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SIL 6-WT-04, Rev. C
August 26, 2020
Page 1 of 18

SUBJECT: 4000 Product Family (formerly HD) ReTran® Assembly Number List

MODELS AFFECTED: 4000 Product Family

Introduction:

Allison Transmission, Inc. is pleased to announce the release of several new 4000 Product Family ReTran® assemblies. Allison Transmission will begin offering these new models ReTran® transmissions in April 2004. Some models will be configured as TransID 1 units with Raybestos clutch plates and others will be configured as TransID 3 units with Dynax clutch plates. The TransID 1 ReTran® models are intended to support replacement of TID1 and TID2 transmissions. The TransID 3 ReTran® models are intended to service TID3 transmissions.

Interchangeability:

1. The new 4000 Product Family ReTran® assemblies are designed to service two distinct HD model families.
 - Close ratio HD 4060(P) including 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS transmissions.
 - Wide ratio HD 4560(P) including 4500 EVS, 4500 HS, 4500 RDS, and 4500 SPS transmissions.
2. Close Ratio ReTran® models are designated 4000(P)(R)RM. Wide ratio ReTran® models are designated 4500(P)(R)RM.
3. Both 4000(P)(R)RM and 4500(P)(R)RM models offer a variety of transmission options including PTO/non-PTO provision, 2 inch or 4 inch sump, output retarder and standard or tachograph rear cover, and TID1 or TID3 hardware configuration.
 - a. TID1 configuration: All TID1 4000 Product Family ReTran® models are built using Raybestos clutch plates (except C5, which is Dynax material) and a TID1 internal wiring harness. This enables these transmissions to be used in WTEC II controls systems and early WTEC III in place of TID1 and TID2 transmissions without having to recalibrate the ECU. The ECU will autodetect the correct TID level once it has been set to UNADAPTED shifts.
 - b. TID3 configuration: All TID3 ReTran® models are built using Dynax clutch plates and a TID3 internal wiring harness. These transmissions may be used to replace TID3 transmissions without requiring a recalibration of the ECU.
 - c. A summary of 4000 Product Family ReTran® product features follows:

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Please Note: Allison Transmission Service Information Letters are intended for use by professional, trained technicians, not for the "do-it-yourselfer." They are written to inform those technicians of conditions that may occur on some transmission models (or serial numbers ranges) or to provide information that could assist in the proper servicing of a specific Allison transmission. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, do not assume that the Service Information Letter applies to your transmission, or that your transmission has the condition described. Product evolution and information updates are inevitable. Please see your authorized Allison Transmission service dealer or distributor to understand if your particular transmission may benefit from the information contained within the Service Information Letter.

Table 1. 4000 Product Family (without retarder) ReTran® Assemblies

TransID 1	TransID 3
TID1 Internal Wiring Harness	TID3 Internal Wiring Harness
Raybestos Clutch Friction Plates	Dynax Clutch Friction Plates
Double Bolt Output Shaft with Output Bolt Service Kit 29535910 or Single Bolt Output Shaft	Single Bolt Output Shaft
Original Rear Cover without Wraparound Slinger Provision	Choice of Original Rear Cover without Wraparound Slinger Provision OR with Wraparound Slinger and Axial Lip Seal
Standard or Tachograph Rear Cover. Tachograph Covers will use 4-tooth Nut.	Belleville Output Bearing Retainer

Table 2. 4000 Product Family (with retarder) ReTran® Assemblies

TransID 1	TransID 3
TID1 Internal Wiring Harness	TID3 Internal Wiring Harness
Raybestos Clutch Friction Plates	Dynax Clutch Friction Plates
Double Bolt Output Shaft with Output Bolt Service Kit 29535910 or Single Bolt Output Shaft	Single Bolt Output Shaft
Original Retarder Housing without Wraparound Slinger Provision	Sump Cooling Retarder Housing with Wraparound Slinger and Axial Lip Seal Provision
TID1 Retarder Temperature Sensor and MEDIUM Capacity Spring	TID2 and TID3 Retarder Temperature Sensor and MEDIUM Capacity Spring
	Belleville Output Bearing Retainer

4. By using a TID3 ReTran® model for TID3 transmissions only, and using TID1 ReTran® models for TID2 and earlier transmissions, it will not be necessary to recalibrate the ECU. Should any servicing outlet elect to use a TID3 ReTran® model with Dynax clutch plates in place of TID1 or TID2 transmission, the following must be considered.
 - a. WTEC II controls system: Retrofit the ReTran® model with a TID1 internal harness. Recalibrate the ECU with a TID1 calibration for Dynax.
 - b. WTEC III controls system: Recalibrate the ECU to the latest version 8A cal if previous cal installed before 10/24/99.

Refer to [Table 3](#), Transmission/ECU Compatibility Information for more details.

Table 3. Transmission/ECU Compatibility Information

ReTran® Transmission Configuration	Vehicle Configuration (ECU, Shift, and Wiring)				
	WTEC II, V6E; CIN 07	WTEC II, V7; CIN 08	WTEC III, V8; CIN 0A; TID1 (accommodates both lockup clutches after 8/25/97)	WTEC III, V8A, CIN 0B; TID1 and 2 (TID3 after 10/24/99, but will not handle RELS)	WTEC III, V9, V9A, V9B and V9C; CIN0C, 0D, 0E, and 0F; TID1, 2, and 3 (required for RELS)
TID1 HD ReTran®; Raybestos plates (except C5); Retarder option used TID1 temperature sensor, MEDIUM capacity spring.	Everything works OK/ no cal change required; replace vehicle harness con-necter with kit 29519127.	Everything works OK/ no cal change required.	Everything works OK/ no cal change required.	Everything works OK/ uses TID1 cal.	Although a TID1 ReTran® assembly will work OK, the preferred ReTran® for this vehicle configuration is a TID3 ReTran®.
TID3 HD ReTran®; Dynax plates; For HDR Retarder ReTran®: Retarder option will use MEDIUM capacity spring, and Axial output seal with wrap-around slinger provision. For Non-retarder ReTran®: Assemblies are available with OR without the Axial output seal with wrap-around slinger provision.	Will not work; code 44-13 and temp sensor codes. Use TID1 ReTran®	Will not work; code 44-13 and temp sensor codes. Use TID1 ReTran®	Requires calibration update; generate codes 33-23, 24-23, 33-12 otherwise. Shift quality problems because of clutch material change. Use TID1 ReTran®	Will not work if ECU cal installed before 10/24/99; generate code 36-01 and have shift quality problems because of clutch material change. Use TID1 ReTran®	Everything works OK, uses TID3 cal. THIS IS THE PREFERRED ReTran® FOR THIS VEHICLE SETUP.

Procedure:

- Determine the TID level of the transmission being replaced. The transmission's TID level is available in the following locations:
 - The TID level is printed on the transmission data tag for transmissions with E numbers and groups displayed on the data tag. For earlier WT transmissions with assembly numbers only, the TID level is equivalent to TID.
 - The TID level is printed on a white label on the outside of the internal harness.
 - The TID level is shown in "Unit History" of the Allison Transmission Extranet.
 - The TID level is displayed in ECU Calibration Information of the Allison DOC® or Pro-Link® diagnostic tools.
- Using the Allison Transmission Extranet Unit History display, determine the following for the transmission being replaced:
 - Model, i.e. 4060 and 4000 vocational models (Close Ratio) or 4560 and 4500 vocational models (Wide Ratio) (15 Group or 39 Group).

- b. Control module group (16 Group).
- c. Cooler port provision (20 Group).



NOTE: All 4000 Product Family ReTran® units with 4 inch sumps are shipped with two metal plugs (P/N 29507796) in the front ports and a cooler port cover plate (P/N 29506507) over the rear ports. Servicing outlets must adapt cooler port setup for the specific vehicle configuration.

For example, if front cooler provision is required simply remove the two P/N 29507796 metal plugs and connect the cooler lines. If rear cooler port provision is required, the P/N 29506507 cover plate and six M10 x 1.5 x 28 bolts (P/N 29507795) must be removed and replaced by the cooler manifold (P/N 29503546) and six M10 x 1.5 x 35 bolts (P/N 11514355) from the transmission being removed.

- d. Torque converter series (21 Group).
 - e. PTO or Non-PTO provision (34 Group).
 - f. Rear cover or Retarder configuration (39 Group).
3. Refer to the following tables to select the appropriate ReTran® assembly number.
- a. Tables are grouped by the model being replaced, i.e. 4000(P)(R)RM and 4500(P)(R)RM.
 - b. Refer to the top of each sheet to select the appropriate torque converter series.
 - c. The tables are further divided into base rear cover, tachograph rear cover and retarder option. Determine the rear cover/retarder feature in the transmission being replaced from 39 Group.
 - i. 4000 and 4500 series ReTran® units are available with one of the following rear cover module configurations:
 - 1. TID1 and TID2 Rear Cover – Base Rear Cover, No Wraparound slinger provision.
 - 2. TID1 and TID2 Rear Cover – Tachograph Rear Cover with 4-tooth nut, No Wraparound slinger provision.
 - 3. TID3 Rear Cover – Base Rear Cover, No Wraparound slinger provision.
 - 4. TID3 Rear Cover – Tachograph Rear Cover with 4-tooth nut, No Wraparound slinger provision.
 - 5. TID3 Rear Cover – Base Rear Cover, Wraparound slinger and axial lip seal provision.
 - 6. TID3 Rear Cover – Tachograph Rear Cover with 4-tooth nut, Wraparound slinger and axial lip seal provision.
 - ii. 4000 and 4500 series ReTran® units are available with the following retarder module configurations:
 - 1. TID1 and TID2 Retarder – Medium Capacity Retarder, No Wraparound slinger provision.
 - 2. TID3 Retarder – Medium Capacity Retarder, Wraparound slinger and axial lip seal provision.
 - iii. [Table 4](#) and [Table 5](#) may be used to determine the retarder module features in the transmission being replaced so a matching ReTran® unit may be selected. Use the 39 Group of the transmission being replaced to find its engineering features, TID level, spring capacity, etc.

Table 4. 4000 Close Ratio Retarder 39 Groups

Close Ratio Retarder Transmissions								
Control System	WTECII		WTECIII					
TransID level	TID1		TID2		TID3			
Feature	Original Retarder	Straight 7	TID2/3 Thermistor	Single bolt output shaft	Sump Cooling Provision	Integral Cooling Provision	Belleville Washer	Axial lip & Wrap-around slinger
4T Tacho, low	39-597	39-654	39-662	39-707	39-731	39-802	39-825	39-860
4T Tacho, med	39-582	39-652	39-660	39-705	39-732	39-803	39-826	39-861
4T Tacho, high	39-596	39-653	39-661	39-705	39-733	39-804	39-827	39-862
6T Tacho, low				39-773	39-777	39-808	39-838	39-863
6T Tacho, med				39-737	39-758	39-759	39-809	39-828
6T Tacho, high				39-774	39-778	39-810	39-839	39-865
16T Eng. Tacho	39-614	39-658	39-666	39-708				

Table 5. 4500 Wide Ratio Retarder 39 Groups

Wide Ratio Retarder Transmissions								
Control System	WTECII		WTECIII					
TransID level	TID1		TID2		TID3			
Feature	Original Retarder	Straight 7	TID2/3 Thermistor	Single bolt output shaft	Sump Cooling Provision	Integral Cooling Provision	Belleville Washer	Axial lip & Wrap-around slinger
4T Tacho, low	39-598	39-657	39-665	39-711	39-734	39-805	39-830	39-866
4T Tacho, med	39-583	39-655	39-663	39-709	39-735	39-806	39-831	39-867
4T Tacho, high	39-595	39-656	39-664	39-710	39-736	39-807	39-832	39-868
6T Tacho, low				39-769	39-765	39-811	39-833	39-869
6T Tacho, med				39-770	39-766	39-812	39-834	39-870
6T Tacho, high				39-771	39-767	39-813	39-835	39-871
16T Eng. Tacho	39-617	39-659	39-667	39-712				

- d. Determine the correct control module sump size (2 inch or 4 inch) using the 16 Group.
- e. Select the TID level. ReTran® units are grouped into either TID1 and TID2 (Raybestos clutches) or TID3 (Dynax clutches).
- f. Determine if a PTO provision is required using the 34 group.
- g. Read the appropriate ReTran® assembly number from the following tables:

4000(P)RM ReTran® Assembly Numbers to Service 4060(P), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions without Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 6. Base Rear Cover 39-544, 39-697, 39-816 and 39-849

TC 521 Torque Converter 21-764, 21-930			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-544 and 39-697	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543103 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger provision 39-697 and 39-816	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543113 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger and axial seal 39-849	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor.			

4000(P)RM ReTran® Assembly Numbers to Service 4060(P), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions without Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 7. Tachograph Rear Cover 39-587, 39-698, 39-739, 39-817, 39-850, and 39-852

TC 521 Torque Converter 21-764, 21-930			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-587, 39-698 and 39-739	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger prov. 39- 698, 39-739, 39-817, 39-819	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543141 Note 1 Note 2
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger prov. 39-850 and 39-852	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543143 Note 1 Note 2
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor.			
Note 2 Replace output nut with 6-tooth tachograph nut if 6-tooth tachograph provision is being used in vehicle.			

4000(P)RM ReTran® Assembly Numbers to Service 4060(P), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions without Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 8. Base Rear Cover 39-544, 39-697, 39-816 and 39-849

TC 531 Torque Converter 21-765, 21-929			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-544 and 39-697	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543102 Note 1
		Non-PTO Provision 34-543	
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger provision 39-697 and 39-816	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543112 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger and axial seal 39-849	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	
		Non-PTO Provision 34-543	29557191
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor.			

4000(P)RM ReTran® Assembly Numbers to Service 4060(P), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions without Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 9. Tachograph Rear Cover 39-587, 39-698, 39-739, 39-817, 39-850, and 39-852

TC 531 Torque Converter 21-765, 21-929			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-587, 39-698 and 39-739	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger prov. 39-698, 39-739, 39-817, 39-819	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger prov. 39-850 and 39-852	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available

4000(P)RM ReTran® Assembly Numbers to Service 4060(P), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions without Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 10. Base Rear Cover 39-544, 39-697, 39-816 and 39-849

TC 541 Torque Converter 21-766, 21-928			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-544 and 39-697	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543101 Note 1
		Non-PTO Provision 34-543	29543105 Note 1
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger provision 39-697 and 39-816	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543111 Note 1
		Non-PTO Provision 34-543	29543122 Note 1
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	29543115
		Non-PTO Provision 34-543	
TID3 Dynax Clutches 01-807 Wraparound slinger and axial seal 39-849	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543116 Note 1
		Non-PTO Provision 34-543	29557190
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	29543120
		Non-PTO Provision 34-543	29543129
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor.			

4000(P)RM ReTran® Assembly Numbers to Service 4060(P), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions without Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 11. Tachograph Rear Cover 39-587, 39-698, 39-739, 39-817, 39-850, and 39-852

TC 541 Torque Converter 21-766, 21-928			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-587, 39-698 and 39-739	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543136 Note 1 Note 2
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger prov. 39-698, 39-739, 39-817, 39-819	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543140 Note 1 Note 2
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger prov. 39-850 and 39-852	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29557195
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor.			
Note 2 Replace output nut with 6-tooth tachograph nut if 6-tooth tachograph provision is being used in vehicle.			

4000(P)RM ReTran® Assembly Numbers to Service 4060(P), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions without Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 12. Base Rear Cover 39-544, 39-697, 39-816 and 39-849

TC 551 Torque Converter 21-767, 21-927			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-544 and 39-697	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	29543104 Note 1
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	29543108
TID3 Dynax Clutches 01-807 No Wraparound slinger provision 39-697 and 39-816	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	29543121 Note 1
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	29543123
TID3 Dynax Clutches 01-807 Wraparound slinger and axial seal 39-849	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29557194
		Non-PTO Provision 34-543	29543126 Note 1
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	29543128
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor.			

4000(P)RM ReTran® Assembly Numbers to Service 4060(P), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions without Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 13. Tachograph Rear Cover 39-587, 39-698, 39-739, 39-817, 39-850, and 39-852

TC 551 Torque Converter 21-767, 21-927			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-587, 39-698 and 39-739	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger prov. 39-698, 39-739, 39-817, 39-819	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger prov. 39-850 and 39-852	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available

4000(P)RM ReTran® Assembly Numbers to Service 4060(P), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions without Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 14. Base Rear Cover 39-544, 39-697, 39-816 and 39-849

TC 561 Torque Converter 21-768, 21-926			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-544 and 39-697	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger provision 39-697 and 39-816	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	29543114
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger and axial seal 39-849	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29557192
		Non-PTO Provision 34-543	29557189
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	29557193
		Non-PTO Provision 34-543	Not Available

4000(P)RM ReTran® Assembly Numbers to Service 4060(P), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions without Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 15. Tachograph Rear Cover 39-587, 39-698, 39-739, 39-817, 39-850, and 39-852

TC 561 Torque Converter 21-768, 21-926			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-587, 39-698 and 39-739	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger prov. 39-698, 39-739, 39-817, 39-819	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger prov. 39-850 and 39-852	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available

4000(P)RRM Assembly Numbers to Service 4060(P), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions with Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 16.

TC 521 Torque Converter 21-764, 21-930 TID1 and TID2 Raybestos Clutches 01-750			
TID1 and TID2 Retarder Housing See Table 4 for 39 groups. ReTran® unit will not have Wraparound slinger provision	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TC 521 Torque Converter 21-764, 21-930 TID3 Dynax Clutches 01-807			
TID3 Retarder Housing See Table 4 for 39 groups. ReTran® unit will have Wraparound slinger and axial seal.	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543155 Note 1 Note 2 Note 3
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TC 541 Torque Converter 21-766, 21-928 TID1 and TID2 Raybestos Clutches 01-750			
TID1 and TID2 Retarder Housing See Table 4 for 39 groups. ReTran® unit will not have Wraparound slinger provision	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543146 Note 1 Note 2 Note 3
		Non-PTO Provision 34-543	29543153 Note 1 Note 2 Note 3
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TC 541 Torque Converter 21-766, 21-928 TID3 Dynax Clutches 01-807			
TID3 Retarder Housing See Table 4 for 39 groups. ReTran® unit will have Wraparound slinger and axial seal.	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543154 Note 1 Note 2 Note 3
		Non-PTO Provision 34-543	29557196 Note 1 Note 2 Note 3
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor. Note 2 Replace output nut with 6-tooth tachograph nut if 6-tooth tachograph provision is being used in vehicle. Note 3 All ReTran® retarder units are built with a MEDIUM capacity springs. Servicing outlets may need to change to LOW or HIGH capacity springs to match the unit being replaced. A change to a low capacity spring will require a different calibration than the calibrations used with the medium or high springs. Consult the Allison Transmission 4000 Product Family Parts catalog to determine the appropriate part number spring.			

4000(P)RM ReTran® Assembly Numbers to Service 4060(P)(R), 4000 MH, 4000 TRV, 4000 EVS, 4000 HS, 4000 RDS, and 4000 SPS Transmissions with Retarder. Use Group 15-511 for Close Ratio Transmissions

Table 17.

TC 551 Torque Converter 21-767, 21-927 TID1 and TID2 Raybestos Clutches 01-750			
TID1 and TID2 Retarder Housing See Table 4 for 39 groups. ReTran® unit will not have Wraparound slinger provision	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	29543149 Note 1 Note 2
TC 551 Torque Converter 21-767, 21-927 TID3 Dynax Clutches 01-807			
TID3 Retarder Housing See Table 4 for 39 groups. ReTran® unit will have Wraparound slinger and axial seal.	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	29543157 Note 1 Note 2
Note 1 Replace output nut with 6-tooth tachograph nut if 6-tooth tachograph provision is being used in vehicle Note 2 All ReTran® retarder units are built with a MEDIUM capacity springs. Servicing outlets may need to change to LOW or HIGH capacity springs to match the unit being replaced. A change to a low capacity spring will require a different calibration than the calibrations used with the medium or high springs. Consult the Allison Transmission 4000 Product Family Parts catalog to determine the appropriate part number spring.			

4500(P)RM ReTran® Assembly Numbers to Service 4560(P), 4500 EVS, 4500 HS, 4500 RDS, and 4500 SPS Transmissions without Retarder. Use Group 15-512 for Wide Ratio Transmissions

Table 18. Base Rear Cover 39-545, 39-701, 39-820 and 39-853

TC 521 Torque Converter 21-764, 21-930			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-545 and 39-701	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543090 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger provision 39-701 and 39-820	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543095 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger and axial seal 39-853	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543100 Note 1
		Non-PTO Provision 34-543	29557199
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor.			

4500(P)RM ReTran® Assembly Numbers to Service 4560(P), 4500 EVS, 4500 HS, 4500 RDS, and 4500 SPS Transmissions without Retarder. Use Group 15-512 for Wide Ratio Transmissions

Table 19. Tachograph Rear Cover 39-588, 39-702, 39-764, 39-821, 39-823, 39-854 and 39-857

TC 521 Torque Converter 21-764, 21-930			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-588, 39-701 and 39-764	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger prov. 39- 702, 39-764, 39-821, 39-823	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger prov. 39-854 and 39-857	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29557203
		Non-PTO Provision 34-543	29557200
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available

4500(P)RM ReTran® Assembly Numbers to Service 4560(P), 4500 EVS, 4500 HS, 4500 RDS, and 4500 SPS Transmissions without Retarder. Use Group 15-512 for Wide Ratio Transmissions

Table 20. Base Rear Cover 39-545, 39-701, 39-820 and 39-853

TC 531 Torque Converter 21-765, 21-929			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-545 and 39-701	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543089 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger provision 39-701 and 39-820	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543094 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger and axial seal 39-853	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29557202
		Non-PTO Provision 34-543	29557198
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor.			

4500(P)RM ReTran® Assembly Numbers to Service 4560(P), 4500 EVS, 4500 HS, 4500 RDS, and 4500 SPS Transmissions without Retarder. Use Group 15-512 for Wide Ratio Transmissions

Table 21. Tachograph Rear Cover 39-588, 39-702, 39-764, 39-821, 39-823, 39-854 and 39-857

TC 531 Torque Converter 21-765, 21-929			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-588, 39-701 and 39-764	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger prov. 39- 702, 39-764, 39-821, 39-823	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger prov. 39-854 and 39-857	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available

4500(P)RM ReTran® Assembly Numbers to Service 4560 (P), 4500EVS, 4500HS, 4500RDS and 4500SP Transmissions without Retarder. Use Group 15-512 for Wide Ratio Transmissions

Table 22. Base Rear Cover 39-545, 39-701, 39-820 and 39-853

TC 541 Torque Converter 21-766, 21-928			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-545 and 39-701	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543088 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger provision 39-701 and 39-820	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543093 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger and axial seal 39-853	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543098 Note 1
		Non-PTO Provision 34-543	29557197
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available

Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor.

4500(P)RM ReTran® Assembly Numbers to Service 4560(P), 4500 EVS, 4500 HS, 4500 RDS, and 4500 SPS Transmissions without Retarder. Use Group 15-512 for Wide Ratio Transmissions

Table 23. Tachograph Rear Cover 39-588, 39-702, 39-764, 39-821, 39-823, 39-854 and 39-857

TC 541 Torque Converter 21-766, 21-928			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-588, 39-701 and 39-764	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543131 Note 1 Note 2
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger prov. 39- 702, 39-764, 39-821, 39-823	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543134 Note 1 Note 2
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger prov. 39-854 and 39-857	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543135 Note 1 Note 2
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor. Note 2 Replace output nut with 6-tooth tachograph nut if 6-tooth tachograph provision is being used in vehicle.			

4500(P)RM ReTran® Assembly Numbers to Service 4560(P), 4500 EVS, 4500 HS, 4500 RDS, and 4500 SPS Transmissions without Retarder. Use Group 15-512 for Wide Ratio Transmissions

Table 24. Base Rear Cover 39-545, 39-701, 39-820 and 39-853

TC 551 Torque Converter 21-767, 21-927			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-545 and 39-701	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger provision 39-701 and 39-820	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543092 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger and axial seal 39-853	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543097 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor.			

4500(P)RM ReTran® Assembly Numbers to Service 4560(P), 4500 EVS, 4500 HS, 4500 RDS, and 4500 SPS Transmissions without Retarder. Use Group 15-512 for Wide Ratio Transmissions

Table 25. Tachograph Rear Cover 39-588, 39-702, 39-764, 39-821, 39-823, 39-854 and 39-857

TC 551 Torque Converter 21-767, 21-927			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-588, 39-701 and 39-764	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger prov. 39- 702, 39-764, 39-821, 39-823	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger prov. 39-854 and 39-857	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available

4500(P)RM ReTran® Assembly Numbers to Service 4560(P), 4500 EVS, 4500 HS, 4500 RDS, and 4500 SPS Transmissions without Retarder. Use Group 15-512 for Wide Ratio Transmissions

Table 26. Base Rear Cover 39-545, 39-701, 39-820 and 39-853

TC 561 Torque Converter 21-768, 21-926			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-545 and 39-701	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger provision 39-701 and 39-820	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	29543091 Note 1
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger and axial seal 39-853	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor.			

4500(P)RM ReTran® Assembly Numbers to Service 4560(P), 4500 EVS, 4500 HS, 4500 RDS, and 4500 SPS Transmissions without Retarder. Use Group 15-512 for Wide Ratio Transmissions

Table 27. Tachograph Rear Cover 39-588, 39-702, 39-764, 39-821, 39-823, 39-854 and 39-857

TC 551 Torque Converter 21-767, 21-927			
TID1 and TID2 Raybestos Clutches 01-750 No Wraparound slinger prov. 39-588, 39-701 and 39-764	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 No Wraparound slinger prov. 39- 702, 39-764, 39-821, 39-823	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TID3 Dynax Clutches 01-807 Wraparound slinger prov. 39-854 and 39-857	4" Sump with or without Oil Level Sensor 16-1738 and 16-1739	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1740	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available

4500(P)(R)RM ReTran® Assembly Numbers to Service 4560(P)(R), 4500 EVS, 4500 HS, 4500 RDS, and 4500 SPS Transmissions with Retarder. Use Group 15-512 for Wide Ratio Transmissions

Table 28.

TC 521 Torque Converter 21-764, 21-930 TID1 and TID2 Raybestos Clutches 01-750			
TID1 and TID2 Retarder Housing See Table 4 for 39 groups. ReTran® unit will not have Wraparound slinger provision	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TC 521 Torque Converter 21-764, 21-930 TID3 Dynax Clutches 01-807			
TID3 Retarder Housing See Table 4 for 39 groups. ReTran® unit will have Wraparound slinger and axial seal.	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Note 1 Note 2 Note 3
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TC 541 Torque Converter 21-766, 21-928 TID1 and TID2 Raybestos Clutches 01-750			
TID1 and TID2 Retarder Housing See Table 4 for 39 groups. ReTran® unit will not have Wraparound slinger provision	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
TC 541 Torque Converter 21-766, 21-928 TID3 Dynax Clutches 01-807			
TID3 Retarder Housing See Table 4 for 39 groups. ReTran® unit will have Wraparound slinger and axial seal.	4" Sump with or without Oil Level Sensor 16-1601, 1602, 1639, 1640, 1700 and 1701	PTO Provision 34-545	29543160 Note 1 Note 2 Note 3
		Non-PTO Provision 34-543	Not Available
	2" Sump with Oil Level Sensor 16-1603, 1641 and 1702	PTO Provision 34-545	Not Available
		Non-PTO Provision 34-543	Not Available
Note 1 All 4000 Product Family ReTran® units are equipped with an oil level sensor. Note 2 Replace output nut with 6-tooth tachograph nut if 6-tooth tachograph provision is being used in vehicle Note 3 All ReTran® retarder units are built with a MEDIUM capacity springs. Servicing outlets may need to change to LOW or HIGH capacity springs to match the unit being replaced. A change to a low capacity spring will require a different calibration than the calibrations used with the medium or high springs. Consult the Allison Transmission 4000 Product Family Parts catalog to determine the appropriate part number spring.			