

# **TRANSTAR**

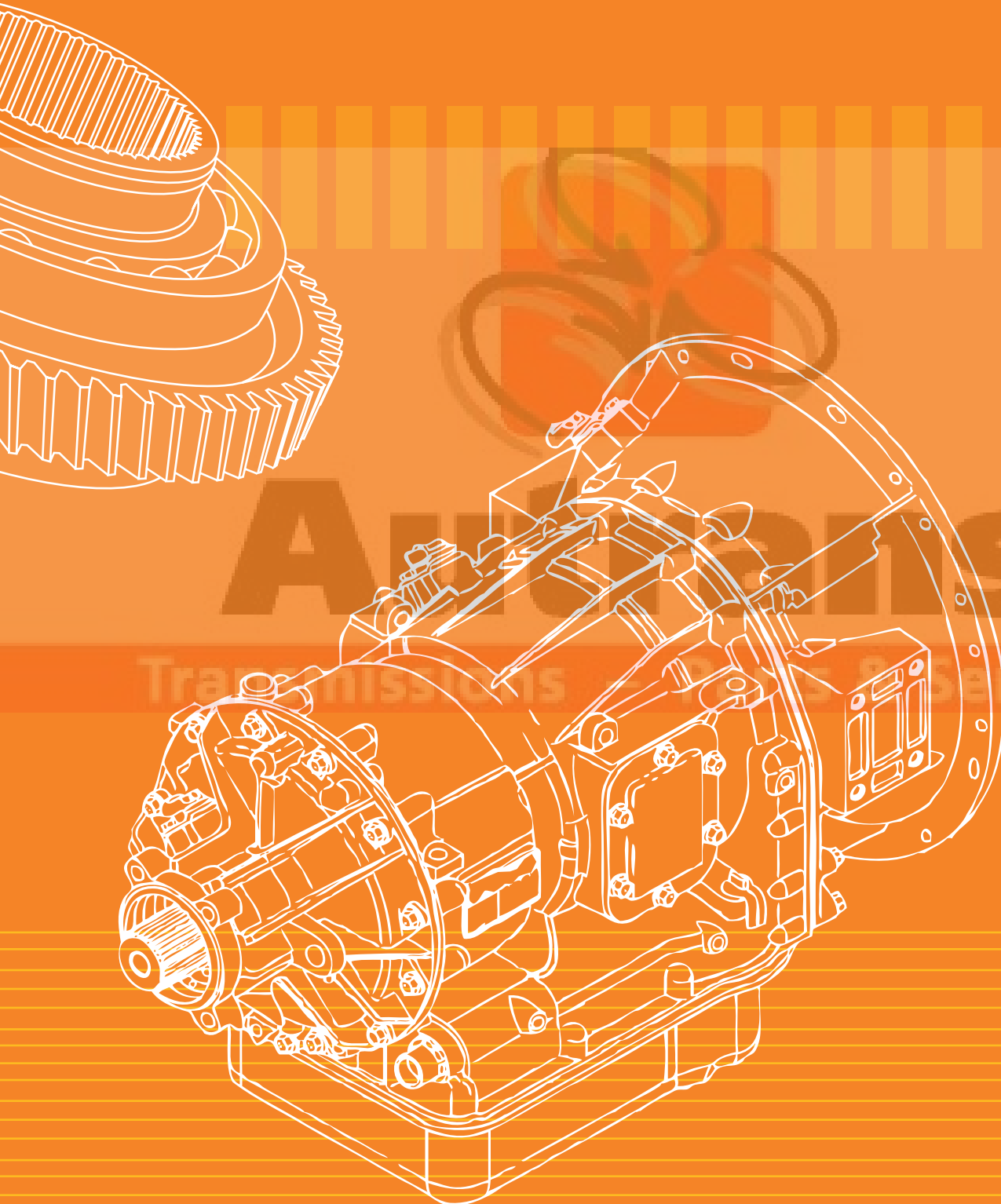
**TRANSTAR INDUSTRIES, INC.®**

## Allison Catalog

2011



# ALLISON CATALOG



# COMMITMENT IS MORE THAN SKIN DEEP

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the Transtar seal of  
quality, you can trust that  
when you build it once,  
you've built it right.

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Good Used / Remanufactured





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## Catalog No. AL2011

Replacement Parts for Allison Automatic Transmissions

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# ALLISON

## **Transtar: The premier provider of world-class driveline solutions™**

Among Transtar's extensive product offerings, we carry a wide variety of OE New, Aftermarket New and Remanufactured Replacement parts for Allison automatic transmissions. Allison components are utilized in many sectors including bus, refuse, fire, construction, distribution, military and specialty applications.

This catalog features 'on' highway kits and components and is divided into six main sections:

- Prior Models
  - AT500 Series (Light Duty)
  - MT600 Series (Medium Duty)
  - HT700 Series (Heavy Duty)
- World Design
  - 1000/2000 Series (Light Duty)
  - 3000 Series (Medium Duty)
  - 4000 Series (Heavy Duty)

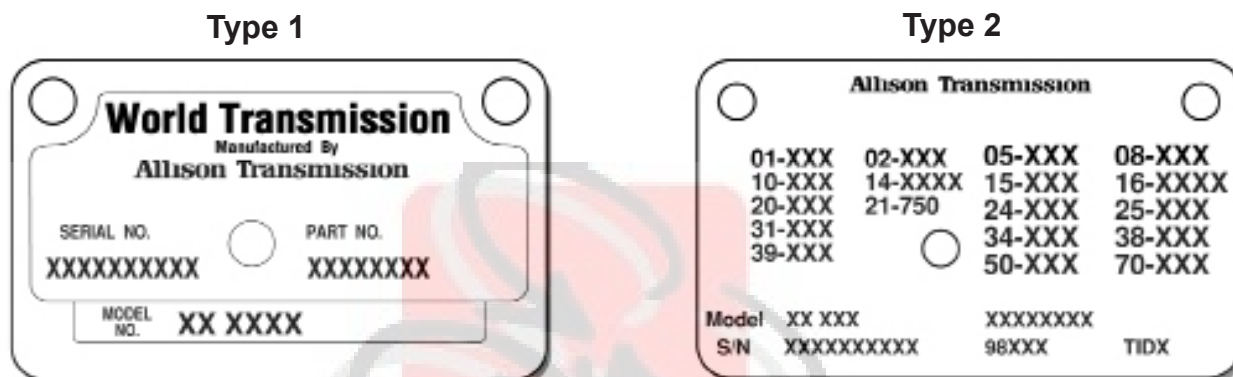
**Note:** Specific 'on' highway model components are special order only and the models are listed in the lead page in each section. 'Off' highway kits and components are also special order only.

**Components that are unique to early model (lead units) are no longer available.**

To determine which section a product is in, customers will need to know three numbers:

1. **The Model Number:** The basic design level of a family of transmissions (i.e. MT643 or HD4560). New designations, as well as all old designations, will be displayed throughout the catalog (i.e. MD3060 or 3000 HS) and model definitions will precede each section.
2. **The Transmission Assembly (Part) Number:** The actual part number of the unit will aid in determining the model number if unknown (i.e. 23043088 = MT643, 29535354 = HD4560 PR).
3. **The Serial Number:** Denotes the date on which the unit was produced and is important when a change in design occurred. This catalog either lists the serial number to distinguish product design changes, refers to a year break or both.

In the older applications, customers will find all three numbers on the nameplate (metal tag) attached to the transmission. The newer applications, however, display the model and serial number only. The assembly (part) number is replaced with the product group codes. The code refers to the actual transmission component group within Allison catalogs. More recently, the transmission group codes were removed from the metal tag. The remaining information on the tag is all that is required by Allison for identification over the Internet. See illustrations below.



Allison transmissions can be equipped with different options or variations beyond the basic model. Following is a list of the variables:

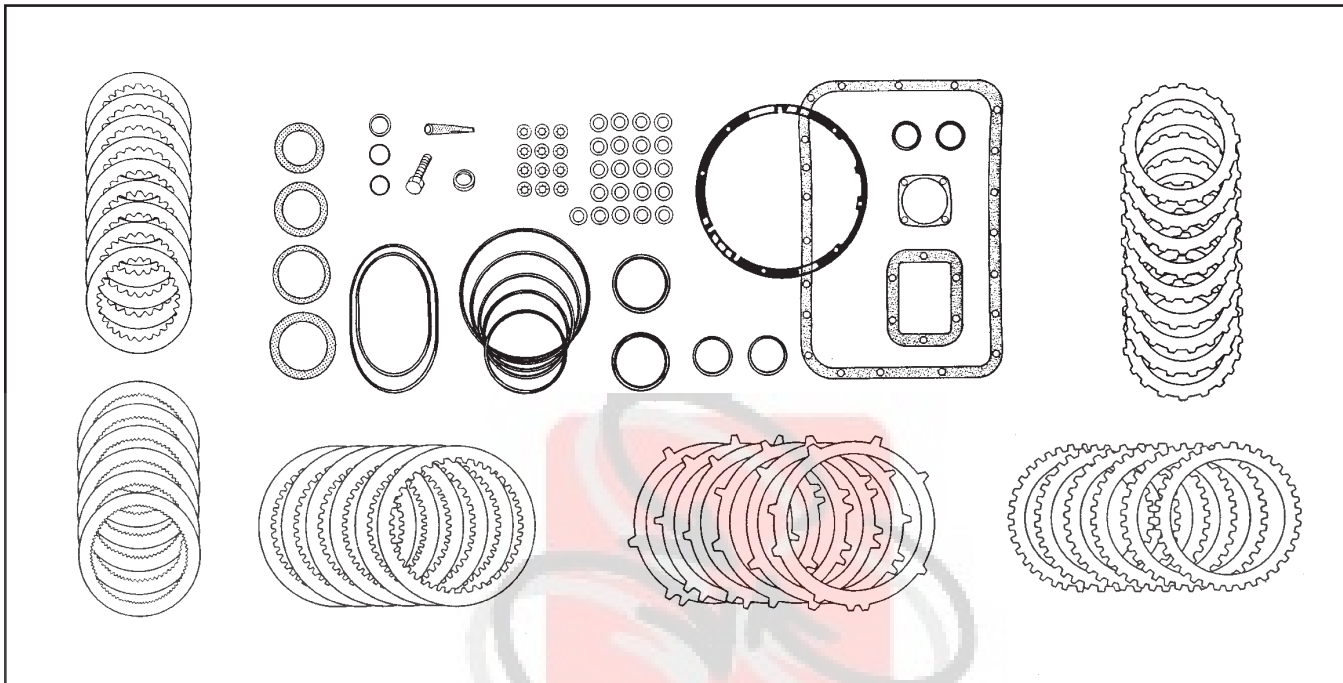
1. **Straight thru model:** The basic design transmission without add-ons. Potential differences include close or wide ratio planetary sets, output shaft/flange, parking brake configurations or torque capacity ranges.
2. **Additional speeds:** Can be available on a specific model of transmission either thru computer strategy or by adding more components (i.e. clutch packs, planetaries, etc.).
3. **PTO:** The power take off option which will affect the front end of the unit including the bell housing, case, pump, turbine shaft, ground sleeve and other components.
4. **Grade Retard:** A means of providing engine braking during coast down and is available in different designs (input or integral) depending on the model of transmission. Additional components such as solenoids or accumulator may also be required.
5. **Drop box:** A transfer case available on certain models. May also provide an additional gear to the basic transmission. The drop box is a separate assembly and has various external controls.
6. **Cooler attachments:** May vary from model to model. From minor fitting thread sizes to the addition of an entire housing containing the cooler itself. The cooling element may also be integral or external.

Due to sales volume, many of the items listed will be special order and dependent upon model availability. Customers should contact their Transtar representative with any questions or for further details on special orders.

**NOTE:** Early application (Lead Unit) items, which are unique, will not be available.

# ALLISON

## Transtar Rebuild Kit Program



There are three basic levels of Transtar's Allison Rebuild Kits:

1. **Overhaul Kit:** The basic reseal kit. Includes:
  - a. Paper and Rubber Components
  - b. Metal Clad Seals
  - c. Sealing Rings
2. **Master Kits Less Steels:** The overhaul kit plus the friction plates:
  - a. Paper and Rubber Components
  - b. Metal Clad Seals
  - c. Sealing Rings
  - d. Friction Plates
3. **Master Kits With Steels:** The overhaul kit plus the frictions and steel plates:
  - a. Paper and Rubber Components
  - b. Metal Clad Seals
  - c. Sealing Rings
  - d. Friction Plates
  - e. Steel Plates

## The Transtar Part Numbering System

The new Transtar part numbering system is very easy to use. The part number is based on a **prefix**, **base number**, and **suffix**, that, when broken down, will tell you almost everything you need to know about the part.

**Prefix Letters** refer to various part differences, such as the part's origin. Here are some examples of prefix letters and their meanings (although prefixes may differ between product groups):

A	Aftermarket New
D	OE New
R	Raybestos Friction
R	Remanufactured Part
S	Sonnax Part
T	Transgo Part
W	Wellman Friction

**The Base Number** is made up of two components, beginning with a two or three-digit number that tells you the Transmission Type. You can see the Transmission Type in the Table of Contents on page one of this catalog. For example, "121" is the Transmission Type for the LCT 1000. The Transmission Type is also located on the Illustration page, or exploded view, of each transmission.

The next three digits refer to the product group. The numbers "500" for example, tell you that the part is a pump. (For the complete list of product group numbers, please see the "Part Numbering Guide" on our website.)

**Suffix Letters** refer to part differences, such as its design level or material composition. Here are some examples of suffix letters and their meanings (although suffixes may differ between product groups):

F	Fiber Pan Gaskets
HD	Heavy Duty
HP	High Performance
K	Parts in Kit Form

## Pages

1. Illustration Number
2. Product Description
3. Quantity used in a standard rebuild
4. Year Coverage
5. Transtar Part Number
6. Reference Number (legacy Transtar Part Number)\*
7. Transmission Name
8. Transmission Type

\*please note that this is not the OE Number, as in previous catalogs

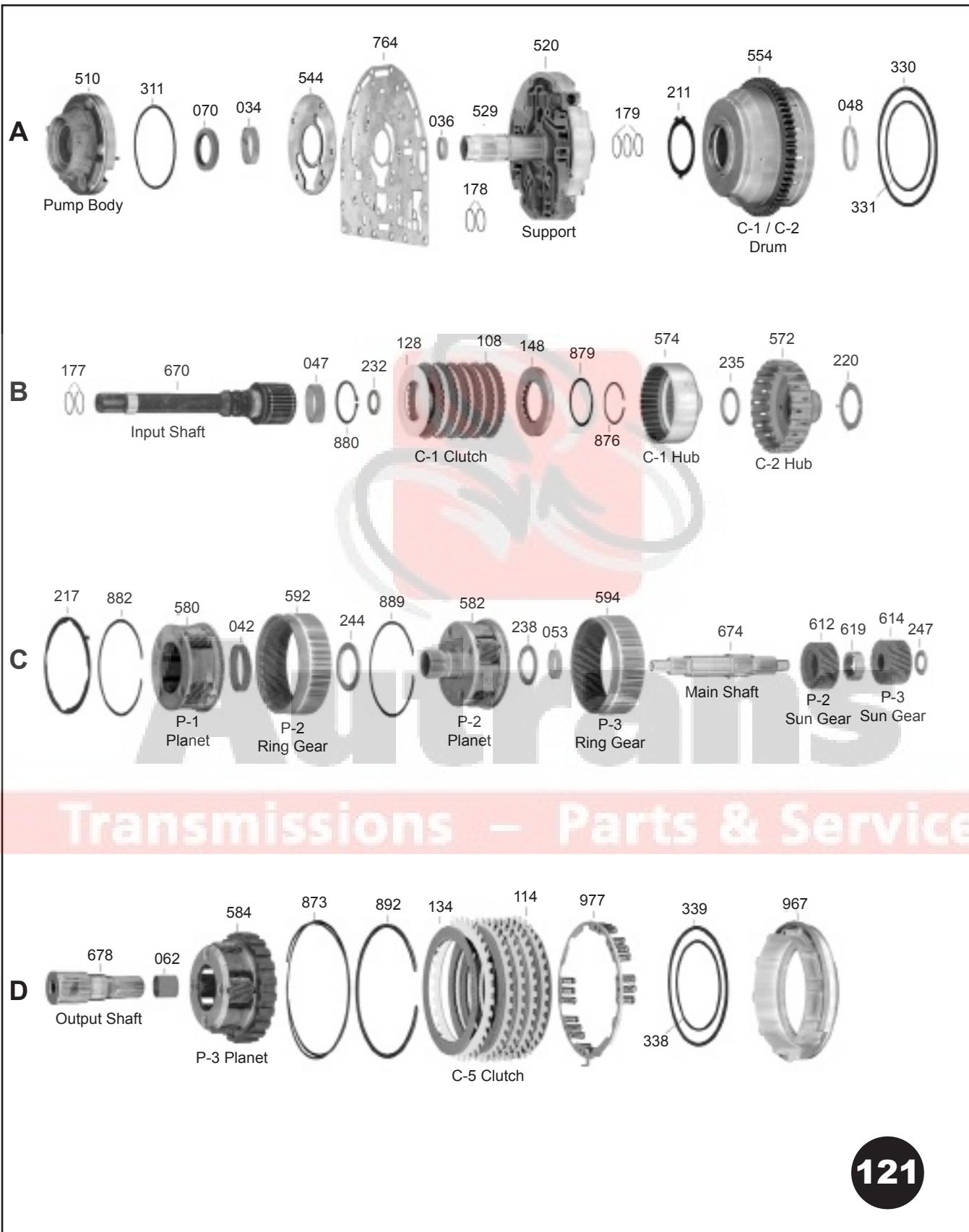
**ALLISON (M74)  
LCT 1000/2000/4000**

ILL.	DESCRIPTION	QTY	YEAR	PART NO.	REF. NO.
<b>MASTER OVERHAUL KITS (WITH STEEL)</b>					
006H	LCT 1000, 2000, 2400 (w/ Bonded Pistons)	1	00-05	121006A	K1500
006H	LCT 1000, 2000, 2400 (w/ Bonded Pistons)	1	06-Up	121006B	N/A
<b>LESS STEEL KIT</b>					
004H	LCT 1000, 2000, 2400 (w/ Bonded Pistons)	1	00-05	121002A	K1500-LS
004H	LCT 1000, 2000, 2400 (w/ Bonded Pistons)	1	06-Up	121002B	N/A
<b>OVERHAUL KITS (W/ RINGS &amp; SEALS)</b>					
002H	LCT 1000, 2000, 2400 (w/out Bonded Pistons)	1	00-05	121002	K15900
002H	LCT 1000, 2000, 2400 (w/ Bonded Pistons)	1	00-05	121002A	N/A
002H	LCT 1000, 2000, 2400 (w/out Bonded Pistons)	1	06-Up	121002D	N/A
002H	LCT 1000, 2000, 2400 (w/ Bonded Pistons)	1	06-Up	121002B	N/A
<b>FILTER KITS</b>					
011I	Filter Kit, Shallow Pan (Black)	1	00-Up	121011	FK15800
011I	Filter Kit, Deep Pan (White)	1	00-Up	121011A	FK15800A
<b>FILTERS</b>					
010I	Shallow Pan (Black)	1	00-Up	121010	15800
010I	Deep Pan (White)	1	00-Up	121010A	15800A
013H	Spin-on External	1	00-Up	121013	14802
<b>BUSHINGS</b>					
030H	Bushing Kit	1	00-Up	121030	K15905
034A	Front Pump Body	1	00-Up	121034	15005



# ALLISON LT 1000/2000/2400

# M74 - 5 Speed MW7 - 6 Speed



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# ALLISON LT 1000/2000/2400

# M74 - 5 Speed MW7 - 6 Speed

## LT 1000 Series™ (Light Duty)

### 1000 Series (w/ Parking Pawl)

Maximum GVW 19,850 lb, Maximum GCW 26,000 lb

### 2000 Series (w/o Parking Pawl)

Maximum GVW 30,000 lb, Maximum GCW 30,000 lb

### 2000 MH\*\* Series (w/o Parking Pawl)

Limited release in motor home applications only

Maximum GVW 30,000 lb, Maximum GCW 30,000 lb

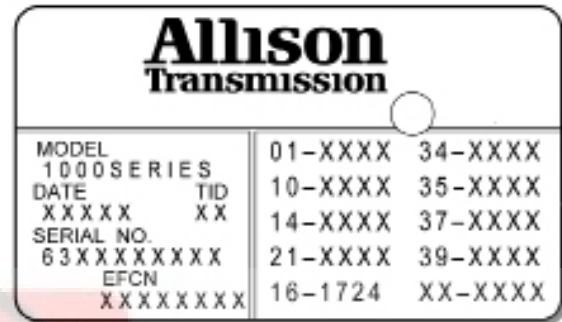
### 2400 Series (w/ Parking Pawl)

Maximum GVW 26,000 lb, Maximum GCW 26,000 lb

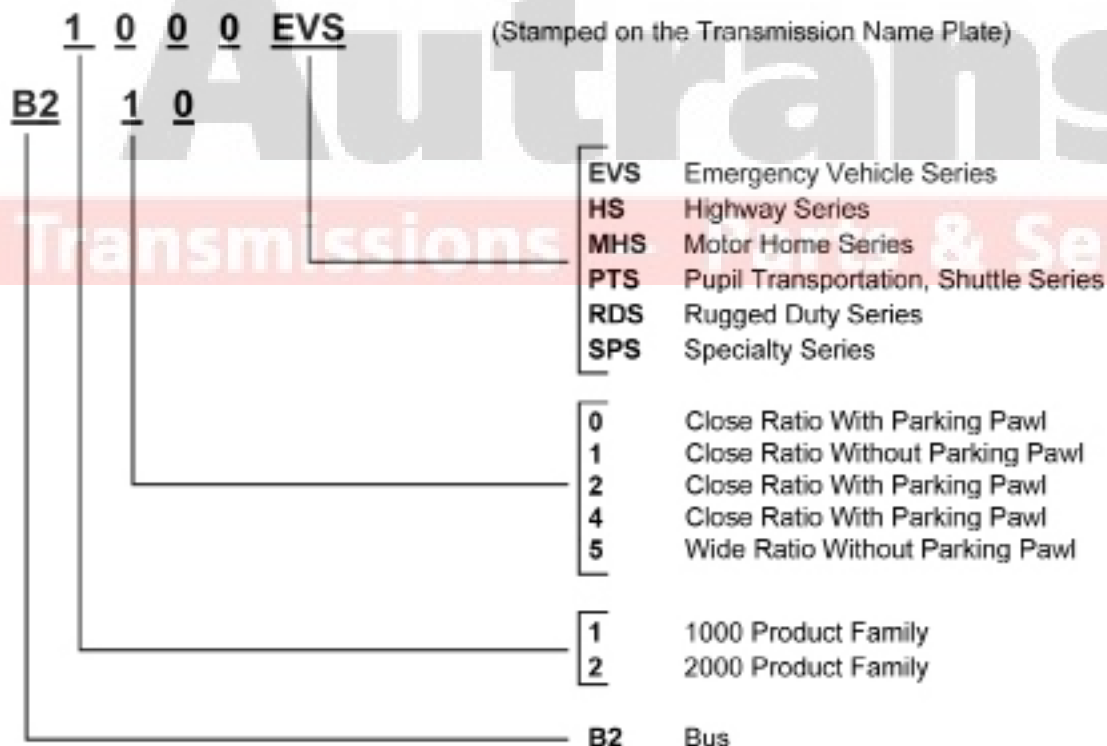
### B210, B220

Bus Designators – B Prefix (Available in North America)

\*\* Indicates models that are unique and are special order only.



## Model Designation Code

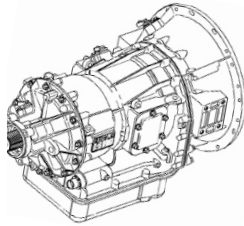


# M74 - 5 Speed

# MW7 - 6 Speed

# ALLISON

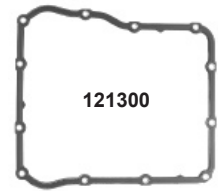
# LT 1000/2000/2400



121010



121010A



121300

**\*NOTE:** At the end of 2005, a major revision was made to Allison transmissions called Generation 4, commonly referred to as Gen4. This attribute allows the unit to have 6 speeds.

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>MASTER OVERHAUL KITS (WITH STEELS)</b>					
006H	w/ Bonded Pistons (except Gen4) .....	1	00-05	121006A	K1500
006H	w/ Bonded Pistons (Gen4) .....	1	06-Up	121006B	N/A
<b>LESS STEEL KITS</b>					
004H	w/ Bonded Pistons (except Gen4) .....	1	00-05	121004A	K1500-LS
004H	w/ Bonded Pistons (Gen4) .....	1	06-Up	121004B	N/A
<b>OVERHAUL KITS (W/ RINGS &amp; SEALS)</b>					
002H	w/o Bonded Pistons (except Gen4) .....	1	00-05	121002	N/A
002H	w/ Bonded Pistons (except Gen4) .....	1	00-05	121002A	K15900
002H	w/o Bonded Pistons (Gen4) .....	1	06-Up	121002D	N/A
002H	w/ Bonded Pistons (Gen4) .....	1	06-Up	121002B	N/A
<b>FILTER KITS</b>					
011I	Filter Kit, Shallow Pan (Black) .....	1	00-Up	121011	FK15800
011I	Filter Kit, Deep Pan (White) .....	1	00-Up	121011A	FK15800A
<b>FILTERS</b>					
010I	Shallow Pan (Black) .....	1	00-Up	121010	15800
010I	Deep Pan (White) .....	1	00-Up	121010A	15800A
013H	Spin-on External .....	1	00-Up	121013	14802
<b>BUSHINGS</b>					
030H	Bushing Kit .....	1	00-Up	121030	K15905
034A	Front Pump Body (2nd Design) .....	1	00-Up	121034	15005
036A	Ground Sleeve (Stator) Front .....	1	00-Up	121036	N/A
047B	Input Shaft .....	1	00-Up	121047	N/A
048A	Rotating (Input) Hub .....	1	00-Up	121048	N/A
042C	P1 Planet Carrier .....	1	00-Up	121042	N/A
053C	P2 Planet Carrier .....	1	00-Up	121053	N/A
062D	Output Shaft .....	1	00-Up	121047	N/A
<b>METAL CLAD SEALS</b>					
070A	Front (w/Dust Lip) .....	1	00-Up	121070A	15200
074G	Rear .....	1	00-Up	121074	15850
072	Manual Lever .....	1	00-Up	44072	38511
<b>FRICTION PLATES</b>					
<b>Prefix Key: No Prefix = Borg Warner, R = Raybestos, A = Aftermarket</b>					
108B	C1 Clutch - External Teeth .....	6	00-Up	121108	15100
100E	C2 Clutch .....	6	00-Up	121100	15101
104F	C3 Clutch .....	4	00-Up	121104	15102

# ALLISON

## LT 1000/2000/2400

# M74 - 5 Speed

## MW7 - 6 Speed

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>FRICTION PLATES (cont.)</b>					
104F	C4 Clutch .....	5	00-Up	121104	15102
114D	C5 Clutch .....	6	00-Up	121114	15103
N.I.	Power Pack, C1 Clutch (High Performance) .....	1	00-Up	121108HPK	N/A
N.I.	Power Pack, C2 Clutch (High Performance) .....	1	00-Up	121100HPK	N/A
N.I.	Power Pack, C3 Clutch (High Performance) .....	1	00-Up	121106HPK	N/A
N.I.	Power Pack, C4 Clutch (High Performance) .....	1	00-Up	121104HPK	N/A
N.I.	Z-Pak, C2.....	1	00-Up	121100K	K15101Z
<b>STEEL PLATES</b>					
128B	C1 Clutch - Internal Teeth .....	6	00-Up	121128	15105
120E	C2 Clutch .....	7	00-Up	121120	15106
126F	C3 Clutch (.098") .....	3	00-Up	121124	15107
124F	C4 Clutch (.098") .....	4	00-Up	121124	15107
134D	C5 Clutch (.078") .....	AR	00-Up	121134A	N/A
134D	C5 Clutch (.098") .....	6	00-Up	121134	15108
134D	C5 Clutch (.118") .....	AR	00-Up	121134B	N/A
<b>PRESSURE PLATES</b>					
Prefix Key: D = OEM, A = Aftermarket New, R = Remanufactured					
148B	C1 Backing Plate (5.50mm Thick) .....	AR	00-Up	121148	N/A
148B	C1 Backing Plate (5.94mm Thick) .....	AR	00-Up	121148A	N/A
148B	C1 Backing Plate (6.38mm Thick) .....	AR	00-Up	121148B	N/A
148B	C1 Backing Plate (6.83mm Thick) .....	AR	00-Up	121148C	N/A
148	C1 Backing Plate (7.28mm Thick) .....	AR	00-Up	121148D	N/A
146	C3 Backing Plate (w/ Thrust Pads) .....	AR	00-Up	121146	N/A
146	C3 Backing Plate Thrust Pads .....	3	00-Up	121146-1B	N/A
146	C3 Backing Plate Thrust Pad Rivets .....	6	00-Up	121146-1A	N/A
147	C3 Apply Plate (.125") .....	1	00-Up	121124A	N/A
147	C3 Apply Spring Sets .....	3	00-Up	121147-2	N/A
144	C4 Backing Plate .....	1	00-Up	121147	N/A
145	C4 Apply Plate (.125") .....	1	00-Up	121124A	N/A
145	C4 Apply Spring Sets .....	3	00-Up	121147-2	N/A
154	C5 Backing Plate .....	1	00-Up	121154	N/A
140	P1 Sun Gear Flange .....	1	00-Up	121140	N/A
<b>VALVE BODY RECALIBRATION KITS</b>					
165H	Shift Kit®, Standard, HD and Racing (5 Speeds) (Transgo®) .....	1	01-05	T121165	K15908
165H	Junior Shift Kit® (Transgo®) (6 Speeds - Gen4) .....	1	06-Up	T121167	K15908B
<b>SEALING RINGS</b>					
175H	Sealing Ring Kit .....	1	00-Up	121175	N/A
<b>THRUST WASHERS &amp; BEARINGS</b>					
211A	Washer, Pump Support (Peek Design) .....	1	00-Up	121211	N/A
220B	Washer, C2 Hub to P1 Sun Gear (1.6mm) (1st Design) .....	1	2000	121220	N/A
220B	Washer, C2 Hub to P1 Sun Gear (2.6mm) (3rd Design) .....	1	01-Up	121220B	N/A
217C	Washer, C1-C2 Ring Gear (Peek Design) .....	1	00-Up	121217	N/A
232B	Bearing, Turbine Shaft to C1 Hub (44mm OD) (1st Design) .....	1	00-04	121232	N/A
232B	Bearing, Turbine Shaft to C1 Hub (54mm OD) (2nd Design) .....	1	05-Up	121232A	N/A
235B	Bearing, C1 Hub to C2 Hub .....	1	00-Up	121235	N/A
216F	Bearing, P1 Sun Gear to P1 Planet .....	1	00-Up	121216	N/A
244C	Bearing, P1 Planet to P2 Planet .....	1	00-Up	121244	N/A
238C	Bearing, P2 Planet to P2 Sun Gear (52mm ID) (1st Design) .....	1	00-06	121216	N/A
238C	Bearing, P2 Planet to P2 Sun Gear (48mm ID) (2nd Design) .....	1	07-Up	121238	N/A
247C	Bearing, P3 Sun Gear to P3 Planet (44mm OD) (1st Design) .....	1	00-02	121232	N/A
247C	Bearing, P3 Sun Gear to P3 Planet (54mm OD) (2nd Design) .....	1	02-Up	121232A	N/A



# M74 - 5 Speed

## MW7 - 6 Speed

# ALLISON

## LT 1000/2000/2400

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>GASKETS &amp; O-RINGS</b>					
300I	Gasket, Pan (Bonded Rubber) .....	1	00-Up	121300	13200R
305I	Gasket, Extension Housing .....	1	00-Up	121305	N/A
309	Seal, Bell Bolt .....	1	00-Up	121309	N/A
311A	O-Ring, Pump .....	1	00-Up	121311	N/A
318	Gasket, Bell Housing Plate (Front) (can use 121318B).....	1	00-Up	121318	N/A
318	Gasket, Bell Housing Plate (Front) (2nd Design, Retros 00-Up) .....	1	00-Up	121318B	N/A
318	Gasket, Bell Housing Plate (Rear).....	1	00-Up	121318A	N/A
319	Gasket, PTO Cover.....	2	00-Up	131319	N/A
323G	Gasket, Cooler Manifold .....	1	00-Up	121323	N/A
<b>TECHNICAL MANUALS</b>					
400H	Tech Manual .....	1	00-Up	121400	15Y01
400H	Service Manual (OEM) .....	1	00-Up	121400M	TM-1000M
400H	Parts Manual (OEM) .....	1	00-Up	121400P	TM-1000P
400H	Trouble Shooting Manual (OEM) (except Gen4) .....	1	00-05	121400T	TM-1000T
400H	Trouble Shooting Manual (OEM) (Gen4).....	1	06-Up	121400TA	N/A
<b>ELECTRICAL COMPONENTS</b>					
410H	Switch, Neutral Start/Backup (MLPS) 2 Connector .....	1	01-E03	121410	15A-199
410H	Switch, Neutral Start/Backup (MLPS) 1 Connector .....	1	L03-05	121410A	15A-199A
410H	Switch, Internal Mode Switch (MLPS) 1 Connector (Gen4).....	1	06-Up	121410B	15A-199B
411H	Switch Assembly, Pressure Manifold (6 Switch) .....	1	00-05	14411A	15D-176
411H	Switch Assembly, Pressure Manifold (4 Switch)(Replaces the 6 Switch) .....	1	00-Up	121411A	N/A
418H	Solenoid, Trim "A" .....	1	00-05	121418	5A-198
418H	Solenoid, "PCS1" (Gen4).....	1	06-Up	121418B	N/A
418H	Solenoid, Trim "B" .....	1	00-05	121418A	5A-199
418H	Solenoid, "PCS2" (Gen4).....	1	06-Up	121418C	N/A
418H	Solenoid, "F" Trim (PWM).....	1	00-05	74418E	5A-187
425H	Solenoid, "PCS" (TCC) (Gen4).....	1	06-Up	121425	N/A
421H	Solenoid, Shift ("C", "D" & "E").....	3	00-Up	74418EA	5A-192
421H	Solenoid, Modulated Pressure Control ("G") .....	1	L03-Up	74418EA	5A-192
438H	Sensor, Input, Output & Turbine .....	3	00-Up	121438	20A-199
446H	Wiring Harness Assembly (Internal) 6 Solenoids.....	1	01-E03	121446	35A-199
446H	Wiring Harness Assembly (Internal) 7 Solenoids.....	1	L03-05	121446A	35A-199A
446H	Wiring Harness Assembly (Internal Mode) (Gen4 except GM).....	1	06-Up	121446B	N/A
446H	Wiring Harness Assembly (Internal Mode) (Gen4 GM Applications) ....	1	06-Up	121446C	N/A
446H	Repair Kit, Park/Neutral Switch Harness .....	1	00-05	74446K	35A-114K
<b>HARD PARTS</b>					
Prefix Key: D = OEM, A = Aftermarket New, R = Remanufactured					
<b>PUMPS</b>					
510A	Pump Body Kit (Includes Body, Gears, & Plate) (22T Design) .....	1	00-Up	121510K	15920
510A	Pump Body w/Gears (31T Design) .....	1	00-05	121510A	N/A
510A	Pump Body w/Gears (22T Design) (Gen4).....	1	06-Up	121510C	N/A
520A	Front Support (Stator) Assembly (Incl. Ground Sleeve) (1st Design)...	1	00-E04	121520AK	N/A
520A	Front Support (Stator) Assembly (Incl. Ground Sleeve) (2nd Design)...	1	L04-05	121520BK	N/A
520A	Front Support (Stator) Assembly (Incl. Ground Sleeve) (3rd Design) (Gen4)	1	06-Up	121520CK	N/A
529A	Ground Sleeve .....	1	00-Up	121529	N/A
<b>PUMP COMPONENTS</b>					
530	Pump Gears (31T Design).....	1	00-05	121530A	N/A
530	Pump Gears (22T Design) (Gen4).....	1	06-Up	121530C	N/A
544A	Pump Plate (2nd Design).....	1	00-05	121544	15922
544A	Pump Plate (3rd Design) (Gen4) .....	1	06-Up	121544C	N/A

# ALLISON

## LT 1000/2000/2400

# M74 - 5 Speed

## MW7 - 6 Speed

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>PUMP COMPONENTS (cont.)</b>					
764A	Separator Plate, Bell Housing to Case (2nd Design).....	1	00-Up	121764	N/A
507H	Pump Kit, Lock-up Boost Kit.....	1	00-03	121507K	K15888
507H	Pump Kit, Lock-up Boost Kit.....	1	04-07	121507AK	K15888A
507H	Springs, Lube Reg. (Converter Relief).....	1	00-03	121507A-3	K15882
<b>DRUMS &amp; CLUTCH HUBS</b>					
554A	Rotating Drum (C1-C2) (w/ PTO Gear).....	1	00-05	121554	15950
554A	Rotating Drum (C1-C2) (w/ Sensor Gear) .....	1	00-05	121554A	N/A
554A	Rotating Drum (C1-C2) (w/ PTO Gear) (Gen4) .....	1	06-Up	121554B	N/A
554A	Rotating Drum (C1-C2) (w/ Sensor Gear) (Gen4) .....	1	06-Up	121554C	N/A
574B	Hub, C1 Clutch (w/ T1 Bearing Step).....	1	00-04	121574	N/A
574B	Hub, C1 Clutch (w/o T1 Bearing Step).....	1	05-Up	121574A	N/A
572B	Hub, C2 Clutch (Narrow Washer Slots) .....	1	00-03	121572	15955
572B	Hub, C2 Clutch (Wide Washer Slots).....	1	03-Up	121572A	N/A
<b>PLANETS &amp; RING GEARS</b>					
<b>P1</b>					
580C	Planet w/ Gears (except Hi Helix) .....	1	00-Up	121580	15962
580C	Planet w/ Gears (Hi Helix) .....	1	06-Up	121580B	N/A
580C	Planet Housing Only (except Hi Helix).....	1	00-Up	121580-5	N/A
580C	Planet Gear Set (Contains 4 Gears) (except Hi Helix) .....	4	00-Up	121580-2K	N/A
590F	Ring Gear (2.150" Wide) (except Hi Helix) .....	1	00-05	121590	N/A
<b>P2</b>					
582C	Planet w/ Gears (52mm ID T5 Bearing Design) (except Hi Helix) .....	1	00-06	121582	N/A
582C	Planet w/ Gears (48mm ID T5 Bearing Design) (except Hi Helix) .....	1	07-Up	121582A	N/A
582C	Planet w/ Gears (48mm ID T5 Bearing Design) (Hi Helix).....	1	06-Up	121582B	N/A
582C	Planet Housing Only (52mm ID T5 Bearing Design) (except Hi Helix) .....	1	00-06	121582-5	N/A
582C	Planet Housing Only (48mm ID T5 Bearing Design) (except Hi Helix) .....	1	07-Up	121582A-5	N/A
582C	Planet Gear Set (Contains 4 Gears) (except Hi Helix) .....	4	00-Up	121582-2K	N/A
582C	Planet Gear Set (Contains 4 Gears) (Hi Helix) .....	4	06-Up	121582-2BK	N/A
592C	Ring Gear (w/ .080" Snap Ring Groove) (except Hi Helix) .....	1	00-05	121592	N/A
592C	Ring Gear (w/ .130" Snap Ring Groove) (except Hi Helix) .....	1	06-Up	121592A	N/A
592C	Ring Gear (w/ .130" Snap Ring Groove) (Hi Helix).....	1	06-Up	121592B	N/A
<b>P3</b>					
584D	Planet w/ Gears (1000 w/ 44mm OD T6 Brg) (w/ Park Gear) (except Hi Helix) .....	1	00-02	121584	15966
584D	Planet w/ Gears (1000 w/ 54mm OD T6 Brg) (w/ Park Gear) (except Hi Helix) .....	1	02-Up	121584A	N/A
584D	Planet w/ Gears (1000 w/ 54mm OD T6 Brg) (Hi Helix) .....	1	06-Up	121584B	N/A
582C	Planet Gear Set (1000) (Contains 4 Gears) (except Hi Helix) .....	4	00-Up	121584-2AK	N/A
582C	Planet Gear Set (1000) (Contains 4 Gears) (Hi Helix).....	4	06-Up	121584-2BK	N/A
584D	Planet w/ Gears (2000 w/ 44mm OD T6 Brg) (w/o Park Gear).....	1	00-02	121584E	N/A
584D	Planet w/ Gears (2000 w/ 54mm OD T6 Brg) (w/o Park Gear).....	1	02-Up	121584F	N/A
582C	Planet Gear Set (2000) (Contains 4 Gears) .....	4	00-Up	121584-2EK	N/A
584D	Planet w/ Gears (2400 w/ 44mm OD T6 Brg) (w/ Park Gear).....	1	00-02	121584J	N/A
584D	Planet w/ Gears (2400 w/ 54mm OD T6 Brg) (w/ Park Gear).....	1	02-Up	121584K	N/A
582C	Planet Gear Set (2400) (Contains 4 Gears) .....	4	00-Up	121584-2EK	N/A
594C	Ring Gear (w/ .080" Snap Ring Groove) (except Hi Helix) .....	1	00-05	121594	N/A
594C	Ring Gear (w/ .130" Snap Ring Groove) (except Hi Helix) .....	1	06-Up	121594A	N/A
594C	Ring Gear (w/ .130" Snap Ring Groove) (Hi Helix).....	1	06-Up	121594B	N/A

# M74 - 5 Speed

## MW7 - 6 Speed

# ALLISON

## LT 1000/2000/2400

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>SUN GEARS</b>					
<b>P1</b>					
610F	Sun Gear (w/o Washer Recess) (1st Design).....	1	00-01	121610	N/A
610F	Sun Gear (w/ Washer Recess) (3rd Design) .....	1	01-Up	121610B	N/A
140F	Sun Gear Flange (P1).....	1	00-Up	121140	N/A
<b>P2</b>					
612C	Sun Gear (41mm Wide w/ Raised Spacer Surface) (1st Design).....	1	00-04	121612	N/A
612C	Sun Gear (38mm Wide w/ Flat Spacer Surface) (2nd Design).....	1	04-06	121612A	N/A
612C	Sun Gear (w/ Reduced 52mm Bearing ID) (except Hi Helix).....	1	07-Up	121612AA	N/A
612C	Sun Gear (w/ Reduced 52mm Bearing ID) (Hi Helix) .....	1	06-Up	121612B	N/A
<b>P3</b>					
614C	Sun Gear (1000 Large Diameter w/ 44mm Bearing Bore).....	1	00-02	121614	N/A
614C	Sun Gear (1000 Large Diameter w/ 54mm Bearing Bore) (except Hi Helix) ...	1	02-Up	121614A	N/A
614C	Sun Gear (1000 Large Diameter w/ 54mm Bearing Bore) (Hi Helix)....	1	06-Up	121614B	N/A
614C	Sun Gear (2000 Small Diameter w/ 44mm Bearing Bore).....	1	00-02	121614E	N/A
614C	Sun Gear (2000 Small Diameter w/ 54mm Bearing Bore).....	1	02-Up	121614F	N/A
<b>SHAFTS</b>					
529A	Ground Sleeve .....	1	00-Up	121529	N/A
670B	Turbine (Input) Shaft (w/ 44mm Diameter T1 Bearing).....	1	00-04	121670	15930
670B	Turbine (Input) Shaft (w/ 54mm Diameter T1 Bearing).....	1	05-Up	121670A	N/A
674C	Main Shaft.....	1	00-Up	121674	15970
678D	Output Shaft (2wd).....	1	00-Up	121678	15972
678D	Output Shaft (4wd).....	1	00-Up	121678A	15972B
<b>VALVE BODIES</b>					
740H	Valve Body (Premium) .....	1	00-03	121740-1	P15990
740H	Valve Body (Premium) .....	1	04-05	121740-2	P15990A
740H	Valve Body (Premium) (Gen4).....	1	06-Up	121740-3	N/A
741H	Springs & Valves, A & B Trim (Requires T-37000-TL12).....	1	00-Up	121741WK	N/A
741H	Spring, E Shift Valve (Recommended to use 37000-02BST) .....	1	00-Up	121741S-3	15884
741H	Sleeve, F Trim Valve .....	1	00-Up	121741C-2	15886
741H	Valve, Backfill.....	1	00-Up	121741H-1	15888
<b>CASES &amp; HOUSINGS</b>					
750G	Bell Housing, Direct Mount (GM Pickups) .....	1	00-Up	121750	N/A
770G	Extension Housing (4wd) (1000 GM Models).....	1	00-Up	121770	N/A
<b>PISTONS &amp; COMPONENTS</b>					
964E	C1 Clutch Piston .....	1	00-05	121964A	N/A
964E	C1 Clutch Piston (Full Springs) (Gen4) .....	1	06-Up	121964AA	N/A
964E	C1 Balance Piston (Bonded Rubber).....	1	00-05	121964B	15530
964E	C1 Balance Piston (Bonded Rubber) (Gen4) .....	1	06-Up	121964BA	N/A
974E	C1 Clutch Return Spring .....	1	00-05	121974	N/A
974E	C1 Clutch Return Spring (Full Springs) (Gen4) .....	1	06-Up	121974A	N/A
955E	C1 Piston Housing .....	1	00-05	121955	N/A
955E	C1 Piston Housing (Gen4).....	1	06-Up	121955A	N/A
960E	C2 Clutch Piston (2nd Design) .....	1	00-05	121960	N/A
960E	C2 Clutch Piston (Gen4).....	1	06-Up	121960A	N/A
960E	C2 Balance Piston (Bonded Rubber).....	1	00-05	121960B	15531
971E	C2 Clutch Return Spring .....	1	00-05	121971	N/A
971E	C2 Clutch Return Spring (Gen4).....	1	06-Up	121971A	N/A

[illegible]



# We have all your Allison Transmission needs:

AT540, 543, 545

MT/B 640, 643, 644, 650, 654

MD3060/3560/B300/B400

HT740, 750, 754



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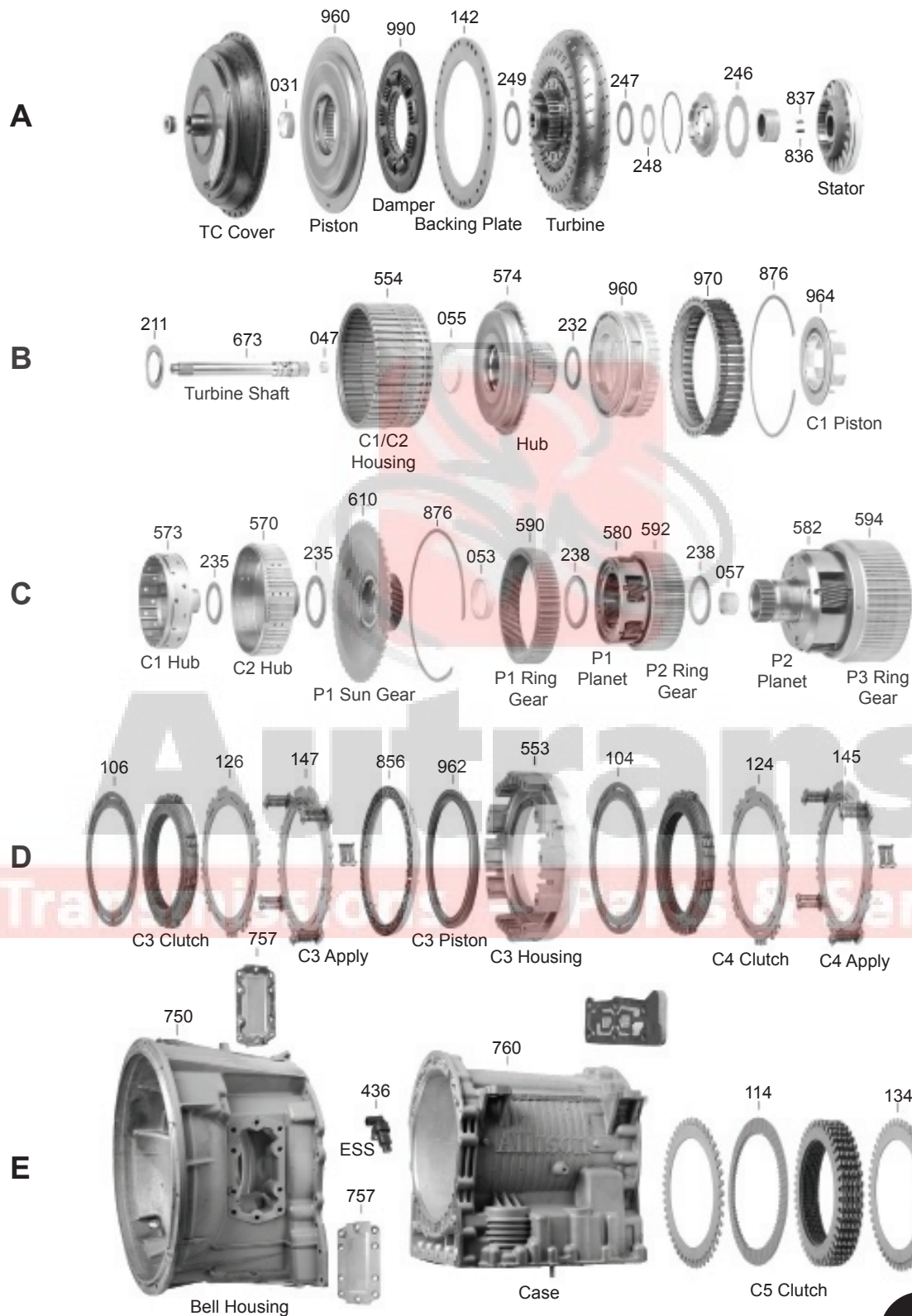
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# ALLISON MD 3000 SERIES

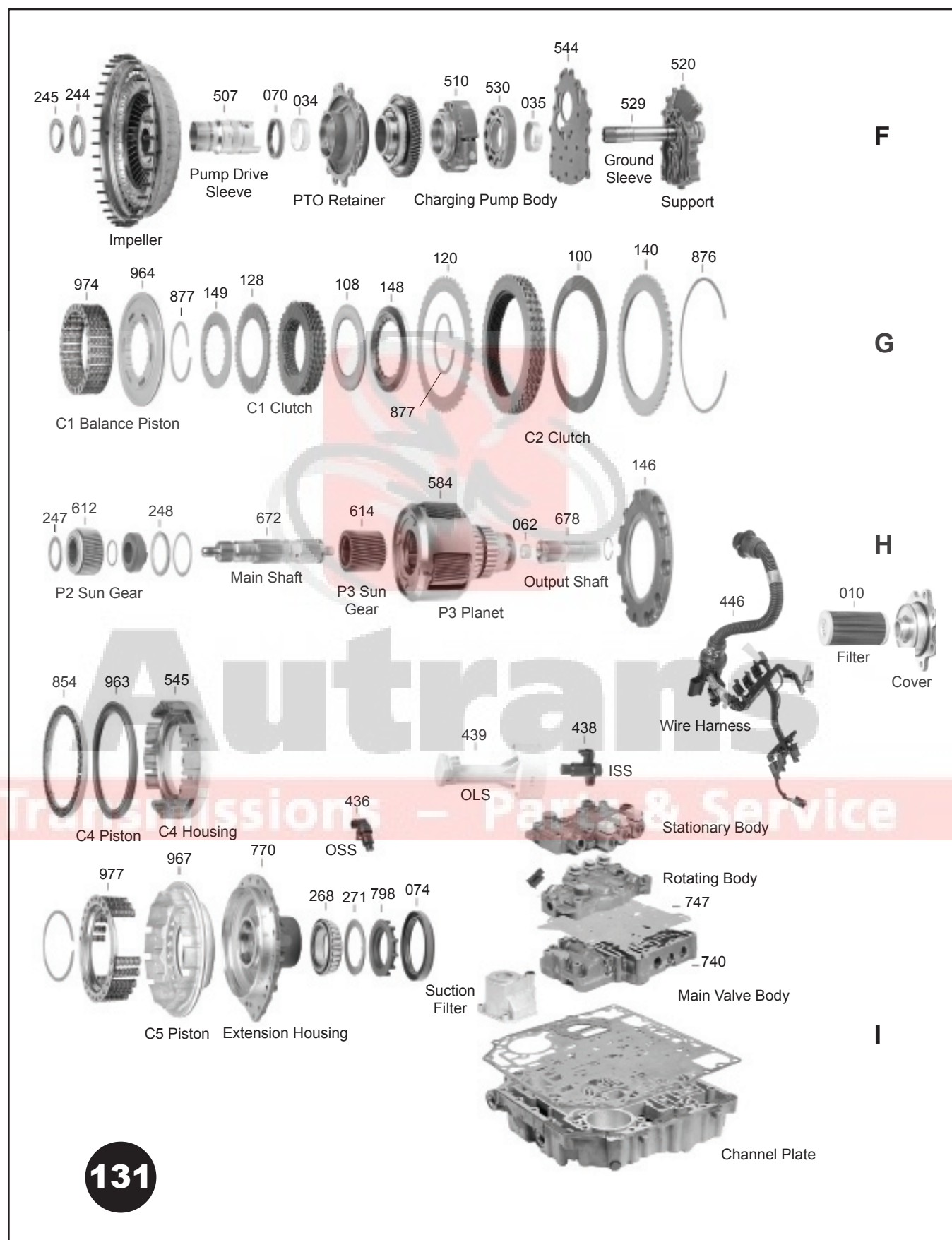
## 6 SPEED



**131**

# 6 SPEED

# ALLISON MD 3000 SERIES





# ALLISON

## MD 3000 SERIES

## 6 SPEED

### MD 3000 Series™ (Medium Duty)

New Designation – No Prefix (Close Ratio)  
3000MH, 3000TRV, 3000EVS, 3000HS, 3000RDS,  
3000PTS, 3200SP\*\*, 3200TRV

New Designation – No Prefix (Wide Ratio)  
3500EVS, 3500RDS, 3500SP\*\*, 3700SP\*\*

Old Designation – MD Prefix (Close Ratio)  
MD 3060, 3060P, 3060R, 3060PR, 3066, 3066P, 3066R, 3066PR

Old Designation – MD Prefix (Wide Ratio)  
MD 3560, 3560P, 3560R, 3560PR, MD 3070PT\*\*

### B300, B400

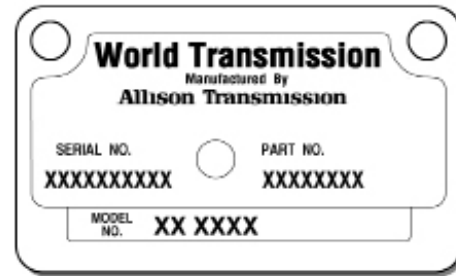
Bus Designators – B Prefix (Available in North America)  
B300, 300P, 300R\*\*, 300PR\*\*, B400, 400P, 400R\*\*, 400PR\*\*

### T200\*\*, T300\*\*

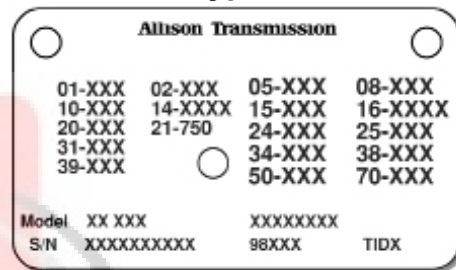
Bus Designators – T Prefix (Not Available in North America)  
T250\*\*, 255\*\*, 260\*\*, 265\*\*, 270\*\*, 280\*\*  
T310\*\*, 325\*\*, 350\*\*, 375\*\*

\*\* Indicates models that are unique and are special order only.

Type 1



Type 2



### Model Designation Code

**MD 3 0 6 0 EVS**

(Stamped on the Transmission Name Plate)

**B 3 0 0 P**

<b>RM</b>	Remanufactured transmission
<b>EVS</b>	Emergency Vehicle Series
<b>HS</b>	Highway Series
<b>MH</b>	Motor Home Series
<b>PTS</b>	Pupil Transportation, Shuttle Series
<b>RDS</b>	Rugged Duty Series
<b>SP</b>	Specialty Series
<b>TRV</b>	Truck Recreational Vehicle Series
<b>P</b>	PTO Provision
<b>R</b>	Retarder
<b>T</b>	Transfer Case
<b>0</b>	Major Revisions
<b>6</b>	Number of Forward Ranges
<b>0</b>	Close Ratio
<b>2</b>	Close Ratio
<b>5</b>	Wide Ratio
<b>7</b>	Wide Ratio Coverage (WRC) 7 Speed
<b>3</b>	Transmission Series (3, 200, 300, 400)
<b>MD</b>	Planetary Gear-type Automatic Trans.
<b>B</b>	Bus (Available in North America)
<b>T</b>	Bus (Not Available in North America)



**6 SPEED****ALLISON  
MD 3000 SERIES**

131010



131010A

**\*NOTE: At the end of 2005, a major revision was made to Allison transmissions called Generation 4, commonly referred to as Gen4.**

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>MASTER OVERHAUL KITS (WITH STEELS)</b>					
006	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (except Gen4).....	1	92-05	131006	N/A
006	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (Gen4) .....	1	06-Up	131006B	N/A
<b>LESS STEEL KITS</b>					
004	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (except Gen4).....	1	92-05	131004	N/A
004	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (Gen4) .....	1	06-Up	131004B	N/A
<b>OVERHAUL KITS (W/ RINGS &amp; SEALS)</b>					
002	w/o VB Sub Kit, w /C3-C4 Bonded Pistons (except Gen4).....	1	92-05	131002	N/A
002	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (except Gen4).....	1	92-05	131002A	N/A
002	w/o VB Sub Kit, w/ C3-C4 Bonded Pistons (Gen4) .....	1	06-Up	131002C	N/A
002	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (Gen4) .....	1	06-Up	131002B	N/A
<b>VALVE BODY SUBKITS</b>					
001	Includes Upper & Lower VB Gaskets .....	AR	92-Up	131001	K14900-2
<b>FILTERS AND FILTER KITS</b>					
010H	4" Cartridge (Includes 2 filters, gaskets & seals) .....	1	92-Up	131010	14800
010H	6" Cartridge (Includes 2 filters, gaskets & seals) .....	1	92-Up	131010A	14800A
010I	Suction Filter Kit w/Housing (Gen4 Design-Retros All).....	1	92-Up	131010D	14803
<b>BUSHINGS</b>					
030	Bushing Kit (Includes 2nd Design Pump Gear Bushing) .....	1	92-Up	131030	K14902
031A	Converter Cover .....	1	92-Up	131031	N/A
034F	PTO Gear Support / Pump Body .....	1	92-Up	131034	N/A
035F	Pump Gear (1st Design) .....	1	92-94	131035	N/A
035F	Pump Gear (2nd Design).....	1	94-E04	131035A	N/A
035F	Pump Gear (3rd Design).....	1	L04-Up	131035B	N/A
047B	Input Shaft .....	1	92-Up	131047	N/A
055B	Rotating (Input) Hub .....	1	92-Up	131055	N/A
053C	P1 Sun Gear .....	1	92-Up	131053	N/A
057C	P2 Planet Carrier .....	1	92-Up	131057	N/A
062H	Output Shaft.....	1	92-Up	131047	N/A
<b>METAL CLAD SEALS</b>					
070F	PTO Support / Pump (Narrow Single Lip Design).....	1	92-Up	131070	14200
070F	PTO Support / Pump (Wide Double Lip Design).....	1	92-Up	131070A	N/A
074I	Output (Extension Housing).....	1	92-Up	131074	14850

# ALLISON

## MD 3000 SERIES

## 6 SPEED

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>FRICTION PLATES</b>					
Prefix Key: J = Dynax, R = Raybestos, W = Wellman					
108G	C1 Clutch (External Teeth).....	6	92-Up	131108	14100
100G	C2 Clutch (9.957" OD).....	6	92-Up	131100	14102
100G	C2 Clutch (10.535" OD) (Retros 92-Up) .....	6	92-Up	131100A	N/A
106D	C3 Clutch .....	5	92-Up	131104	14104
104D	C4 Clutch .....	5	92-Up	131104	14104
114E	C5 Clutch .....	7	92-Up	131114	14106
<b>STEEL PLATES</b>					
128G	C1 Clutch (Internal Teeth).....	5	92-Up	131128	14101
120G	C2 Clutch .....	6	92-Up	131120	14103
126D	C3 Clutch (.100") (except Gen4).....	4	92-05	131124	14105
126D	C3 Clutch (.130") (Gen4) .....	5	06-Up	131124B	N/A
124D	C4 Clutch (.100") (except Gen4).....	5	92-05	131124	14105
124D	C4 Clutch (.130") (Gen4) .....	6	06-Up	131124B	N/A
134E	C5 Clutch .....	8	92-Up	131134	14107
<b>PRESSURE PLATES</b>					
Prefix Key: D = OEM, A = Aftermarket New, R = Remanufactured					
148G	C1 Backing (8mm Thick) (2nd Design).....	1	92-Up	131142	N/A
149G	C1 Apply (4mm Thick) (2nd Design).....	1	92-Up	131149	N/A
140G	C2 Backing .....	1	92-Up	131140	N/A
146H	C3 Backing (w/ Thrust Pads) (except Gen4) .....	1	92-05	131146	N/A
147D	C3 Apply (w/ Spring Sets) (except Gen4).....	1	92-05	131147	N/A
147D	C3 Apply Spring Sets (except Gen4).....	4	92-05	131147-2	N/A
856D	C3 Cushion Spring w/ Retainer (except Gen4).....	1	92-05	131856	N/A
145D	C4 Apply (w/ Spring Sets) (except Gen4).....	1	92-05	131147	N/A
145D	C4 Apply Spring Sets (except Gen4).....	4	92-05	131147-2	N/A
854H	C4 Cushion Spring w/ Retainer (except Gen4).....	1	92-05	131856	N/A
<b>SEALING RINGS</b>					
175	Sealing Ring Kit .....	1	92-Up	1311175	K14901
<b>THRUST BEARINGS</b>					
201	Thrust Bearing Kit .....	1	92-Up	131201	N/A
211B	Pump Support to Rotating Hub.....	1	92-Up	131211	N/A
232B	Rotating Hub to C1 Hub.....	1	92-Up	131232	N/A
235C	C2 Hub (Front & Rear).....	2	92-Up	131232	N/A
238C	P1 Planet (Front & Rear) .....	2	92-Up	131232	N/A
247H	P2 Sun Gear (Front) (Close Ratio) .....	1	92-Up	131247	N/A
247H	P2 Sun Gear (Front) (Wide Ratio) .....	1	92-Up	131247A	N/A
248H	P2 Sun Gear (Rear) (Close Ratio) (2nd Design) .....	1	92-Up	131248	N/A
248H	P2 Sun Gear (Rear) (Wide Ratio) (2nd Design) .....	1	92-Up	131248A	N/A
<b>GASKETS &amp; O-RINGS</b>					
310	Gasket, Bell Housing .....	1	92-Up	131310	N/A
305	Gasket, Extension Housing .....	1	92-Up	131305	N/A
319	Gasket, PTO Cover.....	2	92-Up	131319	N/A
320	Gasket, Valve Body (Pan) (Upper).....	1	92-Up	131320	13472
321	Gasket, Valve Body (Pan) (Lower).....	1	92-Up	131321A	13473
326	Gasket, Filter Cover .....	2	92-Up	131326	N/A
326	O-Ring, Filter Cover (Small) (2nd Design).....	1	92-Up	131326A	N/A
326	O-Ring, Filter Cover (Large) (2nd Design).....	1	92-Up	131326B	N/A
071	Seal, Case to Valve Body Face .....	1	92-Up	131071	13376

**6 SPEED****ALLISON  
MD 3000 SERIES**

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>TECHNICAL MANUALS</b>					
400	Service Manual (OEM) .....	1	92-Up	131400M	TM-3060M
400	Parts Manual (OEM) .....	1	92-Up	131400P	TM-3060P
400	Trouble Shooting Manual (HD & MD) (TID2) .....	1	92-05	131400T	TM-3060T
400	Trouble Shooting Manual (HD & MD) (TID3) .....	1	92-05	131400TA	TM-3061T
400	Trouble Shooting Manual (HD & MD) (Gen4) .....	1	06-Up	131400TB	N/A
<b>ELECTRICAL COMPONENTS</b>					
<b>except Gen4</b>					
420	Solenoid Group (7 Solenoids) .....	1	92-05	131420K	31A-436
421	Solenoid, "G" (Main Body & C6 Interlock) .....	2	92-05	131421	5A-436
421	Solenoid, C1, C2 (Rotating Body) .....	2	92-05	131421A	5A-436A
421	Solenoid, C3, C4, C5, Lockup (Stationary Body) .....	4	92-05	131421B	5A-436B
421	Solenoid, C6 (Clutch Regulator) .....	1	92-05	131421E	5A-436E
415	Switch, Valve Body Pressure .....	1	92-05	131415	15A-437
439H	Sensor, Oil Level (3 Terminal Design) .....	1	00-05	131439	N/A
436E	Sensor, ESS (Bell Housing) .....	1	92-05	131436	20A-436
438H	Sensor, ISS (Valve Body) .....	1	92-05	131438	N/A
436H	Sensor, OSS (Extension Housing) (Non Grade Retard) .....	1	92-05	131436	20A-436
446H	Wire Harness, w/ Oil Level Sensor (TID1) .....	1	92-05	131446	N/A
446H	Wire Harness, w/ Oil Level Sensor (TID2) .....	1	92-05	131446A	N/A
446H	Wire Harness, w/ Oil Level Sensor (TID3) .....	1	92-05	131446B	N/A
<b>with Gen4</b>					
420	Solenoid Group .....	1	06-Up	131420AK	N/A
421	Solenoid, "G" (Main Body & C6 Enable) .....	2	06-Up	131421	5A-436
421	Solenoid, PCS1, PCS2 (Black, Normally Open) .....	2	06-Up	131418	N/A
421	Solenoid, PCS3, PCS4, TCC, Main Modulation (Brown, Normally Closed) .....	4	06-Up	131425	N/A
421	Solenoid, PCS6 (C6 Regulation) (Brown, Normally Closed) .....	1	06-Up	131425	N/A
411	Switch, Valve Body PS1 w/ Bracket .....	1	06-Up	131411	N/A
437	Sensor, Oil Temperature .....	1	06-Up	131437	N/A
436E	Sensor, ESS (Bell Housing) .....	1	06-Up	131436	20A-436
438H	Sensor, ISS (Valve Body) .....	1	06-Up	131438	N/A
436H	Sensor, OSS (Extension Housing) (Non Grade Retard) .....	1	06-Up	131436	20A-436
446H	Wire Harness, w/ Oil Level Sensor (6 Speed) .....	1	06-Up	131446C	N/A
<b>HARD PARTS</b>					
Prefix Key: D=OEM, A=Aftermarket New, R=Remanufactured					
<b>PUMPS</b>					
510F	Pump Body w/ Gears (w/ PTO) .....	1	92-Up	131510	N/A
510F	Pump Body w/ Gears (w/o PTO) .....	1	92-Up	131510A	N/A
520F	Pump Cover (w/ PTO) (2nd Design) .....	1	92-Up	131520	N/A
520F	Pump Cover (w/o PTO) (2nd Design) .....	1	92-Up	131520A	N/A
529F	Ground Sleeve (w/ PTO) (2nd Design) .....	1	92-Up	131529	14984B
529F	Ground Sleeve (w/o PTO) (2nd Design) .....	1	92-Up	131529A	14984
<b>PUMP COMPONENTS</b>					
507F	Pump Sleeve (Converter) (w/ PTO) .....	1	92-Up	131507	N/A
530F	Pump Gears (Drive/Driven) (3rd Design) .....	1	92-Up	131530C	N/A
544F	Pump Wear Plate (2nd Design) .....	1	92-Up	131544	N/A
<b>DRUMS &amp; CLUTCH HUBS</b>					
553D	Housing, C3 (except Gen4) .....	1	92-05	131553	N/A
553D	Housing, C3 (Gen4) .....	1	06-Up	131553A	N/A
545H	Housing, C4 (except Gen4) .....	1	92-05	131545	N/A

# ALLISON

## MD 3000 SERIES

## 6 SPEED

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>DRUMS &amp; CLUTCH HUBS (cont.)</b>					
545H	Housing, C4 (Gen4).....	1	06-Up	131545A	N/A
554B	Drum, Rotating C1/C2 .....	1	92-Up	131554	N/A
574B	Hub, Rotating C1/C2 (2nd Design) .....	1	92-Up	131574	N/A
573C	Hub, C1 Clutch .....	1	92-Up	131573	N/A
570C	Hub, C2 Clutch .....	1	92-Up	131570	N/A
<b>PLANETS &amp; RING GEARS</b>					
<b>P1 w/Oil Groove (Straight Thru Models Only)</b>					
580C	Planet w/ Gears (Loaded).....	1	92-Up	131580	N/A
580C	Planet Housing Only .....	1	92-Up	131580-5	N/A
580C	Planet Gear Set (Contains 6 Gears).....	6	92-Up	131580-2K	N/A
580C	Pin (Planet Gear) .....	6	92-Up	131580-3	N/A
580C	Pin Retainer .....	1	92-Up	131580-8	N/A
580C	Pin Washer .....	12	92-Up	131580-1	N/A
590C	Ring Gear .....	1	92-Up	131590	N/A
<b>P2 w/o Ring Groove (Straight Thru Models Only)</b>					
582C	Planet w/ Gears (Close Ratio) (Loaded).....	1	92-Up	131582	N/A
582C	Planet w/ Gears (Wide Ratio) (Loaded).....	1	92-Up	131582A	N/A
582C	Planet Housing Only (Close Ratio) .....	1	92-Up	131582-5	N/A
582C	Planet Housing Only (Wide Ratio) .....	1	92-Up	131582-5A	N/A
582C	Planet Gear Set (Contains 4 Gears) (Close Ratio).....	4	92-Up	131582-2K	N/A
582C	Planet Gear Set (Contains 4 Gears) (Wide Ratio).....	4	92-Up	131582-2AK	N/A
582C	Pin (Planet Gear) (Close Ratio) .....	4	92-Up	131582-3	N/A
582C	Pin (Planet Gear) (Wide Ratio) .....	4	92-Up	131582-3A	N/A
582C	Pin Retainer .....	1	92-Up	131582-8A	N/A
582C	Pin Washer (Close Ratio) .....	8	92-Up	131582-1	N/A
582C	Pin Washer (Wide Ratio) .....	8	92-Up	131582-1A	N/A
592C	Ring Gear .....	1	92-Up	131592	N/A
<b>P3 w/43 Splines, w/o Grade Retard (Tanged Washer Design) (Straight Thru Models Only)</b>					
584H	Planet w/ Gears (Close Ratio) (Loaded).....	1	95-E05	131584	N/A
584H	Planet w/ Gears (Wide Ratio) (Loaded).....	1	95-E05	131584A	N/A
584H	Planet Housing Only (Close Ratio) .....	1	95-E05	131584-5	N/A
584H	Planet Housing Only (Wide Ratio) .....	1	95-E05	131584-5A	N/A
584H	Planet Gear Set (Contains 4 Gears) (Close Ratio).....	4	95-Up	131584-2K	N/A
584H	Planet Gear Set (Contains 4 Gears) (Wide Ratio).....	4	95-Up	131584-2AK	N/A
584H	Pin (Planet Gear) (Close Ratio) .....	4	95-Up	131584-3	N/A
584H	Pin (Planet Gear) (Wide Ratio) .....	4	95-Up	131584-3A	N/A
584H	Pin Retainer (Close Ratio) .....	1	95-Up	131584-8	N/A
584H	Pin Retainer (Wide Ratio) .....	1	95-Up	131582-8A	N/A
584H	Pin Washer (Close Ratio) .....	8	95-Up	131584-1	N/A
584H	Pin Washer (Wide Ratio) .....	8	95-Up	131584-1A	N/A
594C	Ring Gear .....	1	95-Up	131594	N/A
<b>P3 w/41 Splines, w/o Grade Retard (Belleville Washer Design) (Straight Thru Models Only)</b>					
584H	Planet w/ Gears (Close Ratio) (Loaded).....	1	L05-Up	131584B	N/A
584H	Planet w/ Gears (Wide Ratio) (Loaded).....	1	L05-Up	131584C	N/A
584H	Planet Housing Only (Close Ratio) .....	1	L05-Up	131584-5B	N/A
584H	Planet Housing Only (Wide Ratio) .....	1	L05-Up	131584-5C	N/A
584H	Planet Gear Set (Contains 4 Gears) (Close Ratio).....	4	L05-Up	131584-2K	N/A
584H	Planet Gear Set (Contains 4 Gears) (Wide Ratio).....	4	L05-Up	131584-2AK	N/A
584H	Pin (Planet Gear) (Close Ratio) .....	4	L05-Up	131584-3	N/A
584H	Pin (Planet Gear) (Wide Ratio) .....	4	L05-Up	131584-3A	N/A
584H	Pin Retainer (Close Ratio) .....	1	L05-Up	131584-8	N/A

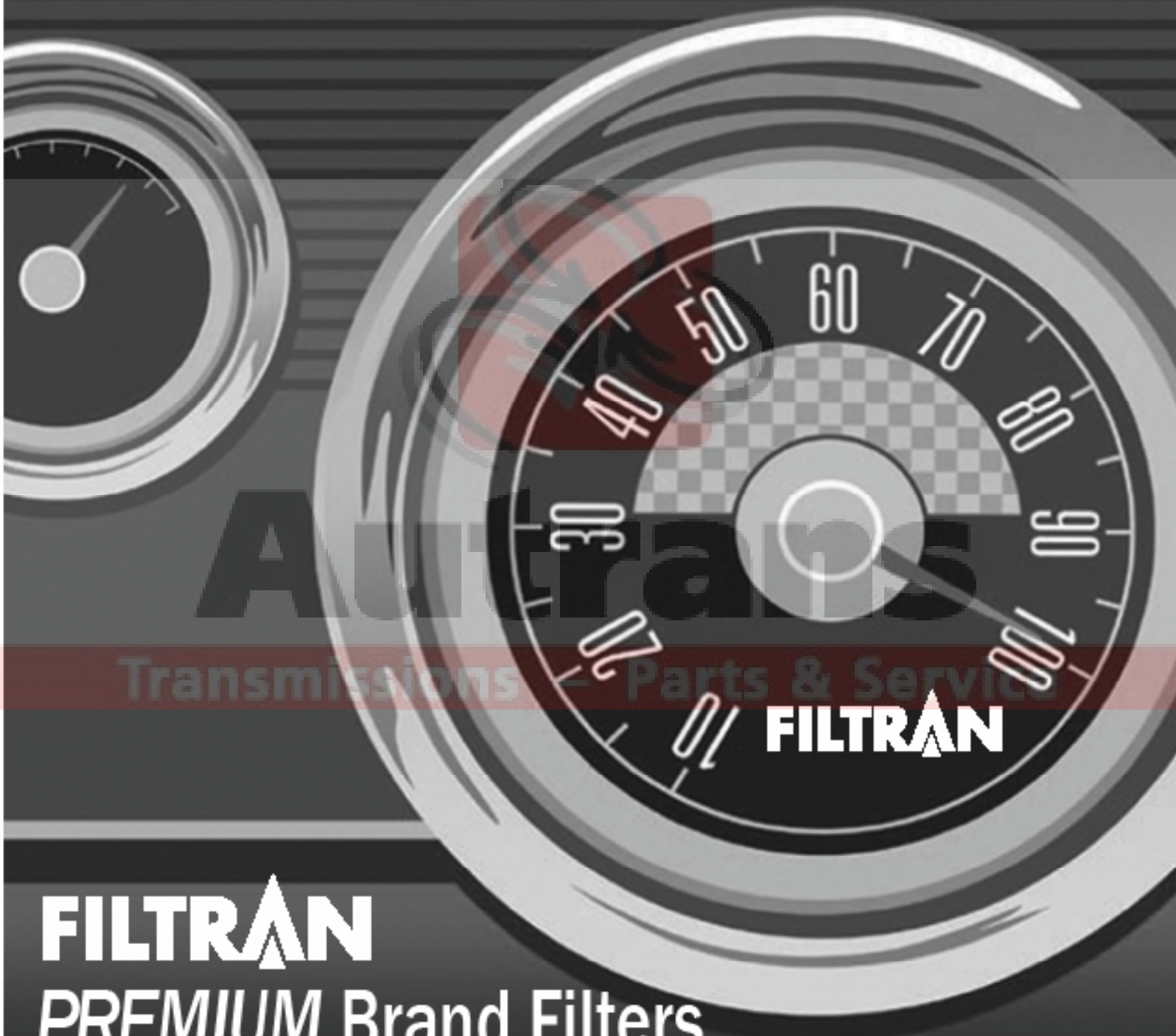


**6 SPEED****ALLISON  
MD 3000 SERIES**

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>PLANETS &amp; RING GEARS (cont.)</b>					
<b>P3 w/41 Splines, w/o Grade Retard (Belleville Washer Design) (Straight Thru Models Only) (cont.)</b>					
584H	Pin Retainer (Wide Ratio) .....	1	L05-Up	131582-8A	N/A
584H	Pin Washer (Close Ratio) .....	8	L05-Up	131584-1	N/A
584H	Pin Washer (Wide Ratio) .....	8	L05-Up	131584-1A	N/A
594C	Ring Gear (Close Ratio) .....	1	L05-Up	131594	N/A
594C	Ring Gear (Wide Ratio) .....	1	L05-Up	131594A	N/A
<b>SUN GEARS, SHELLS, &amp; SUPPORTS</b>					
610C	P1 Sun Gear (w/ Flange) .....	1	92-Up	131610	N/A
612H	P2 Sun Gear (Close Ratio) .....	1	92-Up	131612	N/A
612H	P2 Sun Gear (Wide Ratio) .....	1	92-Up	131612A	N/A
614H	P3 Sun Gear (Close Ratio) (Sun Gear Only) .....	1	92-Up	131614	N/A
614H	P3 Sun Gear (Wide Ratio) (Includes Main Shaft) .....	1	92-Up	131672A	14956
<b>SHAFTS</b>					
529F	Ground Sleeve (w/ PTO) (2nd Design) .....	1	92-Up	131529	14984B
529F	Ground Sleeve (w/o PTO) (2nd Design) .....	1	92-Up	131529A	14984
672H	Main Shaft (Close Ratio) (2nd Design) (Shaft Only) .....	1	92-Up	131672B	14956B
672H	Main Shaft (Wide Ratio) (2nd Design) (Includes P3 Sun Gear) .....	1	92-Up	131672A	14956
673B	Turbine Shaft (w/ PTO) (2nd Design) .....	1	92-Up	131673	N/A
673B	Turbine Shaft (w/o PTO) (2nd Design) .....	1	92-Up	131673A	N/A
678H	Output Shaft (One Bolt Design, 43 Spline) (Straight Thru Models Only) .....	1	92-E05	131678	N/A
678H	Output Shaft (One Bolt Design, 41 Spline) (Straight Thru Models Only) .....	1	L05-Up	131678A	N/A
<b>VALVE BODIES</b>					
747H	Separator Plate Stamped # 5231 (except Gen4) .....	1	92-05	131747	N/A
747H	Separator Plate Stamped # 5232 (except Gen4) .....	1	92-05	131747A	N/A
747H	Separator Plate Stamped # 2915 (Gen4) .....	1	06-Up	131747B	N/A
747H	Separator Plate Stamped # 2916 (Gen4) .....	1	06-Up	131747C	N/A
<b>CASES &amp; HOUSINGS</b>					
760E	Case, Main (2nd Design) .....	1	92-Up	131760	N/A
<b>PISTONS</b>					
964B	C1 Piston (2nd Design) .....	1	92-Up	131964	N/A
964G	C1 Piston Retainer (2nd Design) .....	1	92-Up	131964B	N/A
974G	C1 Piston Return Spring .....	1	92-Up	131974	N/A
960B	C2 Piston .....	1	92-Up	131960	N/A
970B	C2 Piston Return Spring .....	1	92-Up	131970	N/A
962D	C3 Piston (Bonded Rubber) (except Gen4) .....	1	92-05	131962	14528
962D	C3 Piston (Bonded Rubber) (Gen4) .....	1	06-Up	131962B	N/A
963H	C4 Piston (Bonded Rubber) (except Gen4) .....	1	92-05	131962	14528
963H	C4 Piston (Bonded Rubber) (Gen4) .....	1	06-Up	131962B	N/A
967I	C5 Piston (w/o Grade Retard) .....	1	92-Up	131967	N/A
<b>MISCELLANEOUS COMPONENTS</b>					
880	Snap Ring, Input Shaft .....	1	92-Up	131880	N/A
876G	Snap Ring, Rotating Clutch (Large) .....	3	92-Up	131876	N/A
877G	Snap Ring, Rotating Clutch (Small) .....	2	92-Up	131877	N/A
146	Thrust Pads, C3 Backing / C3 Housing (Rivet Design) .....	3	92-Up	131146-1A	N/A
146	Thrust Pads, C3 Backing / C3 Housing (Press In Design) .....	3	04-Up	131146-1B	N/A
146	Thrust Pad Rivet, C3 Backing / C3 Housing .....	AR	92-Up	131146-2A	N/A
268	Output Shaft Bearing (Tapered) (P3) .....	2	92-Up	131268	N/A
269	Output Shaft Bearing Race (Tapered) (P3) .....	2	92-Up	131269	N/A
798I	Output Shaft Nut (Star Washer Design) (Straight Thru Models Only) ..	1	92-1/05	131798	N/A

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# A Measurable Difference in Transmission Filter Performance

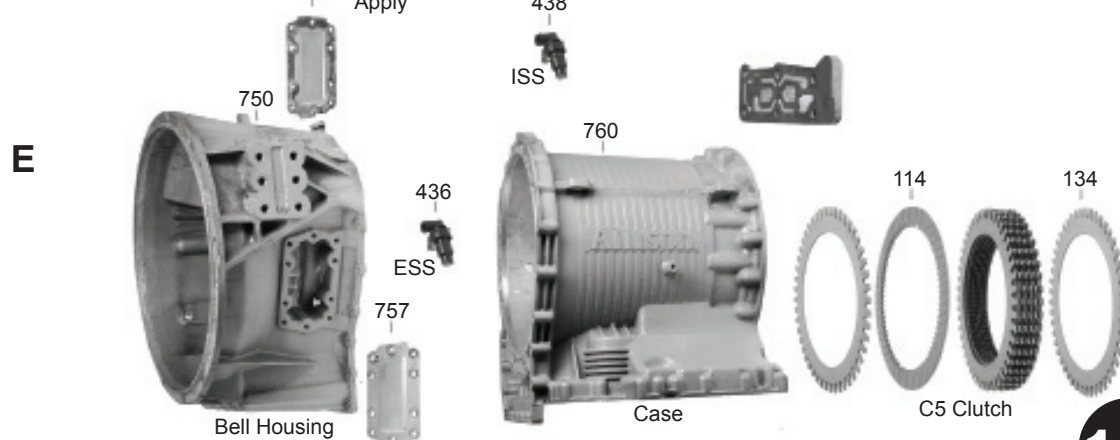
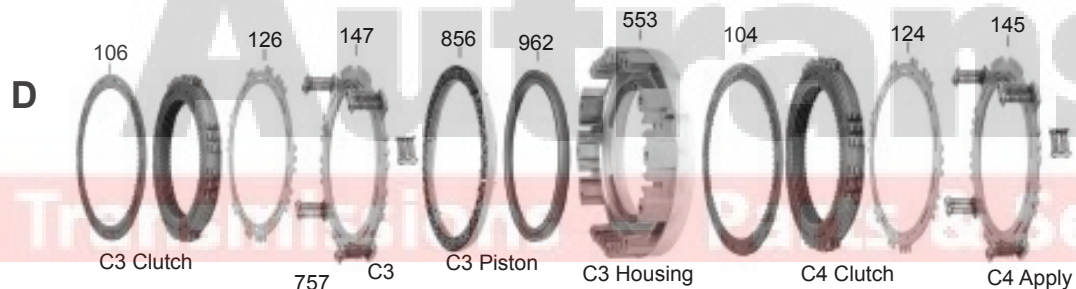
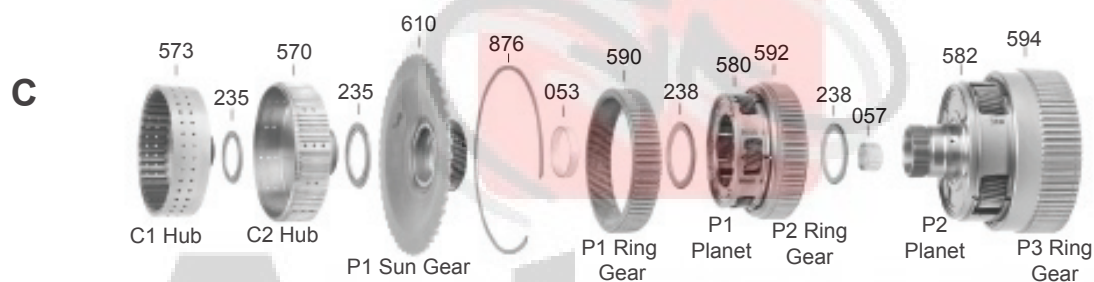
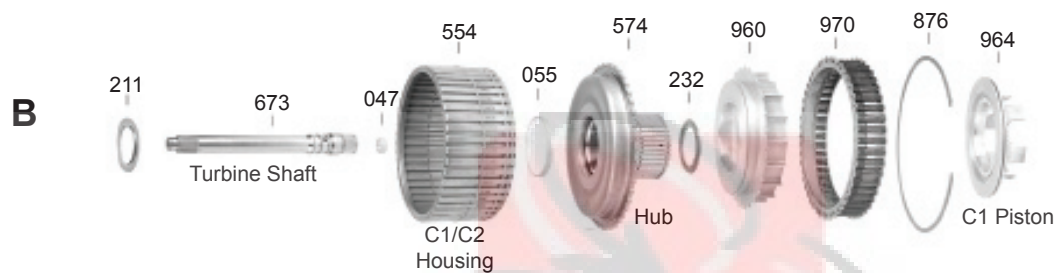
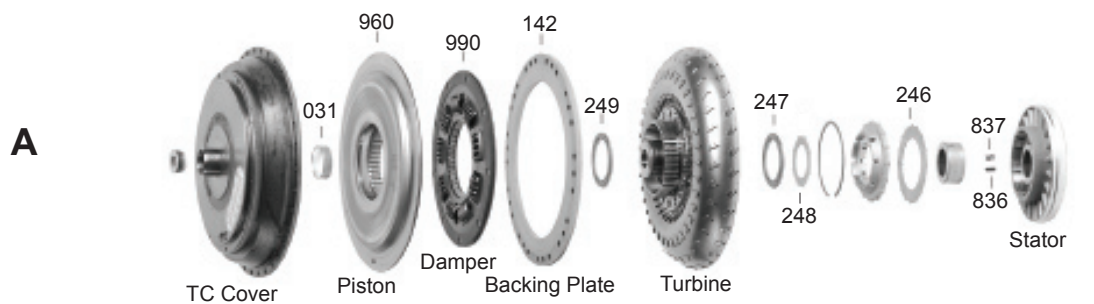


**FILTRAN**  
**PREMIUM** Brand Filters



# ALLISON HD 4000 SERIES

## 6 SPEED

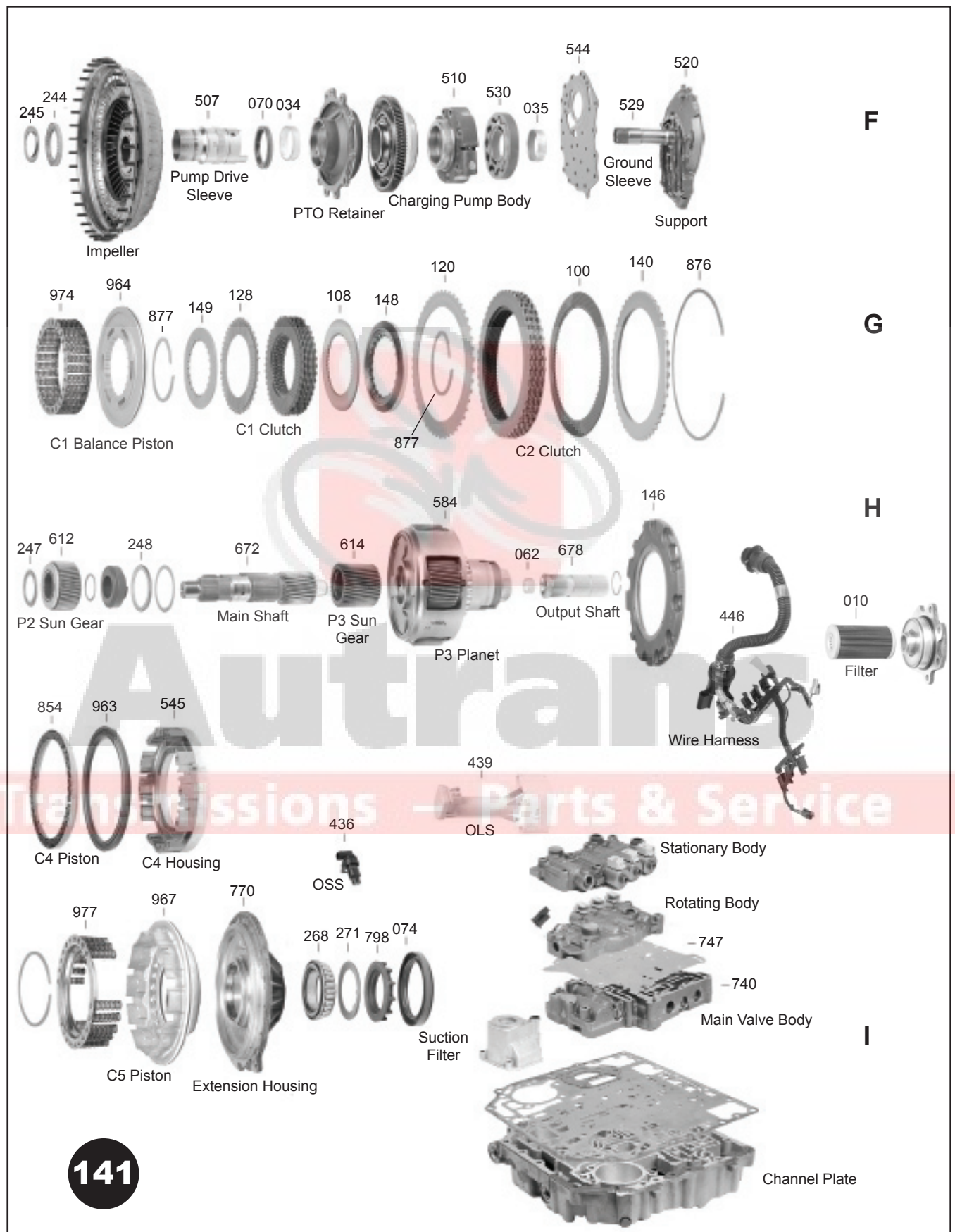


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# 6 SPEED

# ALLISON HD 4000 SERIES



# ALLISON HD 4000 SERIES

## 6 SPEED

### HD 4000 Series™ (Heavy Duty)

New Designation – No Prefix (Close Ratio)

4000EVS, 4000HS, 4000MH, 4000RDS, 4000SP\*\*, 4000TRV

New Designation – No Prefix (Wide Ratio)

4500EVS, 4500HS, 4500SP\*\*, 4500TRV

4700EVS, 4700RDS, 4700SP\*\*

4800EVS\*\*, 4800SP\*\*

Old Designation – HD Prefix (Close Ratio)

HD 4060, 4060P, 4060R, 4060PR,

HD 4070\*\*, 4070P\*\*, 4070R\*\*, 4070PR\*\*, 4076\*\*

Old Designation – HD Prefix (Wide Ratio)

HD 4560, 4560P, 4560R, 4560PR

### B500

Bus Designators – B Prefix (Available in North America)

B500, B500P, B500R\*\*, B500PR\*\*

### T425, T450

Bus Designators – T Prefix (Not Available in North America)

T425\*\*, T450\*\*

\*\* Indicates models that are unique and special order only.

### Model Designation Code

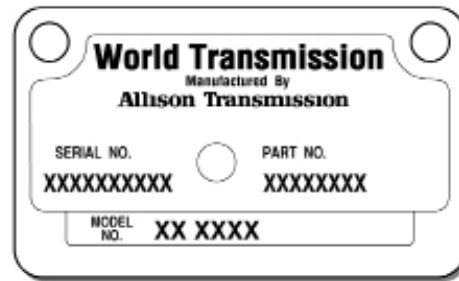
**HD 4 0 6 0 EVS**

(Stamped on the Transmission Name Plate)

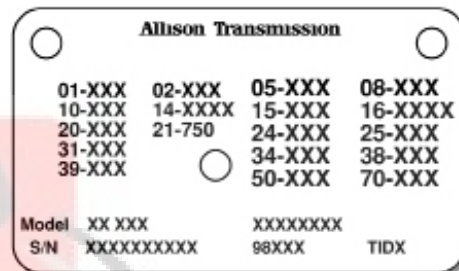
**B 5 0 0 P**

<b>RM</b>	Remanufactured transmission
<b>EVS</b>	Emergency Vehicle Series
<b>HS</b>	Highway Series
<b>MH</b>	Motor Home Series
<b>PTS</b>	Pupil Transportation, Shuttle Series
<b>RDS</b>	Rugged Duty Series
<b>SP</b>	Specialty Series
<b>TRV</b>	Truck Recreational Vehicle Series
<b>P</b>	PTO Provision
<b>R</b>	Retarder
<b>T</b>	Transfer Case
<b>0</b>	Major Revisions
<b>6 or 7</b>	Number of Forward Ranges
<b>0</b>	Close Ratio
<b>2</b>	Close Ratio
<b>5</b>	Wide Ratio
<b>7</b>	Wide Ratio Coverage, 7 Speeds
<b>8</b>	Wide Ratio Coverage, 7 Speeds (Incr. Ratings)
<b>4 or 5</b>	Transmission Series (4, 400, 500)
<b>HD</b>	Planetary Gear-type Automatic Trans.
<b>B</b>	Bus (Available in North America)
<b>T</b>	Bus (Not Available in North America)

### Type 1



### Type 2



**6 SPEED****ALLISON  
HD 4000 SERIES**

131010



131010A

**\*NOTE: At the end of 2005, a major revision was made to Allison transmissions called Generation 4, commonly referred to as Gen4.**

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>MASTER OVERHAUL KITS (WITH STEELS)</b>					
006	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (except Gen4).....	1	94-05	141006	K1400R
006	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (Gen4) .....	1	06-Up	141006B	N/A
<b>LESS STEEL KITS</b>					
004	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (except Gen4).....	1	94-05	141004	K1400R-LS
004	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (Gen4) .....	1	06-Up	141004B	N/A
<b>OVERHAUL KITS (W/ RINGS &amp; SEALS)</b>					
002	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (w/o Retarder) (except Gen4)	1	94-05	141002	K14900R
002	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (w/ Retarder) (except Gen4)	1	94-05	141002D	N/A
002	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (w/o Retarder) (Gen4) .....	1	06-Up	141002B	N/A
002	w/ VB Sub Kit, w/ C3-C4 Bonded Pistons (w/ Retarder) (Gen4) .....	1	06-Up	141002C	N/A
<b>VALVE BODY SUBKITS</b>					
001	Includes Upper & Lower VB Gaskets .....	AR	94-Up	141001	K14900S-2
<b>FILTERS &amp; FILTER KITS</b>					
010H	4" Cartridge (Includes 2 filters, gaskets & seals) .....	1	94-Up	131010	14800
010H	6" Cartridge (Includes 2 filters, gaskets & seals) .....	1	94-Up	131010A	14800A
010I	Suction Filter Kit w/ Housing (Gen4 Design - Retros All).....	1	94-Up	131010D	14803
<b>BUSHINGS</b>					
030	Bushing Kit (Includes 2nd Design Pump Gear Bushing) .....	1	94-Up	141030	K14902P
031A	Converter Cover .....	1	94-Up	141031	N/A
034F	PTO Gear Support / Pump Body .....	1	94-Up	141034	N/A
035F	Pump Gear (1st Design) .....	1	1994	141035	N/A
035F	Pump Gear (2nd Design).....	1	94-E04	141035A	N/A
035F	Pump Gear (3rd Design).....	1	L04-Up	141035B	N/A
047B	Input Shaft .....	1	94-Up	141047	N/A
055B	Rotating (Input) Hub .....	1	94-Up	141055	N/A
053C	P1 Planet Carrier .....	1	94-Up	141053	N/A
057C	P2 Planet Carrier .....	1	94-Up	141057	N/A
062H	Output Shaft.....	1	94-Up	141047	N/A
<b>METAL CLAD SEALS</b>					
070F	PTO Support / Pump (Narrow Single Lip Design).....	1	94-Up	141070	14200P
070F	PTO Support / Pump (Wide Double Lip Design).....	1	94-Up	141070A	N/A
074I	Output (Extension Housing).....	1	94-Up	141074	14850P

# ALLISON

## HD 4000 SERIES

## 6 SPEED

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>FRICTION PLATES</b>					
Prefix Key: J = Dynax, R = Raybestos, W = Wellman					
108G	C1 Clutch (External Teeth).....	7	94-Up	141108	14100M
100G	C2 Clutch .....	7	94-Up	141100	14102M
106D	C3 Clutch .....	5	94-Up	141104	14104M
104D	C4 Clutch .....	5	94-Up	141104	14104M
114E	C5 Clutch (Use w/ Non Hardened P3 Ring Gear) .....	8	94-Up	141114	14106M
114E	C5 Clutch (Use w/ Hardened P3 Ring Gear) .....	8	94-Up	141114B	N/A
N.I.	C6 Clutch .....	8	94-Up	141114A	14108M
<b>STEEL PLATES</b>					
128G	C1 Clutch (Internal Teeth).....	6	94-Up	141128	14101M
120G	C2 Clutch .....	7	94-Up	141120	14103M
126D	C3 Clutch (.100") (except Gen4).....	4	94-05	141124	14105M
126D	C3 Clutch (.130") (Gen4) .....	5	06-Up	141124B	N/A
124D	C4 Clutch (.100") (except Gen4).....	5	94-05	141124	14105M
124D	C4 Clutch (.130") (Gen4) .....	6	06-Up	141124B	N/A
134E	C5 Clutch .....	9	94-Up	141134	14107M
N.I.	C6 Clutch .....	9	94-Up	141134A	14109M
<b>PRESSURE PLATES</b>					
Prefix Key: D = OEM, A = Aftermarket New, R = Remanufactured					
148G	C1 Backing (10mm Thick) (2nd Design).....	1	94-Up	141142	N/A
149G	C1 Apply (6mm Thick) (2nd Design).....	1	94-Up	141149	N/A
140G	C2 Backing .....	1	94-Up	141140	N/A
146H	C3 Backing (w/ Thrust Pads) (except Gen4) .....	1	94-05	141146	N/A
147D	C3 Apply (w/ Spring Sets) (except Gen4) .....	1	94-05	141147	N/A
147D	C3 Apply Spring Sets (except Gen4) .....	4	94-05	141147-2	N/A
856D	C3 Cushion Spring w/ Retainer (except Gen4).....	1	94-05	141856	N/A
145D	C4 Apply (w/ Spring Sets) (except Gen4) .....	1	94-05	141147	N/A
145D	C4 Apply Spring Sets (except Gen4) .....	4	94-05	141147-2	N/A
854H	C4 Cushion Spring w/ Retainer (except Gen4).....	1	94-05	141856	N/A
<b>SEALING RINGS</b>					
175	Sealing Ring Kit .....	1	94-Up	141175	K14901R
<b>THRUST BEARINGS</b>					
201	Thrust Bearing Kit .....	1	94-Up	141201	N/A
211B	Pump Support to Rotating Hub .....	1	94-Up	141211	N/A
232B	Rotating Hub to C1 Hub.....	1	94-Up	131248	N/A
235C	C2 Hub (Front & Rear).....	2	94-Up	141235	N/A
238C	P1 Planet (Front) .....	1	94-Up	141235	N/A
238C	P1 Planet (Rear) .....	1	94-Up	141238	N/A
247H	P2 Planet (Rear) .....	1	94-Up	141251	N/A
248H	P2 Sun Gear (Rear) (Close Ratio).....	1	94-Up	141238	N/A
248H	P2 Sun Gear (Rear) (Wide Ratio).....	1	94-Up	131248	N/A
<b>GASKETS &amp; O-RINGS</b>					
310	Gasket, Bell Housing .....	1	94-Up	141310	N/A
305	Gasket, Extension Housing .....	1	94-Up	141305	N/A
319	Gasket, PTO Cover.....	2	94-Up	131319	N/A
320	Gasket, Valve Body (Pan) (Upper).....	1	94-Up	141320	13350
321	Gasket, Valve Body (Pan) (Lower).....	1	94-Up	141321	13351
326	Gasket, Filter Cover .....	2	94-Up	131326	N/A



**6 SPEED****ALLISON  
HD 4000 SERIES**

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>GASKETS &amp; O-RINGS (cont.)</b>					
326	O-Ring, Filter Cover (Small) (2nd Design).....	1	94-Up	131326A	N/A
326	O-Ring, Filter Cover (Large) (2nd Design).....	1	94-Up	131326B	N/A
071	Seal, Case to Valve Body Face .....	AR	94-Up	131071	N/A
<b>TECHNICAL MANUALS</b>					
400	Service Manual (OEM) .....	1	94-Up	141400M	TM-4560M
400	Parts Manual (OEM) .....	1	94-Up	141400P	TM-4560P
400	Trouble Shooting Manual (HD & MD) (TID2) .....	1	94-05	131400T	TM-3060T
400	Trouble Shooting Manual (HD & MD) (TID3) .....	1	94-05	131400TA	TM-3061T
400	Trouble Shooting Manual (HD & MD) (Gen4) .....	1	06-Up	131400TB	N/A
<b>ELECTRICAL COMPONENTS</b>					
<b>except Gen4</b>					
420	Solenoid Group (7 Solenoids).....	1	94-05	131420K	31A-436
421	Solenoid, "G" (Main Body & C6 Interlock).....	2	94-05	131421	5A-436
421	Solenoid, C1, C2 (Rotating Body).....	2	94-05	131421A	5A-436A
425	Solenoid, C3, C4, C5, Lockup (Stationary Body).....	4	94-05	131421B	5A-436B
421	Solenoid, C6 (Clutch Regulator) .....	1	94-05	131421E	5A-436E
415	Switch, Valve Body Pressure .....	1	94-05	131415	15A-437
439H	Sensor, Oil Level (3 Terminal Design).....	1	00-05	141439	N/A
436E	Sensor, ESS (Bell Housing) .....	1	94-05	131436	20A-436
438E	Sensor, ISS (Case) .....	1	94-05	141438	N/A
436H	Sensor, OSS (Extension Housing) (Non Grade Retard) .....	1	94-05	131436	20A-436
446H	Wire Harness, w/ Oil Level Sensor (TID1) .....	1	94-05	141446	N/A
446H	Wire Harness, w/ Oil Level Sensor (TID2) .....	1	94-05	141446A	N/A
446H	Wire Harness, w/ Oil Level Sensor (TID3) .....	1	94-05	141446B	N/A
<b>with Gen4</b>					
420	Solenoid Group .....	1	06-Up	131420AK	N/A
421	Solenoid, "G" (Main Body & C6 Enable) .....	2	06-Up	131421	5A-436
421	Solenoid, PCS1, PCS2 (Black, Normally Open) .....	2	06-Up	131418	N/A
425	Solenoid, PCS3, PCS4, TCC, Main Modulation (Brown, Normally Closed) .....	4	06-Up	131425	N/A
421	Solenoid, PCS6 (C6 Regulation) (Brown, Normally Closed) .....	1	06-Up	131425	N/A
411	Switch, Valve Body PS1 w/ Bracket .....	1	06-Up	131411	N/A
437	Sensor, Oil Temperature .....	1	06-Up	131437	N/A
436E	Sensor, ESS (Bell Housing) .....	1	06-Up	131436	20A-436
438E	Sensor, ISS (Case) .....	1	06-Up	141438	N/A
436H	Sensor, OSS (Extension Housing) (Non Grade Retard) .....	1	06-Up	131436	20A-436
446H	Wire Harness, w/ Oil Level Sensor (6 Speed) .....	1	06-Up	141446C	N/A
<b>HARD PARTS</b>					
<b>Prefix Key: D = OEM, A = Aftermarket New, R = Remanufactured</b>					
<b>PUMPS</b>					
510F	Pump Body w/ Gears (w/ PTO).....	1	94-Up	141510	N/A
510F	Pump Body w/ Gears (w/o PTO).....	1	94-Up	141510A	N/A
520F	Pump Cover (w/ PTO) (2nd Design).....	1	94-Up	141520	N/A
520F	Pump Cover (w/o PTO) (2nd Design).....	1	94-Up	141520A	N/A
529F	Ground Sleeve (w/ PTO) (2nd Design).....	1	94-Up	141529	14984P
529F	Ground Sleeve (w/o PTO) (2nd Design).....	1	94-Up	141529A	14984M
<b>PUMP COMPONENTS</b>					
507F	Pump Sleeve (Converter) (w/ PTO).....	1	94-Up	141507	N/A
530F	Pump Gears (Drive/Driven) (3rd Design).....	1	94-Up	141530C	N/A
544F	Pump Wear Plate (2nd Design) .....	1	94-Up	141544	N/A

# ALLISON

## HD 4000 SERIES

## 6 SPEED

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>DRUMS &amp; CLUTCH HUBS</b>					
553D	Housing, C3 (except Gen4) .....	1	94-05	141553	N/A
553D	Housing, C3 (Gen4) .....	1	06-Up	141553A	N/A
545H	Housing, C4 (except Gen4) .....	1	94-05	141545	N/A
545H	Housing, C4 (Gen4) .....	1	06-Up	141545A	N/A
554B	Drum, Rotating C1/C2 .....	1	94-Up	141554	N/A
574B	Hub, Rotating C1/C2 (2nd Design) .....	1	94-Up	141574	N/A
573C	Hub, C1 Clutch .....	1	94-Up	141573	N/A
570C	Hub, C2 Clutch .....	1	94-Up	141570	N/A
<b>PLANETS &amp; RING GEARS</b>					
<b>P1 (Straight Thru Models Only)</b>					
580C	Planet w/ Gears (Loaded) .....	1	94-Up	141580	N/A
580C	Planet Housing Only .....	1	94-Up	141580-5	N/A
580C	Planet Gear Set (Contains 6 Gears) .....	6	94-Up	141580-2K	N/A
580C	Pin (Planet Gear) .....	6	94-Up	141580-3	N/A
580C	Pin Retainer .....	1	94-Up	141580-8	N/A
580C	Pin Washer .....	12	94-Up	141580-1	N/A
590C	Ring Gear .....	1	94-Up	141590	N/A
<b>P2 (Straight Thru Models Only)</b>					
582C	Planet w/ Gears (Close Ratio) (Loaded) .....	1	94-Up	141582	N/A
582C	Planet w/ Gears (Wide Ratio) (Loaded) .....	1	94-Up	141582A	N/A
582C	Planet Housing Only (Close Ratio) .....	1	94-Up	141582-5	N/A
582C	Planet Housing Only (Wide Ratio) .....	1	94-Up	141582-5A	N/A
582C	Planet Gear Set (Contains 4 Gears) (Close Ratio) .....	4	94-Up	141582-2K	N/A
582C	Planet Gear Set (Contains 4 Gears) (Wide Ratio) .....	4	94-Up	141582-2AK	N/A
582C	Pin (Planet Gear) (Close Ratio) .....	4	94-Up	141582-3	N/A
582C	Pin (Planet Gear) (Wide Ratio) .....	4	94-Up	141582-3A	N/A
582C	Pin Retainer .....	1	94-Up	141582-8A	N/A
582C	Pin Washer (Close Ratio) .....	8	94-Up	141582-1	N/A
582C	Pin Washer (Wide Ratio) .....	8	94-Up	141582-1A	N/A
592C	Ring Gear .....	1	94-Up	141592	N/A
<b>P3 (Straight Thru Models Only) (Belleville Washer Design)</b>					
584H	Planet w/ Gears (Close Ratio) (Loaded) .....	1	94-Up	141584	N/A
584H	Planet w/ Gears (Wide Ratio) (Loaded) .....	1	94-Up	141584A	N/A
584H	Planet Housing Only (Close Ratio) .....	1	94-Up	141584-5	N/A
584H	Planet Housing Only (Wide Ratio) .....	1	94-Up	141584-5A	N/A
584H	Planet Gear Set (Contains 4 Gears) (Close Ratio) .....	4	94-Up	141584-2K	N/A
584H	Planet Gear Set (Contains 4 Gears) (Wide Ratio) .....	4	94-Up	141584-2AK	N/A
584H	Pin (Planet Gear) (Close Ratio) .....	4	94-Up	141584-3	N/A
584H	Pin (Planet Gear) (Wide Ratio) .....	4	94-Up	141584-3A	N/A
584H	Pin Retainer (Close Ratio) .....	1	94-Up	141584-8	N/A
584H	Pin Retainer (Wide Ratio) .....	1	94-Up	141582-8A	N/A
584H	Pin Washer (Close Ratio) .....	8	94-Up	141584-1	N/A
584H	Pin Washer (Wide Ratio) (Front) .....	4	94-Up	141584-1A	N/A
584H	Pin Washer (Wide Ratio) (Rear) .....	4	94-Up	141584-1B	N/A
594C	Ring Gear (Close Ratio) Used w/ C5 Hardened Frictions .....	1	94-Up	141594	N/A
594C	Ring Gear (Wide Ratio) Used w/ C5 Hardened Frictions .....	1	94-Up	141594A	N/A
<b>SUN GEARS, SHELLS &amp; SUPPORTS</b>					
610C	P1 Sun Gear (w/ Flange) .....	1	94-Up	141610	N/A
612H	P2 Sun Gear (Close Ratio) .....	1	94-Up	141612	N/A
612H	P2 Sun Gear (Wide Ratio) .....	1	94-Up	141612A	N/A
614H	P3 Sun Gear (Close Ratio) (Sun Gear Only) .....	1	94-Up	141614	N/A
614H	P3 Sun Gear (Wide Ratio) (Includes Main Shaft) .....	1	94-Up	141672A	14956M

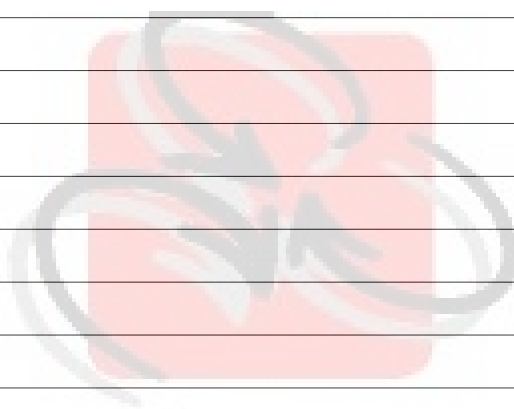
**6 SPEED****ALLISON  
HD 4000 SERIES**

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>SHAFTS</b>					
529F	Ground Sleeve (w/ PTO) (2nd Design) .....	1	94-Up	141529	14984P
529F	Ground Sleeve (w/o PTO) (2nd Design) .....	1	94-Up	141529A	14984M
672H	Main Shaft (Close Ratio) (2nd Design) (Shaft Only) .....	1	94-Up	141672B	14956P
672H	Main Shaft, (Wide Ratio) (2nd Design) (Includes P3 Sun Gear) .....	1	94-Up	141672A	14956M
673B	Turbine Shaft (w/ PTO) (2nd Design) .....	1	94-Up	141673	N/A
673B	Turbine Shaft (w/o PTO) (2nd Design) .....	1	94-Up	141673A	N/A
678H	Output Shaft (Straight Thru Models Only) .....	1	94-Up	141678	N/A
<b>VALVE BODIES</b>					
747I	Separator Plate Stamped # 4398 (except Gen4) .....	1	94-05	141747	N/A
747I	Separator Plate Stamped # 0532 (except Gen4) .....	1	94-05	141747A	N/A
747I	Separator Plate Stamped # 2917 (Gen4) .....	1	06-Up	141747B	N/A
<b>CASES &amp; HOUSINGS</b>					
760E	Case, Main (2nd Design) .....	1	94-Up	141760	N/A
<b>PISTONS</b>					
964B	C1 Piston (2nd Design) .....	1	94-Up	141964	N/A
964G	C1 Piston Retainer (2nd Design) .....	1	94-Up	141964B	N/A
974G	C1 Piston Return Spring .....	1	94-Up	141974	N/A
960B	C2 Piston .....	1	94-Up	141960	N/A
970B	C2 Piston Return Spring .....	1	94-Up	141970	N/A
962D	C3 Piston (Bonded Rubber) (except Gen4) .....	1	94-05	141962	14528M
962D	C3 Piston (Bonded Rubber) (Gen4) .....	1	06-Up	141962B	N/A
963H	C4 Piston (Bonded Rubber) (except Gen4) .....	1	94-05	141962	14528M
963H	C4 Piston (Bonded Rubber) (Gen4) .....	1	06-Up	141962B	N/A
967I	C5 Piston (w/o Grade Retard) .....	1	94-Up	141967	N/A
<b>MISCELLANEOUS COMPONENTS</b>					
880	Snap Ring, Input Shaft .....	1	94-Up	141880	N/A
876G	Snap Ring, Rotating Clutch (Large) .....	3	94-Up	141876	N/A
877G	Snap Ring, Rotating Clutch (Small) .....	2	94-Up	141877	N/A
146	Thrust Pads, C3 Backing / C3 Housing (Peek Material) (Rivet Design) .....	4	94-Up	141146-1A	N/A
146	Thrust Pads, C3 Backing / C3 Housing (Peek Material) (Press In Design) .....	6	04-Up	141146-1B	N/A
146	Thrust Pad Rivet, C3 Backing / C3 Housing .....	AR	94-Up	131146-2A	N/A
268I	Output Shaft Bearing (Tapered) (P3) .....	2	94-Up	141268	N/A
269	Output Shaft Bearing Race (Tapered) (P3) .....	2	94-Up	141269	N/A
798I	Output Shaft Nut (Star Washer Design) (Straight Thru Models Only) ..	1	94-7/01	141798	N/A
798I	Output Shaft Nut (Belleville Washer Design) (Straight Thru Models Only)	1	7/01-Up	141798A	N/A
271I	Output Shaft Washer (Star Washer Design) (Straight Thru Models Only) ..	1	94-7/01	141271	N/A
271I	Output Shaft Washer (Belleville Design) (Straight Thru Models Only) .	1	7/01-Up	141271A	N/A
790	Output Shaft Bolt Upgrade Package (Converts 2 Bolt to 1 Bolt) .....	1	94-Up	141790K	N/A
<b>TORQUE CONVERTER COMPONENTS</b>					
249A	Bearing, Turbine to Cover .....	1	94-Up	141249	N/A
247A	Bearing, Turbine to Stator .....	1	94-Up	131247A	N/A
248A	Bearing Race, Turbine to Stator (w/ Tangs) .....	1	94-Up	141248	N/A
246A	Bearing Race, Stator to End Cap (Wear Plate) (w/ Tangs) .....	1	94-Up	141246	N/A
244F	Bearing, Stator to Impeller .....	1	94-Up	141244	N/A
245F	Bearing Race, Stator to Impeller (Front) (w/ Tangs) .....	1	94-Up	141245A	N/A
245F	Bearing Race, Stator to Impeller (Rear) (w/ Lip) .....	1	94-Up	141245B	N/A
960A	Lockup Apply Piston .....	1	94-Up	141960T	N/A
142A	Lockup Backing Plate .....	1	94-Up	141142	N/A
990A	Lockup Damper w/ Friction .....	1	94-Up	141990B	14948M
389	O-Ring, Cover .....	1	94-Up	141389	N/A
392	O-Ring, Cover Plug .....	1	94-Up	141392	N/A
836A	Stator Rollers .....	13	94-Up	141836	N/A
837A	Stator Springs .....	13	94-Up	141837	N/A

# ALLISON HD 4000 SERIES

## 6 SPEED

### NOTES



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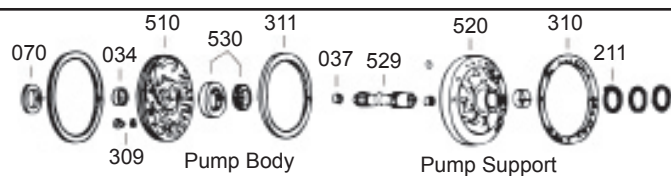


**DIFFERENTIAL  
KITS & COMPONENTS**

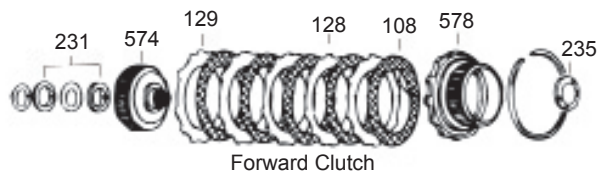
# ALLISON

## AT 540, 543, 545

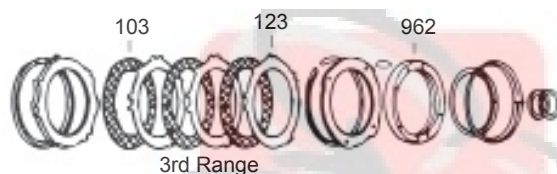
**A**



**B**



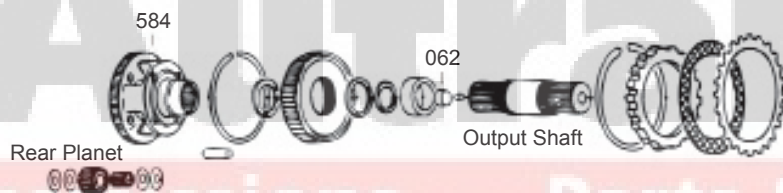
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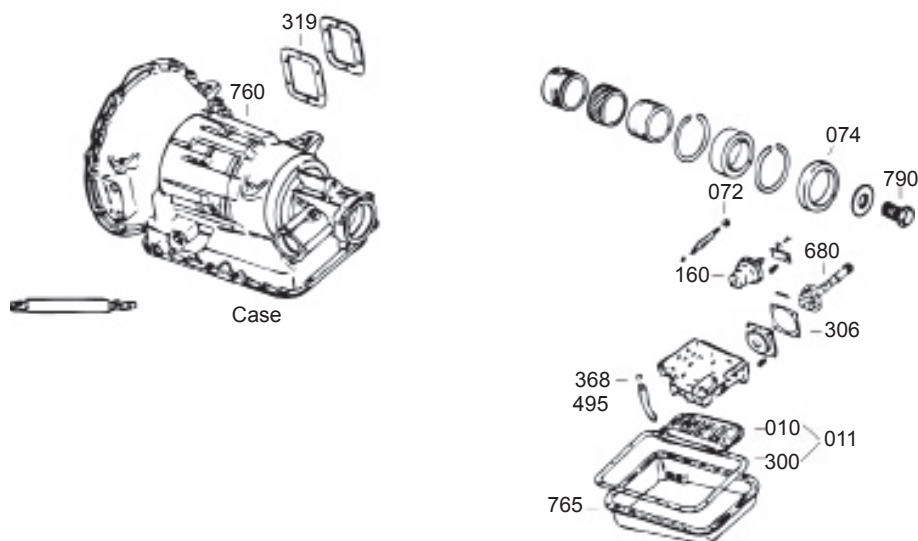
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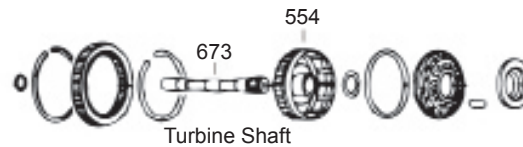


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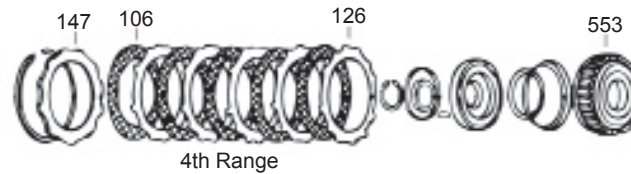


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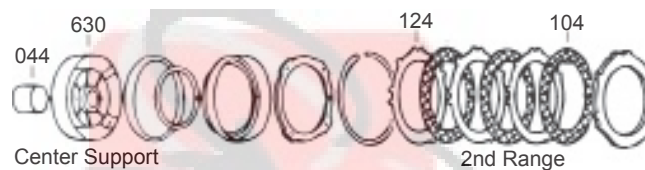
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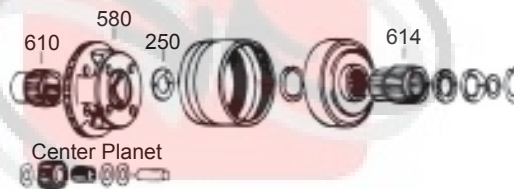
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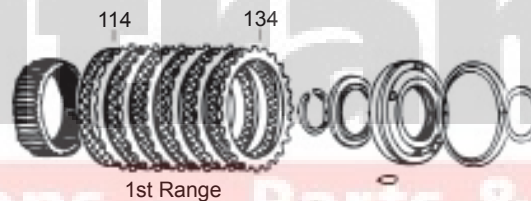
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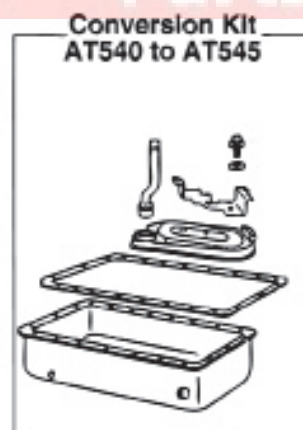


J



K

Deluxe Kit -----	008
Compliance Kit-----	007
Master Kit -----	006
Less Steel Kit-----	004
Overhaul Kit -----	002
Bushing Kit -----	030
Washer Kit -----	200
Bearing Kit -----	201
Technical Manual -----	400
Pump Part-----	507
Valve Body Parts -----	741
Case Parts -----	761
Note: Not all items are available for all transmissions	



-545

L

111



# ALLISON

## AT 540, 543, 545

### AT 540 Series™ (Light Duty)

#### Non Lockup

AT 540, 540RM

AT 542, 542N, 542NFE, 542NFERM, 542NRM, 542RM

AT 543\*\*

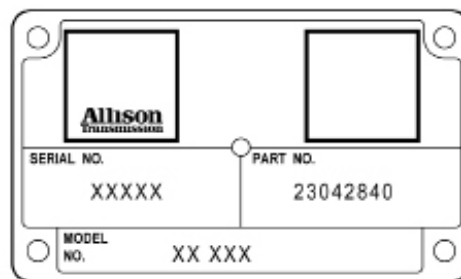
AT 545, 545N, 545NR, 545NRM, 545R, 545RM, 545RRM

#### Lockup

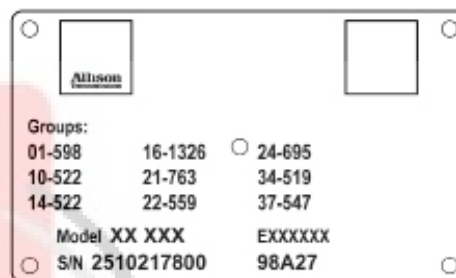
AT 1542, 1542P, 1545, 1545NP, 1545P

\*\* Indicates models that are unique and special order only.

Type 1



Type 2



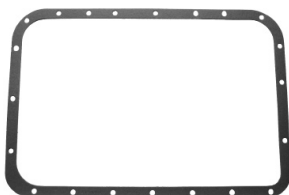
### Model Designation Code

AT	1	5	4	0	N	P	FE	RM	R	(Stamped on the Transmission Name Plate)
									R	Retarder
								RM	RM	Remanufactured Transmission
							FE	FE	FE	Federal Express Custom Build
						P	P	P	P	PTO Provision
					N	N	N	N	N	Second Neutral
				0	0	0	0	0	0	Major Modifications
			4	4	4	4	4	4	4	4 Forward Speed Ranges & 1 Reverse
		5	5	5	5	5	5	5	5	Transmission Series "500"
	1	1	1	1	1	1	1	1	1	Transmission Series "1545" w/ lockup
AT	AT	AT	AT	AT	AT	AT	AT	AT	AT	Planetary Gear-type Automatic Trans.



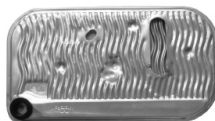
# ALLISON

## AT 540, 543, 545



111300

**NOTE:** Early AT540/545 parts up to serial number 3210775436.  
Late AT545 parts from serial number 3210775437.



111010B



Rear Wheel Drive

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>MASTER OVERHAUL KITS (WITH STEELS)</b>					
006L	All (except AT543 European) (w/ Armstrong® Gasket).....	1	70-Up	111006A	K1100
006L	AT543 European .....	1	70-Up	111006B	K1100A
<b>LESS STEEL KITS</b>					
004L	All (except AT543 European) (w/ Armstrong® Gasket).....	1	70-Up	111004A	K1100-LS
004L	AT543 European .....	1	70-Up	111004B	K1100A-LS
<b>OVERHAUL KITS (W/ RINGS &amp; SEALS)</b>					
002L	All (except AT543 European) (w/ Cork Gasket) .....	1	70-Up	111002	K11900
002L	All (except AT543 European) (w/ Armstrong® Gasket).....	1	70-Up	111002A	K11900W
002L	AT543 European .....	1	70-Up	111002B	K11900A
<b>FILTER KITS</b>					
011F	Filter Kit (Metal Screen w/ Cork Gasket) .....	1	70-Up	111011B	FK11800
011F	Filter Kit (Metal Screen w/ Armstrong® Gasket) .....	1	70-Up	111011C	FK11800W
011F	Filter Kit (Treated Paper w/ Cork Gasket).....	1	70-Up	111011D	FK11800A
011F	Filter Kit (Treated Paper w/ Armstrong® Gasket) .....	1	70-Up	111011E	FK11800AW
011F	Filter Kit (Brass Screen) Late AT Deep Pan.....	1	70-Up	111011	FK34661SW
<b>FILTERS</b>					
010F	Filter (Metal Screen) .....	1	70-Up	111010B	11800
010F	Filter (Treated Paper).....	1	70-Up	111010D	11800A
010F	Filter (545 Update) (Use with 111495B Tube).....	1	70-Up	101010	21800
010F	Filter (Brass Screen).....	1	70-Up	34010B	34661S
013	External Spin on Cartridge (One Quart) .....	1	70-Up	111013	PF-897
014	Governor Tube Screen .....	1	70-Up	111014	11712
<b>BUSHINGS</b>					
030	Bushing Kit (7 Bushings) AT540, Early 545 .....	1	70-Up	111030	K11902
030	Bushing Kit (7 Bushings) Late 545 .....	1	70-Up	111030A	K11902A
034A	Pump Body (Bronze) .....	1	70-Up	111034B	11005
034A	Pump Body (Babbitt).....	1	70-Up	44034	8005
037A	Stator (Front) 1.120" OD .....	1	70-Up	34037	34002
037	Sun Gear (Front & Rear) 1.120" OD (Up to Serial # 3210775437).....	2	70-Up	34037	34002
037	Sun Gear (Front & Rear) 1.190" OD (Serial # 3210775438 & Up) .....	2	70-Up	111037	11007
044I	Center Support (1.540" OD) .....	1	70-Up	111044	11000
044I	Center Support (1.600 O.D.).....	1	70-Up	111044A	11000A
053D	Front Planet .....	1	70-Up	111053	11001
062E	Output Shaft .775" OD (Up to Serial # 3210775437).....	1	70-Up	111062	11002
062E	Output Shaft .815" OD (Serial # 3210775438 & Up) .....	1	70-Up	111062A	11002A
<b>METAL CLAD SEALS</b>					
070A	Front Pump .....	1	70-Up	44070	38151V
074F	Extension Housing.....	1	70-Up	121074	11850
072F	Selector Shaft .....	1	70-Up	44072	38511

# ALLISON

## AT 540, 543, 545

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>FRICITION PLATES</b>					
Prefix Key: R = Raybestos, W = Wellman					
114K	1st Range .....	7	70-Up	111108	11106
104I	2nd Range .....	3	70-Up	111106	11104
103C	3rd Range .....	3	70-Up	111106	11104
106H	4th Range .....	5	70-Up	111104	11103
108B	Forward .....	5	70-Up	111104	11103
<b>STEEL PLATES</b>					
134K	1st Range .....	7	70-Up	111128	11107
124I	2nd Range .....	3	70-Up	111126	11105
123C	3rd Range .....	3	70-Up	111126	11105
126H	4th Range .....	5	70-Up	34126A	34305C
128B	Forward .....	5	70-Up	34126A	34305C
129B	Forward (Waved) .....	1	70-Up	111129	11875
<b>PRESSURE PLATES</b>					
Prefix Key: D = OEM, A = Aftermarket New, R = Remanufactured					
147H	4th Range Backing Plate .....	1	70-Up	111147	11763
<b>MODULATORS</b>					
160F	Modulator (Large Can) .....	1	70-Up	111160A	11820
160F	Modulator (Small Can) .....	1	70-Up	111160	11820A
160F	Modulator (AT 545 Electric Type) .....	1	70-Up	111160B	N/A
<b>SEALING RINGS</b>					
175L	Ring Kit .....	1	70-Up	111175	K11901
<b>THRUST WASHERS &amp; BEARINGS</b>					
202	Washer, Drain Plug (Metal) .....	1	70-Up	111202	11423
202	Washer, Drain Plug (Coated) .....	1	70-Up	111202A	11423B
203	Bearing / Race Kit .....	1	70-Up	101203K	11500BK
211A	Roller Bearing, Ground Sleeve .....	1	70-Up	101211	11221
211A	Washer, Front Pump (.056"-.060") # 0 .....	AR	70-Up	111211A	11407
211A	Washer, Front Pump (.075"-.076") # 1 .....	AR	70-Up	111211B	11407A
211A	Washer, Front Cover (.089"-.093") # 2 .....	AR	70-Up	111211C	11407B
211A	Washer, Front Cover (.105"-.109") # 3 .....	AR	70-Up	111211D	11407C
211A	Washer, Front Cover (.121"-.125") # 4 .....	AR	70-Up	111211E	11407D
211A	Washer, Front Cover (.138"-.142") # 5 .....	AR	70-Up	111211F	11407E
212	Spacer, Turbine, .015" Gold (AT543) .....	AR	70-Up	111212	11403
212	Spacer, Turbine, .030" Silver (AT543) .....	AR	70-Up	111212A	11403A
212	Spacer, Turbine, .042" Plain (AT543) .....	AR	70-Up	111212B	11403B
212	Spacer, Turbine, .060" Black (AT543) .....	AR	70-Up	111212C	11403C
212	Spacer, Turbine, .075" Copper (AT543) .....	AR	70-Up	111212D	11403D
231B	Bearing Package, Forward Hub, Front (3 Piece) .....	1	70-Up	111231K	11503BK
235B	Washer, Fourth Clutch Driving Hub .....	1	70-Up	34235	34301
238D	Washer, Front Planet to Rear Carrier .....	1	70-Up	111238	11415
241D	Washer, Front Sun Gear, Front (Up to Serial # 3210775436) .....	1	70-Up	111241	11411
241D	Washer, Front Sun Gear, Front (Serial # 3210775437 & Up) .....	1	70-Up	111241A	11411A
242D	Washer, Front Sun Gear, Rear (.064" - .068", Color Code Red) .....	AR	70-Up	111242	11412
250J	Washer, Center Planet, Rear Carrier (Up to Serial # 3210775436) .....	1	70-Up	111250C	11418
250J	Washer, Center Planet, Rear Carrier (Serial # 3210775437 & Up) .....	1	70-Up	111244	11418A
250J	Washer, Center Planet, Bronze Pinion .....	8	70-Up	111250A	11416
250J	Washer, Center Planet, Steel Pinion .....	8	70-Up	111250B	11417
250J	Washer, Rear Planet, Bronze Pinion .....	8	70-Up	111250A	11416
250J	Washer, Rear Planet, Steel Pinion .....	8	70-Up	111250B	11417

# ALLISON

## AT 540, 543, 545

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>THRUST WASHERS &amp; BEARINGS (cont.)</b>					
263	Bearing, Rear Output to Case .....	1	70-Up	111263	N/A
268	Bearing, Main Shaft .....	1	70-Up	111268	N/A
211	Roller Bearing, Converter Stator (AT543).....	1	70-Up	111211S	11404
<b>GASKETS &amp; O-RINGS</b>					
300F	Gasket, Bottom Pan (Armstrong®).....	1	70-Up	111300A	13540W
300F	Gasket, Bottom Pan (Cork).....	1	70-Up	111300	13540X
306F	Gasket, Governor Cover .....	1	70-Up	34306	3914D
306F	Gasket, Governor Cover (Armstrong®) .....	1	70-Up	111306	3914LW
309A	Seal / Washer, Front Pump Body Bolt .....	9	70-Up	44309	13268A
310A	Gasket, Pump to Case.....	1	70-Up	111310	13153
311A	Lathe Cut O-Ring, Pump Body to Support.....	1	70-Up	44311	3877L
311A	Lathe Cut Seal, Front Pump Support to Case .....	1	70-Up	111311	13152
319F	Gasket, Power Take Off Cover .....	1	70-Up	111319	13158W
323	Gasket, Converter Pump Hub (AT543 w/ Bolt On Hub).....	1	70-Up	111323	13150W
368F	O-Ring, Oil Filter .....	1	70-Up	12368A	3547L
390	Front Pump Re-Seal Kit (pump gasket, lathe-cut seal, O-ring and bolt washers) ...	1	70-Up	111390	K11900-2
<b>TECHNICAL MANUALS</b>					
400L	Service Manual .....	1	70-Up	111400M	N/A
400L	Parts Catalog .....	1	70-Up	111400P	N/A
<b>ELECTRICAL COMPONENTS</b>					
414	Switch, Reverse Signal / Backup Light (AS36-033).....	1	70-Up	111414	11610
<b>HARD PARTS</b>					
Prefix Key: D = OEM, A = Aftermarket New, R = Remanufactured					
<b>PUMPS</b>					
510A	Pump Body & Gears (Universal).....	1	70-Up	A34510	34200CN
510A	Pump Body & Gears (AT540) Body Cast # 895.....	1	70-Up	111510	34200C
510A	Pump Body & Gears (AT545) Body Cast # 919.....	1	70-Up	111510A	34200D
520A	Support, Front Pump (6 Bolt) (AT540) Body Cast # 895.....	1	70-Up	111520	11921
520A	Support, Front Pump (7 Bolt) (AT545) Body Cast # 919.....	1	70-Up	111520A	11921B
529A	Ground Sleeve (w/ Bearing) .....	1	70-Up	111529A	11202
529A	Ground Sleeve (w/ Bearing & Bushing) .....	1	70-Up	S111529AK	N/A
530A	Pump Gears (.727" Thick).....	1	70-Up	111530	K11201
<b>DRUMS &amp; CLUTCH HUBS</b>					
553H	Housing, 4th Clutch (Up to Serial # 3210775436) .....	1	70-Up	111553	11769
553H	Housing, 4th Clutch (Serial # 3210775437 & Up).....	1	70-Up	111553A	11769A
554G	Housing, Forward Clutch (w/o Turbine Shaft) (Up to Serial # 3210775436) .	1	70-Up	111554	11298
554G	Housing, Forward Clutch (w/ Turbine Shaft) (Serial # 3210775437 & Up) ...	1	70-Up	111554A	11298B
574B	Hub, Forward Clutch (Up to Serial # 3210775436).....	1	70-Up	111574	11634
574B	Hub, Forward Clutch (Serial # 3210775437 & Up) .....	1	70-Up	111574A	11634A
578B	Hub, 4th Clutch (Up to Serial # 3210775436).....	1	70-Up	111578	11732
578B	Hub, 4th Clutch (Serial # 3210775437 & Up) .....	1	70-Up	111578A	11732A
<b>PLANETS</b>					
580J	Center Planet.....	1	70-Up	111580	11676
582D	Front Planet .....	1	70-Up	111582	11768
584E	Rear Planet .....	1	70-Up	111584	11719
580J	Repair Kit, Center Planet .....	4	70-Up	111584-7K	K11216
582D	Repair Kit, Front Planet .....	1	70-Up	111582-7K	K11215
584E	Repair Kit, Rear Planet .....	1	70-Up	111584-7K	K11216
582D	Needle Roller, Front Planet.....	80	70-Up	111582-4	11919

# ALLISON

## AT 540, 543, 545

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>PLANETS (cont.)</b>					
580J	Pin, Center Planet.....	4	70-Up	111584-3	11216
582D	Pin, Front Planet.....	4	70-Up	111582-3	11215
584E	Pin, Rear Planet.....	4	70-Up	111584-3	11216
582D	Washer, Front Planet Pinion Gear (Bronze).....	8	70-Up	111582-1A	11413
582D	Washer, Front Planet Pinion Gear (Steel).....	8	70-Up	111582-1B	11414
<b>SUN GEARS, SHELLS &amp; SUPPORTS</b>					
610J	Sun Gear, Center (Up to Serial # 3210775436).....	1	70-Up	111610	11227
610J	Sun Gear, Center (Serial # 3210775437 & Up).....	1	70-Up	111610B	11227B
612D	Sun Gear, Front (Up to Serial # 3210775436).....	1	70-Up	111612	11232
612D	Sun Gear, Front (Serial # 3210775437 & Up).....	1	70-Up	111612A	11232A
614J	Sun Gear, Rear (Up to Serial # 3210775436).....	1	70-Up	111614	11228
614J	Sun Gear, Rear (Serial # 3210775437 & Up).....	1	70-Up	111614A	11228A
630I	Center Support (Up to Serial # 3210775436).....	1	70-Up	111630	11229
630I	Center Support (Serial # 3210775437 & Up).....	1	70-Up	111630A	11229A
<b>SHAFTS</b>					
529A	Ground Sleeve (w/ Bearing).....	1	70-Up	111529A	11202
529A	Ground Sleeve (w/ Bearing & Bushing).....	1	70-Up	S111529AK	N/A
672D	Shaft, Main 1.000" Journal (Up to Serial # 3210775436).....	1	70-Up	111672	11226
672D	Shaft, Main 1.060" Journal (Serial # 3210775437 & Up).....	1	70-Up	111672C	11226A
672D	Shaft, Main 1.060" Journal (Serial # 3210775437 & Up) (Reinforced).....	1	70-Up	111672A	11226B
673G	Turbine Shaft (Up to Serial # 3210775436).....	1	70-Up	111673	11939
673G	Turbine Shaft (Serial # 3210775437 & Up).....	1	70-Up	111673B	11939B
674D	Shaft, Sun Gear (Up to Serial # 3210775436).....	1	70-Up	111674	11225
674D	Shaft, Sun Gear (Serial # 3210775437 & Up).....	1	70-Up	111674A	11225A
<b>MISCELLANEOUS COMPONENTS</b>					
790F	Bolt, Output Flange.....	1	70-Up	111790	11222
N.I.	Bolt, Torque Converter.....	3-6	70-Up	M464GE	96-178
N.I.	Bolt Kit, Torque Converter (Contains 6).....	1	70-Up	M464GT	N/A
N.I.	Bolt, Use w/ Update Bracket (For Conversion Kit 540 to 545).....	1	70-Up	111794	11548
N.I.	Bolt, Pan (25 per bag).....	1	70-Up	101779	N/A
N.I.	Bracket, Updated (For Conversion Kit 540 To 545).....	1	70-Up	111794B	11546
N.I.	Check Ball (1/4").....	1	70-Up	A76741A-5	13924
N.I.	Check Ball (5/16").....	1	70-Up	76741-5	13924A
545L	Conversion Kit (Deep Pan) AT540 to AT545.....	1	70-Up	UDK-545	UDK-545
545L	Conversion Kit (Deep Pan) AT540 to AT545.....	1	70-Up	S111765C	UDK545-1
N.I.	Drain Plug (Oil Pan).....	1	70-Up	111483	DP-789
N.I.	Gear, P.T.O.....	1	70-Up	111825	11145
680F	Governor (Code # 461) Up to 2800 RPM Range.....	1	70-Up	111680A	11410A
680F	Governor (Code # 462) 3000-3400 RPM Range.....	1	70-Up	111680B	11410B
680F	Governor (Code # 460) 3600-3800 RPM Range.....	1	70-Up	111680	11410
684	Governor Gear Kit.....	1	70-Up	34684B	K34411A
N.I.	Lock Nut, Second Clutch Spring Retainer (Push On).....	4	70-Up	111799	11213
N.I.	Lock Nut, Third Clutch Spring Retainer (Push On).....	4	70-Up	111799	11213
N.I.	Nut, Flex Disc (AT543).....	6	70-Up	101795C	21214
765	Oil Pan, Deep (Even Threaded Inlets).....	1	70-Up	111765	11545A
765	Oil Pan, Deep (Offset Threaded Inlets).....	1	70-Up	111765A	11545
962	Piston, Center Support.....	2	70-Up	111962	11817
N.I.	Plug, Cooling Line Ports (Pkg of 100).....	1	70-Up	M479-1	PL1
N.I.	Plug, Speedo Bore (Pkg of 100).....	1	70-Up	M479-2	PL2
N.I.	Plug, Modulator Bore (Pkg of 100).....	1	70-Up	M479-5	PL5
N.I.	Reduced Modulation Modification Kit (Sonnax).....	1	70-Up	S29537879	N/A
695	Sleeve, Ground (Finished I.D. Bearing Inst.).....	1	70-Up	111695AK	11202
N.I.	Sleeve, Governor (Aluminum) (Aluminum Case) (Use w/ T-9119).....	1	70-Up	T-119A	T-119A
N.I.	Sleeve, Governor (Bronze) (Cast Iron Case).....	1	70-Up	T-119B	T-119B
N.I.	Sleeve Tool, Governor Bore (w/ 2 Sleeves).....	1	70-Up	T-9119	T-9119
695	Spring, Accordion (Stator).....	1	70-Up	111837	N/A



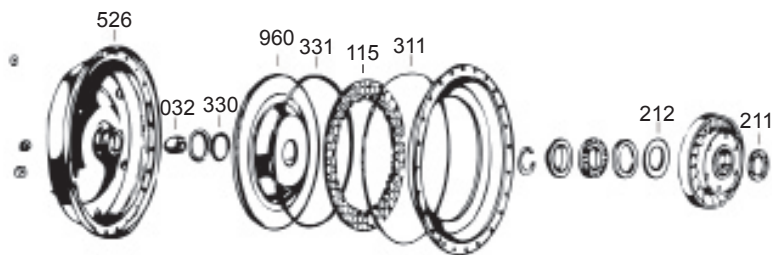


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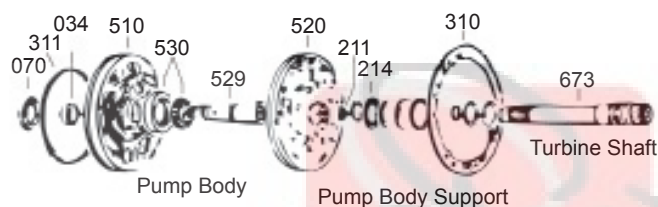
# ALLISON

## MT 640, 643, 644, 647, 650, 653, 654

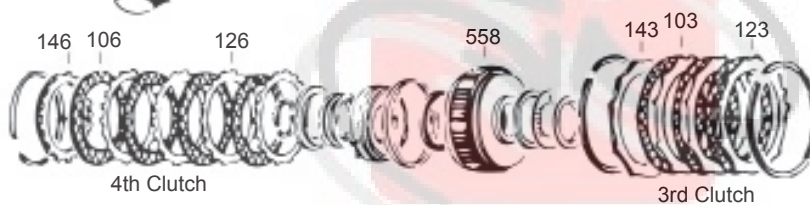
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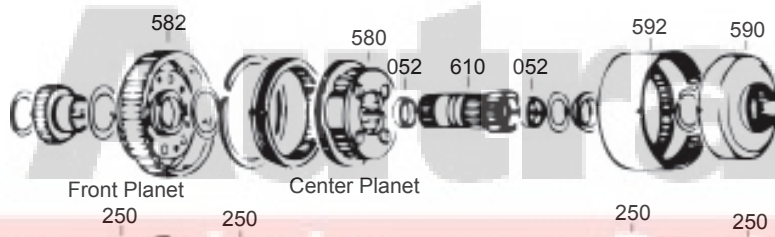
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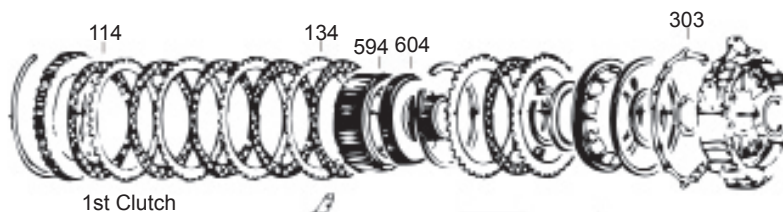
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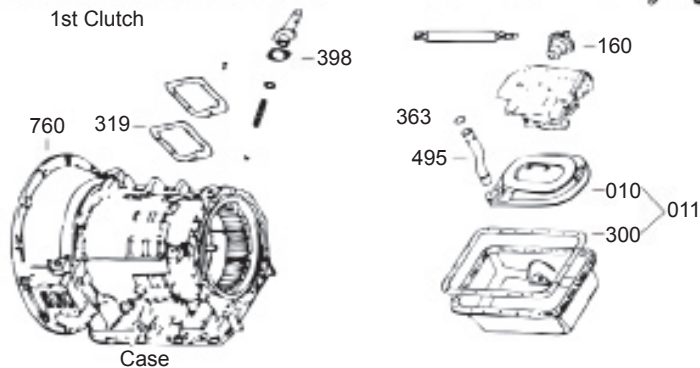
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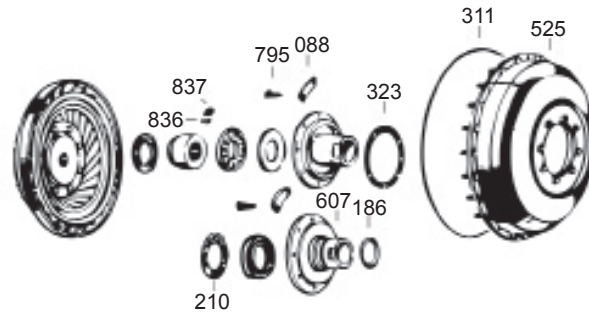
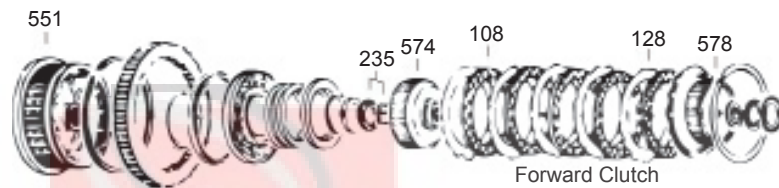
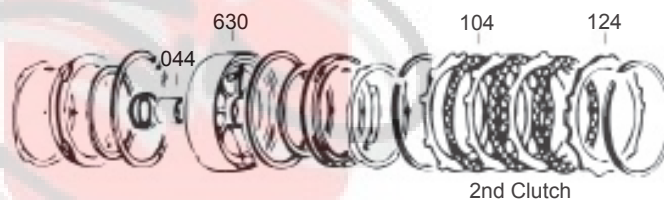
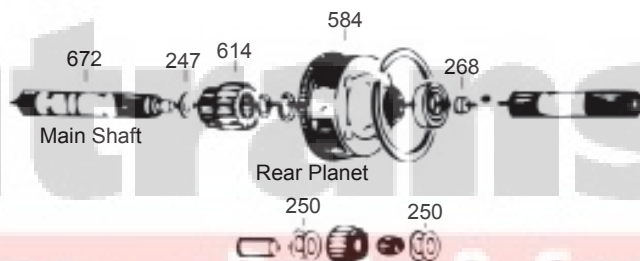
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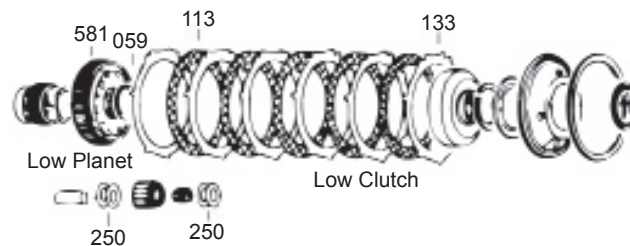
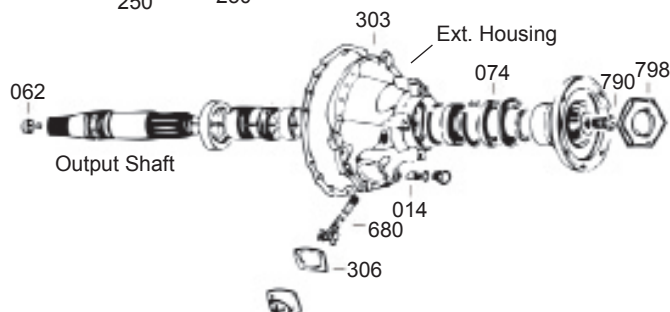
**101**

# ALLISON

## MT 640, 643, 644, 647, 650, 653, 654


**G**

**H**

**I**

**J**

Deluxe Kit	008
Compliance Kit	007
Master Kit	006
Less Steel Kit	004
Overhaul Kit	002
Bushing Kit	030
Washer Kit	200
Bearing Kit	201
Technical Manual	400
Pump Part	507
Valve Body Parts	741
Case Parts	761
Note: Not all items are available for all transmissions	


**K**

**L**
**101**

# ALLISON

## MT 640, 643, 644, 647, 650, 653, 654

### MT 600 Series™ (Medium Duty)

MT 640

MT 643R, 643RM, MTB 643

MT 644, MTB 644

MT 647\*\*, MTB 647\*\*

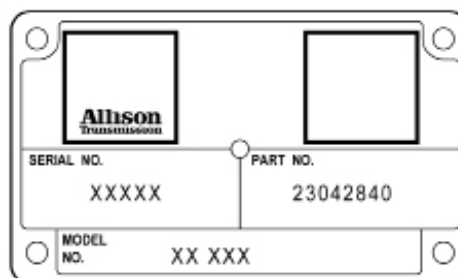
MT 650

MT 653, 653RM, MTB 653

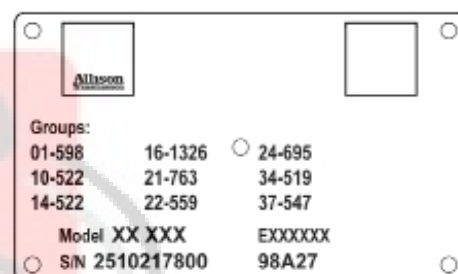
MT 654CR, MTB 654CR

\*\* Indicates models that are unique and special order only.

Type 1



Type 2



### Model Designation Code

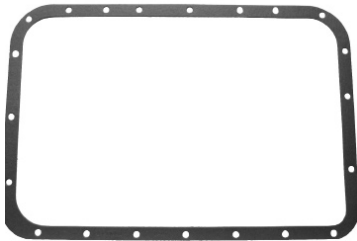
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<b>MT</b>	<b>B</b>	<b>6</b>	<b>4</b>	<b>0</b>	<b>RM</b>	<b>R</b>	
							<b>R</b> Input Retarder
							<b>CR</b> Close Ratio
							<b>RM</b> Remanufactured Transmission
							<b>0</b> Major Modifications
							<b>4</b> 4 Forward Speed Ranges & 1 Reverse
							<b>5</b> 5 Forward Speed Ranges & 1 Reverse
							<b>6</b> Transmission Series 600
							<b>B</b> Integral Output Retarder
							<b>MT</b> Planetary Gear-type Automatic Trans.



# ALLISON

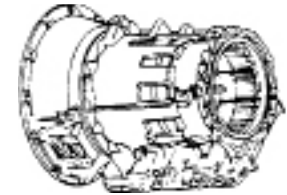
## MT 640, 643, 644, 647, 650, 653, 654



111300



101010



ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>MASTER OVERHAUL KITS (WITH STEELS)</b>					
006L	MT640, 643 (Armstrong® & Vespel Rings).....	1	72-Up	101006	K2100
006L	MT650, 653 (Armstrong® & Vespel Rings).....	1	72-Up	101006A	K2100A
006L	MT644 (Phase 1, Phase 2).....	1	72-Up	101006D	K2100B
006L	MT654 (Phase 1, Phase 2).....	1	72-Up	101006E	K2100D
<b>LESS STEEL KITS</b>					
004L	MT640, 643 (Armstrong® & Vespel Rings).....	1	72-Up	101004	K2100-LS
004L	MT650, 653 (Armstrong® & Vespel Rings).....	1	72-Up	101004A	K2100A-LS
004L	MT644 (Phase 1, Phase 2).....	1	72-Up	101004D	K2100B-LS
004L	MT654 (Phase 1, Phase 2).....	1	72-Up	101004E	K2100D-LS
<b>OVERHAUL KITS (W/ RINGS &amp; SEALS)</b>					
002L	MT640, 643, 650, 653 (Armstrong® & Vespel Rings).....	1	72-Up	101002A	K21900FW
002L	MT644, 654 (Cork & Standard Rings).....	1	72-Up	101002D	K21900B
002L	MT644, 654 (Armstrong® & Vespel Rings).....	1	72-Up	101002H	K21900HW
<b>FILTER KITS</b>					
011F	w/ Cork & Neoprene .....	1	72-Up	101011	FK21800
011F	w/ Armstrong® (Large Hole Grommet) .....	1	72-Up	101011A	FK21800W
011F	w/ Armstrong® (Small Hole Grommet) .....	1	72-Up	101011B	FK21800AW
011F	w/ Armstrong® (5" Pan) (Use w/ Auxiliary Filter Only).....	1	72-Up	101011C	FK21800L
<b>FILTERS</b>					
010F	Paper (Large Hole Grommet) .....	1	72-Up	101010	21800
010F	Paper (Small Hole Grommet) .....	1	72-Up	101010B	21800A
010F	Stainless Steel Wire Mesh (5" Pan) (Use w/ Auxiliary Filter Only).....	1	72-Up	101010C	21800L
013	External Spin on Cartridge.....	1	72-Up	101013	HD-223
014L	Screen, Governor (Up to Serial # 58071) .....	1	72-Up	101014	21712
014L	Screen, Governor (Serial # 58071 & Up).....	1	72-Up	111014	11712
017	Screen, Center Support .....	1	72-Up	101017	21713
N.I.	Plug, Deep Pan Heater Hole .....	1	72-Up	S101010P-6	N/A
<b>BUSHINGS</b>					
030L	Bushing Kit.....	1	72-Up	101030	K21902
034B	Pump (2.443" OD) .....	1	72-Up	101034	21005
034B	Pump (2.530" OD) .....	1	72-Up	101034A	21007
034B	Pump (2.580" OD) .....	1	72-Up	101034B	21008
044I	Center Support .....	1	72-Up	101044	21003
052D	Center Sun Gear (Finish In Place).....	2	72-Up	101052	21002
052D	Center Sun Gear (Unfinished In Place) .....	2	72-Up	101052A	21002X
053	Front Planet Carrier (Finish In Place) .....	1	72-Up	101053	21001
059K	Low Planetary Carrier (ID Must Be Finished In Place) .....	1	72-Up	101059	21004
062L	Rear Output Shaft (Replaces Bearing In Rear Output Shaft) .....	1	72-Up	101062	21006

**ALLISON****MT 640, 643, 644, 647, 650, 653, 654**

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>METAL CLAD SEALS</b>					
070B	Front Pump (3.335" OD) .....	1	72-Up	101070	21200
070B	Front Pump (3.380" OD) (Viton Shielded).....	1	72-Up	101070A	21200B
070B	Front Pump (3.881" OD) (Updated, Brown).....	1	72-Up	101070B	21200A
074L	Extension Housing (3.628" OD).....	1	72-Up	121074	11850
074L	Extension Housing (4.751" OD).....	1	72-Up	101080	21850
072	Selector Shaft .....	1	72-Up	44072	38511
<b>FRICTION PLATES</b>					
Prefix Key: R = Raybestos, W = Wellman					
114E	1st .....	6	72-Up	111106	11104
104I	2nd .....	3-4	72-Up	101106	21104
103C	3rd .....	3	72-Up	101106	21104
106C	4th .....	4-5	72-Up	101108	21103
108H	Forward .....	5-6	72-Up	101108	21103
113K	Low (50 T) (except 654 Phase 1 & 2) .....	6	72-Up	101106	21104
113K	Low (71 T) (654 Phase 1 & 2) .....	7	72-Up	101106A	21101
<b>STEEL PLATES</b>					
134E	1st .....	6	72-Up	101124	21107
124I	2nd .....	3-4	72-Up	101126	21105
123C	3rd .....	3	72-Up	101126	21105
126C	4th .....	4-5	72-Up	101128	21100
128H	Forward .....	5-6	72-Up	101128	21100
133K	Low (8.825" ID) (except 654 Phase 1 & 2) .....	6-7	72-Up	101126	21105
133K	Low (9.198" ID) (654 Phase 1 & 2) .....	8	72-Up	101126B	21102
<b>BACKING PLATES</b>					
Prefix Key: D = OEM, A = Aftermarket New, R = Remanufactured					
143C	2-3 Clutch (.450"- .460") .....	AR	72-Up	101148C	21746
143C	2-3 Clutch (.463"- .473") .....	AR	72-Up	101148A	21718
143C	2-3 Clutch (.476"- .486") .....	AR	72-Up	101148B	21745
146C	4th Clutch .....	1	72-Up	101142	21108
<b>MODULATORS</b>					
160F	Modulator w/ O-Ring (Small Can) .....	1	72-Up	111160	11820A
160F	Modulator w/ O-Ring (Large Can) .....	1	72-Up	111160A	11820
160F	Modulator (Electric Type) .....	1	72-Up	111160B	N/A
<b>SEALING RINGS</b>					
175L	Ring Kit (Complete 8 Rings) .....	1	72-Up	101175	K21901
175L	Ring Kit (Complete 8 Rings) (Vespel) .....	1	72-Up	101175A	K21901V
175L	Ring Kit (Pump Support, Front Vespel) .....	1	72-Up	101175D	K21301V
181	Turbine / Converter (Vespel) .....	1	72-Up	101181V	21302V
<b>THRUST WASHERS</b>					
247J	Washer, Rear Sun Gear (Plastic) .....	1	72-Up	101247	21418
N.I.	Washer, Cover (Coated) .....	1	72-Up	101249A	21154
N.I.	Washer, Drain Plug (Coated) .....	1	72-Up	111202A	11423B
<b>BEARINGS &amp; RACES</b>					
201L	Bearing Kit (Converter Hub Bearing not included) .....	1	72-Up	101201	K21950
211B	Roller Bearing, Front Pump (Ina Brand) .....	1	72-Up	111211N	21223A
211B	Roller Bearing, Front Pump (Torrington) .....	1	72-Up	111211M	21223
214B	Front & Center Support .....	2	72-Up	12214	21782
235H	Forward Clutch .....	2	72-Up	101235	21799

# ALLISON

## MT 640, 643, 644, 647, 650, 653, 654

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>GASKETS &amp; O-RINGS</b>					
268J	Roller Bearing, Output Shaft (640, 643) .....	1	72-Up	101268	21219
300F	Gasket, Pan Gasket (Cork).....	1	72-Up	111300	13540X
300F	Gasket, Pan Gasket (Armstrong®).....	1	72-Up	111300A	13540W
303E	Gasket, Adapter Housing.....	1	72-Up	101303	13171
303E	Gasket, Rear Cover .....	1	72-Up	101303	13171
306L	Gasket, Governor Cover .....	1	72-Up	34306	3914D
306L	Gasket, Governor Cover (Updated).....	1	72-Up	111306	3914LW
319F	Gasket, PTO Cover (Update - Armstrong®) .....	1	72-Up	111319	13158W
363F	O-Ring, Oil Filter Tube .....	1	72-Up	56363A	3435PL
369	O-Ring, Modulator .....	1	72-Up	44369B	3410L
370	O-Ring, Governor Filter & Cooler Fitting.....	1-2	72-Up	34370	13173
372	O-Ring, Center Support (Serial # 100432 & Up) .....	1	72-Up	101372	13172
390	External Reseal Kit, Front Pump .....	1	72-Up	101390	K21900-2
398F	Gasket, Lube Valve Adapter .....	1	72-Up	101398	13166
<b>TECHNICAL MANUALS</b>					
400L	Service Manual (643, 653).....	1	72-Up	101400AM	TM-600M
400L	Service Manual (644, 654).....	1	72-Up	101400BM	TM-644M
400L	Parts Catalog (643, 653).....	1	72-Up	101400AP	TM-600P
400L	Parts Catalog (644, 654).....	1	72-Up	101400BP	TM-644P
<b>HARD PARTS</b>					
Prefix Key: D = OEM, A = Aftermarket New, R = Remanufactured					
<b>PUMPS</b>					
510B	Pump Body w/ .683" Gears (Early 640, 643, 650, 653) (29527499 or 23046636)...	1	72-Up	101510	K21636
510B	Pump Body w/ .683" Gears (Late 640, 643, 650, 653) (29527490 or 23016889)....	1	72-Up	101510A	K21636A
510B	Pump Body w/ .818" Gears (Early 644, 647, 654) (29527509 or 23046638)	1	72-Up	101510B	K21637
510B	Pump Body w/ 1.000" Gears (Late 644, 647, 654) (29527481 or 23017114)	1	72-Up	101510C	K21637A
520B	Pump Support (Early 640, 643, 650, 653) (29515355 or 23015871)....	1	72-Up	101520	21871
520B	Pump Support (Late 640, 643, 650, 653) (29514491 or 23016751).....	1	72-Up	101520A	21751
520B	Pump Support (Early 644, 647, 654) (23015872).....	1	72-Up	101520B	21872
520B	Pump Support (Late 644, 647, 654) (23016763).....	1	72-Up	101520D	21763
529B	Ground Sleeve (640, 650 Early) Silver Single Spline w/o Step .....	1	72-Up	101529	21202
529B	Ground Sleeve (640, 650 Late) Silver Single Spline w/ Step .....	1	72-Up	101529A	21202A
529B	Ground Sleeve (644, 654 Early) Silver Dual Spline w/o Step .....	1	72-Up	101529B	21203
529B	Ground Sleeve (644, 654 Late) Black Dual Spline w/ Step .....	1	72-Up	101529C	21203A
<b>PUMP GEARS</b>					
530B	Pump Gears (.683") (except 644, 654).....	1	72-Up	101530	K21201
530B	Pump Gears (.818") (644, 654).....	1	72-Up	101530A	K21201C
532B	Inner Gear (.683") (except 644, 654).....	1	72-Up	101532A	21201-1
532B	Inner Gear (.683" w/ .060" Oversize OD) (except 644, 654).....	1	72-Up	101532AH	21201-3
532B	Inner Gear (.818") (644, 654).....	1	72-Up	101532B	21201-6
532B	Inner Gear (.818" w/ .060" Oversize OD) (644, 654) .....	1	72-Up	101532BH	21201-8
532B	Inner Gear (1.000") (647).....	1	72-Up	101532C	21201-10
532B	Inner Gear (1.000" w/ .060" Oversize OD) (647) .....	1	72-Up	101532CH	21201-12
534B	Outer Gear (.683") (except 644, 654) .....	1	72-Up	101534A	21201-2
534B	Outer Gear (.683" w/ .060" Oversize OD) (except 644, 654).....	1	72-Up	101534AH	21201-4
534B	Outer Gear (.818") (644, 654).....	1	72-Up	101534B	21201-7
534B	Outer Gear (.818" w/ .060" Oversize OD) (644, 654) .....	1	72-Up	101534BH	21201-9
534B	Outer Gear (1.000") (647).....	1	72-Up	101534C	21201-11
534B	Outer Gear (1.000" w/ .060" Oversize OD) (647) .....	1	72-Up	101534CH	21201-13

**ALLISON****MT 640, 643, 644, 647, 650, 653, 654**

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>DRUMS &amp; CLUTCH HUBS</b>					
551H	Housing, Forward (w/o Shaft) (643, 653).....	1	72-Up	101551-1	21172
558C	Housing, 4th Clutch (643, 653).....	1	72-Up	101558	21825
558C	Housing, 4th Clutch (644, 654).....	1	72-Up	101558A	21257
574H	Hub, Forward Clutch (except 644, 654).....	1	72-Up	101574	21222
578H	Hub, Fourth Clutch Driving (except 644, 654).....	1	72-Up	101578	21221
578H	Hub, Fourth Clutch Driving (644, 654).....	1	72-Up	101578A	21221B
<b>PLANETS &amp; RING GEARS</b>					
<b>Center Planet</b>					
580D	Center Planet.....	1	72-Up	101580	N/A
580D	Repair Kit, Center Planet.....	1	72-Up	101584-7K	K21216
580D	Pins (Planet Gears).....	4	72-Up	101585-3	21216
580D	Needle Rollers.....	72	72-Up	181585-4A	21920
250D	Washer (Bronze).....	8	72-Up	101250A	21415
250D	Washer (Steel).....	8	72-Up	101250B	21416
590D	Ring Gear.....	1	72-Up	101590	N/A
<b>Low Planet</b>					
581K	Low Planet.....	1	72-Up	101581	N/A
581K	Repair Kit, Low Planet (except 644, 654).....	1	72-Up	101584-7A	K21217
581K	Repair Kit, Low Planet (644, 654).....	1	72-Up	101584-7B	K21211A
581K	Pins (Planet Gears) (except 644, 654).....	6	72-Up	111584-3	11216
581K	Pins (Planet Gears) (644, 654).....	4	72-Up	101589-3	21211A
581K	Needle Roller (except 644, 654).....	114	72-Up	111584-4	11920
581K	Needle Roller (644, 654).....	124	72-Up	181585-4A	21920
250K	Washer (Bronze) (except 644, 654).....	12	72-Up	111250A	11416
250K	Washer (Steel) (644, 654).....	8	72-Up	101250D	21424
<b>Front Planet</b>					
582D	Front Planet.....	1	72-Up	101582	RH21565
582D	Repair Kit, Front Planet.....	1	72-Up	101584-7	K21215
582D	Needle Roller, Front Planet.....	120	72-Up	111582-4	11919
582D	Pins, Front Planet.....	6	72-Up	111582-3	11215
582D	Pins, Front Carrier Replacement.....	6	72-Up	101582-3	565P
582D	Washer, Front Planet (Bronze).....	12	72-Up	111582-1A	11413
582D	Washer, Front Planet (Steel).....	12	72-Up	111582-1B	11414
592D	Ring Gear.....	1	72-Up	101595	N/A
<b>Rear Planet</b>					
584J	Rear Planet (640, 643).....	1	72-Up	101584	N/A
584J	Rear Planet (653).....	1	72-Up	101584A	21642
584J	Repair Kit, Rear Planet.....	1	72-Up	101584-7K	K21216
584J	Needle Roller, Rear Planet.....	72	72-Up	181585-4A	21920
584J	Pins, Rear Planet.....	4	72-Up	101585-3	21216
250J	Washer, Rear Planet (Bronze).....	8	72-Up	101250A	21415
250J	Washer, Rear Planet (Steel).....	8	72-Up	101250B	21416
594E	Ring Gear (640, 643).....	1	72-Up	101594	21568
594E	Ring Gear (653).....	1	72-Up	101594A	N/A
604E	Ring Gear Hub (Hardened) (653).....	1	72-Up	101604	21325
<b>SUN GEARS, SHELLS &amp; SUPPORTS</b>					
610D	Sun Gear, Center w/ Bushings Installed.....	1	72-Up	101610	21606
614J	Sun Gear, Rear.....	1	72-Up	101614	21901
630I	Support, Center (w/ Bushing).....	1	72-Up	101630	21940



# ALLISON

## MT 640, 643, 644, 647, 650, 653, 654

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>SHAFTS</b>					
529B	Ground Sleeve (640, 650 Early) Silver Single Spline w/o Step .....	1	72-Up	101529	21202
529B	Ground Sleeve (640, 650 Late) Silver Single Spline w/ Step .....	1	72-Up	101529A	21202A
529B	Ground Sleeve (644, 654 Early) Silver Dual Spline w/o Step .....	1	72-Up	101529B	21203
529B	Ground Sleeve (644, 654 Late) Black Dual Spline w/ Step .....	1	72-Up	101529C	21203A
672J	Main Shaft (643, 653) .....	1	72-Up	101672	21456
672J	Main Shaft (644, 654) .....	1	72-Up	101672A	21456B
673B	Turbine Shaft (except 654) .....	1	72-Up	101673	21785
673B	Turbine Shaft (654) .....	1	72-Up	101673A	21785B
<b>GOVERNORS</b>					
680L	Governor (Code # 461) 2200-2600 RPM Range (643).....	1	72-Up	111680A	11410A
680L	Governor (Code # 463) 3000-3400 RPM Range (643).....	1	72-Up	101680	21410
680L	Governor (Code # 462) 2400-2600 RPM Range (653).....	1	72-Up	111680B	11410B
680L	Governor (Code # 463) 2800 RPM Range (653).....	1	72-Up	101680	21410
680L	Governor (Code # 465) 3000 RPM Range (653).....	1	72-Up	101680A	21410A
680L	Governor (Code # 738) 3200-3800 RPM Range (653) (Bronze Gear) .....	1	72-Up	101680B	21410B
680L	Governor (Code # 739) 3600-3800 RPM Range (653) (Bronze Gear) .....	1	72-Up	101680C	21410C
680L	Governor (Caterpillar Engine w/ Blower) 2600 RPM Range.....	1	72-Up	101680B	21410B
680L	Governor (Caterpillar Engine w/o Blower) 2800 RPM Range.....	1	72-Up	101680C	21410C
684	Kit, Governor Gear (except Bronze) .....	1	72-Up	34684B	K34411A
<b>MISCELLANEOUS COMPONENTS</b>					
783	Bolt, Case To Center Support (Anchor 3") .....	1	72-Up	181783	31220
790L	Bolt, Output Flange .....	1	72-Up	111790	11222
799	Bolt, Pan (25 per bag).....	1	72-Up	101779	N/A
798L	Lock Nut, Self-lock Hex - Rear Output Shaft .....	1	72-Up	101798	21956
799	Lock Nut, Second Clutch Spring Retainer (Push On).....	4	72-Up	111799	11213
799	Lock Nut, Third Clutch Spring Retainer (Push On).....	4	72-Up	111799	11213
765F	Oil Pan, Deep (Ribbed w/ Heater Hole).....	1	72-Up	101765A	N/A
N.I.	Plug, Cooling Line Ports MT600 (Pkg of 100) .....	2	72-Up	M479-3	PL3
483	Plug, Oil Pan Drain Plug .....	1	72-Up	111483	DP-789
N.I.	Plug, Oil Pan Fill Tube MT600 (Pkg of 100) .....	1	72-Up	M479-4	PL4
N.I.	Plug, Speedometer Bore MT600 (Pkg of 100).....	1	72-Up	M479-2	PL2
N.I.	Plug, Modulator Bore MT600 (Pkg of 100) .....	1	72-Up	M479-5	PL5
991F	Shift Shaft (640, 650).....	1	72-Up	101991	N/A
659	Spring & Roller Kit, Converter Stator (10 Springs & Rollers).....	1	72-Up	111659	K11250
414	Switch, Reverse Signal (Backup Light).....	1	72-Up	111414	11610
494	Tube & Dip Stick Assembly, Universal .....	1	72-Up	111494U	11999U
495F	Tube, Oil Filter (Updates Prior To Serial # 58071).....	1	72-Up	101495	21225
<b>CONVERTER COMPONENTS</b>					
209G	Bearing, Converter Hub (640, 650) .....	1	72-Up	101209	21883
211	Bearing, Converter Stator .....	1	72-Up	111211S	11404
795G	Bolt, Torque Converter Hub .....	1	72-Up	M464GE	96-178
032A	Bushing, Converter Cover .....	1	72-Up	101032	21000
525G	Converter / Pump Assembly (Impeller) (643, 653) Ratio TC350.....	1	72-Up	101525A	21596
525G	Converter / Pump Assembly (Impeller) (643, 653) Ratio TC360.....	1	72-Up	101525B	21594
525G	Converter / Pump Assembly (Impeller) (643, 653) Ratio TC370.....	1	72-Up	101525C	21598
526A	Converter Cover .....	1	72-Up	101526	21294
607G	Converter Hub, 1st Design (8 Bolt) (640, 650) Bushing Style .....	1	72-Up	101607B	21206
607G	Converter Hub, 2nd Design (8 Bolt) (640, 650) Bearing Style (w/ bearing) .....	1	72-Up	101607A	21204A
607G	Converter Hub, 2nd Design (8 Bolt) (640, 650) Bearing Style (w/o bearing) .....	1	72-Up	101607	21204
607G	Converter Hub, 3rd Design (8 Bolt) .683" Gear Bushing Style .....	1	72-Up	101607C	21204C
607G	Converter Hub, 4th Design (12 Bolt) (644, 647, 654) Bearing Style.....	1	72-Up	101607E	21204E
607G	Converter Hub, 4th Design (12 Bolt) (644, 647, 654) Bushing Style ....	1	72-Up	101607D	21204D
115A	Friction, Converter Lockup (640, 643, 650, 653) (See next page) .....	1	72-Up	101115	R21106

**ALLISON****MT 640, 643, 644, 647, 650, 653, 654**

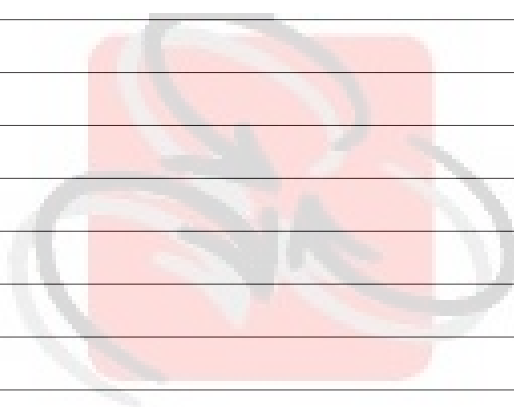
ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>CONVERTER COMPONENTS (Cont.)</b>					
115A	Friction, Converter Lockup (644, 654) (See preceding page)	1	72-Up	181104	W31102
323G	Gasket, Converter Pump Hub (640, 650)	1	72-Up	111323	13150W
323G	Gasket, Converter Pump Hub (644, 654)	1	72-Up	101323	13174
310B	Gasket, Front Pump to Case	1	72-Up	101310	13162
755	Locking Key, Converter Cover (Football Key)	1	72-Up	101755-6	21209
795G	Nut, Converter Cover	24	72-Up	101795A	21139
795	Nut, Flex Plate	6	72-Up	101795C	21214
960A	Piston, Converter Lock-up (640, 650)	1	72-Up	101960T	21845
210G	Race, Converter Hub Bearing (640, 650) (Bearing Style Hub)	1	72-Up	101210	21907
210G	Race, Converter Hub Bearing (640, 650) (Bushing Style Hub)	1	72-Up	101210B	21907A
210G	Race, Converter Stator (643)	1	72-Up	101210A	21226
836G	Roller, Converter Stator	10	72-Up	111836	11211
311B	Seal, Lathe Cut (Front Pump Cover) (644, 654) (Green Stripe)	1	72-Up	101311A	13175
311B	Seal, Lathe Cut (Front Pump Cover) (except 644, 654) (Yellow Stripe)	1	72-Up	101311B	13151
311B	Seal, Lathe Cut (Front Pump) (Green Stripe)	1	72-Up	101311	13160
311A	Seal, Lathe Cut Lockup Clutch (Backing Plate Yellow Stripe)	1	72-Up	101311B	13151
331A	Seal, Lathe Cut Lockup Clutch (Outer) (644, 654)	1	72-Up	101331A	13177
331A	Seal, Lathe Cut Lockup Clutch (Outer) (except 644, 654)	1	72-Up	101331B	13159
330A	Seal, Lockup Clutch (Inner) (644, 654)	1	72-Up	101330A	13176
309	Seal, Washer-Front Pump Bolt	12	72-Up	101309	13161
186G	Sealing Ring, Converter Pump Hub	1	72-Up	101186	21300
212A	Spacer, Turbine (.015" Gold) (except 644, 654)	1	72-Up	111212	11403
212A	Spacer, Turbine (.030" Silver) (644, 654)	1	72-Up	101212A	21403A
212A	Spacer, Turbine (.030" Silver) (except 644, 654)	1	72-Up	111212A	11403A
212A	Spacer, Turbine (.042" Plain) (644, 654)	1	72-Up	101212B	21403B
212A	Spacer, Turbine (.042" Plain) (except 644, 654)	1	72-Up	111212B	11403B
212A	Spacer, Turbine (.060" Black) (644, 654)	1	72-Up	101212C	21403C
212A	Spacer, Turbine (.060" Black) (except 644, 654)	1	72-Up	111212C	11403C
212A	Spacer, Turbine (.075" Copper) (644, 654)	1	72-Up	101212D	21403D
212A	Spacer, Turbine (.075" Copper) (except 644, 654)	1	72-Up	111212D	11403D
837G	Spring, Converter Stator	10	72-Up	111837	11210
088G	Strip Lock, Converter Hub (644, 654)	6	72-Up	101088B	21212
088G	Strip Lock, Converter Hub (except 644, 654)	4	72-Up	101088A	11212
795	Stud, Converter Cover	6	72-Up	101795B	21508
249	Washer, Cover (Coated)	6	72-Up	101249A	21154
249	Washer, Flex Plate	6	72-Up	101249A	21154

**NOTES**

**ALLISON**

**MT 640, 643, 644, 647, 650, 653, 654**

**NOTES**

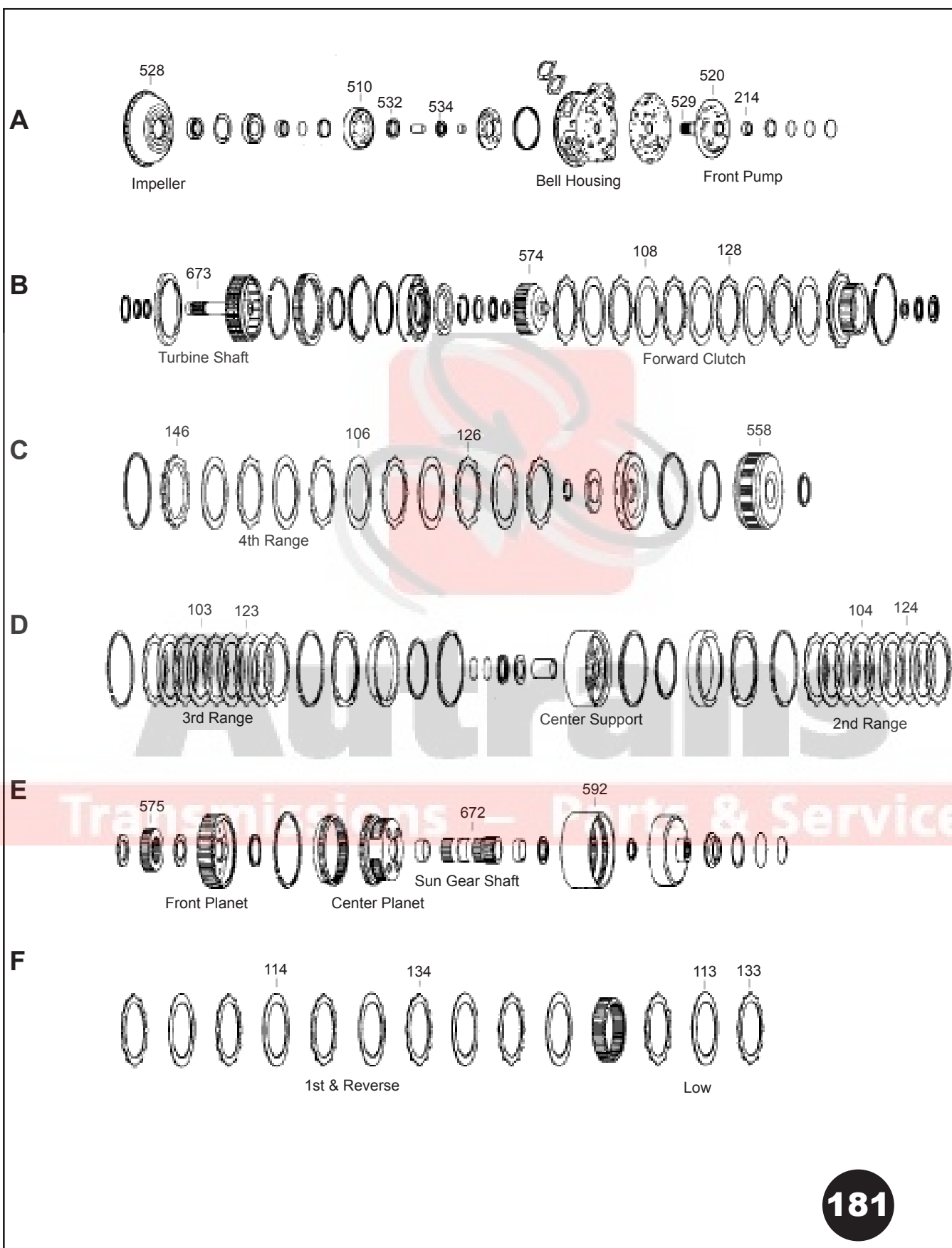


**Autrans**

**Transmissions – Parts & Service**

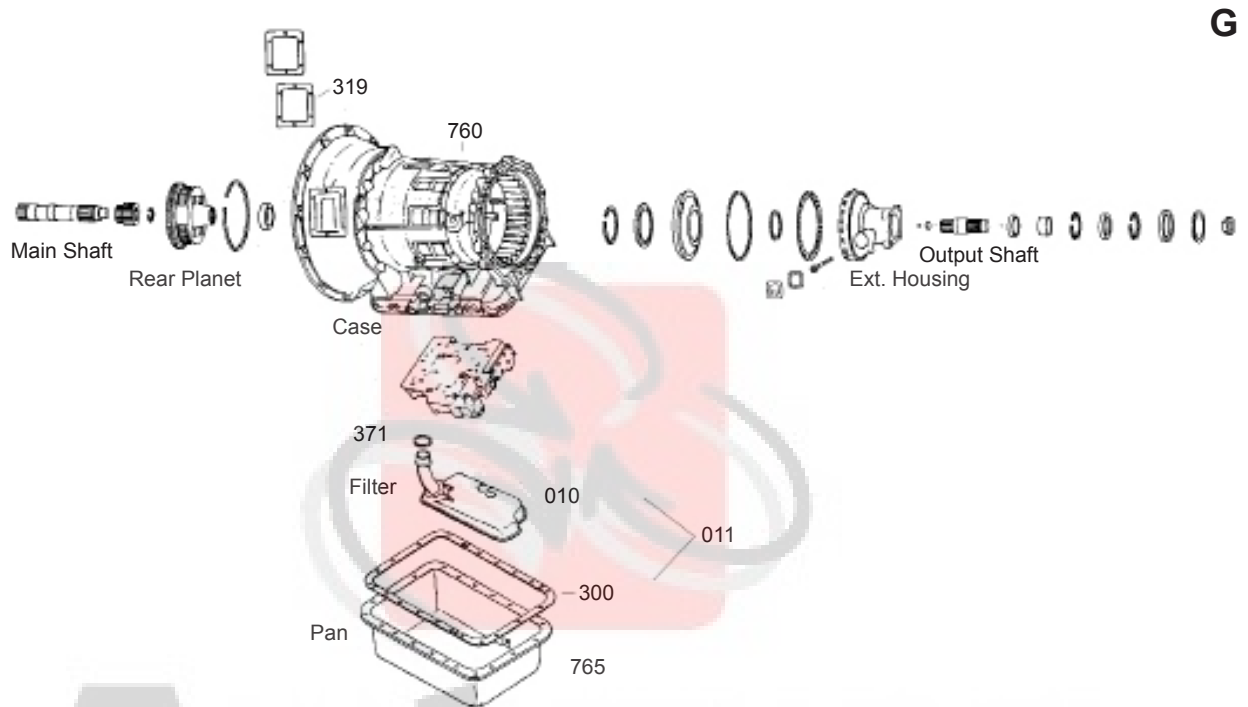
# ALLISON

## HT 740, 747, 750, 754





# ALLISON HT 740, 747, 750, 754



# Autrans

## Transmissions – Parts & Service

Deluxe Kit -----	008
Compliance Kit-----	007
Master Kit -----	006
Less Steel Kit-----	004
Overhaul Kit -----	002
Bushing Kit -----	030
Washer Kit -----	200
Bearing Kit -----	201
Technical Manual -----	400
Pump Part-----	507
Valve Body Parts -----	741
Case Parts -----	761
Note: Not all items are available for all transmissions	

# ALLISON

## HT 740, 747, 750, 754

### HT 740 Series™ (Heavy Duty – Hydraulic)

HT 740, 740D, 740FS, 740RS

HT 747\*\*, 747D\*\*

HT 750CR, 750CRD, 750DR, 750DR-DB, 750R-RS

HT 750DRD, 750DRD-DB, 750DRI

HT 754CR, 754CR-RS, 754CRD

### HT 740 Series™ (Heavy Duty – Electronic)

HT 741, 741RS

HTB 741, 741RS

HT 746\*\*

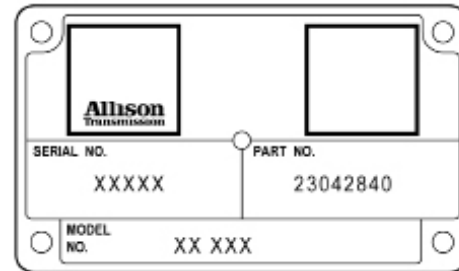
HT 748\*\*, HTB 748\*\*

HT 755CR, 755DR, 755DR-DB, 755DR-RS

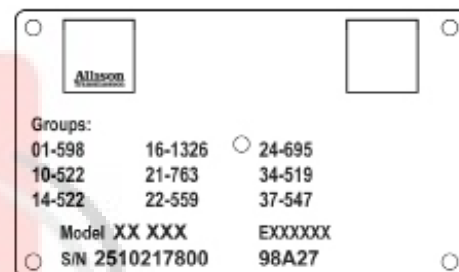
HTB 755CR, 755CR-RS, 755DR, 755DR-RS

\*\* Indicates models that are unique and are special order only

Type 1



Type 2



# Autrans

## Model Designation Code

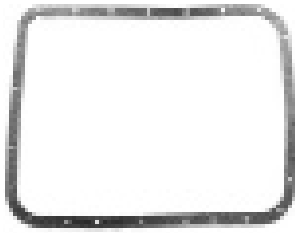
HT B 7 4 0 DR I RS

(Stamped on the Transmission Name Plate)

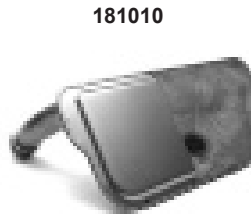
HT	Refuse Special
B	Integral Output Retarder
7	Transmission Series "700"
4	4 Forward Speed Ranges & 1 Reverse
0	Major Modifications
DR	Close Ratio
I	Industrial
FS	Fuel Squeezer
DB	Gear Drive (Drop Box)
RS	Refuse Special

# ALLISON

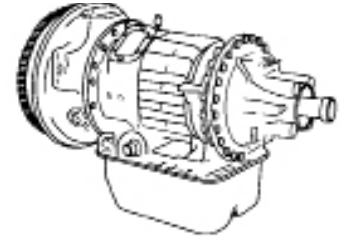
## HT 740, 747, 750, 754



181300



181010



ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>MASTER OVERHAUL KITS (WITH STEELS)</b>					
006G	HT740, 750, 754 (w/o Converter Housing Gasket).....	1	-	181006	K3100
<b>LESS STEEL KITS</b>					
004G	HT740, 750, 754 (w/o Converter Housing Gasket).....	1	-	181004	K3100-LS
<b>OVERHAUL KITS (W/ RINGS &amp; SEALS)</b>					
002G	HT740, 750, 754 (w/o Converter Housing Gasket).....	1	-	181002	K31900X
<b>FILTER KITS</b>					
011G	Filter Kit, 6" Pickup Tube .....	1	-	181011	FK31800
011G	Filter Kit, 7" Pickup Tube.....	1	-	181011A	FK31800A
<b>FILTERS</b>					
010G	6" Pickup Tube.....	1	-	181010	31800
010G	7" Pickup Tube.....	1	-	181010A	31800A
014	Screen, Governor .....	1	-	111014	11712
<b>BUSHINGS</b>					
030G	Bushing Kit.....	1	-	181030	K31902
037	Output Shaft.....	1	-	34037	34002
044	Center Support Housing .....	1	-	181044	31003
052	Sun Gear, Center (Front & Rear).....	2	-	181052	31002
053	Front Planet .....	1	-	181053	31001
057	Sun Gear, Low Clutch.....	1	-	101057	31004
<b>METAL CLAD SEALS</b>					
070	Front Pump .....	1	-	181070	31200
080	Rear Cover .....	1	-	101080	21850
072	Manual Lever .....	1	-	44072	38511
<b>FRICTION PLATES</b>					
Prefix Key: No Prefix = Borg Warner, R = Raybestos, A = Aftermarket					
114F	1st .....	6	-	181106	31104
104D	2nd .....	6	-	181106	31104
103D	3rd .....	4	-	181106	31104
106C	4th .....	5	-	111106	11104
108B	Forward.....	5	-	111106	11104
113F	Low .....	6	-	181106	31104/31101
<b>STEEL PLATES</b>					
134F	1st (.0993" - .1063") Red .....	6	-	181124	31107
134F	1st (.1161" - .1231") .....	6	-	181124A	31108
124D	2nd (.0993" - .1063") Red .....	6	-	181126	31105
124D	2nd (.1161" - .1231") .....	6	-	181120	31106
123D	3rd.....	4	-	181126	31105

# ALLISON

## HT 740, 747, 750, 754

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>STEEL PLATES (cont.)</b>					
126C	4th .....	5	-	181128	31100
128B	Forward .....	5	-	181128	31100
133F	Low (.0993" - .1063") Red .....	6	-	181124	31107
133F	Low (.1161" - .1231") .....	6	-	181124A	31108
<b>BACKING PLATES</b>					
Prefix Key: D = OEM, A = Aftermarket New, R = Remanufactured					
146C	4th Clutch .....	1	-	181142	31715
<b>SEALING RINGS</b>					
175G	Ring Kit (Complete 8 Rings) .....	1	-	181175	K31901
<b>THRUST WASHERS</b>					
226	Center Support .....	1	-	181226	31422
250	Center Planet (Steel) .....	8	-	181250A	31415
250	Center Planet (Bronze) .....	8	-	181250B	31416
250	Rear Planet (Steel) .....	8	-	181250C	31417
250	Rear Planet (Bronze) .....	8	-	181250D	31418
<b>GASKETS &amp; O-RINGS</b>					
300G	Gasket, Pan (except Refuse Service) (Cork) .....	1	-	181300	13740X
300G	Gasket, Pan (except Refuse Service) (Armstrong®) .....	1	-	181300W	13740W
300G	Gasket, Pan (Refuse Service) .....	1	-	181300R	13740R/S
304	Gasket, Rear Cover .....	1	-	181304	13185
310	Seal, Front Pump (Lathe Cut) .....	1	-	181310	13184
311	Seal, Converter Hub (Lathe Cut) .....	1	-	181311A	13519
311	Seal, Converter Pump (Lathe Cut) .....	1	-	101311A	13175
318	Gasket, Front Support (Steel) (1976-Up DRD models) .....	1	-	181318	13196
318	Gasket, Front Support (Steel) (except 1976-Up DRD models) .....	1	-	181318A	13196A
323	Gasket, Converter Pump Hub .....	1	-	181323	13174A
330	Seal, Lockup Inner (Lathe Cut) .....	1	-	101330A	13176
331	Seal, Lockup Outer (Lathe Cut) .....	1	-	101331A	13177
N.I.	Washer, Drain Plug (Coated) .....	1	-	111202A	11423B
<b>TECHNICAL MANUALS</b>					
400G	Service Manual (Hydraulic) .....	1	-	181400M	TM-700M
400G	Parts Catalog (Hydraulic) .....	1	-	181400P	TM-700P
<b>ELECTRICAL PRODUCTS</b>					
421	Solenoid (White) .....	6	-	181421	5A-439
421	Solenoid (Black) .....	3	-	181421A	5A-439A
<b>HARD PARTS</b>					
Prefix Key: D = OEM, A = Aftermarket New, R = Remanufactured					
<b>PUMPS</b>					
500A	Pump Assembly (2 Gear) .....	1	-	181500	31206
500A	Pump Assembly (3 Gear) .....	1	-	181500A	31206A
520A	Stator Assembly (740 Series) .....	1	-	181520	31462
529A	Ground Sleeve (Finished ID w/ Bearing Installed) .....	1	-	181529	31202
214A	Ground Sleeve Bearing .....	1	-	181214	31209



# ALLISON

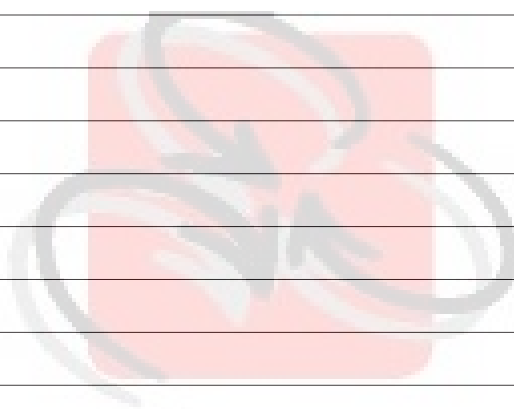
## HT 740, 747, 750, 754

ILL.	DESCRIPTION	QTY.	YEAR	PART NO.	REF. NO.
<b>PUMP COMPONENTS</b>					
520	Stator Repair Kit (Includes 2 Plates & 10 Rivets) .....	1	-	181520-1A	7-SRK
532A	Stator Race (Freewheel Rotor) .....	1	-	181532	31293
532A	Pump Drive Gear (Large) .....	1	-	181532A	31301-3
532A	Pump Drive Gear (Large) Oversized Outer Diameter.....	1	-	181532AH	31301-4
534A	Pump Driven Gear (Small) (w/ Bearing) .....	1	-	101534AK	31301-2
541	Pump Gear Bearing .....	1	-	181541	31210
N.I.	Stator Spring (Requires 10) .....	10	-	101541	31535
N.I.	Stator Roller (Requires 10) .....	10	-	181836	31976
<b>DRUMS &amp; CLUTCH HUBS</b>					
558C	Housing, 4th Clutch .....	1	-	181558A	31556
574B	Hub, Forward .....	1	-	181574	31021
575E	Hub, Direct (Drive) .....	1	-	181575	31605
578B	Hub, 4th Clutch (Housing) (5 Pad) .....	1	-	181578A	31486
578B	Hub, 4th Clutch (Housing) (10 Pad) .....	1	-	181578B	31485A
<b>PLANETS &amp; RING GEARS</b>					
592E	Ring Gear, Front Planet .....	1	-	181592	31327
N.I.	Caged Bearing, Front Planet (Requires 6) .....	6	-	101238	31920
N.I.	Caged Bearing, Center Planet (Requires 8) .....	8	-	181249	31921
N.I.	Caged Bearing, Rear Planet (Requires 6) .....	6	-	181251	31922
N.I.	Pins, Front Planet (Requires 6) .....	6	-	111584-3	11216
N.I.	Pins, Center Planet (Requires 4) .....	4	-	181585-3A	31777
N.I.	Pins, Rear Planet (Requires 4) (Use in Planet 6835628 - HT740) .....	4	-	181584-3A	31216
N.I.	Pins, Rear Planet (Requires 4) (Use in Planet 6837501 - HT750) .....	4	-	181584-3B	31216A
N.I.	Flange, Front Planet (w/ 6 Pins) .....	1	-	181582-8	RF31580
N.I.	Flange Pins, Front Planet .....	6	-	181582-3	31580P
<b>SHAFTS</b>					
529A	Ground Sleeve (Finished ID w/ Bearing Installed) .....	1	-	181529	31202
672E	Main Shaft (HT 740) .....	1	-	181672	31684
672E	Main Shaft (HT 750) .....	1	-	181672A	31684A
673B	Turbine Shaft .....	1	-	181673	31785
<b>GOVERNORS</b>					
680	Governor (Code # 461) .....	1	-	111680A	11410A
680	Governor (Code # 462) .....	1	-	111680B	11410B
680	Governor (Code # 463) .....	1	-	101680	21410
N.I.	Kit, Governor Gear (Exc Bronze) .....	1	-	34684B	K34411A
<b>MISCELLANEOUS COMPONENTS</b>					
N.I.	Bolts, Pan .....	1	-	101779	N/A
N.I.	Converter Locking Key .....	1	-	101755-6	21209
117	Converter Lockup Clutch (Not in kits) .....	1	-	181104	31102
N.I.	Converter Backing Plate (2 Key) (Not in kits) .....	1	-	181142A	31957
N.I.	Dip Stick & Tube .....	1	-	111494U	11999U
N.I.	Nut, Output Shaft (Rear) (Self Lock Hex) .....	1	-	101798	21956
765G	Pan, Transmission .....	1	-	181765A	N/A
N.I.	Piston, Lockup .....	1	-	181960T	31808
N.I.	Speedometer Drive Gear .....	1	-	181847	31455
N.I.	Spring & Roller Kit, Converter .....	1	-	181654	K31960

# ALLISON

## HT 740, 747, 750, 754

### NOTES



# Autrans

Transmissions – Parts & Service

# ALLISON

## MANUALS, PARTS CATALOGS, COOLERS, PLUGS

DESCRIPTION		PART NO.	REF. NO.	
TECHNICAL MANUALS				
LT 1000, 2000, 2400.....		121400	15Y01	
SERVICE MANUALS				
AT 540 Series .....		111400M	TM-540M	
MT 600 Series (MT 600, 643, 650, 653) .....		101400AM	TM-600M	
MT 600 Series (MT 644, 647, 654) .....		101400BM	TM-644M	
HT 700 Series (Hydraulic) .....		181400M	TM-700M	
LT 1000 Series .....		121400M	TM-1000M	
MD 3000 Series .....		131400M	TM-3060M	
HD 4000 Series .....		141400M	TM-4560M	
PARTS CATALOGS				
AT 540 Series.....		111400P	TM-540P	
MT 600 Series (MT 600, 643, 650, 653) .....		101400AP	TM-600P	
MT 600 Series (MT 644, 647, 654) .....		101400BP	TM-644P	
HT 700 Series (Hydraulic) .....		181400P	TM-700P	
LT 1000 Series .....		121400P	TM-1000P	
MD 3000 Series .....		131400P	TM-3060P	
HD 4000 Series .....		141400P	TM-4560P	
TROUBLESHOOTING MANUALS				
LT 1000 (00-05) (except Gen4).....		121400T	TM-1000T	
LT 1000 (06-Up) (Gen4).....		121400TA	N/A	
MD 3000 & HD 4000 (92-05) (TID2) .....		131400T	TM-3060T	
MD 3000 & HD 4000 (92-05) (TID3) .....		131400TA	TM-3061T	
MD 3000 & HD 4000 (06-Up) (Gen4) .....		131400TB	N/A	
GPM	DESCRIPTION	FITTING SIZE	PART NO.	REF. NO.
COOLERS				
6-24	35,200 BTU / HR *.....12" X 24" X 1.5".....	3/4"	OC-1260	K1260
9-36	54,300 BTU / HR *.....18" X 24" X 1.5".....	3/4"	OC-1290	K1290
5-20	59,730 BTU / HR *.....20" X 24" X 1.5" (Two Pass Coil) .....	3/4"	OC-1299	K1299
* BTU / HR Rating per Hayden Standard 100% FITD 1.7 GPM/Tube @ 2500 FPM				
ALLISON SHIPPING PLUGS				
Cooling Line Ports (AT 545) .....		M479-1	PL1	
Cooling Line Ports (MT 600) .....		M479-3	PL3	
Cooling Line & Filter Ports (HT 700) .....		M479-6	PL6	
Speedometer Bore (AT 545, MT 600) .....		M479-2	PL2	
Oil Pan Fill Tube Flange (MT 600) .....		M479-4	PL4	
Modulator Bore (AT 545, MT 600, HT 700) .....		M479-5	PL5	
Oil Filter Port, Retarder (HT 700) .....		M479-7	PL7	



M479-1

M479-2

M479-3

M479-4

M479-5

M479-6

M479-7

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# ALLISON LEGACY TRANSTAR NUMBERS

Legacy #	Transtar #	Legacy #	Transtar #	Legacy #	Transtar #	Legacy #	Transtar #
5A-187	74418E	11213	111799	11410A	A111680A	11769	U111553
5A-187	D74418E	11215	111582-3	11410A	D111680A	11769A	111553A
5A-192	74418EA	11216	111584-3	11410A	U111680A	11800	111010B
5A-192	A74418EA	11221	101211	11410B	111680B	11800A	111010D
5A-192	D74418EA	11222	111790	11410B	D111680B	11800A	S111010D
5A-192	T74418EA	11225	111674	11411	111241	11817	111962
5A-198	121418	11225	D111674	11411A	111241A	11817	D111962
5A-198	D121418	11225	R111674	11412	111242	11817	R111962
5A-199	121418A	11225	U111674	11413	111582-1A	11817	U111962
5A-199	D121418A	11225A	111674A	11414	111582-1B	11820	111160A
5A-439	181421	11226	111672	11415	111238	11820	D111160A
5A-439A	181421A	11226	A111672	11416	111250A	11820A	111160
7-SRK	181520-1A	11226	D111672	11417	111250B	11820A	D111160
15A-199	121410	11226	U111672	11418	111250C	11850	121074
15A-199A	121410A	11226A	111672C	11418A	111244	11875	111129
15A-199A	D121410A	11226B	111672A	11423	111202	11919	111582-4
15A-199B	121410B	11226B	A111672A	11423	A111202	11920	111584-4
15A-199B	D121410B	11226B	D111672A	11423	D111202	11921	111520
15D-176	14411A	11226B	U111672A	11423B	111202A	11921	R111520
20A-199	121438	11227	111610	11500BK	101203K	11921B	111520A
35A-114K	74446K	11227	U111610	11503BK	111231K	11921B	D111520A
35A-114K	A74446K	11227B	111610B	11545	111765A	11921B	R111520A
35A-199	121446	11228	111614	11545	A111765A	11939	111673
35A-199	D121446	11228	A111614	11545	D111765A	11939B	111673B
35A-199A	121446A	11228	D111614	11545	U111765A	11999U	111494U
35A-199A	D121446A	11228	U111614	11545A	111765	13150W	111323
96-178	M464GE	11228A	111614A	11545A	A111765	13151	101311B
96-178	SM464GE	11228A	A111614A	11545A	D111765	13151	111311
96-501	121996	11228A	D111614A	11545A	U111765	13152	111311
96-501	D121996	11228A	U111614A	11546	111794B	13153	111310
11000	111044	11229	111630	11547	111794W	13158W	111319
11000A	111044A	11229	D111630	11548	111794	13159	101331B
11001	111053	11229	R111630	11610	111414	13160	101311
11002	111062	11229A	111630A	11634	111574	13161	101309
11002A	111062A	11229A	D111630A	11634	A111574	13162	101310
11005	111034B	11229A	R111630A	11634	D111574	13166	101398
11007	111037	11229A	U111630A	11634	U111574	13171	101303
11103	111104	11232	111612	11634A	111574A	13172	101372
11103	A111104	11232A	111612A	11634A	A111574A	13173	34370
11103	R111104	11298	111554	11634A	D111574A	13174	101323
11103	W111104	11298	D111554	11634A	U111574A	13174A	181323
11104	111106	11298	Q111554	11676	111580	13175	101311A
11104	R111106	11298	U111554	11676	D111580	13176	101330A
11104	W111106	11298B	111554A	11676	U111580	13177	101331A
11105	111126	11403	111212	11712	111014	13184	181310
11106	111108	11403A	111212A	11719	111584	13185	181304
11106	R111108	11403B	111212B	11719	D111584	13196	181318
11106	W111108	11403C	111212C	11719	U111584	13196A	181318A
11107	111128	11403D	111212D	11732	111578	13200R	121300
11145	111825	11404	111211S	11732	D111578	13268A	44309
11145	A111825	11407	111211A	11732	U111578	13519	181311A
11145	D111825	11407B	111211C	11732A	111578A	13540W	111300A
11145	Q111825	11407C	111211D	11732A	D111578A	13540W	S111300A
11145	U111825	11407D	111211E	11732A	U111578A	13540X	111300
11202	111695AK	11407E	111211F	11768	111582	13540X	111300F
11210	111837	11410	111680	11768	D111582	13740R/S	181300R
11211	111836	11410	U111680	11768	U111582	13740W	181300W
11212	101088A	11410A	111680A	11769	111553	13740X	181300

# ALLISON

## LEGACY TRANSTAR NUMBERS

Legacy #	Transtar #	Legacy #	Transtar #	Legacy #	Transtar #	Legacy #	Transtar #
13924	A76741A-5	15972B	121678A	21203A	A101449C	21424	101250D
13924A	76741-5	15972B	D121678A	21204	101607	21456	101672
13924A	A76741-5	15972B	U121678A	21204A	101607A	21456	A101672
13924A	S76741-5	15Y01	121400	21204C	101607C	21456	D101672
14802	121013	21000	101032	21204C	S101607C	21456	U101672
15005	121034	21001	101053	21204D	101607D	21456B	101672A
15100	121108	21002	101052	21204D	S101607D	21456B	U101672A
15100	A121108	21002X	101052A	21204E	101607E	21508	101795B
15100	R121108	21003	101044	21204E	S101607E	21568	101594
15101	121100	21004	101059	21204F	101607F	21568	D101594
15101	A121100	21005	101034	21204F	S101607F	21568	U101594
15101	R121100	21006	101062	21206	101607B	21594	101525B
15102	121104	21007	101034A	21209	101755-6	21594	Q101525B
15102	A121104	21008	101034B	21211A	101589-3	21596	101525A
15102	R121104	21100	101128	21212	101088B	21596	Q101525A
15103	121114	21101	101106A	21214	101795C	21598	101525C
15103	A121114	21101	R101106A	21216	101585-3	21606	101610
15103	R121114	21101	W101106A	21219	101268	21606	A101610
15105	121128	21102	101126B	21221	101578	21606	D101610
15106	121120	21103	101108	21221	A101578	21606	U101610
15107	121124	21103	A101108	21221	D101578	21642	101584A
15108	121134	21103	R101108	21221	U101578	21642	D101584A
15200	121070A	21103	W101108	21221B	101578A	21642	U101584A
15528	121962	21104	101106	21221B	A101578A	21712	101014
15528	D121962	21104	R101106	21221B	U101578A	21713	101017
15530	121964B	21104	W101106	21222	101574	21718	101148A
15530	D121964B	21105	101126	21222	D101574	21718	U101148A
15531	121960B	21107	101124	21222	S101574	21745	101148B
15531	D121960B	21108	101142	21222	U101574	21745	U101148B
15800	121010	21108	D101142	21223	111211M	21746	101148C
15800A	121010A	21108	U101142	21223A	111211N	21746	U101148C
15850	121074	21139	101795A	21225	101495	21751	101520A
15884	121741S-3	21154	101249A	21225A	111495B	21751	D101520A
15884	S121741S-3	21172	101551-1	21226	101210A	21751	R101520A
15886	121741C-2	21172	U101551-1	21257	101558A	21751	U101520A
15886	S121741C-2	21200	101070	21257	D101558A	21763	101520D
15888	121741H-1	21200A	101070B	21257	U101558A	21763	U101520D
15888	S121741H-1	21200B	101070A	21294	101526	21782	12214
15920	121510K	21201-1	101532A	21294	C101526	21782	D12214
15920	D121510K	21201-10	101532C	21300	101186	21785	101673
15922	121544	21201-11	101534C	21302V	101181V	21785	A101673
15922	D121544	21201-12	101532CH	21325	101604	21785	U101673
15930	121670	21201-13	101534CH	21325	D101604	21785B	101673A
15930	D121670	21201-2	101534A	21325	U101604	21799	101235
15950	121554	21201-3	101532AH	21403A	101212A	21800	101010
15955	121572	21201-4	101534AH	21403B	101212B	21800	A101010
15955	U121572	21201-6	101532B	21403C	101212C	21800	S101010
15962	121580	21201-7	101534B	21403D	101212D	21800A	101010B
15962	D121580	21201-8	101532BH	21410	101680	21800L	101010C
15964	121582	21201-9	101534BH	21410	D101680	21825	101558
15964	D121582	21202	101449	21410A	101680A	21825	D101558
15966	121584	21202	A101449	21410A	S101680A	21825	U101558
15966	D121584	21202A	101449A	21410B	101680B	21845	101960T
15970	121674	21202A	A101449A	21410B	S101680B	21850	101080
15970	D121674	21202A	D101449A	21410C	101680C	21871	101520
15972	121678	21203	101449B	21415	101250A	21871	D101520
15972	D121678	21203	A101449B	21416	101250B	21871	Q101520
15972	U121678	21203A	101449C	21418	101247	21871	R101520

# ALLISON LEGACY TRANSTAR NUMBERS

Legacy #	Transtar #	Legacy #	Transtar #	Legacy #	Transtar #	Legacy #	Transtar #
21871	U101520	31486	181578A	FK34661SW	111011	K21900FW	101002A
21872	101520B	31535	101541	FK34661SW	A111011	K21900HW	101002H
21872	U101520B	31556	181558A	HD-223	101013	K21901	101175
21883	101209	31580P	181582-3	K1100	111006A	K21901V	101175A
21901	101614	31605	181575	K1100A	111006B	K21902	101030
21901	A101614	31684	181672	K1100A-LS	111004B	K21950	101201
21901	D101614	31684A	181672A	K1100-LS	111004A	K3100	181006
21901	U101614	31715	181142	K11201	111530	K3100-LS	181004
21907	101210	31715	U181142	K11215	111582-7K	K31900X	181002
21907A	101210B	31777	181585-3A	K11216	111584-7K	K31901	181175
21920	181585-4A	31785	181673	K11250	111659	K31902	181030
21940	101630	31800	181010	K11250	S111659	K31960	181654
21940	D101630	31800A	181010A	K11900	111002	K31960	S181654
21940	U101630	31808	181960T	K11900	111002F	K34411A	34684B
21956	101798	31920	101238	K11900-2	111390	K34411A	A34684B
31001	181053	31921	181249	K11900A	111002B	P15990	121740-1
31002	181052	31922	181251	K11900W	111002A	P15990	P121740-1
31003	181044	31957	181142A	K11901	111175	P15990A	121740-2
31004	101057	31976	181836	K11902	111030	P15990A	P121740-2
31021	181574	34002	34037	K11902A	111030A	PF-897	111013
31073	181584	3410L	44369B	K1500	121006A	PL1	M479-1
31100	181128	34200C	111510	K1500-LS	121004A	PL2	M479-2
31100	S181128	34200C	R111510	K15101Z	121100K	PL3	M479-3
31102	181104	34200CN	A34510	K15882	121507A-3	PL4	M479-4
31102	W181104	34200D	111510A	K15882	S121507A-3	PL5	M479-5
31104	181106	34200D	D111510A	K15888	121507K	RF31580	181582-8
31104	R181106	34200D	R111510A	K15888	T121507K	RH21565	101582
31104	W181106	34301	34235	K15888A	121507AK	RH21565	A101582
31105	181126	34305C	34126A	K15888A	T121507AK	RH21565	D101582
31105	S181126	3435PL	56363A	K15900	121002A	RH21565	U101582
31106	181120	34661S	34010B	K15905	121030	TM-1000M	121400M
31106	S181120	34661S	A34010B	K15908	T121165	TM-1000P	121400P
31107	181124	3547L	12368A	K15908B	T121167	TM-1000T	121400T
31107	S181124	38151A	44070B	K2100	101006	TM-600M	101400AM
31108	181124A	38151V	44070	K2100A	101006A	TM-600P	101400AP
31108	S181124A	38511	44072	K2100A-LS	101004A	TM-644M	101400BM
31200	181070	3877L	44311	K2100B	101006D	TM-644P	101400BP
31202	181695AK	3914D	34306	K2100B-LS	101004D	TM-700M	181400M
31206	181500	3914LW	111306	K2100D	101006E	TM-700P	181400P
31206A	181500A	565P	101582-3	K2100D-LS	101004E	UDK545-1	S111765C
31209	181214	8005	44034	K2100-LS	101004		
31210	181541	DP-789	111483	K21201	101530		
31216	181584-3A	DP-789	A111483	K21201C	101530A		
31216A	181584-3B	DP-789	D111483	K21211A	101584-7B		
31220	181783	FK11800	111011B	K21215	101584-7		
31293	181532	FK11800A	111011D	K21216	101584-7K		
31301-2	101534AK	FK11800A	A111011D	K21217	101584-7A		
31301-3	181532A	FK11800AW	111011E	K21301V	101175D		
31301-4	181532AH	FK11800W	111011C	K21636	101510		
31327	181592	FK15800	121011	K21636	D101510		
31415	181250A	FK15800A	121011A	K21636	R101510		
31416	181250B	FK21800	101011	K21636A	101510A		
31417	181250C	FK21800	A101011	K21636A	D101510A		
31418	181250D	FK21800AW	101011B	K21636A	R101510A		
31422	181226	FK21800L	101011C	K21637	101510B		
31455	181847	FK21800W	101011A	K21637A	101510C		
31462	181520	FK31800	181011	K21900-2	101390		
31485A	181578B	FK31800A	181011A	K21900B	101002D		

# ALLISON

## OEM INTERCHANGE

OEM #	Transtar #	OEM #	Transtar #	OEM #	Transtar #	OEM #	Transtar #
148409	181541K	6834221	A101578	6837719	U111585	6884259	101002D
148415	101211	6834222	D101574	6837976	181836	6884270	111011B
190139	101795A	6834309	111582-3	6838233	TS37233	6884872	101398
1261968	M464GE	6834327	TS31327	6838298	Q111554	6884902	111614
3039092	111160A	6834333	191550	6838417	TS31777	6884902	U111614
3829139	111794	6834453	TS31453	6838418	TS31778	6885145	A111825
3909063	111799	6834486	181578A	6838419	181584-2	6885145	Q111825
5222493	101044	6834488	181126	6838640	TS37640	6885213	A101991
6751723	191287	6834503	101052	6839021	181574	6885423	111300
6752556	111790W	6834503	101052A	6839163	101181	6885570	111680A
6756782	101032	6834583	101888	6839375	101250A	6885570	A111680A
6758036	101331B	6834662	181584-3A	6839376	111250A	6885571	111680B
6758740	101331A	6834679	181128	6839508	101795B	6885572	101680
6759971	111323	6834684	181672	6839511	181250B	68880917	111034B
6761244	101372	6834720	181120	6839512	181250D	8616052	111178
6762127	101363	6834749	181500	6839514	111582-1A	8622947	111062
6768446	191108	6834817	R111962	6839945	181011	8622947	111062A
6769326	191128A	6834888	191671-3	6839962-3	101530A	8623101	34335
6769631	101088A	6834908	101309	6839976	101212	8623102	34336
6770492	101330A	6834915	181585-4A	6839977	101212A	8623121	34334C
6770820	101363A	6834979	101534AK	6839978	101212B	8626281	101309
6770845	101960T	6835073	191584	6839979	101212C	8626281	44309
6771084	181532A	6835182	181585-3A	6839980	101212D	8641300	44070
6771084	181532AH	6835183	191614	6880019	101589-3	8658110	44369B
6771144	101798	6835322	181053	6880389	101311A	8683187	D74418E
6771366	101323	6835385	101053	6880436	TS31436	9414211	111231K
6772293	181532	6835398	101059	6880847	TS37847	9418483	101268
6772462	181520	6835455	181847	6880899	101088B	9422966	181249
6772552	101755-6	6835567	101585-3	6880901	101323	9423442	181251
6772664D	M479-7	6835568	U101551-1	6880901	181323	9426919	111582-4
6772665D	M479-6	6835568	U101594	6880912	181318	9426920	111584-4
6773311	101080	6835580	181582-8	6880952	191607A	9429005	181541
6774323	111319	6835605	181575	6880962	TS37962	9429635	101238
6774968	111836	6835642	U101584A	6880996	191544	9438017	111211M
6775657	111659	6835768	R111583	6881028	191678	9438017	111211N
6778050	111074	6835936	111610	6881051	191530A	9439704	191299A
6778050	121074	6835936	U111610	6881052	TS31301-6	9441863	181214
6778383	TS37383	6835937	R111674	6881466	111680	23010122	191108
6830187	101186	6835939	111673	6881466	U111680	23010439	R181106
6831620	TS11407	6836272	34037	6881471	101680A	23010610	44072
6831621	111211B	6836404	181673	6881926	101034	23010654	101017
6831622	111211C	6836518	34126A	6882565	101582	23010915	M464GE
6831623	111211D	6837034	191606	6882687	101014	23011446	181695A
6831624	111211E	6837203	101607B	6882689	34370	23011456	111333
6831625	111211F	6837206	101210A	6882736	101680C	23011457	111338
6831634	111574	6837255	181310	6882737	101680B	23011471	101332
6831641	111126	6837288	101070	6882804	101584-2	23011474	111339
6831658	111241	6837429	111212	6883005	181044	23011475	111332
6831673	111238	6837430	111212A	6883007	101057	23011670	111306
6831676	U111580	6837431	111212B	6883031	101334	23011670	34306
6831679	111584-3	6837432	111212C	6883033	101335	23011779	U101760
6831680	111250B	6837433	111212D	6883035	101333	23011825	U101558
6831692	111250C	6837442	101303	6883044	101010	23011924	101044
6831697	111250C	6837460D	M479-1	6883044	A101010	23012438	111002
6831705	111128	6837478	181584-3B	6883045	101495	23012575	UDK-545
6833981	101331C	6837629	181250C	6883901	A101614	23012785	D101673
6833991	111582-1B	6837630	181250A	6883935	TS31225	23012921	181541
6833999	101178	6837690	191128	6883938	A34684B	23012990	111044



# ALLISON

## OEM INTERCHANGE

OEM #	Transtar #	OEM #	Transtar #	OEM #	Transtar #	OEM #	Transtar #
23013015	R111630	23016763	U101520D	23045099	101303	29501358	111765
23013114	181371	23016859	101062	23045247	111014	29501424	TS14110
23013262	34335	23016859	101268	23045247	111016	29501499	111584-4
23013398	101783	23016866	111211S	23045307	A101614	29501543	131672A
23013451	TS11412	23016947	181070	23045328	111672	29502295	111010B
23013454	34235	23016957	181142A	23045328	D111672	29502295	111011C
23013456	A101672	23017114	101510C	23045328	U111672	29502295	A111011
23013474	111672	23017114	TSK21637A	23045343	181783	29502302	101011A
23013624	181010	23017172	U101551-1	23045382	A34684B	29503065D	M479-2
23013625	181010A	23017257	U101558	23045519	181311A	29503283	131302
23013841	111783W	23017257	U101558A	23045554	111126	29503587	111211M
23013906	101607	23017264	101142	23045556	101070A	29503665	111414
23013906	101607A	23017367	44369B	23045588	131108	29503808	181960T
23013907	101210	23017443	181578A	23045606	101052	29503987	111211M
23013926	191630	23017446	101607E	23045870	101695E	29503987	111211N
23013936	101181	23017521	101495	23045906	111765A	29505505	101250A
23014020	111584-4	23017521	111495B	23046074	R111583	29505562	181010
23014094	111783W	23017523	111765A	23046108	R101115	29505563	181010A
23014159	111790	23017610	A101991	23046142	U101584A	29505563	181011A
23014239	191300	23017699	U101672A	23046152	101034B	29505633	141672B
23014304	111695AK	23017763	111142	23046153	101034A	29505634	141672A
23014306	A101449B	23018338	A101672	23046154	101249A	29505789	111483
23014441	101175B	23018535	101541	23046154	101795C	29505859	141070
23014462	101249A	23018596	Q101525A	23046294	101526	29505875	111129
23014462	101795C	23018596	Q101525B	23046344	101310	29506008	111494U
23014527	A101449	23018598	Q101525C	23046556	181558A	29506041	181052
23014542	M464GE	23018625	111306	23046556	181578A	29506042	TS31225
23014632	101175D	23018806	44034	23046598	111179	29506145	111553A
23014632	101176	23018811	R34500	23046636	R101510	29506145	111574A
23015392	101532A	23018948	U101630	23046638	101510B	29506146	111241A
23015393	101532A	23018960	101250B	23046638	101607E	29506147	111244
23015402	101534A	23018961	101250D	23046658	181318A	29506149	111614A
23015404	101534A	23019201	101011	23046718	U101148A	29506151	111612A
23015617	101176	23019222	101673A	23046745	U101148B	29506158	111674A
23015732	U111578	23019653	101181V	23046746	U101148C	29506325	D101604
23015799	101235	23019782	D12214	23046915D	M479-5	29506392	111011E
23015807	34037	23019827	181002	23047199	181695AK	29506392	34010B
23015871	U101520	23040476	A101449A	23047365	111250A	29506468	111044A
23015872	U101520B	23040890	101798	23047365	111250B	29506485	181578A
23015880	34334C	23041261	101584-2	23047771	181124	29506678	181532A
23015883	111310	23041376	131071	23047772	181124A	29507140	101607C
23016347	101311	23041616	191108A	23048030	101209	29507528	131070
23016559	44311	23041786	R181106	23048272	111160A	29507673	A101449C
23016564	101311B	23041786	W181106	23048511	44452C	29507674	A101449B
23016600	111311	23042197	R111104	23048511	W181104	29507909	111202
23016606	101124	23042197	W111104	23048628	R131100	29507909	111202A
23016608	101126	23042198	R111108	24222079	14411A	29508022	181500A
23016610	101128	23042198	W111108	25010643	101013	29509198	111338
23016643	101070B	23042199	W111106	25611122	111013	29509198	111339
23016681	181300	23042200	R101108	29500365	34010B	29509637	131436
23016681	181300W	23042200	W101108	29500738	111794	29509660	Q111554
23016682	111300	23042201	R101106	29500739	111790W	29509661	D111578A
23016682	111300A	23042201	W101106	29501099	141324A	29509983	111338
23016682	111300F	23042210	R101106A	29501150	111300A	29509983	111339
23016683	111319	23042210	W101106A	29501160	111300	29510665	181500A
23016722	101607C	23045042	181300R	29501160	111300A	29510666	181500
23016723	101607D	23045054	101126B	29501161	111319	29510769	U111553
23016751	R101520A	23045072	111053	29501199	111160	29510838	111790

# ALLISON

## OEM INTERCHANGE

OEM #	Transtar #	OEM #	Transtar #	OEM #	Transtar #
29511257	R34500	29530495	141134A	29537393	A121114
29511860	44034	29530496	141114A	29537393	R121114
29512113	101309	29530531	141324B	29537394	121962
29513271	111011	29531048	121124	29537394	D121962
29513517	111837	29531049	A121104	29537398	181250C
29514487	A3HD	29531049	R121104	29537398	181250D
29514491	R101520A	29531189	121323	29537417D	M479-4
29514804	131142	29531325	111319	29537887	R111106
29515355	U101520	29532370	181002	29537887	W111106
29515399	111126	29532583	101010	29537965	121010
29515691	141074	29532584	101010	29537966	121010A
29516211	101052	29532584	101010C	29537993	N/A
29516211	101052A	29533074	D121418	29538036	111414
29516215	101052	29533075	D121418A	29538425	U101551-1
29516215	D101610	29534362	181483	29538468	A121108
29516333	101126	29535230	131324	29538468	R121108
29516333	101142	29535588	111211M	29538469	121100
29516484	131695B	29535637	121124A	29538469	A121100
29516486	131695A	29535942	131002	29538489	101011
29517123	111211M	29536105	121960B	29538489	101011A
29517123	111211N	29536196	181500	29538489	111010B
29519114	181250A	29536196	191530A	29538489	111011B
29519114	181250B	29536203	121964B	29538489	111011E
29520291	34334C	29536299	121070	29538489	34010B
29520291	34336	29536334	131108	29538490	111011
29520292	34335	29536335	R131100	29538491	101011C
29522708	111680	29536336	131104	29539579	121013
29522949	111037	29536337	131114	29539669	131002
29524116	101526	29536338	141108	29539792	D121446A
29524133	191584	29536339	141100	29540309	121070
29524362	101247	29536340	141104	29540479	121410
29524363	111672A	29536341	141114	29540483	131963
29524795	111323	29536343	131128	29540493	131010
29525170	111310	29536344	131120	29541007	121002
29525516	111673	29536345	131124	29541007	121002A
29526899	131010	29536346	131134	29541087	131002
29527101	101034A	29536347	141128	29541106	101783
29527102	101034B	29536348	141120	29541106	181783
29527373	101010	29536349	141124	29541338	R34500
29527373	101010C	29536350	141134	29541371	121446
29527481	101510C	29536379	121074	29541371	D121446
29527481	TSK21637A	29536408	121438	29541530	121962
29527499	R101510	29536481	121134A	29541736	131074
29527502	101532A	29536482	121134	29541834	A3HD
29527503	101532A	29536483	121134B	29541852	D121410A
29527506	101534A	29536526	121300	29542192	121124A
29527508	101534A	29536726	111323	29542585	14411A
29527781	131672B	29536780D	M479-3	29542815	121964BA
29528207	131104	29536833	74418EA	29542835	141002
29528215	101011C	29536920	121002	29542836	131002A
29529492	R111106	29536941	121305	29546682	121070A
29529492	W111106	29537067	131010D	29548988	131010A
29530312	R121108	29537068	131001	AS36-033	111414
29530313	A121100	29537356	111584-4	D4ZZ-7423B	101363
29530313	R121100	29537369	131420K	J1210	181541K
29530314	121128	29537370	131421E	PF-168	111011D
29530315	121120	29537373	131421F		
29530330	34126A	29537393	121114		

# NEW PART NO 50185

## BorgWarner PART NO. 50185

OEM Heavy Duty Replacement  
Governor Pressure Solenoid fits  
Dodge/Jeep 42/44/46/47/48 RE transmissions



*BorgWarner carries a full line of OEM quality clutch plates, transmission bands, one-way clutches, and electronic transmission solenoids that are 100% guaranteed to fit your rebuilds.*

## We're stable under pressure.

BorgWarner's new Governor Pressure Solenoid will not flood out at increased line pressures and can be used in modified and high performance transmissions as well as stock units. It delivers all the benefit of much more expensive aftermarket solenoid adapter kits for just the price of a solenoid, and with better reliability and no extra parts to change out.

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(800) 359.3339

