Eaton Fuller RTLO-16618A Transmission Parts Manual

This is Eaton Fuller RTLO-16618A Transmission parts manual brought to you by Pro Gear and Transmission to assist you identifying the parts for your Eaton / Fuller transmission unit.

If you need any assistance identifying the correct Eaton / Fuller unit for your truck and equipment, contact your Eaton replacement partspecialists at Pro Gear and Transmission.

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Illustrated Parts List

RTLO-16618A
July 2011

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Contents

How To Use The Illustrated Parts List **3**
AUXILIARY DRIVE GEAR **4**
CASE (AUX) **5**
CASE (FRONT) **7**
COUNTERSHAFT & BRGS(AUX) **9**
COUNTERSHAFT ASSY **10**
FILTER REGULATOR **11**
H & C W/19470 VALVE **12**
H & C W/A-5000 VALVE **13**
INPUT SHAFT & DRIVE GEAR **14**
INTEGRAL OIL PUMP **15**
ISOLATORS **17**
KITS & ASSEMBLIES **18**
LEVERS/HOUSINGS **19**
MAINSHAFT & SYNCHRO(AUX) **21**
MAINSHAFT ASSY **22**
MISCELLANEOUS **24**
OIL COOLER **25**
RANGE CYLINDER **26**
REVERSE IDLER **27**
ROADRANGER VALVES **30**
SHIFT BAR HOUSING (STD) **31**
SLAVE VALVE - 19470 ..... **33**
SLAVE VALVE - A-5000 ..... **34**
SPLITTER CYLINDER **35**

How To Use The Illustrated Parts List

The information contained in this document is subject to frequent updates. Therefore, for the latest information available, please visit the interactive Electronic Parts Catalog at www.roadranger.com/epc.

Model Designation or Nomenclature

- For information regarding Model Designation and Nomenclature, visit www.roadranger.com.

Kits and Assemblies (K/A's)

- Kits and Assemblies contain groups of individual or assembled parts developed for optimal replacement or repair of a service problem.
- Kits and Assemblies are shown with applicable parts groupings in the parts listings.

Identifying Kits and Assemblies

A- Part numbers beginning with the letter 'A' are pre-assembled Production Assemblies
K- Part numbers beginning with the letter 'K' are kits that are not assembled
S- Part numbers beginning with the letter 'S' are pre-assembled Service Assemblies

- Note: Some Production Assemblies do not begin with a letter prefix (Midrange only).

Illustrations

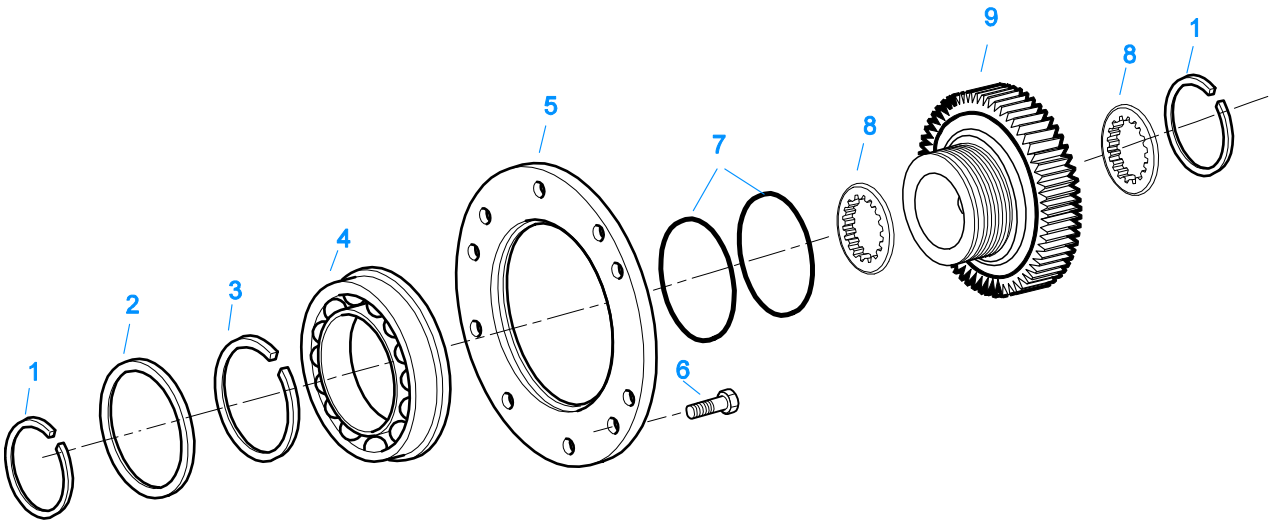
- Illustrations show parts in assembly groups.
- Item numbers on illustrations correspond with parts listings on pages adjacent to the illustration.
- Notes are included on illustrations where additional information is needed.

Parts Listing

Parts listings are defined by parts groupings and are broken down by service assemblies. Parts listings identify a part for servicing with the following categories

- **Item Number** - corresponding with numbers on illlustrations for part identification.
- **Current Part** - indentifies part as it is available for service.
- **Description** - specifies part name or description.
- **Replaced Part** - quantity quantity required for assembly.
- **Quantity** - defines unique characteristics or requirements.
- **Notes** - indicates Kits or Assemblies that contain a particular part.
- **Kits/Assy's Where Used**

Group: AUXILIARY DRIVE GEAR



10481-12/92 Aux DG

AUXILIARY DRIVE GEAR

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	16763	SNAP RING		2		K-2433,K-2993,K-2996
2	21320	SNAP RING RETAINER		1		K-3189
3	16628	SNAP RING		1		K-2433
4	5566507-BOX	BEARING	5566504,5566507	1		K-2993,K-2996
5	16138	BEARING RETAINER		1		
6	X-8-645	CAPSCREW	X 8 612	1	3/8"-16X1"	
7	17453	-O- RING		2		K-2993,K-2996,K-3189
8	21599	WASHER		2		
9	K-3189	REPLT KIT-DRIVE GEAR	4300467 ,4303558 ,K - 2312	1		

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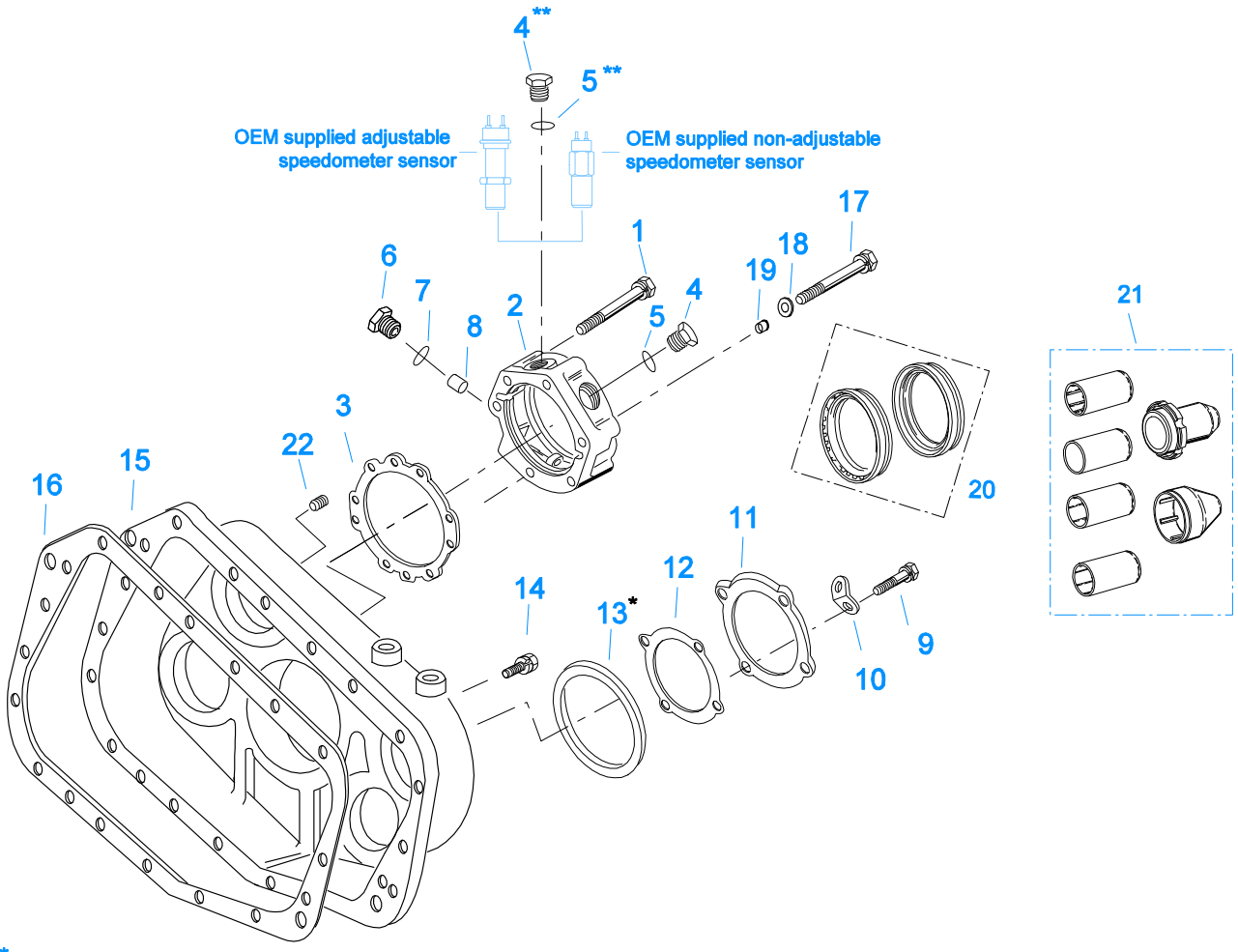


** Note — Items 4 & 5 / Magnetic Speedometer Openings:
Use 13679 "O" ring w/ OEM supplied adjustable speedometer sensor
and 20225 "O" ring w/ OEM supplied non-adjustable speedometer sensor or Eaton part #20224 Plug

* See Service Manual for Proper Shimming Procedure

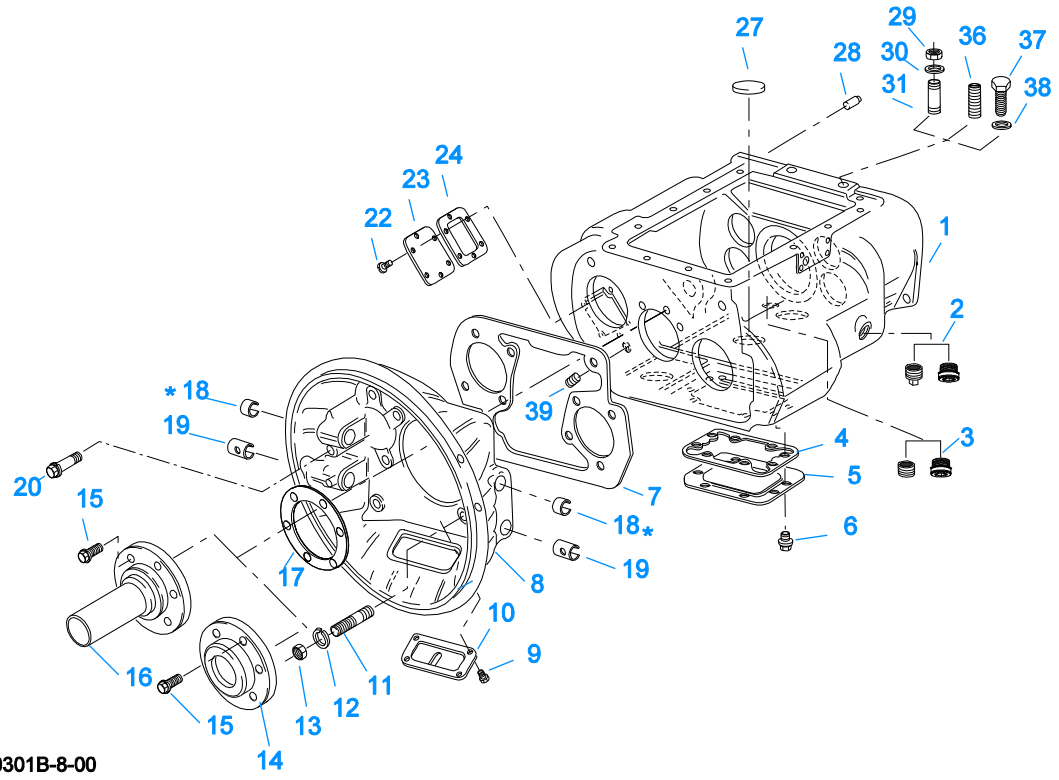
10401-4/92 Aux Case 18/13 spd

CASE (AUX)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	X-8L-611	CAPSCREW		5	3/8"-16X3-1/4"	
2	S-2119	REAR BRG COVER ASSY	20048 ,22045 ,4302009 ,4302031 ,S - 1558 S - 1560	1	EXTENDED	
3	15532	GASKET		1		K-2199,K-2262,S-2119
4	20224	PLUG-MAGNETIC		2		S-1893,S-2119
5	13679	-O- RING		1	USE W/ OEM SUPPLIED ADJUSTABLE SPEEDOMETER SENSOR	
5	20225	-O- RING		2	USE W/20224 PLUG OR OEM SUPPLIED NON-ADJUSTABLE SPEEDOMETER SENSOR	
6	20226	PLUG-MECHANICAL	2237	1		S-1893,S-2119
7	14142	-O- RING		1		S-1893,S-2119
8	7992	BUSHING		1		S-2119
9	X-8L-604	CAPSCREW		8	3/8"-16X1-1/4"	
10	20815	LIFTING EYE	17105	2		S-1893
11	4300925	REAR BEARING COVER	4300185	2		S-1893
12	4300186	GASKET		2		K-2199,S-1893
13	K-2430	SHIM KIT	21452	1		K-2338,K-2993,K-2996,S-1893
14	X-8L-602	CAPSCREW		9	3/8"-16X1-1/2"	

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
14	X-8L-604	CAPSCREW		8	3/8"-16X1-1/4"	
14	X-8L-614	CAPSCREW		2	3/8"-16X2"	
15	S-2986	REAR HOUSING CASE ASSY	4300181 ,4300863	1		
16	14335	GASKET		1		K-2199,S-1893
17	X-8-611	CAPSCREW		1	3/8"-16X3-1/4"	
18	17106	GASKET		1		K-2199,K-2262,S-2119
19	19709	COLLAR		1		K-2199,K-2262,S-2119
20	K-2262	OIL SEAL W/SLINGER	19109 20807 20808	1	"FOR MECHANICAL COVER"	K-2338,K-2993,K-2996
21	K-3651	OIL SEAL TOOL KIT		1		
22	X-12-404	PIPE PLUG		1	1/4" NPT	

Group: CASE (FRONT)



10301B-8-00

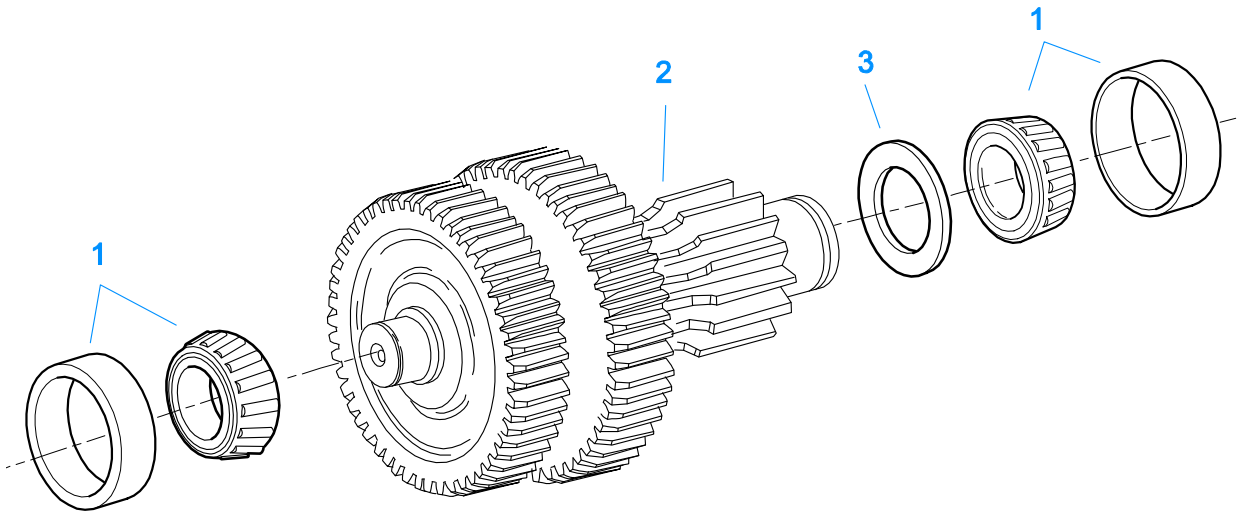
* Bushing quantity requirements: #1 Housing – Upper bore use 4 #12815 / Lower bore use 2 #8677.
#2 Housing – Upper bore use 2 #12815 and 1 #8677 / Lower bore use 2 #8677.

Note: Some part requirements are specific to #1 or #2 Clutch Housings and Push or Pull type Clutch.

CASE (FRONT)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	S-1820	CASE ASSY	4300445	1	FOR USE W/INTEGRAL PUMP	
2	4304023	PLUG	4303747	1	1-1/16" MAGNETIC, O-RING INCLUDED	
2	X-12-2007	PIPE PLUG	X12 2006	1		
3	4304023	PLUG	4303747	1	1-1/16" MAGNETIC, O-RING INCLUDED	
3	X-12-1207	PIPE PLUG	X12 1202 ,X12 1206	1	3/4" MAGNETIC	
4	4305310	GASKET	4302810	1		K-2199
5	4302809	PTO COVER	16596 ,4300571	1		
6	X-8-725	CAPSCREW	X 8 724	8	7/16"-14X7/8"	
7	4306584	CLUTCH HOUSING GASKET	4304815,4305668	1		K-2199
8	A-3713	CLUTCH HOUSING ASSY	A - 3700	1	#1 PUSH-PULL IRON	
8	A-3723	CLUTCH HOUSING ASSY	A - 3721 ,A - 3722	1	#2 PUSH-PULL IRON	
9	239614	SCREW	X-8L-509	4	5/16-18X.81 QUANTITY DEPENDENT ON DESIGN	
10	14506	HAND HOLE COVER		1	#2 PUSH	
10	14507	HAND HOLE COVER		1	#2 PULL	
10	4305230	HAND HOLE COVER	11453	1	#1 PULL	
10	4305231	HAND HOLE COVER	1565	1	#1 PUSH	
11	4306583	STUD	5966	6		
12	X-10-1005	WASHER	X 3 1000 ,X10 1000 ,X10 1004	6	1.23 X 6.60	
13	X-1-1012	HEX NUT		6	.625-18	
14	20550	FRONT BRG COVER		1	2" PULL	K-2468,K-4125
15	X-8L-604	CAPSCREW		6	3/8"-16X1-1/4"	
16	20549	FRONT BRG COVER		1	2" PUSH	
17	14311	GASKET		1		K-2199
18	12815	BUSHING		4	USE 4 PCS FOR #1 HSG - UPPER USE 2 PCS FOR #2 HSG - UPPER	A-3713,A-3723,K-2468
19	8677	BUSHING		3	USE 2 PCS FOR #1 HSG-LOWER USE 3 PCS FOR #2 HSG-1 UPPER(#18),2	A-3713,A-3723

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
					LOWER	
20	X-8C-830	HEX HEAD SCREW/WASHER ASSY	X-8C-826	2	.500-13 X 1.490, FOR IRON HOUSING	
20	X-8C-831	HEX HEAD SCREW/WASHER ASSY	X-8C-822	2	.500-13 X 3.460, FOR IRON HOUSING	
22	X-8-686	CAPSCREW		6	3/8"-16X3/4"	
23	14575	PTO COVER	4302254	1		
24	4305309	GASKET	1684	1		K-2199
27	14373	MAGNET		3		S-1820
28	18128	PIN		2		
29	X-1-1012	HEX NUT		2	.625-18	
30	X-10-1005	WASHER	X 3 1000 ,X10 1000 ,X10 1004	2	1.23 X 6.60	
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"	

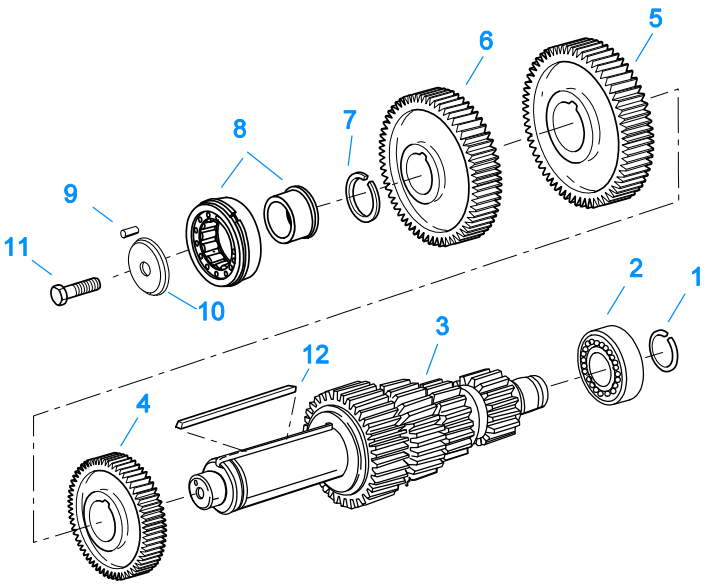


10441-4/92 Aux CS 13/18 spd

COUNTERSHAFT & BRGS(AUX)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	4302074-BOX	BEARING	21343,4302074	4		K-2338,K-2993,K-2996
2	A-6840	WELDED COUNTERSHAFT ASSY	A - 5747 ,A - 5899	2	C/S 4303902 - D/G 4300783 S/G 4300396	
3	4300184	SPACER		2		

Group: COUNTERSHAFT ASSY



10342-4/92 CS/RTLO

COUNTERSHAFT ASSY

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	14317	SNAP RING		2		K-2433,K-2993,K-2996
2	4303031	BEARING	14366	2		K-2993,K-2996
3	A-6689	CNTRSHFT W/1ST & 2ND	A - 5746 ,A - 5873 ,K - 2939 ,K - 2968	2		
4	21588	3RD GEAR-CNTRSHFT		2		
5	15953	PTO GEAR - LOWER		1		
5	16390	NO LONGER AVAILABLE		2	OPTIONAL IF PTO GEARS ARE NOT USED	
5	20840	PTO GEAR - UPPER	15952	1		
6	21586	DRIVE GEAR-CNTRSHFT	22271	2		
7	19198	SNAP RING		2		
8	4304599	BEARING	4302677 4304598	2		K-2993,K-2996
9	62511	ROLL PIN		2		A-6689,K-2433
10	4304605	RETAINER	19548	2	ROLL PIN NO LONGER REQUIRED	
11	X-7-1005	CAPSCREW		2	5/8"-18X1-3/4"	
12	4304840	KEY	19673	1	KEY INCLUDED IN COUNTERSHAFT ASSY	A-6689

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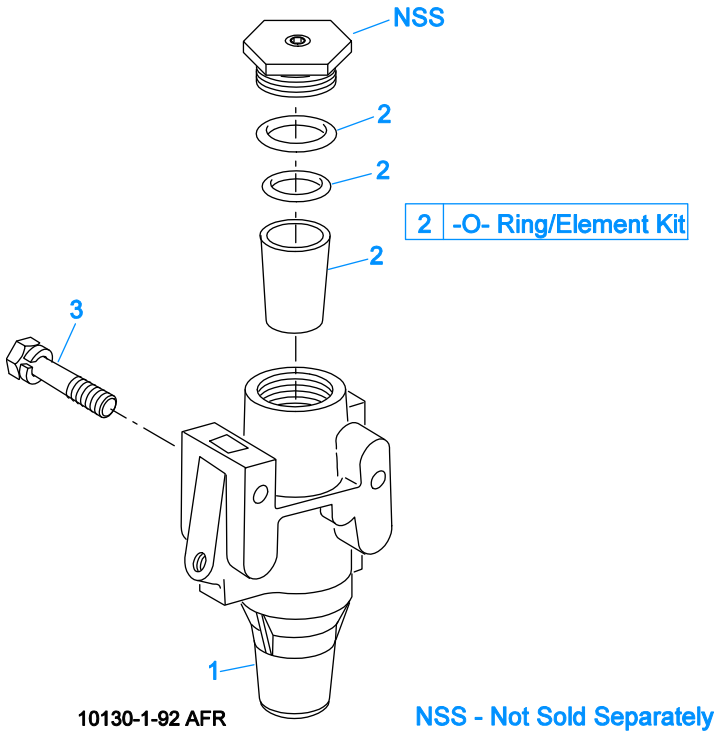
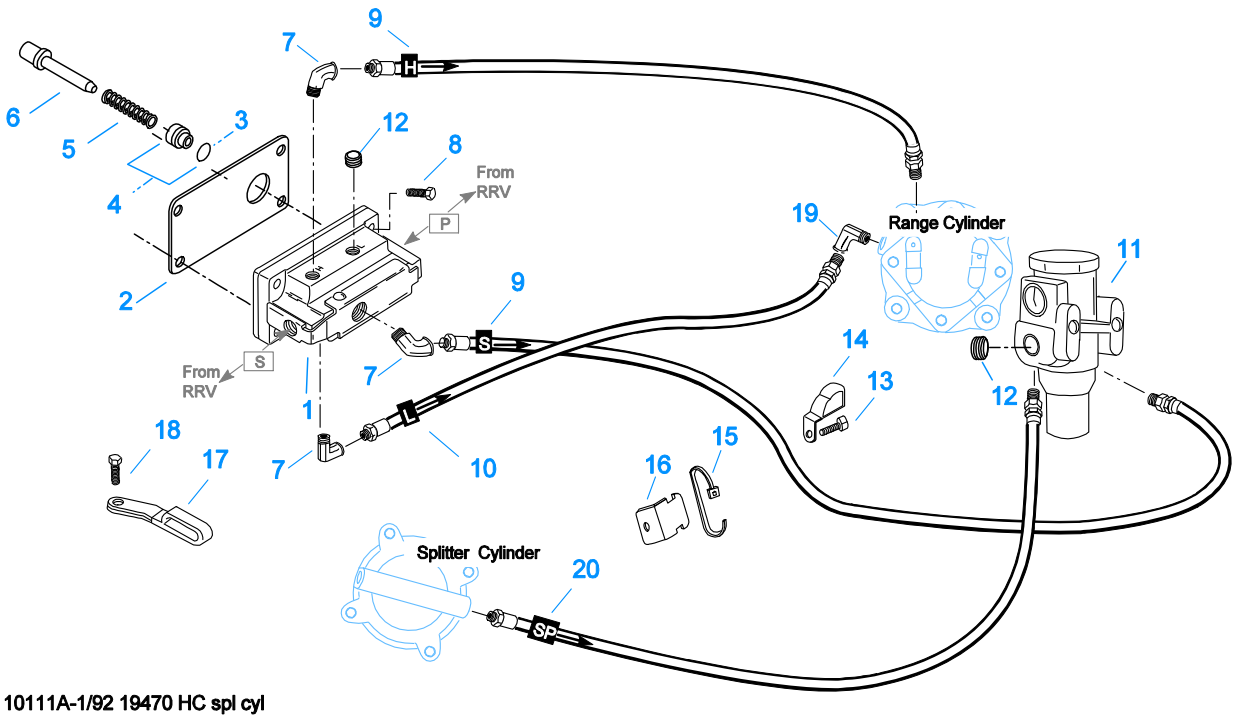
Group: FILTER REGULATOR



FILTER REGULATOR

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	A-4740	FILTER/REGULATOR	19600	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"	

Group: H & C W/19470 VALVE



10111A-1/92 19470 HC spl cyl

H & C W/19470 VALVE

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	K-2424	VALVE REPLACEMENT KIT	19470	1		
2	19481	GASKET		1		K-2199,K-2424
3	19462	-O- RING	14033	1		K-1969
4	K-1969	SLEEVE KIT	14362 ,19460 ,21446	1	FOR SLAVE VALVES	
5	21268	SPRING	19572	1		
6	20490	PIN	19459	1		
7	12845	ELBOW		3	1/8"	
8	X-8C-401	CAPSCREW		4	1/4"-20X1-1/8"	
9	55509	HOSE ASSY		2	34"	
10	55518	HOSE ASSY		1	32"	
11	A-4740	FILTER/REGULATOR	19600	1		
12	X-12-208	PIPE PLUG		2	1/8" NPT	
13	X-8L-601	CAPSCREW		1	3/8"-16X3/4"	
14	21427	HOSE CLAMP		1		
15	21425	STRAP		1		
16	21426	BRACKET		1		
17	21428	HOSE CLAMP		1		
18	X-8L-604	CAPSCREW		1	3/8"-16X1-1/4"	
19	12880	ELBOW		1	1/8"	
20	55527	HOSE ASSY		1	15"	

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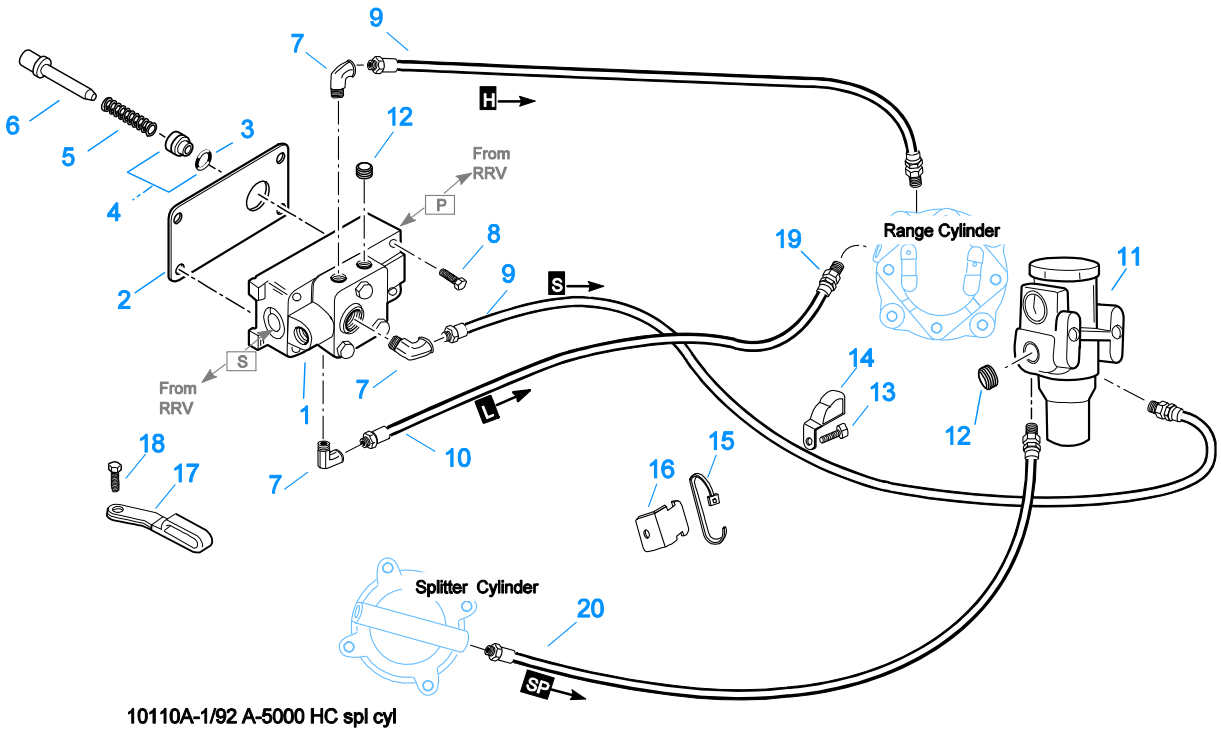
Group: H & C W/A-5000 VALVE

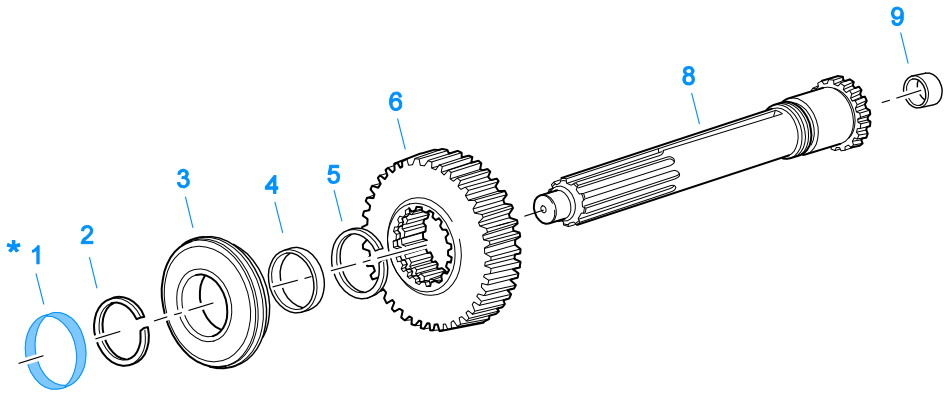


10110A-1/92 A-5000 HC spl cyl

H & C W/A-5000 VALVE

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	A-5000	SLAVE VALVE ASSY	20850	1		K-2424
2	19481	GASKET		1		K-2199,K-2424
3	19462	-O- RING	14033	1		K-1969
4	K-1969	SLEEVE KIT	14362 ,19460 ,21446	1	FOR SLAVE VALVES	
5	21268	SPRING	19572	1		
6	20490	PIN	19459	1		
7	12845	ELBOW		3	1/8"	
8	X-8C-411	CAPSCREW		4	1/4"-20X1-3/4"	
9	55509	HOSE ASSY		2	34"	
10	55518	HOSE ASSY		1	32"	
11	A-4740	FILTER/REGULATOR	19600	1		
12	X-12-208	PIPE PLUG		2	1/8" NPT	
13	X-8L-604	CAPSCREW		1	3/8"-16X1-1/4"	
14	21427	HOSE CLAMP		1		
15	21425	STRAP		1		
16	21426	BRACKET		1		
17	21428	HOSE CLAMP		1		
18	X-8L-604	CAPSCREW		1	3/8"-16X1-1/4"	
19	12880	ELBOW		1	1/8"	
20	55527	HOSE ASSY		1	15"	

Group: INPUT SHAFT & DRIVE GEAR



* For Shipping Only -- Do Not Replace

*

10370-1/92 IS

INPUT SHAFT & DRIVE GEAR

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	23559	SHIPPING SEAL		1	NOT SOLD FOR SERVICE	
2	16980	SNAP RING		1		K-2468,K-2993,K-2996,K-4125
3	81504	BEARING		1		K-2468,K-2993,K-2996,K-4125
4	16463	SPACER		1		
5	14750	SNAP RING		1		K-2433,K-2468,K-2993,K-2996,K-4125
6	20458	MAIN DRIVE GEAR	19630	1		
8	S-1659	INPUT SHAFT	20535 23566 ,4302661	1	2" PULL - USE W/FBC 20550	K-2468,K-2993,K-4125
8	S-1660	INPUT SHAFT	20536 ,23567	1	2" PUSH - USE W/FBC 20549	
9	16566	BUSHING		1		K-2996,S-1659,S-1660

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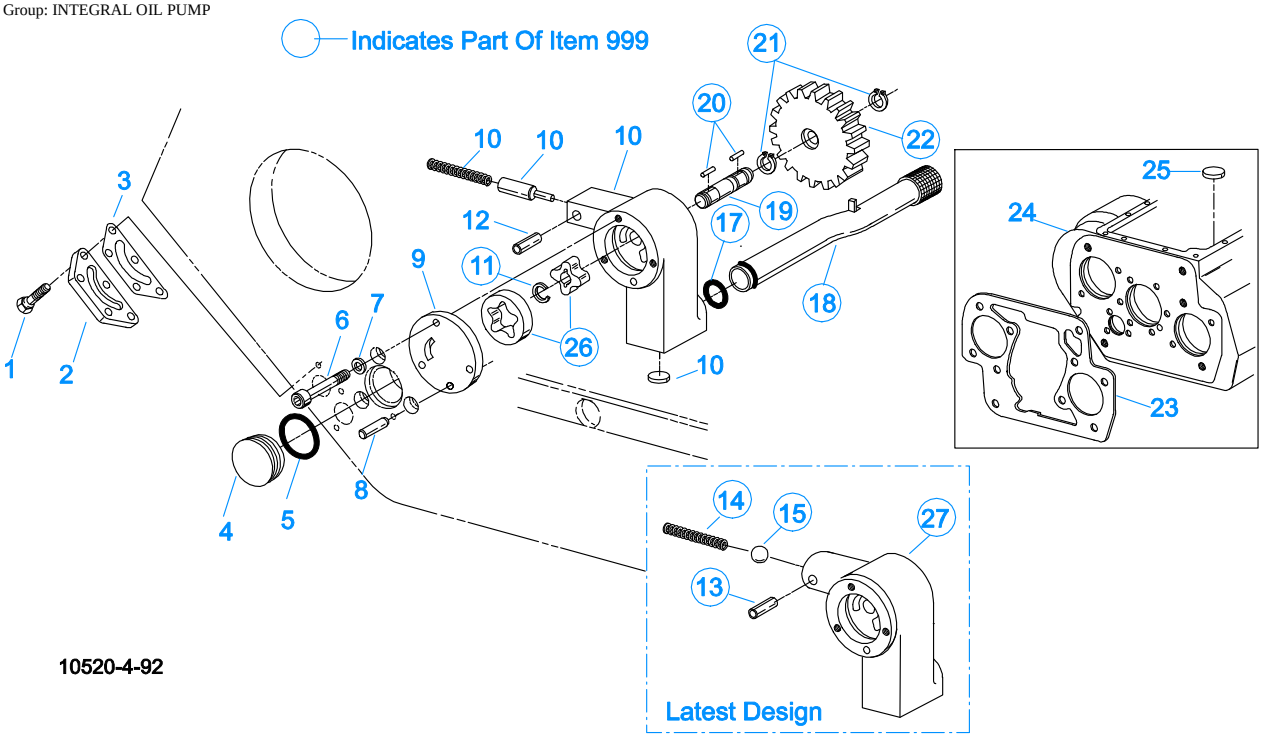
Group: INTEGRAL OIL PUMP



INTEGRAL OIL PUMP

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	X-8C-409	CAPSCREW		5	1/4"-20X5/8" - USE WITH 4300751 COVER	
1	X-8C-430	CAPSCREW		5	1/4"-20X7/8" - USE WITH 20513 COVER	
2	K-2402	COVER & SCREW KIT	20513 ,4300751	1		
3	20514	GASKET		1		K-2402
4	20823	PLUG		1		
5	14765	-O- RING		1		K-1431,K-1450,K-2002
6	X-8-448	SCREW	X 8 445	3	1/4"-20X1-1/4"	
7	20824	WASHER		3		K-3367
8	20825	DOWEL PIN		1		
9	4303107	RETAINER	20510	1		S-1820
10	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		
11	20518	CRESCENT RING		1		
12	62516	ROLL PIN	62521	1		
13	62514	ROLL PIN		1		
14	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		
15	X-14-700	STEEL BALL		1	7/16"	
17	20225	-O- RING		1		
18	4305713	SUCTION TUBE	4304628	1	O-RING INCLUDED ON SUCTION TUBE	K-3367
19	20508	DRIVE SHAFT		1		
20	20509	KEY		2		
21	14853	SNAP RING		2		
22	20511	DRIVE GEAR		1		
23	4306584	CLUTCH HOUSING GASKET	4304815,4305668	1		K-2199
24	S-1820	CASE ASSY	4300445	1	FOR USE W/INTEGRAL PUMP	
25	14373	MAGNET		3		S-1820
26	20507	ELEMENT		1		
27	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A -	1		

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
999	K-3367	OIL PUMP KIT	7173 4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		

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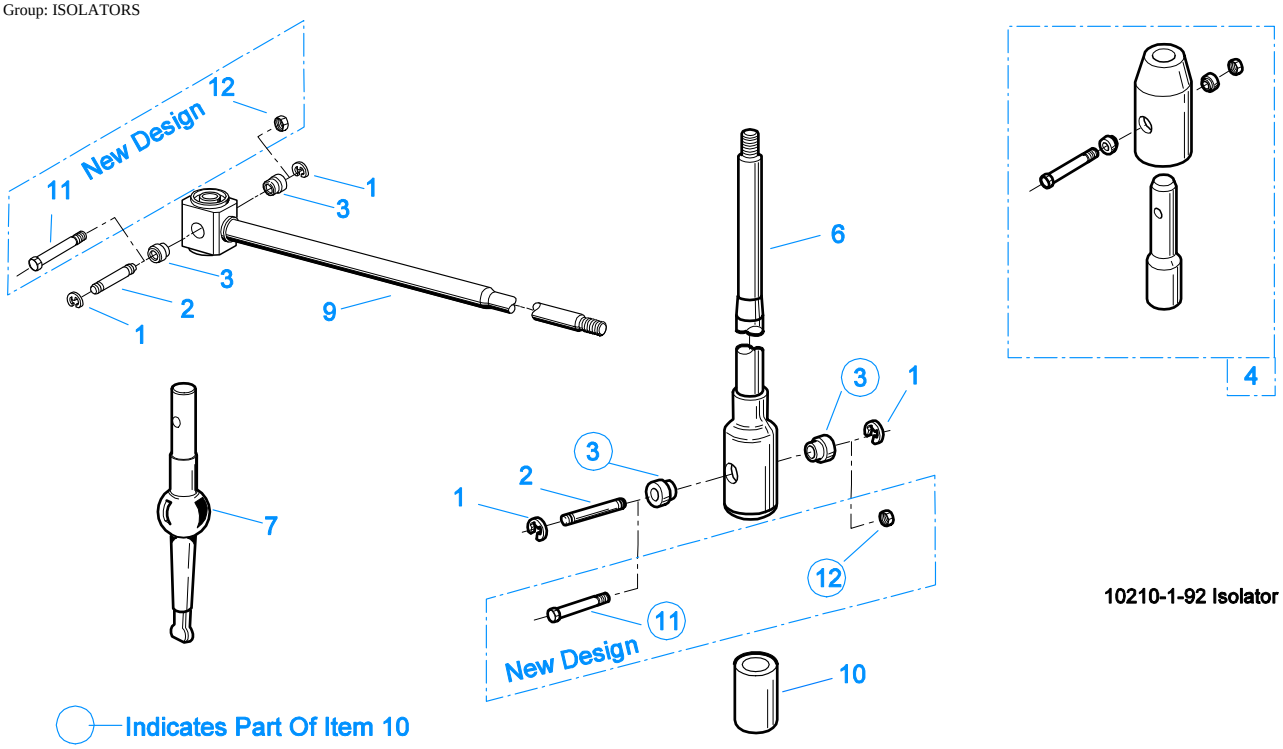
Group: ISOLATORS



10210-1-92 Isolator

ISOLATORS

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	19124	-E- RING		2		
2	K-3467	PIN REPLACEMENT KIT	21245	1		
3	21246	BUSHING		2		K-2003,K-2428,K-2429,K-2978,K-3399,S-2129,S-2130,S-2519
4	S-1794	ISOLATOR ASSY		1		
6	21247	LEVER		1	STRAIGHT 18.67"	
7	21235	STUB LEVER		1	LOW TOWER	K-2428,S-1677
7	21236	STUB LEVER		1	HIGH TOWER	K-2429,S-1579,S-2130
7	4301168	STUB LEVER		1	MID TOWER	K-2978
9	21767	90 DEG LEVER		1	STRAIGHT 33"	
10	K-3399	ISOLATOR BUSHING KIT	21244 ,23311	1		
11	X-8-560	SCREW		1		
12	X-9-503	NUT		1		

KITS & ASSEMBLIES

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
	K-1431	RANGE CYL-KIT		1		
	K-1450	-O- RING KIT-RANGE		1		
	K-1698	-O- RING/ELEMENT KIT		1	FOR FILTER REGULATOR	
	K-1935	REPAIR KIT-SLAVE VALVE		1	FOR A-5000 VALVE	
	K-1956	COOLER INSTLN KIT		1		
	K-2002	-O- RING KIT		1		K-2338,K-2993,K-2996
	K-2003	PIN & BUSHING KIT		1		
	K-2072	MASTER VALVE REPAIR KIT		1	FOR A-5013 VALVE	
	K-2078	-O- RING KIT - SPLITTER		1	SPLITTER	
	K-2199	GASKET KIT		1		K-2993,K-2996
	K-2262	OIL SEAL W/SLINGER	19109 20807 20808	1	"FOR MECHANICAL COVER"	K-2338,K-2993,K-2996
	K-2338	BASIC OVERHAUL KIT		1	FOR AUXILIARY SECTION	
	K-2394	AIR SYSTEMS TOOL KIT		1		
	K-2433	SMALL PARTS KIT		1		
	K-2468	CLUTCH INSTALLATION KIT		1	FOR USE WITH S-1659 INPUT SHAFT ASSY AND 81504 INPUT SHAFT BEARING	
	K-2977	SHIFT LEVER HSG KIT	4301167 ,4304907 ,A - 6040	1	MID TOWER	
	K-2978	LEVER REPLACEMENT KIT		1	MID TOWER	
	K-2993	BASIC OVERHAUL KIT		1		
	K-2996	BASIC REBUILD KIT		1		
	K-3189	REPLT KIT-DRIVE GEAR	4300467 ,4303558 ,K - 2312	1		
	K-3191	MASTER VALVE REPAIR KIT		1	FOR A-6918 VALVE	
	K-3196	MASTER VALVE REPAIR KIT		1	FOR A-7318 VALVE	
	K-3209	IDLER SHAFT REPL KIT	16405 ,4302981 ,4305513	1		
	K-3333	SPLITTER VLV REPL KIT	A - 6861	1		
	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		
	K-3399	ISOLATOR BUSHING KIT	21244 ,23311	1		
	K-3467	PIN REPLACEMENT KIT	21245	1		
	K-3492	SYNCHRONIZER KIT	K - 2446	1		
	K-3494	SYNCHRONIZER REPLACEMENT KIT	K - 2448	1	SLIDING CLUTCH INCLUDED IN KIT	
	K-4125	CLUTCH INSTALLATION KIT (RT), HYDRAULIC RELEASE		1	STANDARD RT INPUT SHAFT AND YOKE FOR HYDRAULIC CLUTCH RELEASE	
	S-1219	YOKE ASSY LOW-REV		1		
	S-1404	OIL FILTER	17238	1		
	S-1516	CAP ASSY	20851 ,20853	1		
	S-1529	SHIFT BAR HSG ASSY (F)	20213 ,22956	1	COMPLETE	
	S-1531	SHIFT BAR HSG ASSY (STD)	20211 ,22955	1	COMPLETE	
	S-1659	INPUT SHAFT	20535 23566 4302661	1	2" PULL - USE W/FBC 20550	K-2468,K-2993,K-4125
	S-1660	INPUT SHAFT	23567	1	2" PUSH	
	S-1820	CASE ASSY	4300445	1	FOR USE W/INTEGRAL PUMP	
	S-1893	RANGE SECTION ASSY		1		
	S-2119	REAR BRG COVER ASSY	20048 ,22045 ,4302009 ,4302031 ,S - 1558 S - 1560	1	EXTENDED	
	S-2129	SHIFT LEVER HSG ASSY		1	LOW TOWER	
	S-2130	SHIFT LEVER HSG ASSY	S - 2053	1	HIGH TOWER	
	S-2519	SHIFT LEVER HSG ASSY	S - 2919	1	MID TOWER	
	S-2660	MAINSHAFT ASSY	21594 ,4303714 ,S - 1561	1		

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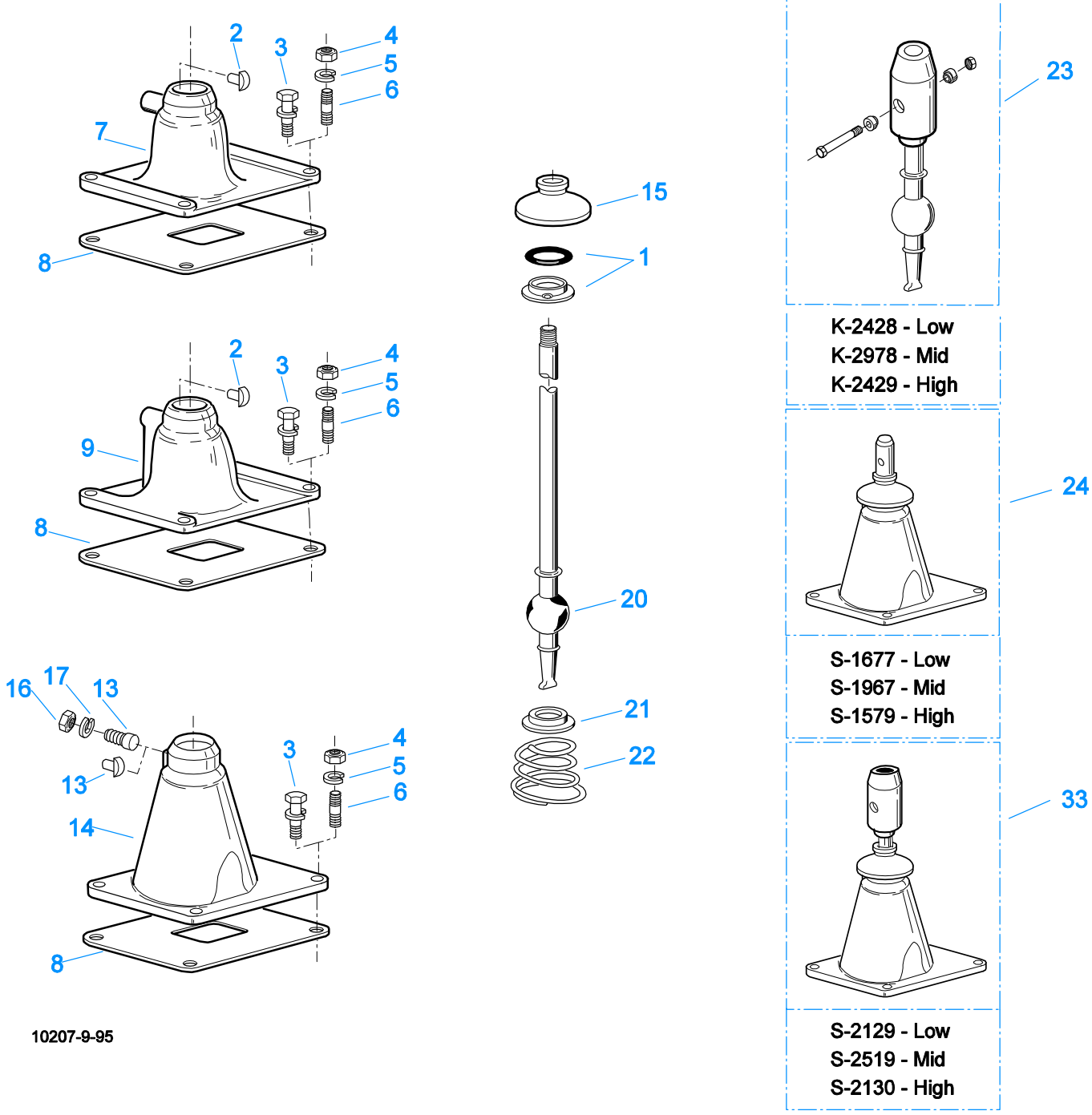
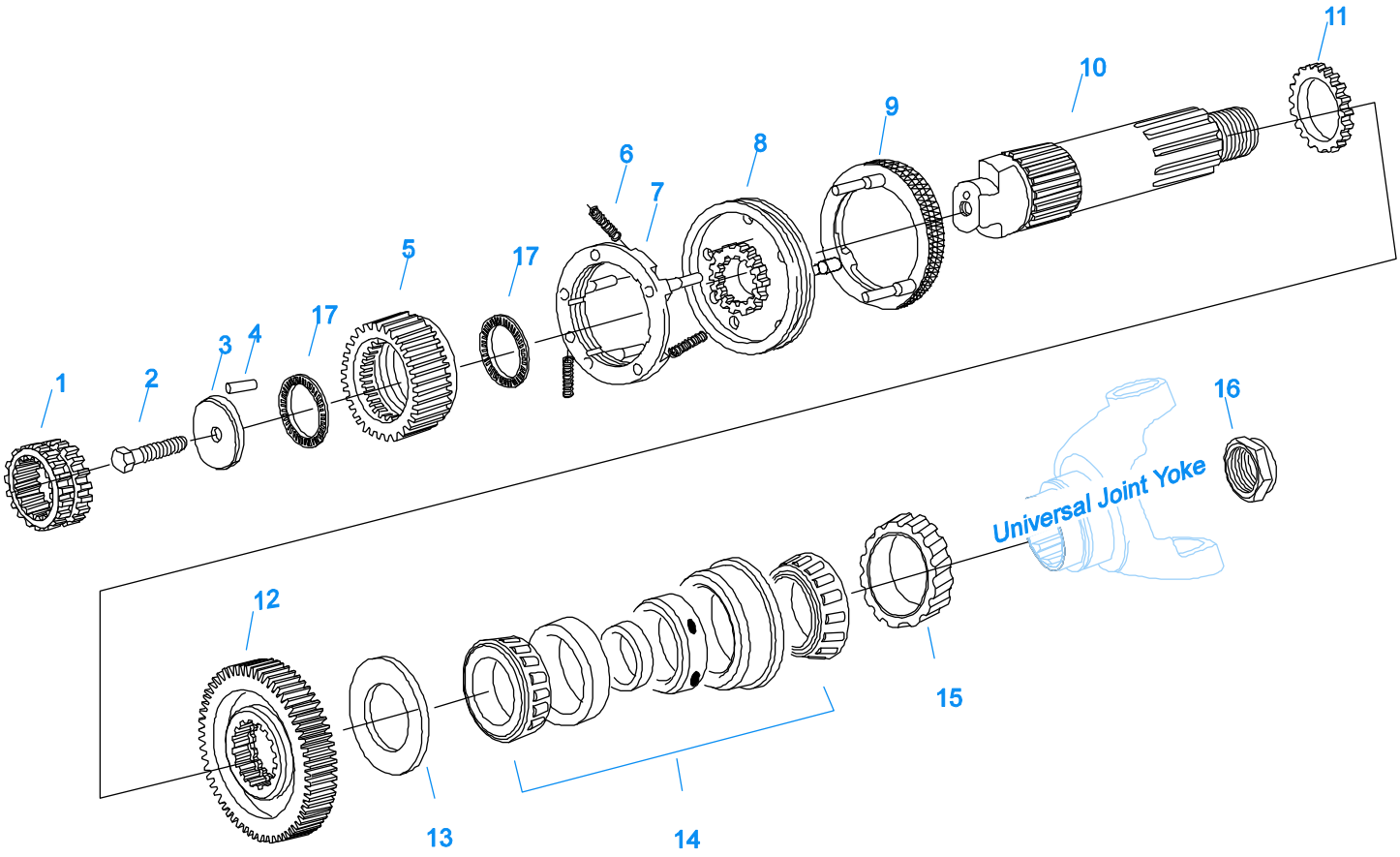


LEVERS/HOUSINGS

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	K-3376	O-RING & WASHER KIT	4301211	1		
2	18299	PIN		1		K-1476,K-2977,S-1677
3	X-8C-604	CAPSCREW		4	3/8"-16X1-1/4"	S-1529,S-1531
4	X-1-600	NUT		4	3/8"-24-N.F.PLAIN	
5	X-3-600	LOCKWASHER		4	3/8"	
6	11934	STUD	7467	4		
7	K-1476	SHIFT LEVER HSG	4530 ,17163 ,18298 ,4304905 ,A - 4437	1	LOW TOWER	
8	4305294	GASKET	4303431	1		K-1476,K-2199,K-2428,K-2429,K-2973,K-2977,K-2978,S-

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
						1529,S-1531,S-1579,S-1677,S-1967,S-2129,S-2130,S-2519
9	K-2977	SHIFT LEVER HSG KIT	4301167 ,4304907 ,A - 6040	1	MID TOWER	
13	4303030	PIN		1		K-2973,S-1579,S-2130
13	6541	PIN		1	3/8" - USED W/17167 ONLY	
14	K-2973	SHIFT LEVER HSG KIT	17166 ,17167 ,4303050 ,4304910 ,K - 1630 K - 1941	1	HIGH TOWER	
15	10427	BOOT		1		K-1476,K-2973,K-2977,S-1579,S-1677,S-2130
16	X-1-600	NUT		1	3/8"-24-N.F.PLAIN	
17	X-3-600	LOCKWASHER		1	3/8"	
20	17600	GEAR SHIFT LEVER		1	STRAIGHT - LOW 21-1/2"	
20	18482	GEAR SHIFT LEVER		1	STRAIGHT - HIGH 35"	
21	2538	RETAINER		1		K-1476,K-2973,K-2977,S-1579,S-1677,S-2130
22	2536	SPRING		1		K-1476,K-2973,K-2977,S-1579,S-1677,S-2130
23	K-2428	LEVER REPLACEMENT KIT		1	LOW TOWER	
23	K-2429	LEVER REPLACEMENT KIT		1	HIGH TOWER	
23	K-2978	LEVER REPLACEMENT KIT		1	MID TOWER	
24	S-1579	SHIFT TOWER ASSY		1	HIGH TOWER	
24	S-1677	SHIFT TOWER ASSY		1	LOW TOWER	
24	S-1967	SHIFT TOWER ASSY		1	MID TOWER	
33	S-2129	SHIFT LEVER HSG ASSY		1	LOW TOWER	
33	S-2130	SHIFT LEVER HSG ASSY	S - 2053	1	HIGH TOWER	
33	S-2519	SHIFT LEVER HSG ASSY	S - 2919	1	MID TOWER	

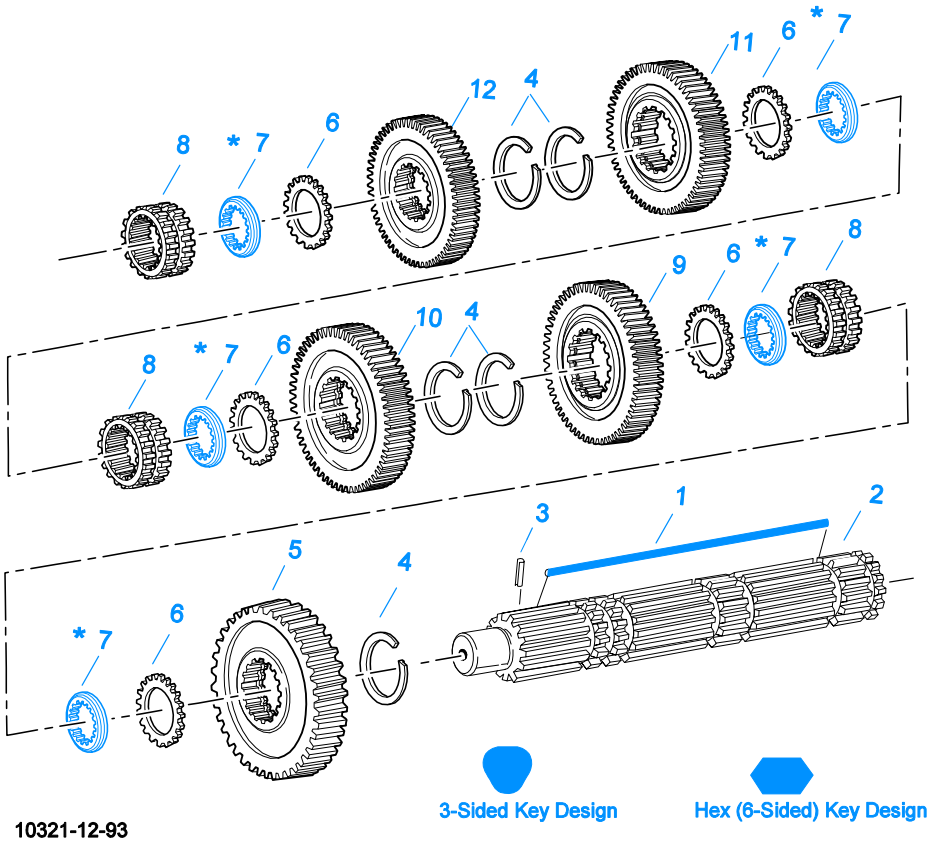


10422-4/92 Aux MS 13/18spd

MAINSHAFT & SYNCHRO(AUX)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	21930	SLIDING CLUTCH		1		
2	X-7-1005	CAPSCREW		1	5/8"-18X1-3/4"	
3	K-2617	RETAINER REPL KIT	21606	1		
4	62511	ROLL PIN		1		A-6689,K-2433
5	21931	SPLITTER GEAR-MAINSHAFT		1		K-2616,K-2617
6	14897	SPRING		3		K-2338,K-2433,K-2993,K-2996,K-3492,K-3494
7	A-7331	SYNCHRONIZER ASSY	4304396 4304397 A - 5917	1	HI RANGE	K-3492,K-3494
8	20323	SLIDING CLUTCH		1		K-3494
9	A-7254	SYNCHRONIZER ASSEMBLY	A - 4937 A - 5876	1	LO RANGE	K-3492,K-3494
10	K-2616	MAINSHAFT REPL KIT	21604	1		
11	19203	SPACER		1		K-2433
12	21918	RECUDTION GEAR		1		
13	16772	WASHER		1		K-2433
14	15260	BEARING		1		K-2338,K-2993,K-2996
15	20191	ROTOR	16295	1		
16	22254	NUT	11956	1		S-1893
17	4302058	BEARING		2		K-2616,K-2617,K-2993,K-2996

Group: MAINSHAFT ASSY



10321-12-93

* Updating to 3-Sided Key is Recommended.
When Updating to 3-Sided Key Replace all Washers to Match Key Design
Always Use Matching Key and Washer Sets (See Appendix - Mainshaft Washers)

MAINSHAFT ASSY

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	4304614	3-SIDED KEY	4300890	1		K-2366,K-2433
1	K-2366	KEY & WASHER KIT	21326 ,4300763 ,4304614	1	CONTAINS 3-SIDED KEY	
2	S-2660	MAINSHAFT ASSY	21594 ,4303714 ,S - 1561	1		
3	62504	ROLL PIN		1		S-2660
4	14750	SNAP RING		5		K-2433,K-2468,K-2993,K-2996,K-4125
5	16756	REVERSE GEAR-MAINSHAFT	22408	1		
6	14749	SPACER		5		K-2433
7	14711	WASHER .248-.250 WHITE	18701	5	OPTIONAL 14711-14716 USE ANY 5 WASHERS USE WITH 21326 KEY	
7	14712	WASHER .253-.255 GREEN	18702	5	OPTIONAL 14711-14716 USE ANY 5 WASHERS USE WITH 21326 KEY	
7	14713	WASHER .258-.260 ORANGE	18703	5	OPTIONAL 14711-14716 USE ANY 5 WASHERS USE WITH 21326 KEY	
7	14714	WASHER .263-.265 PURPLE	18704	5	OPTIONAL 14711-14716 USE ANY 5 WASHERS USE WITH 21326 KEY	
7	14715	WASHER .268-.270 YELLOW	18705	5	OPTIONAL 14711-14716 USE ANY 5 WASHERS USE WITH 21326 KEY	
7	14716	WASHER .273-.275 BLACK	18706	5	OPTIONAL 14711-14716 USE ANY 5 WASHERS USE WITH 21326 KEY	
7	4300382	WASHER .249-WHITE		5		K-2366,K-2433
7	4300383	WASHER .254-GREEN		5	OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE	K-2366,K-2433

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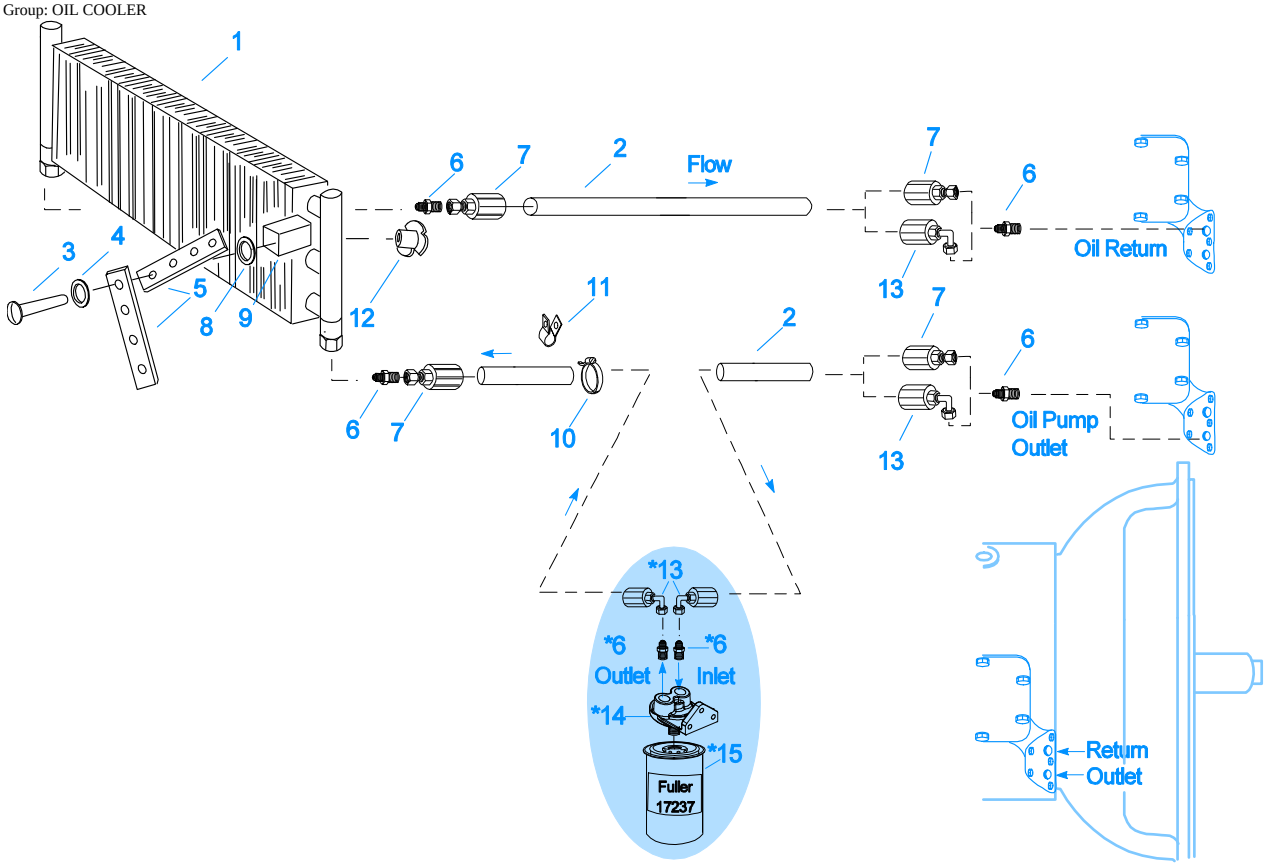
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
					WITH 3-SIDED KEY	
7	4300384	WASHER .259-ORANGE		5	OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY	K-2366,K-2433
7	4300385	WASHER .264-PURPLE		5	OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY	
7	4300386	WASHER .269-YELLOW		5	OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY	
7	4300387	WASHER .274-BLACK		5	OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY	
7	4300830	WASHER .244-BLUE		5		K-2366,K-2433
8	16118	SLIDING CLUTCH		3		K-2993
9	4300654	LO GEAR-MAINSHAFT	21593	1		
10	21591	1ST GEAR-MAINSHAFT		1		
11	21589	2ND GEAR-MAINSHAFT		1		
12	21587	3RD GEAR-MAINSHAFT		1		

MISCELLANEOUS

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
	21628	SHIFT DIAGRAM LABEL	4300591	1		
	71203	SILICONE LUBE		1	8 OZ (236.59 CC)-FLEET SIZE	
	71204	ADHESIVE SEALANT		1	0.5 CC (SINGLE APPLICATION SIZE)	
	71205	SEALANT		1	2 CC (SINGLE APPLICATION SIZE)	K-2993
	71206	SILICONE LUBE		1	4 CC (SINGLE APPLICATION SIZE)	K-1431,K-1450,K-2002,K-2078,K-2428,K-2429,K-2978,K-3333

Group: OIL COOLER



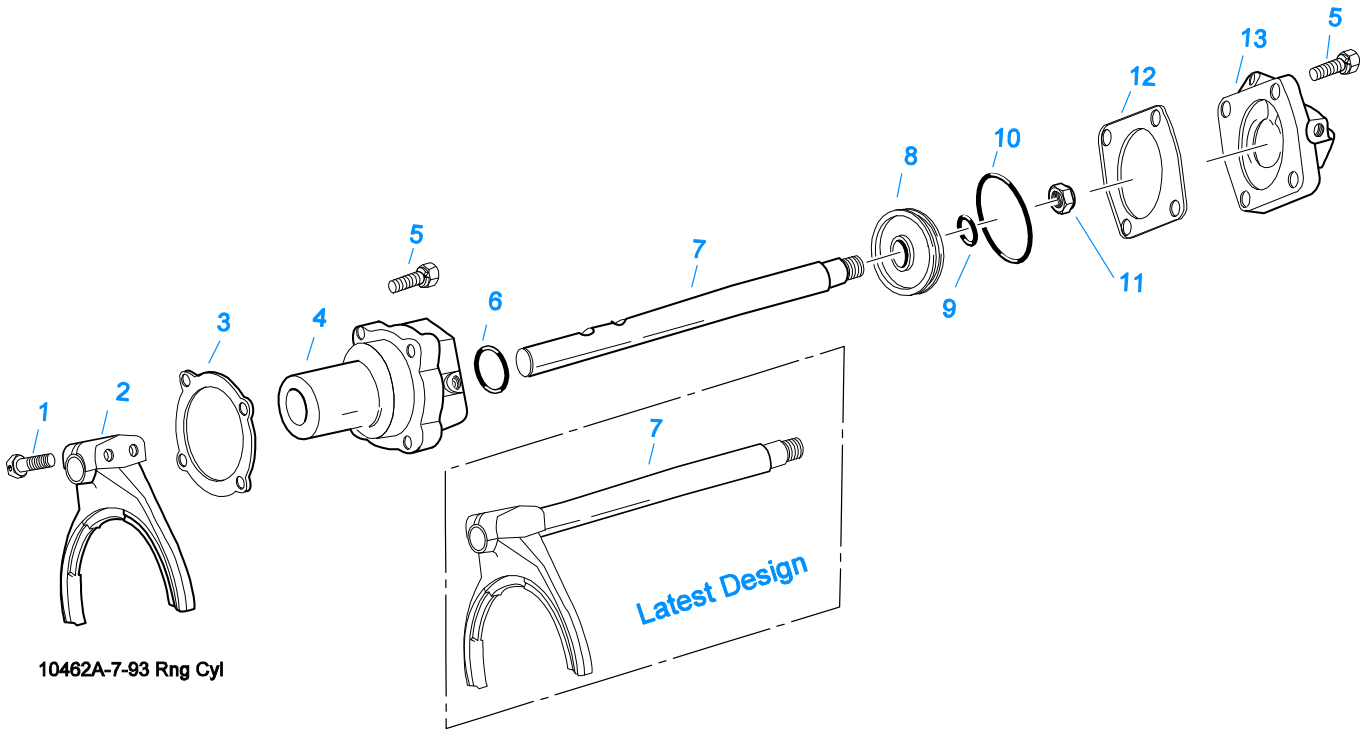
10525-4/92 Cooler

*Adding Oil Filter and parts as shown is optional.

Return / Outlet Location

OIL COOLER

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	18025	OIL COOLER		1		K-1956
2	19424	HOSE		1	25 FEET	K-1956
3	X-8-535	CAPSCREW		2	5/16"-16X2-1/2"	
4	X-3-506	LOCKWASHER		2	5/16"	
5	18211	BRACKET		4		K-1956
6	19419	CONNECTOR		6		K-1956,S-1404
7	19415	SWIVEL		4		K-1956
8	X-10-501	WASHER		2	5/16"	
9	18209	PLUG-RUBBER MOUNT		2		K-1956
10	17190	STRAP		8		K-1956
11	19423	CLAMP		5		K-1956
12	18210	NUT		2		K-1956
13	19422	ELBOW		4		K-1956
14	S-1404	OIL FILTER	17238	1		
15	17237	FILTER ELEMENT		1		S-1404



RANGE CYLINDER

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	X-7-809	BOLT	X 7 810 ,X 7 811	2	1/2"-20X1-3/4"	
2	22823	SHIFT YOKE	16775	1		
3	14347	GASKET		1		K-1431,K-2199
4	16778	AUXILIARY CYLINDER		1		K-1431
5	X-8L-604	CAPSCREW		8	3/8"-16X1-1/4"	
6	14765	-O- RING		1		K-1431,K-1450,K-2002
7	4300183	YOKE BAR		1		
7	A-6163	WELDED YOKE ASSY		1		
8	14341	PISTON	23353	1		K-1431
9	14345	-O- RING		1		K-1431,K-1450,K-2002
10	14344	-O- RING		1		K-1431,K-1450,K-2002
11	X-1-1010	NUT		1	5/8"-18	
12	14349	GASKET		1		K-1431,K-1450,K-2002,K-2199
13	19690	CYLINDER COVER		1		

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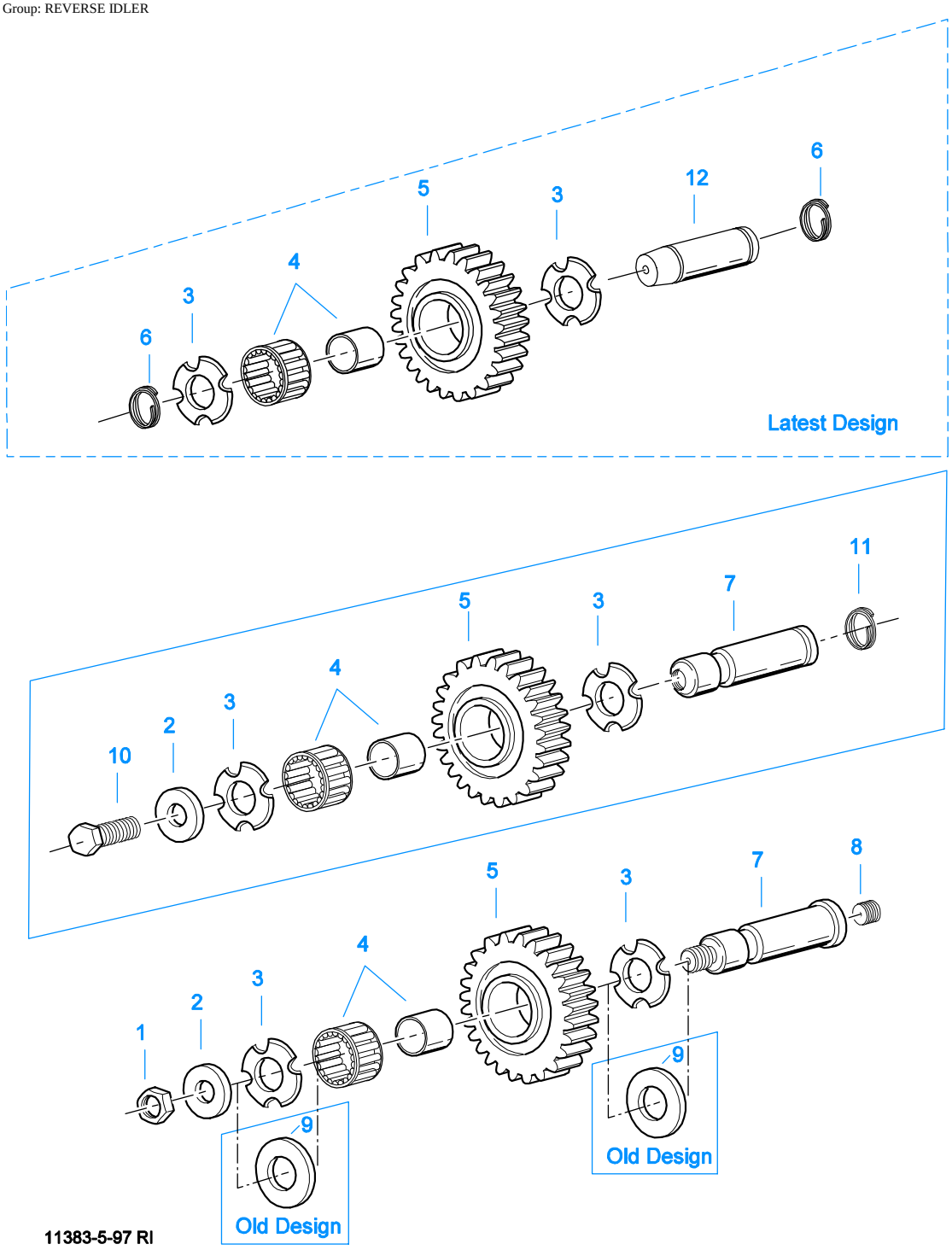
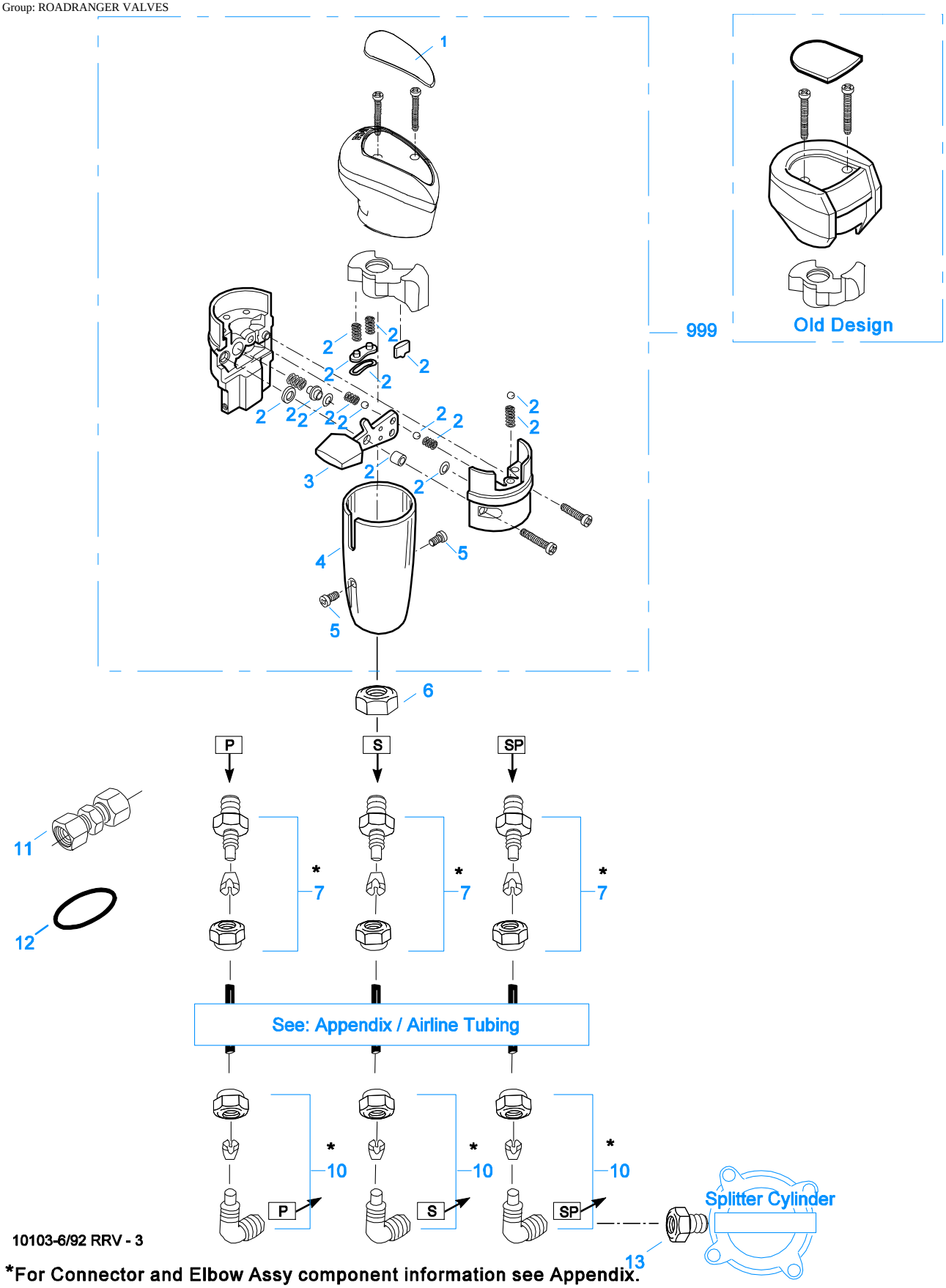
Group: REVERSE IDLER



REVERSE IDLER

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	X-1-1008	NUT		2	5/8"-18	
2	14283	WASHER		2		
3	4302982	WASHER	14282	4		K-3209,S-1820
4	14287	BEARING	4305020	2		K-2993,K-2996
5	16757	REVERSE IDLER GEAR	22409	2		
6	4303336	RETAINING RING		4		K-3209
7	K-3209	IDLER SHAFT REPL KIT	16405 ,4302981 ,4305513	2		
8	5202	PLUG		2		

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
9	14282	NO LONGER AVAILABLE		4		
10	X-7-1008	CAPSCREW		2	5/8"-18X1-1/4	
11	4303336	RETAINING RING		2		K-3209
12	4305513	IDLER SHAFT		2		K-3209

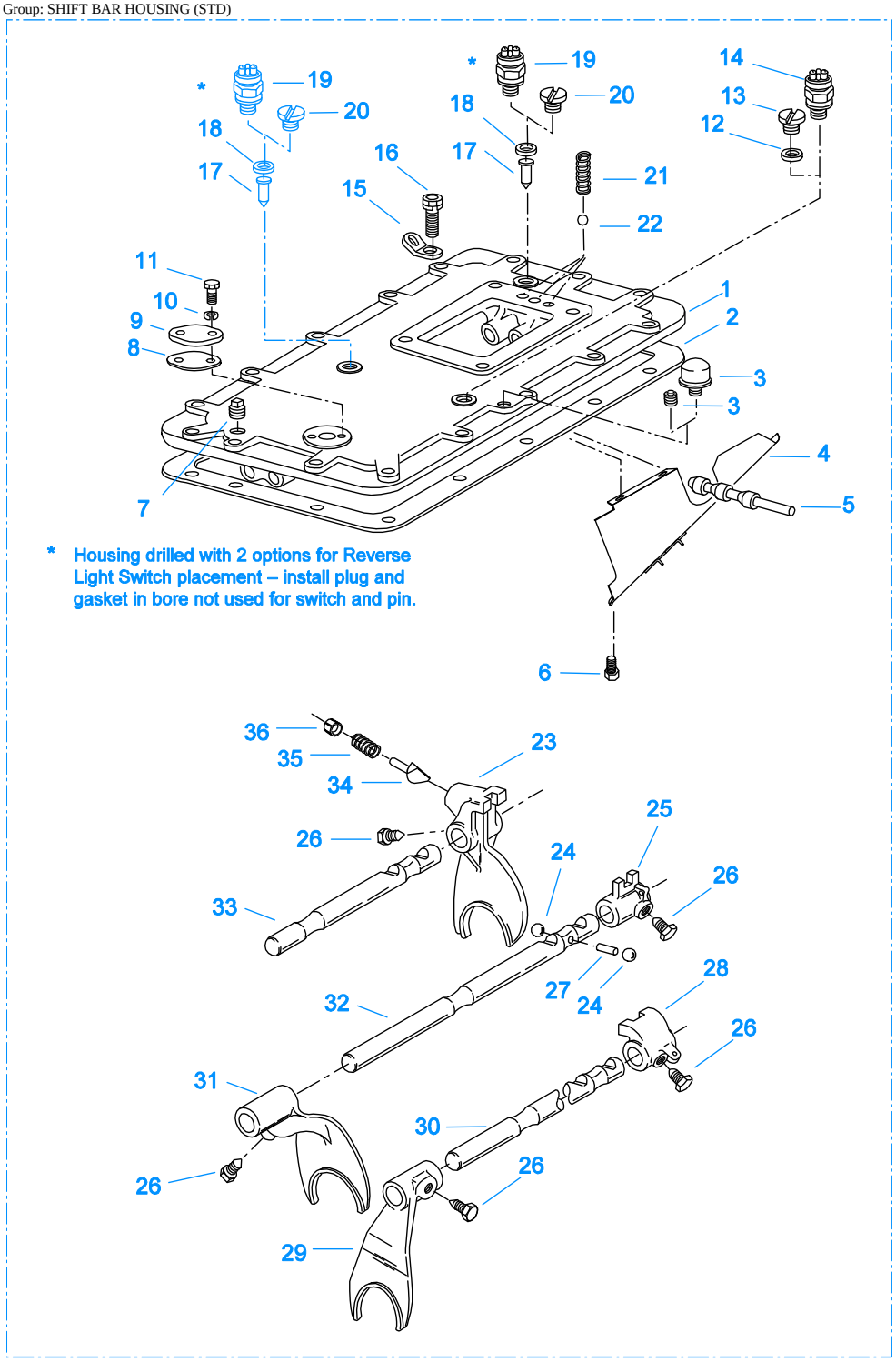


*For Connector and Elbow Assy component information see Appendix.

ROADRANGER VALVES

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	20107	MEDALLION, LOGO		1	(OLD DESIGN) FULLER LOGO ONLY	
1	21691	LOGO MEDALLION	4302349, 4300370	1	(OLD DESGIN) FULLER LOGO (LEFT OF DRIVER)	
1	5586100	MEDALLION, LOGO		1	(LATEST DESIGN) FULLER LOGO ONLY	A-6918,A-7318
1	5586114	SHIFT DIAGRAM MEDALLION		1	RTLO	S-2555
2	K-2072	MASTER VALVE REPAIR KIT		1	FOR A-5013 VALVE	
2	K-2073	MASTER VALVE REPAIR KIT		1	FOR A-5318 VALVE	
2	K-3191	MASTER VALVE REPAIR KIT		1	FOR A-6918 VALVE	
2	K-3196	MASTER VALVE REPAIR KIT		1	FOR A-7318 VALVE	
3	20495	LEVER		1		A-6918,A-7318
4	20112	COVER		1		A-6918,A-7318
5	X-8-213	SCREW	X 8 202	2	8-32X3/8"	
6	X-9-802	NUT		1	1/2"-13	
7	84001	CONNECTOR ASSY	82501	3	1/8"TUBE-1/16"NPTF	
7	84003	CONNECTOR ASSY	82503	3	5/32"TUBE-1/16"NPTF	K-2993
7	84005	CONNECTOR ASSY		3	"PUSH-TO-CONNECT" 5/32"TUBE-1/16"NPTF	
10	85001	ELBOW ASSY	84501	3	5/32"TUBE-1/8"NPTF	K-2338,K-2993
10	85002	ELBOW ASSY	84502	3	1/8"TUBE-1/8"NPTF	
10	85003	ELBOW ASSY		3	"PUSH-TO-CONNECT" 5/32"TUBE-1/8"NPTF	K-3333
11	84101	UNION ASSY		1	1/8" TUBING	
11	84102	UNION ASSY		1	5/32" TUBING	
11	84103	UNION ASSY		1	"PUSH-TO-CONNECT" 5/32" TUBING	
12	13571	-O- RING CLAMP		1		
13	4301233	REDUCER BUSHING	18004	1		
999	A-6918	ROADRANGER VALVE ASSY	A - 5013	1	STANDARD-W/LOGO	
999	A-7318	ROADRANGER VALVE ASSY	A - 5318	1	(LEFT OF DRIVER)-W/LOGO	
999	S-2555	ROADRANGER VALVE ASSY		1	RTLO - W/SHIFT DIAGRAM MEDALLION	

Group: SHIFT BAR HOUSING (STD)



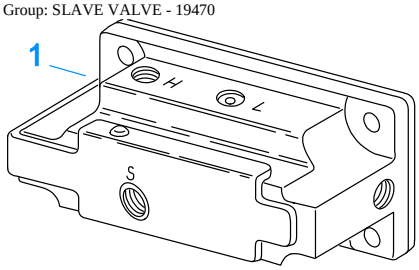
10220-1/92 Standard

SHIFT BAR HOUSING (STD)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	S-1440	SHIFT BAR HSG (STD)	20211 ,22955	1	HOUSING ONLY	
2	4302676	GASKET	14918	1		K-2199,S-1529,S-1531
3	4304602	BREATHER	23605	1	1/4" NPT	
3	X-12-404	PIPE PLUG		1	1/4" NPT	
4	20070	OIL TROUGH		1		S-1529,S-1531
5	20332	AIR VALVE SHAFT	17177	1		S-1529,S-1531

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
6	X-8-423	CAPSCREW		2	1/4"-20X1/2"	
7	X-12-603	PIPE PLUG	X12 602	1	3/8" NPT	
8	20209	GASKET		1		S-1440,S-1529,S-1531
9	20199	PLATE	18724	1		S-1440,S-1529,S-1531
10	X-3-400	LOCKWASHER		2	1/4"	
11	X-8-406	CAPSCREW		2	1/4"-20X3/4"	
12	17179	GASKET		1		S-1440,S-1529,S-1531
13	4303655	PLUG	17178	1		S-1440,S-1529,S-1531
14	22941	NEUTRAL LIGHT SWITCH	12639	1	SWITCH NORMALLY CLOSED	
15	20815	LIFTING EYE	17105	2		S-1893
16	X-8L-602	CAPSCREW		2	3/8"-16X1-1/2" USE W/20815 LIFTING EYES	
16	X-8L-604	CAPSCREW		16	3/8"-16X1-1/4"- OR USE 14 PCS OF X-8L-604 WITH 2 PCS OF X-8L-602	
17	15899	PIN		1		S-1440,S-1529,S-1531
18	15900	GASKET		1		S-1440,S-1529,S-1531
19	22940	REVERSE LIGHT SWITCH	16830	1	SWITCH NORMALLY OPEN	
20	4303656	PLUG	15917	1		S-1440,S-1529,S-1531
21	15918	SPRING		3		K-2433,K-2993,S-1529,S-1531
22	X-14-800	STEEL BALL		3	1/2"	
23	16131	SHIFT YOKE		1	REVERSE	S-1219,S-1531
24	X-14-1200	STEEL BALL		2	3/4"	
25	14658	SHIFT BLOCK		1	1ST/2ND	S-1531
26	3220	LOCKSCREW		5		S-1529,S-1531
27	1634	INTERLOCK PIN		1		K-2433,S-1529,S-1531
28	14659	SHIFT BLOCK		1	3RD/DIRECT	S-1531
29	16136	SHIFT YOKE		1	3RD/DIRECT	S-1529,S-1531
30	16134	YOKE BAR		1	3RD/DIRECT	S-1531
31	16135	SHIFT YOKE		1	1ST/2ND	S-1529,S-1531
32	16133	YOKE BAR		1	1ST/2ND	S-1531
33	16132	YOKE BAR		1	REVERSE/LOW	S-1531
34	10019	PLUNGER		1		S-1219,S-1529,S-1531
35	6392	SPRING		1		S-1219,S-1529,S-1531
36	8968	PLUG		1		S-1219,S-1529,S-1531
999	S-1531	SHIFT BAR HSG ASSY (STD)	20211 ,22955	1	COMPLETE	

Group: SLAVE VALVE - 19470

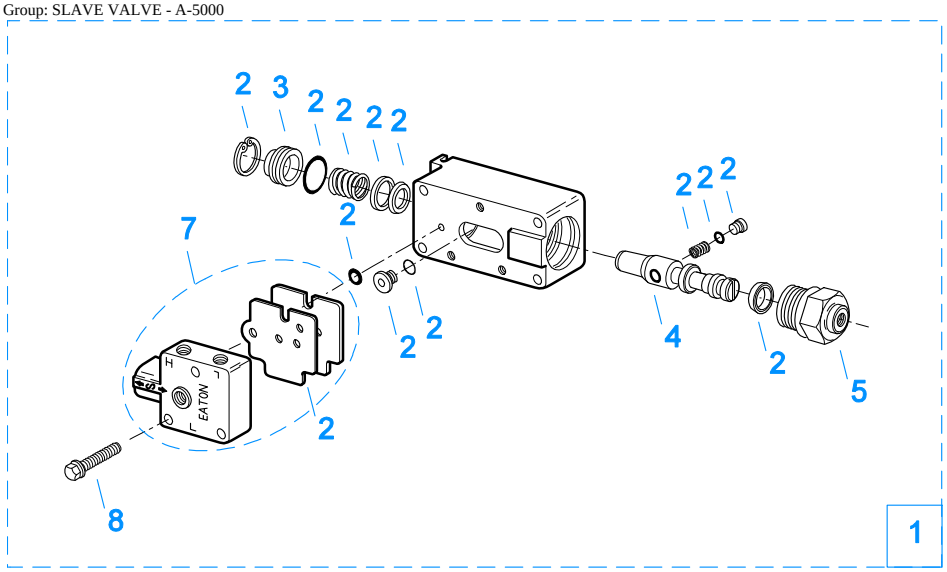


10121-1/92 19470 SV

SLAVE VALVE - 19470

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	K-2424	VALVE REPLACEMENT KIT	19470	1		

Group: SLAVE VALVE - A-5000



10120-10-97 A-5000 SV

SLAVE VALVE - A-5000

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	A-5000	SLAVE VALVE ASSY	20850	1		K-2424
2	K-1935	REPAIR KIT-SLAVE VALVE		1	FOR A-5000 VALVE	
3	20855	PLUG		1		A-5000
4	20854	PISTON		1		A-5000
5	20849	CAP	15131	1		A-5000
7	S-1516	CAP ASSY	20851 ,20853	1		
8	X-8C-413	CAPSCREW		3	1/4"-20X1-1/2"	

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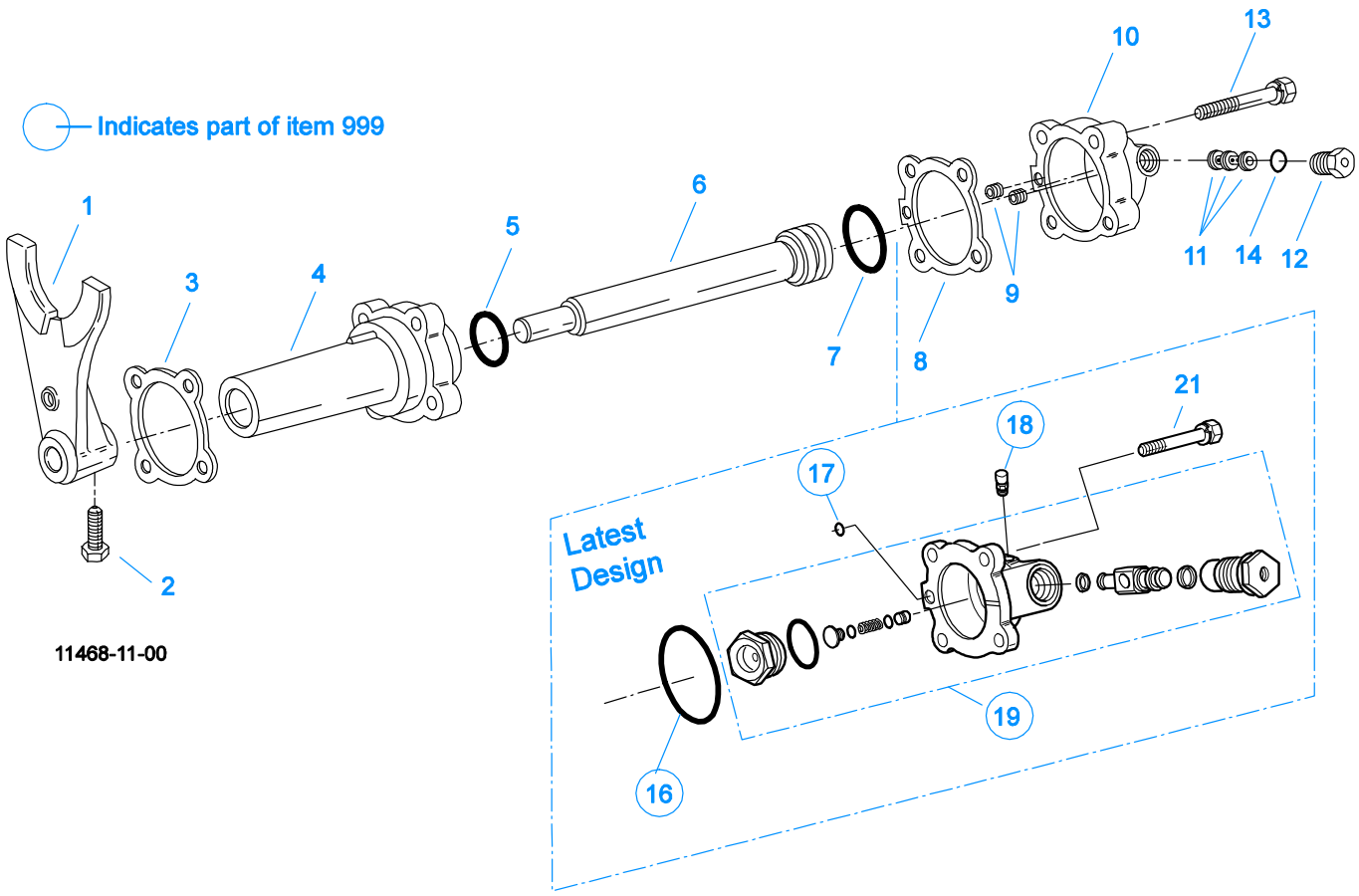

SPLITTER CYLINDER

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	21607	SHIFT YOKE		1		
2	3220	LOCKSCREW		1		S-1529,S-1531
3	14632	GASKET		1		K-2078,K-2199
4	21609	SPLITTER CYLINDER		1		
5	21208	-O- RING		1		K-2002,K-2078
6	4300182	YOKE BAR		1		
7	21209	-O- RING		1		K-2002,K-2078
8	17073	GASKET		1		K-2002,K-2078,K-2199
9	X-12-101	PLUG		2	NOT SOLD FOR SERVICE	
10	21760	COVER		1		
11	19974	INSERT VALVE	15512 4303616	1		K-2338,K-2993,K-2996
12	4301233	REDUCER BUSHING	18004	1		
13	X-8L-540	CAPSCREW		4	5/16"-18X1-7/8"	
14	5568504	-O- RING		1		
16	5568534	-O- RING		1		K-2078,K-3333
17	13653	-O- RING		1		K-3333
18	X2014210	BREATHER	7935	1		
19	K-3333	SPLITTER VLV REPL KIT	A - 6861	1		
21	X-8L-540	CAPSCREW		4	5/16"-18X1-7/8"	
999	K-3333	SPLITTER VLV REPL KIT	A - 6861	1		