



Roadranger®

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Illustrated Parts List

RT-12709H

November 2012

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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 illustrations for part identification.
- **Current Part** - identifies 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**



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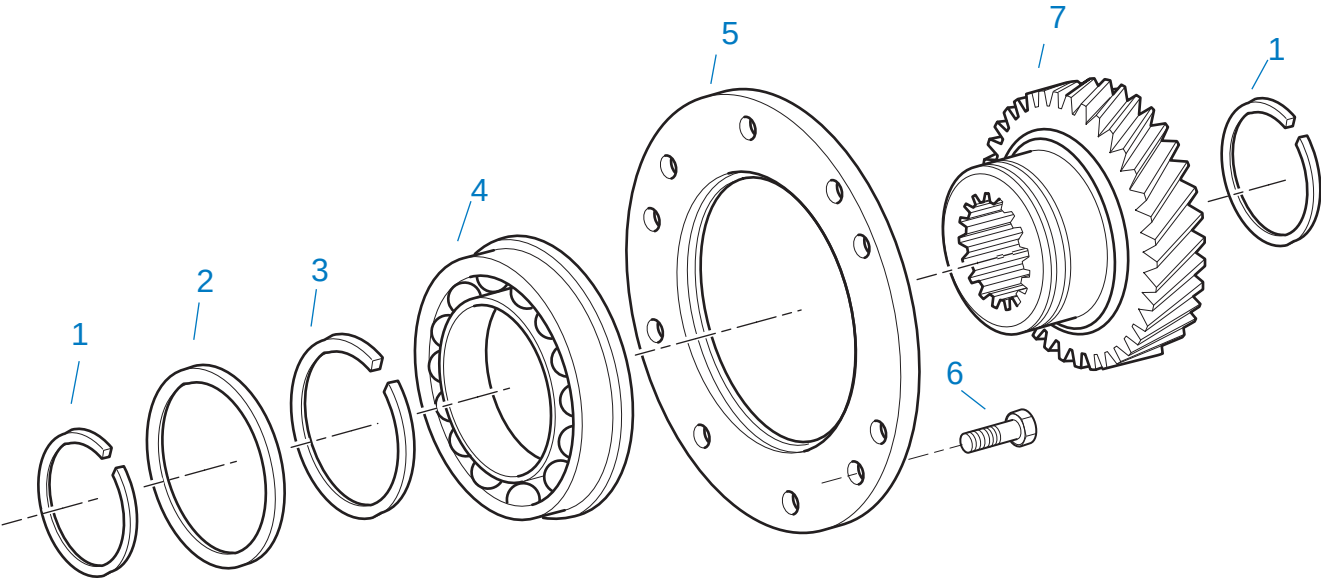


AFTMKT 09-12

Generic Illustration - Not specific to part numbers listed below

AFTERMARKET TRANSMISSIONS

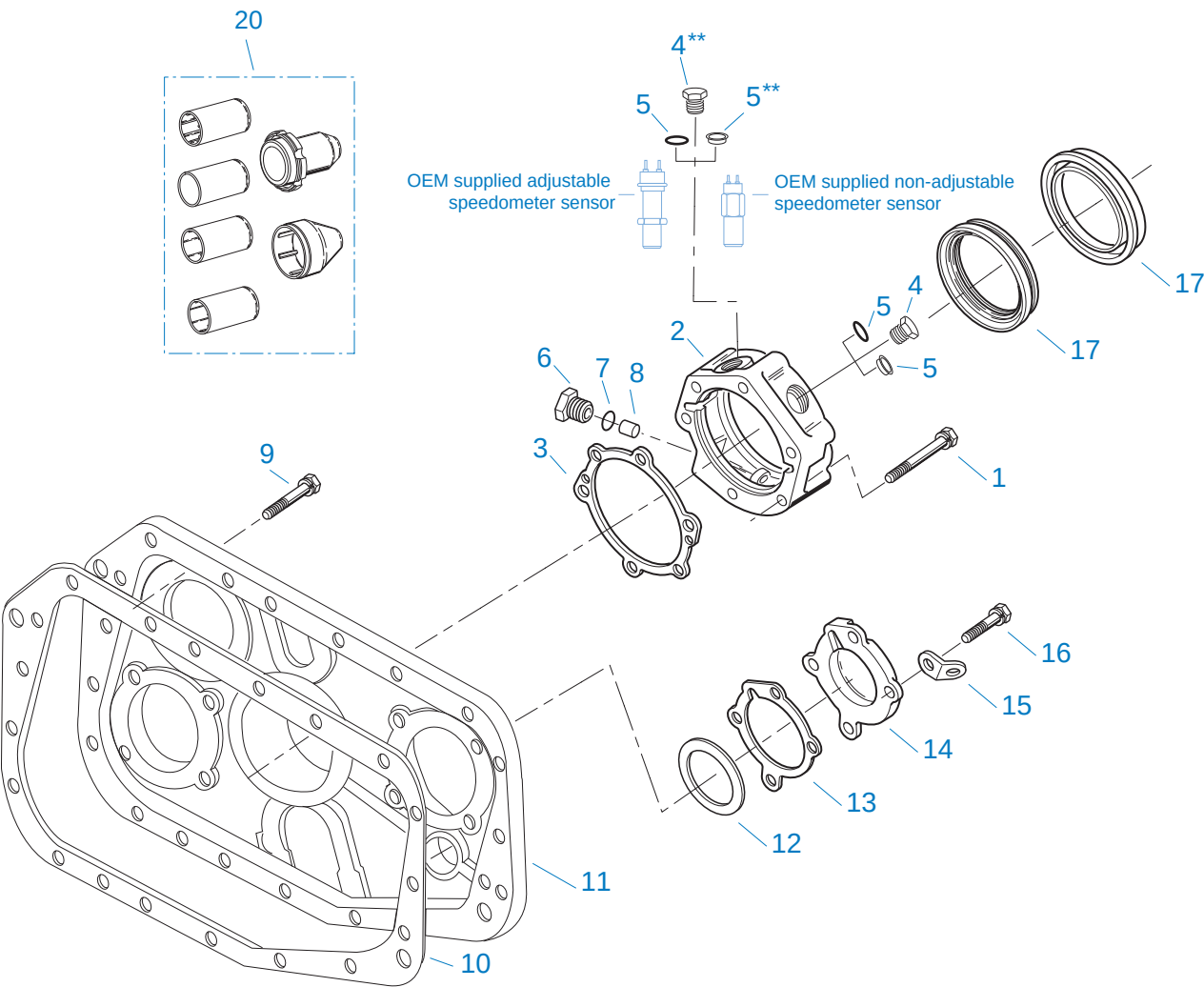
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
	TA-A15-11R	RT-12709H REMAN TRANS		1	NO INTERNAL PUMP	
	TA-A15-11X	RT-12709H NEW SVC EXCH TRANS		1	NO INTERNAL COOLER - NO CLUTCH HOUSING	



10480-12/92 Aux DG

AUXILIARY DRIVE GEAR

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	16763	SNAP RING		2		K-1996,K-2049,K-2284,K-2410,K-2763,K-3159,K-3166
2	21320	SNAP RING RETAINER		1		K-2284,K-2410,K-2763
3	16628	SNAP RING		1		K-2410
4	5566507-BOX	BEARING	5566504,5566507	1		K-1996,K-2049,K-2284,K-2763
5	16138	BEARING RETAINER		1		
6	X-8-645	CAPSCREW	X 8 612	6	3/8"-16X1"	
7	23159	AUXILIARY DRIVE GEAR	21321	1		



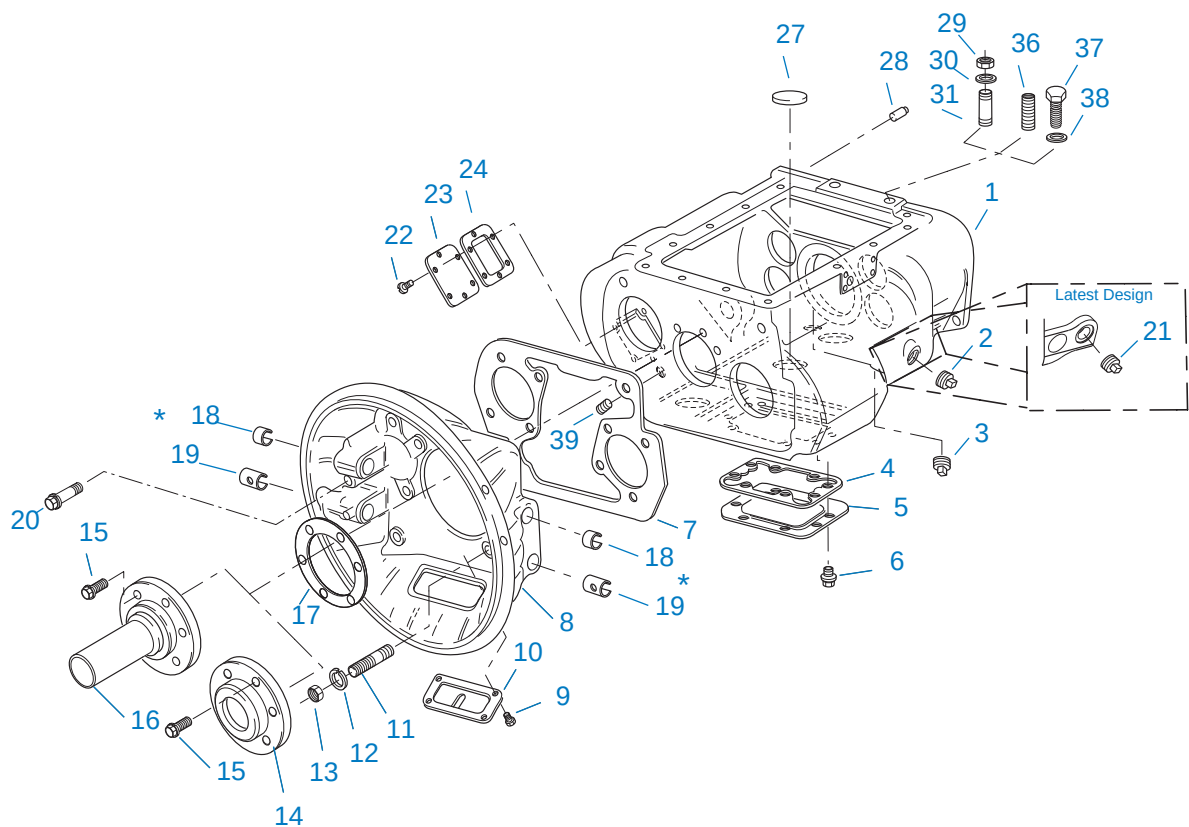
11401-3-98 Aux Case

** 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

CASE (AUX)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	X-8L-605	CAPSCREW		6	3/8"-16X3"	
2	S-2106	REAR BRG COVER ASSY	22732 ,23368 ,4302025 ,S - 1552	1		
3	21364	GASKET		1		K-2061,K-2262,S-2106
4	20224	PLUG-MAGNETIC		2		S-1778,S-2106
5	13679	-O- RING		1	USE W/OEM SUPPLIED ADJUSTABLE SPEEDOMETER SENSOR NOT TO BE USED WITH 4301954 SEAL	
5	20225	-O- RING		2	USE W/20224 PLUG OR OEM SUPPLIED NON-ADJUSTABLE	

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
					SPEEDOMETER SENSOR NOT TO BE USED WITH 4301954 SEAL	
5	4301954	SENSOR SEAL		2	O-RING NOT REQUIRED	S-2106
6	20226	PLUG-MECHANICAL	2237	1		S-1778,S-2106
7	14142	-O- RING		1		S-1778,S-2106
8	7992	BUSHING		1		S-2106
9	X-8L-602	CAPSCREW		16	3/8"-16X1-1/2"	
9	X-8L-614	CAPSCREW		2	3/8"-16X2"	
9	X-8L-616	CAPSCREW	X 8 616	1	3/8"-16X2-3/4"	
10	14335	GASKET		1		K-2061,S-1778
11	22900	REAR HOUSING		1		
12	K-2805	SHIM KIT	21452 K - 2106	1		K-1996,K-2049,K-2284,K-2763,S-1778
13	4305978	GASKET	4302246	2		K-2061,S-1778
14	4302320	COVER	21346	2		S-1778
15	20815	LIFTING EYE	17105	2		
16	X-8L-600	CAPSCREW		6	3/8"-16X1"	
16	X-8L-604	CAPSCREW		2	3/8"-16X1-1/4" USE W/LIFTING EYES	
17	K-2262	OIL SEAL W/SLINGER	19109 20807 20808	1	"FOR MECHANICAL COVER"	K-1996,K-2049,K-2284,K-2763
20	K-3651	OIL SEAL TOOL KIT		1		



10300-6-92 Iron/Alum Hsg

* 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.

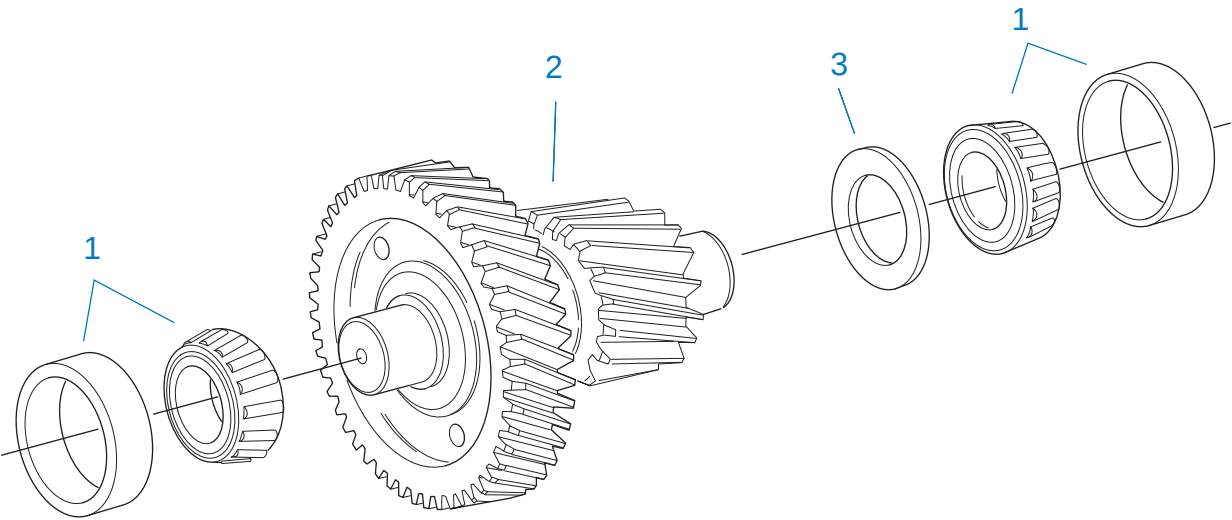
Note: Some part requirements are specific to #1 or #2 Aluminum or Iron Clutch Housings and Push or Pull type Clutch.

CASE (FRONT)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	S-1545	CASE ASSY	21528	1	FOR USE W/INTEGRAL PUMP	
1	S-1549	CASE ASSY	21318	1		
2	X-12-2007	PIPE PLUG	X12 2006	1		
3	X-12-1207	PIPE PLUG	X12 1202 ,X12 1206	1	3/4" MAGNETIC	
4	4305310	GASKET	4302810	1		K-2061
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-2061
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	
8	A-4772	CLUTCH HOUSING ASSY	A - 4344 ,A - 4771	1	#2 PUSH-PULL ALUM.	

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
8	A-6064	CLUTCH HOUSING ASSY	A - 4342 ,A - 4770 ,A - 6062 ,A - 6063 ,A - 6065	1	#1 PUSH-PULL ALUM.	
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" USE 6 PCS WITH PULL TYPE COVER USE 4 PCS WITH PUSH TYPE COVER	
15	X-8L-619	CAPSCREW		2	3/8"-16X1-1/4" - USE WITH PUSH TYPE COVER	
16	20549	FRONT BRG COVER		1	2" PUSH	
17	14311	GASKET		1		K-2061
18	12815	BUSHING		2	FOR #2 HOUSING - UPPER	A-3713,A-3723,A-4772,A-6064,K-2468
18	12815	BUSHING		4	FOR #1 HOUSING - UPPER	A-3713,A-3723,A-4772,A-6064,K-2468
18	8677	BUSHING		1	FOR #2 HOUSING - UPPER	A-3713,A-3723,A-4772,A-6064
19	8677	BUSHING		3	FOR #1 AND #2 HOUSING - LOWER	A-3713,A-3723,A-4772,A-6064
20	X-8C-830	HEX HEAD SCREW/WASHER ASSY	X-8C-826	4	.500-13 X 1.490, USE 2 PCS FOR IRON HOUSING, USE 4 PCS FOR ALUMINUM HOUSING	
20	X-8C-831	HEX HEAD SCREW/WASHER ASSY	X-8C-822	2	.500-13 X 3.460, FOR IRON HOUSING	
21	4304023	PLUG	4303747	1	1-1/16" MAGNETIC, O-RING INCLUDED	S-1545,S-1549,S-1736,S-1826
22	X-8-686	CAPSCREW		6	3/8"-16X3/4"	
23	14575	PTO COVER	4302254	1		
24	4305309	GASKET	1684	1		K-2061
27	14373	MAGNET		3		S-1545,S-1549,S-

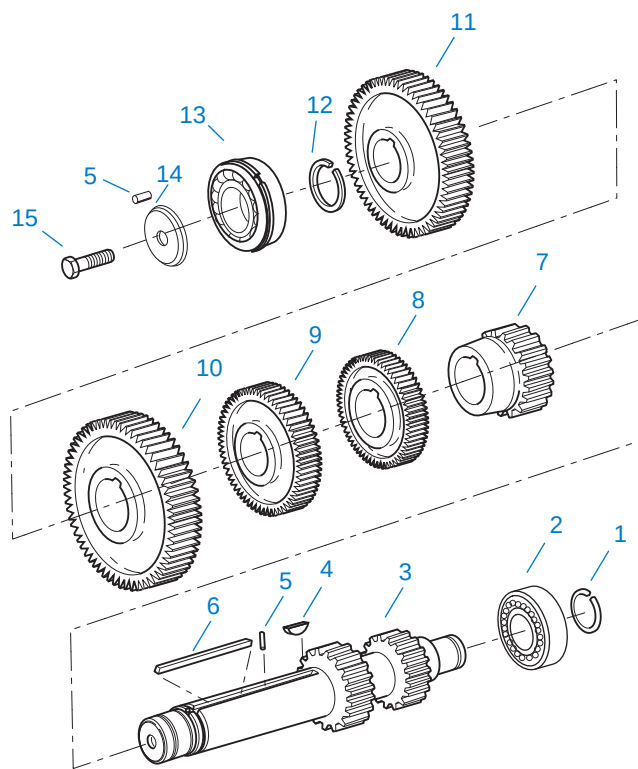
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
						1736,S-1826
28	18128	PIN		2		
29	X-1-1012	HEX NUT		2	.625-18	
30	X-10-1005	WASHER	X 3 1000 ,X10 1000 ,X10 1004	2	1.23 X 6.60	
31	14554	STUD	1632 ,6579	2	5/8" X 2-3/16"	
36	23104	PLUG	1712	2		
37	X-8-1005	CAPSCREW		2	5/8"-11X1-1/4"	
38	20814	SPACER		2		
39	X-12-802	PIPE PLUG	X12 800	1	1/2"	



10440-1/92 Aux CS Helical

COUNTERSHAFT & BRGS(AUX)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	4302074-BOX	BEARING	21343,4302074	4		K-1996,K-2049,K-2284,K-2763
2	A-5674	WELDED COUNTERSHAFT ASSY	A - 5672 ,A - 5673	2	C/S 23024 - D/G 23160	
3	22903	SPACER		2		K-2410

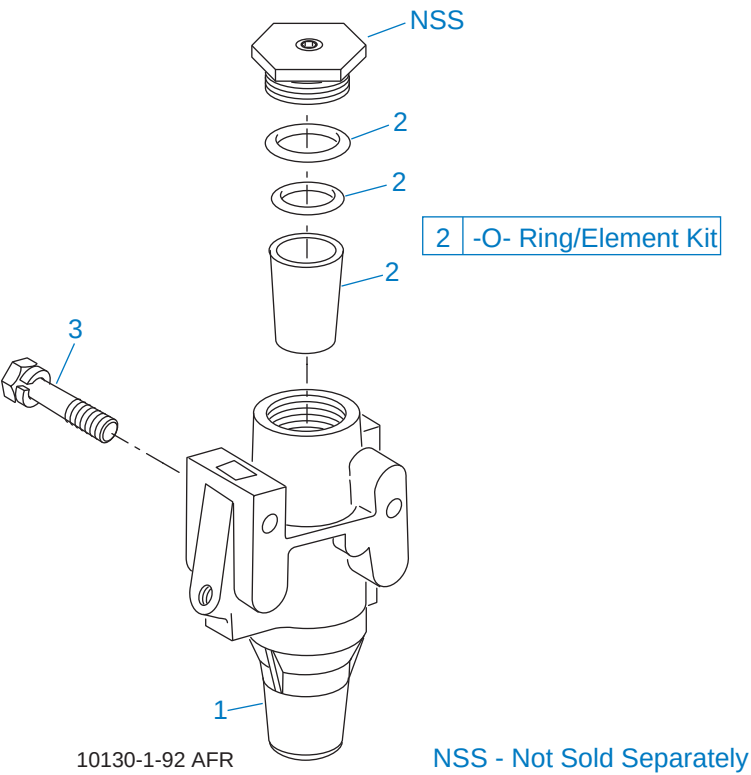


10340-1/92 CS/RT

COUNTERSHAFT ASSY

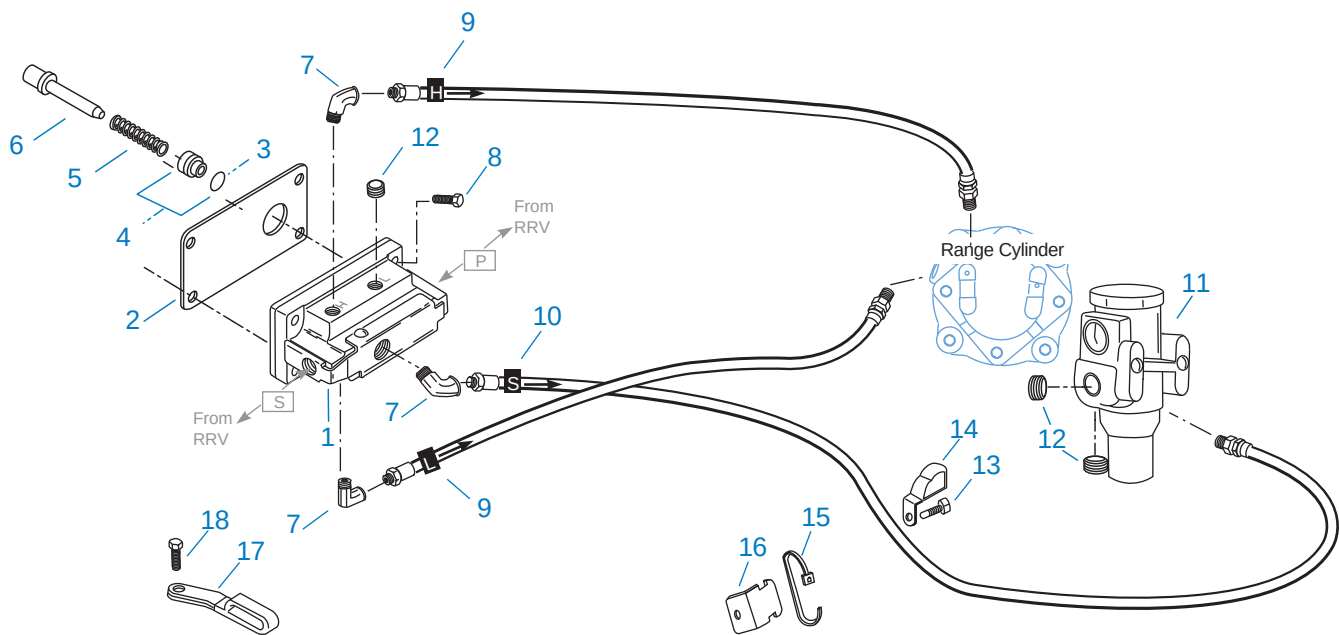
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	14317	SNAP RING		2		K-1996,K-2049,K-2284,K-2410,K-2763
2	14366	BEARING		2		K-1996,K-2049,K-2284,K-2763
3	K-2934	CNTRSHFT-W/REV & LO	19549	2		
4	X-6-E	KEY		2		
5	62511	ROLL PIN		4		
6	4304840	KEY	19673	2		
7	4300065	1ST GEAR-CNTRSHFT		2		
8	20482	2ND GEAR-CNTRSHFT	19615	2		
9	4305657	3RD GEAR-CNTRSHFT	19240 ,19243 ,20392 ,4302087,21020	2		
10	15953	PTO GEAR - LOWER		1		
10	20840	PTO GEAR - UPPER		1		
11	4305661	DRIVE GEAR-CNTRSHFT	19631 ,19633 ,20481 ,4302233,20459	2		

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
12	19198	SNAP RING		2		
13	81022	BALL BEARING	5566509	2		K-1996,K-2049
14	K-2966	RETAINER KIT	19668 ,A - 4729	2	ROLL PIN NO LONGER REQUIRED	
15	X-7-1005	CAPSCREW		2	5/8"-18X1-3/4"	



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"	

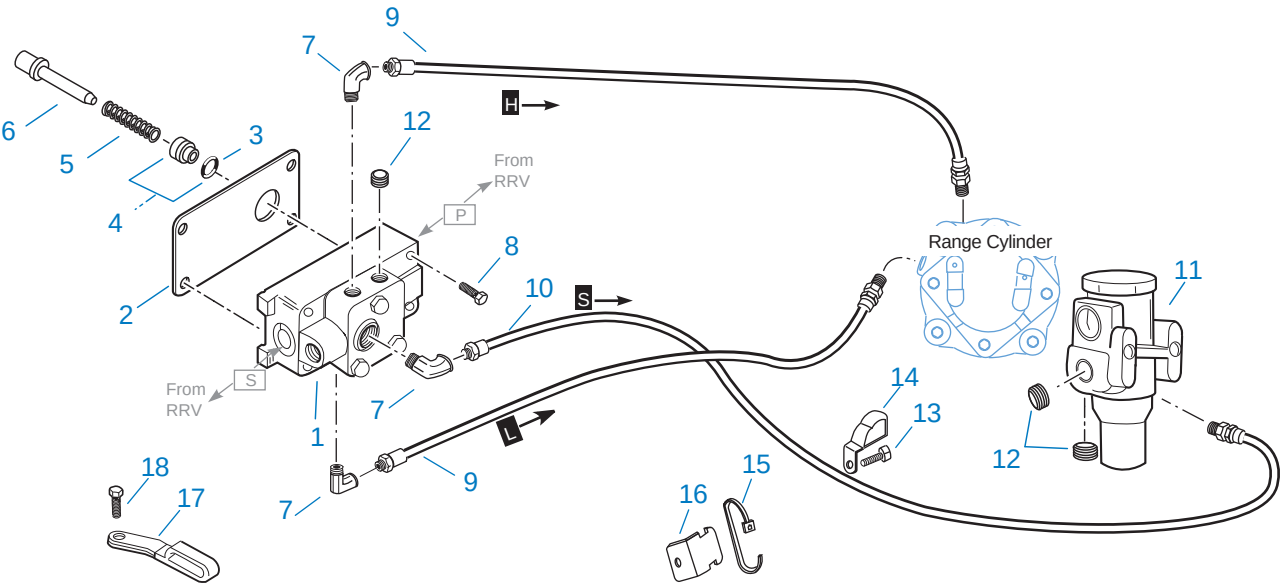


10111-1/92 19470 HC

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-2061,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	55508	HOSE ASSY		2	30"	
10	55518	HOSE ASSY		1	32"	
11	A-4740	FILTER/REGULATOR	19600	1		
12	X-12-208	PIPE PLUG		3	1/8" NPT	
13	X-8L-600	CAPSCREW		1	3/8"-16X1"	
14	21427	HOSE CLAMP		1		
15	21425	STRAP		1		
16	21426	BRACKET		1		

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
17	21428	HOSE CLAMP		1		
18	X-8L-604	CAPSCREW		1	3/8"-16X1-1/4"	

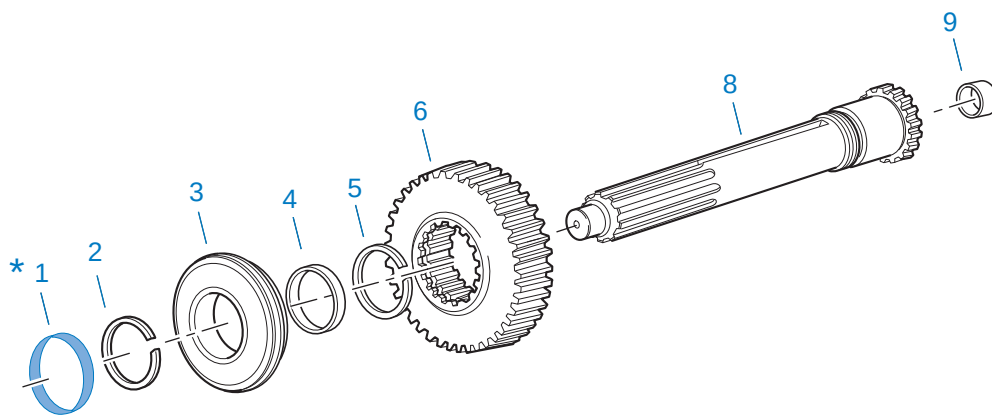


10110-1/92 A-5000 HC

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-2061,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	55508	HOSE ASSY		2	30"	
10	55518	HOSE ASSY		1	32"	
11	A-4740	FILTER/REGULATOR	19600	1		
12	X-12-208	PIPE PLUG		3	1/8" NPT	
13	X-8L-600	CAPSCREW		1	3/8"-16X1"	
14	21427	HOSE CLAMP		1		
15	21425	STRAP		1		
16	21426	BRACKET		1		
17	21428	HOSE CLAMP		1		

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
18	X-8L-604	CAPSCREW		1	3/8"-16X1-1/4"	



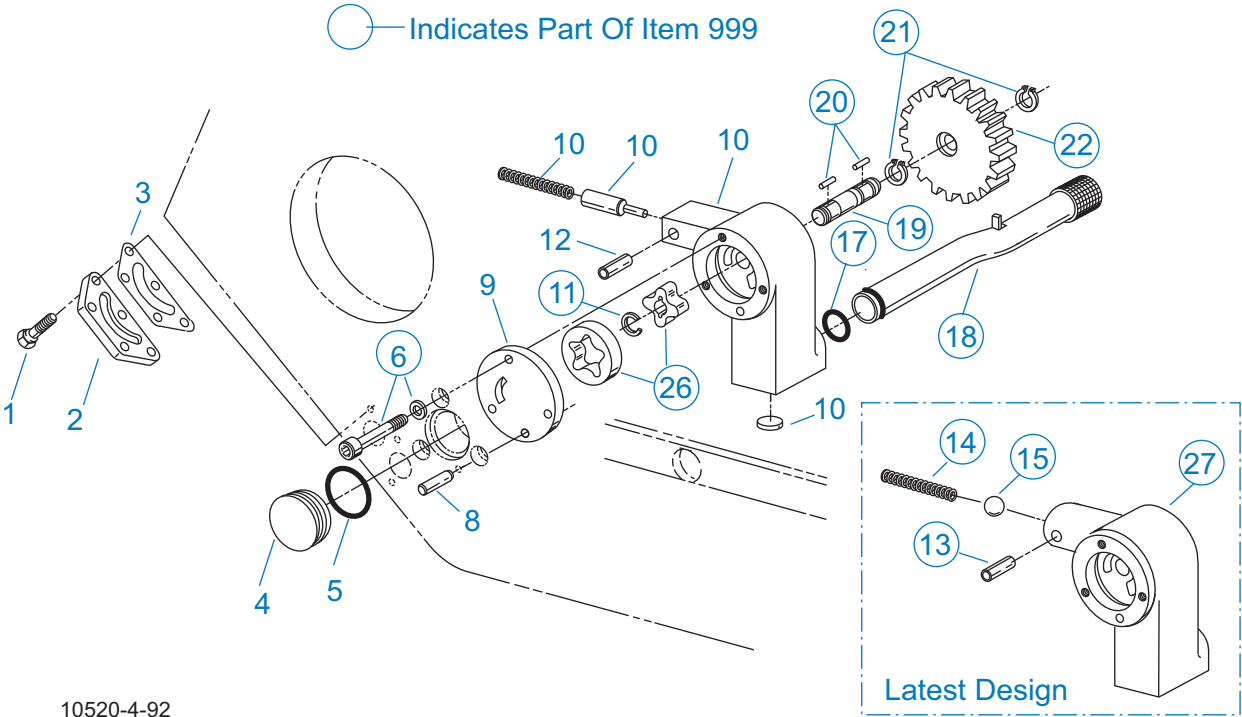
* For Shipping Only -- Do Not Replace

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10370-1/92 IS

INPUT SHAFT & DRIVE GEAR

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	23559	SEAL		1	NOT SOLD FOR SERVICE	
2	16980	SNAP RING		1		K-1996,K-2049,K-2284,K-2410,K-2468,K-2763,K-4125
3	81504	BEARING		1		K-1996,K-2049,K-2284,K-2468,K-2763,K-4125
4	16463	SPACER		1		
5	14750	SNAP RING		1		K-1996,K-2049,K-2284,K-2410,K-2468,K-2763,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-1996,K-2468,K-2763,K-4125
8	S-1660	INPUT SHAFT	20536 ,23567	1	2" PUSH - USE W/FBC 20549	
9	16566	BUSHING		1		K-2049,K-2284,S-1659,S-1660

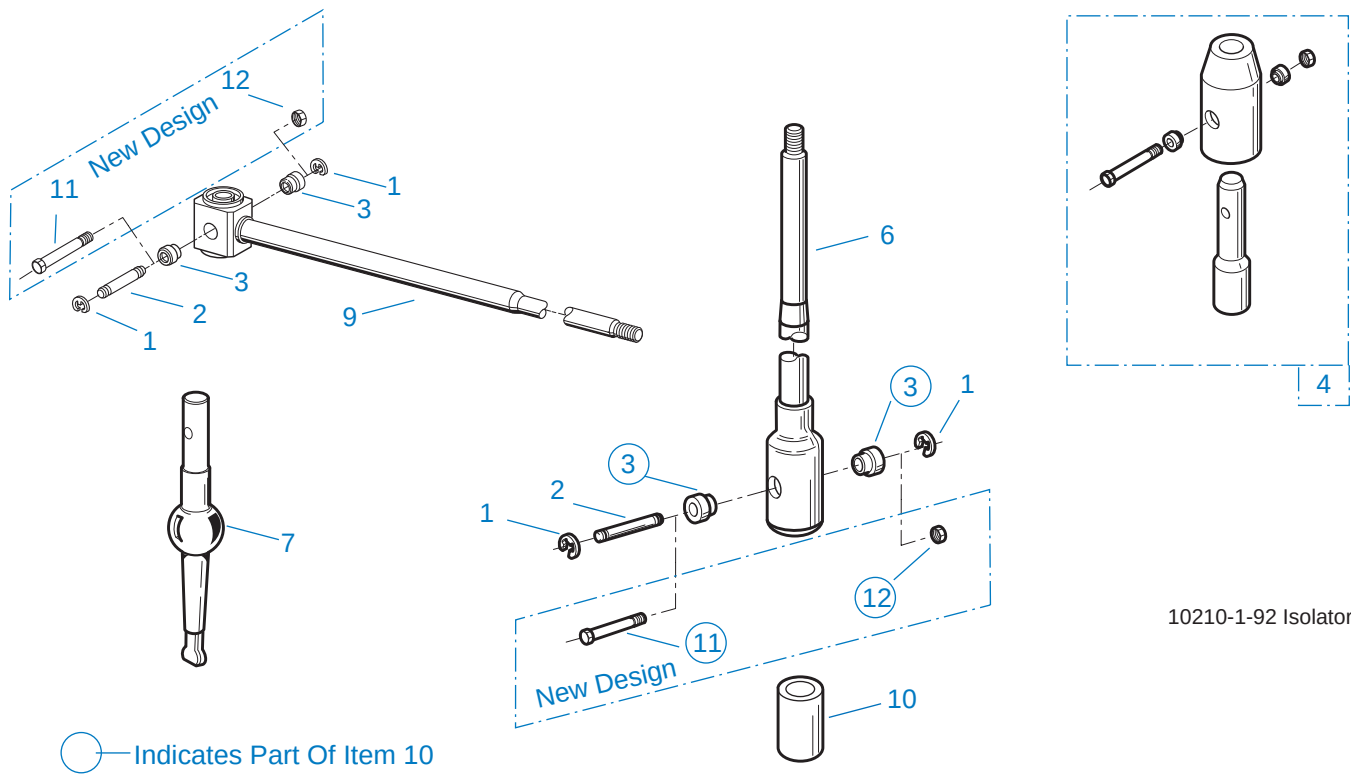


10520-4-92

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		K-2061,K-2402
3	20514	GASKET		1		
4	20823	PLUG		1		
5	14765	-O- RING		1		K-1431,K-1450
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	4303107	RETAINER	20510	1		S-1545,S-1826
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		

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
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		
26	20507	ELEMENT		1		
27	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		
999	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		



ISOLATORS

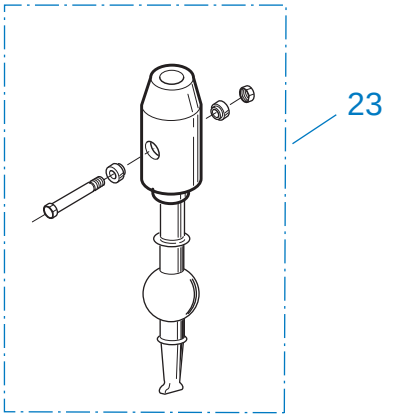
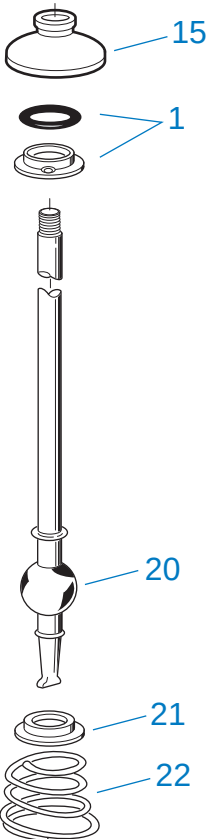
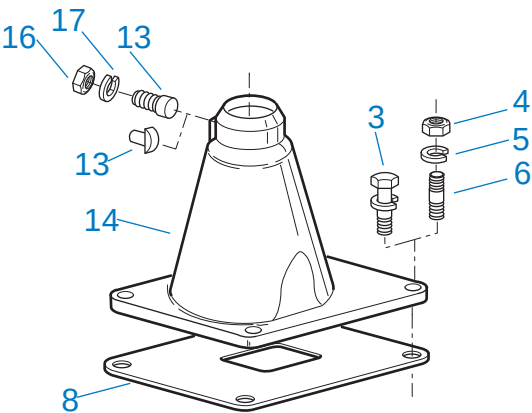
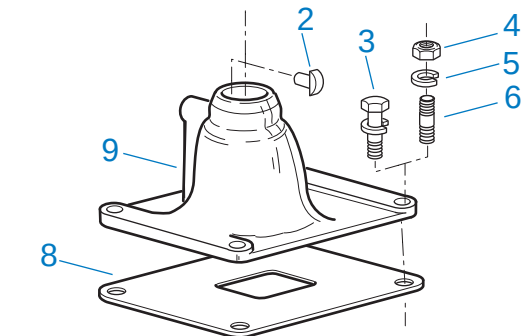
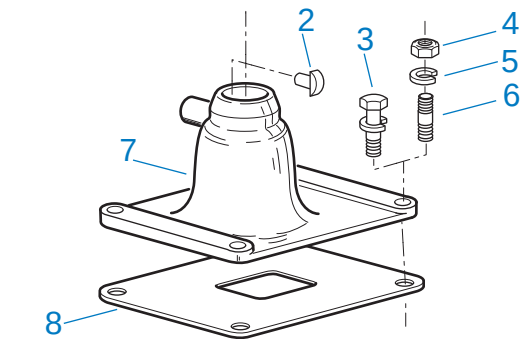
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	19124	-E- RING		2		
2	K-3467	PIN REPLACEMENT KIT	21245	1		
3	21246	BUSHING		2		K-2003,K-2428,K-2429,K-2978,K-3399,S-2129,S-2130,S-2519
4	S-1794	ISOLATOR ASSY		1		
6	21247	LEVER		1	STRAIGHT 18.67"	
7	21235	STUB LEVER		1	LOW 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		K-2003
12	X-9-503	NUT		1		K-2003

KITS & ASSEMBLIES

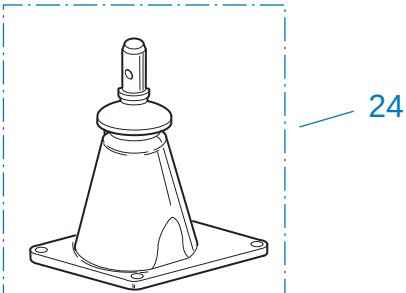
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
	K-1431	RANGE CYL-KIT		1		
	K-1450	-O- RING KIT-RANGE		1		K-1996,K-2049
	K-1698	-O- RING/ELEMENT KIT		1	FOR FILTER REGULATOR	
	K-1956	COOLER INSTLN KIT		1		
	K-1969	SLEEVE KIT	14362 ,19460 ,21446	1	FOR SLAVE VALVES	
	K-1996	BASIC OVERHAUL KIT		1	RT-12709 SERIES	
	K-2003	PIN & BUSHING KIT		1		
	K-2049	BASIC REBUILD KIT		1	RT-12709 SERIES	
	K-2061	GASKET KIT		1		K-1996,K-2049,K-2284,K-2763
	K-2262	OIL SEAL W/SLINGER	19109 20807 20808	1	"FOR MECHANICAL COVER"	K-1996,K-2049,K-2284,K-2763
	K-2284	BASIC REBUILD KIT		1		
	K-2394	AIR SYSTEMS TOOL KIT		1		
	K-2410	SMALL PARTS KIT		1		
	K-2468	CLUTCH INSTALLATION KIT		1	FOR USE WITH S-1659 INPUT SHAFT ASSY AND 81504 INPUT SHAFT BEARING	
	K-2763	BASIC OVERHAUL KIT		1		
	K-2805	SHIM KIT	21452 K - 2106	1		K-1996,K-2049,K-2284,K-2763,S-1778
	K-2934	COUNTERSHAFT REPL KIT	19549	1		
	K-2958	COUNTERSHAFT REPL KIT	4300032 ,4300243	1		
	K-2966	RETAINER KIT	19668 ,A - 4729	1		
	K-2977	SHIFT LEVER HSG KIT	4301167 ,4304907 ,A - 6040	1	MID TOWER	
	K-2978	LEVER REPLACEMENT KIT		1	MID TOWER	
	K-3159	WASHER UPDATE KIT		1	RT/F-11709H	
	K-3166	WASHER UPDATE KIT		1	RTX/F-12709H	
	K-3209	IDLER SHAFT REPL KIT	16405 ,4302981 ,4305513	1		
	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529	1		

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
			,4304572 A - 6963 ,A - 7173			
	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-1440	SHIFT BAR HSG (STD)	20211 ,22955	1	(STD) HOUSING ONLY	
	S-1441	SHIFT BAR HSG (F)	20213 ,22956	1	(F) HOUSING ONLY	
	S-1445	SHIFT BAR HSG (X)	18920 ,20135 ,20214 ,20215 ,20487 21135 ,4302452	1	HOUSING ONLY (X)	
	S-1446	SHIFT BAR HSG (XF)	20217 ,21136	1	(XF) HOUSING ONLY	
	S-1527	SHIFT BAR HSG ASSY (X)	20215 ,21135 ,4302452	1	(X) COMPLETE	
	S-1528	SHIFT BAR HSG ASSY (XF)	20217 ,21136	1	(XF) COMPLETE	
	S-1529	SHIFT BAR HSG ASSY (F)	20213 ,22956	1	(F) COMPLETE	
	S-1531	SHIFT BAR HSG ASSY (STD)	20211 ,22955	1	(STD) COMPLETE	
	S-1545	CASE ASSY	21528	1	FOR USE W/INTEGRAL PUMP FOR ALL MODELS EXCEPT RTX-12709H	
	S-1549	CASE ASSY	21318	1	ALL EXCEPT-RTX/RTXF-12709H	
	S-1659	INPUT SHAFT	20535 23566 4302661	1	2" PULL - USE W/FBC 20550	K-1996,K-2468,K-2763,K-4125
	S-1660	INPUT SHAFT	20536 ,23567	1	2" PUSH	
	S-1736	CASE ASSY	23654	1	RTX/RTXF-12709H ONLY	
	S-1778	RANGE SECTION ASSY		1	RTX-12709H	
	S-1826	CASE ASSY	23650	1	FOR USE W/INTEGRAL PUMP - RTX-12709H ONLY	
	S-2106	REAR BRG COVER ASSY	22732 ,23368 ,4302025 ,S - 1552	1		
	S-2129	SHIFT LEVER HSG ASSY		1	LOW TOWER	

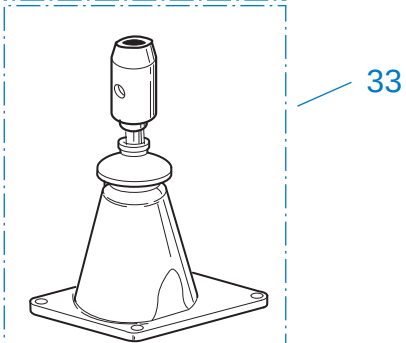
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
	S-2130	SHIFT LEVER HSG ASSY	S - 2053	1	HIGH TOWER	
	S-2519	SHIFT LEVER HSG ASSY	S - 2919	1	MID TOWER	
	S-2540	ROADRANGER VALVE ASSY	A - 5037	1	RT - W/SHIFT DIAGRAM MEDALLION	
	S-2541	ROADRANGER VALVE ASSY	A - 5040	1	RTO - W/SHIFT DIAGRAM MEDALLION	
	S-2688	MAINSHAFT ASSY	4303404 4303913	1		K-3159,K-3166



K-2428 - Low
K-2978 - Mid
K-2429 - High



S-1677 - Low
S-1967 - Mid
S-1579 - High



S-2129 - Low
S-2519 - Mid
S-2130 - High

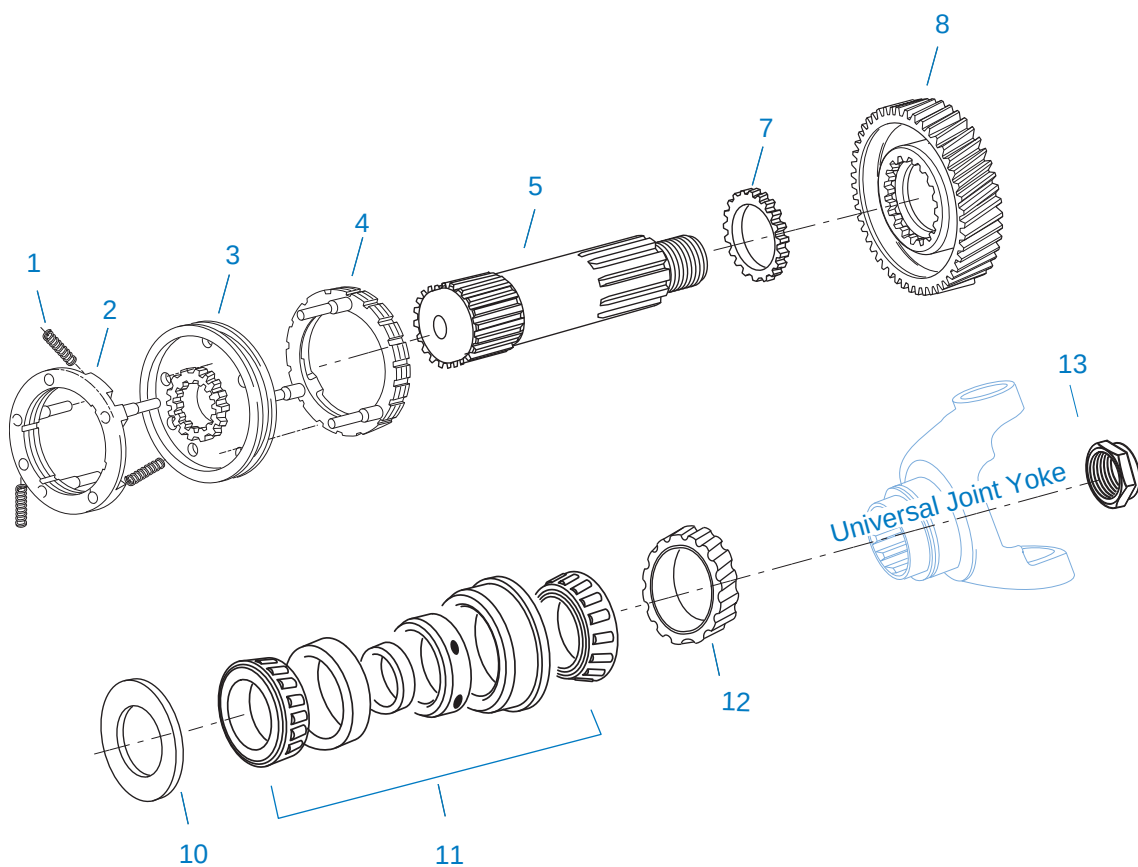
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LEVERS/HOUSINGS

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

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
3	X-8C-604	CAPSCREW		4	3/8"-16X1-1/4"	S-1445,S-1446,S-1527,S-1528,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-2061,K-2428,K-2429,K-2973,K-2977,K-2978,S-1527,S-1528,S-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	

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
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	

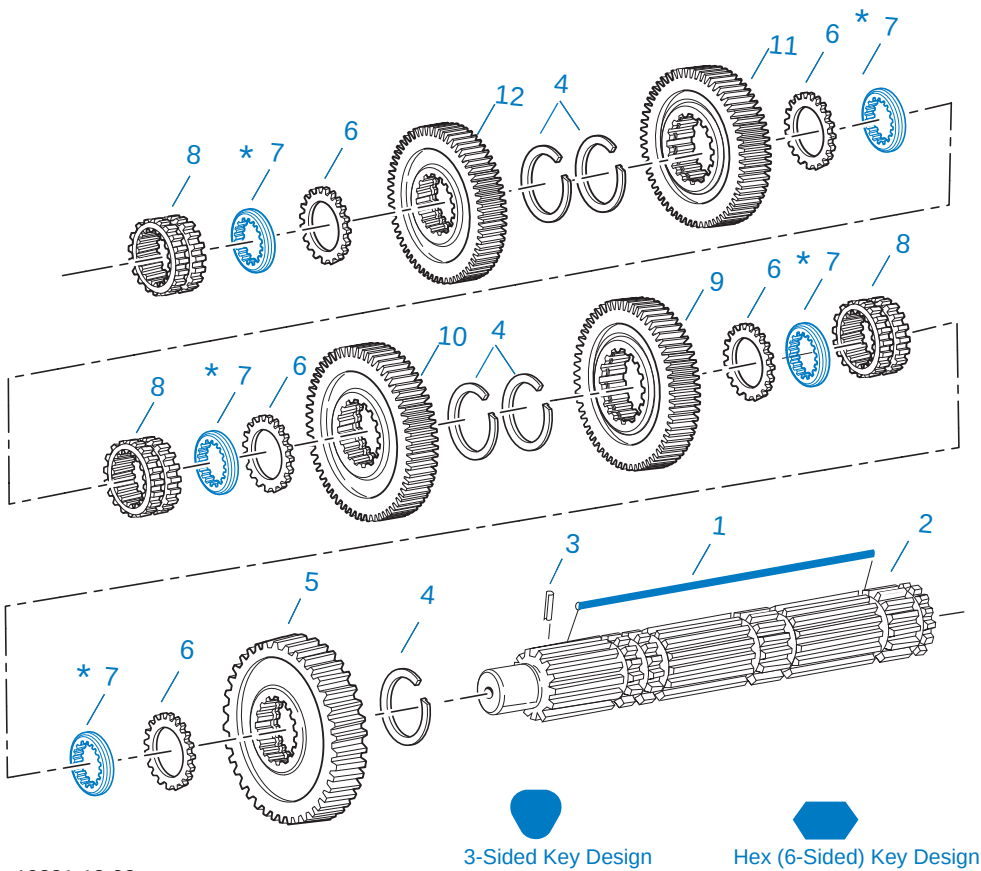


10420-1/92 Aux MS

MAINSHAFT & SYNCHRO(AUX)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	14897	SPRING		3		K-1996,K-2049,K-2284,K-2410,K-2763,K-3492,K-3494
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	23022	AUXILIARY MAINSHAFT		1		
7	22899	WASHER		1		K-2410
8	23023	REDUCTION GEAR-MAINSHAFT	22897	1		
10	22898	SPACER		1		K-2410
11	21355-BOX	BEARING	21355	1		K-1996,K-2049,K-2284,K-2763

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
12	20192	ROTOR		1		
13	22254	NUT	11956	1		S-1778



* 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)

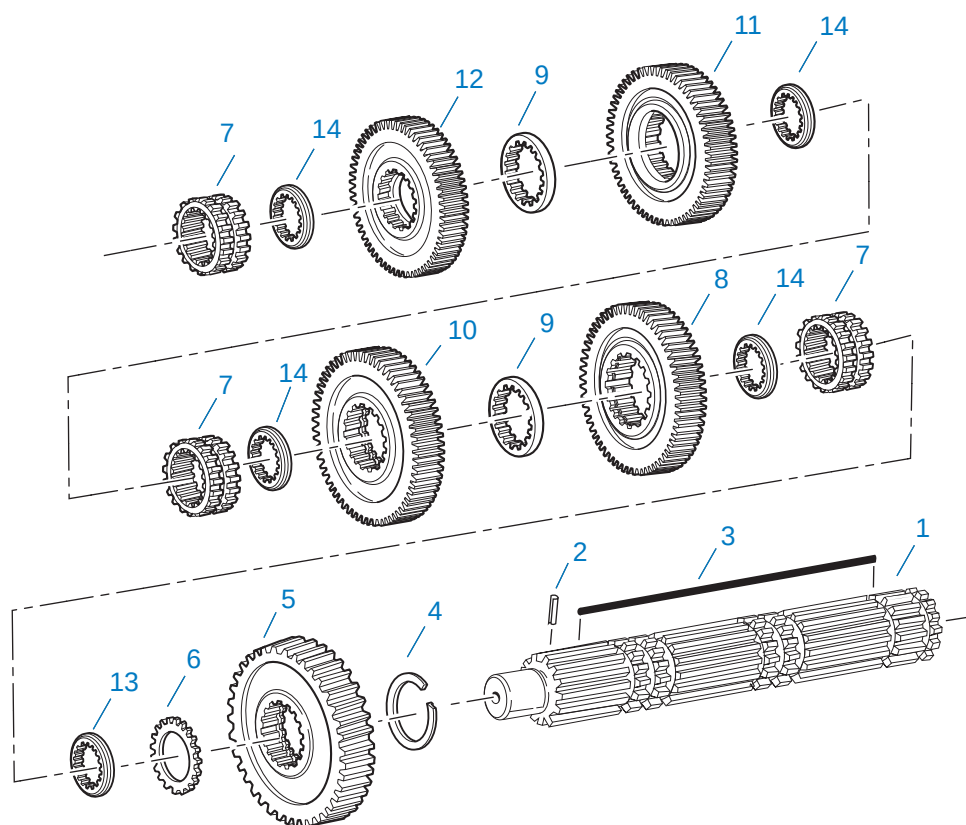
MAINSHAFT ASSY

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	4304614	3-SIDED KEY	4300890	1		K-2366,K-2410,K-3159,K-3166
1	K-2366	KEY & WASHER KIT	21326 ,4300763 ,4304614	1	CONTAINS 3-SIDED KEY	
2	S-2688	MAINSHAFT ASSY	4303404 4303913	1		K-3159,K-3166
3	62504	ROLL PIN		1		S-2688
4	14750	SNAP RING		5		K-1996,K-2049,K-2284,K-2410,K-2468,K-2763,K-4125
5	16756	REVERSE GEAR-MAINSHAFT	22408	1		
6	14749	SPACER		5		K-2410

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
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-2410
7	4300383	WASHER .254-GREEN		5	OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY	K-2366,K-2410
7	4300384	WASHER .259-ORANGE		5	OPTIONAL 4300382-4300387 OR 4300830 USE ANY 5 WASHERS. USE WITH 3-SIDED KEY	K-2366,K-2410
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-2410
8	4306648	SLIDING CLUTCH	16118	3		K-1996
9	16754	LOW GEAR-MAINSHAFT		1		
10	4300064	1ST GEAR-MAINSHAFT		1		
11	20390	2ND GEAR-MAINSHAFT	19614	1		
12	20391	3RD GEAR-MAINSHAFT	19242	1		

MISCELLANEOUS

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
	20398	SHIFT DIAGRAM LABEL	19675	1	RT/RTF/RTX/RTXF-12709H, RT/RTX-12709A & RTX-12709B	
	20399	SHIFT DIAGRAM LABEL	19677 ,19679	1	RTO-12709A & B	
	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-1996,K-2763
	71206	SILICONE LUBE		1	4 CC (SINGLE APPLICATION SIZE)	K-1431,K-1450,K-2428,K-2429,K-2978

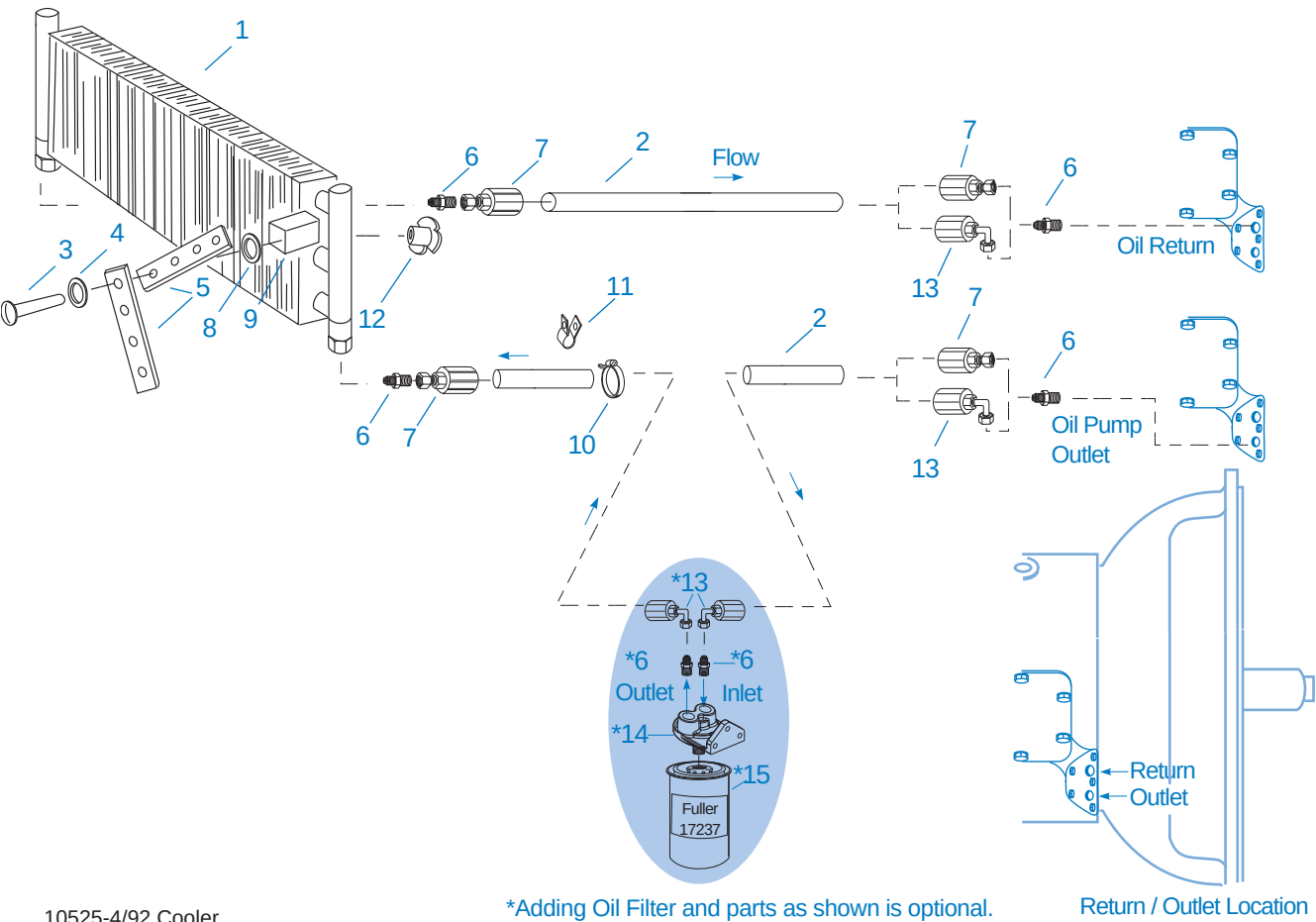


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NON-SELECTIVE M/S ASSY

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	S-2688	MAINSHAFT ASSY	4303404 4303913	1		K-3159,K-3166
2	62504	ROLL PIN		1		S-2688
3	4304614	3-SIDED KEY	4300890	1		K-2366,K-2410,K-3159,K-3166
4	14750	SNAP RING		1		K-1996,K-2049,K-2284,K-2410,K-2468,K-2763,K-4125
5	16756	REVERSE GEAR-MAINSHAFT	22408	1		
6	14749	SPACER		1		K-2410
7	16118	SLIDING CLUTCH		3		
8	4303409	LO GEAR-MAINSHAFT	4303407	1		K-3159
9	4303603	WASHER	4302397	2		K-3159,K-3166
10	4303493	1ST GEAR-MAINSHAFT		1		K-3159
11	4302384	2ND GEAR-MAINSHAFT	4302385	1		K-3159

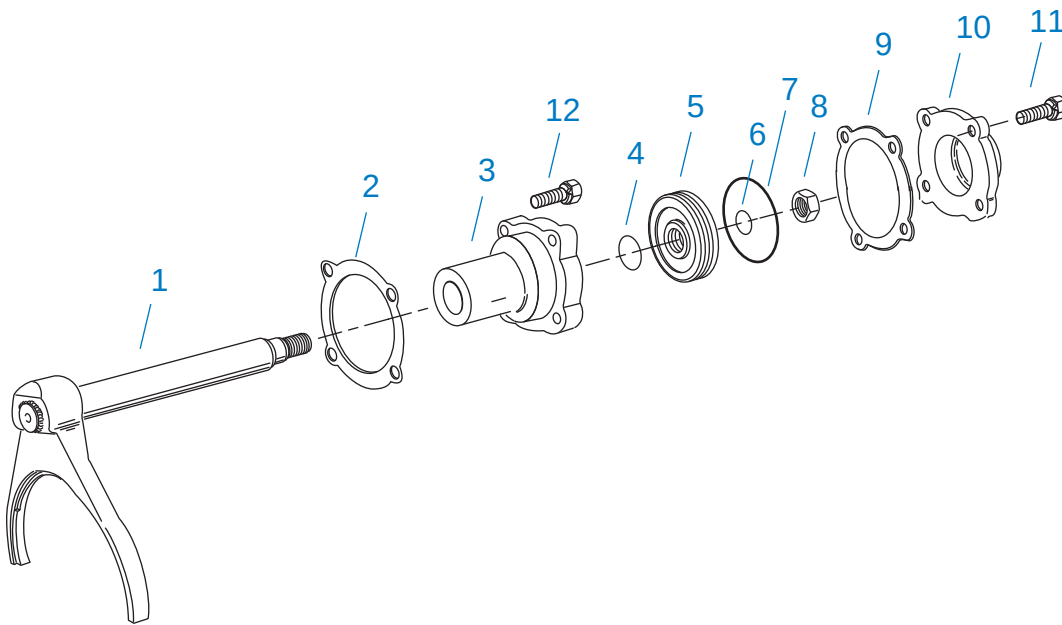
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
12	4303476	3RD GEAR-MAINSHAFT	4303452	1		K-3159
13	4300830	WASHER .244-BLUE		1		K-2366,K-2410
14	4302398	WASHER		4		K-3159,K-3166



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

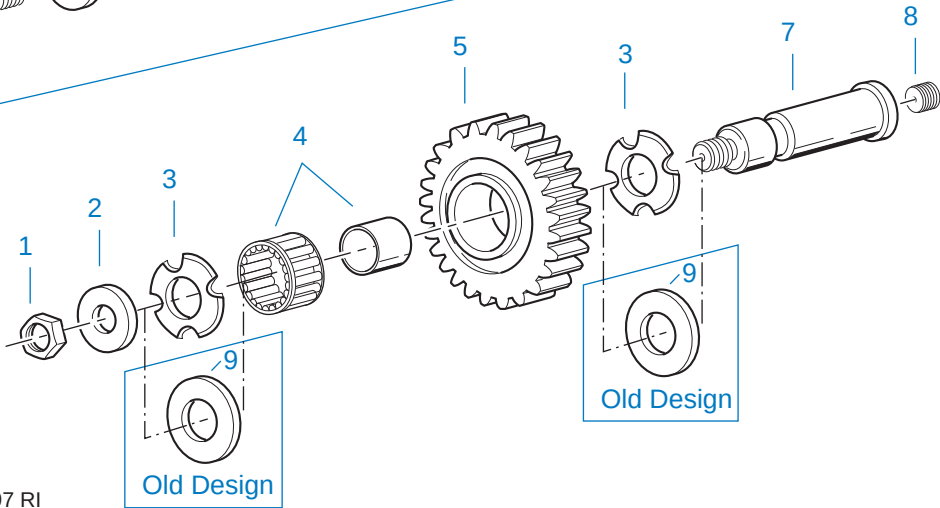
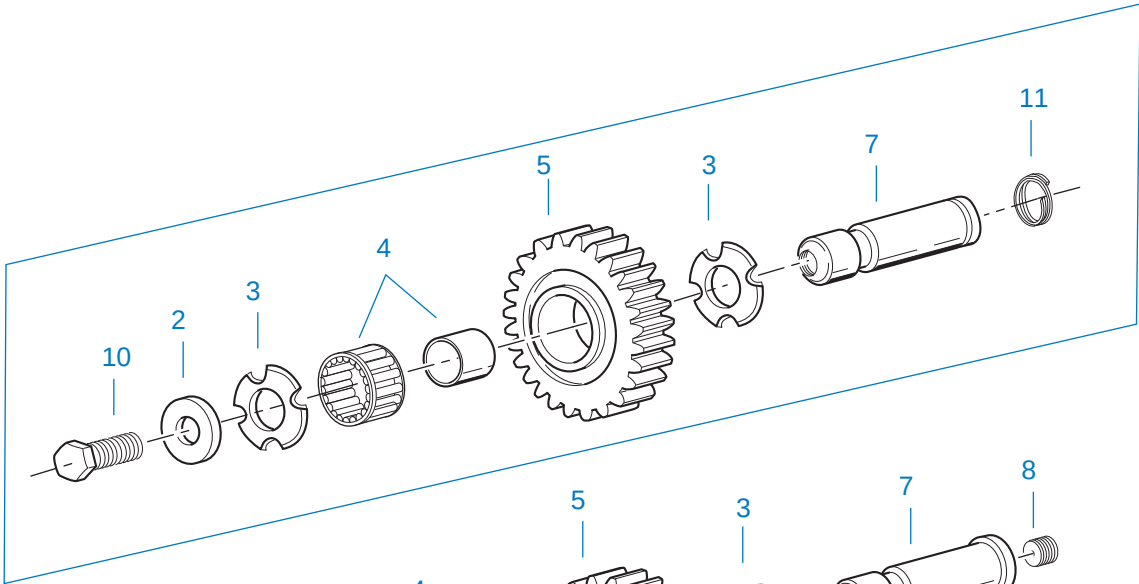
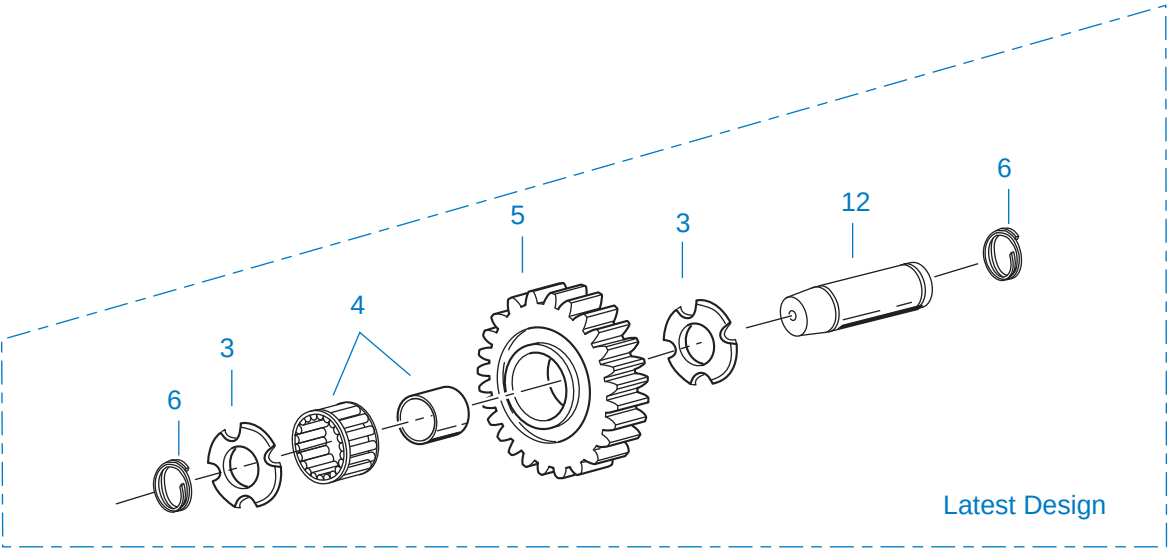
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
13	19422	ELBOW		4		K-1956
14	S-1404	OIL FILTER	17238	1		
15	17237	FILTER ELEMENT		1		S-1404



10461-2/92 Rng Cyl

RANGE CYLINDER

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	A-5474	SHIFT YOKE ASSY		1		
2	14347	GASKET		1		K-1431,K-2061
3	16778	AUXILIARY CYLINDER		1		K-1431
4	14765	-O- RING		1		K-1431,K-1450
5	14341	PISTON	23353	1		K-1431
6	14345	-O- RING		1		K-1431,K-1450
7	14344	-O- RING		1		K-1431,K-1450
8	X-1-1010	NUT		1	5/8"-18	
9	14349	GASKET		1		K-1431,K-1450,K-2061
10	19690	CYLINDER COVER		1		
11	X-8L-604	CAPSCREW		4	3/8" - 16X1-1/4"	
12	X-8L-600	CAPSCREW		4	3/8"-16X1"	

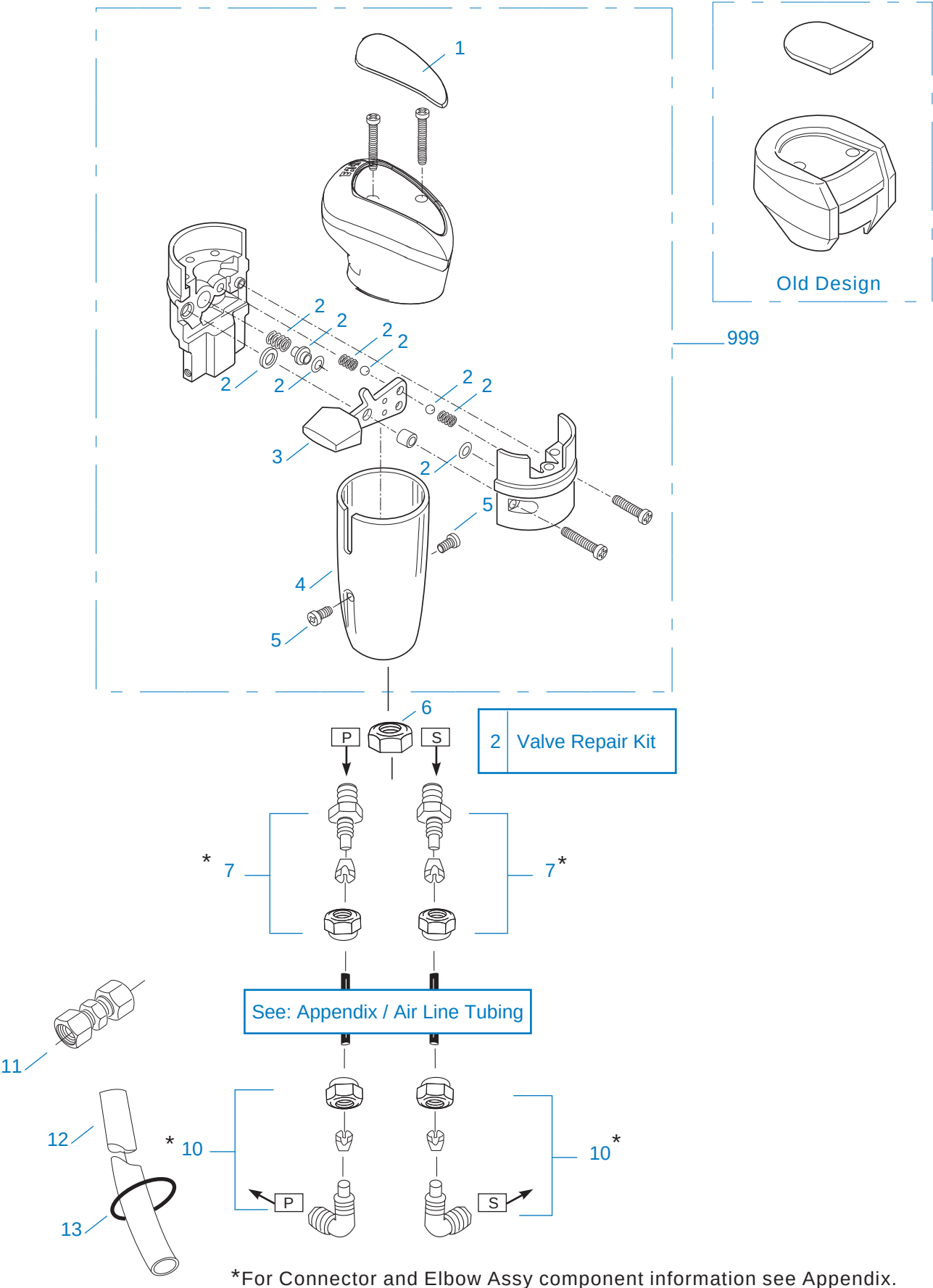


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REVERSE IDLER

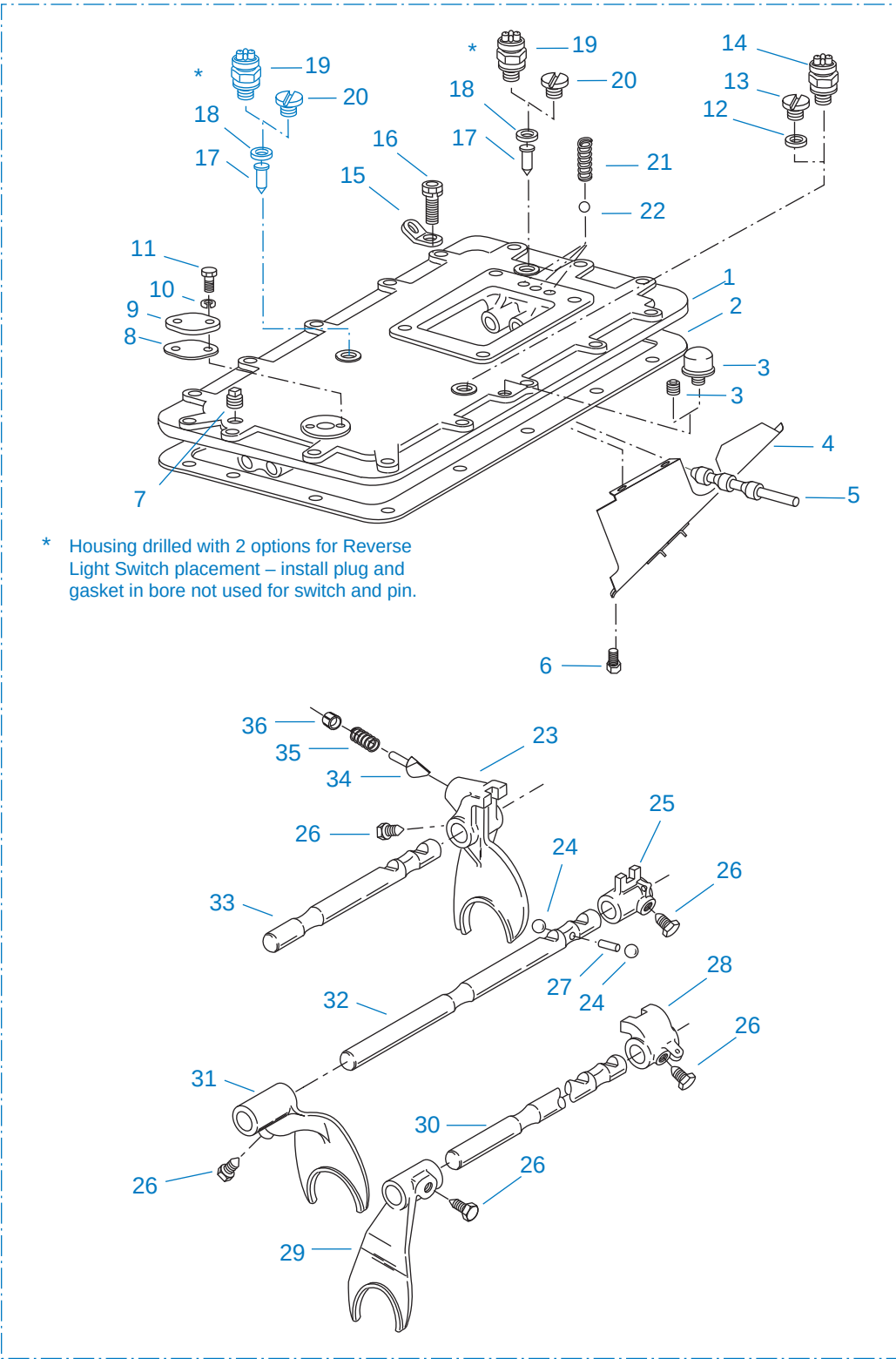
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	X-1-1008	NUT		2	5/8"-18	
2	14283	WASHER		2		

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
3	4302982	WASHER	14282	4		K-3209,S-1545,S-1549,S-1736,S-1826
4	14287	BEARING	4305020	2		K-1996,K-2049,K-2284,K-2763
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		
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



ROADRANGER VALVE

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	20107	MEDALLION, LOGO		1	(OLD DESIGN) FULLER LOGO ONLY	
1	5586100	MEDALLION, LOGO		1	(LATEST DESIGN) FULLER LOGO ONLY	A-6909
1	5586104	SHIFT DIAGRAM MEDALLION		1	RT	S-2540
1	5586105	SHIFT DIAGRAM MEDALLION		1	RTO	S-2541
2	K-1921	MASTER VALVE REPAIR KIT		1	FOR A-6909 & A-5010 VALVES	
3	20495	LEVER		1		A-6909
4	20112	COVER		1		A-6909
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	2	1/8"TUBE-1/16"NPTF	
7	84003	CONNECTOR ASSY	82503	2	5/32"TUBE-1/16"NPTF	
7	84005	CONNECTOR ASSY		2	"PUSH-TO-CONNECT" 5/32"TUBE-1/16"NPTF	
10	85001	ELBOW ASSY	84501	2	5/32"TUBE-1/8"NPTF	K-2763
10	85002	ELBOW ASSY	84502	2	1/8"TUBE-1/8"NPTF	K-1996
10	85003	ELBOW ASSY		2	"PUSH-TO-CONNECT" 5/32"TUBE-1/8"NPTF	
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	80120	SHEATHING (50 FT ROLL)		1	5/32" - BLACK 50'	
13	13571	-O- RING CLAMP		1		
999	A-6909	ROADRANGER VALVE ASSY	A - 5010 ,A - 5310	1	STANDARD-W/LOGO	
999	S-2540	ROADRANGER VALVE ASSY	A - 5037	1	RT - W/SHIFT DIAGRAM MEDALLION	
999	S-2541	ROADRANGER VALVE ASSY	A - 5040	1	RTO - W/SHIFT DIAGRAM MEDALLION	



999

10220-1/92 Standard

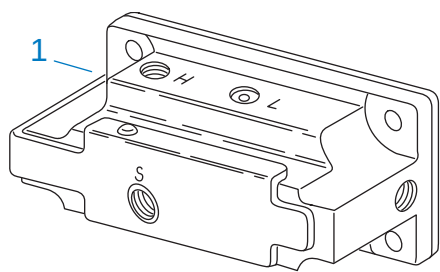
SHIFT BAR HOUSING (STD)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
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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-2061,S-1527,S-1528,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-1527,S-1528,S-1529,S-1531
5	20332	AIR VALVE SHAFT	17177	1		S-1527,S-1528,S-1529,S-1531
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		K-2061,S-1440,S-1441,S-1445,S-1446,S-1527,S-1528,S-1529,S-1531
9	20199	PLATE	18724	1		S-1440,S-1441,S-1445,S-1446,S-1527,S-1528,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-1441,S-1445,S-1446,S-1527,S-1528,S-1529,S-1531
13	4303655	PLUG	17178	1		S-1440,S-1441,S-1445,S-1446,S-1527,S-1528,S-1529,S-1531
14	22941	NEUTRAL LIGHT SWITCH	12639	1	SWITCH NORMALLY CLOSED	
15	20815	LIFTING EYE	17105	2		
16	X-8L-602	CAPSCREW		2	3/8"-16X1-1/2"	
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-1441,S-1445,S-1446,S-1527,S-1528,S-1529,S-1531
18	15900	GASKET		1		S-1440,S-1441,S-1445,S-1446,S-1527,S-1528,S-1529,S-1531
19	22940	REVERSE LIGHT	16830	1	SWITCH NORMALLY OPEN	

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
		SWITCH				
20	4303656	PLUG	15917	1		S-1440,S-1441,S-1445,S-1446,S-1527,S-1528,S-1529,S-1531
21	15918	SPRING		3		K-1996,K-2410,K-2763,S-1527,S-1528,S-1529,S-1531
22	X-14-800	STEEL BALL		3	1/2"	
23	16131	SHIFT YOKE		1	REVERSE/LO	S-1219,S-1527,S-1531
24	X-14-1200	STEEL BALL		2	3/4"	
25	14658	SHIFT BLOCK		1	1ST/2ND	S-1527,S-1531
26	3220	LOCKSCREW		5		S-1527,S-1528,S-1529,S-1531
27	1634	INTERLOCK PIN		1		K-2410,S-1527,S-1528,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/LO	S-1531
34	10019	PLUNGER		1		S-1219,S-1527,S-1528,S-1529,S-1531
35	6392	SPRING		1		K-2410,S-1219,S-1527,S-1528,S-1529,S-1531
36	8968	PLUG		1		S-1219,S-1527,S-1528,S-1529,S-1531
999	S-1531	SHIFT BAR HSG ASSY (STD)	20211 ,22955	1	COMPLETE	

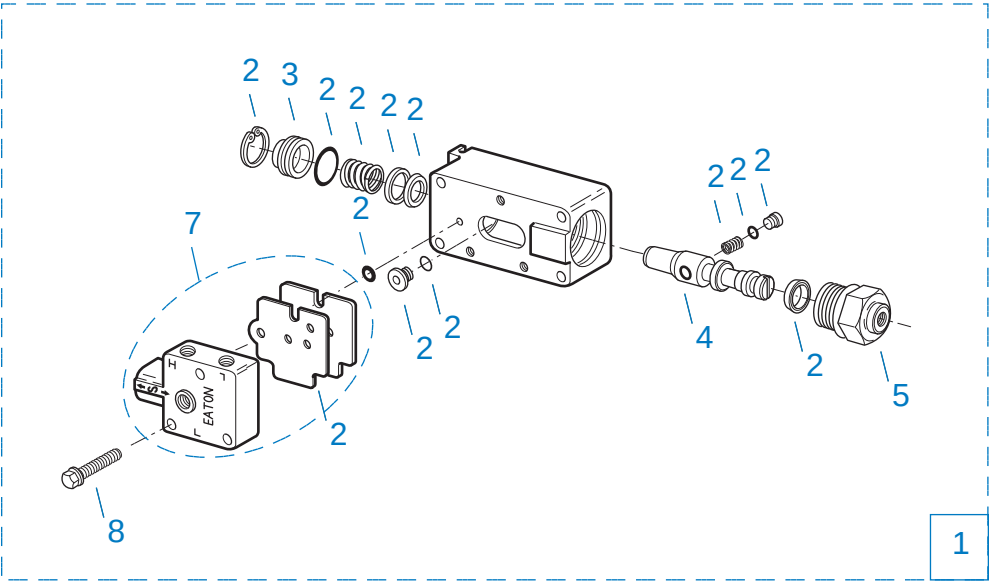
Group: SLAVE VALVE - 19470



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		



10120-10-97 A-5000 SV

2 Repair Kit

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"	

