Endurant XD Series Automated Transmission TRPB0960 EN-US

April 2024

EXD-16F118D

EXD-18F118D

EXDP-16F118D

EXDP-18F118D

EXDP-20F118D





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Warnings and Cautions

The alert symbols, signal words (DANGER, WARNING and CAUTION) and statements throughout this manual indicate the potential severity of a situation. Ensure to read, understand and follow each statement to avoid vehicle damage, component damage, personal injury, severe injury and/or death.



DANGER: Indicates an immediate hazard. Failure to follow the indicated procedures will cause major vehicle component damage, severe injury or death.



WARNING: Indicates an immediate hazard. Failure to follow the indicated procedures may result in major vehicle component damage, severe injury or death.



CAUTION: Indicates a potential hazard. Failure to follow the indicated procedures could result in minor or moderate component damage and/or personal injury.

The NOTICE and Note statements throughout this manual provide additional details required to avoid damaging a component or incorrectly completing a repair. Ensure to read, understand and follow each statement to properly complete a repair.

NOTICE: Indicates component or property damage could result if you do not follow the indicated procedure.

Note: Indicates additional detail that will aid in the repair of a component.

This manual is for transmission service parts and kits identification. Refer to Endurant XD Service Manual TRSM0960 for the appropriate service procedure.



CAUTION: Reference Endurant XD Service Manual TRSM0960 for the appropriate Service Procedure. Failure to follow the appropriate Service Procedure may result in component damage and/or personal injury.

NOTICE: Always reference the latest electronic version of this document to ensure accurate service information.

How to Use This Manual

This manual is divided into four sections: General Information, Transmission Identification, Service Parts and Kits, and Appendix.



CAUTION: Reference Endurant XD Service Manual TRSM0960 for the appropriate Service Procedure. Failure to follow the appropriate Service Procedure may result in component damage and/or personal injury.

NOTICE: Always reference the latest electronic version of this document to ensure accurate service information.

General Information

This section contains basic chapters such as Warnings and Cautions and How to Use This Manual

Transmission Identification

This section provides instruction on how to find and identify the transmission model and serial number.



CAUTION: Record transmission model and serial number prior to identifying the service part and/or kit. Failure to select the correct part based on transmission model number and/or serial number may result in improper repair, and possible transmission and/or engine component damage.

Service Parts and Kits

The Service Parts and Kits are divided in four sections; OEM and Engine Specific Kits (Clutch, Input Shaft and Service Units), Main Housing, Intermediate Housing and Rear Housing. A Component Identification diagram is included with each part or kit.

To find the information you need, simply identify the transmission model and the section of the transmission being worked on, refer to the Service Parts and Kits Index, turn to the page specified and identify the part or kit number.

Appendix

This section contains additional details that support the service of the transmission.

Service Kits and Parts Index

OEM and Engine Specific Transmission Kits

Description	Page
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Main Housing

Description	Part Number	Page
8-Bolt PTO Cover Kit	K-4534	page 24
Anaerobic Sealant (50 ML / 1.69 Oz.)	5564561	page 22
Countershaft Bearing Kit	K-4584	page 27
Drive Gear - Front Small Parts Kit	K-4674	page 30
Drive Gear - Rear Small Parts Kit	K-4675	page 30
Fluid Pressure Sensor Kit	K-4387	page 36
Front Snap Ring Kit	K-4582	page 19
Inertia Brake Air Line Assembly	S-3253	page 17
Inertia Brake Air Line Fitting	10001240	page 18
Inertia Brake Cover Cap Screw	10001813-MP6	page 17
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Input Shaft Cover Kit	K-4663	page 14
Linear Clutch Actuator (LCA) Kit	K-4576	page 23
Linear Clutch Actuator (LCA) Cap Screws	X-8-0874M-MP4	page 23
Main Housing Cap Screw	X-8F-1051M-MP28	page 29
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Main Shaft Selective Washer Kit	K-4586	page 25

Main Housing

Description	Part Number	Page
Mechatronic Transmission Module (MTM) Kit	See Table	page 21
MTM Cap Screw (M10X1.5X35)	10001179- MP20	page 24
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PTO Pillow Block Assembly	A-10004610	page 32
Rail A Shift Yoke Cover	K-4581	page 18
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TCM Cover	4307675	page 22
TCM Mounting Stud	5577511-MP4	page 22
Upper & Lower Countershaft Kit	K-4536	page 29
Upper Countershaft Cover	K-4671	page 15
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Intermediate Housing Service Kits

Description	Part Number	Page
Breather	4304602	page 35
Cooler Bypass Cartridge Assemblies	K-4541 (Navistar) K-4662 (PACCAR) K-4542 (DTNA)	page 35
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Oil Pump Assembly	S-3241	page 34
Reverse Idler Kit	K-4587	page 34

Rear Housing

Description	Part Number	Page
Harness Bracket Parts	K-4595	page 38

Rear Housing

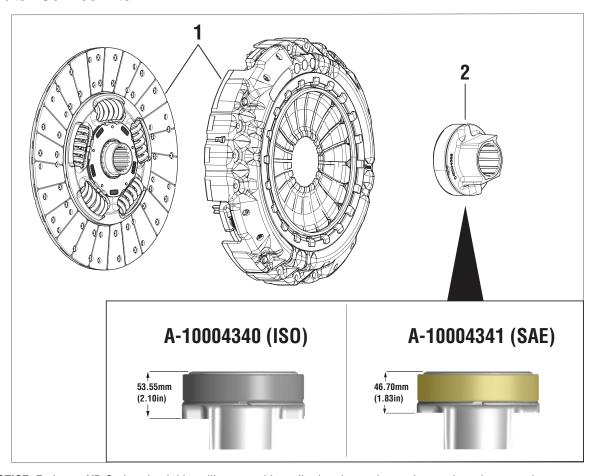
Description	Part Number	Page
Output Seal Kit	K-4578	page 37
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Output Yoke Retainer Bolt	10000949	page 37
Output Yoke Retainer Plate	10000950	page 38
Planetary Output Shaft Assembly	K-4593	page 43
Rail A Shift Yoke	K-4590	page 42
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Rear Bearing Cover Cap Screw	10001172-MP8	page 37
Rear Housing Kit	K-4591	page 39
Rear PTO Cover Kit	K-4577	page 39
Shift Rail E and Yoke	K-4592	page 42

Lubricant, PS-386 HD Synthetic Transmission

Description	Part Number	Page
1 Gallon Jug	5564546-M4	page 43
5 Gallon Pail	5564543	page 43
55 Gallon Drum	5564544	page 43

OEM and Engine Specific Kits

Clutch Service Kits



NOTICE: Endurant XD Series clutch kits will not provide a pilot bearing and must be purchased separately

Pilot Bearing Series	Engine	Eaton Part Number
6306	Cummins ISX12N, X12 and X15/Detroit DD13, DD15, and DD16	5566517
5206	Navistar A26	5566518
6206	PACCAR MX11, MX13, PX9 / Cummins L9	5566516

NOTICE: Endurant XD Series specifications require that the pilot bearing shall be capable of withstanding operating temperature up to 160 degrees C.

K-4544CL (SAE / XD up to 1850 lb-ft. with 260mm Flywheel Bore Engines).

- Freightliner / DTNA Cummins Engines
- · Western Star Cummins Engines
- · Volvo Cummins engine
- Pilot Bearing Sold Separately

	Description	P/N	QTY
1	Driven Disc Assembly and Clutch Cover (NSS)	105511-5 (Soft Rate Dampener)	1
2	Release Bearing Assembly	A-10004341	1

K-4545CL (ISO / XD up to 1850 lb-ft. with 260mm Flywheel Bore Engines).

- PACCAR Cummins Engine
- Navistar Cummins Engine
- Navistar A26 Engine
- Pilot Bearing Sold Separately

	Description	P/N	QTY
1	Driven Disc Assembly and Clutch Cover (NSS)	105511-5 (Soft Rate Dampener)	1
2	Release Bearing Assembly	A-10004340	1

K-4557CL (SAE High Temp / High Torque XD PRO Extreme duty up to 2050 lb-ft. with 260mm Flywheel Bore Engines).

- Freightliner / DTNA Cummins Engine
- · Western Star Cummins Engine
- Volvo Cummins Engine
- Pilot Bearing Sold Separately

	Description	P/N	QTY
1	Driven Disc Assembly and Clutch Cover (NSS)	105551-CL-65 (Standard Dampener)	1
2	Release Bearing Assembly	A-10004341	1

K-4558CL (ISO High Temp / XD PRO Extreme duty up to 2050 lb-ft. with 260mm Flywheel Bore Engines).

- PACCAR Cummins Engine
- · Navistar Cummins Engine
- Pilot Bearing Sold Separately

	Description	P/N	QTY
1	Driven Disc Assembly and Clutch Cover (NSS)	105551-CL-65 (Standard Dampener)	1
2	Release Bearing Assembly	A-10004340	1

K-4559CL (SAE High Temp / XD PRO Extreme duty up to 1850 lb-ft. with 260mm Flywheel Bore Engines).

- Freightliner Cummins Engine
- Pilot Bearing Sold Separately

	Description	P/N	QTY
1	Driven Disc Assembly and Clutch Cover (NSS)	105551-CL-70 (Standard Dampener)	1
2	Release Bearing Assembly	A-10004341	1

K-4560CL (ISO / High Temp XD PRO Extreme duty up to 1850 lb-ft. with 260mm Flywheel Bore Engines).

- PACCAR Cummins Engine
- Navistar Cummins Engine
- Navistar A26 Engine
- · Pilot Bearing Sold Separately

	Description	P/N	QTY
1	Driven Disc Assembly and Clutch Cover (NSS)	105551-CL-70 (Standard Dampener)	1
2	Release Bearing Assembly	A-10004340	1

K-4561CL / K-4561CL-PAC (ISO / XD up to 1850 lb-ft. with 290mm Flywheel Bore Engines).

- MX11 / MX13
- Pilot Bearing Sold Separately

	Description	P/N	QTY
1	Driven Disc Assembly and Clutch Cover (NSS)	105521-20 (Soft Rate Dampener)	1
2	Release Bearing Assembly	A-10004340	1

K-4638CL / K-4638CL-PAC (ISO / XD PRO Extreme duty up to 2050 lb-ft. with 290mm Flywheel Bore Engines).

MX11 / MX13

	Description	P/N	QTY
1	Driven Disc Assembly and Clutch Cover (NSS)	105561-CL-60 (Soft Rate Dampener)	1
2	Release Bearing Assembly	A-10004340	1

Input Shaft Kit Part Number Identification

Use the diagram below to identify the Input Shaft installed in your transmission. Verify Input Shaft and OEM - Engine to determine the correct input shaft service part number.

- a. Locate the part number on the end of the Input Shaft as shown in Diagram A. Compare input shaft part number to Kit Part Number in table below, primary identification.
- b. If part number is illegible Measure input shaft as shown in Diagram B. Compare input shaft measurement (X) to Kit Part Number in table below, secondary configuration.

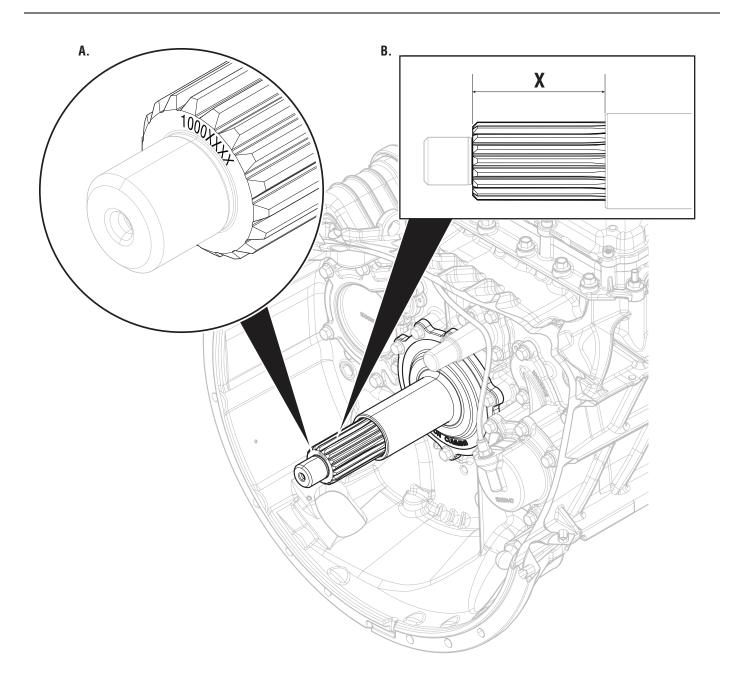
NOTICE: For secondary identification, input shaft and cover must be fully assembled in Main Housing.

c. OEM - Engine

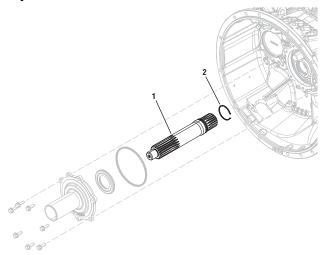


CAUTION: Ensure to install the correct input shaft based on the current input shaft installed in your transmission and OEM - Engine. Failure to install the correct input shaft may result in engine and/or transmission component damage.

a. Primary Identification Part Number	b. Secondary Identification Measurement	c. OEM - Engine	Kit Part Number	
		Kenworth - Cummins Engines		
		Navistar - A26 Engines		
10003512	93 - 95 mm (3.661 - 3.740 in)	Navistar - Cummins Engines	K-4555 (ISO)	
10000012		Peterbilt - Cummins Engines	1 (100)	
		PACCAR - MX Engines		
		Freightliner - Cummins Engines		
10004048	82 - 84 mm (3.228 - 3.307 in)	Volvo - Cummins Engine	K-4556 (SAE)	
	,	Western Star - Cummins Engines	, ,	



Input Shaft Kits



K-4555 (ISO)

- Kenworth Cummins Engines
- Navistar A26 Engines
- Navistar Cummins Engines
- Peterbilt Cummins Engines
- PACCAR MX engines

	Description	Part Number	QTY
1	Input Shaft	10003512	1
2	Input Shaft Snap Ring	10003175	1

K-4556 (SAE)

- Freightliner Cummins Engines
- Volvo Cummins Engine
- Western Star Cummins Engine

	Description	Part Number	QTY
1	Input Shaft	10004048	1
2	Input Shaft Snap Ring	10003175	1

Transmission Service Unit, REMAN, or Complete, Part Number Identification

Use the diagram below to identify the Input Shaft installed in your transmission. Verify Input Shaft and OEM - Engine to determine the correct transmission service unit part number.

a. Locate the part number of the end of the Input Shaft as shown in Diagram A. Compare input shaft part number to Service Unit Part Number in table below, primary identification.

Note: The additional part number in the primary identification is the assembly part number used in the Bill of Material (BOM).

b. If part number is illegible - Measure input shaft as shown in Diagram B. Compare input shaft measurement (X) to Service Unit Part Number in table below, secondary identification.

NOTICE: For secondary identification, input shaft and cover must be fully assembled in Main Housing.

c. OEM - Engine

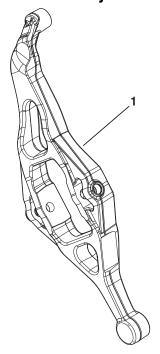


CAUTION: Ensure to install the correct service unit based on the current input shaft installed in your transmission and OEM - Engine. Failure to install the correct service unit may result in engine and/or transmission component damage.

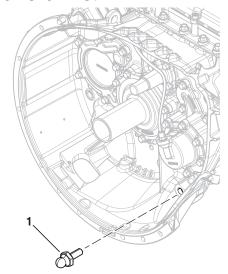
a. Primary Identification Part Number / Assembly Part Number	b. Secondary Identification Measurement	c. OEM - Engine	REMAN Service Unit (Dual PTO)	Complete Service Unit (Dual PTO)
		Kenworth - Cummins Engines		
		Navistar - A26 Engines	TBD	TA-H23-18X
10003512	93 - 95 mm (3.74 - 3.66 in)	Navistar - Cummins Engines		
	(0.71 0.00 111)	Peterbilt - Cummins Engines		
		PACCAR - MX Engines		
40004040		Freightliner - Cummins Engines		TA 1100 1011
10004048 79.50 - 81.50 mm (3.130 - 3.209 in)		Volvo - Cummins Engine	- TBD	
		Western Star - Cummins Engines		

Main Housing Service Kits

Release Yoke Assembly Kit



Release Yoke Pivot Pin



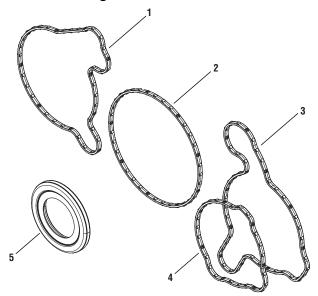
	Description	Part Number	QTY
1	Release Yoke Pivot Pin	10003575	1

K-4553

	Description	Part Number	QTY
1	Release Yoke, Clutch	A-10004349	1

Note: XD Release Yoke follows clutch warranty. Reference TAIB-0998 for clutch component inspection / reuse criteria.

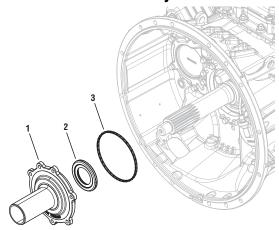
Main Housing Seal Kit



K-4552

	Description	Part Number	QTY
1	Upper Countershaft Seal (NSS)	10003307	1
2	Input Shaft Cover Seal (NSS)	10003304	1
3	Inertia Brake Housing (Rear) Seal (NSS)	10003300	1
4	Inertia Brake Hous- ing (Front) Seal	10003299	1
5	Input Shaft Seal (NSS)	4305625	1

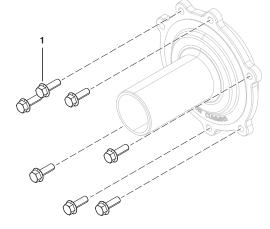
Input Shaft Cover Assembly



K-4663 (Hard Lock Bearing Design)

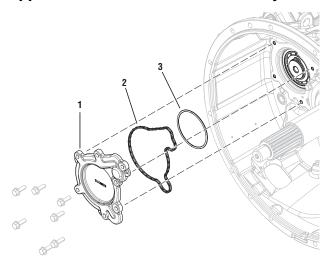
	Description	P/N	QTY
1	Input Shaft Cover (NSS)	S-3259	1
2	Input Shaft Seal	4305625	1
3	Input Shaft Cover Seal (NSS)	10003304	1

Input Shaft Cover Cap Screw



	Description	P/N	QTY
1	Input Shaft Cover Cap Screw (M8X1.25X25)	10001814- MP10	7

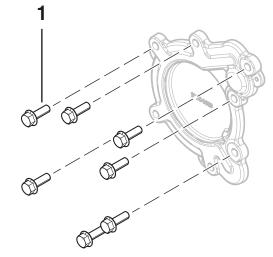
Upper Countershaft Cover Assembly



K-4671 (Hard Lock Bearing Design)

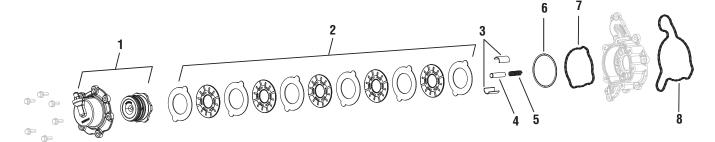
	Description	P/N	QTY
1	Upper Countershaft Cover	A-10004624	1
2	Upper Countershaft Seal (NSS)	10003307	1
3	Upper Countershaft Cover O-ring	10003798	1

Upper Countershaft Cover Cap Screw



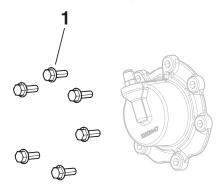
	Description	P/N	QTY
1	Upper Countershaft Cover Cap Screw (M8X1.25X25)	10001814- MP10	7

Inertia Brake Kit



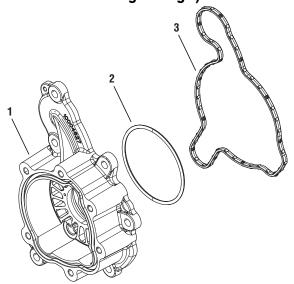
	Description	P/N	QTY		Description	P/N	Qty
1	Inertia Brake Cover and Piston (NSS)	S-3200	1	5	Inertia Brake Return Spring (NSS)	8874897	1
2	Inertia Brake Steel (7) and Friction Discs (5) (NSS)	S-3262	1	6	O-ring	10003798	1
3	Inertia Brake Wear Guides (NSS)	10003523	2	7	Inertia Brake Housing (Front) Seal (NSS)	10003299	1
4	Inertia Brake Piston Pin (NSS)	10000778	1	8	Inertia Brake Housing (Rear) Seal (NSS)	10003300	1

Inertia Brake Cover Cap Screw



	Description	P/N	QTY
1	Inertia Brake Cover Cap Screw (M8X1.25X25)	10001814-MP10	6

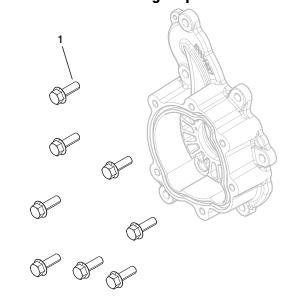
Inertia Brake Housing (Hard Lock Bearing Design)



K-4670

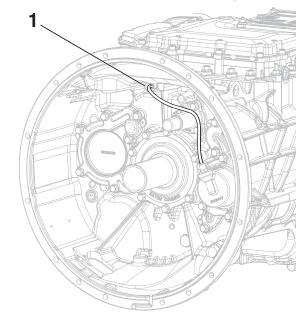
	Description	P/N	QTY
1	Inertia Brake Housing	A-10004628	1
2	Lower Countershaft Cover O-ring	10003798	1
3	Inertia Brake Housing (Rear) Seal	10003300	1

Inertia Brake Housing Cap Screws



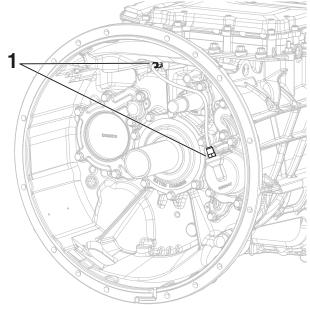
	Description	P/N	QTY
1	Inertia Brake Hous- ing Cap Screw (M8X1.25X25)	10001814-MP10	8

Inertia Brake Air Line Assembly



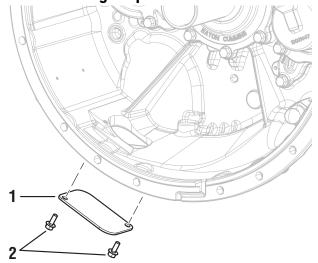
	Description	P/N	QTY
1	Inertia Brake Air Line Assembly	S-3253	1

Inertia Brake Air Line Fitting



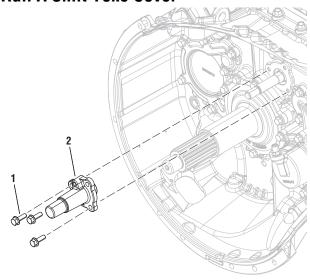
	Description	P/N	QTY
1	Inertia Brake Air Line Straight Fitting	10001239	2

Main Housing Inspection Cover



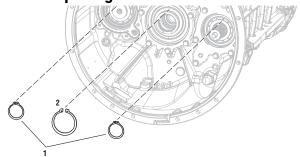
	Description	P/N	QTY
1	Clutch Housing Inspection Cover	10001202	1
2	Clutch Housing Inspection Cover Cap Screws (M6x1.0x16)	X-8-0625M	2

Rail A Shift Yoke Cover



	Description	P/N	QTY
1	Inertia Brake Cover Cap Screw (M8X1.25X25)	10001814- MP10	3
2	Rail A Cover Assembly	S-3256	1

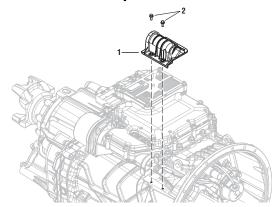
Front Snap Ring Kit



K-4582

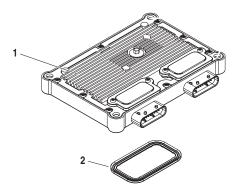
	Description	P/N	QTY
1	Countershaft Snap Ring	10003155	2
2	Input Shaft Snap Ring	10002982	1

Release Yoke Inspection Cover Kit



	Description	Part Number	QTY
1	Release Yoke Inspection Cover Assembly	A-10004414	1
2	Release Yoke Hous- ing Inspection Cover Cap Screws (M6x1.0x16)	X-8-0625M	2

Transmission Control Module (TCM) Kit



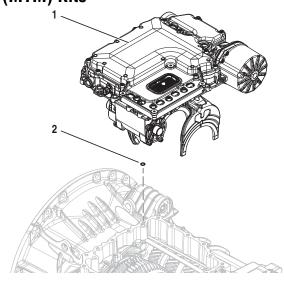
	Description	PN	QTY
1	TCM (NSS)	Varies	1
2	TCM Seal	10001587	1

Transmission Control Module (TCM) Kit Part Number Identification

Record Transmission Model and compare in table to determine TCM Kit part number.

TCM Type	TCM Part Number	Transmission Model	TCM Kit PN	TCM Kit PN at PACCAR
		EXD-xxF118D	K-4666	K-4666-PAC
A5	10003852	EXDP-xxF118D	K-4668	K-4668-PAC
AU	10003032	PXD-xxF118D		K-4667-PAC
		PXDP-xxF118D		K-4669-PAC

Mechatronic Transmission Module (MTM) Kits

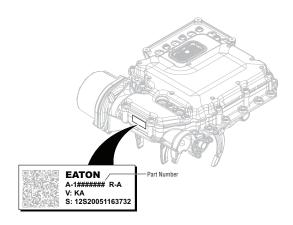


	Description	P/N	QTY
1	MTM (NSS)	Varies	1
2	I-Brake MTM to Main Housing O-ring	13653	1

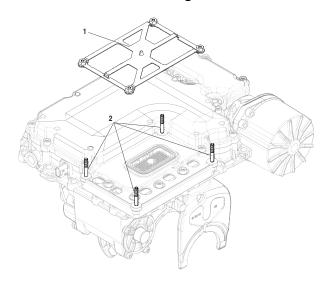
Mechatronic Transmission Module (MTM) Kit Part Number Identification

Record and compare transmission model number in table to determine MTM Kit part number.

MTM Type	MTM Part Number	Transmission Model	MTM Kit PN	MTM Kit PN at PACCAR
	A-10003241	EXD-xxF118D	- K-4566 K-4566-	K-4566-DAC
PS-490		EXDP-xxF118D		K-4300-FAG
F3-490	A-10004258	PXD-xxF118D		K-4656-PAC
	A-10004236	PXDP-xxF118D		- K-4030-PAU



TCM Cover and Mounting Stud

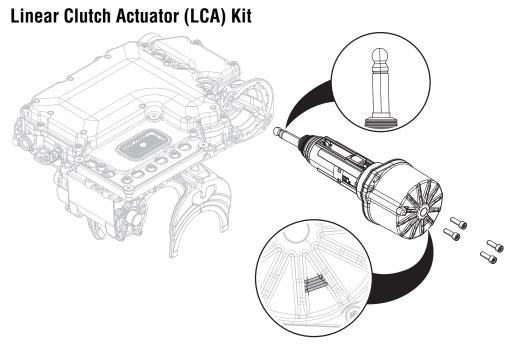


	Description	P/N	QTY
1	TCM Cover	4307675	1
2	TCM Mounting Stud (M6x50.0)	5577511-MP4	4

Sealant



Description	P/N	QTY
Anaerobic Sealant (50 ML / 1.69 Oz.)	5564561	1

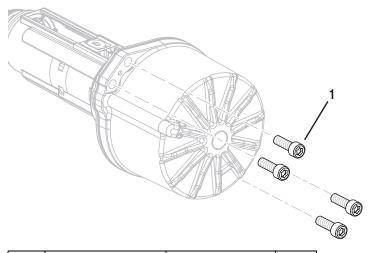


Note: Endurant XD Series LCA rod is 30mm longer than Endurant HD and is marked with an identifying groove on the end of the LCA shaft.

K-4576

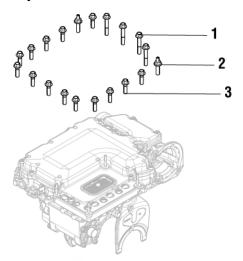
	Description	P/N	QTY
1	LCA	A-10004462	1

LCA Mounting Cap Screws



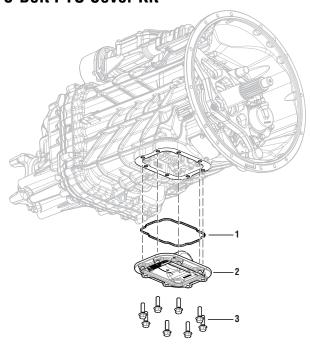
	Description	P/N	QTY
1	LCA Cap Screw (M8 X 1.25 X 30)	X-8-0847M-MP4	4

MTM Cap Screws



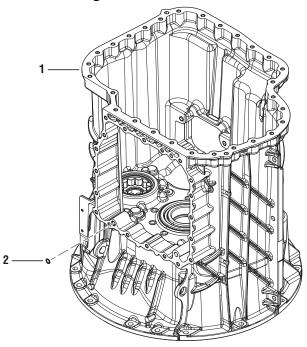
	Description	P/N	QTY
1	MTM Cap Screw, Long (M10X1.5X60)	10001222- MP4	4
2	MTM Cap Screw, Special (M10X1.5X38 & M8X1.25X13)	10001815- MP4	4
3	MTM Cap Screw (M10X1.5X35)	10001179- MP20	12

8-Bolt PTO Cover Kit



	Description	P/N	QTY
1	PTO Cover Seal	10003598	1
2	8-Bolt PTO Cover	10003508	1
3	PTO Cover Cap Screws (M12x1.75x40)	10001483- MP8	8

Main Housing Kit



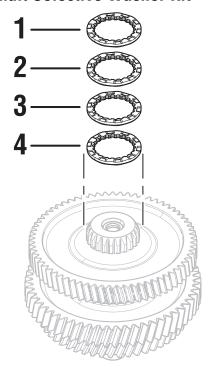
K-4533

	Description	P/N	QTY
1	Main Housing (NSS)	S-3260	1
2	I-Brake MTM to Main Housing O-ring	13653	1
3	8-Bolt PTO Cover O-ring	10003598	1
4	PTO Cover Cap Screws (M12x1.75x40)	10001483- MP8	8

Note: The Main Shaft End-Play procedure is required if the Main Housing is replaced. One of three Main Shaft Selective Washers are required to adjust end-play, Part Numbers: 10003459, 10003460, 10003461, 10003677 found in K-4586 Main Shaft Selective Washer Kit.

Note: S-3260 comes with 10004592 Countershaft Bearings and 10004591 Input Shaft Bearing installed.

Main Shaft Selective Washer Kit



K-4586

	Description	P/N	QTY
1	Main Shaft Washer 6.525 mm (0.257 in)	10003459	1
2	Main Shaft Washer 6.875 mm (0.271 in)	10003460	1
3	Main Shaft Washer 7.225 mm (0.284 in)	10003461	1
4	Main Shaft Washer 7.575 mm (0.298 in)	10003677	1

Note: The Main Shaft End-Play Service Procedure is required if one or more of the following components are replaced:

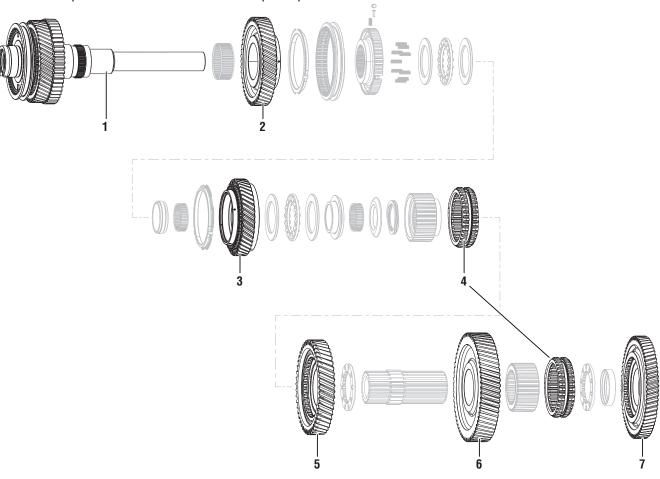
- Intermediate Housing
- Main Housing
- Any Main Shaft Component
- Input Shaft Bearing
- · Main Shaft Bearing



CAUTION: Failure to determine and install the Ideal Main Shaft Selective Washer results in incorrect Main Shaft End-Play and transmission component damage.

Main Shaft Components (Misc.)

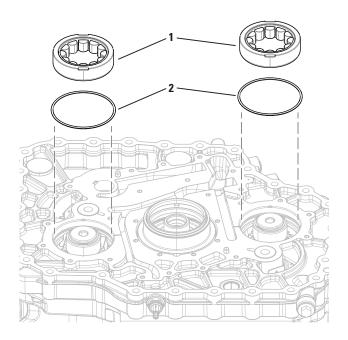
Note: The components shown below are sold as separate parts.



NOTICE: All listed components of the main shaft sold individually, not as a complete kit.

	Description	P/N	QTY		Description	P/N	QTY
1	Extension Shaft Sub-Assembly	S-3269	1	5	2nd Gear (L3)	10004728	1
2	Primary Drive Gear	S-3270	1	6	1st Gear (L4)	10004729	1
3	Splitter Gear	S-3268	1	7	Reverse Gear	10004730	1
4	Sliding Clutch	10004727	1				

Countershaft Bearing Kit

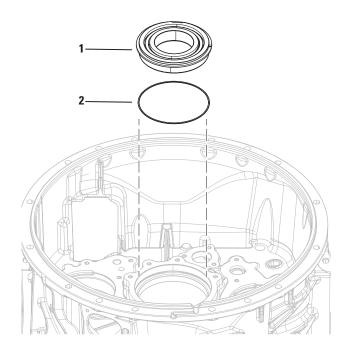


K-4584

	Description	P/N	QTY
1	Countershaft Bearings (NSS)	10004592	2
2	Countershaft Bearing O-rings	10004109	2

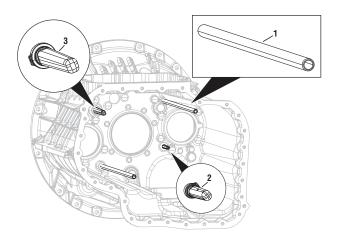
Note: Main Housing and Intermediate Housing use the same Countershaft Bearing part numbers. Reference Countershaft Bearing installation procedure for bearing orientation when pressing in new Countershaft Bearings.

Input Shaft Bearing Kit



	Description	P/N	QTY
1	Input Shaft Bearing O-ring	10004632	1
2	Input Shaft Ball Bearing (NSS)	10004591	1

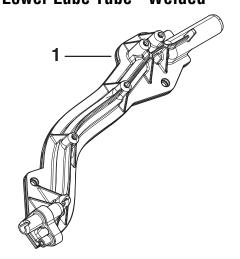
Transfer Oil Tubes



K-4537

	Description	P/N	QTY
1	Transfer Tube	10003408	2
2	Front Lower Lube Tube	10003561	1
3	Front Upper Lube Tube	10003563	1

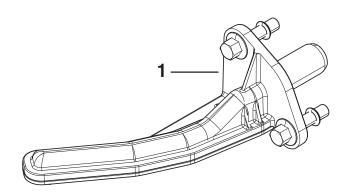
Rear Lower Lube Tube - Welded



K-4538

	Description	P/N	QTY
1	Rear Lower Tube Assembly	A-10003555	1

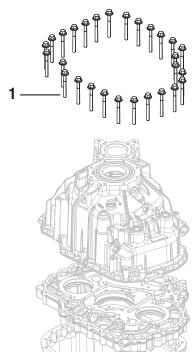
Rear Upper Lube Tube - Welded



K-4539

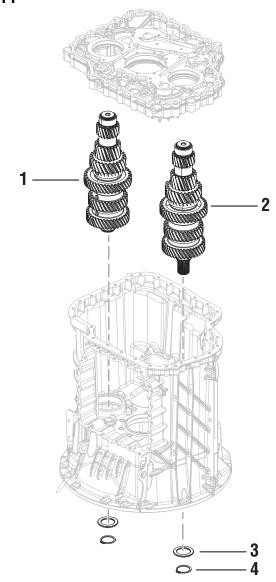
	Description	P/N	QTY
1	Rear Upper Lube Tube Assembly	A-10003559	1

Rear Housing to Main Housing Cap Screw



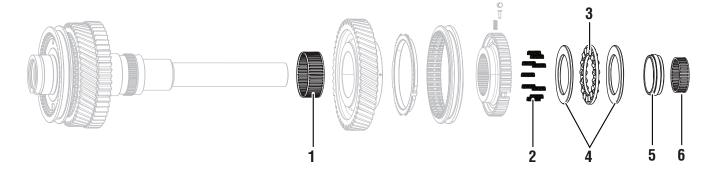
	Description	P/N	QTY
1	Main Housing Cap Screws (M10x1.75x40)	X-8F-1051M- MP28	28

Upper & Lower Countershaft Kit



	Description	P/N	QTY
1	Upper Countershaft	S-3226	1
2	Lower Countershaft	S-3227	1
3	Lower and Upper Countershaft Flat Washer	10003156	2
4	Lower and Upper Countershaft Snap Ring	10003155	2

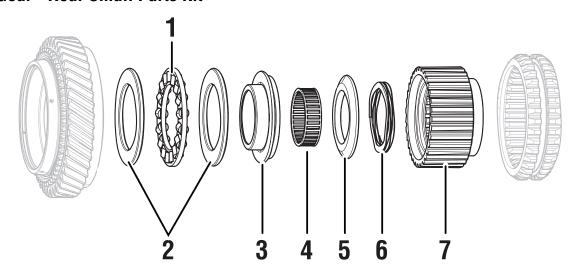
Drive Gear - Front Small Parts Kit



K-4674

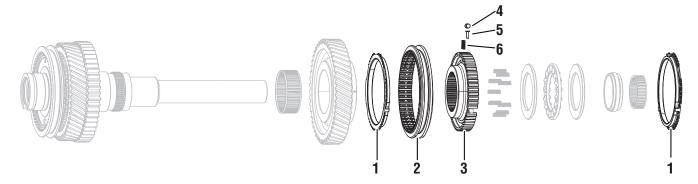
	Description	P/N	QTY		Description	P/N	QTY
1	Needle Bearing	10000546	1	4	Thrust Washer	10002967	2
2	Compression Spring	10002974	9	5	Race Thrust Washer	10004659	1
3	Mainshaft Thrust Bearing	10002972	1	6	Needle Roller Bearing	10002977	1

Drive Gear - Rear Small Parts Kit



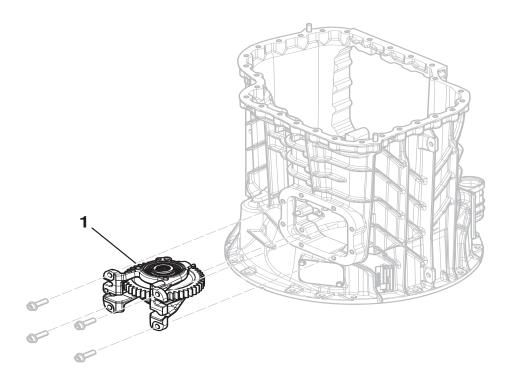
	Description	P/N	QTY		Description	P/N	QTY
1	Mainshaft Thrust Bearing	10002972	1	5	Spherical Washer	10003245	1
2	Thrust Washer	10002967	2	6	Wave Spring	10003462	1
3	Spherical Race	10004658	1	7	Clutch Hub	10003247	1
4	Needle Roller Bearing	10002977	1				

Rail B Synchronizer Parts Kit



	Description	P/N	QTY		Description	P/N	QTY
1	Synchronizer Ring	10002550	2	4	Synchronizer Roller	10001959	3
2	Sliding Sleeve	10001942	1	5	Synchronizer Plunger	10001711	3
3	Synchronizer Hub	10004657	1	6	Compression Spring	10001710	3

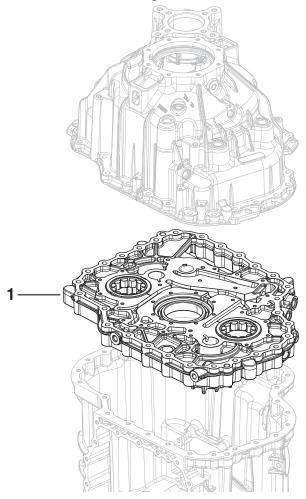
PTO Pillow Block



	Descrip	otion	P/N	QTY
1	PTO Pil Assemb	low Block oly	S-3255	1

Intermediate Housing Service Kits

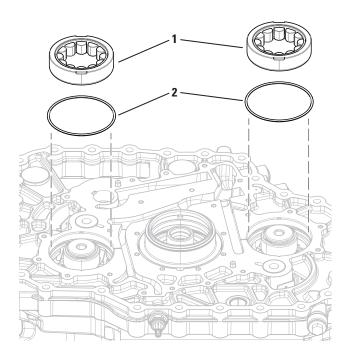
Intermediate Housing



	Description	P/N	QTY
1	Intermediate Housing	S-3258	1

Note: S-3258 comes with 10004592 Countershaft Bearings and 10004593 Intermediate Bearing installed.

Countershaft Bearing Kit

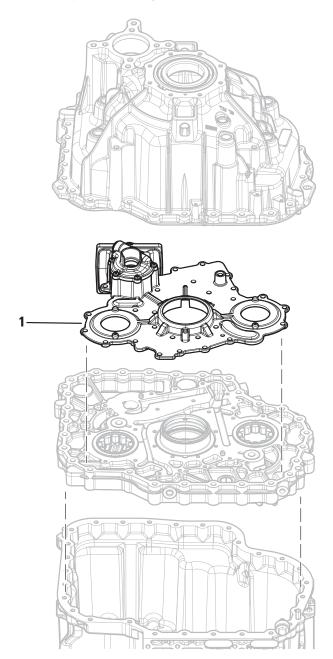


K-4584

	Description	P/N	QTY
1	Countershaft Bearings (NSS)	10004592	2
2	Countershaft Bearing O-rings	10004109	2

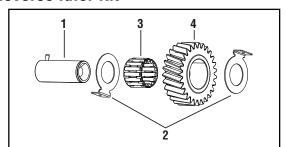
Note: Intermediate Housing and Main Housing use the same Countershaft Bearing part numbers. Reference Countershaft Bearing installation procedure for bearing orientation when pressing in new Countershaft Bearings.

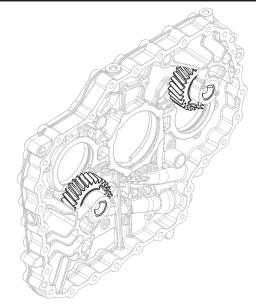
Oil Pump Assembly



	Description	D/M	ОТУ
	Description	P/N	uii
1	Oil Pump Assembly	S-3241	1

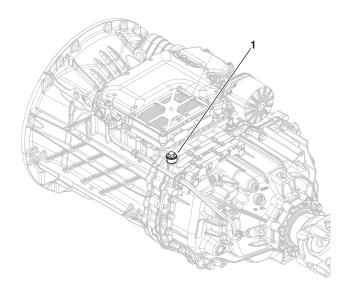
Reverse Idler Kit





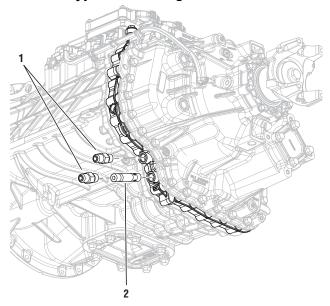
	Description	P/N	QTY
1	Reverse Idler Shaft	S-3240	2
2	Reverse Idler Thrust Washer	10003289	4
3	Reverse Idler Gear Bearing	10001013	2
4	Reverse Idler Gear	10003290	2

Breather



	Description	P/N	QTY
1	Breather	4304602	1

Cooler Bypass Cartridge Assemblies



K-4541 (Navistar)

	Description	P/N	QTY
1	JIC Fittings M22 X 1.5 to 12	10004235	2
2	Cooler Bypass Cartridge	S-3228	1

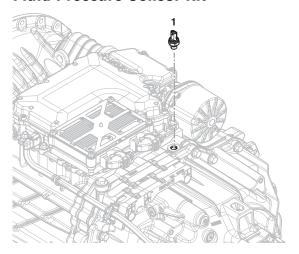
K-4542 (DTNA)

	Description	P/N	QTY
1	JIC Fittings M22 X 1.5 to VOSS QC	10004656	2
2	Cooler Bypass Cartridge	S-3228	1

K-4662 (PACCAR)

	Description	P/N	QTY
1	JIC Fittings M22 X 1.5 to 10	10004145	2
2	Cooler Bypass Cartridge	S-3228	1

Fluid Pressure Sensor Kit

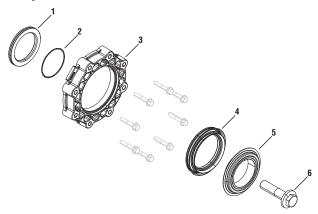


K-4387

		Description	P/N	QTY
Ī	1	Fluid Pressure Sensor	10004110	1

Rear Housing Service Parts and Kits

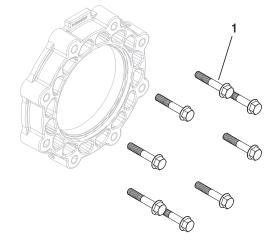
Output Seal Kit



K-4578

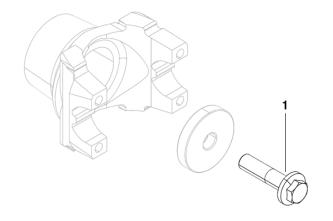
	Description	P/N	QTY
1	Thrust Washer* (NSS)	10004098	1
2	O-ring* (NSS)	5568511	1
3	Rear Bearing Cover (NSS)	10000798	1
4	Output Shaft Seal* (NSS)	4302322	1
5	Wear Sleeve and Dust Cover* (NSS)	S-3263	1
6	Output Yoke Retainer Bolt* (M20x1.5x80)	10000949	1

Rear Bearing Cover Cap Screw



	Description	P/N	Qty
1	Rear Bearing Cover Cap Screw (M8X1.25X45)	10001172 -MP8	8

Output Yoke Retainer Bolt

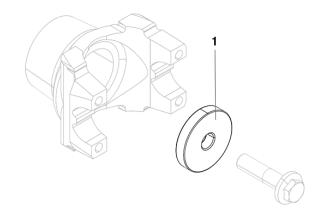




WARNING: A new Retainer Bolt is required during Output Yoke installation. Failure to replace the Retainer Bolt may cause a re-used Retainer Bolt to loosen during operation and may result in major vehicle component damage, severe injury or death.

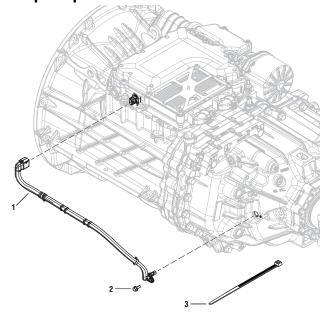
	Description	P/N	QTY
1	Output Yoke Retainer Bolt* (M20x1.5x80)	10000949	1

Output Yoke Retainer Plate



	Description	P/N	QTY
1	Retainer Plate	10000950	1

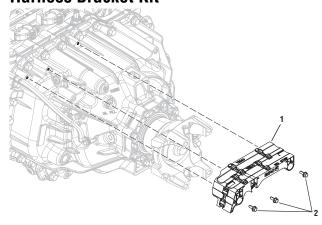
Output Speed Sensor Kit



K-4381

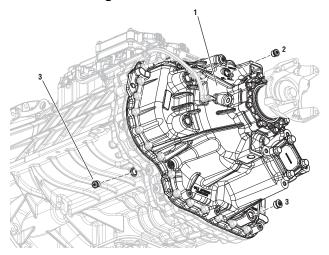
	Description	P/N	QTY
1	Output Speed Sensor Assembly (NSS)	10001792	1
2	Output Speed Sensor Cap Screw (M6x1.0x16)	X-8-0625M	1
3	Cable Tie	5559348	2

Harness Bracket Kit



	Description	P/N	QTY
1	Harness Bracket	10003551	1
2	Harness Bracket Cap Screw (M6X1.0X16)	X-8-0625M	3

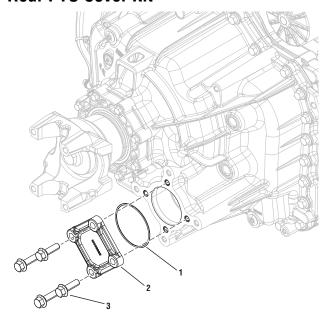
Rear Housing Kit



K-4591

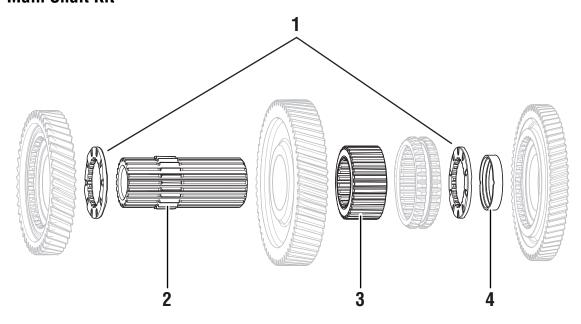
	Description	P/N	QTY
1	Rear Housing Assembly and Lube Tube	S-3264	1
2	Oil Fill Plug	4308230	1
3	Oil Drain and Check Plug (M22x1.5)	4308229	2
Kit	Rear Bearing Cover/ Output Seal Kit	K-4578	1

Rear PTO Cover Kit



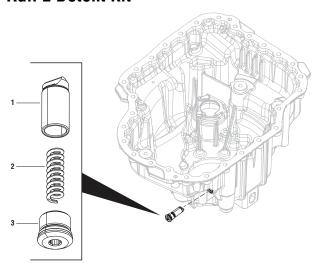
	Description	P/N	QTY
1	Rear PTO Cover O-ring	22467	1
2	Rear PTO Cover (NSS)	10003322	1
3	Rear PTO Cover Cap Screw (M12x1.75x40)	10001483	4

Rear Main Shaft Kit



	Description	P/N	QTY
1	Mainshaft Washer	10003459	2
2	Mainshaft	10003256	1
3	1st Clutch Hub	10003246	1
4	Reverse Spacer	10004131	1

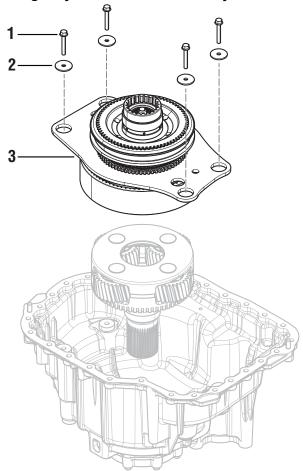
Rail E Detent Kit



K-4579

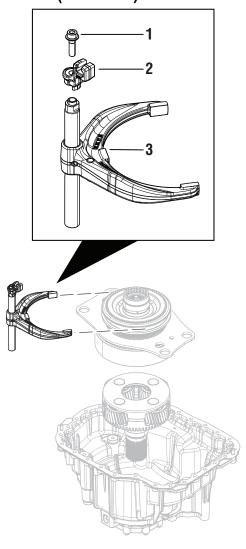
	Description	P/N	QTY
1	Rail E Detent (NSS)	10004352	1
2	Rail E Detent Spring (NSS)	10001120	1
3	Rail E Detent Plug (M22x1.5)	4308229	1

Range Synchronizer Assembly Kit



	Description	P/N	QTY
1	Range Synchronizer Cap Screw	(M8 x 1.25 x 55) 10001167	4
2	Range Synchronizer Washer (M8)	10001168	4
3	Range Synchronizer Assembly (NSS)	S-3257	1

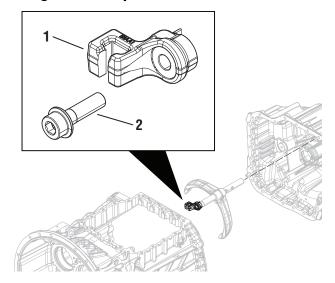
Shift Rail E (and Yoke)



K-4592

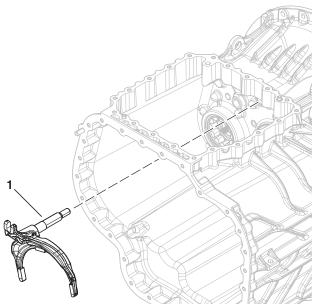
	Description	P/N	QTY
1	Cap Screw (M10 x 1.5 x 35)	10003823	1
2	Range Bar Coupler	10003488	1
3	XD Rail E Shift Fork	S-3265	1

Range Bar Coupler



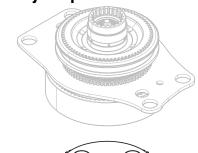
K-4594

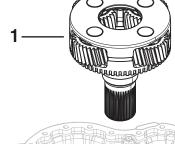
	Description	P/N	QTY
1	Range Bar Coupler	10003488	1
2	Cap Screw (M10 x 1.5 x 35)	10003823	1

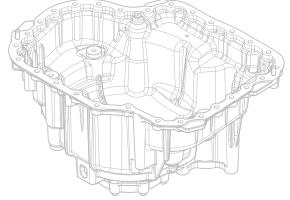


	Description	P/N	QTY
1	Rail A Shift Yoke Assembly	A-10003154	1

Planetary Output Shaft Assembly









K-4593

	Description	P/N	QTY
1	Planetary Output Shaft Assembly	(NSS) S-3266	1
2	Output Bearing	10004594	1

Lubricant

PS-386 XD Series Synthetic Transmission Lubricant

Description	P/N	QTY
1 Gallon Jug	5564546-M4	4
5 Gallon Pail	5564543	1
55 Gallon Drum	5564544	1

TRPB0960 Appendix | Change Log

Change Log

Date	Description
April 2024	Numerous kits added to reflect changes in TRSM0960. Changes to TCM Kits. Drive gear rear small parts kit added.
November 2023	Document Created

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