



FO-12E309ALL-VMS

Eaton Fuller Transmission — Illustrated Parts List

Call 877-776-4600 for parts & pricing

Pro Gear & Transmission, Inc. · 906 W Gore St, Orlando FL 32805 · www.progearandtransmission.com

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Contents

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

1. AFTERMARKET TRANSMISSIONS
2. AUXILIARY DRIVE GEAR
3. CASE (AUX)
4. CASE (FRONT)
5. COMBINATION CYLINDER
6. CONTROLLER ECU & HARNESS
7. COUNTERSHAFT & BRGS(AUX)
8. COUNTERSHAFT ASSY
9. ELECTRIC CLUTCH ACTUATOR
10. FILTER REGULATOR
11. HEAT EXCHANGER
12. INPUT SHAFT & DRIVE GEAR
13. INTEGRAL OIL PUMP
14. KITS & ASSEMBLIES
15. MAINSHAFT & SYNCHRO(AUX)
16. MAINSHAFT ASSY
17. OIL FILTER
18. REVERSE IDLER
19. SHIFT BAR HOUSING
20. SHIFT CONTROLS
21. X-Y SHIFTER MODULE

AFTERMARKET TRANSMISSIONS

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



BACKED BY
Roadranger
SUPPORT

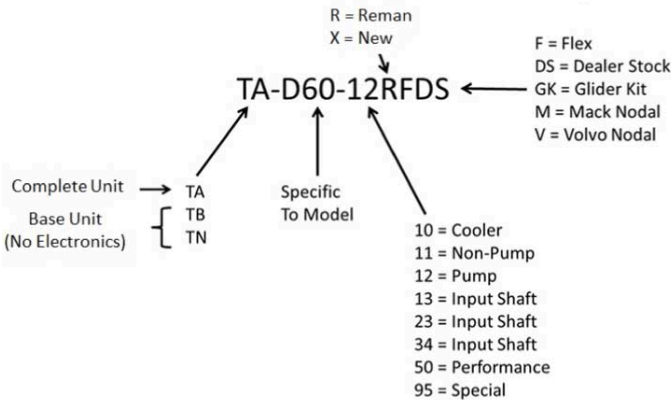


UltraShift Plus Transmission

AFTMKT 09U-12

Generic Illustration - Not specific to part numbers listed below

Transmission Part Number Description

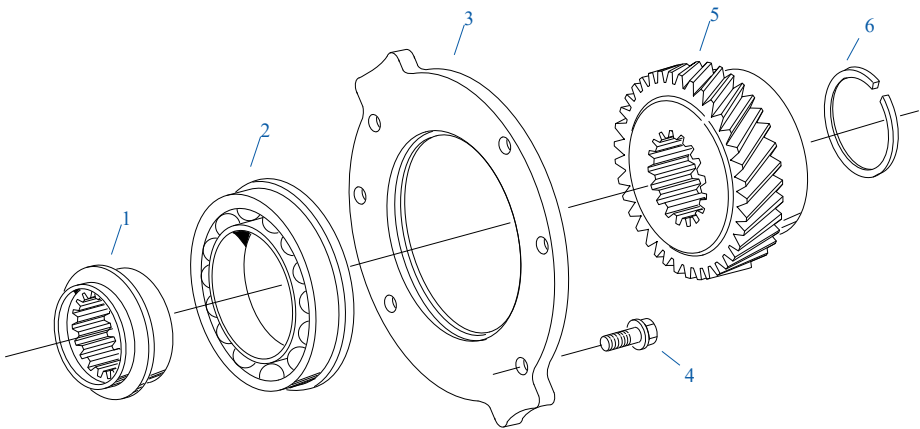


Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
	TN-J58-12R	FO-12E309ALL-VMS REMAN TRANS		1	WITH INTERNAL PUMP	
	TN-J58-12X	FO-12E309ALL-VMS EXCHANGE UNIT	TA-J58-12X	1	WITH INTERNAL PUMP - NO CLUTCH HOUSING	

AUXILIARY DRIVE GEAR

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



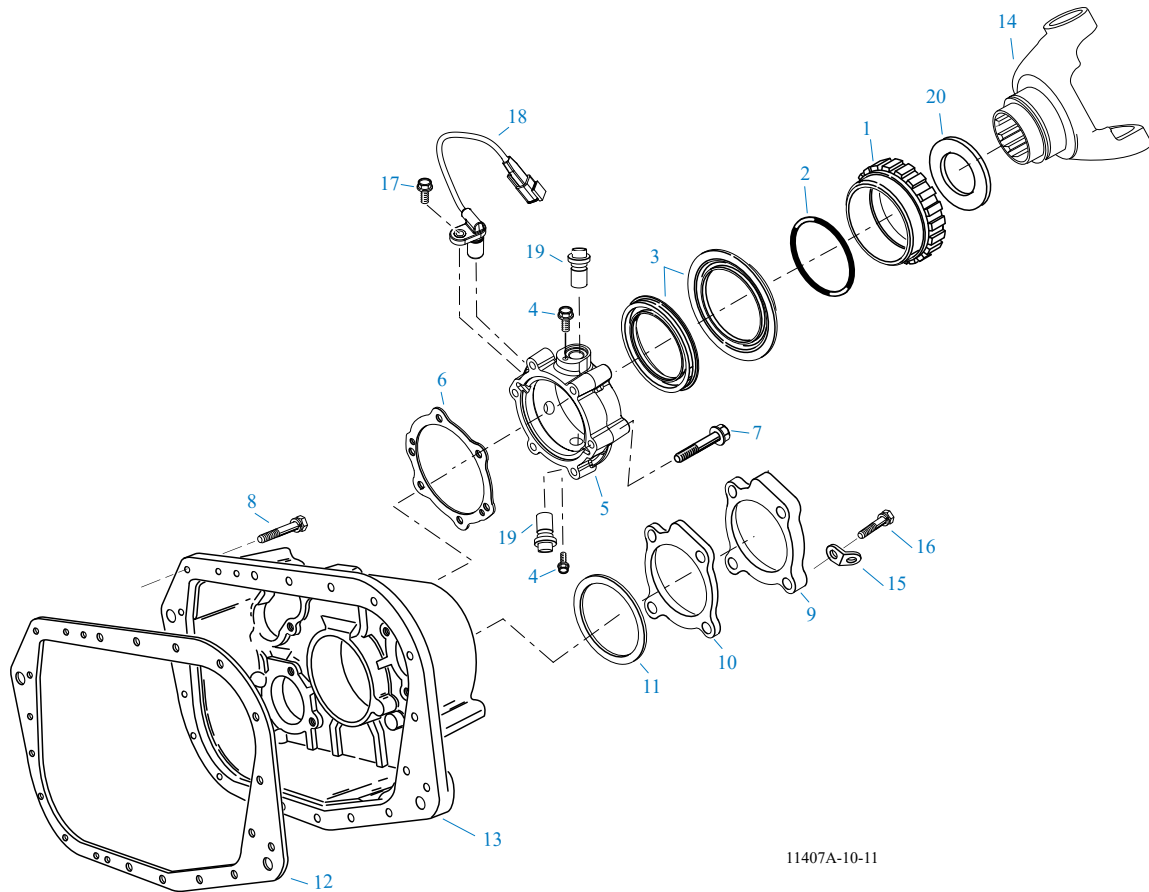
10486-9-94 C2

Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	4306291	NO LONGER AVAILABLE - SPACER		1		
2	5566508-BOX	BEARING	5566503,5566508	1		K-3942
3	4300894	RETAINER		1		
4	X-8-645	CAPSCREW	X 8 612	6	3/8"-16X1"	
5	4303357	AUXILIARY DRIVE GEAR		1		
6	16763	SNAP RING		1		K-3942,K-4140

CASE (AUX)

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



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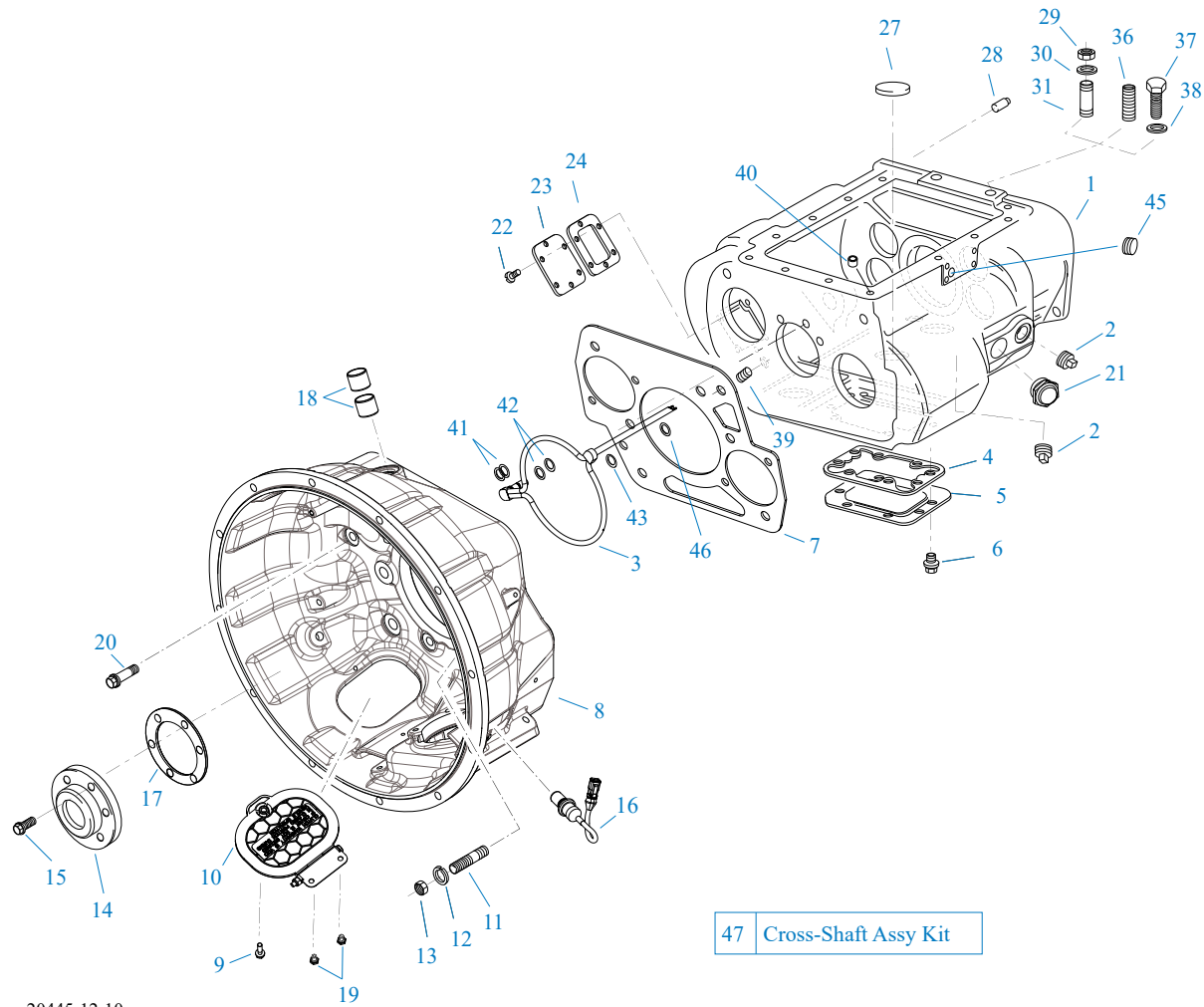
Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	S-2501	SPEEDO ROTOR ASSY	4302242	1	MAGNETIC	
2	5568511	O-RING		1		K-2918,S-2501,S-3106
3	K-2918	OIL SEAL KIT	4302322 4302323	1	"FOR MAGNETIC COVER"	K-3942
4	X-8-0801M	CAPSCREW		2	M8 X 1.25 X 12MM	S-3106
5	S-3106	REAR BEARING COVER ASSY	4306498	1		
6	1009551	GASKET - RED EDGE MOLDED		1		K-2918,K-3940,S-3106
7	X-8L-611	CAPSCREW		4	3/8"-16X3-1/4"	S-3106
7	X-8L-614	CAPSCREW		2	3/8"-16X2"	S-3106
8	X-8L-602	CAPSCREW		16	3/8"-16X1-1/2"	
8	X-8L-614	CAPSCREW		2	3/8"-16X2"	S-3106
8	X-8L-616	CAPSCREW	X 8 616	1	3/8"-16X2-3/4"	
9	4302320	COVER	21346	2		
10	4309436	GASKET	4302246,4305978,4307247	2		K-3547,K-3940
11	K-2805	SHIM KIT	21452 K - 2106	1		K-3942
12	14335	GASKET		1		K-3940
13	4306306	REAR HOUSING		1		
14	5505547	YOKE-1810 HALF ROUND		1		
15	20815	LIFTING EYE	17105	2		
16	X-8L-604	CAPSCREW		8	3/8"-16X1-1/4"	K-3547

17	X-8C-409	CAPSCREW		1	1/4"-20X5/8"	K-3947,K-4149
18	K-3947	DIRECTIONAL SPEED SENSOR KIT	4306497	1	ALL-VMS parts list	
19	K-3523	SPEEDO PLUG KIT	4302707	2		
20	4304653	SHIELD		1		S-3106

CASE (FRONT)

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



47 Cross-Shaft Assy Kit

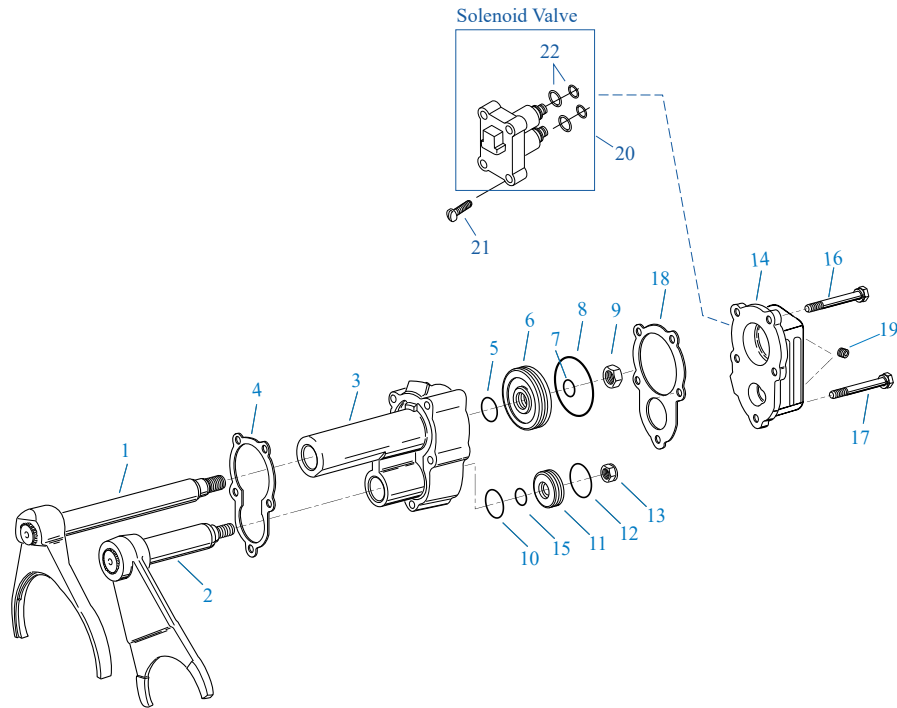
Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	S-3125	CASE ASSY	4306101, 4308768	1		
2	4304023	PLUG	4303747	2	1-1/16" MAGNETIC, O-RING INCLUDED	
3	A-7822	EXTENDED LUBE TUBE ASSY	4306102	1		
4	4305310	GASKET	4302810	1		K-3940
5	4302809	PTO COVER	16596 ,4300571	1		
6	X-8-725	CAPSCREW	X 8 724	8	7/16"-14X7/8"	
7	4308226	GASKET, CLUTCH HOUSING	4304815,4305668,4306584	1		K-3940,K-4145CL
8	A-8118	CLUTCH HOUSING ASSY, NODAL	4306906	1	NODAL	
8	A-8651	CLUTCH HOUSING ASSY	4307000,A-8117	1	STANDARD	
9	X-8F-458	HEX HEAD WASHER/SCREW	X-8C-401	1	(.25 - 20 X 1.25)	K-4088
10	K-4088	HAND HOLE COVER KIT	4306459	1		
11	4306583	STUD	5966	4	FOR CLUTCH HOUSING	
11	5577005	STUD		2	(.625 X 3.75), FOR LCIB	

12	X-10-1005	WASHER	X 3 1000 ,X10 1000 ,X10 1004	6	1.23 X 6.60	K-4134CL
13	X-1-1012	HEX NUT	Pro Gear & Transmission - 877-776-4600 - FO-12E309ALL-VMS parts list X-1-1005	6	.625-18	K-4134CL
14	4308012	FRONT BEARING COVER		1	MUST BE USED WITH 4308011 INPUT SHAFT	K-4144,K-4145CL
14	K-4144	INPUT SHAFT REPLACEMENT KIT	4306466	1		
15	X-8L-604	CAPSCREW		6	3/8"-16X1-1/4"	K-3547
16	K-4149	SPEED SENSOR KIT	K-3938	1		
17	14311	GASKET		1		K-3940,K-4142
18	12815	BUSHING		2		K-4036
19	X-8-423	CAPSCREW		2	1/4"-20X1/2"	K-4088
20	X-8C-830	HEX HEAD SCREW/WASHER ASSY	X-8C-826	6	.500-13 X 1.490	
21	4305740	SIGHT PLUG (1.625 - 12UN)	4304123,4305550,4308157	1		
22	X-8-686	CAPSCREW		6	3/8"-16X3/4"	
23	14575	PTO COVER	4302254	1		
24	4305309	GASKET	1684	1		K-3940
27	14373	MAGNET		3		S-3125
28	18128	PIN		2		
29	X-1-1012	HEX NUT		2	.625-18	K-4134CL
30	X-10-1005	WASHER	X 3 1000 ,X10 1000 ,X10 1004	2	1.23 X 6.60	K-4134CL
31	14554	STUD	1632 ,6579	2	5/8" X 2-3/16"	
36	23104	PLUG	1712	2		
37	X-8-1005	CAPSCREW		2	5/8"-11X1-1/4"	
38	20814	SPACER		2		
39	X-12-802	PIPE PLUG	X12 800	1	1/2"	
40	691447	PIN		1		
41	13835	-O- RING		2		
42	13653	-O- RING		2		K-2908
43	5568544	-O- RING		1		
45	X-12-1212	PIPE PLUG		1		
46	13834	-O- RING		1		
47	K-4036	CROSS-SHAFT ASSEMBLY KIT		1		K-4145CL

COMBINATION CYLINDER

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



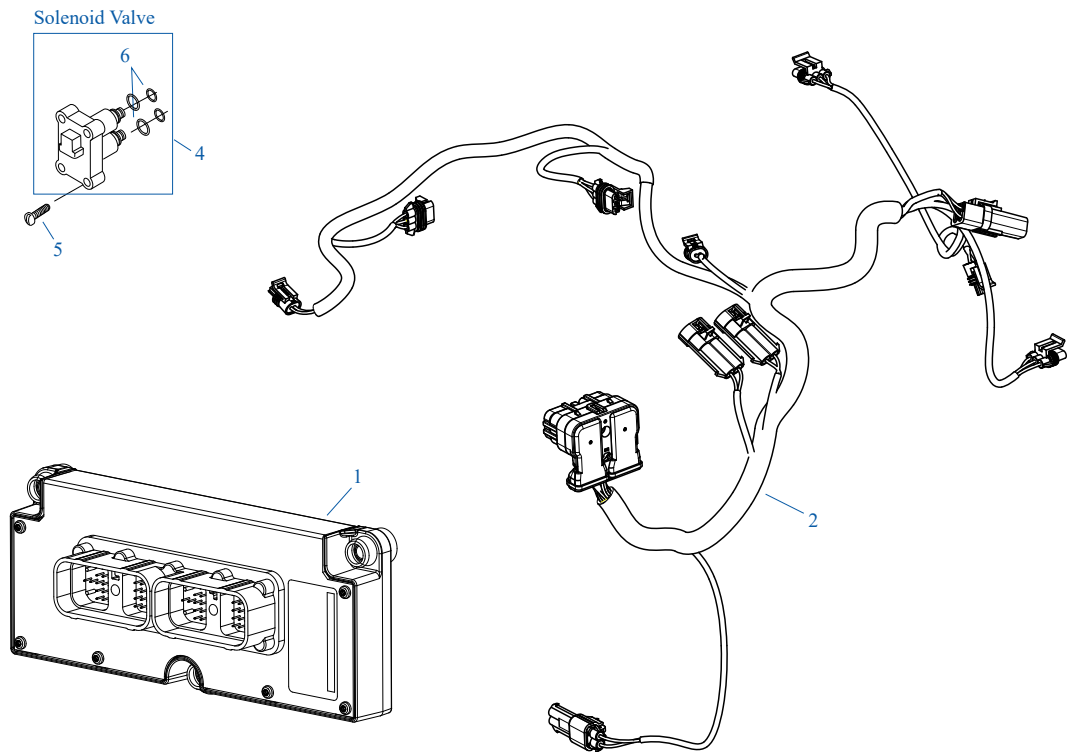
10476-10-11

Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	A-5159	YOKE ASSY	21333	1	RANGE	
2	A-5160	YOKE ASSY	21335	1	REDUCTION	
3	4306470	CYLINDER		1		
4	21332	GASKET		1		K-3940,K-4014
5	14765	-O- RING		1		K-4014
6	14341	PISTON	23353	1		
7	14345	-O- RING		1		K-4014
8	14344	-O- RING		1		K-4014
9	X-1-1010	NUT		1	5/8"-18	K-4014
10	14644	-O- RING		1		K-4014
11	K-2427	PISTON KIT	21337 ,4301320	1		
12	20423	-O- RING		1		K-4014
13	X-1-803	NUT		1	1/2"-20	K-4014
14	K-4013	COMBINATION CYLINDER COVER KIT	4306420	1		
15	4301348	-O- RING		1		K-2427,K-4014
16	X-8C-631	SCREW, HEX HD/WASHER ASSY		3	.375-16X3.500	
17	X-8C-6119	SCREW, HEX HD/WASHER ASSY		2	.375-16 X 6.750	
18	4306435	CYLINDER COVER GASKET		1		K-3940,K-4013,K-4014
19	X-12-208	PIPE PLUG		4		K-4013
20	K-3682	RANGE/SPLITTER VALVE KIT	5561801 ,5561804 ,K - 2907	2		
21	X-8-264	HEX FLANGE HEAD SCREW	X 8 259	8	#10-24 X 1 1/4	
22	K-2908	-O- RING KIT		2	FOR SOLENOID VALVE	

CONTROLLER ECU & HARNESS

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



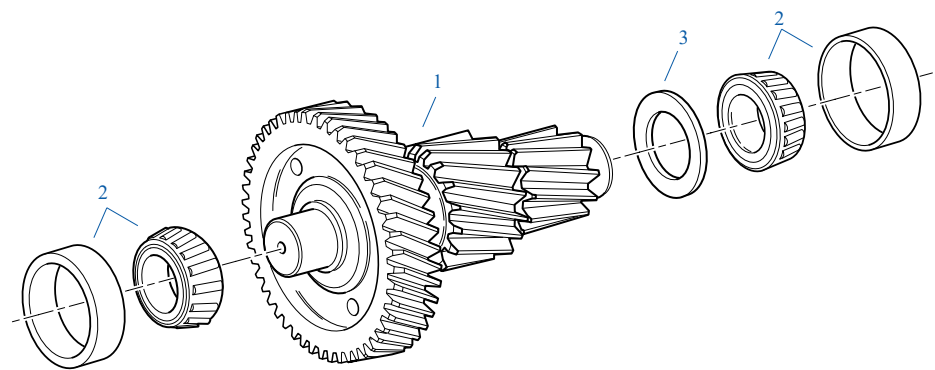
20322A-10-11

Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	K-4313	ECU ASSEMBLY KIT (VMS)	K-3931	1		
2	K-3983	TRANSMISSION HARNESS KIT	4307038	1	FOR USE WITH GEN 1 ECA (4306651)	
2	K-4257	TRANSMISSION HARNESS KIT	4308612	1	FOR USE WITH GEN 2 ECA (125872)	
4	K-3682	RANGE/SPLITTER VALVE KIT	5561801 ,5561804 ,K - 2907	1		
5	X-8-264	HEX FLANGE HEAD SCREW	X 8 259	4	#10-24 X 1 1/4	
6	K-2908	-O- RING KIT		1	FOR SOLENOID VALVE	

COUNTERSHAFT & BRGS(AUX)

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



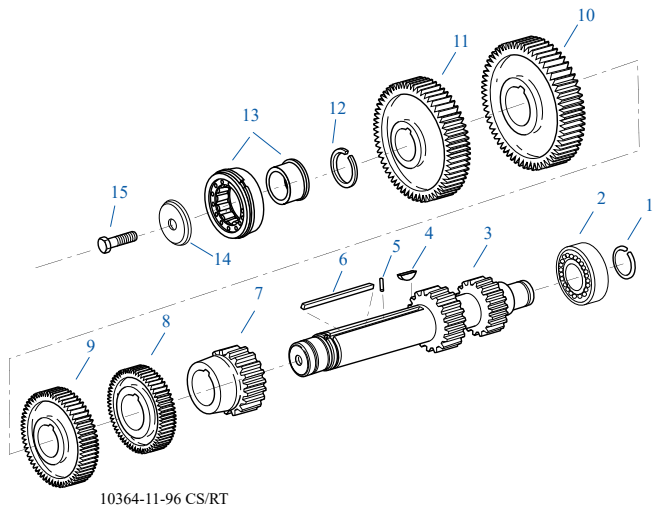
10445-12-93 AUXCS

Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	A-6844	WELDED COUNTERSHAFT ASSY	A - 6431 ,A - 6842	2	D/G 4303938 - C/S 4303936	
2	4302074-BOX	BEARING	21343,4302074	4		K-3942
3	21342	SPACER		2		

COUNTERSHAFT ASSY

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS

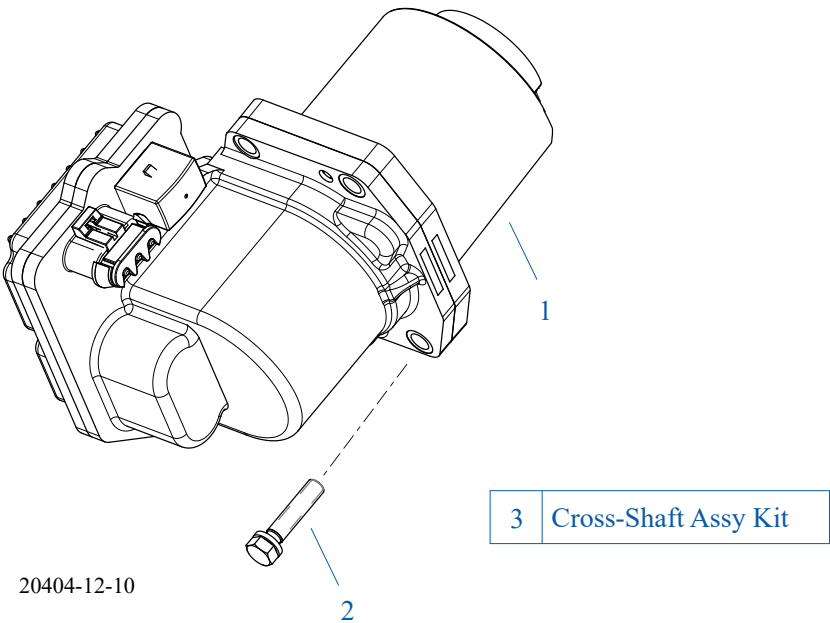


Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	14317	SNAP RING		2		K-3942,K-4140
2	4308452	BEARING	14366,4303031	2		K-3942
3	4304733	CNTRSHFT W/REV & LO		2		
4	230292	KEY	X-6-E	2		
5	62511	ROLL PIN		2		
6	4304840	KEY	19673	2		
7	21025	1ST GEAR-CNTRSHFT		2		
8	21264	2ND GEAR-CNTRSHFT		2		
9	21262	NO LONGER AVAILABLE - GEAR, C/S		2		
10	15953	PTO GEAR - LOWER		1		
10	20840	PTO GEAR - UPPER		1		
11	4305665	DRIVE GEAR-CNTRSHFT	21018,4305069	2		
12	19198	SNAP RING		2		K-3942,K-4140
13	4308397	MAIN CASE COUNTERSHAFT BEARING – FRONT	4302677, 4304598, 4306332,4304599	2		K-3942
14	4304605	RETAINER		2		
15	X-7-1005	CAPSCREW		2	5/8"-18X1-3/4"	

ELECTRIC CLUTCH ACTUATOR

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS

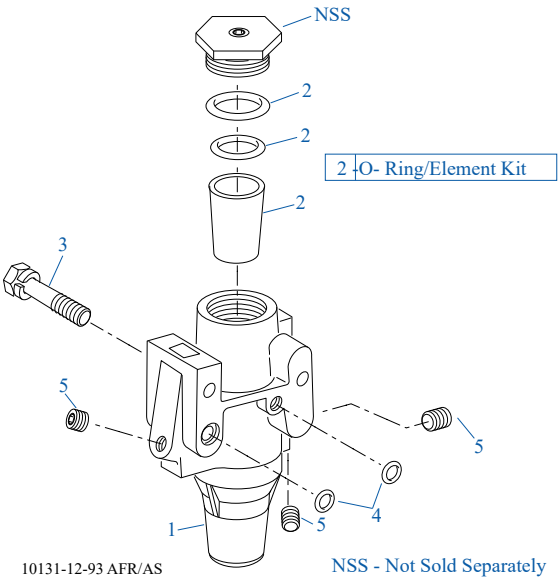


Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
0	K-4103	GEN 1 ECA SHIELD KIT	A-8155, A-8602	1	TO BE USED WITH 4306651 GEN 1 ECA ONLY	
1	K-4252RX	GEN 2 ECA KIT (HARNESSES & SHIELD)	K-3936RX, 4306651,K-4252	1	ORDER THIS KIT TO REPLACE GEN 1 PLASTIC HOUSING ECA, THE KIT INCLUDES ADAPTER HARNESSES & SHIELD, REFERENCE TAIB0862	
1	K-4253RX	GEN 2 ECA KIT (NO HARNESS / NO SHIELD)	125872,K-4253	1	LATEST DESIGN ECA, CAST HOUSING, THIS KIT DOES NOT INCLUDE ANY HARNESSES OR SHIELD	
2	X-8L-609	CAPSCREW		4		K-4036
3	K-4036	CROSS-SHAFT ASSEMBLY KIT		1		K-4145CL

FILTER REGULATOR

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	K-2170	FILTER REG KIT	A - 5454	1		
2	K-1698	-O- RING/ELEMENT KIT		1	FOR FILTER REGULATOR	
3	X-8C-412	CAPSCREW	X 8S 412	2	1/4"-20X2-1/4"	
4	15114	-O- RING		2		K-2170,K-4013,K-4014
5	X-12-208	PIPE PLUG		3	1/8" NPT	K-4013

HEAT EXCHANGER

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS

EXTERNAL OIL - TO - WATER COOLER (Heat Exchanger)

Moun t Location	Current Part #	Old Part #	Service Kit Part #	Assembly Kit Part #'s with hose adaptors	Assembly Kit Part #'s with hose adaptors and hoses	Oil Line Parts #'s	Moun ting Bracket Part #'s
Top Right Side	558664 1	558662 5 558660 0	K-395 2	K-396 3	K-335 7	5588101 (14.5") 5588102 (26.5")	N/A
	558664 2	558662 6 558660 1	K-395 3	K-396 4	N/A	5588101 (14.5") 5588102 (26.5")	N/A
	558666 2	558664 3 558662 7 558660 2	K-395 4	K-396 5	K-335 9	5588101 (14.5") 5588105 (40.0")	N/A
	558666 5	558664 6 558663 0 558660 6	K-395 7	K-396 9	K-397 6	5588101 (14.5") 5588102 (26.5")	N/A
	558664 9	558663 3 558660 9	K-395 9	K-397 2	K-3968 (1 hose) K-3975 (2 hoses)	5588102 (26.5") 5588103 (30.0")	N/A
	558665 0	558663 4 558661 0	K-396 0	K-397 3	N/A	5588114 (24.5") 5588115 (19.5")	N/A
	558665 1	558663 5 558661 1	K-396 1	K-397 4	N/A	5588101 (14.5") 5588106 (40.0") 5588122 (17.0")	N/A
	558665 2	558663 6 558662 3	K-389 6	K-396 2	N/A	5588105 (21.5") 5588106 (40.0") 5588122 (17.0")	N/A
Top Left Side	558666 3	558664 4 558662 8 558660 3	K-395 5	K-396 6	K-335 8 K-363 3	5588109 (28.0") 5588116 (37.0") 5588106 (40.0")	N/A
	558665 2	558663 6 558662 3	K-389 6	K-396 2	N/A	5588105 (21.5") 5588106 (40.0") 5588122 (17.0")	N/A
	558667 2	558665 3 558663 8	K-389 7	N/A	N/A	5588114 (24.5") 5588123 (15.0")	N/A
Top Front	558667 3	558665 4 558663 9	K-389 8	N/A	N/A	5588102 (26.5") 5588127 (36.5")	4306145 , 4306408 , or 4306409 Order K-3943 for RT Models Order K-3944 for FR Models
Top Back	558664 7	558663 1 558660 7	K-395 8	K-397 0	K-340 3	5588111 (50.0") 5588116 (48.0") 5588112 (48.0")	4304794 or 430706 1 Order K-390 3
Bottom Back	558666 4	558664 5 558662 9 558660 4	K-395 6	K-396 7	K-335 6 K-363 4	5588107 (45.0") 5588108 (52.0")	4304665 or 430641 2 Order K-390 2
	558666 7	558664 8 558663 2 558660 8	K-389 5	K-397 1 (include s bracket)	K-340 4	5588110 (57.5") 5588113 (51.0")	4304795 or 430641 0 Order K-390 0

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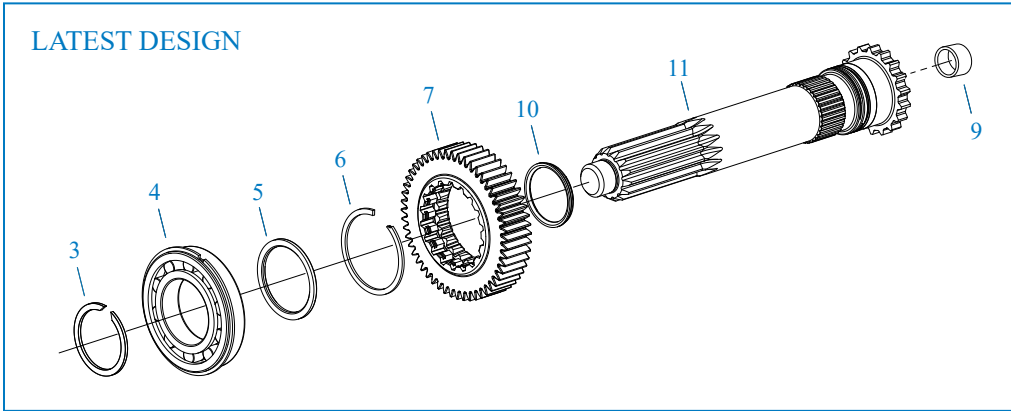
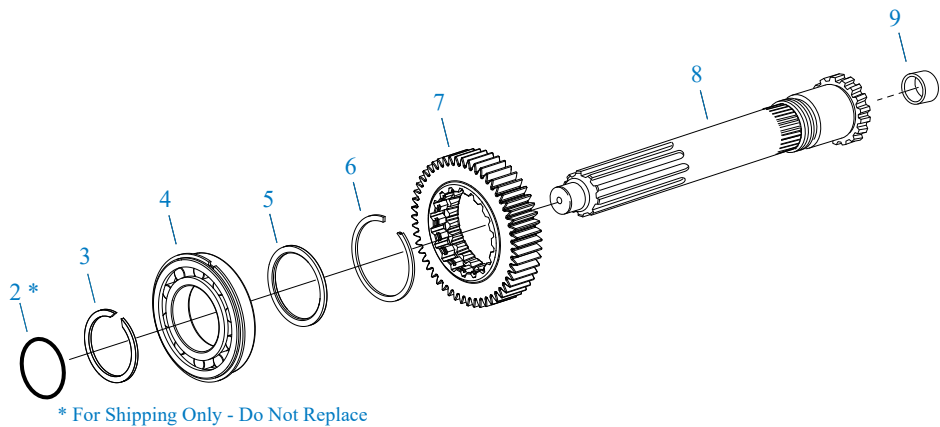
FOR ADDITIONAL INFORMATION CONTACT EATON AT 1-800-826-4357.

Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	HEAT EXCHANGERS	SEE ILLUSTRATION ABOVE		1		

INPUT SHAFT & DRIVE GEAR

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



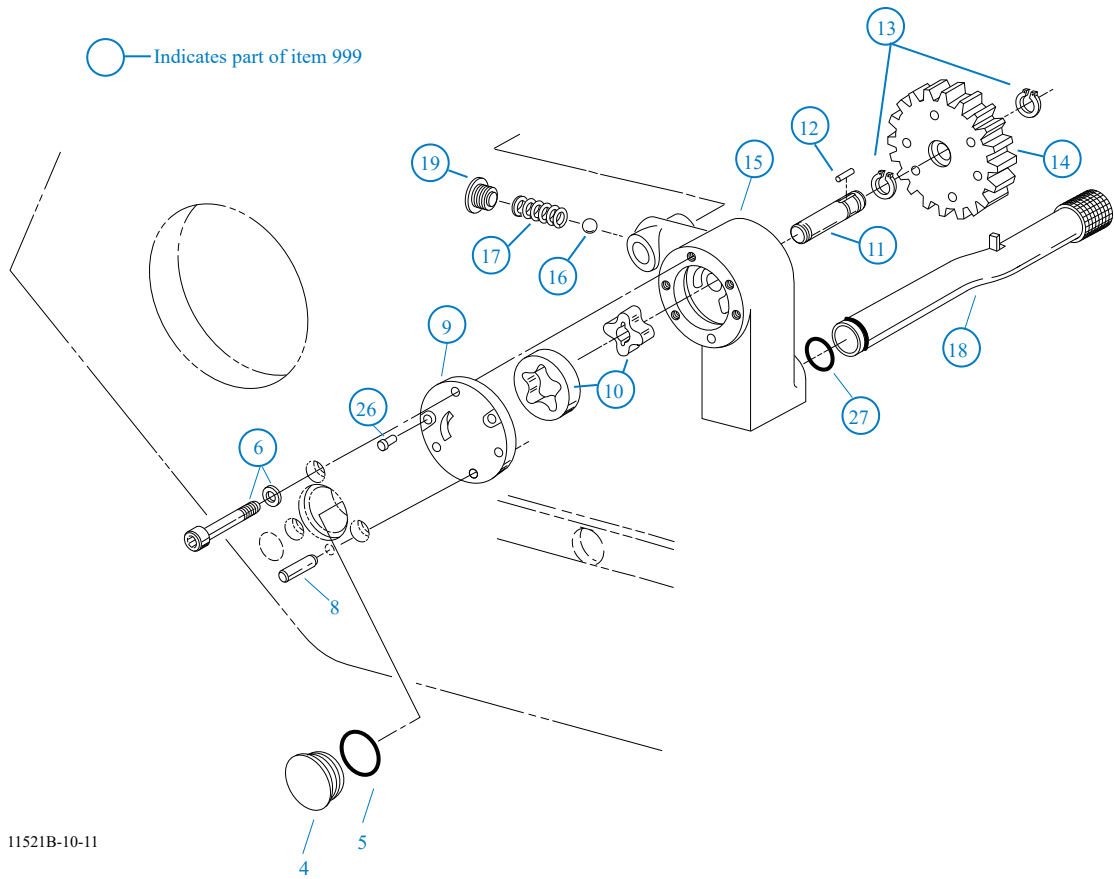
10370C-01-11

Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
2	5568554	O-RING		1	NOT SOLD FOR SERVICE	
3	16980	SNAP RING		1		K-3942,K-4140,K-4143,K-4145CL
4	4308401	SHIELDED ROLLER BEARING	4301417,4308161	1		K-3942,K-4145CL
5	16463	SPACER		1		
6	14750	SNAP RING		1		K-3942,K-4140,K-4144,K-4145CL
7	22961	MAIN DRIVE GEAR		1		
8	K-4144	INPUT SHAFT REPLACEMENT KIT	4306467,S-3078	1		
9	16566	BUSHING		1		K-3942
10	K-4142	SEAL KIT	23559	1		K-4143,K-4145CL
11	K-4143	INPUT SHAFT KIT	4308011,S-3127	1	MUST BE USED WITH 4308012 FRONT BEARING COVER	K-4144

INTEGRAL OIL PUMP

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
4	20823	PLUG		1		
5	14765	-O- RING		1		K-4014
6	K-4126	FASTENER KIT	20824, X-8-448	1	KIT CONTAINS 3 FASTENERS AND 3 WASHERS	K-3367
8	20825	DOWEL PIN		1		
9	4303773	RETAINER		1		
10	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		
11	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		
12	20509	KEY		1		
13	14853	SNAP RING		2		
14	4303774	PUMP DRIVE GEAR	4304880	1		
15	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		
16	X-14-700	STEEL BALL		1	7/16"	
17	4303775	SPRING		1		
18	4305713	SUCTION TUBE	4304628	1	O-RING INCLUDED ON SUCTION TUBE	K-3367
19	4304629	PLUG		1		

26	X-8-447	SCREW		2
27	20225	-O- RING	Pro Gear & Transmission · 877-776-4600 · FO-12E309	1
999	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1

KITS & ASSEMBLIES

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



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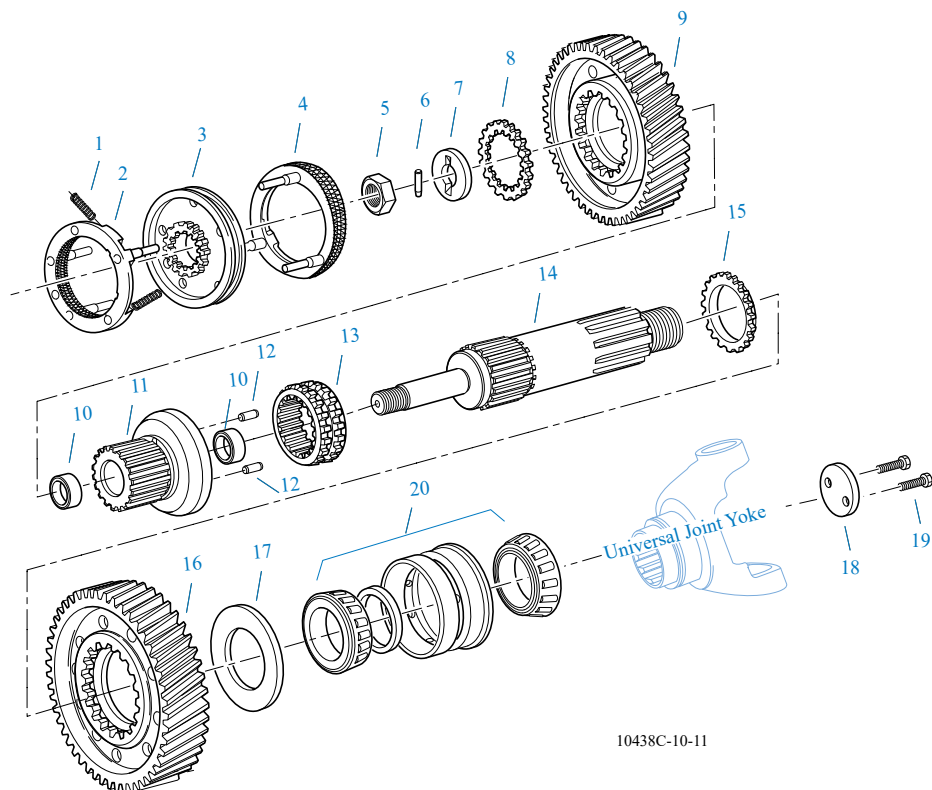
Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
	K-1698	-O- RING/ELEMENT KIT		1		
	K-2170	FILTER REG KIT		1		
	K-2427	PISTON KIT		1		
	K-2805	SHIM KIT		1		K-3942
	K-2908	-O- RING KIT		1		
	K-2918	OIL SEAL KIT		1		K-3942
	K-3367	OIL PUMP KIT		1		
	K-3438	POSITION SENSOR KIT		1		
	K-3441	OIL FILTER/ADAPTER KIT		1		
	K-3492	SYNCHRONIZER KIT		1		
	K-3494	SYNCHRONIZER REPLACEMENT KIT		1	SLIDING CLUTCH INCLUDED IN KIT	
	K-3523	SPEEDO PLUG KIT		1		
	K-3682	RANGE/SPLITTER VALVE KIT		1		
	K-3734	TRANS CONTROLLER MOUNTING KIT		1		
	K-3902	HEAT EXCHANGER MOUNTING BRACKET KIT		1		
	K-3940	GASKET KIT		1		K-3942
	K-3942	BASIC REBUILD KIT		1		
	K-3947	DIRECTIONAL SPEED SENSOR KIT		1	USED IN OUTPUT SHAFT LOCATION	
	K-3983	TRANSMISSION HARNESS KIT	4307038	1	FOR USE WITH GEN 1 ECA (4306651)	
	K-4009	XY SHIFTER REPAIR KIT		1		
	K-4012	PTO BRACKET KIT	4306528	1		
	K-4013	COMBINATION CYLINDER COVER KIT		1		

K-4014	COMBINATION CYLINDER O-RING KIT		1	
K-4035	OUTPUT YOKE / FLANGE RETAINER KIT	Pro Gear & Transmission - 877-776-4600 - FO-12E309ALL-VMS parts list 4306303	1	K-4140
K-4036	CROSS-SHAFT ASSEMBLY KIT		1	K-4145CL
K-4037	ECA CLUTCH GREASE LINE KIT		1	
K-4058	ECA SPEED SENSOR JUMPER HARNESS KIT		1	
K-4088	HAND HOLE COVER KIT		1	
K-4103	GEN 1 ECA SHIELD KIT	A-8155	1	TO BE USED WITH 4306651 GEN 1 ECA ONLY
K-4134CL	KIT, BRAKE ASSEMBLY, LCIB	1271043,K-4134	1	
K-4140	SMALL PARTS KIT		1	
K-4142	SEAL KIT		1	K-4143,K-4145CL
K-4143	INPUT SHAFT KIT		1	K-4144
K-4144	INPUT SHAFT REPLACEMENT KIT	S-3078	1	
K-4145CL	CLUTCH INSTALLATION KIT	K-4059,K-4145	1	
K-4149	SPEED SENSOR KIT	K-3938	1	FOR USE AT INPUT SHAFT, MAINSHAFT AND CLUTCH LOCATIONS
K-4223X	KIT, GEN 3 XY SHIFTER, NEW EXCH (HEAVY)	K-3784RX, A-8226, A-8900,K-4223RX	1	
K-4252RX	GEN 2 ECA KIT (HARNESSES & SHIELD)	K-3936RX, 4306651,K-4252	1	ORDER THIS KIT TO REPLACE GEN 1 PLASTIC HOUSING ECA, THE KIT INCLUDES ADAPTER HARNESSES & SHIELD, REFERENCE TAIB0862
K-4253RX	GEN 2 ECA KIT (NO HARNESS / NO SHIELD)	125872,K-4253	1	LATEST DESIGN ECA, CAST HOUSING, THIS KIT DOES NOT INCLUDE ANY HARNESSES OR SHIELD
K-4257	TRANSMISSION HARNESS KIT	4308612	1	FOR USE WITH GEN 2 ECA (125872)
K-4287	XY SHIFTER POSITION SENSOR GASKET KIT		1	FOR USE WITH 691926 SENSOR
K-4313	ECU ASSEMBLY KIT (VMS)	K-3931	1	
S-2501	SPEEDO ROTOR ASSY		1	
S-3022	SHIFT BAR HOUSING ASSY		1	HOUSING ONLY
S-3106	REAR BEARING COVER ASSY		1	
S-3110	MAINSHAFT ASSY	4306315	1	
S-3111	SHIFT BAR HOUSING ASSY		1	COMPLETE
S-3125	CASE ASSY	4306101, 4308768	1	

MAINSHAFT & SYNCHRO(AUX)

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS

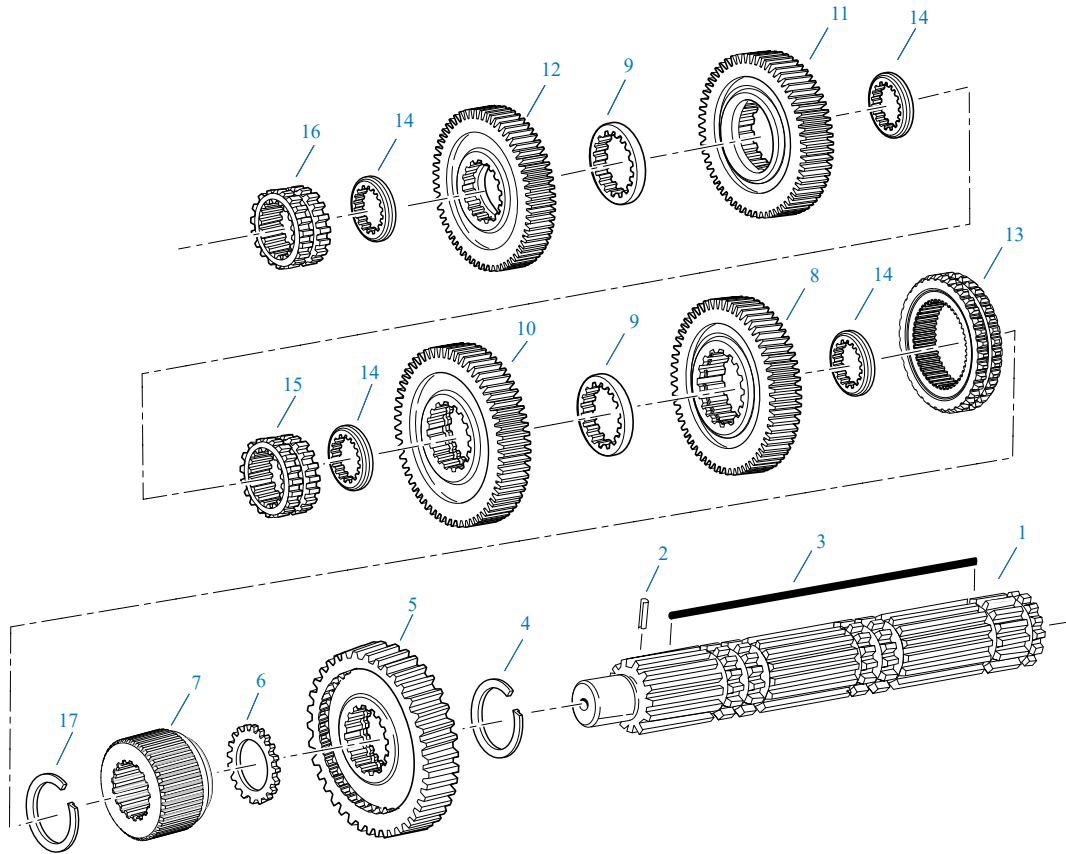


Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	14897	SPRING		3		K-3492,K-3494,K-3942,K-4140
2	A-7331	SYNCHRONIZER ASSY	4304396 4304397 A - 5917	1	HI RANGE	K-3492,K-3494
3	20323	SLIDING CLUTCH		1		K-3494
4	A-7254	SYNCHRONIZER ASSEMBLY	A - 4937 A - 5876	1	LO RANGE	K-3492,K-3494
5	21365	NUT		1		
6	17332	DOWEL PIN		1		
7	21347	WASHER		1		
8	21350	WASHER		1		
9	4302468	REDUCTION GEAR	4302446	1		
10	21352	BUSHING		2		A-5156,K-3942
11	A-5156	MAINSHAFT ASSY	21351	1		
12	21652	PIN		2		
13	4306142	SLIDING CLUTCH		1		
14	4306304	MAINSHAFT		1		
15	21354	WASHER		1		
16	4300677	DEEP REDUCTION GEAR		1		
17	21358	WASHER		1		
18	K-4035	OUTPUT YOKE / FLANGE RETAINER KIT		1		K-4140
19	X-8-1209M	HEX FLANGE HEAD SCREW		2	M12X1.25X60	K-4035
20	5556507	TAPERED ROLLER BEARING		1		K-3942

MAINSHAFT ASSY

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



11322-11-10

Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	S-3110	MAINSHAFT ASSY	4306315	1		
2	62504	ROLL PIN		1		S-3110
3	4306293	KEY, MAINSHAFT (SPECIAL)		1		
4	4306308	SNAP RING		1		K-3942,K-4140
5	4306282	REVERSE GEAR-MAINSHAFT		1		
6	4306292	SPACER		1		K-4140
7	4306541	MAINSHAFT SLEEVE		1		
8	4306299	LO GEAR-MAINSHAFT		1		
9	4303603	WASHER		2		K-4140
10	4305909	1ST GEAR-MAINSHAFT	4303408,4303420	1		
11	4302394	2ND GEAR-MAINSHAFT		1		
12	4305667	OD GEAR-MAINSHAFT	4305070,4302393	1		
13	4306540	SLIDING CLUTCH		1	1ST / REVERSE	
14	4302398	WASHER		4		K-4140
15	4305997	SLIDING CLUTCH		1	2ND / 3RD	
16	4305996	SLIDING CLUTCH		1	OD / DIRECT	
17	16763	SNAP RING		1		K-3942,K-4140

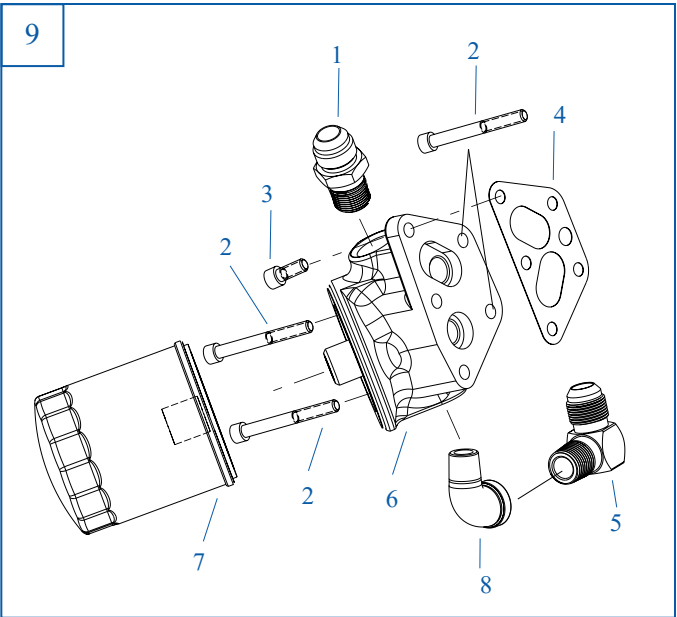
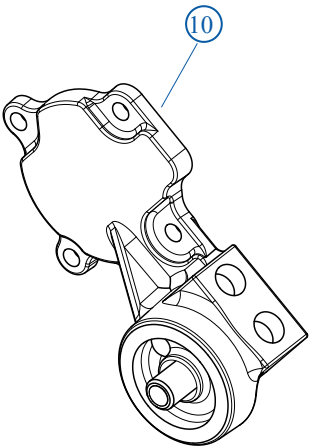
OIL FILTER

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS

11 Oil Filter Cover Kit
(not pictured)

○ - Contained in Item #11



10539-3-00

Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	19419	CONNECTOR		1		K-3441,K-3547
2	X-8-453	SCREW		4		K-3441
3	X-8-452	SCREW		1		K-3441
4	4304820	GASKET		1		K-3441,K-3940
5	4301123	ELBOW		1		K-3441
5	4308264	ELBOW, 90 DEG RED		1	(1/2 PIPE, 7/8 STR)	K-3441
6	K-3441	OIL FILTER/ADAPTER KIT	A - 7174	1		
7	4304827	OIL FILTER ELEMENT		1		K-3441,K-3547
8	17007	ELBOW		1		K-3441
9	K-3441	OIL FILTER/ADAPTER KIT		1		
10	A-7300	AUX COUNTERSHAFT COVER ASSY		1		K-3547
11	K-3547	OIL FILTER COVER KIT		1	CONTAINS A-7300	

REVERSE IDLER

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS

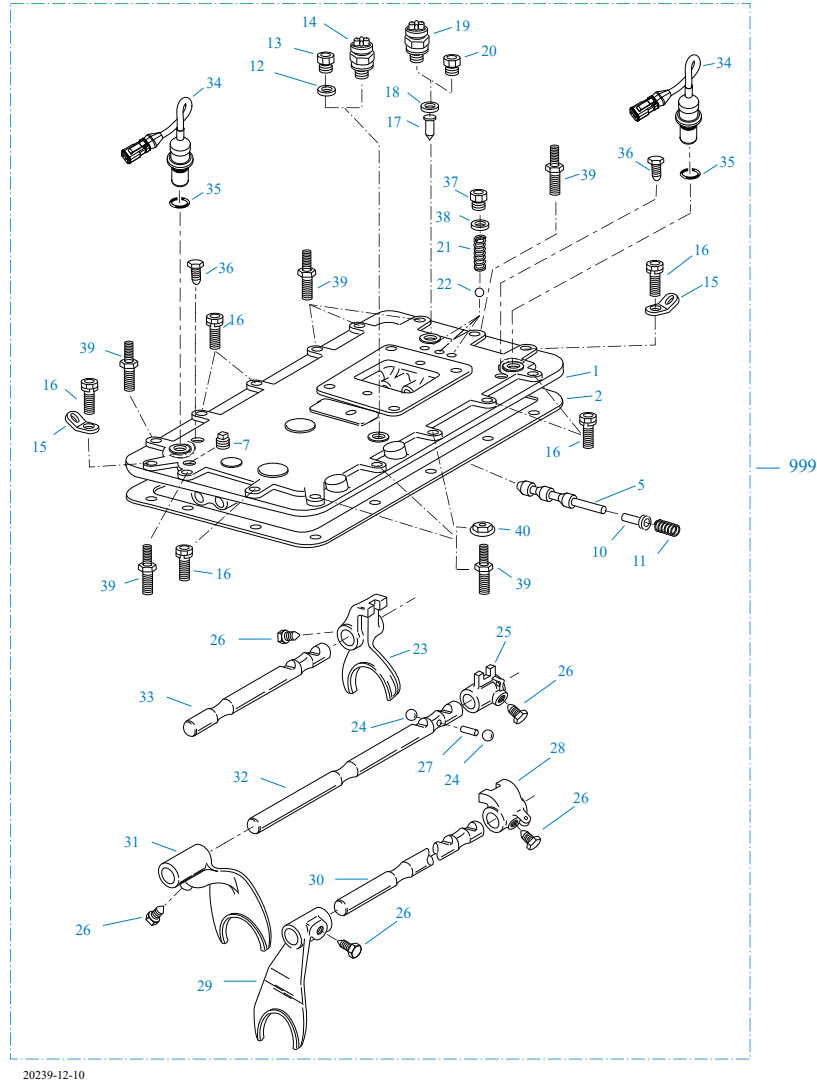


Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
3	4302982	WASHER	14282	4		
4	4308403	REVERSE GEAR IDLER SHAFT BEARING	4305020,14287	2		K-3942
5	16757	REVERSE IDLER GEAR	22409	2		
8	4303336	RETAINING RING		4		
9	4305513	IDLER SHAFT		2		

SHIFT BAR HOUSING

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



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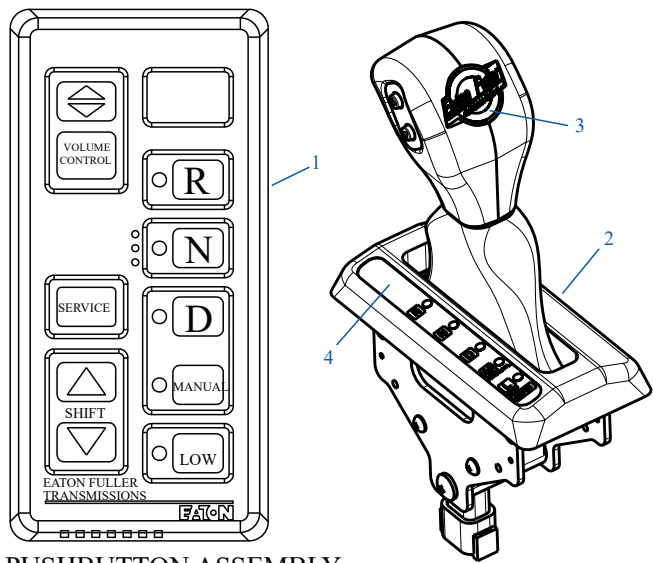
Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	S-3022	SHIFT BAR HOUSING ASSY	4305895	1	HOUSING ONLY	
2	4302676	GASKET	14918	1		K-3940,S-3022,S-3111
5	20332	AIR VALVE SHAFT	17177	1		S-3111
7	X-12-603	PIPE PLUG	X12 602	1	3/8" NPT	S-3111
10	21966	PLUNGER		1		
11	4301372	SPRING		1		
12	17179	GASKET		1		K-3940,S-3022,S-3111
13	4303655	PLUG	17178	1		S-3022,S-3111
14	22941	NEUTRAL LIGHT SWITCH	12639	1	SWITCH NORMALLY CLOSED	
15	20815	LIFTING EYE	17105	2		
16	X-8L-602	CAPSCREW		5	3/8"-16X1-1/2"- TWO FOR LIFTING EYES, 2 FOR HARNESS BRACKET AND 1 FOR STRAIN RELIEF VALVE	

16	X-8L-604	CAPSCREW		2	3/8"-16X1-1/4"	K-3547
17	15899	PIN	Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list			
18	15900	GASKET		1		K-3940,S-3022,S-3111
19	22940	REVERSE LIGHT SWITCH	16830	1	SWITCH NORMALLY OPEN	
19	5505084	REVERSE LIGHT SWITCH		1	2 PIN PLUG	
20	4303656	PLUG	15917	1		S-3022,S-3111
21	691661	COMPRESSION SPRING		3		K-4140,S-3111
22	X-14-800	STEEL BALL		3	1/2"	K-4140,S-3111
23	4306286	SHIFT YOKE		1	REVERSE/1ST	S-3111
24	X-14-1200	STEEL BALL		2	3/4"	S-3111
25	14658	SHIFT BLOCK		1	2ND/3RD	S-3111
26	3220	LOCKSCREW		5		S-3111
27	1634	INTERLOCK PIN		1		K-4140,S-3111
28	14659	SHIFT BLOCK		1	4TH/5TH	S-3111
29	691601	SHIFT YOKE	4302212	1	4TH/5TH	S-3111
30	4301366	YOKE BAR		1	4TH/5TH	S-3111
31	691600	SHIFT YOKE	4302994	1	2ND/3RD	S-3111
32	4301365	YOKE BAR		1	2ND/3RD	S-3111
33	4301364	YOKE BAR		1	REVERSE/1ST	S-3111
34	K-4149	SPEED SENSOR KIT	K-3938	2	SINGLE PICK-UP (2 PIN)	
35	14142	O-RING		2		S-3111
36	X-8C-409	CAPSCREW		2	1/4"-20X5/8"	K-3947,K-4149
37	4303656	PLUG	15917	3		S-3022,S-3111
38	15900	GASKET		3		K-3940,S-3022,S-3111
39	4305869	SCREW		9	3/8 & 5/16	
40	4305870	NUT ASSEMBLY		3	5/16-18	K-3734,K-4313
999	S-3111	SHIFT BAR HOUSING ASSY		1	COMPLETE	

SHIFT CONTROLS

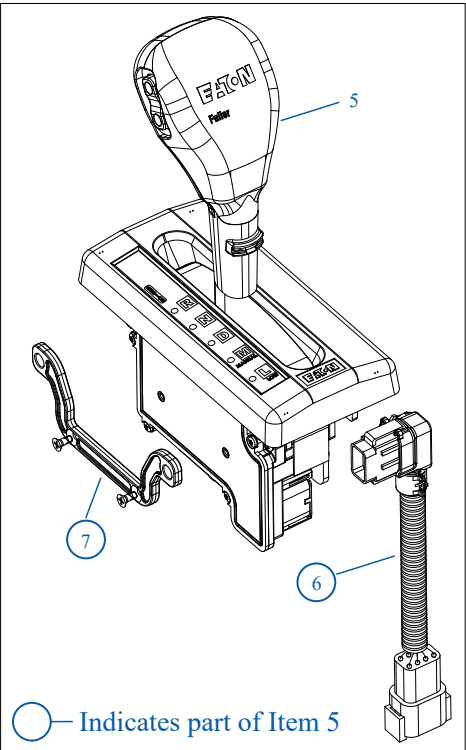
Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



PUSHBUTTON ASSEMBLY

COBRA LEVER - only for use with 10MY559M Mack Swing Arm Bracket



COBRA LEVER - Latest Design - for all applications with the exception of units using the 10MY559M Mack Swing Arm Bracket (see illustration to the left)

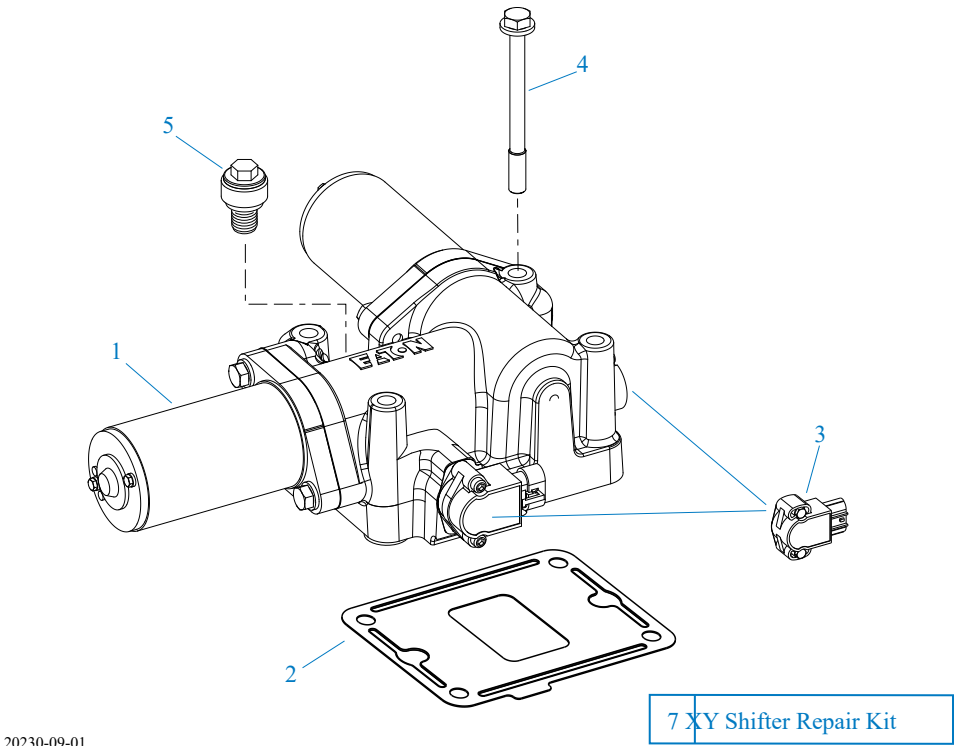
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Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	4306043	PUSHBUTTON ASSY	A - 7466,S-3007	1		
1	4308858	PUSHBUTTON SHIFT SELECTOR		1	CONTAINS SECONDARY CONFIGURATION MODE BUTTON	
2	K-3997	NO LONGER AVAILABLE - COBRA SHIFT LEVER KIT	4305447,K-3680	1	MACK SWING ARM (LEFT HAND DRIVE), ALSO KNOWN AS (RHO) RIGHT HAND OPERATION - FOR UNITS USING THE MACK 10MY559M SWING ARM BRACKET	
3	5505111	NO LONGER AVAILABLE		1		
4	5505110	NO LONGER AVAILABLE		1		
5	K-3980	COBRA SHIFT LEVER KIT (RHO)	K-3680	1	(LEFT HAND DRIVE), ALSO KNOWN AS (RHO) RIGHT HAND OPERATION	
6	A-7982	JUMPER HARNESS ASSY		1		
7	K-3979	SPACER KIT		1	INCLUDES (4) SPACER MOUNTING SCREWS	

X-Y SHIFTER MODULE

Pro Gear & Transmission · 877-776-4600 · FO-12E309ALL-VMS parts list

FO-12E309ALL-VMS



Item	Current Part	Description	Replaced Part	Qty	Notes	Kits/Assys Where Used
1	K-4223R	KIT, GEN 3 XY SHIFTER, REMAN EXCH (HEAVY)		1		
1	K-4223X	KIT, GEN 3 XY SHIFTER, NEW EXCH (HEAVY)	A-7670, K-3665, K-3784, K-3784RX, A-8226, A-8900,K-4223RX	1		
2	4305452	GASKET	4301958	1		K-3940,K-4009,K-4223R,K-4223X,K-4287
3	K-3438	POSITION SENSOR KIT	691551 ,691926, 4308829	2		
4	X-8C-615	CAPSCREW		4		
5	4304602	BREATHER	23605	1	1/4" NPT	
7	K-4009	XY SHIFTER REPAIR KIT		1		
8	K-4287	XY SHIFTER POSITION SENSOR GASKET KIT		1	FOR USE WITH 691926 SENSOR	