	FM138	56
S-Type	3.0L	2002-07	ZF6HP26	JA95	257
S-Type	3.9L	2000	5R55N	FM138-8	56
S-Type	4.0L	2000	5R55N	FM138-8	56
X Type	2.5L	2002-10	JF506E	DA70	160
X Type	3.0L	2002-10	JF506E	DA80	160
XJ6	4.0L	1984-88	ZF3HP22	JA3	246
XJ6	4.0L	1989-Up	ZF4HP22	JA5	247
XJ8	3.2L	1997	ZF5HP24	JA13905	253
XJ8	4.0L	2001	722.6	MB19B	165
XJ8	4.0L	1997-98	ZF5HP24	JA13905	253
XJ8	4.0L	1997-03	ZF5HP24	JA13906	253
XJR	4.0L	1998-03	722.6	MB19B	165
XK8	4.0L	1997-99	ZF5HP24	JA13906	253
XK8	4.0L	1998	ZF5HP24	JA13905	253
XK8	4.0L	1997	ZF5HP24	BMW12901	251
XK8	4.0L	1997	722.6	MB19B	165
XK8	4.0L	1997-00	ZF5HP24	JA13906	253
XK8	4.2L	2003-08	ZF6HP26	JA95A	257
JEEP					
Cherokee	2.5L	1987-01	A340	J29	211

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Cherokee	2.8L	1986-87	904	J22	122
Cherokee	4.0L	1987-01	A340	J30	211
Cherokee	4.0L	1995-01	AW30-40LE	J30	211
Commander	3.7L	2005-08	722.6	CR7801	99
Commander	4.7L	2006	5-45RFE	CR2	96
Grand Cherokee	3.0L	2007	722.6	MB23	164
Grand Cherokee	3.1L	1999	A500	CR90	105
Grand Cherokee	3.7L	2003	722.6	CR7801	99
Grand Cherokee	3.7L	2005	722.6	MB18B	99
Grand Cherokee	3.7L	2006	722.6	CR7801	99
Grand Cherokee	3.7L	2007	722.6	CR7801	99
Grand Cherokee	3.7L	2005-07	722.6	MB18B	99
Grand Cherokee	4.0L	1994-04	A500	CR90	105
Grand Cherokee	4.7L	1999-05	45RFE	CR2	96
Grand Cherokee	5.2L	1992-96	A518	CR63	107
Grand Cherokee	5.7L	2005	5-45RFE	CR2A	96
Grand Cherokee	5.7L	2005	722.6	MB18B	99
Grand Cherokee	5.9L	1992-96	A518	CR64	107
Grand Wagoneer	5.2L	1993	A727	CR54H	114
Laredo	4.0L	1994-04	A500	CR90	105
Liberty	2.8L	2005-12	45RFE	CR2	96
Liberty	3.7L	2003-05	42RLE	CR0621	95
Liberty	3.7L	2003	42RLE	CR46	95
Liberty	3.7L	2002-06	45RFE	CR2	96
Liberty	3.7L	2005	722.6	MB18B	99
Patriot	3.7L	2007	722.6	CR7801	99
Wrangler (10.2")	2.4L	2002-12	42RLE	CR87	95
Wrangler (10.75")	2.4L	2002-12	42RLE	CR0621	95
Wrangler (10.75")	2.4L	2002-12	42RLE	CR46	95
Wrangler	2.5L	1995	A904	CR47	122
Wrangler	2.5L	1998-02	A904	CR97	122
Wrangler	2.5L	1990-95	A500	CR47	104
Wrangler	2.5L	1996-05	A500	CR97	104
Wrangler	2.7L	2003	42RLE	CR87	95
Wrangler	2.7L	1990	A904	CR47	122
Wrangler	2.7L	1996-98	A904	CR97	122
Wrangler	3.8L	2003-07	42RLE	CR0621	95
Wrangler	4.0L	2003-07	42RLE	CR0621	95
Wrangler	4.0L	1985-92	A904	CR78	121
Wrangler	4.0L	1991-95	A904	CR68	121
Wrangler	4.0L	1992-95	A904	CR69	123
Wrangler	4.0L	1995-99	A904	CR90	123
Wrangler	4.0L	1988-92	A500	CR78	103
Wrangler	4.0L	1992-05	A500	CR69	105
Wrangler	4.0L	1993-95	A500	CR68	103
Wrangler	4.0L	1996-05	A500	CR90	105
KIA					
Optima	2.4L	2001-05	F4A42	KM25	150
Optima	2.7L	2004	F4A42	KM25	150
Rio	1.5L	2001-04	F4A-EL	DA26	149
Rio	1.6L	2001-05	F4A-EL	DA26	149
Sedona	3.5L	2002	F5A51	KM28M	150
Sedona	3.5L	2002-05	F4A51	KM17	172
Sephia	1.8L	1997-01	F4A-EL	DA26	149
Sephia	1.9L	1998	F4A-EL	DA26	149
Sorento	3.5L	2002-09	RE5R05A	DA67	150
Spectra	1.8L	2000-04	F4A-EL	DA26	149
Spectra	2.0L	2004	F4A42	KM23	174
Sportage	2.0L	1995-02	A44DE	TO65	202
LANDROVER					
Discovery	3.9L	1994	ZF4HP22	BMW24	246
Discovery	4.0L	1996-98	ZF4HP22	BMW37	246
Freelander	2.5L	2000-06	JF506E	DA75	160

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Range Rover	4.2L	2006-10	ZF6HP26	BMW45	256
Range Rover	4.4L	2002-12	ZF5HP24	BMW13903	252
Range Rover	4.6L	1997	ZF4HP24	BMW42	247
LEXUS					
ES250	2.5L	1990-91	A540E	TO42, TO42B	216
ES300	3.0L	1992-95	A540	TO42, TO42B	216
ES300	3.0L	1994-01	A541E	TO55	217
ES300	3.0L	1991-01	A541E	TO55A	217
ES300	3.0L	1999-01	U140	TO55A	221
ES350	3.5L	2006-12	U660E	TO4701	226
GS300	3.0L	1993-95	A340	TO59	211
GS300	3.0L	1996-97	A350E	TO59	215
GS300	3.0L	1998-02	A650E	TO59	215
GS400	4.0L	1998-00	A650E	TO44A	218
GX470	4.7L	2004	A750E	TO71	219
IS300	3.0L	2000-02	A650E	TO59	215
LS400	4.0L	1990-97	A341E	TO44	213
LS400	4.0L	1998-00	A650E	TO44A	218
LS430	4.3L	2003-06	A761E	TO70	219
LX 450	4.5L	1996-97	A343F	TO44A	214
LX 470	4.5L	1998-02	A343F	TO44A	214
LX 470	4.7L	1998-02	A343F	TO44A	214
LX470	4.7L	2005	A750F	TO71	219
RX300 (AWD)	3.0L	1999-03	U140E	TO55A	221
RX300 (RWD)	3.0L	1999-03	U140E	TO70	221
RX330	3.3L	2004	U151F	TO55L	222
RX350	3.5L	2007	U151E	TO55L	222
SC300	3.0L	1996	A340E	TO59	211
SC400	4.0L	1992-97	A341E	TO44	213
SC400	4.0L	1998-00	A650E	TO44A	218
SE400	4.0L	1992	A341E	TO44	213
LINCOLN					
Aviator	4.6L	2003	5R55S	FM138-8	56
Continental	2.4L	1984-Up	ZF4HP22	BMW13	244
Continental	3.8L	1988-90	AXOD	FM61C	69
Continental	3.8L	1990-91	AXOD-E, AX4S	FM61C	69
Continental	3.8L	1991	AXOD-E, AX4S	FM61M	69
Continental	3.8L	1992-94	AXOD-E, AX4S	FM61R	69
Continental	3.8L	1992-94	AXOD-E, AX4S	FM71	70
Continental	3.8L	1995	AX4N	FM71C	70
Continental	4.6L	1995-02	AX4N	FM72C	70
Continental	4.6L	2002	AX4N	FM71C	70
Continental	5.0L	1980-86	ZF4HP22	BMW34	244
LHS	3.9L	2000	5R55N	FM138-8	56
LS	3.0L	1999-06	5R55N, 5R55S	FM138	56
LS	3.9L	1999-06	5R55N, 5R55S	FM138-8	56
Marauder	4.6L	2003	4R70W	FM70	66
Mark VIII	3.8L	1994-95	4R70W	FM70	66
Mark VIII	4.6L	1996-98	4R70W	FM70	66
Navigator	5.4L	2000	4R100	FM64X	84
Navigator	5.4L	2003-04	4R100	FM64	84
Town Car	4.6L	1994	4R70W	FM69H	67
Town Car	4.6L	1995-03	4R70W	FM69	67
Town Car	4.6L	1998-03	4R70W	FM70	66
Zephyr	3.0L	2006-09	AF21, TF-81SC	FM3901	88
Zephyr	3.0L	2005-06	AF21, TF-81SC	FM3902	88
MAZDA					
3	2.0L	2004-07	FN4A-EL, 4F27E	DA55B	156
3	2.3L	2004-05	FN4A-EL 4F27E	DA64	157
3	2.3L	2004-07	FN4A-EL, 4F27E	DA55B	156
3	2.3L	2010-12	FS5A-EL, FNR5	FM4800	158
323	1.6L	1986-89	G4A-EL	DA15	155
323	1.6L	1988-89	G4A-EL	DA17HD	153

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323	1.6L	1990	G4A-EL	FM86	154
323	1.6L	1990-94	G4A-EL	DA17F	153
323	1.6L	1990-91	RL4F03A	DA28	185
323	1.8L	1986-89	G4A-EL	DA15	155
5	2.3L	2007	FN4A-EL 4F27E	DA65	157
5	2.3L	2010-12	FS5A-EL, FNR5	FM4800	158
6	2.3L	2003-05	FN4A-EL, 4F27E	DA58	157
6	2.3L	2003-05	FN4A-EL, 4F27E	DA64	157
6	2.3L	2006-12	FS5A-EL, FNR5	FM4800	158
6	3.0L	2002-06	JF506E	DA85	160
6	3.0L	2005-12	TF-81SC	FM3901	88
6	3.0L	2003-05	FN4A-EL, 4F27E	DA58	157
6	3.0L	2005-12	AW6A-EL	FM3901	88
626	1.6L	1986-89	G4A-EL	DA15	155
626	1.8L	1986-89	G4A-EL	DA15	155
626	2.0L	1987-89	G4A-EL	DA15LS	155
626	2.0L	1988-89	G4A-EL	DA17HD	153
626	2.0L	1988-90	G4A-EL	FM65	154
626	2.0L	1993	G4A-EL	FM84	154
626	2.0L	1994-02	CD4E	FM80	80
626	2.2L	1989-92	G4A-EL	FM65	154
626	2.5L	1988	G4A-EL	FM65	154
626	2.5L	1994-02	G4A-EL	FM85	155
626	2.5L	1992-02	G4A-EL	FM84	154
929	3.0L	1982-88	4N71B	DA8	181
929	3.0L	1989-95	4N71B	DA8B	181
929	3.0L	1992-95	R4A-EL	DA36	188
Miata	1.6L	1992	L4N71B	DA37	181
Miata	1.8L	1991-97	4N71B	DA37	181
Millenia	2.3L	1995-01	LJ4A-EL	DA53	186
Millenia	2.5L	1995-02	G4A-EL	FM85	155
Millenia	2.5L	2000	G4A-EL	DA57	155
MPV	2.4L	1987-95	RE4R01A	DA16HD	188
MPV	2.5L	2000-01	G4A-EL	DA57	155
MPV	2.6L	1989	L4N71B	DA8	181
MPV	2.6L	1989-95	4N71B	DA8B	181
MPV	2.6L	2000	G4A-EL	DA57	155
MPV	3.0L	1989-95	4N71B	DA8B	181
MPV	3.0L	2000-02	G4A-EL	DA57	155
MPV	3.0L	2002-06	JF506E	DA85	160
MPV	3.0L	1990-99	RE4R01A	DA31	189
MPV	3.0L	1995-99	RE4R01A	DA16HD	188
MX3	1.8L	1992-95	F4A-EL	DA26	153
MX3	2.0L	1991-93	G4A-EL	DA18	153
MX3	2.3L	2004	FN4A-EL 4F27E	DA64	157
MX6	2.0L	1993	G4A-EL	FM84	154
MX6	2.0L	1994-99	CD4E	FM80	80
MX6	2.2L	1991		FM65	154
MX6	2.2L	1988-98	G4A-EL	DA17HD	153
MX6	2.2L	1988-90	G4A-EL	FM65	154
MX6	2.5L	1993	G4A-EL	FM85	155
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MX6	3.0L	1991		FM65	154
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Protege	1.5L	1994-98	F4A-EL	DA26	153
Protege	1.5L	1996	F4A-EL	FM84	154
Protege	1.5L	1998	F4A-EL	DA30	153
Protege	1.6L	1999	FN4A-EL, 4F27E	DA54	156
Protege	1.6L	1999-03	FN4A-EL, 4F27E	DA55	156
Protege	1.6L	1986-89	G4A-EL	DA15	155
Protege	1.6L	1990-94	G4A-EL	DA17F	153
Protege	1.6L	1990-91	RL4F03A	DA28	185
Protege	1.8L	1994	F4A-EL	DA17A	153

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Protege	1.8L	2000	FN4A-EL 4F27E	DA54	156
Protege	1.8L	1986-89	G4A-EL	DA15	155
Protege	1.8L	1990-94	G4A-EL	FM86	154
Protege	2.0L	2002-03	FN4A-EL 4F27E	DA55A	156
Protege	2.0L	1987-89	G4A-EL	DA15LS	155
RX7	3.0L	1993-96	R4A-EL	DA36	188
Tribute	3.0L	2000	CD4E	FM89	80
MERCEDES					
190	2.3L	1985		MB39	163
190D	2.5L	1985-89	722.4	MB39	163
190E	2.3L	1983-90	W4A-020	MB41	163
190E	2.6L	1983-90	W4A-020	MB40	163
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190E	2.6L	1987-93	722.4	MB41	163
300	2.5L	1991-93	W4A-020	MB42	163
300 Diesel Turbo		1981-94	722.3	MB32	162
300 SDL Diesel Turbo	3.0L	1987-90	722.3	MB33	162
300 SEL	3.0L	1981-91	722.3	MB38	162
300 Series		1981-91	722.3	MB30	162
300D	2.5L	1993	722.4	MB42	163
300E	2.8L	1993	722.4	MB42	163
300SL	3.0L	1991	722.5	MB33	162
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320 Series	3.2L	1997-05	722.6	MB18A	164
400 Series	4.2L	1992-93	722.3	MB37	162
420 SEL	2.6L	1987-90	W3A-040	MB37	162
430E	5.0L	1999	722.6	MB19A	165
500 CLS	5.0L	2006	722.9	MB18A	164
500SL	5.0L	2005	722.6	MB19A	165
560 SEL	5.6L	1986-87	W3A-040	MB37	162
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C220	2.2L	1994-96	722.4	MB42	163
C230	1.8L	2003-04	722.6	MB18	164
C230	1.8L	2006	722.9	MB22	165
C230	2.3L	2000	722.6	MB18	164
C230	2.3L	2006	722.6	MB22	165
CL500	5.0L	1996-98	722.6	MB19	165
CL500	5.0L	2006	722.9	MB18A	164
CLK320	3.2L	2002	722.6	MB18A	164
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ML350	3.5L	2006	722.9	MB23	164
ML400	4.0L	2003	722.6	MB18A	164
ML430	4.3L	1999-01	722.6	MB19A	165
ML430	6.0L	2001	722.6	MB18A	164
S320	3.2L	1994-96	722.3	MB33	162
S420	4.2L	1994-95	722.3	MB37	162
S420	4.2L	1996-99	722.6	MB19	165
S430	5.5L	2005	722.6	MB18A	164
S500	5.0L	1994-95	722.3	MB33	162
S500	5.0L	1994-95	722.3	MB37	162
S500	5.0L	1996-99	722.6	MB19	165
S500	5.0L	2003	722.6	MB18A	164

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S600 (V12)	5.5L	2001-03	722.6	MB19A	165
SL500	5.0L	2005	722.9	MB18A	164
SL600	6.0L	1994-95	722.3	MB37	162
SLK	Code	2005-Up	722.9	MB23	164
MERCURY					
Capri	1.6L	1990-91	G4A-EL	DA17A	153
Capri	1.6L	1990-94	G4A-EL	DA17F	153
Cougar	2.0L	1998-01	CD4E	FM80	80
Cougar	2.5L	2001-02	CD4E	FM89	80
Cougar	2.5L	1998-02	CD4E	FM75	80
Grand Marquis	4.6L	1994	AODE	FM69H	67
Grand Marquis	4.6L	1995-03	4R70W	FM69	67
Mariner	2.3L	2005	CD4E	FM89L	80
Mariner	3.0L	2005	CD4E	FM89L	80
Marquis	4.6L	1992	AOD	FM55B	65
Marquis	4.6L	1992	AODE	FM69C	67
Milan	2.3L	2005-08	FNR5	FM4800	158
Milan	3.0L	2006-09	AF21, TF-81SC	FM3901	88
Marauder	4.6L	2004	4R70W	FM70	66
Montego	3.0L	2005-07	AF21, TF-81SC	FM3902	88
Montego	3.0L	2006	CFT30	FM3301	81
Monterey	3.9L	2004-07	AX4N, 4F50N	FM90LS	71
Monterey	4.2L	2004-07	AX4N, 4F50N	FM90LS	71
Mountaineer	4.0L	1997	5R55E	FM68HD	55
Mountaineer	4.0L	2001-04	5R55W	FM68HD	57
Mountaineer	4.6L	2001-05	5R55W	FM138-8	56
Mountaineer	5.0L	1997-00	4R70W	FM69H	67
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Sable	3.0L	1986-91	AXOD, AX4S	FM61	69
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Sable	3.0L	1994-03	AX4N, AX4S	FM71	70
Sable	3.0L	1998-03	AX4N	FM71H	70
Sable	3.0L	1998-03	AX4N	FM71C	70
Sable	3.0L	2004-06	4F50N	FM90	71
Sable	3.8L	1988-90	AXOD	FM61C	69
Sable	3.8L	1990-91	AXOD-E, AX4S	FM61C	69
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Tracer	1.9L	1993-94	F4A-EL	DA17A	153
Tracer	2.0L	1991-93	G4A-EL	DA18	153
Tracer	2.0L	1991-99	F4A-EL	DA30	153
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MITSUBISHI					
3000 GT	3.0L	1991-99	KM175, F4A33	KM16HD, KM16BHD	171
Cordia	2.0L	1982-88	KM170, 171, 172, 175	KM6	169
Diamante	3.0L	1992-96	KM175, F4A33	KM16HD, KM16BHD	171
Diamante	3.0L	1997-04	F4A51	KM17	172
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Eclipse	1.8L	1989-94	KM175, 177	KM12HD, KM12BHD	170
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Eclipse	2.0L	1998	KM175, F4A33	KM16HD, KM16BHD	171
Eclipse	2.0L	1998	A604	CR73	110
Eclipse	2.0L	1990-91	F4A22	KM12HD, KM12BHD	170
Eclipse (Turbo)	2.0L	1991-98	KM175, 176, F4A33	KM16HD, KM16BHD	171
Eclipse	2.0L	1990	KM175-5	KM10HD	170
Eclipse	2.0L	1991-94	KM175-5	KM12HD, KM12BHD	170
Eclipse	2.0L	1996-99	KM175-5, KM177	KM12HD, KM12BHD	170
Eclipse	2.0L	1991	W4A33-1	KM12HD, KM12BHD	170

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Eclipse	3.0L	2000-03	F4A51	KM28	174
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Endeavor	3.8L	2004	F4A5A	KM17-6	174
Expo	2.4L	1992-95	W4A32	KM12HD, KM12BHD	170
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Galant	2.4L	2004-Up	F4A4B	KM8201	176
Galant	2.4L	1994-98	KM177, F4A33	KM21	172
Galant	2.4L	1999-03	F4A42	KM24	173
Galant	2.4L	1999-03	F4A42	KM27	173
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Galant	2.4L	1993-94	KM177, F4A33	KM12HD, KM12BHD	170
Galant	2.4L	1994-98	KM175-5, KM177	KM12HD, KM12BHD	170
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Galant	3.0L	1998-03	F4A51	KM28	174
Galant	3.0L	1998-03	F4A51	KM17	172
Lancer	2.0L	2002	F4A42	KM30	173
Mirage	1.5L	1991	KM176-5	KM12HD, KM12BHD	170
Mirage	1.5L	1990-92	KM176, F4A21	KM11HD	170
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Mirage	1.5L	1992-97	F4A33	KM15	169
Mirage	1.8L	1995	KM175-5	KM12HD, KM12BHD	170
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Mirage	1.8L	1997-02	F4A42	KM24	173
Mirage	1.8L	1995	F4A22-2	KM12HD, KM12BHD	170
Montero	2.6L	1986	904	CR36	120
Montero	3.0L	1991	A44DL	TO26	203
Montero	3.0L	1991	A44DL	TO47	203
Montero	3.0L	1998	A340	TO26-20	212
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200SX	2.0L	1982-91	4N71B	DA14	181
240SX	2.4L	1995	RE4R01A	DA16HD	188
300ZX	Some	1982-83	4N71B	DA8	181
300ZX (Non Turbo)	3.0L	1984-91	4N71B	DA14	181
300ZX (Turbo)	3.0L	1984-89	4N71B	DA34	181
300ZX	3.0L	1989-97	RE4R01A	DA16HD	188
300ZX (Turbo)	3.0L	1990-97	RE4R03A	DA41	190
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810	ALL	1984-91	4N71B	DA14	181
Altima	2.4L	2001	RE4F04A	DA42	187

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Altima	2.4L	1994-98	RE4F04A	DA46	186
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Altima	3.5L	2002-04	RE4F04A	DA42L	187
Altima	3.5L	2005-07	RE5F22A	TO77	132
Armada	5.6L	2004-06	RE5R05A	DA60	192
Axxess	2.4L	1983-90	RL4F02A	DA13HD	185
Frontier	3.3L	1999-04	RE4R01A	DA31L	189
Frontier	3.3L	1999-04	RE4R01A	DA56	189
Frontier	3.4L	2002-04	RE4R01A	DA31L	189
Frontier	4.0L	2004-12	RE5R05A	DA59	192
Frontier	4.0L	2004-12	RE5R05A	DA61	192
Maxima	3.0L	1984-94	RL4F02A	DA11HD	185
Maxima	3.0L	1992-03	RE4F04A	DA42	187
Maxima	3.5L	1992-05	RE4F04A	DA42L	187
Maxima Se	3.5L	2004-05	AW55-50SN	TO77	132
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Pathfinder	3.0L	1988-95	RE4R01A	DA16HD	188
Pathfinder	3.0L	1999	RE4R01A	DA56	189
Pathfinder	3.3L	1990-97	RE4R01A	DA31	189
Pathfinder	3.3L	1988-98	RE4R01A	DA56	189
Pathfinder	3.5L	2000-02	RE4R01A	DA56	189
Pathfinder	3.5L	1993-04	RE4R01A	DA39	190
Pathfinder	4.0L	2005	RE5R05A	DA61	192
Pathfinder	5.6L	2004-06	RE5R05A	DA60	192
Pickup	ALL	1986-87	4N71B	DA8	181
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Pickup	2.4L	2001	RL4R01A	DA31	189
Pickup	3.0L		RE4R01A	DA16HD	188
Pulsar	1.8L	1988-90	RL4F02A	DA13HD	185
Pulsar	1.8L	1988-90	RL4F02A	DA11HD	185
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Sentra	1.6L	1991-99	RL4F03A	DA28	185
Sentra	1.8L	2000-06	RE4F03A	DA48	185
Sentra	2.0L	1993-01	RE4F03A	DA48	185
Sentra	2.5L	2002-06	RE4F04B	DA42	187
Sentra (Code 21B)	2.0L	2005-12	RE0F10A	N33G03	182
Stanza	2.0L	1983-90	RL4F02A	DA13HD	185
Stanza	2.4L	1992	RE4F02A	DA13HD	185
Stanza	3.0L	1990	RE4F02A	DA13HD	185
Titan	5.6L	2004-07	RE5R05A	DA60	192
Xterra	3.3L	2002	RE4R01A	DA31L	189
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88 (Incl. Regency)	3.8L	1998-99	4T65E	GM71CW	35
88	5.0L	1988	200-4R	GM15AL	12
98	3.0L	1985	440-T4	GM42	34
98	3.8L	1985-88	440-T4	GM71	34
98	3.8L	1989-90	440-T4	GM63	34
98 (Incl. Regency)	3.8L	1991-95	4T60E	GM71	34

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98 (Incl. Regency)	3.8L	1994-96	4T60E	GM63C	34
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Achieva	2.3L	1992	125C	GM73	9
Achieva	2.3L	1994	4T60E	GM73	34
Achieva	2.3L	1995	125C	GM73	9
Achieva	2.3L	1992-93	125C	GM73	9
Achieva	2.3L	1992-95	125C	GM73	9
Achieva	2.3L	1994-95	4T60E	GM73CW	35
Achieva	2.4L	1996-98	4T60E	GM73C	35
Achieva	2.4L	1997-98	4T40E	GM73CW	32
Achieva	3.1L	1994-98	4T60E	GM71	34
Achieva	3.1L	1997-98	4T60E	GM71C	34
Achieva	3.3L	1992-93	125C	GM63	9
Achieva	3.3L	1992-93	125C	GM71	9
Achieva	3.3L	1994	125C	GM73	9
Alero	2.2L	2002-04	4T40E	GM73CW	32
Alero	2.4L	1999-02	4T40E	GM73CW	32
Alero	3.4L	1999-04	4T40E	GM71C	34
Alero	3.4L	1999-04	4T40E	GM71CW	32
Aurora	3.5L	2001-02	4T65E	GM50	36
Aurora	3.5L	2001-02	4T65E	GM52	36
Aurora	3.8L	1996	4T60E	GM71C	34
Aurora	4.0L	1994-04	4T80E	GM84	37
Aurora	4.0L	1994-04	4T80E	GM86A	37
Bravada	4.2L	2002-04	4L60E	GM55	29
Bravada	4.3L	1990-94	700-R4	GM18A	27
Bravada	4.3L	1992-94	700-R4	GM18AH	27
Bravada	4.3L	1993-94	4L60E	GM18AH	27
Bravada	4.3L	1994-95	4L60E	GM31	28
Bravada	4.3L	1994-97	4L60E	GM35	28
Bravada	4.3L	1998-02	4L60E	GM35CW	28
Bravada	5.3L	2003-04	4L60E	GM92	29
Calais	2.3L	1987-91	125C	GM73	9
Calais	2.5L	1985-91	125C	GM73	9
Calais	3.0L	1985-87	125C	GM42	9
Calais	3.3L	1989-91	125C	GM71	9
Custom Cruiser	5.0L	1980-90	200-4R	GM15AL	12
Custom Cruiser	5.0L	1991-92	700-R4	GM18AL	27
Custom Cruiser	5.7L	1985	350C	GM20F	16
Custom Cruiser	5.7L	1991-92	700-R4	GM18AL	27
Cutlass	2.2L	1993-94	125C	GM42	9
Cutlass	2.2L	1993-96	125C	GM73	9
Cutlass	2.4L	1996-98	4T60E	GM73C	35
Cutlass	2.4L	1998-99	4T60E	GM73CW	35
Cutlass	2.5L	1982-92	125C	GM73	9
Cutlass	2.5L	1990	440-T4	GM73	34
Cutlass	2.8L	1982-89	125C	GM42	9
Cutlass	2.8L	1984-92	440-T4	GM42	34
Cutlass	3.0L	1982-88	125C	GM42	9
Cutlass	3.0L	1984-85	440-T4	GM42	34
Cutlass	3.1L	1991-93	125C	GM42	9
Cutlass	3.1L	1989-92	440-T4	GM42	34
Cutlass	3.1L	1997-99	4T40E	GM71C	34
Cutlass	3.1L	1991-97	4T60E	GM42	34
Cutlass	3.1L	1994-98	4T60E	GM71	34
Cutlass	3.1L	1997-99	4T60E	GM71C	34
Cutlass	3.3L	1989	125C	GM42	9
Cutlass	3.3L	1989-93	125C	GM63	9
Cutlass	3.3L	1990-96	125C	GM71	9
Cutlass	3.4L	1991-95	4T60E	GM42	34
Cutlass	3.4L	1996	4T60E	GM42C	35

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OLDSMOBILE (Cont.)					
Cutlass	3.4L	1996	4T60E	GM42CW	35
Cutlass	3.8L	1984-85	125C	GM71	9
Cutlass	3.8L	1980-87	200-4R	GM15	12
Cutlass	3.8L	1980-85	200C	GM15AH	13
Cutlass	3.8L	1984-88	440-T4	GM71	34
Cutlass	3.8L	1996-97	4T60E	GM71C	34
Cutlass	4.3L	1982-85	125C	GM63	9
Cutlass	5.0L	1982-88	200-4R	GM15AL	12
Cutlass	5.0L	1980-87	200C	GM15AL	12
Cutlass	5.7L	1982-85	200-4R	GM15AL	12
Cutlass	5.7L	1980-85	200C	GM15AL	12
Delta 88	3.0L	1986	440-T4	GM42	34
Delta 88	3.8L	1982-85	200-4R	GM15	12
Delta 88	3.8L	1980-85	200C	GM15	12
Delta 88	3.8L	1986-95	440-T4	GM71	34
Delta 88	3.8L	1986-95	440-T4	GM63	34
Delta 88	3.8L	1995-99	4T60E	GM71C	34
Delta 88	3.8L	1995-99	4T60E	GM63C	34
Delta 88	3.8L	1997-99	4T65E	GM50	36
Delta 88	3.8L	1999	4T65E	GM71CW	35
Delta 88	5.0L	1981-85	200-4R	GM15AL	12
Delta 88	5.0L	1980-85	200C	GM15AL	12
Delta 88	5.7L	1982-85	200-4R	GM19	13
Delta 88	5.7L	1980-85	200C	GM15AL	12
Delta 88	5.7L	1980-85	200C	GM19	13
Firenza	1.8L	1982-86	125C	GM73	9
Firenza	2.0L	1983-88	125C	GM73	9
Firenza	2.8L	1985-87	125C	GM42	9
Intrigue	3.5L	1999-02	4T65E	GM50	36
Intrigue	3.5L	1999-02	4T65E	GM52	36
Intrigue	3.8L	1998-99	4T65E	GM50	36
Intrigue	3.8L	1998-99	4T65E	GM71C	34
Intrigue	3.8L	1999	4T65E	GM71CW	35
LSS	3.8L	1996-97	4T60E	GM63C	34
LSS	3.8L	1996-99	4T60E	GM71C	34
LSS	3.8L	1997-99	4T65E	GM50	36
Regency	3.8L	1997	4T60E	GM63C	34
Regency	3.8L	1997	4T60E	GM71C	34
Regency	3.8L	1998	4T65E	GM50	36
Regency	3.8L	1998	4T65E	GM71C	34
Silhouette	3.1L	1990-94	125C	GM42	9
Silhouette	3.4L	1994-02	4T60E	GM71C	34
Silhouette	3.4L	1997-02	4T65E	GM71CW	35
Silhouette	3.8L	1993-94	125C	GM42	9
Silhouette	3.8L	1991-93	440-T4	GM71	34
Silhouette	3.8L	1991-93	4T60E	GM71	34
Toronado	3.8L	1986-90	440-T4	GM71	34
Toronado	3.8L	1991-92	4T60E	GM71	34
Toronado	5.0L	1982-85	325-4L	GM15AL	12
Toronado	5.7L	1982-85	325-4L	GM15AL	12
PLYMOUTH					
Conquest	ALL	1982-86	4N71B	DA8	181
Laser	1.8L	1989-90	KM176, F4A21	KM10HD	170
Laser	1.8L	1990-94	KM175, 177	KM12HD, KM12BHD	170
Laser (Turbo)	2.0L	1991-94	F4A33	KM14, KM14B	171
Neon	2.0L	2001	A604	CR42	110
Neon	2.0L	1995-01	A413, A470, A670	CR42	101
Voyager	2.4L	2002	A604	CR73	110
Voyager	3.0L	1997	A670	CR88	101
Voyager	3.3L	1992	A604	CR44	110
PONTIAC					
Aztek	3.4L	2001-02	4T65E	GM71C	34
Aztek	3.4L	2001-02	4T65E	GM71CW	35

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PONTIAC (Cont.)					
Bonneville	3.8L	1989-91	440-T4	GM63	34
Bonneville	3.8L	1989-91	440-T4	GM71	34
Bonneville	3.8L	1992-95	4T60E	GM63	34
Bonneville	3.8L	1992-95	4T60E	GM71	34
Bonneville	3.8L	1994-96	4T60E	GM71C	34
Bonneville	3.8L	1996-97	4T60E	GM63C	34
Bonneville	3.8L	1996-99	4T60E	GM71C	34
Bonneville	3.8L	1997	4T60E	GM63CW	35
Bonneville	3.8L	1997-99	4T60E	GM71CW	35
Bonneville	3.8L	1997-05	4T65E	GM53	36
Bonneville	3.8L	1997-05	4T65E	GM50	36
Bonneville	3.8L	2000-05	4T65E	GM53	36
Firebird	3.1L	1992	700-R4	GM58CHD	24
Firebird	3.4L	1993-94	700-R4	GM58CHD	24
Firebird	3.4L	1997	4L60E	GM58CWH	25
Firebird	3.8L	1995-98	4L60E	GM59CHD	24
Firebird	3.8L	1998-02	4L60E	GM58CWH	25
Firebird	3.8L	1998-02	4L60E	GM59CWH	24
Firebird	5.0L	1988-92	700-R4	GM18AL	27
Firebird	5.0L	1989-92	700-R4	GM18A	27
Firebird	5.7L	1998-02	4L60E	GM92	29
Firebird	5.7L	1993-97	700-R4	GM33	28
G5	2.2L	2007	4T40E	GM73CW	32
G6	3.4L	2005-07	4T40E	GM71CW	32
G6	3.5L	2005-07	4T40E	GM71CW	32
G6	3.6L	2007-09	6T70, 6T75	GM1241	42
Grand Am	2.2L	2002	4T40E	GM73CW	32
Grand Am	2.3L	1990-95	125C	GM73	9
Grand Am	2.3L	1994-95	4T60E	GM73CW	35
Grand Am	2.4L	1996-98	4T60E	GM73C	35
Grand Am	2.4L	1999-02	4T40E	GM73CW	32
Grand Am	2.5L	1985-91	125C	GM73	9
Grand Am	3.1L	1994-98	4T60E	GM71	34
Grand Am	3.3L	1992-93	125C	GM71	9
Grand Am	3.4L	1999-04	4T40E, 4T45E	GM71C	34
Grand Am	3.4L	1999-04	4T40E, 4T45E	GM71CW	32
Grand Prix	2.3L	1990-91	125C	GM73	9
Grand Prix	3.1L	1992-93	125C	GM42	9
Grand Prix	3.1L	1990-93	440-T4	GM42	34
Grand Prix	3.1L	1994-97	4T60E	GM42	34
Grand Prix	3.1L	1998-02	4T60E	GM42C	35
Grand Prix	3.1L	1999-02	4T65E	GM71C	34
Grand Prix	3.1L	1999-02	4T65E	GM71CW	35
Grand Prix	3.4L	1991-95	4T60E	GM42	34
Grand Prix	3.4L	1996	4T60E	GM42C	35
Grand Prix	3.4L	1996	4T60E	GM42CW	35
Grand Prix	3.8L	1996-97	4T60E	GM71C	34
Grand Prix	3.8L	1998-99	4T60E	GM42C	35
Grand Prix	3.8L	1997-06	4T65E	GM51	36
Grand Prix	3.8L	1997-06	4T65E	GM53	36
Grand Prix	3.8L	1997-06	4T65E	GM71C	34
Grand Prix	3.8L	1999-06	4T65E	GM71CW	35
Grand Prix	5.3L	2005-08	4T65E	GM53	36
GTO	5.7L	2004-Up	4L65E	GM92	29
GTO	6.0L	2004-Up	4L65E	GM92	29
Montana	3.4L	1998-01	4T60E	GM71C	34
Montana	3.4L	1999-04	4T65E	GM71CW	35
Montana	3.5L	2005-06	4T65E	GM53	36
Montana	3.9L	2005-07	4T65E	GM53	36
Sunbird	3.1L	1991-94	125C	GM42	9
Sunfire	2.0L	1995-97	125C	GM73	9
Sunfire	2.0L	1998-02	125C	GM73CW	9
Sunfire	2.2L	2000	125C	GM73C	9

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PONTIAC (Cont.)					
Sunfire	2.2L	1995-05	4T40E	GM73CW	32
Sunfire	2.3L	1995	125C	GM73	9
Sunfire	2.4L	1995-05	4T40E	GM73CW	32
Sunfire	2.4L	1995-97	125C	GM73	9
Sunfire	2.4L	1998-02	125C	GM73CW	9
Sunfire	3.1L	1998	4T40E	GM63CW	32
Torrent	3.4L	2006	AW55-50SN	TO79L	132
Torrent	3.6L	2007-09	6T70, 6T75	GM1241	42
Trans Sport	3.1L	1990-95	125C	GM42	9
Trans Sport	3.4L	1994-98	4T60E	GM71C	34
Trans Sport	3.8L	1992-93	4T60E	GM71	34
Trans Sport	3.8L	1994-98	4T60E	GM71C	34
Vibe	1.6L	2003	A246E	TO33	208
Vibe	1.8L	2003	A246E	TO33	208
Vibe	1.8L	2003-04	U340, U341	TO33	224
Vibe	1.8L	2005-06	A246E	TO22	208
Vibe	1.8L	2005-06	A246E	TO33	208
Vibe	1.8L	2009	U340E	TO33	224
PORSCHE					
Boxster	2.5L	2000-08	ZF5HP19	PCH54	250
Boxster	2.7L	2000-08	ZF5HP19	PCH54A	250
Cayenne	3.6L	2003-10	TR-60SN, 09D	PCH59	236
SAAB					
9.3	2.0L	2003-04	AW50-51SN	TO78	132
9.5	2.3L	1999-01	AW50-42LE	VO31	130
900	2.3L	1994-98	ZF4HP18	SA8	240
9000	2.0L	1987-89	ZF4HP18	BMW16	240
9000	2.3L	1987-90	ZF4HP18	SA7	240
9000	2.3L	1990-92	ZF4HP18	BMW16	240
9000 (Turbo)	2.0L	1985-90	ZF4HP18	SA4	240
900S	2.0L	1998	AW50-40LE	TO69	130
900S	2.3L	1996-97	AW50-42LE	TO69	130
900S	2.5L	2005	AW50-42LE	TO67	130
SATURN					
Aura (Hybrid)	2.4L	2006-09	4T45E	GM42CW	32
Aura	2.4L	2008-12	6T40, 6T45	GM1441	41
Aura XR	3.6L	2007-09	6T70, 6T75	GM1241	42
Ion	2.2L	2003-04	AW55-50	TO79	47
Ion	2.2L	2003-04	AW55-50	TO79L	47
Ion	2.2L	2003-04	VT25-E	GM96	47
Ion	2.2L	2004-07	4T40E	GM73CW	32
Ion Quad Coupe	2.2L	2003-04	VT25-E	GM96	47
Ion Sedan	3.0L	2002	AW55-50SN	TO79L	47
L-Series	2.2L	2003	4T40E	GM73CW	32
L-Series	3.0L	2000-05	4T45E	GM94	32
Outlook	3.6L	2007-09	6T70, 6T75	GM1241	42
SL	2.2L	2001	4T40E	GM73CW	32
S-Series	1.9L	1995-03	TAAT	GM80	47
Vue	2.2L	2002-05	VT25-E	GM96	47
Vue	3.0L	2004-06	AW55-50SN	TO79L	47
Vue	3.5L	2004-07	MDRA	HO82	47
Vue	3.5L	2007-11	6T70, 6T75	GM1242	42
Vue	3.6L	2007-11	6T70, 6T75	GM1241	42
SUBARU					
1800	1.8L	1983-86	M41	SU8	194
Baja	2.5L	2003-06	R4AX-EL	SU16	197
Forester	2.5L	1998-06	R4AX-EL	SU14HS	196
Forester	2.5L	1998-06	R4AX-EL	SU16	197
Forester	2.5L	1998-06	R4AX-EL	SU17	197
Forester	2.8L	1998-06	R4AX-EL	SU14HS	196
Forester	2.8L	1998-06	R4AX-EL	SU16	197
Forester	2.8L	1998-06	R4AX-EL	SU17	197
GL (4WD)	1.8L	1986	M41	SU9	194

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SUBARU (Cont.)					
GL Wagon Turbo	1.8L	1987	M41	SU10	194
GL Turbo	1.8L	1985-86	M41	SU7	194
Legacy	2.0L	2009-12	CVT Lineartronic	SU3301	199
Legacy	2.2L	1990-92	R4AX-EL	SU11	196
Legacy (Incl Turbo)	2.2L	1991-06	R4AX-EL	SU13	196
Legacy	2.2L	1998	R4AX-EL	SU15	197
Legacy	2.2L	1999	R4AX-EL	SU18	197
Legacy	2.2L	1983-85	M41	SU5	195
Legacy	2.5L	1999	4EAT	SU17	197
Legacy	2.5L	2000	R4AX-EL	SU16	197
Legacy	2.5L	2005-12	5EAT	SU6301	198
Legacy	2.5L	2009-12	CVT Lineartronic	SU3301	199
Outback	2.5L	1997-07	4EAT	SU14HS	196
Outback	2.5L	1997-04	4EAT	SU17	197
Outback	2.5L	1997-04	R4AX-EL	SU15	197
Outback	2.5L	1997-04	4EAT	SU16	197
SVX	3.3L	1992-97	R4AX-EL	SU14	196
Tribeca	3.6L	2006-12	5EAT	SU6302	198
SUZUKI					
Aerio	2.0L	2002-03	AW60-40LE	TO62	133
Esteem	1.8L	1995-02	AW60-40LE	TO62	133
Forenza	2.0L	2004-08	ZF4HP16	ZF1890	242
Grand Vitara	2.0L	1999-03	03-72LE (A44DE)	TO39	202
Sidekick	1.6L	1992-98	03-72LE (A44DE)	TO23	203
Sidekick	1.8L	1992-98	03-72LE (A44DE)	TO23	203
Swift	1.3L	1989-01	MX17	TO29	207
Swift	1.3L	1989-91	MX17	TO30	207
Vitara	2.0L	2000-02	03-72LE (A44DE)	TO37	202
Vitara	2.5L	2000-02	03-72LE (A44DE)	TO39	202
X-90	1.6L	1996-98	03-72LE (A44DE)	TO23	203
XL7	3.6L	2007-08	AW55-50SN	TO79L	132
XL7	2.7L	1996-98	03-72LE (A44DE)	TO39	202
TOYOTA					
4Runner	2.4L	1984-95	A340	TO40B	211
4Runner	2.4L	1984-95	A340	TO18B	210
4Runner	2.7L	1997-99	A340	TO59	211
4Runner	2.7L	1996-00	A340	TO40B	211
4Runner	2.7L	1996-00	A340	TO18B	210
4Runner	3.0L	1995	A340	TO18C	210
4Runner	3.0L	1988-97	A340	TO59	211
4Runner	3.0L	1988-97	A340	TO18B	210
4Runner	3.0L	1988-00	A340	TO40B	211
4Runner	3.4L	1989-02	A340	TO59	211
4Runner	4.0L	2003-12	A750E	TO14701	219
4Runner	4.7L	2004	A750E	TO70	219
4Runner	4.7L	2004-05	A750E	TO71	219
Avalon	3.0L	1997-02	A541E	TO55A	217
Avalon	3.5L	2007	U151E	TO55A	222
Avalon	3.5L	2005-07	U151E	TO55L	222
Camry	1.8L	1997	A245E	TO19	208
Camry	2.0L	1989	A140E	TO42, TO42B	209
Camry	2.0L	1990-92	A540H	TO53LS	216
Camry	2.0L	1990-92	A140	TO18	209
Camry	2.2L	1992	A140	TO18	209
Camry	2.2L	1992-00	A140	TO42, TO42B	209
Camry	2.4L	2006	A246E	TO22	208
Camry	2.4L	2002-05	U241E	TO42, TO42B	220
Camry	2.4L	2002-05	U241E	TO75	220
Camry	2.4L	2005-07	U250E	TO42, TO42B	222
Camry	2.5L	1989	A140E	TO51	209
Camry	2.5L	1990	A540	TO51	217
Camry	3.0L	1988-01	A540	TO55	217
Camry	3.0L	1990	A140	TO42, TO42B	209

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Camry	3.0L	1993	A540	TO42, TO42B	216
Camry	3.0L	2001	A541E	TO55A	217
Camry	3.0L	2002-03	U140E	TO55	221
Camry	3.0L	2002-06	U151E	TO55L	222
Camry	3.5L	2006-12	U660E	TO4701	226
Celica	1.6L	1990-91	A240	TO33	208
Celica GTS	1.8L	2000-04	U240E	TO73	221
Celica	1.8L	2000-01	U240E	TO33L	221
Celica	1.8L	2000-03	U341E	TO73	225
Celica	1.8L	2002	U341E	TO78	225
Celica	2.0L	1986	A140L	TO18	209
Celica	2.2L	1990	A240	TO33	208
Celica	2.2L	1994-99	A140E	TO42, TO42B	209
Corolla	1.6L	1987-88	A130, A131	TO19	208
Corolla	1.6L	1990	A130, A131	TO33	208
Corolla	1.6L	1991-98	A130, A131	TO33	208
Corolla	1.6L	1991-98	A130, A131	TO19	208
Corolla	1.8L	1990	A40	TO10	200
Corolla	1.8L	1996-07	A245E	TO22	208
Corolla	1.8L	2001-07	A245E	TO33	208
Corolla	1.8L	2006-07	A245E	TO58	208
Corolla	1.8L	1999	U240E	TO33L	221
Corolla	1.8L	2005	U340E	TO22	224
Corolla	1.9L	1997	A245E	TO33	208
Cressida	2.8L	1987-88	A340	TO40B	211
Cressida	3.0L	1989-92	A340	TO40B	211
Cressida	3.0L	1990	A340	TO18B	210
Cressida	3.0L	1990	A340	TO18C	210
Echo	1.5L	2000-05	U340E	TO22	224
FJ Cruiser	4.0L	2007-12	A750E	TO14701	219
Highlander	2.4L	2001-07	U140	TO42, TO42B	220
Highlander	3.0L	2001-07	U140	TO55A	221
Highlander	3.0L	2001-07	U140E	TO55L	221
Highlander	3.3L	2004-08	U150E	TO55L	222
Land Cruiser	3.0L	2005	A750E	TO14701	219
Land Cruiser	4.0L	2007	A750E	TO14701	219
Land Cruiser	4.2L	1999	AW450-43LE	TO63	135
Land Cruiser	4.7L	1996-02	A343F	TO44A	214
Land Cruiser	4.7L	2000-12	A750F	TO71	219
Matrix	1.8L	2003-08	A246E	TO22	208
MR2	1.6L	1992	A241E	TO58	208
MR2	2.2L	1989-91	A241E	TO42, TO42B	209
Paseo	1.5L	1995	A244E	VO29	212
Pickup	2.2L	1983-93	A40D	TO15	201
Pickup	2.4L	1978-95	A40D Series	TO12	201
Pickup	2.4L	1985-93	A340	TO40B	211
Pickup	2.4L	1994-95	A340	TO59	211
Pickup	2.4L	1985-95	A340	TO18B	210
Pickup	2.6L	1988	AW372	TO25	201
Pickup	3.0L	1988-95	A43D	TO12	201
Pickup	3.0L	1988-95	A340	TO40B	211
Pickup	3.0L	1988-95	A340	TO18B	210
Previa	2.4L	1994-97	A340	TO45	202
Previa (SC)	2.4L	1993-97	A340	TO59	211
RAV4	2.0L	1996-97	A540E	TO42, TO42B	216
RAV4	2.0L	2000-07	U140, U240	TO75	220
RAV4	2.4L	2002-07	U140	TO75	220
Sequoia	4.7L	2001-06	A340	TO44A	214
Sequoia	4.7L	2005-08	A750E	TO71	219
Sienna	3.0L	1998-03	A541E	TO55	217
Sienna	3.0L	2001	A541E	TO55A	217
Sienna	3.0L	2001	A541E	TO55L	217

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Model	Engine	Year	Transmission	Part #	Page #
TOYOTA (Cont.)					
Sienna	3.3L	2004-07	U151E	TO55L	222
Sienna	3.5L	2004-07	U151E	TO55L	222
Solara	2.4L	2002-05	U241E	TO42, TO42B	216
Supra	3.0L	1989	A341E	TO40B	211
Supra	3.0L	1995	A341E	TO59	211
Supra	3.0L	1987-98	A340	TO40B	211
T100	3.4L	1996	A340	TO59	211
T100 (Lock-Up)	3.4L	1995-98	A340	TO40B	211
T100 (Non Lock-Up)	3.4L	1995-98	A340	TO60	211
T100	2.7L	1994-98	A340	TO40B	211
T100	3.0L	1993-94	A340	TO40B	211
T100	3.0L	1993-94	A340	TO18B	210
Tacoma	2.0L	2006	A340	TO59	211
Tacoma	2.4L	1991	A43D	TO18A	203
Tacoma	2.4L	1995-01	A43D	TO60	201
Tacoma	2.4L	2000	A43D	TO12	201
Tacoma	2.4L	1995-98	A340	TO40B	211
Tacoma	2.4L	1995-98	A340	TO18B	210
Tacoma	2.4L	1997-00	A340	TO59	211
Tacoma	2.7L	1995-98	A43D	TO12	201
Tacoma	2.7L	1995-99	A340	TO40B	211
Tacoma	2.7L	1995-99	A340	TO18B	210
Tacoma	2.7L	1997-05	A340	TO59	211
Tacoma	3.4L	1995-96	A43D	TO12	201
Tacoma	3.4L	1995-96	A340	TO40B	211
Tacoma	3.4L	1995-96	A340	TO18B	210
Tacoma	3.4L	1995-02	A340	TO59	211
Tacoma	3.4L	1997-01	A340	TO59	211
Tacoma	4.0L	2005-12	A750E	TO14701	219
Tercel	1.5L	1989-96	A130	TO33	208
Tundra	3.4L	2000-04	A340E	TO59	211
Tundra	3.4L	2000-04	A340	TO44A	214
Tundra	4.0L	2005-12	A750E	TO14701	219
Tundra	4.7L	1999-04	A340	TO44A	214
Tundra	4.7L	2005-12	A750E	TO71	219
Tundra	5.7L	2007-12	A750E	TO15701	219
Yaris	1.5L	2008	U340E	TO71	225
VOLKSWAGEN					
Beetle (Bearing In Center)	1.8L	1998-03	01M	VW21	238
Beetle (Hollow Center)	1.8L	1998-03	01M	VW20	238
Beetle	1.8L	2004-05	09G	VW1503	237
Beetle (Bearing In Center)	1.9L	1998-03	01M	VW21	238
Beetle (Hollow Center)	1.9L	1998-03	01M	VW20	238
Beetle	1.9L	2004-05	09G	VW1503	237
Beetle (Bearing In Center)	2.0L	1998-03	01M	VW21	238
Beetle (Hollow Center)	2.0L	1998-03	01M	VW20	238
Beetle	2.0L	2003-10	09G	VW1503	237
Cabrio	2.0L	1995-02	01M	VW21	238
Eurovan	2.5L	1993-95	098	VW17	238
Eurovan (Bearing In Center)	2.8L	1997-03	01N, 01P	VW21	238
Eurovan (Hollow Center)	2.8L	1997-03	01N, 01P	VW20	238
Golf	1.9L	2000-07	09A (JF506E)	VW9802	235
Golf (2 Sets Of Splines)	2.0L	1993-96	096	VW20	238
Golf (3 Sets Of Splines)	2.0L	1993-96	096	VW17	238
Jetta	1.8L	2002-08	09A (JF506E)	VW9800	235
Jetta	1.9L	1986	010, 087, 089, 090	VW13	239
Jetta	1.9L	2002-08	09A (JF506E)	VW9802	235
Jetta (Bearing In Center)	1.9L	2002-05	01M	VW21	238
Jetta (Hollow Center)	1.9L	2002-05	01M	VW20	238
Jetta (Bearing In Center)	2.0L	1993-99	01M	VW21	238
Jetta (Hollow Center)	2.0L	1993-99	01M	VW20	238
Jetta	2.5L	2005-11	09G TF-60SN	VW1502	237
Jetta (Bearing In Center)	2.8L	1999-06	01M	VW21	238

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Model	Engine	Year	Transmission	Part #	Page #
VOLKSWAGEN (Cont.)					
Jetta (Hollow Center)	2.8L	1999-06	01M	VW20	238
Jetta	2.8L	2002-08	09A (JF506E)	VW9801	235
Passat	1.8L	1998-06	ZF5HP19	AU11	250
Passat	1.8L	2004-06	ZF5HP19	AU26	250
Passat	2.0L	1990-94	095, 096	VW18	238
Passat	2.0L	2004-06	ZF5HP19	AU11	250
Passat	2.0L	2004-06	ZF5HP19	AU26	250
Passat	2.8L	1994-97	095, 096	VW17	238
Passat	2.8L	1997-00	ZF5HP19	AU11	250
Passat	2.8L	1998-05	ZF5HP19	AU13	250
Passat	2.8L	1998-05	ZF5HP19	AU24	249
Passat	2.8L	1998-01	ZF5HP19FL	AU23	249
Passat	2.8L	1998-05	ZF5HP19FL	AU22	249
Passat	4.0L	2001-Up	ZF5HP19FL	AU24	249
Rabbit	2.5L	2006-09	09G	VW1502	237
VOLVO					
240	2.3L	1989-91	AW70	VO19	204
570 (Turbo)	2.4L	1998	AW50-42LE	VO31	130
740	2.3L	1987	ZF4HP22	BMW22	244
740	2.3L	1991	AW70L	VO20	205
740	2.3L	1984-90	ZF4HP22	VO13	245
740	2.3L	1988-92	ZF4HP22	VO26	246
740GLE	2.3L	1984-90	ZF4HP22	VO10	244
760	2.8L	1984-85	AW71	VO23	204
760GLE (Turbo)	2.3L	1985-90	ZF4HP22	VO15	245
760D	2.4L	1984-90	ZF4HP22	VO13	245
850	2.3L	1993-97	AW50-40LE	VO28	130
850	2.4L	1993-97	AW50-40LE	VO28	130
940 (Turbo)	2.3L	1993	AW71	VO19	204
960	2.9L	1991-97	A340	VO29	212
960	2.9L	1991-97	AW30-40LE	VO24	213
960	2.9L	1991-97	AW70, AW71	VO25	205
960	2.9L	1991-97	AW71	VO24	205
960	2.9L	1993-97	AW30-40LE	TO26	212
960 Wagon	2.9L	1991-97	A340	VO29	212
B70X	ALL	2001	AW55-50SN	TO68	132
C70	2.4L	2002-03	AW55-50SN	TO68	132
Cross Country	2.4L	2002-03	AW55-50SN	TO68	132
S40	2.4L	2001-05	AW55-50SN	TO68	132
S60	2.4L	2001-05	AW55-50SN	TO68	132
S60	2.5L	2001-05	AW55-50SN	TO68	132
S70	2.3L	1998-00	AW50-42LE	VO31	130
S80	2.5L	1999-06	4T65E	VO32	36
S80	2.5L	2004-06	AW55-50SN	TO68	132
S80	2.9L	1999-06	4T65E	VO30	36
S90	2.9L	1997-98	A341E	VO25	213
V70XL	2.5L	2001	AW55-50SN	TO68	132
XC90	2.5L	2003-05	4T65E	VO32	36
XC90	2.5L	2004-06	AW55-50SN	TO68	132
XC90	2.9L	2003-05	4T65E	VO32	36
XC90	4.4L	2005-11	TF-80SC	VO3901	88

HOW TO MEASURE

HOW TO MEASURE			
			
Bolt Circle Center of Pad to Center of Pad	Bolt Radius (x 2 = Bolt Circle) Center of Pad to Center of Pilot	Diameter - Overall Outside of Conv. (Not Ring Gear)	Diameter - Turbine Outside of Turbine (Internal)
			
Hub Diameter Outside of Hub	Hub Height Top of Hub to Base	Hub Flange Outside of Flanged Area	Mounting Ring - Inner Inside of Ring to Inside of Ring
			
Mounting Ring - Outer Outside of Ring to Outside of Ring	Overall Height w/ Pads Top of Pad to Top of Hub	Overall Height w/ Studs Top of Stud Base to Top of Hub	Overall Height w/ Ring Top of Mounting Ring to Top of Hub
			
Pad Height Outside of Pad to Converter	Pilot Diameter Outside of Pilot	Pilot Height Top of Pilot to Top of Hub	Pilot Stepped Measure Both Steps
			
Ring Gear (Narrow) Converter to Outside of Gear	Ring Gear (Wide) Converter to Outside of Gear	Ring Gear Thickness Thickness of Gear	Ring Gear Height Top of Gear to Top of Hub

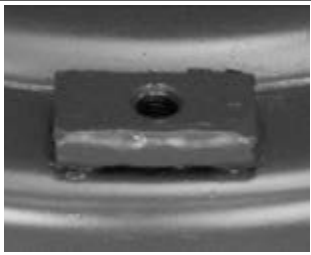

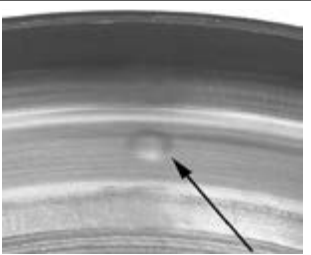

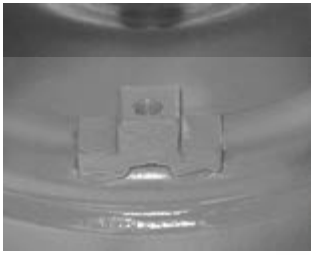
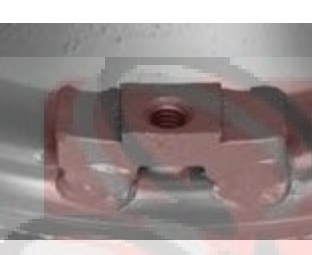
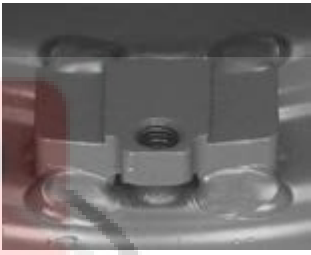
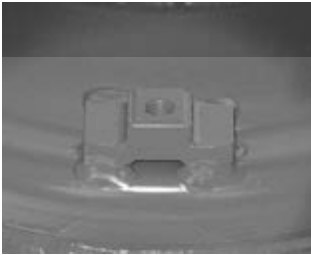
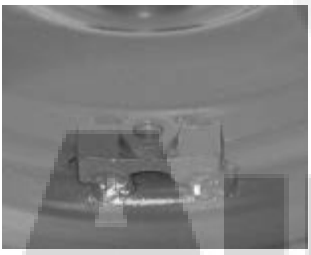


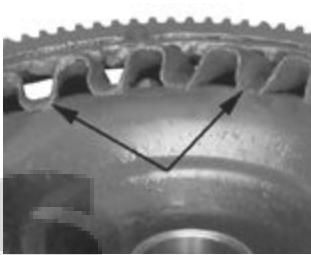





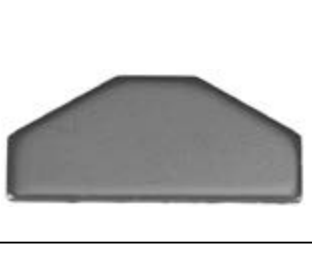


GLOSSARY

GLOSSARY	
Bolt Circle Diameter	The measurement between two mounting points (bolt holes or studs) that are 180 degrees opposed. NOTE: Always measure from "center to center".
Bolt Pattern - 90°	Typically refers to 4 pad Chrysler converters with pads equally spaced in relation to one another. The distance (center to center) is the same when measuring adjacent pads
Bolt Pattern - Offset	Typically refers to 4 pad Chrysler converters with pads NOT equally spaced in relation to one another. The distance (center to center) is DIFFERENT when measuring adjacent pads
Bolt Circle Radius	The measurement between the center of one mounting point (bolt hole or stud) and the center of the pilot. Bolt Circle Radius x 2 equals Bolt Circle Diameter.
Brazing	The practice of reinforcing fins in either the primary (impeller) or the turbine. Brazing can be done manually with a TIG welder, or can be done via a method where components are placed in a special oven or furnace.
Coast Relief Valve	a.k.a. Poppet Valve. Pressure relief mechanism in converter to release TCC (torque converter clutch) while coasting.
Cover	a.k.a. "front cover". The half of the converter outer shell that mounts to the engine drive plate. The cover typically has the pilot and mount pads (or studs) incorporated into it.
Datum Plane Generation	The proprietary RECON Reman process that insures component "parallelism & perpendicularity".
Diameter, Overall	The largest width measurement of the converter not including a ring gear, mount ring or inertia ring if attached.
Elliptical	Low profile oval shaped converter
End Play	Internal component clearance measurement. Not the same as clutch clearance.
Fin Angle	Typically refers to the angle of the 'dimples' or 'ribs' on the exterior of the impeller (primary). Fin Angle is one variable that controls the stall speed of the converter.
Friction Material - LCC	Paper with Low Carbon Content (Only a small percent is carbon)
Friction Material - Paper	Paper (Organic, Cellulose Based)
Friction Material - WC	Woven Carbon (100% Carbon)
Hub	Component of the converter that inserts into the pump of the transmission. Hubs may or may not have 'flats', 'slots' or 'ears' that are used to drive the transmission pump, depending on application.
Impact Gun	Pneumatic tool typically used by mechanics to quickly tighten or loosen fastening nuts or bolts. NOTE: never use an impact gun to fasten converters to engine drive plates.
Impeller	a.k.a. Primary. Half of the converter outer shell that has curved fins/blades attached to the inside. The impeller is the driving member of the converter. Typically, the converter hub is incorporated into the 'impeller half' of the unit.
Input Splines	The splines on the input shaft that connect to the converter driven member (Turbine)
Lock Up	Term used to describe converter function where a friction element inside the converter is hydraulically applied so that a direct and mechanical link is made between the engine and transmission.
Lock Up - Captive Clutch	Type of clutch pack lock up that has inaccessible friction components due to unique and proprietary OE designs. Typically found in ZF 5HP19 and 5HP24 converters.
Lock Up - Centrifugal	Type of lock up that is achieved and controlled by centrifugal force within the converter. This type of lock up function is not controlled electronically or hydraulically.
Lock Up - Clutch Pack	Type of lock up that uses a clutch pack similar to clutch drums found in the transmission. Friction and steel plates are serviceable and held in place with a snap ring.
Lock Up - Clutch Piston	Most common type of lock up. Uses a single 'spring dampened' piston and a single friction element.
Lock Up - Damper Drive	Type of lock up where a clutch pack in the transmission is driven by an independent shaft that is splined into a spring dampened drive plate that is fastened to the inside of the converter cover

GLOSSARY	
Lock Up - Multi Friction Clutch	Type of clutch piston lock up that uses more than one friction element
Lock Up - On / Off	Term used to describe characteristics of lock up control. "On-Off" indicates that the friction elements in the converter are either fully applied, or fully released. Application does not call for the converter clutch to be 'partially slipped'
Lock Up - PWM	Type of lock up control that allows the converter clutch to partially 'slip' during normal operation. "PWM" refers to Pulse Width Modulation. A PWM system typically incorporates valve body, solenoid and software components that can pulse (as opposed to simply turn off) release oil to the converter clutch assembly. Converter clutches can be slipped very briefly, or over extended periods of time, depending upon application. Different OEMs use different techniques in different applications; therefore not all PWM systems are the same. Typically, the converter clutch assembly is calibrated to the type of PWM system that is used in a specific application. Mismatching non PWM torque converters into PWM equipped applications (and vice versa) can cause drivability problems and premature failure.
ECCC (EC3, EC ³)	Electronic Converter Clutch Control (ECCC) is a proprietary type of PWM control of the converter clutch that was introduced by General Motors into some applications as early as 1996. ECCC (also known as EC3 or EC3) strategy can continuously slip the converter clutch for very long periods of driving. ECCC typically requires use of woven carbon (or equivalent) friction material that can endure the heat generated by this style of PWM. The most reliable way to determine if a vehicle uses ECCC strategy is to connect a scan tool to the vehicle and monitor the method by which lock up is applied.
Pads, Lugs, Studs	Types of ways that the converter can be attached to the engine flex plate or flywheel.
PCM	Power Control Module. Can also be referred to as TCM, ECM, VCM, or simply 'the computer'. Hardware and software that controls electronic functions of the transmission in 'computer controlled' applications.
Pilot	The part of the cover that is inserted into the engine crankshaft when installing a torque converter,
Overall Converter Height	Measured from the leading edge of the hub to the surface of the converter that sits against the flex plate.
Run Out	Measurement of converter components as they deviate from centerline. Typically, run out is measured from 'pilot to hub', and is recorded as "TIR" (total indicated run out). There are many variables and methods used to measure run out, and different methods will produce different results
Stall Speed	Hypothetical maximum engine RPM measurement with the input shaft of the transmission locked in place. This is how fast the engine can spin the outside shell of the converter with the inner turbine locked in place. Stall speed is dependent upon the power characteristic of the engine that is driving the torque converter. The same converter will have a different stall speed when placed behind different engines.
Stator	Component of the torque converter that is separate and independent from the outer shell of the converter. When installed on the transmission, the stator is splined onto stator support splines. Stator typically contains a roller clutch or sprag assembly that allows one way rotation.
Stator Support	Stationary splines in the transmission that supports the stator inside of the converter.
Turbine	Component of the torque converter that is separate and independent from the outer shell of the converter. The turbine is the driven member of the converter that is splined to the input shaft of the transmission.
Weights - (Converter)	Converter balance weights: Balance weights attached to the converter that are in place to balance the torque converter. These smaller weights are typically between 5 and 20 grams
Weights - (Engine Balance)	Engine counter balance weights: Balance weights attached to the converter that are in place to balance the engine crankshaft. These larger weights are typically between 60 and 120 grams

GLOSSARY

GLOSSARY			
			
Alignment Pin	Boss	Cooling Shroud	Drain Plug
			
Hub - Bushing	Hub - Ears (Tabs)	Hub - O-Ring (Not Included)	Hub - Milled Flats
			
Hub - Slotted	Hub - Smooth Round	Hub - Splined	Impeller - Ribbed (Dimples)
			
Impeller - Smooth	Hub - (Non Flanged)	Hub (Flanged)	Inertia Ring
			
Mounting Ring w/ Threaded Holes (No Dowels)	Mounting Ring w/ Threaded Holes & Dowel Holes	Pad - Stud	Pad - Extended Stud

GLOSSARY			
			
Pad - Chrysler Short	Pad - Chrysler Tall	Damage to Cover by Using the Wrong Bolt.	Caution! Use the correct length of bolt!
			
Pad - GM 245 mm Rwd	Pad - GM 245 mm Fwd (Exc 245 mm Viscous Clutch)	Pad - GM 258 mm Rwd (Also 245 mm Viscous Clutch)	Pad - GM 280 & 300 mm Rwd
			
Pad - GM 298 mm RWD Rectangular	Pad - GM 298 mm RWD Round	Pad - GM 300 & 280 mm Rwd	Scallops
			
Shafts - Input, Non Lock Up (Solid & no Rings or O-rings)	Shafts - Input, Lock Up (Hollow w/Rings or O-rings)	Stall - Low Compare Fin Angles	Stall - Medium Compare Fin Angles
			
Stall - High Compare Fin Angles	Weight - Butterfly	Weight - 91 Gram	Weight - Rectangular

CONVERTER CODES

Codes	Part #	Codes	Part #	Codes	Part #	Codes	Part #
01	DA48	01B13	TO33L	13	TO73	52	KM10HD
01	FM61	01INK	TO55A	14	FM61R	52	KM12BHD
01	TO55A	01M	VW21	14	TO33L	52	KM12HD
01	VO31	01V	AU20	14	TO75	53	FM61
002	CR42	01X	TO44	15	FM61M	54	FM38
02	DA48	023K	TO45	15	HO57	54	FM48
02	TO55L	0302A	TO44A	15	TO42B	54	FM71H
03	FM61C	030929E	FM90	#15 Bar Code	TO42	54	KM12BHD
03	TO26-20	0316C	DA54	#15 Bar Code	TO42B	54	KM12HD
03	TO59	0320C	DA54	#16A Bar Code	TO64	55	FM59A
03	TO8901	0329C	DA54	16	SU16	56	FM38
003	VW11	04752603AA	CR7801	17	FM61	56	FM48
04	FM61C	04753520AA	CR1320	18	FM59	56	FM71
04	HO3000	04753520AB	CR1320	18	FM60	56	KM10HD
04	HO3001	04753524AA	CR0920	19	FM71	56	KM12BHD
04	TO55L	04753524AB	CR0920	19	TO33L	56	SU16
04	TO65	04753527AA	CR0921	19	TO73	57	FM39
05	DA48	04753534AA	CR0920	19	VW9801	58	FM72C
05	TO22	04753534AB	CR0920	20	FM71	58	SU16
05	VW59	04753534AC	CR0920	20	PCH59	59	FM71
06	BMW17	04753556AA	CR1320	21	BMW52	59	HO59
06	DA48	04753556AB	CR1320	21	TO42B	61	HO61
06	FM61	04753556AC	CR1320	21	TO75L	63	FM71H
06	SU16	04F22	KM9901	22	KM19	64	FM128
07	BMW25	04G20	KM9901	22	TO75	64	FM59A
07	FM61C	05A010	TO71	23	AU26	65	DA28
07	TO33	05Y	FM3901	23	VW9802	65	FM128
07	TO9701	06A28071	GM1991	24	FM61R	66	FM71H
08	DA48	071-202-2620	MB37	25	FM61M	67	FM71H
08	FM61M	072-08122	VW1502	25	HO63	68	HO68
09	TO65	079-00937	VW1501	25	HO80	68	KM12BHD
010	TO14701	07E14A	CR9901	26	FM61R	68	KM12HD
010	TO44A	096AB	MB18B	27	FM61	69	FM71H
012	DA42	09D-232-5215	PCH59	27	FM61C	70	DA85
018	DA48	09D-323-5215	PCH59	27	HO62	70	DA85L
019	TO45	09D-323-571T	VW59	28	FM59	70	SU6301
039	CR44	09G-323-571A	VW1501	29	FM71C	70	TO22
040	CR44	09G-323-571D	VW1502	30	FM71	70	VO22
058	CR35	09G-323-571E	VW1503	31	FM71	71	DA85
068	CR43	09G-323-571G	VW1503	32	FM71	71	FM72C
070	TO22	0L	TO44	33	KM12BHD	71	KM11HD
072	CR40	2	CR73	34	FM61	72	FM71
073	DA85	3	HO58	35	FM61C	72	FM71H
076	CR45	4	HO66	36	FM60	73	AU13
085	CR62	4	HO77	37	FM61R	73	FM71C
087	CR61	4	HO79	38	FM61M	73	FM71H
087	DA85	5	HO62	38	KM22	74	FM71
090	VW13	5	HO71	39	FM3901	74	FM71C
095	VW17	5	HO79	40	FM61	74	FM71H
095	VW18	5	TO66	40	TO3701	74	SU15
096	VW17	6	HO72	41	KM15	75	FM71
03679	BMW12901	6	HO80	41	KM15B	76	FM71
030417	TO73	7	HO59	41	TO3701	76	KM12BHD
0406220417	TO42B	7	HO66	42	DA57	76	KM12HD
0609290996	FM4800	8	HO58	42	FM59	76	SU14
000-010	BMW95A	8	HO61	43	FM61R	76	SU17
000-014	AU14	8	TO22	44	FM71	77	FM71
000-193	BMW95A	10	FM61R	45	FM71	77	SU17
001-S	SU11	11	FM61M	45	HO61	78	KM13
002B	CR47	11	TO42B	46	FM61C	79	FM71
002B	CR97	11	TO66	47	FM61C	79	FM71H
003R	TO59	11	TO75L	49	DA31	79	SU17
010-0328	BMW12901	11	TO97	49	FM38	80	FM71H
011P	TO53LS	12	FM61C	49	FM48	84	FM38
016Y	TO53LS	12	TO73	49	FM71C	84	FM48
017V	TO53	13	DA31L	51	FM59	85	FM48
018S	TO53LS	13	HO57	51	FM59A	86	KM12BHD
019N	TO45	13	TO33L	51	KM10HD	86	KM12HD

CONVERTER CODES

Codes	Part #	Codes	Part #	Codes	Part #	Codes	Part #
89	KM12BHD	344	CR42	737	DA24	1058020004	AU13908
89	KM12HD	344	CR73	740	SU15	1058020007	AU13908
90	BMW17	364	GM88H	746	CR78	1058020009	AU13908
90	SU16	366	GM82	749	GM87	1058020014	AU13908
91	SU16	369	CR40	761	CR39	1058020015	AU13908
95	SU18	370	CR39	761	CR39K	1058020021	AU13908
96	FM71H	370	CR39K	767	CR94L	1058020030	AU13909
113	PG8	375	CR45	775	CR45	1058020031	AU13908
121	CR62	379	CR73	784	CR90	1058020033	AU13908
131	CR36	380	GM88H	785	CR90	1060000005	BMW62
136	CR41	395	CR44	785	CR94	1060000008	BMW61
137	CR41	431	TO68	787	CR94L	1060000009	BMW63
138	CR46	431	TO78	795	CR90	1060000010	BMW12901
138	CR72	432	CR40	799	CR46	1060030005	AU20
140	SU6302	433	TO68	803	CR46	1060030011	AU22
143	CR39	433	TO77	820	FM90	1060030021	AU23
146	CR47	433	TO78	825	GM88H	1060030027	AU23
146	CR97	433	TO79L	829	GM88	1060030059	AU22
147	CR73	434	TO79	830	GM88H	1060030088	AU22
150	SU16	437	TO77	831	GM88H	1060040002	AU20
154	KM12BHD	444	CR42	842	CR64	1060040012	AU23
154	KM12HD	444	CR73	849	GM81	1060040013	AU23
161	CR39	447	CR0621	850	SU16	1060040035	AU22
170	KM5HD	466	CR35	850	SU16B	1060040036	AU23
170	SU3301	476	CR45	861	GM88H	1060040065	AU22
193	GM82	479	CR73	863	CR66	1060040100	AU24
194	GM81	492	GM81	868	CR70L	1060040101	AU11
202	TO22	506	CR65	868	CR70X	10A610	TO23
210	A7XH	526	GM82	868	CR94L	10A610	TO39
210	AL1211	528	GM81	878	CR63	11A	BMW36
211	A7X	534	CR36	878	CR64	11A	FM55B
211	AL1210	540	FM71H	879	CR63	11B	TO47L
215	HO69	543	CR80	881	CR79	11P	TO53LS
216	HO69	544	CR42	901	SU16	123-250-0202	MB39
221	A7XL	544	CR73	910	SU16B	123-250-0402	MB42
221	AL1212	549	CR91	925	DA24	124-250-0002	MB33
244	CR42	550	CR45	936	CR36	124-250-0302	MB33
244	CR73	550	CR46	956	CR46	124-250-0902	MB33
250	CR62	576	GM81	956	CR72	124-250-1002	MB33
250	CR73	595	CR44	956	CR73	124-250-1702	MB33
260	FM18	595	CR70L	957	CR63	12491317	GM53
270	A3HD	595	CR94	1008280456	KM34	12491318	GM92
274	CR36	596	CR90	1055000010	BMW32	12491334	GM88H
275	A3HD	596	CR94	1055000011	BMW32	12491978	GM50
289	FM18	596	CR94L	1055000017	BMW80	12491978	GM51
290	A6HD	597	CR35	1055000026	BMW32	12491980	GM53
290	TO22	597	CR72	1055000027	BMW80	126-250-0002	MB32
290	TO33	599	CR93	1055000028	BMW80	126-250-0145	MB30
302	FM18	601	GM82	1055000029	BMW32	126-250-0902	MB32
305	CR42	603	GM1991	1055000030	BMW32	126-250-1102	MB37
305	CR73	604	GM82	1055000031	BMW32	126-250-1202	MB38
305	TO81	606	GM81	1055000032	BMW80	126-250-1302	MB32
310	TO14701	626	CR42	1055000039	BMW80	126-250-1402	MB38
311	CR45	633	CR65	1055000040	BMW80	126-250-1502	MB30
311	CR47	634	CR70L	1056000088	BMW35	126-250-1602	MB30
311	CR73	634	CR70X	1058000005	BMW13900	126-250-1702	MB30
311	CR97	636	CR46	1058000009	JA13906	126-250-2302	MB30
316	CR46	636	CR72	1058000013	JA13906	126-250-3402	MB37
316	CR72	642	CR64	1058000014	JA13905	13A	FM55B
320	TO14701	643	CR64	1058000015	JA13906	140-250-0402	MB19
320	TO70	644	CR70L	1058000016	BMW13900	140-250-0502	MB19
324	CR29	671	GM81	1058000021	BMW13901	140-250-0602	MB19A
324	CR67	675	GM81	1058000022	BMW13902	140-250-0802	MB19A
325	CR54L	678	GM81	1058000024	JA13905	140-250-0902	MB19A
330	TO70	679	CR46	1058000026	JA13906	1416U	TO75
339	CR40	679	CR72	1058000029	BMW13903	141887781	CR0621
340	CR39	682	CR66	1058000032	BMW13903	14216630	VO32
340	CR39K	683	CR66	1058000034	BMW13904	144-101	BMW80

CONVERTER CODES

Codes	Part #	Codes	Part #	Codes	Part #	Codes	Part #
148-001	AU3	19N	TO45	210-250-0902	MB18	24208325	GM92
149-002	BMW36	1B13	TO33L	210-250-0902	MB18A	24208326	GM94
149-003	BMW51	1B14V	TO75	211-250-0002	MB18A	24208475	GM71CW
149-003	BMW53	1C16X	TO44A	211-250-0302	MB18A	24208476	GM63CW
14A	FM55	1F	KM12BHD	211-250-0702	MB18A	24208646	GM18AL
14L	TO8903	1F1P-AA	FM71H	211-250-0802	MB18A	24208648	GM18AL
156-200	AU20	1F1P-AB	FM71H	211-250-0902	MB18	24208648	GM33CW
156-200	AU26	1F1P-AC	FM71H	21211407	GM88	24208649	GM33CW
156-200	PCH54A	1F2P-AA	FM71	21B	N33G03	24208860	GM50
156-201	AU11	1F2P-AB	FM71	21C	N33G01	24208861	GM51
156-201	PCH54	1F3P-AA	FM71C	21F	N33G02	24209248	GM86A
156-202	AU22	1F3P-AA	FM71H	2209C	DA54	24209249	GM84
156-203	AU23	1INK	TO55A	221-03-41C07	MB22	24209250	GM86A
156-203	BMW12901	1K120159	TO55	221-04-41D	MB21	24209428	GM86A
156-204	PCH54A	1L050264	TO55	221-250-0102	MB22	24210114	GM42CW
156-207	AU24	1L2AB	FM68HD	221-250-0302	MB22	24210141	GM83
156-207	AU25	1L2AC	FM68HD	221-250-0502	MB21	24210693	GM82
156-208	AU13	1L5AB	FM134HD	221-250-1202	MB22	24210705	GM24-6
156-208	BMW43	1L5AB	FM136HD	221-250-1702	MB22	24210707	BMW29LS
156-208	BMW62	1L5AC	FM134HD	221-250-2202	MB22	24210708	GM24-6H
156-208-0802	AU13	1L5AC	FM136HD	22B	CR33N01	24210713	GM24-6H
156-209	BMW63	1L5AD	FM134HD	22C	CR33N02	24210715	GM24-6H
157-100	AU13908	1L5AD	FM136HD	231103481196	BMW51	24210825	GM88H
157-100	BMW13900	1LZA	FM68HD	231103481196	BMW53	24210827	GM88
157-100	BMW13901	1Q	KM12BHD	23K	TO45	24210828	GM88
157-101	AU13909	1R6	GM19	24020031	GM24-6	24210829	GM88
157-102	BMW13900	1R6	GM20F	2419327	GM88	24210830	GM88H
157-102	BMW13903	1R7	GM19	24200140	GM25	24210831	GM88H
157-102	JA13906	1R7	GM20F	24200145	GM85	24210862	GM88
157-104	BMW13902	1SA0	GM81	24200319	GM24-6	24210868	GM87
157-109	JA13905	1SA1	GM81	24200322	BMW29	24210869	GM87
15A	FM55	1SB1	GM82	24200343	BMW29LS	24210919	GM92
15A	FM55	1W4P-AA	FM138-8	24200344	BMW29	24210921	GM33CW
15A	TO42B	1X	TO42B	24201308	GM71C	24210922	GM35CW
15A0601	TO42B	1X	TO44	24201885	GM86	24211068	GM87
15B	TO42	201-250-0002	MB42	24201885	GM86A	24211228	GM87
15B	TO42B	201-250-0102	MB41	24202174	GM18AL	24211228	GM87CW
168BW	CR13	201-250-0102	MB42	24202175	GM18AL	24211229	GM87
16A	TO42	201-250-0402	MB40	24202308	GM18AL	24211229	GM87CW
16A	TO42B	201-250-0402	MB42	24202522	GM58C-WHD	24211289	BMW29
16U	TO42	201-250-0502	MB42	24202989	GM81	24211322	GM42CW
16U	TO42B	201-250-2002	MB42	24202989	GM88	24211330	GM73CW
16U	TO53	202-250-0002	MB41	24202990	GM81	24211407	GM88
16U	TO53LS	202-250-0002	MB42	24202991	GM81	24211943	VO30
16U	TO75	202-250-0102	MB42	24202991	GM81	24211944	VO32
16U	TO75L	202-250-0402	MB42	24202992	GM82	24212423	GM90
16U	TO8903	202-250-0502	MB42	24202993	GM82	24212743	GM71C
16U	VO28	202-250-2002	MB42	24203554	BMW29	24212743	GM71CW
16U	VO31	206-205	JA95	24204000	GM9401	24212839	BMW38LS
16U11	TO75L	206-507	BMW95	24204547	GM63C	24212840	BMW38
16V	VO28	206-700	BMW45	24204668	GM18AL	24213279	GM53
16Y	TO53LS	206-700	JA95A	24204669	GM18AL	24213391	GM90
17803805	GM92	209-250-0602	MB23	24205484	GM86A	24213392	GM90
17803851	GM92	209-250-0702	MB23	24205486	GM86A	24213393	GM92
17803871	GM88H	209-250-0802	MB22	24206162	GM35CW	24213406	GM87CW
17804098	GM92	209-250-0802	MB23	24206447	GM53	24213496	GM87CW
17804099	GM56	209-302	BMW55	24206636	GM90	24213729	GM53
17804388	GM10404	20A020	TO18C	24206642	GM92	24213730	GM52
17V	TO53	20A020	TO59	24206914	GM42CW	24214840	BMW38
17V	TO53LS	20A050	VO25	24206915	GM73C	24215416	GM53
182-002	BMW13904	20A050	VO29	24207200	GM61C-WHD	24215557	GM55
18686	FM3901	20A150	TO59	24207239	GM50	24215581	BMW41
18A	FM55B	20A420	TO59	24207329	GM50	24216146	GM37
18S	TO53LS	210-250-0402	MB18	24207329	GM50	24216222	GM53
18S4	TO53LS	210-250-0502	MB18	24207330	GM51	24216224	GM50
19257717	HO82	210-250-0602	MB18A	24207330	GM53	24216226	GM50
19A	FM55B	210-250-0702	MB18	24207626	GM52	24216230	GM51
19B1	GM82	210-250-0702	MB18A	24207734	GM50	24216232	GM53

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Codes	Part #	Codes	Part #	Codes	Part #	Codes	Part #
24216236	GM52	24230005	GM53	29543017	AL1212	3F1P-AF	FM90
24216629	VO30	24230006	GM53	29546573	A7X	3F2P	FM90LS
24216630	VO32	2423004	GM53	29546574	A7XH	3F2P-AG	FM90LS
24216768	BMW40L	2423006	GM53	29546574	AL1211	3F2P-BF	FM90LS
24216770	GM56	24233679	GM86A	29546576	A7XL	3G	KM22
24216771	GM46	24233966	BMW40L	29549519	A7XL	3K	HO65
242169407	GM58C-WHD	24235591	GM42CW	29549519	AL1212	3L2P-CA	FM138-8
24217235	GM88H	24236469	GM10405	29549521	A7XH	3M	KM16BHD
24217236	GM88	24238202	GM10404	29549521	AL1211	3R	TO59
24217328	GM88	24238404	GM56	29549522	A7X	3T	KM16BHD
24217364	GM88H	24238504	GM56	2A	KM24	3X	KM16CHD
24217466	GM71CW	24238578	GM55	2B	CR47	406220417	TO42B
24217467	GM71CW	24239065	GM10401	2B	CR97	407622	TO75
24217470	GM42CW	24240017	GM10403	2B	FM69C	40A010	TO67
24217609	GM81	24240019	GM10401	2B	FM69H	40A020	VO28
24217609	GM88	24240021	GM10402	2C	KM24	40A030	TO69
	GM58C-WHD	24240603	GM55	2C	KM27	40A100	TO39
24219047	GM88H	24240863	GM88	2D	KM8202	40A320	VO28
24219303	GM88H	24241866	GM42CW	2E00192	TO79L	40A570	TO37
24219326	GM88H	24241978	GM93	2G	KM30	40A571	TO37
24219327	GM88	24242396	GM10404	2G	VO20	40A600	TO69B
24219328	GM88H	24242397	GM10404	2KJ	DA48	40A610	TO39
24219329	GM88	24243455	GM1441	2KJ08	DA48	40A710	TO37
24219330	GM88H	243281	GM38A	2L2BA	FM68HD	40A930	TO8902
24219407	GM58C-WHD	250AB	CR42	2L5AA	FM134HD	40A970	TO75
24219491	BMW38	250AB	CR73	2L5BD	FM134HD	40A980	TO42B
24219828	GM42CW	25AR	HO63	2N	HO60	40B	DA60
24219830	GM42CW	25AR	HO80	2N	TO40B	40B060	TO8903
24220861	GM88H	275LU	A9HD	2N	TO47L	415BD	FM134HD
24220869	GM87CW	27892422	GM71CW	2Z09C	DA54	416802200606	BMW61
24220895	GM38	27M	HO62	302A	TO44A	416802504602	AU22
24221093	GM96	27N	HO62	30417	TO73	416802504606	AU22
24222019	GM71CW	286829748	KM12BHD	30929E	FM90	416802506302	AU23
24222784	GM71C	286829748	KM12HD	30A	FM55B	416802512706	AU20
24222784	GM71CW	29514486	A6HD	30A	TO22	416802514502	BMW63
24222789	GM71C	29514487	A3HD	30A010	TO33	416802514602	BMW62
24222789	GM71CW	29530317	A7XL	30A030	TO33	416802521306	BMW80
24222789	GM71C	29530317	AL1212	30A070	TO22	416802533102	BMW12901
24222789	GM71CW	29530318	A7X	30A070	TO33	416802533106	BMW12901
24222905	GM37A	29530318	AL1210	30A108	TO33	416802533506	AU24
24222998	GM96	29530319	A7XL	30A160	TO81	416802637602	BMW13900
24223281	GM38A	29530319	AL1212	30A260	TO62	416802637606	BMW13900
24224075	GM55	29534832	A7XH	30A340	TO62	416802638006	JA13905
24224255	GM71C	29534832	AL1211	30A340	TO62A	416802638102	JA13906
24224255	GM71CW	29538197	A7XH	30A360	TO22	416802638902	JA13906
24224256	GM42CW	29538197	AL1211	31287	TO59	416802639202	BMW13901
24224258	GM42CW	29538347	A7XL	323-023	ZF1890	416802639406	AU13908
24225976	BMW40L	29538347	AL1212	323571A	VW1501	416802639506	AU13909
24226853	GM10402	29538348	A7X	323571D	VW1502	416802639602	BMW13902
24227088	GM92	29538348	AL1210	323571E	VW1503	416802639606	BMW13902
24227093	GM58C-WHD	29538528	A7XL	323571G	VW1503	416802660402	BMW13903
24227094	GM71C	29538528	AL1212	32B	FM70	416802822106	BMW32
24227094	GM71CW	29538529	A7X	34047	TO18	416802829902	BMW13904
24227179	GM92	29538529	AL1210	34-047	TO18	421AB	MB18B
24227601	GM96	29538531	A7XH	352AA	CR2A	42A010	VO31
24227628	GM95	29538531	AL1211	352AB	CR2A	42A030	TO68
24227930	GM88H	29540484	A7XL	36A	FM55B	42A040	TO8901
24227936	GM88H	29540484	AL1212	37A	FM55B	42A050	VO31
24227948	GM92	29541293	A7X	39000	FM3901	437Y51	TO77
24228334	GM92	29541293	AL1210	3-95B	KM12BHD	43A012	TO68
24228392	GM55	29541833	A9HD	3-95B	KM12HD	43A020	TO68
24228538	GM88	29543003	A7X	395T6	CR7801	43A020	VO31
24228708	GM55	29543003	AL1210	39A	FM55B	43A021	TO68
24228709	GM55	29543015	A7XH	3A	VO19	43A030	TO68
24229277	GM54	29543015	AL1211	3AB	CR0621	43A080	TO78
24230001	GM51	29543017	A7X	3B	KM23	43A090	TO78
24230004	GM53	29543017	A7XL	3F1P	FM90	43A120	TO79
		29543017	AL1210	3F1P-AE	FM90	43A160	TO79L

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Codes	Part #	Codes	Part #	Codes	Part #	Codes	Part #
43A220	TO68	4H	KM25	5F2P-AG	FM90LS	75A	FM69C
43A240	TO68	4L2AC	FM68HD	5F2P-BC	FM90LS	76322	GM80
43A260	TO77	4L2P-BA	FM138-8	5G13-AA	FM3902	76A	FM69C
43A261	TO77	4L2P-CA	FM138-8	5G1Z-AA	FM3902	77A	FM69C
43A290	TO68	4L5AD	FM134HD	5GA	HO68	77A	FM69L
4473689AA	CR0621	4L5BD	FM134HD	5L2P-AF	FM9502	7A	FM55
447AA	CR0621	4M	HO66	5L8P	FM89L	7C	KM8201
447AA	CR0923	4M	HO77	5L8P-DA	FM89L	7E14A	CR9901
447AA	CR7801	4P	KM25	5L8P-DP	FM89L	7G	GM1241
447AA	CR85	4R3P	FM4600	5M	HO77	7G6	GM1241
447AA	CR86	500AA	MB18B	5OA020	TO66	7G7	GM1241
447AB	CR0621	50A020	TO66	5OA040	TO44A	7G8	GM1241
447AB	CR0920	50A040	TO44A	5W	VO20	7H	GM1242
447AB	CR0921	50A070	TO44A	602019	HO80	7H7	GM1242
447AB	CR0923	50A080	TO44A	602019E2-P8F	HO80	7H72201G	GM1242
447AB	CR1320	50A110	TO14701	603AA	CR7801	7L2AA	FM67HD
447AB	CR86	50A150	VW59	609290996	FM4800	7L6	FM1241
448AA	CR7801	51A	FM69	60A080	TO62	7L7	FM1241
44A	FM55B	520AA	CR1320	60A100	GM1991	7L70321F	FM1241
45820006	GM53	520AB	CR1320	61A	FM69	7L70651F	FM1241
45H	HO61	520AB	MB18B	61A100	GM1991	7L72651F	FM1241
461AB	CR86	52117644	CR70L	62A	FM70	7LL6	VW9800
461AD	CR85	52118868	CR70L	62A	FM70HD	7M	VO20
46A010	VW1502	524AA	CR0920	63A	FM69H	7P	TO60
46A040	VW1503	524AB	CR0920	64A	FM69C	8004096AB	MB18B
46A060	VW1503	527AA	CR0921	65A	FM69	80A	FM69C
46A100	BMW1501	527AB	CR0921	66775	DA18	81A	FM70
46A110	VW1501	52A	FM70	671AD	CR7201	81A	FM70HD
4736461	CR85	52A	FM70HD	671AE	CR7202	822809L	CR2
4736461	CR86	534AA	CR0920	68109671AB	CR7202	82A	FM69C
4736461AB	CR86	534AB	CR0920	69A	FM69	830AB	CR86
4736461AD	CR85	534AC	CR0920	6A28071	GM1991	834AA	CR0923
4736478AA	MB18B	538AA	CR1323	6A29	DA30	845AA	CR0621
4736489AA	CR7801	53A010	TO71	6A83	DA55	845AA	CR86
4736582AD	CR2	53A011	TO71	6AA	HO72	84A	FM69L
4752603AA	CR7801	53A020	TO55A	6B46	SU16A	853A	CR86
4753520AA	CR1320	53A020	TO70	6C	TO37	8676526	GM82
4753520AB	CR1320	53A040	TO14701	6D	KM28	8676528	GM81
4753524AA	CR0920	54BM	KM12BHD	6DORP9	KM28	8678197	BMW29
4753524AB	CR0920	54BM	KM12HD	6E	TO12	8678957	GM71
4753527AA	CR0921	556AA	CR1320	6E080777	TO55L	8680189	GM24
4753534AA	CR0920	556AB	CR1320	6F	TO60	8681486	GM85
4753534AB	CR0920	556AC	CR1320	6F35-9L	FM1441	8681964	GM42
4753534AC	CR0920	557AA	CR0921	6G	KM17-6	8682088	GM83
4753556AA	CR1320	557AB	CR0921	6K	KM14	8682604	GM82
4753556AB	CR1320	557AC	CR0921	6K	KM14B	8682606	GM81
4753556AC	CR1320	560AA	MB18B	6L	KM31M	8682848	GM84
476AD	CR0923	560AA3224Z	MB18B	6L2P-AG	FM9502	8683440	GM86
476AD	CR85	56A	FM55B	6M	KM31H	8683440	GM86A
478AA	CR0920	580AA	MB18B	6MM	FM1603	8683441	GM84
478AA	MB18B	580AA3224Z	MB18B	6MM	FM160L	8683670	GM81
47A010	FM3901	580AA3464Z	MB18B	6MM	FM160M	8683671	GM81
489AA	CR7801	580AB	MB18B	6T	DA8B	8683675	GM81
489AA	MB18B	587AB	CR2A	6X	KM17	8689960	GM81
489AA34953	CR7801	58A	FM55B	70A	FM70	8689960	GM88
4A3	HO69	58A	FM69C	70A	FM70HD	8689990	GM86
4A3	HO80	59A	FM69H	70A020	VO3901	8689990	GM86A
4B	KM12BHD	5A010	TO71	71A	FM69L	8689991	GM84
4B	KM12HD	5A070	TO44A	71A040	FM3902	8690936	GM71C
4B0	HO66	5A1	TO14701	722-250-0602	MB43	8691904	GM35
4B1	HO55	5A1	TO44A	722-250-1102	MB19B	8691911	GM18AL
4B6	HO66	5A1	TO44B	72376	KM12BHD	872AA	CR85
4BC	HO66	5A100	TO44A	72376	KM12HD	872AB	CR0923
4BO	HO66	5E11U	TO61	72A	FM69	87BA	FM136HD
4C	KM25	5F	TO60	72A	FM69C	87HFD	FM68HD
4F	HO61	5F2	FM90LS	73A	FM69C	893AA	CR0621
4F22	KM9901	5F2P	FM90LS	74A	FM70	893AB	CR0621
4G20	KM9901	5F2P-AD	FM90LS	74A	FM70HD	89A	FM69C

CONVERTER CODES

Codes	Part #	Codes	Part #	Codes	Part #	Codes	Part #
8b	HO77	A	HO64	A85	BMW13903	B16	AU26
8b	HO78	A	HO69	A9	AU13	B17	DA40
8B	TO26-20	A	SU6301	A9	BMW21	B18	BMW42
8B	TO47	A	VW20	AA	DA28	B1A1	CR2
8C	HO79	A080	TO44B	AA	FM136HD	B24	JA13906
8F	HO80	A080A	TO44B	AA	FM138-8	B25	AU13
8F04U	TO44A	A1	DA16HD	AA0	HO72	B26	BMW53
8FC2X	HO80	A1	DA20	AB	CR86	B27	AU21
8G	TO17	A1	KM13	AB	FM138-8	B28	AU11
8P	HO80	A1	KM9	AB	FM18	b3	KM12BHD
8U	TO40	A10	DA16HD	AB	FM64Q	B31	AU11
8U	TO40B	A11	BMW36	AB	HO64	B31	GM83
8U	TO47	A12	DA36	AB	HO69	B33	AU24
8U	VO29	A12	DA48	AC	FM102	B35	AU20
8V21A93	HO80	A12	KM12BHD	AC	FM64R	B35	AU21
903-250-0002	MB18	A12	KM12HD	AD	CR85	B36A	HO3000
9212140	GM83	A121	TO59	AD	FM138	B36A	HO3001
930113765	TO59	A13	DA16HD	AD	FM138-8	B38	AU11
93012117	GM83	A13	DA36	AD	FM138SC	B3X	HO72
94A	DA18	A14	BMW43	AD	FM64R	B3X06A3	HO72
956AB	CR42	A18	DA16HD	AF	FM136HD	B4	DA40
956AB	CR73	A19	DA16HD	AF	FM64R	B4	KM12BHD
956AB	CR88	A2	DA16HD	AF	FM68HD	B4	KM12HD
956AD	CR73	A2	DA59	AG	DA48	B40	DA60
96012117	GM83	A2	KM8HD	AG	JA3	B46A	HO69
96012140	GM83	A20	DA25	AG	VO10	B4H	HO72
96012187	GM83	A20	DA36	AG	VO13	B4H23A2	HO72
9604117	BMW29	A20	DA36A	AJ	HO55	B4RA	HO69
96041177	BMW29	A22	DA16HD	AK	HO55	B5	HO79
96041998	GM87	A23	BMW45	AL	HO64	b5	KM12BHD
9612140	GM83	A23	DA16HD	AOYA	HO72	B5B	HO72
9691906	GM18AL	A24	DA16HD	APX4	HO66	B5B151050	TO71
9691912	GM18AL	A24A	HO69	AS	HO55	B5B250088	TO71
96A	FM69H	A25	DA16HD	AS	HO59	B5BM	HO72
974A	CR42	A27	DA16HD	AU	TO40B	B5E060605	TO71
975A	CR42	A2YA	HO69	AU1	VW14	B5K121043	TO71
97B	DA46	A3	BMW13	AYA	HO72	b6	HO69
97HCA	FM136HD	A3	BMW34	AZ	DA59	B623	DA24
97HFB	FM68HD	A3	DA16HD	B	CR0621	B6K	HO78
97HFC	FM68HD	A3	DA20	B	DA26	B6K29A7	HO78
97HFD	FM68HD	A3	DA59	B	DA40	B6K300832	TO71
97HJC	FM76HD	A32	PCH54	B	DA48	B6VA	HO77
98A	FM69C	A33	AU11	B	FM127	B7	DA40
99A	FM69L	A33	DA36	B	FM138-8	B73	AU25
9A	J30	A34	DA16HD	B	FM4600	B7GA	HO80
9A	VO20	A39	DA16HD	B	FM64L	B7MA	HO69
9A8	GM1241	A3-A5	DA16HD	B	GM16AH	B7MAJB4	HO69
9B	TO47	A4	DA16HD	B	GM18AH	B7TA	HO80
9D-232-521	PCH59	A40	DA16HD	B	GM31	B7UA	HO80
9D-323-521	PCH59	A43	DA16HD	B	GM31CW	B7VA	HO80
9F	VO20	A44	DA16HD	B	GM61HD	B7WA	HO80
9F8	FM1242	A47	DA36	B	GM8	B7XA	HO79
9G	VO19	A48	DA16HD	B	HO59	B7YA	HO80
9J	VO20	A49	DA31	B	HO61	B8	BMW45
9L	TO44	A4RA	HO69	B	HO64	B83	FM3301
9L3P-AF	FM9501	A4RNA	HO3003	B	HO69	B9	DA40
9L8P-AA	FM1441	A5	DA16HD	B	HO71	B901268	KM12BHD
9R	TO18C	A52	DA31	b	HO72	B901268	KM12HD
9R	TO47L	A53	DA31	b	HO78	BA	FM136HD
A	DA28	A59	DA31	B	TO15701	BA	HO68
A	DA31	A5GF1	KM41	B05	HO79	BA	HO69
A	DA48	A5P72	HO69	B1	CR2	BA	HO78
A	FM138-8	A6273	BMW29	B1	DA40	BAA	FM68HD
A	FM4600	A6VA	HO72	B11	JA95	BAA	HO81
A	FM64	A7	DA16HD	B13	BMW32	BAB	FM68HD
A	FM64L	A73	AU24	B14	DA40	BAXA	HO66
A	FM80	A8	DA16HD	B15	DA40	BAXA	HO77
A	HO56	A8	HO64	B16	AU13	BAXA	HO78

CONVERTER CODES

Codes	Part #	Codes	Part #	Codes	Part #	Codes	Part #
BAXA	HO79	C	FM75	CFA	FM136HD	DBNF	GM31CW
BAYA	HO72	C	GM18AH	CFBF	GM15AH	DC	DA11HD
BAYA	HO79	C	GM35	CFD	GM15	DC	FM112
BB	GM16AH	C	HO61	CG	GM15AL	DC	FM124
BB	HO69	C	HO67	CG	GM15ALF	DC	GM35
BB4C	GM16AH	C	SU11	CG	GM18AL	DC	GM35CW
BB4D	GM16AH	C1A	HO69	CG	GM23	DC8F	GM18AH
BB8D	GM16AH	C2	KM7HD	CG	GM33	DCAF	GM18AH
BB8F	GM16AH	C2	VO13	CG	GM33CW	DCD	VW9800
BBJ	VW9801	C2	VO15	CG3C	GM15AL	DCLF	GM35
BC	FM138	C2X17B17	HO80	CG3C	GM15ALF	DCLF	GM35CW
BC	FM138SC	C3	BMW22	CG5C	GM15	DCNF	GM31CW
BCA	HO77	C3	VO10	CG5E	GM15AL	DCNF	GM35CW
BCLA	HO81	C34	KM7HD	CG6C	GM15	DCS	AU20
BD	FM138	C4	KM7HD	CG6F	GM15	DD	FM124
BD	FM138SC	C51	BMW62	CG8F	GM15	DE	FM66HD
BDA	FM136HD	C51	BMW63	CG9D	GM19	DE	GM15AH
BDGA	HO80	C6	SA4	CGAD	GM15	DE	GM18AH
BDKA	HO82	C7	BMW17	CGAE	GM15	DE	GM31
BE	FM76HD	C7X	HO79	CGBF	GM15	DE	GM31CW
BE	GM16	C8	HO64	CGD	GM15AL	DE5F	GM18A
BE	GM160	C8C	HO78	CGE6	GM15	DE6C	GM18AH
BE4C	GM16	C8C12144	HO78	CGF	GM15AL	DE6D	GM18AH
BE4D	GM16	C8C121A4	HO78	CGP7	GM15	DE6F	GM31
BE8D	GM16	C8K19	TO67	CJB	AU20	DE6F	GM33
BE8F	GM16	CA	FM136HD	CJY	AU22	DE8F	GM18A
BED	GM16	CA	FM66HD	CK	GM15AL	DEAF	GM18A
BEE	GM16	CA	HO56	CK	GM15ALF	DEBF	GM18A
BF	GM16	CA	HO58	CK	GM18AL	DEGF	GM33
BF	GM160	CA	HO78	CK	GM23	DELF	GM35
BF4C	GM16	CAO	HO69	CK	GM33	DF	FM124
BFA	FM136HD	CB	GM15AH	CK	GM33CW	DF	GM15
BFD	GM16	CB	GM18AH	CK8F	GM15AL	DF	GM15AF
BG	GM16AF	CB	GM31	CM	FM122	DF	GM18A
BG	GM16AL	CB	GM31CW	CP	FM120	DF	GM35
BG4C	GM16AF	CB4C	GM15AH	CP3	GM80	DF	GM35CW
BG4C	GM16AL	CB5C	GM15AH	D	DA11HD	DF5F	GM18A
BG8D	GM16AF	CBD	GM15AH	D	DA13HD	DF5F	GM35
BG8D	GM16AL	CBE	GM15AH	D	GM42	DF6F	GM18A
BG9D	GM20F	CBF	GM15AH	D19	BMW37	DF6F	GM35
BGD	GM16AL	CC	FM35	D2	KM7HD	DFAF	GM18A
BGE	GM16AL	CC3P-AB	FM1261	D21	BMW13900	DFLF	GM35
BGF	GM16AL	CC3P-BB	FM1262	D6	SA4	DG	GM15AL
BGFA	HO80	CC3Z-A	FM1261	D6A	GM18A	DG	GM15ALF
BGHA	HO80	CC3Z-B	FM1262	D7344	PCH59	DG	GM18AL
BGPD	GM20F	CE	FM66HD	D823910297	GM1441	DG	GM33
BGRA	HO80	CE	GM15	D9	GM15	DG	GM33CW
BH9D	GM20F	CE	GM15AF	D984316	CR72	DG5C	GM18A
BJE	HO69	CE	GM15S	DA	DA11HD	DG5C	GM33
BJFA	HO3001	CE	GM18A	DA	FM136HD	DG5D	GM18A
BM	FM112	CE	GM35	DB	DA11HD	DG5F	GM18AL
BMXA	HO69	CE	GM35CW	DB	DA16HD	DG5F	GM33
BN	FM112	CE3C	GM15	DB	FM112	DGAD	GM18A
BO5	HO79	CE3C	GM15S	DB	FM124	DGAF	GM18AL
BOYA	HO72	CE4C	GM15	DB	GM15AH	DGAF	GM33
BP	DA40	CE4C	GM15AF	DB	GM18AH	DGAG	GM18AL
BP	FM18A	CED	GM15	DB	GM31	DGCF	GM18A
BR	FM112	CEE	GM15	DB	GM31CW	DGCF	GM33
BT	FM111	CEF	GM15AF	DB6D	GM18A	DGCG	GM18A
BU	FM113	CEGF	GM23	DB8D	GM18A	DGCG	GM33
BU	TO40B	CF	GM15	DB8F	GM18AH	DGGF	GM33CW
BVGA	HO80	CF	GM15AF	DBAF	GM18AH	DGGG	GM33
BVGA	HO82	CF	GM15S	DBAF	GM31	DGH	GM31
BVLA	HO3001	CF4C	GM15	DBCD	GM18A	DGHF	GM33
BWAG	VW1502	CF4C	GM15AF	DBCF	GM18A	DGHG	GM33
BWEA	HO3001	CF9C	GM15	DBCF	GM31	DGLF	GM33CW
BYBA	HO80	CF9C	GM15AH	DBHC	GM31	DGPF	GM33CW
BZKA	HO81	CF9C	GM15S	DBLF	GM31	DH	FM124

CONVERTER CODES

Codes	Part #	Codes	Part #	Codes	Part #	Codes	Part #
DH	GM15AL	E2FN	DA58	F4DZ	FM61	FC	GM73
DH	GM15ALF	E2-P8F	HO80	F4DZ	FM61M	FC	GM73C
DH	GM18AL	E3	DA41	F4DZ-B	FM61M	FC	GM73CW
DH	GM33	E4	KM7HD	F4DZ-C	FM61	FC1	GM73
DH	GM33CW	E6	KM7HD	F4OY	FM61R	FC1B	GM73
DHDF	GM33CW	E7E	HO79	F4OY-A	FM61R	FCA	FM136HD
DHHF	GM33	EA	DA28	F4RP	FM75	FCFB	GM73CW
DHHG	GM33	EA	DA48	F4RZ	FM75	FD	GM42
DHHG	GM33CW	EA	FM136HD	F4RZ-A	FM75	FD	GM42C
DHPF	GM33	EA	HO77	F5OP-AA	FM72C	FD	GM42CW
DHPF	GM33CW	EB	DA13HD	F5RP	FM80	FD2	GM42
DHPG	GM33CW	EC	DA13HD	F6	DA61	FD2B	GM42
DK5E	GM18AL	ECF	AU13908	F65	JA95	FD4B	GM42
DK5F	GM18AL	ECRA	DA67	F68P-AA	FM71	FD6	GM42
DK8F	GM18AL	EDG	AU13908	F6DP-AA	FM59	FD6B	GM42
DKAF	GM33	EE	FM64Q	F6DP-AA	FM59A	FD9	GM42
DKGF	GM33	EE7VMO	CR65	F6DZ	FM71	FD9B	GM42
DKHF	GM33	EF	DA13HD	F6DZ-B	FM71	FD9B	GM42C
DKLF	GM33	EGXA	FM9501	F88P-AA	FM71H	FDA	FM136HD
DKNF	GM33CW	EH2	HO72	F88P-AB	FM71H	FDAB	GM42
DKPF	GM33CW	EH23A	HO72	F88P-BA	FM71	FDEB	GM42
DL	GM15	EKC	AU22	F8DP-BB	FM59A	FDHB	GM42C
DL	GM15AF	EKD	AU22	F8DZ	FM59A	FDHB	GM42CW
DL	GM18A	EKX	AU23	F8DZ-BA	FM59A	FDKB	GM42C
DL	GM35	EL	DA8A	F8OP-AB	FM72C	FDLB	GM42C
DL	GM35CW	ELA	DA8A	FA	DA28	FDQB	GM42CW
DL5F	GM18A	EM	DA8A	FA	FM136HD	FE	GM42
DL8F	GM18A	EMA	DA8A	FA	GM73	FE	GM42C
DLLF	GM35	EO	DA8A	FA	GM73C	FE	GM42CW
DLNF	GM35CW	EO7	BMW25	FA	GM73CW	FE	KM17
DLPF	GM35CW	EOA	DA8A	FA1	GM73	FE2	GM42
DLPH	GM33CW	EZZ	AU22	FA1B	GM73	FE4	GM42
DPS	AU23	F	DA11HD	FA2	GM73	FE4B	GM42
DPT	AU23	F	DA13HD	FA2B	GM73	FE6	GM42
DRD	AU23	F	DA48A	FA3	GM73	FE9	GM42
DRN	AU23	F	DA48B	FA3B	GM73	FEA	FM68HD
DS	FM120	F	FM64	FA4	GM73	FEA	HO77
DTE	AU13908	F	GM16	FA4B	GM73	FF	DA13HD
DX	FM124	F	GM160	FAAB	GM73	FF	DA28
E	DA8A	F	GM180A	FACB	GM73	FG	GM71
E	FM64	F	GM18A	FAFB	GM73CW	FG	GM71C
E	GM15S	F	GM35CW	FAHB	GM73C	FG	GM71CW
E	GM16	F	HO58	FANDK	DA48	FG2	GM71
E	GM160	F1	DA85	FAS	AU22	FG5	GM71
E	GM180A	F10	DA59	FB	FM124	FG9	GM71
E	GM18A	F10	DA61	FB	GM73	FG9B	GM71
E	GM35	F11	AU3	FB	GM73C	FGAB	GM71
E	GM35CW	F11	DA61	FB	GM73CW	FGHB	GM71C
E	HO56	F2	KM12BHD	FB	JA4	FGHB	GM71CW
E	HO60	F21	BMW32	FB	KM41	FGKB	GM71C
E	TO66	F31	AU23	FB1	GM73	FGKB	GM71CW
E0	DA8A	F35	AU13	FB1B	GM73	FH	GM63
E07	BMW25	F38	BMW13900	FB2	GM73	FH	GM63C
E1	DA11HD	F38	BMW13903	FB2B	GM73	FH	GM63CW
E1	DA41	F39	BMW13900	FB3	GM73	FH5	GM63
E11	BMW25	F3DP-BA	FM59	FB3B	GM73	FH5	GM63C
E11B	HO69	F3RP	FM80	FB4	GM73	FJ	GM42
E168026376	BMW13900	F3RT	FM71H	FB4B	GM73	FJ	GM42C
E168026381	JA13906	F3RZ	FM80	FB-6	HO66	FJ	GM42CW
E168026389	JA13906	F4	HO60	FBAA	HO72	FJ2	GM42
E168026392	BMW13901	F4	HO61	FBAB	GM73	FJ2B	GM42
E168026394	AU13908	F4A-1	FM75	FBCB	GM73	FJ4B	GM42
E168026395	AU13909	F4D28	GM1991	FBF	AU13908	FJ9	GM42
E168026396	BMW13902	F4DP-AA	FM71	FBFB	GM73CW	FJ9B	GM42
E168026604	BMW13903	F4DP-BA	FM71	FBG	AU13909	FJAB	GM42
E18	BMW35	F4DP-DA	FM71	FBKB	GM73CW	FJBB	GM42
E1SP-AA	FM49	F4DP-DB	FM71	FBO	HO66	FJHB	GM42C
E2	HO80	F4DP-EA	FM59	FBW-V13	VO23	FJHB	GM42CW

CONVERTER CODES

Codes	Part #	Codes	Part #	Codes	Part #	Codes	Part #
FK	DA48	FU9A	FM65A	G	VW14	H5	DA39
FK	DA48B	FU9A	FM84	G29	AU13908	H56	FM126DS
FK	GM73	FU9B	DA53	G31	AU21	H57	GM24-6
FK	GM73C	FU9B	FM65	G4	HO63	H6	DA39
FK	GM73CW	FU9B	FM85	G401	FM85	H7	DA75
FK1	GM73	FU9F	FM84	G549	CR91	HA	GM61CHD
FK1B	GM73	FUL	AU13908	G549	CR94	HA	GM61C-WHD
FK2	GM73	FUN	AU13908	G7	J18	HA	GM61HD
FK2B	GM73	FUPF	FM84	G7	KM13	HA1	GM61HD
FK3	GM73	FX	FM58	G7	KM9	HAM	HO56
FK3B	GM73	FX	FM58L	G72	BMW55	HB	GM61CHD
FKBB	GM73	FXPB	GM73C	G85	BMW95A	HB	GM61C-WHD
FKEB	GM73	FY	FM58	GA	FM76HD	HB	GM61HD
FKEB	GM73C	FY	FM58L	GA	HO77	HB1	GM61HD
FL	GM71	FY	GM63	GAK	AU24	HB2	GM61HD
FL	GM71C	FY	GM63C	GB	DA42	HBCD	GM61CHD
FL	GM71CW	FY	GM63CW	GB	DA8	HBFD	GM58C-WHD
FL	VO30	FY4A	GM63C	GB	FM58	HBFD	GM61C-WHD
FL4	GM71	FY4B	GM63	GB	FM58L	HBHD	GM61CHD
FL4B	GM71	FY4B	GM63C	GD	DA42	HC	DA46
FL6	GM71	FY5	GM63	GE	DA42	HCA	FM136HD
FL6B	GM71	FY5	GM63C	GEG	VW9802	HD	GM58CHD
FL8C	GM71	FY5B	GM63	GF	DA42	HD	GM58C-WHD
FL9	GM71	FY5B	GM63C	GF	DA8	HD	GM58HD
FL9B	GM71	FY6B	GM63	GF01	FM85	HE	DA46
FLAB	GM71C	FY6B	GM63C	GFU13F	FM65	HE	GM58CHD
FLDB	GM71	FY7	GM63	GG	FM64Q	HE	GM58C-WHD
FLDB	GM71C	FY7	GM63C	GH	DA8	HE	GM58HD
FLGB	GM71CW	FY8C	GM63	GHA	DA8	HE9D	GM58HD
FLHB	GM71C	FY9	GM63	GI	DA8	HEHD	GM58CHD
FLHB	GM71CW	FY9B	GM63	GK	DA8	HFC	FM68HD
FLHC	GM71C	FY9B	GM63C	GKA	DA8	HH	DA46
FLKE	GM94	FYAB	GM63	GL	DA8	HI	DA46
FLKF	GM94	FYAB	GM63C	GLA	DA8	HI	HO81
FLMB	GM71C	FYHB	GM63C	GLLCXT	HO3000	HI3	HO56
FLQB	GM71C	FYHB	GM63CW	GMA	HO3001	HI6	HO56
FLQB	GM71CW	FZ	GM73	GO4	HO66	HJ	GM58CHD
FLTV	VO30	FZ	GM73C	GP3	GM80	HJ	GM58C-WHD
FLVV	VO30	FZ	GM73CW	GPLA	HO81	HJ	GM58HD
FM	GM71	FZ1	GM73	GPPA	HO81	HJ2	GM58HD
FM	GM71C	FZ1B	GM73	GR	DA8	HJAD	GM58HD
FM	GM71CW	FZ2	GM73	GT	DA8B	HJO	GM58HD
FM	VO32	FZ2B	GM73	GX	DA8	HK	GM61CHD
FM4	GM71	FZ3	GM73	GXA	DA8	HK	GM61C-WHD
FM4	HO61	FZ3B	GM73	GY	DA8	HK	GM61HD
FM4B	GM71	FZ9	GM73	GYA	DA8	HK	KM12BHD
FM5	GM71	FZBB	GM73	H	DA28	HK	KM12HD
FM7	GM71	FZBB	GM73C	H	DA48	HK1	GM61HD
FM8	GM71	FZCB	GM73C	H	FM64	HK2	HO56
FM8B	GM71	FZEB	GM73C	H	FM89	HK3	HO56
FM8C	GM71	FZEB	GM73CW	H	FM89L	HL	GM58CHD
FM9	GM71	FZFB	GM73C	H	GM33CW	HL9D	GM58HD
FM9B	GM71	FZFB	GM73CW	H	GM63	HLHD	GM58CHD
FMTV	VO32	FZPB	GM73C	H1	DA39	HLHD	GM59CHD
FMVV	VO32	FZPB	GM73CW	H1	DA46	HLQD	GM58C-WHD
FNE2	DA58	FZRB	GM73	H13	HO56	HQ	KM12BHD
FNE4	DA58	FZRB	GM73C	H15	HO56	HX15BA	HO77
FNJ4	DA60	FZRB	GM73CW	H16	HO56		
FNJ4	DA65	G	AU2	H16C	HO56		
FNK2	DA64	G	DA13HD	H2	DA39		
FNK2	DA65	G	DA14	H2	HO3002		
FNS4	FM4800	G	DA48	H2	KM11HD		
FS	FM58	G	DA8	H3	JA3		
FS	FM58L	G	FM64L	H4	DA48		
FSHB	GM42C	G	GM16AF	H4	KM25		
FU13	FM65	G	GM18AL	H4	KM7HD		
FU31F	FM65	G	GM33CW	H44	PCH54A		
FU80A	FM65A	G	VO10	H5	BMW19		

CONVERTER CODES

Codes	Part #	Codes	Part #	Codes	Part #	Codes	Part #
HY	GM58HD	JB4	HO69	KV	KM12BHD	M6	SA7
HY	GM59CHD	JBRA	KM23	KV	KM12HD	M6HA	HO77
HY	GM59C-WHD	JC7	VW9800	L	DA14	M6HA	HO79
HY9	GM61HD	JC7	VW9801	L	FM64L	M7	GM16AF
HY9D	GM58HD	JCXB	GM55	L	FM80	M7	GM16AL
HYA6LF1ZA	KM34	JF1	DA20	L	GM180A	M7WA	HO80
HYHD	GM59CHD	JFTM	GM51	L	GM18A	M7ZA	HO79
HYHD	GM59C-WHD	JJ	FM64Q	L	GM35	MAXA	HO77
HYQD	GM58C-WHD	JMBX	GM10404	L	GM35CW	MAXA	HO78
HYQD	GM59C-WHD	JMBX	GM10405	L	HO66	MCTA	HO81
HZ	GM61CHD	JMDZ	GM10406	L	HO74	MCVA	HO81
HZ	GM61C-WHD	JO8	TO22	L	TO15701	MDKA	HO82
HZ	GM61HD	JO8	VO22	L	TO44	MDLA	HO69
HZ2	GM61HD	JP	VW9800	L	TO55	MDMA	HO69
HZAD	GM61HD	JP23	VW9802	L	TO55A	MDPA	HO82
HZHD	GM61CHD	JP-57344-01	VW59	L	VO24	MDRA	HO82
HZO	GM58HD	JR10	DA24	L1	BMW11	MDWA	HO66
I	HO72	JR11	DA27	L1	DA16A	MDWA	HO77
I02	TO8902	JR2VPX	CR70X	L1	KM14	MF	J30
I1	BMW11	JR8	DA21	L15	HO64	MGHA	HO80
I7	DA75	JSFM	GM50	L16	HO64	MJBA	HO3002
ICCB	GM92	JSMF	GM50	L19	BMW37	MJBA	HO82
IF	KM12BHD	JTFM	GM51	L28N121	DA26	MKZA	HO81
IF	KM12HD	JXFM	GM52	L31	BMW13900	ML4A	HO64
IL5AC	FM134HD	JZFM	GM53	L35	BMW13902	MM	KM16HD
IQ	KM12BHD	K	DA48B	L4	HO64	MOYA	HO72
IQ	KM12HD	K	GM33CW	L5	HO62	MP1A	HO77
IR6	GM19	K	HO63	L51	BMW13904	MP7A	HO69
IS	TO59	K	HO80	L62	BMW95	MPCA	HO3003
J	DA60	K	VW13	L65	BMW95	MPJA	HO77
J	GM42	K	VW14	L7	GM16AF	MPOA	HO72
J	HO61	K1	HO63	L7	GM16AL	MPRA	HO66
J	HO64	K1	HO65	L904A	FM9502	MPSA	HO64
J	HO66	K10	VO27	LB	KM17	MPWA	HO66
J	HO79	K2	BMW24	LB	KM28M	MPWA	HO71
J	TO22	K2	DA53	LB	TO15701	MPXA	HO66
J	VW9800	K2	DA64	LBCA	VW18	MPYA	HO68
J08	TO22	K2	HO65	LC	KM28M	MPZA	HO79
J1	DA56	K28	AU11	LCCA	VW18	MR9A	HO74
J10	DA61	K3	DA55B	LCDC	VW20A	MRMA	HO81
J11	DA61	K3	HO65	LCDD	VW20A	MRVA	HO81
J11	DA62	K35	JA13906	LE	KM17	MT	KM16HD
J14	DA62	K36	AU22	LE	KM28M	MY8A	HO65
J17	DA62	K4	HO65	LF	DA42L	MYBA	HO66
J2	DA56	K7	JA5	LF189	DA42L	MZHA	HO81
J28	AU21	K7	KM10HD	LF229	DA42L	MZKA	HO81
J28	BMW62	K73	AU13	LI	DA16A	N	DA34
J35	JA13907	K8	BMW16	LJ	HO79	N	DA48
J4	DA60	K9C30	TO53LS	LK	KM14	N	FM18
J4	DA64	KAP	DA67	LK	KM14B	N	FM64L
J4	DA65	KC18D	TO47	LKQ85	GM92	N	HO62
J4	JA4	KC7JP23	VW9802	LS8	FM138	N	VW15
J65	JA95A	KE15N	TO18C	M	FM64	N0	HO55
J8	JA4	KF	DA48	M	HO61	N19	AU22
J8	VO26	KF	DA48B	M	HO65	N19	SA8A
J85	BMW95A	KF	KM12BHD	M	HO66	N2	BMW11
J9	JA7	KF	KM12HD	M	HO77	N22	AU21
JA10	JA13905	KF1	DA20	M	VO18	N22	AU22
JA11	JA13906	KF13D	TO40B	M19	BMW42	N24	AU20
JA12	JA13907	KH	KM12BHD	M1WA	HO71	N28	AU22
JA13	JA13906	KH	KM12HD	M24A	HO69	N3	VO13
JB	KM23	KJ	DA48	M28	AU11	N3	VO15
		KJ	KM12BHD	M4	BMW19	N33	BMW43
		KJ	KM12HD	M4	HO66	N33	BMW62
		KJ08	DA48	M4RA	HO69	N35	BMW13901
		KO	DA48B	M4TA	HO69	NA	HO81
		KU	KM12BHD	M5DA	HO68	NC	N33G04
		KU	KM12HD	M5HA	HO68	ND	HO81

CONVERTER CODES

Codes	Part #	Codes	Part #	Codes	Part #	Codes	Part #
ND	N33G05	P5N	HO66	Q17F	FM86	R35	DA15
NE	DA34	P5PM	HO77	Q17FP	FM87	R35B	DA15LS
NEO	DA34	P6	DA61	Q17G	FM86	R35B	FM65
NG	DA34	P6	GM16AF	Q17PF	FM87	R35B	FM65A
NO	HO55	P6	GM16AL	Q2	DA26	R35PC	FM65
NR	KM21	P6	GM1A	Q2	VO28	R4	BMW23
O	DA28	P62	JA95	Q2	VO31	R40B	DA15LS
O	FM64	P72	HO69	Q20	DA17HD	R40B	FM65
O	FM64L	P82	FM3301	Q20	JA13906	R40B	FM65A
O21	BMW51	P8A	HO79	Q20E-G	DA18	R40PB	FM65
O21	BMW52	P8C	HO79	Q20F	DA17F	R40PD	FM65
O3	TO59	P8F	HO80	Q20G	DA17A	R7	BMW17
O7	BMW25	P9	KM17	Q22G	FM86	RA	DA67
O7	TO33	P9	KM28	Q25	FM83	RA	HO72
OA	DA48B	P90	BMW12901	Q25E	DA18	RA	HO81
OACA	VW17	PAA	HO78	Q25F	DA17A	RA	KM26
OADB	VW20	PAA	HO79	Q25F	DA18	RAA	HO81
OD	VO21	PCA	HO78	Q25F	DA30	RAC	HO81
ODM	VO18	PEA	HO78	Q25G	DA18	RAD	HO81
ODM	VO19	PEF	HO80	Q29	JA13906	RBB	HO81
ODM	VO21	PFW	HO79	Q3	VO28	RBJ	HO81
ODS	VO18	PG	HO80	Q32	JA13906	RD	HO82
ODS	VO19	PGC	HO80	Q35	AU13909	RDA	HO80
ODS	VO21	PGK	HO80	Q45	AU23	RDAA	FM68HD
OE26M	TO59	PH4	HO61	Q56	AU24	RDJ	HO82
OH	DA8	PH4.5	HO61	Q61X	AU26	RDJRD	HO82
OI	DA8	PI	HO64	Q6DB	VW20	RF	KM26L
OL	TO44	PL1	HO71	QACA	VW17	RG	KM26
OL14N	TO75	PL5	HO62	QACD	VW20	RGL	HO80
OMO6J	TO75L	PL5X	HO62	QADB	VW20	RGLH	HO80
ON	HO55	PLM	HO68	QADC	VW17	RGLY	HO3001
OP3	GM13	PLM	HO69	QADC	VW20	RGM	HO80
OT	DA8	PN	HO81	QADD	VW21	RGMV	HO3001
OT	DA8B	PN276580	HO81	QBAA	VW1503	RH	KM26L
OU	DA8B	PN276581	HO81	QBACA	VW17	RJ	HO3002
OX1	HO80	PNA	HO81	QBDB	VW20	RJ	HO82
OX17C6	HO80	PO	HO79	QBDC	VW20	RJA	HO3002
P	DA13HD	PO4736582AD	CR2	QBDD	VW20	RJE	HO3001
P	DA28	PO4736830AB	CR86	QBDD	VW21	RL8	DA13HD
P	FM17	PO4736893AB	CR0621	QBDJ	VW21	RM	KM12BHD
P	HO65	POG	HO79	QCCR	VW17	RN	HO3003
P	TO4701	PP	HO72	QCDC	VW20	RNA	HO3003
P04736250AB	CR73	PP	HO81	QCDD	VW21	RNN	HO3003
P04736872AB	CR0923	PPF	HO81	QCDD	VW21	RO	HO67
P04736893AB	CR0621	PR	HO74	QCDD	VW20	RO	SU11
P04752603AA	CR7801	PR018	DA42	QCDV	VW20	RPP	HO81
P1	BMW21	PT4	BMW19	QCDV	VW21	RWC	HO3001
P1	HO64	PT5	BMW23	QDDJ	VW21	RWC5	HO3001
P1	KM15	PT7A	BMW16	QDDT	VW20	RYP	HO3001
P1	KM15B	PVJ	HO82	QDDT	VW21	S	DA37
P141	FM83	PW4	HO71	QEAA	VW1503	S	TO12
P2	DA59	PW5	HO71	QHAA	VW1503	S1	BMW11
P2	DA61	PW7	HO71	R	FM101	S15	HO64
P2	KM11HD	PWA	HO71	R	FM64L	S16	HO64
P3	GM80	PX4B	HO66	R	HO59	S2	DA37
P32	JA13905	PX4B	HO77	R	HO68	S2	KM10HD
P35	AU13908	PXL5	HO62	R	HO71	S3	DA37
P36A	HO3000	PY8A	HO65	R	TO33	S38	BMW62
P36A	HO3001	Q	AU2	R	TO3701	S4	FM4800
P4	HO55	Q	DA13HD	R1	BMW11	S4	KM10HD
P5	HO69	q	HO72	R1	HO3002	S4XA	HO66
P52119671AD	CR7201	q	HO78	R13	BMW32	S5	HO64
P52119671AE	CR7202	Q	VW14	R18	HO67	SA	GM17
P56	AU25	Q1	KM12BHD	R2	BMW11	SA0	GM17
P56	HO69	Q1	KM12HD	R2	BMW17	SA1	GM25
P5A	HO68	Q15	SA8	R290	TO33	SA7	AU11
P5G	HO68	Q17	FM87	R3	BMW11	SA8	AU13
P5M	HO77	Q17F	FM82	R35	AU3	SAO	GM17

CONVERTER CODES

Codes	Part #	Codes	Part #	Codes	Part #
SDAA	FM68HD	TGO3D	TO47	XW4P-BC	FM138SC
SDMA	HO69	TH	KM39A	XW4P-BD	FM138
SE	GM24	TLBX	GM90	XW4P-BD	FM138SC
SE9P	GM24	TLCX	GM90	XX	FM64R
SE9S	BMW29	TLTX	GM90	Y	DA31L
SEHS	BMW29	TMAX	GM92	Y	HO71
SELP	GM24	TMBV	GM54	Y	TO73
SF	GM24	TMBX	GM92	Y	VW13
SF	GM85	TRN45	DA42	Y/030417	TO73
SF1P	FM90	TT	FM64Q	Y12	BMW51
SF1P-AH	FM90	TWBX	GM92	Y13	DA31L
SF6X	GM24	TXBX	GM90	Y4	HO68
SFHE	GM85	U	DA13HD	Y51	TO68
SFHT	GM85	U	FM64	Y51	TO77
SFL7	GM85	U	FM64L	Y51	TO78
SFLP	GM24	U	HO79	Y61	AU13
SFLT	GM85	U	TO66	Y8	HO65
SG9S	BMW29LS	U1	BMW11	YB	KM25
SGHB	GM24-6	U15	HO79	YB-K	KM25
SGHH	GM24-6	U2	BMW12	YC	KM25
SGHR	GM24-6	U23	BMW32	YCA	HO77
SGHS	BMW29LS	U23	BMW80	YE	KM29
SJ	GM24	U27	BMW37	YL2AB	FM134HD
SJ9K	GM24	U3	BMW22	YL2BA	FM134HD
SJ9S	BMW29	U3	VO10	YO	TO79
SJAJ	GM25	U32	BMW80	YOP	TO79L
SJCJ	GM25	U38	BMW12901	Z	FM101
SJHR	GM24-6H	U4	BMW12	Z1	JA3
SJHS	BMW29	UE	BMW22	Z3RZ-A	FM80
SJHS	GM24	UE	VO10	Z6	JA3
SJLP	GM24	V	FM102	Z74	BMW95
SJLS	BMW29	V2	BMW12	ZA	KM34
SLF7	GM85	V3	BMW22	ZB	DA14
SLXA	HO69	V4	BMW12	ZF14B	JA3
SP	GM83	V6	KM12BHD	ZF25	J18
SP1U	GM83	V6	KM12HD	ZF33	SA4
SP1V	GM83	V7	KM13	ZF35	JA5
SP7A	HO69	V7	KM9	ZF38	SA7
SPCA	HO3003	V73	BMW95	ZZ	FM64R
SPIU	GM83	VJCK	GM55		
SPIV	GM83	VJCX	GM55		
SPLT	GM85	VK09N	TO67		
SS	FM64	W	FM64L		
ST1	GM80	W	VW15		
SZHS	BMW29	W2	BMW11		
T	DA13HD	W2	BMW17		
T	FM64L	W2	KM11HD		
T	HO72	W9	KM31H		
T	HO74	WW	FM64R		
T1	DA56	WW9	FM1603		
T2	DA56	WW9	FM160L		
T26	BMW32	WW9	FM160M		
T27	BMW42	X	FM101		
T3	DA80	X4	KM10HD		
T4	DA70	X4	KM11HD		
T45	AU13	X64	AU26		
T45	AU20	XEA7	CR65		
T51	BMW61	XJ25N	TO69B		
T54	KM12BHD	XL2AA	FM68HD		
T54	KM12HD	XW4P	FM138		
T7	DA80	XW4P	FM138-8		
T7	JA3	XW4P-AA	FM138-8		
T8	BMW17	XW4P-AB	FM138-8		
T84	AU14	XW4P-AD	FM138		
TC	KM39	XW4P-AD	FM138-8		
TC	KM49	XW4P-AD	FM138SC		
TF	KM40	XW4P-BA	FM138		
TG	KM39A	XW4P-BC	FM138		

ANATOMY OF A TRANSMISSION

Anatomy of a Transmission

Oil Flow in the Pump-PR-Converter-Cooler Lube Circuits

This tech article originally appeared in Sonnax Transmission Specialties Catalog Vol. 6, and can also be found online in the Sonnax technical library at www.sonnax.com.

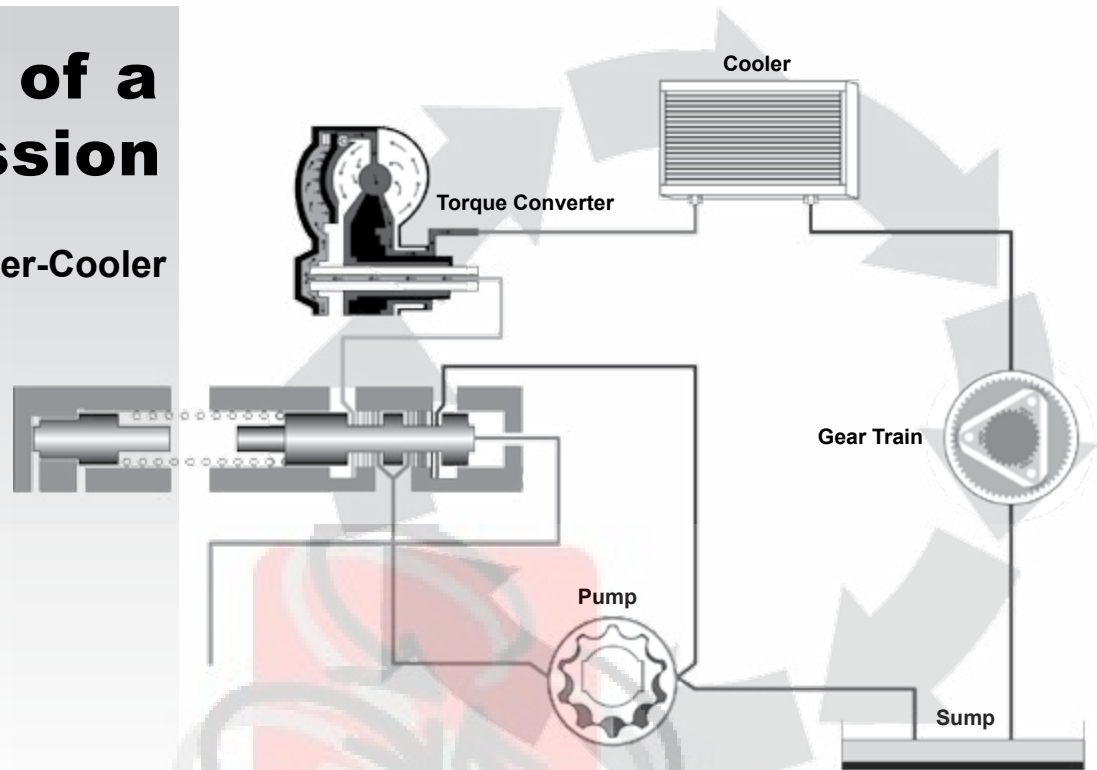


Figure 1

The pump/pressure regulator valve and converter charge/lube oil follow in sequence and are connected in series.

A change in any one of these areas has a direct consequence in others.

Remember the old nursery rhyme, “The hip bone’s connected to the thigh bone, the thigh bone’s connected to the knee bone...?”

Well, it’s the same in a transmission, only the tune goes, “The pump’s connected to the PR valve, the PR valve’s connected to the torque converter, the torque converter’s connected to the cooler, the cooler’s connected to the lubrication circuit...” It’s not quite as catchy as the nursery rhyme, but...

Understanding the connection between transmission components is critical when building a healthy unit or diagnosing a problem one.

The pump/pressure regulator valve and converter charge/lube oil follow in sequence and are literally connected in series (**Figure 1**). A change in any one of these areas has a direct consequence in others. Here we will dig into how these systems are connected and how improved Sonnax parts keep the series from breaking down.

The pressure regulator (PR) valve is the central player in this series. A hydraulic pump is capable of making tremendous amounts of oil pressure. The PR valve limits or regulates pressures to the common 50-250 psi range seen in transmissions. The range of regulated line pressures is determined by a combination of spring and oil pressure forces at both ends of the PR valve. Typically

the PR spring and boost valves push the PR valve in one direction, and balance pressure opposes or pushes the valve in the other direction into its regulating position. At start-up, the PR moves into its regulating position when there is enough oil pressure on the balance area(s) of the valve to overcome spring (and typically boost valve) forces. Once the pump creates enough line pressure to move the pressure regulator valve into its regulating position, the PR valve then directs excess pump volume to exhaust or back to the intake/suction side of the pump.

Regulated line pressure is the amount of balance oil pressure required to move the PR valve against opposing forces and into its regulating position. This is true whether the PR is a simple valve with spring and boost valve or a more complex type with multiple reaction and balance areas at both ends of the valve. Here we will refer to the PR as being “in balance” when there is enough pressure to keep the PR valve in its regulating position. We will refer to it as “out of balance” when there is not enough oil pressure to keep the PR valve in its regulating position.

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How PR Valves Control Oil Flow to Converters

In many transmissions, the PR valve has another, less-understood function. The main line pressure regulator valve also controls the volume of oil that is fed to the torque converter. This, in turn, has a direct effect on converter release/fill pressure, cooling, lubrication and, in some cases, TCC apply pressure. In controlling converter feed, the PR valve is a type of priority valve. That is, it gives more priority to line pressure and less priority to converter/lube pressure. While there are some units which are exceptions to this, the majority of common transmissions have either the converter fed directly from the PR valve, or the flow to the converter controlled by the PR valve.

Figures 2 and 3 illustrate a simple main line pressure regulator valve in two positions: in balance with converter feed open (Figure 2) and out of balance with converter feed restricted (Figure 3). Regardless of the valve configuration, the concept of in balance and out of balance applies to all types of main line pressure regulators that control converter charge. The key to remember is that for the PR valve to remain in balance (with the converter circuit open), the forces at both ends of the valve must be near equal. If the PR valve stays out of balance for extended amounts of time, converter/lube oil will be restricted.

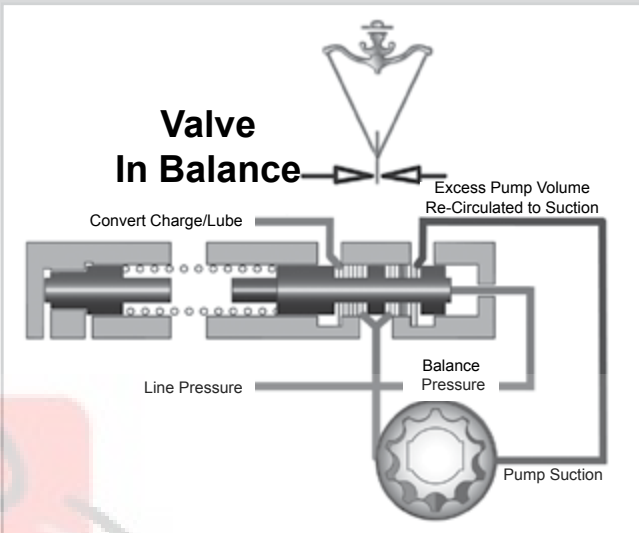
Once this critical threshold is crossed and the PR valve is out of balance for any length of time, everything falls apart (the torque converter and/or transmission).

An example of how the PR valve controls converter/lube oil can be seen in the graph (Figure 4) showing line pressure and cooler flow during a shift.

One thing we have all seen while pressure testing is that slight needle twitch or momentary pressure drop when shifting. If you watch line pressure *and* cooler flow at the same time, when line pressure drops, you will see a corresponding change in cooler flow. This is because the pressure drop makes it all the way back to the balance end of the PR valve, and the forces at the other end of the PR valve overcome the reduced balance/line oil pressure and the PR valve moves out of balance. This restricts converter charge and the oil being re-circulated to the intake side of the pump. Converter charge is restricted, and priority is given to line pressure until it returns to the level that is sufficient to move the PR valve back to its in-balance regulating position. When everything is healthy and normal, this happens in an instant and is the way the system is supposed to work. Problems begin when the PR valve stays out of balance for extended periods of time.

The PR valve is in its "normal" regulating position, what we will refer to here as "in balance." In this position, the converter charge/lube oil is not restricted, and excess pump volume is redirected to the suction side of the pump.

Figure 2



Here the PR valve moved over to the right. In this position, converter charge/lube oil and the oil re-circulated to the suction side of the pump are restricted and at times completely cut off. This is what we call "out of balance."

Figure 3

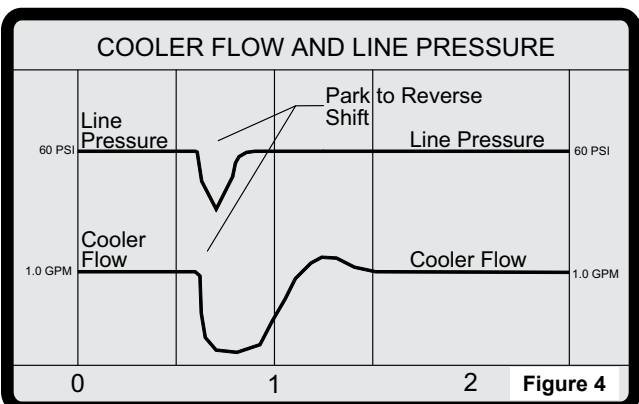
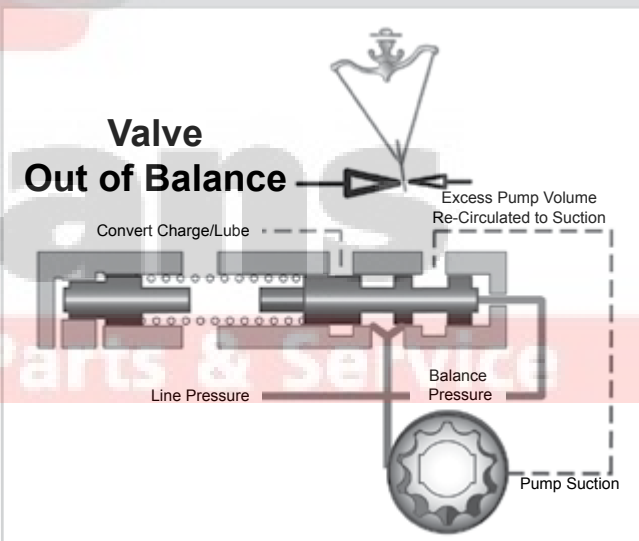


Figure 4

ANATOMY OF A TRANSMISSION

The priority valve characteristic means that if the PR valve is near that critical balance threshold, converter charge and lube oil are restricted. In effect, it's choking off the oil flow, ultimately leading to converter overheating, TCC slip or lube failure in the transmission.

Problems at either end of the PR valve can put it out of balance. One end of the PR valve can have too much spring or boost pressure, putting extra load on the pump (**Figure 5**).

At the other end, there may not be enough balance pressure due to leaks or a weak pump (**Figure 6**).

Examples of Excessive Spring or Boost Pressure

Figure 5

- RWD Chrysler/E4OD and others, too strong a PR spring or over-adjusted.
- 4L80-E and others, worn boost valve, cross leaks causing high reverse line pressure.
- Any unit in fail safe with max EPC boost pressures.
- 4L80-E, with too low idle and high EPC amps.

Examples of Low Balance Pressure

Figure 6

- 400/200C, worn PR bore.
- CD4E, PR bore wear.
- 4L80-E, PR end plug leak.
- Any unit with weak/worn pump or excessive internal leaks.

PR Valves & Pump Output

Picture a diesel truck lugging a load up a long incline: RPMs are low and desired line pressure is high. If pump output cannot maintain line pressure, the PR valve will move out of balance. Remember, the PR gives priority to line pressure, so it is conceivable under these circumstances to have near normal line pressure (and clutch holding capacity), but little or no cooler/lube flow due to the PR being out of balance. Imagine watching cooler flow drop off to nothing right at this critical time!

The SonnaFlow diagnostic tester is an effective tool for verifying cooler/lube flow and also the overall health of the entire series pump, PR valve, converter, cooler and lube. **See page 16 for details.**

I know you have seen the results – another set of melted planets, that mysterious black ring on the front of the converter, or the converter paint burned and peeling off. Or, how about the commercial unit that spends a lot of time idling in gear? Usually the most demanding time for a pump is hot, at idle (when RPMs are lower), in reverse

when the desired pressure is higher. At this point, relative load on the pump is at its highest and the PR valve is often out of balance. Converter release/fill oil flowing through the converter is required to keep the TCC piston away from the front cover. An out-of-balance PR valve means little or no flow inside the converter, allowing the TCC piston to drag against the front cover leading to idle surging, engine stall or glazed TCC friction material. Once glazed or overheated, the friction lining's ability to hold against engine torque is reduced.

Whether a low 60 psi at idle or 160 psi under load, the specific line pressure is not as significant as the pump's ability to maintain that line pressure and keep the PR valve in balance in its regulating position. While this applies both to vane- and gear-style pumps, vane-style pumps are variable displacement and can increase their volume to maintain line pressure. Gerotor, or gear- and crescent-type pumps, are more of a concern because they are fixed displacement and have lower output at low RPM and idle speeds.

The pump's ability to maintain desired line pressure and keep the PR valve in balance also has variables. You can have a good pump, but leaks in other oil circuits inside the transmission will consume oil pump volume and reduce the pump's ability to create pressure. On the other hand, no internal leaks plus a worn or inefficient pump will exhibit the same problem maintaining line pressure. Think in terms of an air compressor volume/CFM and air tools. The compressor's ability to maintain pressure is related to how many air tools you run at the same time. Too many air tools and your compressor will not have enough CFM (volume) to maintain pressure, and air pressure will drop below its normal range.

Due to fuel efficiency concerns, the typical transmission pump does not have much reserve capacity. Pump volume is needed to maintain pressure: Pressure is needed to keep the PR valve in balance. Internal leaks throughout the transmission waste pump volume. All those little leaks which build up over time end up consuming available pump volume and reducing the pump's ability to build/maintain line pressure, keeping the PR valve in balance. Some approaches attempt to compensate for wear by recalibrating with springs and enlarging orifices with drill bits, etc. This is only a temporary fix and does not address the root causes of wear or compensate for continued internal leakage. As you look through the Sonnax transmission parts catalog, you will see the majority of the parts reduce internal leakage. All the O-ringed sleeves and end plugs, valve bore repairs, oversized valves and precision bushings work in concert to minimize internal

ANATOMY OF A TRANSMISSION

oil leaks. This not only alleviates symptoms related to the part, but also has the advantage of conserving pump volume.

Line-to-Lube Modification

To line-to-lube or not to line-to-lube, that is the question! Line-to-lube modification is adding an oil path between the line pressure and converter feed circuits, kind of bypassing the PR valve, so even if the PR valve is out of balance, there is always an oil path for oil to enter the converter feed circuit. So why don't manufacturers build line-to-lube into the transmission? In fact, many do! On the 4L60-E it's that little flat on the PR valve land. Some other units feed through a designed-in orifice or slot in a gasket. Can you drill your own line-to-lube passage? Yes, but all too often the resulting hole is too large and allows too much oil to the converter, leading to over pressurizing, converter drainback and customer complaints. The patented Sonnax PR valves shown in **Figure 7** have an internal line-to lube passage and also feature an anti-drainback valve that prevents converter drainback when the vehicle is shut off.

The converter hub/pump bushing deserves special attention. Excessive converter bushing clearance causes pump noise, wear and reduced pump efficiency. In addition to supporting one end of the bulky converter and keeping the inner pump gear on center, the hub/pump bushing helps prevent converter oil pressure from bleeding off and exhausting through the front seal drainback hole. This is a common issue with AXODE, AX4N and Chrysler units.

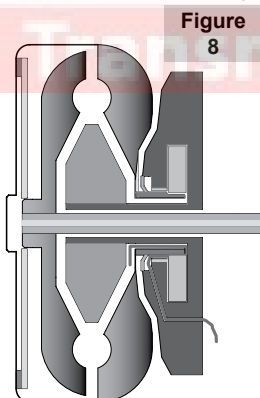


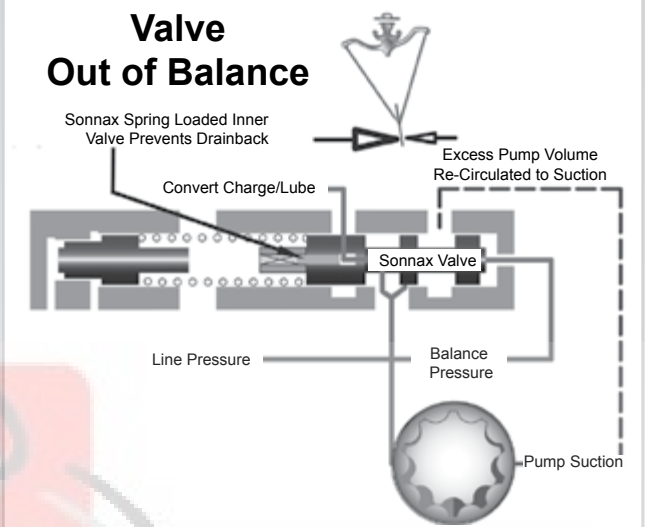
Figure 8

Figure 8 shows a cross section of a typical torque converter with pump and shows the path converter oil can take from inside the converter through the pump bushing to exhaust. Excessive converter oil flow past the converter hub bushing contributes to front seal leaks and allows converter oil pressure a direct path to exhaust. This can lower converter/lube pressure and, in some cases, TCC apply pressure.

This is one reason why some manufacturers have moved toward putting a seal between the inner pump gear and the converter hub (4R44E and others), or between the stator tube and inside of the converter hub (48RE). These features help keep pump oil in the pump and converter oil in the converter. As an example of how excess clearance can get us in trouble,

Here the PR valve is in the "out of balance" position, however with the Sonnax line-to-lube valve, oil continues to flow into the converter charge/lube circuit through the internal passage inside the valve. Drain back is prevented with an internal check valve.

Figure 7



consider a 2" diameter converter hub with an extra .003" hub-to-bushing clearance. The area of the extra .003" clearance has essentially the same area as a .100" hole, allowing converter pressure to bleed to exhaust. While there are other factors to consider with this example, a .100" hole is a lot of leak to overcome.

When dealing with any transmission, keep in mind the connection between the components discussed here and how checking cooler flow gives insight not just to the cooler and lube, but the whole series all the way back to the PR valve and pump. When checking parts and clearances, this knowledge will help you understand the combined effect can be when things loosen up and allow internal leakage. ◀

ANATOMY OF A TRANSMISSION



Nobody knows transmissions like Sonnax!

Sonnax transmission parts combine the latest in automotive technology with outstanding reliability, performance and durability.

Testing & Reaming are the keys to proper valve body restoration.

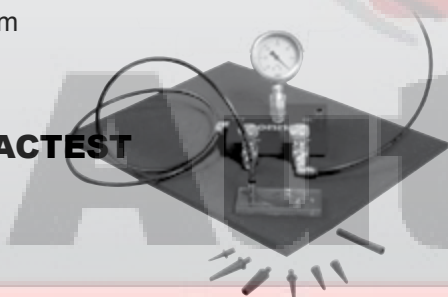
Sonnax vacuum test stand.

A worn valve or valve body bore can result in incorrect pressures in the transmission, which may lead to poor performance or failure of the transmission. Proper vacuum testing equipment is required to determine if a valve or bore is worn, or to make sure a valve repair has been performed correctly. Sonnax offers a vacuum test stand kit to help fill this need.

Whether diagnosing a problem valve body or verifying the remanufacturing process,

the Sonnax vacuum test stand kit is an invaluable tool.

Part No. T-VACTEST



Reaming worn bores with the patented **Sonnax VB-FIX reaming fixture** is the only way to ensure quality results.

The patented VB-FIX provides an external, rigid pilot bore for a reamer and guide pin, allowing the fixture to be used on multiple valve bodies and valve bores.

This fixture, along with specially designed Sonnax tool kits and parts, allows otherwise unrepairable valve bodies to be restored.

Part No. T-VB-FIX



SONNAFLOW®

Part No. T-FM-01K

Verify adequate cooler/lube flow during actual road testing!

The old method of checking cooler flow by removing the return line and measuring flow into a bucket doesn't tell you anything about what happens under normal driving conditions. The Sonnax Sonnaflow is a simple way anyone can check cooler flow under all driving conditions.

- Measures ATF flow in gallons per minute (GPM) while driving
- Quickly and easily installs into any vehicle
- Includes tech manual and charts showing cooler flow parameters for most common transmissions



The Sonnaflow kit includes a sensor that is quickly and temporarily installed in the cooler lines and has a digital read-out in the driver's compartment. This is especially helpful for monitoring cooler flow when TCC engages, and making sure flow does not drop off to critical levels under load or at idle.

CONVERSION CHART

ENGINE CONVERSION CHART — C.I.D. TO LITRE

ENGINE C.I.D.	LITRE	CYL.	ENGINE C.I.D.	LITRE	CYL.	ENGINE C.I.D.	LITRE	CYL.	ENGINE C.I.D.	LITRE	CYL.
85.0	1.4L	4	198	3.2L	6	283	4.6L	V8	369	6.4L	V8
97.0	1.6L	4	200	3.3L	V6	289	4.7L	V8	390	6.4L	V8
98	1.6L	4	204	3.3L	V6	292	4.8L	6	391	6.4L	V8
104.7	1.7L	4	207	3.4L	V6	300	4.9L	6	392	6.4L	V8
105	1.7L	4	215	3.5L	6	301	4.9L	V6	394	6.5L	V8
107.8	1.8L	4	221	3.6L	V8	302	5.0L	V8	398	6.5L	V8
109.9	1.8L	4	223	3.7L	6	304	5.0L	V8	400	6.6L	V8
110	1.8L	4	225	3.7L	6	305	5.0L	V8	401	6.6L	V8
112	1.8L	4	229	3.8L	V8	307	5.0L	V8	402	6.6L	V8
121	2.0L	4	230	3.8L	V8	312	5.1L	V8	403	6.6L	V8
121.3	2.0L	4	231	3.8L	V8	318	5.2L	V8	406	6.7L	V8
121.5	2.0L	4	232	3.8L	V8	324	5.3L	V8	409	6.7L	V8
122	2.0L	4	235	3.9L	6	327	5.4L	V8	410	6.7L	V8
135	2.2L	4	238	3.9L	V8	330	5.4L	V8	413	6.8L	V8
140	2.3L	4	240	3.9L	L6	331	5.4L	V8	420	6.9L	V8
144	2.4L	6	241	4.0L	V8	332	5.4L	V8	421	6.9L	V8
150	2.5L	4	242	4.0L	6	340	5.6L	V8	423	7.0L	V8
151	2.5L	4	243	4.0L	L6	341	5.6L	V8	426	7.0L	V8
153	2.5L	4	245	4.0L	V6	348	5.7L	V8	427	7.0L	V8
156	2.6L	4	250	4.1L	V6	350	5.7L	V8	428	7.0L	V8
170	2.6L	6	252	4.1L	V6	351	5.8L	V8	429	7.0L	V8
171	2.6L	V8	255	4.2L	V8	352	5.8L	V8	430	7.0L	V8
173	2.6L	V8	256	4.2L	V8	354	5.8L	V8	432	7.1L	V6
177	2.9L	V8	258	4.2L	6	358	5.9L	V8	440	7.2L	V6/V8
179	2.9L	V6	260	4.3L	V6/V8	360	5.9L	V8	446	7.3L	V8
181	3.0L	V6	262	4.3L	6/V8	361	5.9L	V8	454	7.4L	V8
183	3.0L	V6	265	4.3L	V8	366	6.0L	V8	455	7.5L	V8
189	3.1L	V6	267	4.4L	V8	368	6.0L	V8	460	7.5L	V8
194	3.2L	6	279	4.4L	V8	370	6.1L	V8	472	7.7L	V8
195	3.2L	V8	272	4.5L	V8	379	6.2L	V8	475	7.8L	V8
196	3.2L	V6	280	4.6L	V8	381	6.2L	V8	477	7.8L	V8
						383	6.3L	V8	503	8.2L	V8

NOTE: For any engine not listed above, use the following multipliers for proper conversion:

C.I.D to Liters - Multiply by .016395

Liters to C.I.D - Multiply by 61.025

MEASUREMENT CONVERSION CHART

Fractions Inch	Decimal Inch	Metric (Millimeter)	Fractions Inch	Decimal Inch	Metric (Millimeter)
1/64	.015625	.39688	33/64	.515625	13.09687
1/32	.03125	.79375	17/32	.53125	13.49375
3/64	.046875	1.19062	35/64	.546875	13.89062
1/16	.0625	1.58750	9/16	.5625	14.28750
5/64	.078125	1.98437	37/64	.578125	14.68437
3/32	.09375	2.38125	19/32	.59375	15.08125
7/64	.109375	2.77812	39/64	.609375	15.47812
1/8	.125	3.17500	5/8	.625	15.87500
9/64	.140625	3.57187	41/64	.640625	16.27187
5/32	.15625	3.96875	21/32	.65625	16.66875
11/64	.171875	4.36562	43/64	.671875	17.06562
3/16	.1875	4.76250	11/16	.6875	17.46250
13/64	.203125	5.15937	45/64	.703125	17.85937
7/32	.21875	5.55625	23/32	.71875	18.25625
15/64	.234375	5.95312	47/64	.734375	18.65312
1/4	.250	6.35000	3/4	.750	19.05000
17/64	.265625	6.74687	49/64	.765625	19.44687
9/32	.28125	7.14375	25/32	.78125	19.84375
19/64	.296875	7.54062	51/64	.796875	20.24062
5/16	.3125	7.93750	13/16	.8125	20.63750
21/64	.328125	8.33437	53/64	.828125	21.03437
11/32	.34375	8.73125	27/32	.84375	21.43125
23/64	.359375	9.12812	55/64	.859375	21.82812
3/8	.375	9.52500	7/8	.875	22.22500
25/64	.390625	9.92187	57/64	.890625	22.62187
13/32	.40625	10.31875	29/32	.90625	23.01875
27/64	.421875	10.71562	59/64	.921875	23.41562
7/16	.4375	11.11250	15/16	.9375	23.81250
29/64	.453125	11.50937	61/64	.953125	24.20937
15/32	.46875	11.90625	31/32	.96875	24.60625
31/64	.484375	12.30312	63/64	.984375	25.00312
1/2	.500	12.70000	1	1.00	25.40000

CATALOG UPDATE

NEW ITEMS

Transmission	Part #	Transmission	Part #	Transmission	Part #
GM		CHRYSLER (Cont.)		VW	
TH350	GM4401	A604, 40TE, 41TE	CR0920	01M, 01N, 01P	VW20A
4L60E, 4L65E, 4L70E	GM46	A604, 40TE, 41TE	CR0921	01M, 01N, 01P	VW21A
4L60E, 4L65E, 4L70E	GM54	A604, 40TE, 41TE	CR0923	09D, TR60SN	PCH59
4L60E, 4L65E, 4L70E	GM93	A727, TF8	CR10HP-10	09D, TR60SN	VW59
4T80E	GM9401	A904, TF6	CR13	09G, TF60SN	BMW1501
5L40E, 5L50E	GM37A	AS68RC (A465)	CR9901	09G, TF60SN	VW1501
5L40E, 5L50E	GM38A	AS68RC (A465)	KM9901	09G, TF60SN	VW1502
6L45, 6L50, 6L80, 6L90	GM10401	AISIN WARNER		09G, TF60SN	VW1503
6L45, 6L50, 6L80, 6L90	GM10402	AW 50-40LE, 50-42LE	TO69B	ZF	
6L45, 6L50, 6L80, 6L90	GM10403	AW 50-40LE, 50-42LE	TO8901	ZF4HP14, ZF4HP18	BMW16
6L45, 6L50, 6L80, 6L90	GM10404	AW 50-40LE, 50-42LE	TO8902	ZF4HP14, ZF4HP18	SA8A
6L45, 6L50, 6L80, 6L90	GM10405	AW 50-40LE, 50-42LE	TO8903	ZF4HP16	ZF1890
6L45, 6L50, 6L80, 6L90	GM10406	AW 60-40LE, 60-41E	TO62A	ZF5HP19	AU13909
6T40, 6T45	GM1441	HONDA		ZF5HP19	AU26
6T70, 6T75	GM1241	131T Ring Gear	HO3000	ZF5HP19	BMW12901
6T70, 6T75	GM1242	131T Ring Gear	HO3001	ZF5HP19	PCH54
AW80-40LE, AW81-40LE	GM1991	131T Ring Gear	HO3003	ZF5HP19	PCH54A
1000, 2000, 2400	A7XL-S1	MAZDA		ZF5HP24	AU13908
1000, 2000, 2400	A7X-S1	FNR5, FS5A-EL	FM4800	ZF5HP24	BMW13900
1000, 2000, 2400	AL1210	JF506E, 09A	VW9800	ZF5HP24	BMW13901
1000, 2000, 2400	AL1211	JF506E, 09A	VW9801	ZF5HP24	BMW13902
1000, 2000, 2400	AL1212	JF506E, 09A	VW9802	ZF5HP24	BMW13903
FORD		NISSAN		ZF5HP24	BMW13904
5R110W	FM1603	F4A41/42, F4A51/51	KM31H	ZF5HP24	JA13905
5R110W	FM1603-S1	F4A41/42, F4A51/51	KM31M	ZF5HP24	JA13906
5R110W	FM160L	F4A41/42, F4A51/51	KM39	ZF5HP24	JA13907
5R110W	FM160L-S1	F4A41/42, F4A51/51	KM39A	ZF6HP19	AU14
5R110W	FM160M	F4A41/42, F4A51/51	KM40	ZF6HP19	BMW55
5R110W	FM160M-S1	F4A41/42, F4A51/51	KM41	ZF6HP26	BMW45
5R55N, 5R55S, 5R55W	FM4600	F4A41/42, F4A51/51	KM49	ZF6HP26	BMW95
5R55N, 5R55S, 5R55W	FM67HD	F4A41/42, F4A51/51	KM8201	ZF6HP26	BMW95A
6F35	FM1441	F4A41/42, F4A51/51	KM8202	ZF6HP26	JA95
6F50, 6F55	FM1241	SUBARU		ZF6HP26	JA95A
6F50, 6F55	FM1242	4 Speed, 4EAT	SU11M		
6R140	FM1261	4 Speed, 4EAT	SU14HS		
6R140	FM1262	4 Speed, 4EAT	SU16A		
6R60, 6R75, 6R80	FM9501	4 Speed, 4EAT	SU16B		
6R60, 6R75, 6R80	FM9502	5 Speed, 5EAT	SU6301		
AOD	FM55BHP-11	5 Speed, 5EAT	SU6302		
AODE, 4R70, 4R75 Series	FM69LHD	CVT Lineartronic	SU3301		
AODE, 4R70, 4R75 Series	FM70HD	TOYOTA			
C-4 (1964-69)	FM18HP-10	A340 Series, AW4	TO14701		
C-4 (1964-69)	FM18HP-11	A340 Series, AW4	TO47L		
C-4 (1970-81)	FM18AHP-10	A340 Series, AW4	TO97		
C-6	FM127HP-10	A340 Series, AW4	TO9701		
C-6	FM127HP-11	A40D Series (Lock Up)	TO81		
CFT30	FM3301	A650E	TO44B		
E40D, 4R100 (6 Stud)	FM64RX-S1	A750E	TO15701		
TF-80SC, TF-81SC	FM3901	U140E, U240E	TO64		
TF-80SC, TF-81SC	FM3902	U140E, U240E	TO64A		
TF-80SC, TF-81SC	VO3901	U340E, U341E	TO3701		
CHRYSLER		U660E	TO4701		
42RLE	CR0621				
45RFE, 5-45RFE	CR2B				
62TE	CR1320				
62TE	CR1323				
68RFE	CR7201				
68RFE	CR7201-S1				
68RFE	CR7202				
68RFE	CR7202-S1				
722.6 (Mercedes)	CR7801				
A518, A618	CR70X-S2				
A518, A618	CR94L-S1				

CATALOG UPDATE CHANGES & DELETIONS

2008 Catalog	New #	Part #	2008 Page #	Part #	2008 Page #
AU30	AU13908	GM C.I.P.G.		Borg Warner T35 (Cont.)	
AU31	AU13909	PCH1	31	VO5, VO5A	80, 81
BMW39	BMW13900	PCH2	31	VO9A	80
BMW64	BMW12901	PG1	30	Borg Warner T65	
BMW70	BMW13900	GM ST-300		BMW2	81
BMW75	BMW13901	GM1	29	VO4A	81
BMW76	BMW13902	GM4	29	Mazda F3A	
BMW77	BMW13903	GM7	29	DA7	92
BMW78	BMW13904	Ford ATX		DA7A	92
CR13203	CR1323	FM56	45	DA10	93
CR13H	CR13	FM56A	45	DA12	92
DA67L	DA67	FM620HD	45	DA12A	92
DA90	VW9800	FM63	45	DA22	92
FM64-5R	FM160L	FM63A	45	DA23	92
FM64-5RM	FM160M	Ford 3 Speed BW 8-12		DA32A	93
FM72	FM71	FM37	53	DA49A	93
FM72H	FM71H	JVT4	53	Mercedes 722.0, 722.1	
GM1041	GM10401	JVT5	53	MB27	100
GM1042	GM10402	RA12	53	MB28	100
GM1043	GM10403	RA14	53	MB34	100
GM1044	GM10404	RA3	53	MB35	100
GM1045	GM10405	Ford C-3		MB36	100
GM1046	GM10406	FM119	33	Mercedes 722.2	
GM1A	GM4401	FM121	33	MB25	101
GM22	GM14	FM123	33	MB26	101
GM23	GM15ALF	FM130	33	MB29	101
GM30	GM16AF	FM130LS	33	Nissan L3N71B	
GM350	GM4401	FM139	33	DA2	114
GM64	GM63	FM140	33	DA3	114
GM65	GM63	Ford C-4 Capri		DA4	114
GM66	GM73	CP1	37	FM54	114
GM68	GM73	CP2	37	Nissan RL3F01A	
GM69	GM73	CP3	37	DA6HD	116
GM77	GM71	CP4	37	DA9	116
GM78	GM42	CP5	37	Toyota A30	
GM79	GM73	Ford 2 Speed		TO3	126
HO3002	HO82	FM1	52	TO4	126
HO75	HO71	FM10	52	TO6	126
JA10	JA13905	FM11	52	TO7	126
JA11	JA13906	FM12	52	VO8	126
JA12	JA13907	FM13	52	VO17	126
MB18C	MB18	FM14	52	Toyota A440F, A442F	
MB7801	MB18A-3	FM16	52	TO34	140
MB8801	MB21-3	FM22	52	TO46	140
SU2301	SU14HS	FM6	52	TO50	140
SU2304	SU16A	FM7	52	Toyota A55, A55F	
TO32B	TO47	FM8	52	TO14	131
VW0980	VW9800	FM9	52	TO14A	131
VW0981	VW9801	Borg Warner T35		VW 003	
VW0982	VW9802	DA1	80	VW9	147
VW15901	PCH59	JA2	80	VW10	147
VW23	PCH59	JA6	80	VW12	147
VW4	VW13	RA10	80	ZF3HP-22	
ZF12901	BMW12901	RA13	80	BMW26	156
ZF13901	BMW13901	RA15	80	BMW27	156
ZF13902	BMW13902	RA4	80	BMW3	156
ZF13903	BMW13903	RA5	80	BMW33	156
ZF13904	BMW13904	RA6	80	BMW4	156
ZF13905	JA13905	RA8	80	BMW4B	156
ZF13906	JA13906	SA1	80	BMW6	156
ZF13907	JA13907	SA3	80	BMW7	156
		SA6	80	BMW7E	156
		VO1	80	BMW7L	156
		VO2	80	BMW7S	156
		VO3	80	BMW8	156
		VO4	80, 81	BMW9	156

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Part #	Page	Part #	Page	Part #	Page	Part #	Page	Part #	Page
A3HD	19	BMW37	246	CR12	116	CR52L	120	CR88	101
	50	BMW38	39	CR13	125	CR53H	123		111
A6HD	19	BMW38LS	39	CR1320	97	CR53L	123	CR90	105
	50	BMW40L	39	CR1323	97	CR54H	114		123
A7	48	BMW41	39	CR15H	125	CR54L	114	CR91	104
A7X	48	BMW42	247	CR15L	125	CR55H	114		126
A7XH	48	BMW43	251	CR16H	126	CR55L	114	CR92	106
A7XL	48	BMW45	256	CR16L	126	CR58	106		117
A7XL-S1	48	BMW51	248	CR17	115	CR61	106	CR93	105
A7X-S1	48	BMW52	248	CR18	115	CR62	106	CR94	107
A9HD	50	BMW53	248	CR19	115	CR63	107	CR94L	107
AL1210	49	BMW55	255	CR20	117	CR64	107	CR94L-S1	107
AL1211	49	BMW61	251	CR21	117	CR65	107	CR97	104
AL1212	49	BMW62	251	CR22	117		106		122
AU2	239	BMW63	251	CR23H	118	CR66	117	CR9901	127
AU3	241	BMW80	254	CR23L	118	CR67	104	CR0621	95
AU11	250	BMW95	256	CR24H	119		103		112
AU13	250	BMW95A	256	CR24L	119	CR68	121	CR0920	111
	255	BMW1501	237	CR25H	118		105	CR0921	111
AU14	256	BMW12901	251	CR25L	118	CR69	123	CR0923	111
AU20	249	BMW13900	252	CR26H	119	CR70L	108	DA8	181
AU21	249	BMW13901	252	CR26L	119	CR70X	108	DA8A	181
AU22	249	BMW13902	252		106	CR70X-S1	108	DA8B	181
AU23	249	BMW13903	252	CR27	114	CR70X-S2	108	DA11HD	185
AU24	249	BMW13904	253		105	CR70X-S3	109	DA13HD	185
AU25	249	CP6	75	CR28	126	CR70X-S4	109	DA14	181
AU26	250		76	CR29	105	CR70X-S5	109	DA15	155
AU13908	252	CR1	124	CR33N01	183		101	DA15LS	155
AU13909	250	CR2	96	CR33N02	183	CR72	110	DA16A	188
	252	CR2A	96	CR35	100	CR7201	98	DA16HD	188
BMW11	245	CR2B	96	CR36	120	CR7201-S1	98	DA17A	153
BMW12	244	CR3	124	CR37	120	CR7202	98	DA17F	153
BMW13	244	CR4	124	CR38	120	CR7202-S1	98	DA17HD	153
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WARRANTY

Recon™ by Transtar Torque Converter LIMITED WARRANTY

All Recon by Transtar Torque Converters supplied are warranted to be free from manufacturing defects in material and workmanship for a period of 36 months or 36,000 miles (58,000 kilometers) from the date of purchase, whichever occurs first. This warranty is voided, and no warranty shall apply to products that have been altered, improperly installed, maintained or repaired; contaminated with oil or grease; or damaged as a result of overheating, by accident, negligence, misuse, race or off-road use, or any other unauthorized use.

The above warranty is exclusive and in lieu of any other express or implied warranty of merchantability, fitness for a particular purpose or other warranties of quality, guarantees or representations, whether express or implied, except the warranty of title. Further, all express or implied warranties with respect to the product sold are limited to the duration of this warranty or the warranty of any third-party customer, supplier, dealer, jobber, provider, manufacturer or distributor of such product supplied hereunder, whichever is less, and specifically does not exceed and/or replace any such third-party warranty.

Any and all parts returned to Transtar for warranty claim must be returned through the customer, dealer, jobber, provider or distributor from whom it was purchased, in accordance with applicable policy and procedure, with a written explanation of how the part(s) were installed and operated. Transtar reserves the right to inspect and examine all parts returned to it for warranty claim to determine whether or not any such part has failed because of a defect in material or workmanship. The obligation under this warranty shall be strictly limited to replacing or crediting, at Transtar's option, any part found to be so defective. This warranty excludes, and Transtar shall not be liable for any labor charges or other special, punitive, incidental, exemplary or consequential damages (including without limitation, lost revenues or profits), regardless of whether such damages were foreseeable and whether or not Transtar was advised of the possibility of such damages. In no event shall Transtar's aggregate liability exceed the total amount paid to Transtar with respect to the product sold. The above sets forth Transtar's sole liability and entire obligation, and the exclusive remedy for any action that is brought against Transtar.