



Roadranger®

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Illustrated Parts List

RTLO-18718B-T2
July 2011

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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).

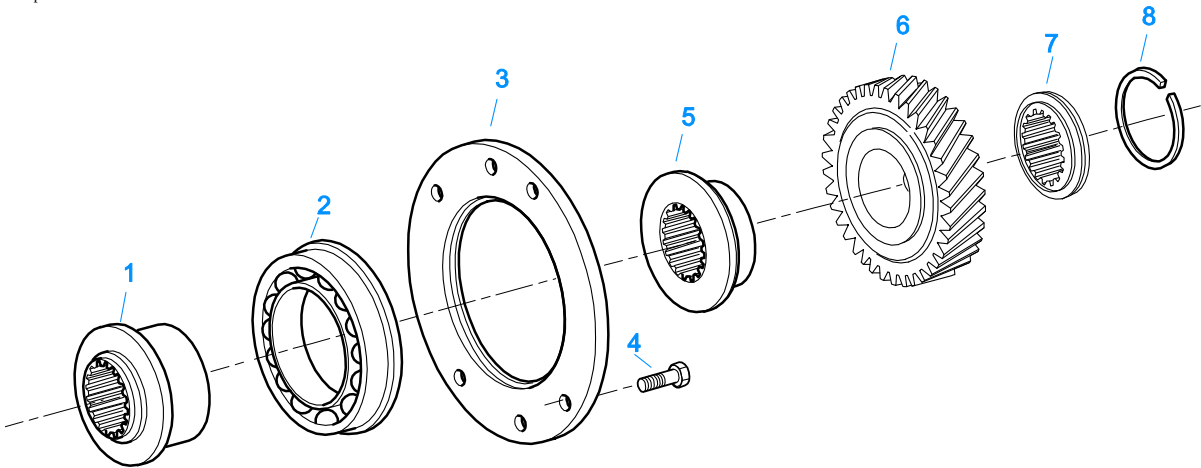
Illustrations

- 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

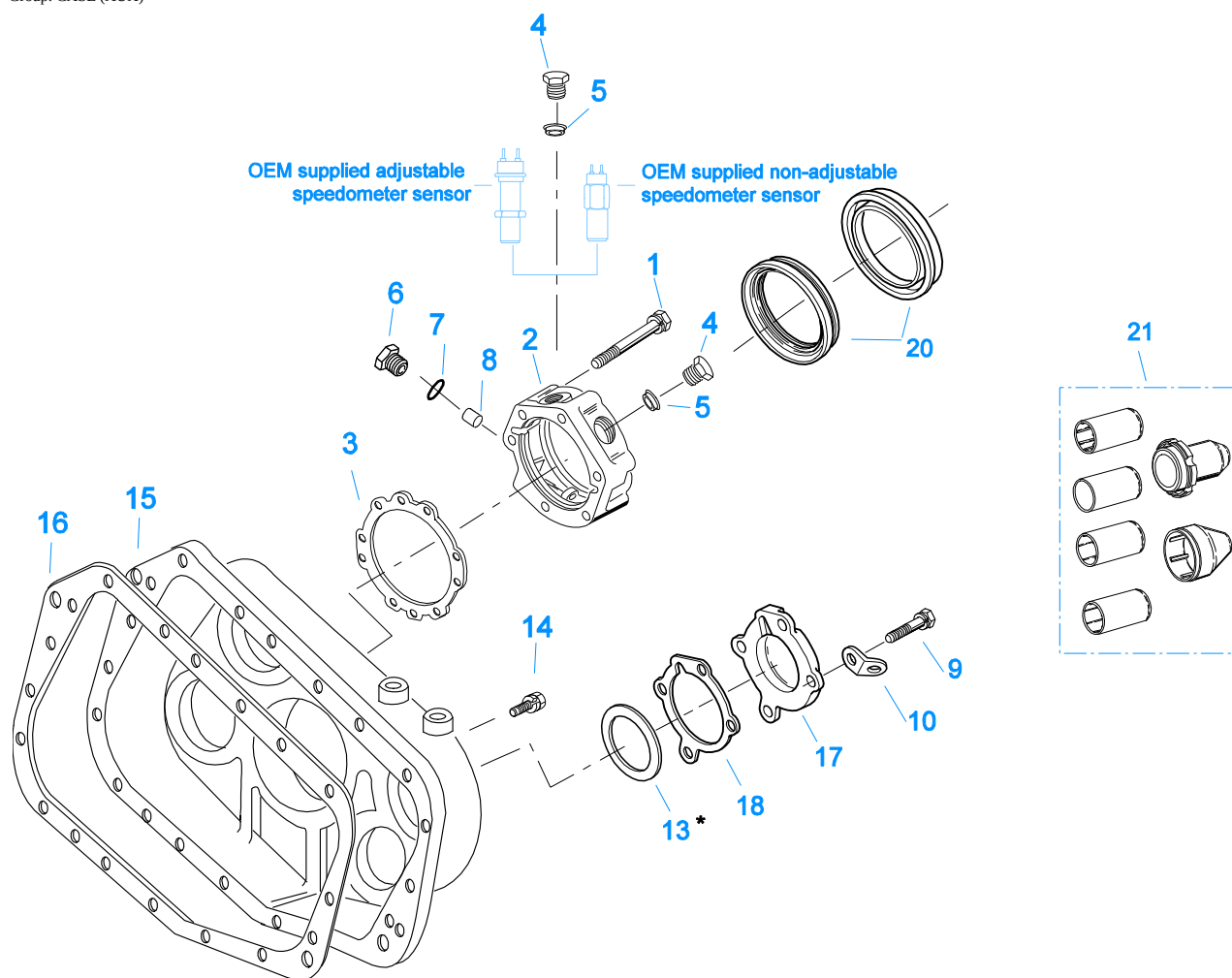
- **Item Number** - corresponding with numbers on illustrations for part identification.
- **Current Part** - identifies part as it is available for service.
- **Description** - specifies part name or description.
- **Replaced Part** - quantity quantity required for assembly.
- **Quantity** - defines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



10484A-5-10

AUXILIARY DRIVE GEAR

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	4303673	SPACER	4302046	1		
2	5566508-BOX	BEARING	5566503,5566508	1		K-2865,K-2866
3	4300894	RETAINER		1		
4	X-8-645	CAPSCREW	X 8 612	6	3/8"-16X1"	
5	4300911	SPACER		1		K-2808
6	K-2808	REPL KIT-DRIVE GEAR	4300932 ,4300938	1		
7	4303185	WASHER	4300901	1		K-2808
8	4301254	SNAP RING		1		K-2808,K-2865,K-2866

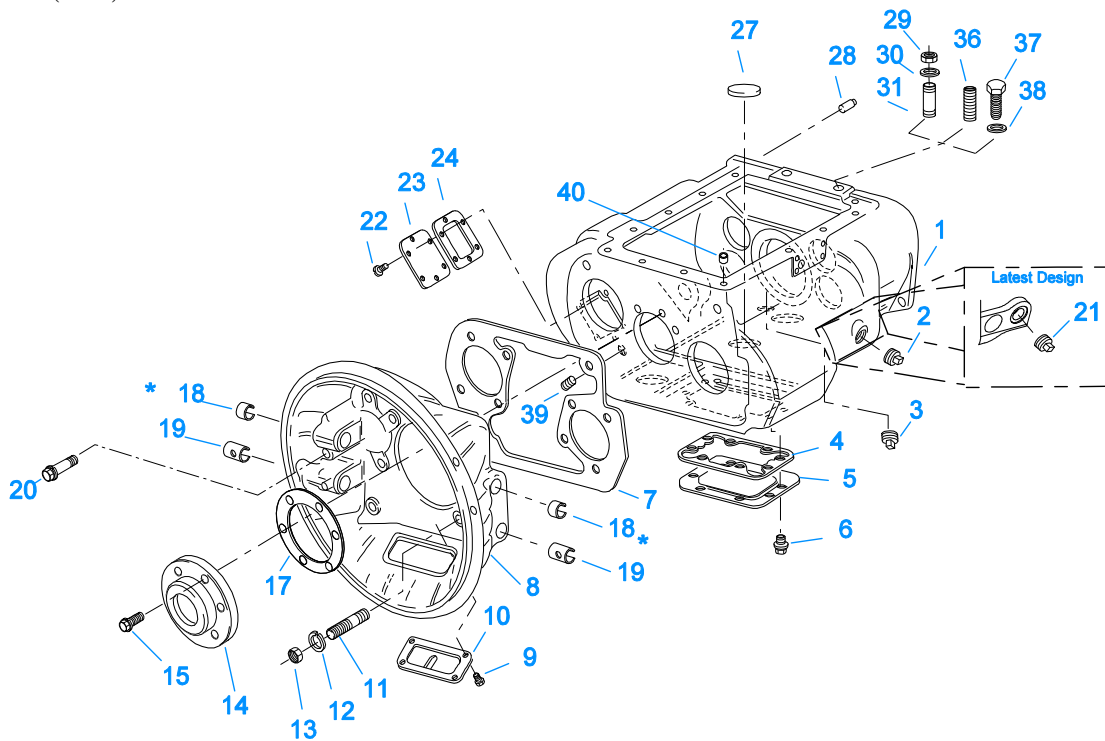


* See Service Manual for Proper Shimming Procedure

10405A-12-02

CASE (AUX)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	X-8L-611	CAPSCREW		6	3/8"-16X3-1/4"	
2	S-2107	REAR BRG COVER ASSY	4300892	1		
3	21364	GASKET		1		K-2199,K-2262,S-2107
4	20224	PLUG-MAGNETIC		2		S-2107
5	4301954	SENSOR SEAL		2		S-2107
6	20226	PLUG-MECHANICAL	2237	1		S-2107
7	14142	-O- RING		1		S-2107
8	7992	BUSHING		1		S-2107
9	X-8L-604	CAPSCREW		8	3/8"-16X1-1/4"	
10	20815	LIFTING EYE	17105	2		
13	K-2805	SHIM KIT	21452 K - 2106	1		K-2865,K-2866
14	X-8L-602	CAPSCREW		17	3/8"-16X1-1/2"	
14	X-8L-614	CAPSCREW		2	3/8"-16X2"	
15	4303585	REAR HOUSING		1		
16	14335	GASKET		1		K-2199
17	4302320	COVER	21346	2		
18	4305978	GASKET	4302246	2		K-2199
20	K-2262	OIL SEAL W/SLINGER	19109 20807 20808	1	"FOR MECHANICAL COVER"	K-2865,K-2866
21	K-3651	OIL SEAL TOOL KIT		1		

**10301A-2/94 Iron Hsg**

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

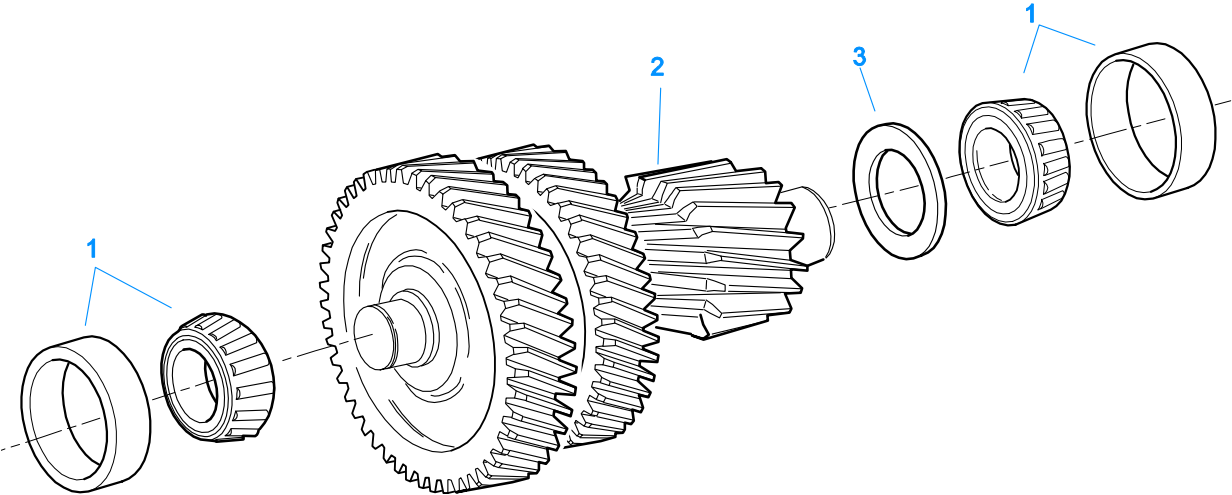
#2 Housing – Upper bore use 2 #12815 and 1 #8677 / Lower bore use 2 #8677.

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

CASE (FRONT)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	S-2264	CASE ASSY	4302673	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-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 PULL IRON	
8	A-3723	CLUTCH HOUSING ASSY	A - 3721 ,A - 3722	1	#2 PULL IRON	
9	239614	SCREW	X-8L-509	4	5/16-18X.81 QUANTITY DEPENDENT ON DESIGN	
10	14507	HAND HOLE COVER		1	#2 PULL	
10	4305230	HAND HOLE COVER	11453	1	#1 PULL	
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	X-1-1005	6	.625-18	
14	20550	FRONT BEARING COVER		1		K-2468,K-4125
15	X-8L-604	CAPSCREW		6	3/8"-16X1-1/4"	
17	14311	GASKET		1		K-2199
18	12815	BUSHING		2	FOR #2 HOUSING UPPER	A-3713,A-3723,K-2468
18	12815	BUSHING		4	FOR #1 HOUSING UPPER	A-3713,A-3723,K-2468
18	8677	BUSHING		1	FOR #2 HOUSING UPPER	A-3713,A-3723
19	8677	BUSHING		2	FOR #1 AND #2 HOUSING LOWER	A-3713,A-3723
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	
21	4304023	PLUG	4303747	1	1-1/16" MAGNETIC, O-RING INCLUDED	S-2264
22	X-8-686	CAPSCREW		6	3/8"-16X3/4"	

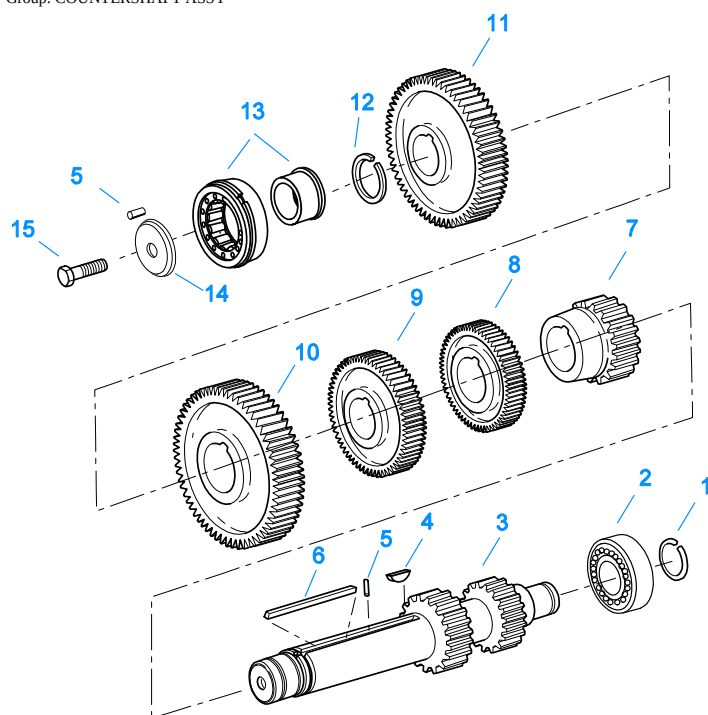
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
23	14575	PTO COVER	4302254	1		
24	4305309	GASKET	1684	1		K-2199
27	14373	MAGNET		3		S-2264
28	18128	PIN		2		
29	X-1-1012	HEX NUT		2	.625-18	
30	X-10-1005	WASHER	X 3 1000 ,X10 1000 ,X10 1004	2	1.23 X 6.60	
31	14554	STUD	1632 ,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"	
40	4302680	BUSHING		1		



10444-5/93 CS Helical

COUNTERSHAFT & BRGS(AUX)

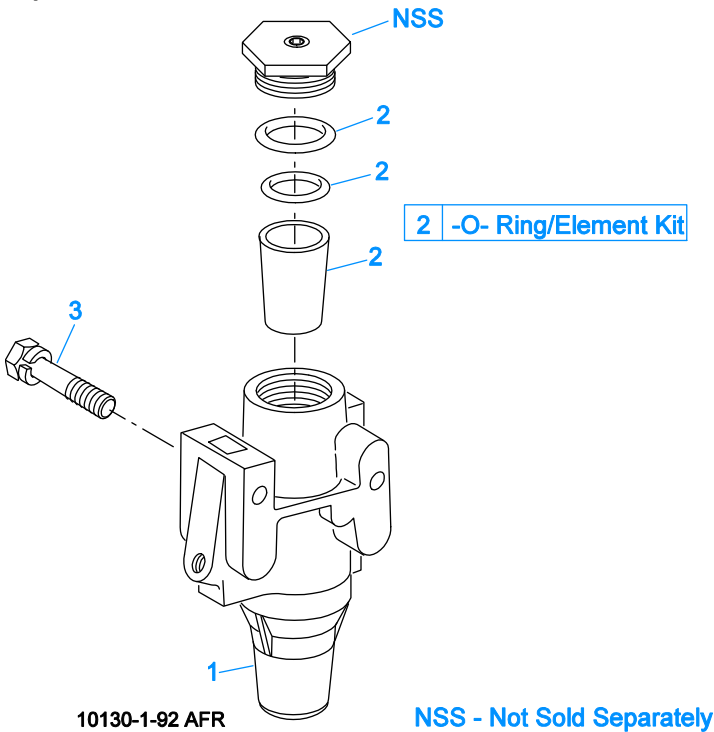
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	4301851-BOX	BEARING	4301851	4		K-2865,K-2866
2	K-3220	COUNTERSHAFT REPLT KIT	4301792 ,4301793 ,A - 6187 ,A - 6602 ,A - 6603	2		
3	4303124	SPACER	K-3220			



10341-1/92 CS/RT

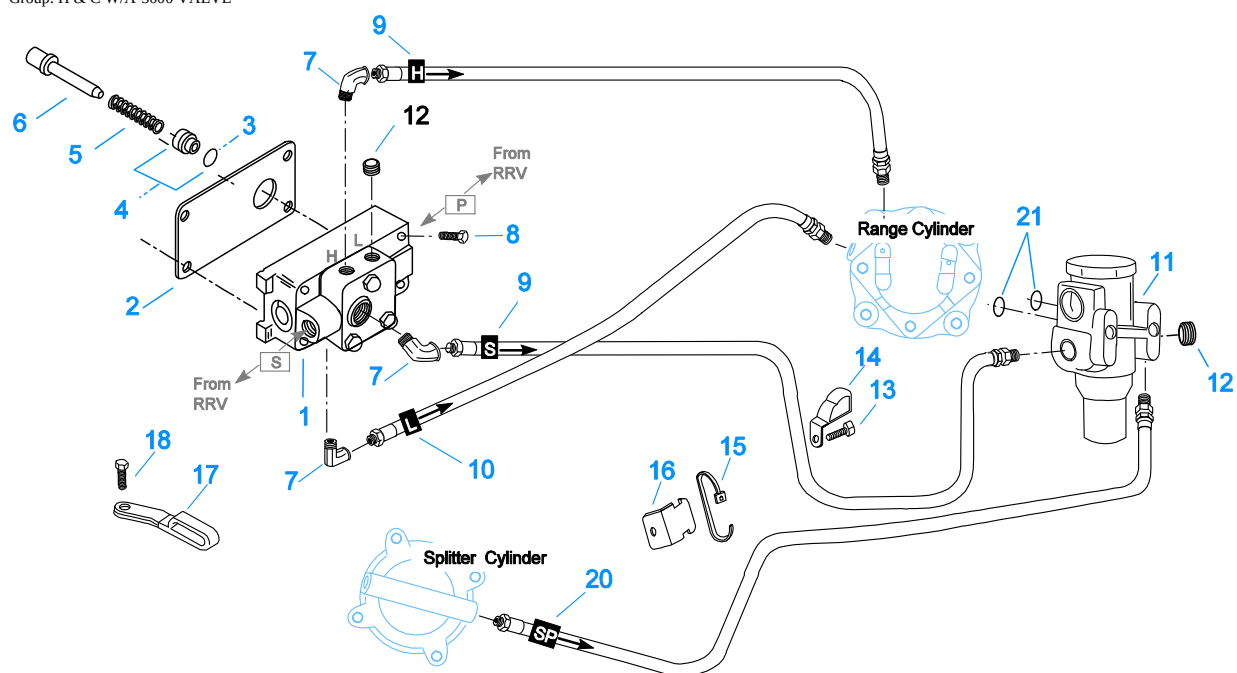
COUNTERSHAFT ASSY

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
0	S-3029	COUNTERSHAFT ASSEMBLY, RIGHT		1	COMPLETE COUNTERSHAFT ASSEMBLY, RIGHT	
0	S-3030	COUNTERSHAFT ASSEMBLY, LEFT		1	COMPLETE COUNTERSHAFT ASSEMBLY, LEFT	
1	4302082	SNAP RING		2		K-2865,K-2866,S-3029,S-3030
2	4302712	BEARING		2		K-2865,K-2866
3	K-2947	CNTRSHFT-W/REV & LO	4302652	2		
4	X-6-E	KEY		2		S-3029,S-3030
5	62511	ROLL PIN		4		S-3029,S-3030
6	4304840	KEY	19673	2		S-3029,S-3030
7	4300241	1ST GEAR-CNTRSHFT		2		S-3029,S-3030
8	4300247	2ND GEAR-CNTRSHFT		2		S-3029,S-3030
9	4303666	OD GEAR - CNTRSHFT	4304508 ,4304315	2		S-3029,S-3030
10	15953	PTO GEAR - LOWER		1		S-3030
10	20840	PTO GEAR - UPPER	15952	1		S-3029
11	4302666	DRIVE GEAR-CNTRSHFT		2		S-3029,S-3030
12	19198	SNAP RING		2		S-3029,S-3030
13	4304599	BEARING	4302677 4304598	2		K-2865,K-2866
14	4304605	RETAINER	19548	2	ROLL PIN NO LONGER REQUIRED	
15	X-7-1005	CAPSCREW		2	5/8"-18X1-3/4"	



FILTER REGULATOR

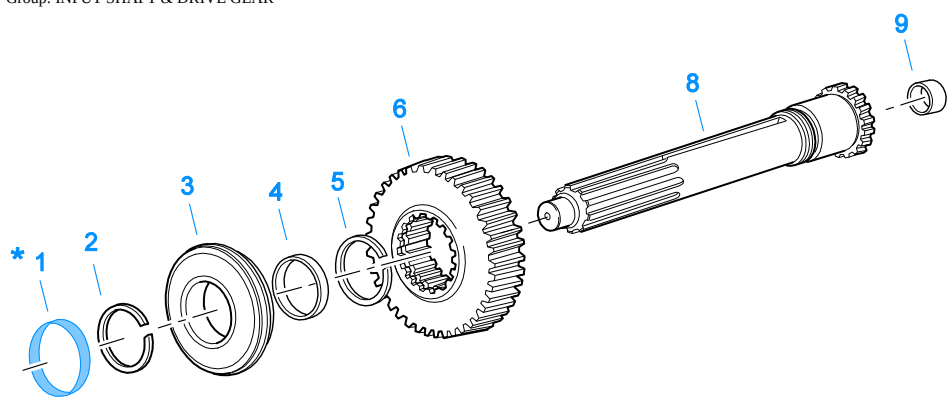
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	A-4740	FILTER/REGULATOR	19600	1		
2	K-1698	-O- RING/ELEMENT KIT		1	FOR FILTER REGULATOR	
3	X-8C-412	CAPSCREW	X 8S 412	2	1/4"-20X2-1/4"	



10110I-2/94 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		
2	19481	GASKET		1		K-2199
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	55528	HOSE ASSY		2	36"	
10	55509	HOSE ASSY		1	34"	
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"	
20	55527	HOSE ASSY		1	15"	
21	15114	-O- RING		2		A-5000,K-1935



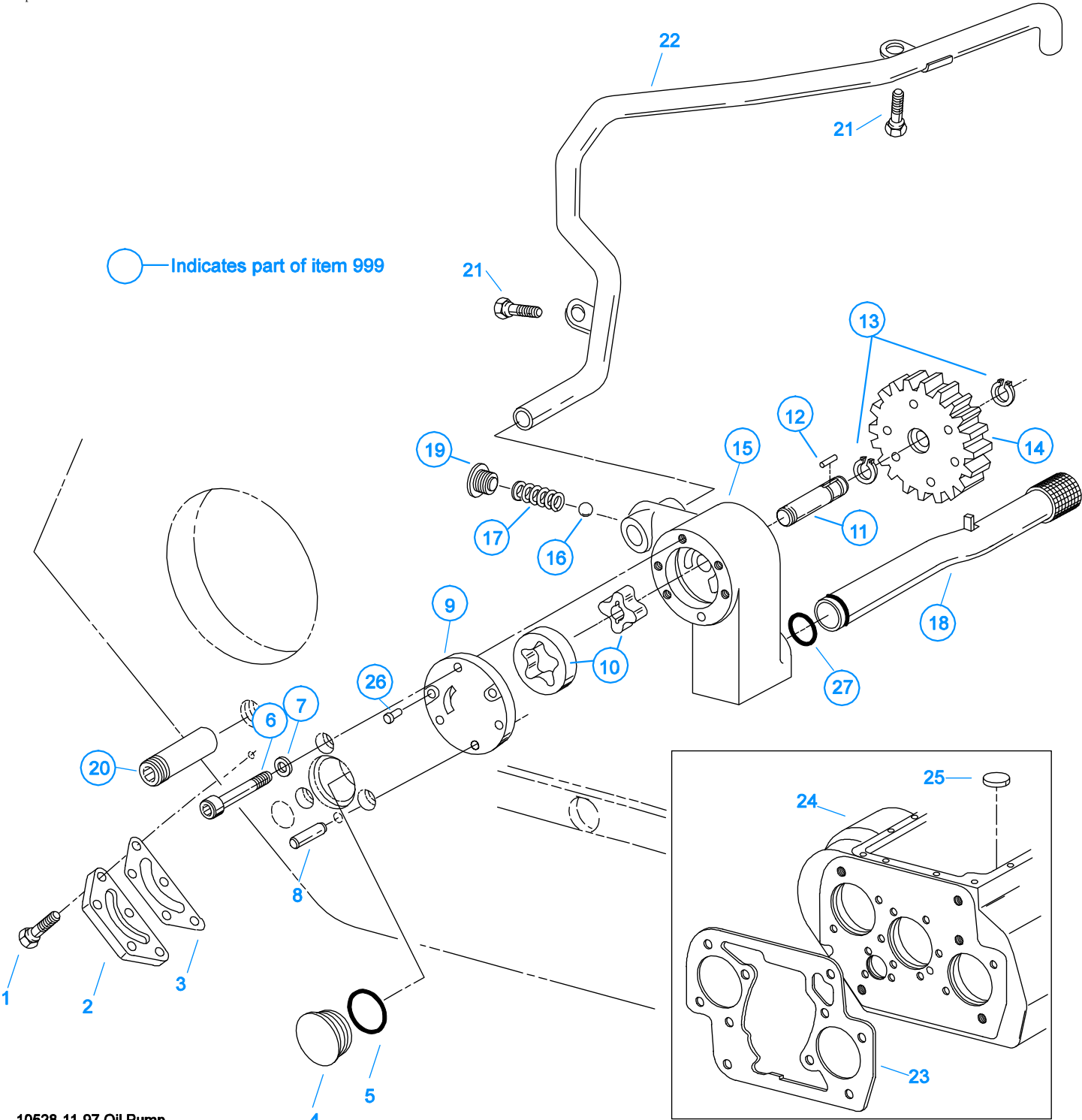
* For Shipping Only -- Do Not Replace

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10370-1/92 IS

INPUT SHAFT & DRIVE GEAR

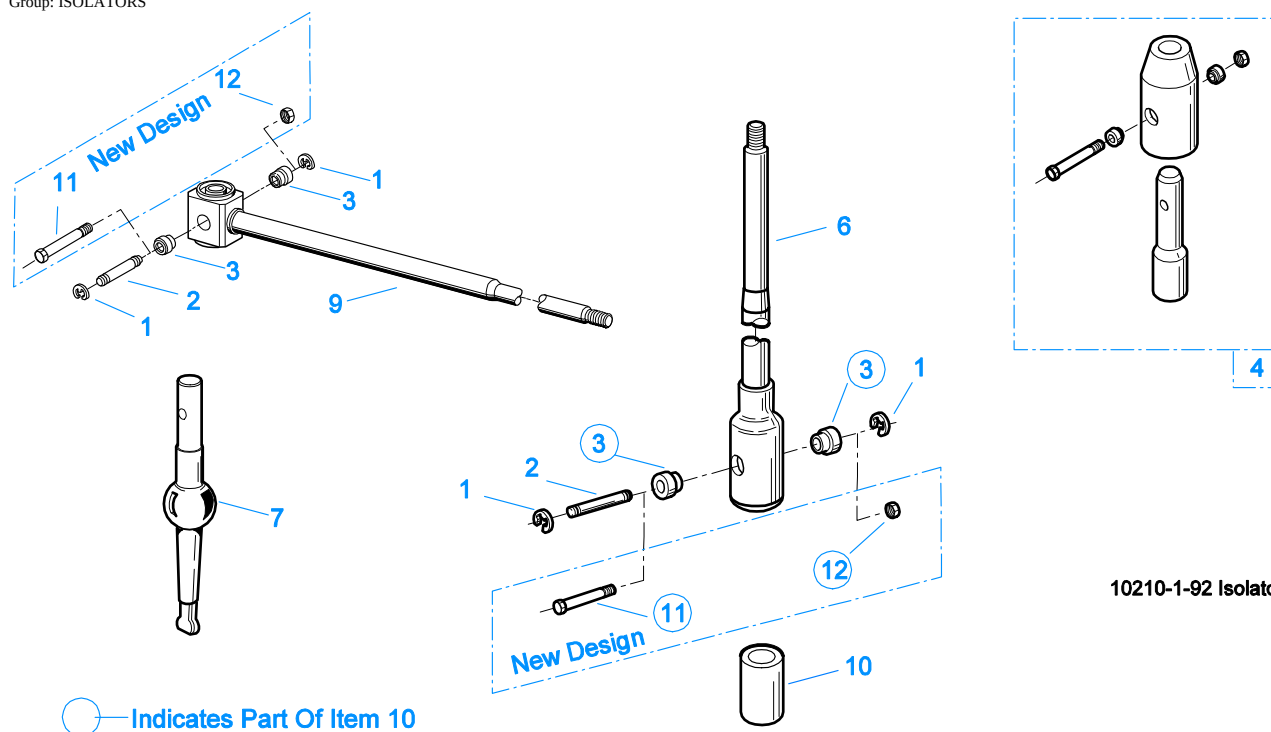
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	23559	SHIPPING SEAL		1	NOT SOLD FOR SERVICE	
2	16980	SNAP RING		1		K-2468,K-2865,K-2866,K-4125
3	81504	BEARING		1		K-2468,K-2865,K-2866,K-4125
4	16463	SPACER		1		
5	14750	SNAP RING		1		K-2468,K-2865,K-2866,K-4125,S-3050
6	4302662	MAIN DRIVE GEAR		1		
8	S-1659	INPUT SHAFT	20535 23566 4302661	1	2" PULL - USE W/FBC 20550	K-2468,K-2866,K-4125
8	S-1660	INPUT SHAFT	20536 ,23567	1	2" PUSH - USE W/FBC 20549	
9	16566	BUSHING		1		K-2865,S-1659,S-1660



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"	
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-2802,K-2804,K-2809
6	X-8-448	SCREW	X 8 445	3	1/4"-20X1-1/4"	
7	20824	WASHER		3		K-3367

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
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	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		
20	4303828	PLUG		1		K-3367
21	X-8-686	CAPSCREW		2	3/8"-16X3/4"	
22	4305715	SPLITTER LUBE TUBE	A - 7197	1		
23	4306584	CLUTCH HOUSING GASKET	4304815,4305668	1		K-2199
24	S-2264	CASE ASSY	4302673	1		
25	14373	MAGNET		3		S-2264
26	X-8-447	SCREW		2		
27	20225	-O- RING		1		
999	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		



10210-1-92 Isolator

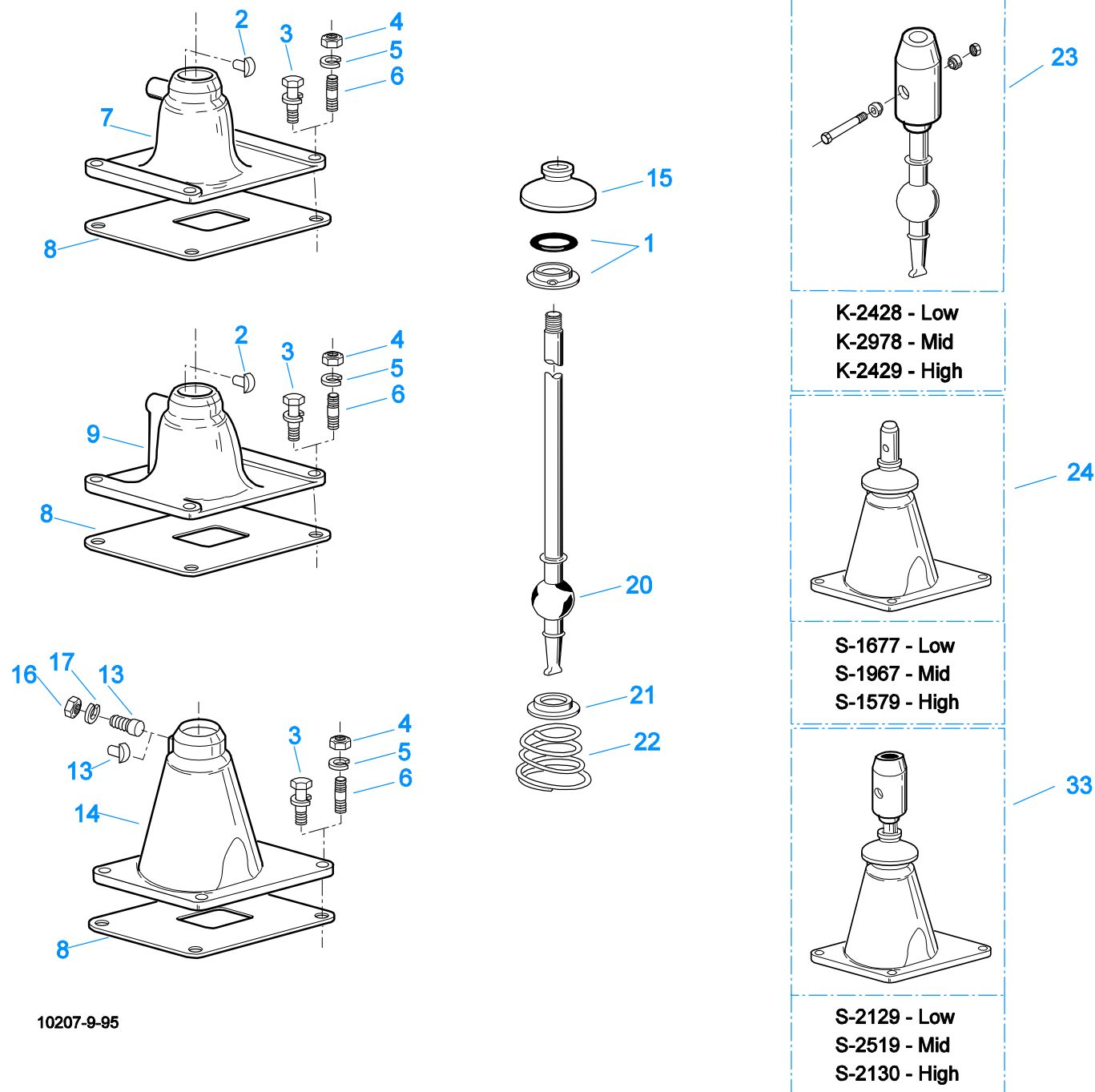
ISOLATORS

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-1476	SHIFT LEVER HSG	4530 ,17163 ,18298 ,4304905 ,A - 4437	1	LOW TOWER	
	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-1969	SLEEVE KIT	14362 ,19460 ,21446	1	FOR SLAVE VALVES	
	K-2003	PIN & BUSHING KIT		1		
	K-2072	MASTER VALVE REPAIR KIT		1	FOR A-5013 VALVE	
	K-2199	GASKET KIT		1		K-2865,K-2866
	K-2262	OIL SEAL W/SLINGER	19109 20807 20808	1	"FOR MECHANICAL COVER"	K-2865,K-2866
	K-2394	AIR SYSTEMS TOOL KIT		1		
	K-2402	COVER & SCREW KIT	20513 ,4300751	1		
	K-2428	LEVER REPLACEMENT KIT		1	LOW TOWER	
	K-2429	LEVER REPLACEMENT KIT		1	HIGH TOWER	
	K-2468	CLUTCH INSTALLATION KIT		1	FOR USE WITH S-1659 INPUT SHAFT ASSY AND 81504 INPUT SHAFT BEARING	
	K-2802	-O- RING KIT-RANGE		1		
	K-2803	O-RING KIT - SPLITTER		1		
	K-2804	-O- RING KIT-COMplete		1		K-2865,K-2866
	K-2805	SHIM KIT	21452 K - 2106	1		K-2865,K-2866
	K-2808	REPL KIT-DRIVE GEAR	4300932 ,4300938	1		
	K-2809	RANGE CYLINDER KIT		1		
	K-2864	KEY & WASHER KIT		1		
	K-2865	BASIC REBUILD KIT		1		
	K-2866	BASIC OVERHAUL KIT		1		
	K-2947	COUNTERSHAFT REPL KIT	4302652	1		
	K-2973	SHIFT LEVER HSG KIT	17166 ,17167 ,4303050 ,4304910 ,K - 1630 K - 1941	1	HIGH TOWER	
	K-2977	SHIFT LEVER HSG KIT	4301167 ,4304907 ,A - 6040	1	MID TOWER	
	K-2978	LEVER REPLACEMENT KIT		1	MID TOWER	
	K-3104	ACTUATOR PIN KIT	4303287	1		
	K-3191	MASTER VALVE REPAIR KIT		1	FOR A-6918 VALVE	
	K-3198	T-2 VALVE KIT	691300 ,691359	1		
	K-3220	COUNTERSHAFT REPLT KIT	4301792 ,4301793 ,A - 6187 ,A - 6602 ,A - 6603	1		
	K-3331	SPLITTER VLV REPL KIT	4300927 ,4304031 ,4304032 ,A - 6862	1		
	K-3367	OIL PUMP KIT	4301829 ,4301948 ,4303776 ,4304529 ,4304572 A - 6963 ,A - 7173	1		
	K-3376	O-RING & WASHER KIT	4301211	1		
	K-3399	ISOLATOR BUSHING KIT	21244 ,23311	1		
	K-3441	OIL FILTER/ADAPTER KIT		1		
	K-3467	PIN REPLACEMENT KIT	21245	1		
	K-3492	SYNCHRONIZER KIT	K - 2446	1		
	K-3497	SYNCHRONIZER REPLACEMENT KIT	K - 3200	1	SLIDING CLUTCH INCLUDED IN KIT	
	K-3651	OIL SEAL TOOL KIT		1		
	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-1659	INPUT SHAFT	20535 23566 4302661	1	2" PULL - USE W/FBC 20550	K-2468,K-2866,K-4125
	S-1660	INPUT SHAFT	20536 ,23567	1	2" PUSH - USE W/FBC 20549	
	S-1794	ISOLATOR ASSY		1		

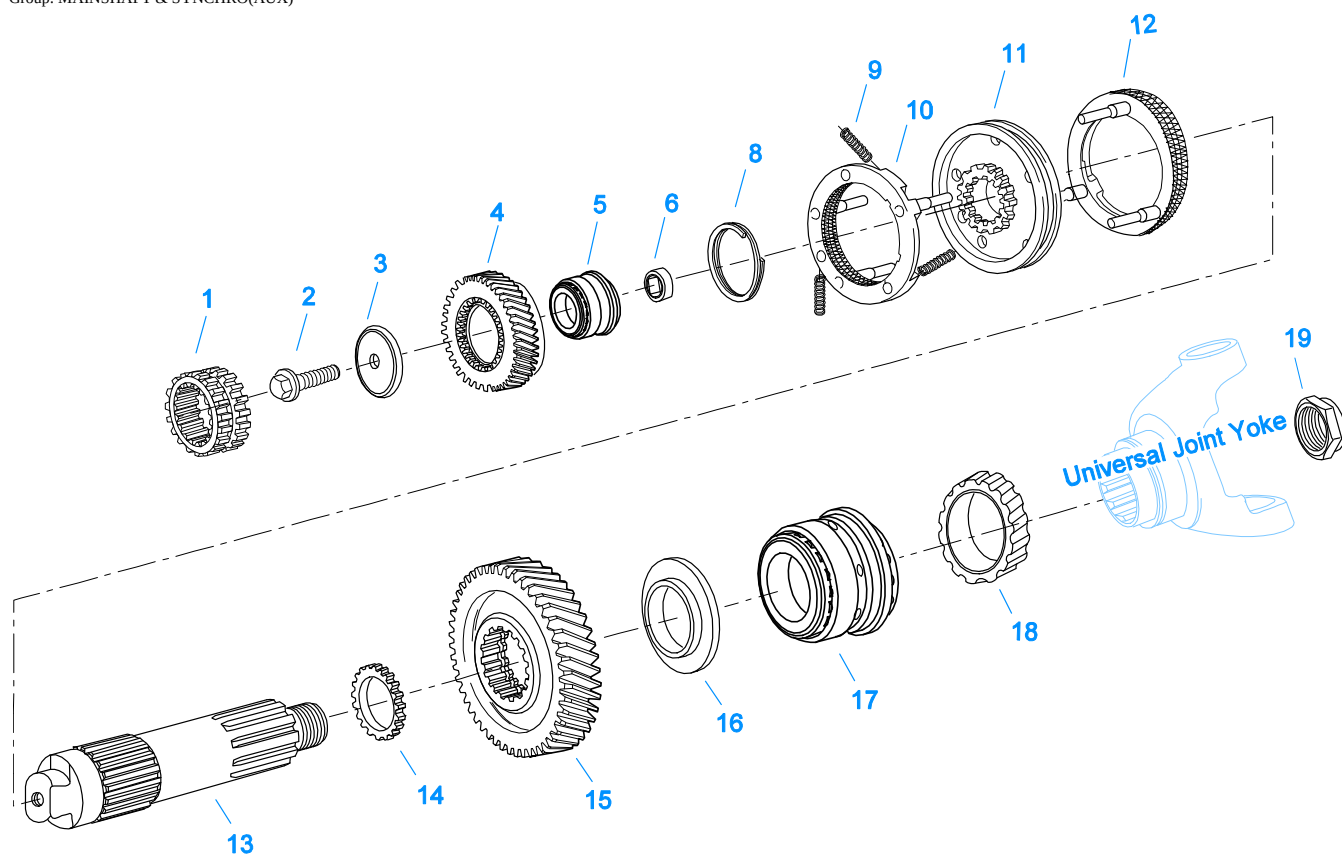
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
	S-2107	REAR BRG COVER ASSY	4300892	1		
	S-2129	SHIFT LEVER HSG ASSY		1	LOW TOWER	
	S-2130	SHIFT LEVER HSG ASSY	S - 2053	1	HIGH TOWER	
	S-2264	CASE ASSY	4302673	1		
	S-2269	SHIFT BAR HSG	4302679	1	HOUSING ONLY (XF)	
	S-2270	SHIFT BAR HSG	4302675	1	HOUSING ONLY (X)	
	S-2271	SHIFT BAR HSG ASSY	4302679	1	COMPLETE (XF)	
	S-2272	SHIFT BAR HSG ASSY	4302675	1	COMPLETE (X)	
	S-2519	SHIFT LEVER HSG ASSY	S - 2919	1	MID TOWER	
	S-3108	MAINSHAFT ASSY	4302658 ,4303403 ,S - 2268,S-2560	1		



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-2269,S-2270,S-2271,S-2272
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-

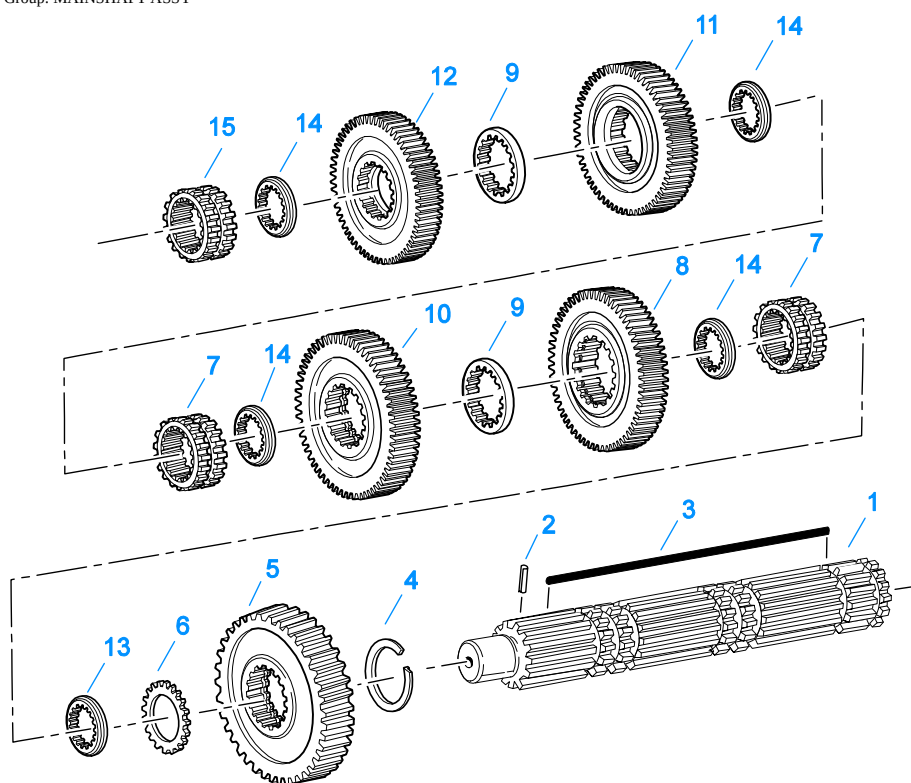
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
9	K-2977	SHIFT LEVER HSG KIT	4301167 ,4304907 ,A - 6040	1	MID TOWER	2973,K-2977,K-2978,S-1579,S-1677,S-1967,S-2129,S-2130,S-2271,S-2272,S-2519
13	4303030	PIN		1		K-2973,S-1579,S-2130
13	6541	PIN		1	3/8" - USED W/17167 ONLY	
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	



10438-12-97 Aux MS

MAINSHAFT & SYNCHRO(AUX)

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	4300907	SLIDING CLUTCH		1		
2	X-7-1007	SCREW		1	5/8"-18X1-3/4"	
3	4301843	RETAINER		1		
4	4303422	SPLITTER GEAR	4303421 ,4303423	1		
5	4300902-BOX	TAPERED ROLLER BRG	4300902	1		K-2865,K-2866
6	4301844	BEARING SLEEVE		1		
8	4303424	SNAP RING		1		K-2865,K-2866
9	14897	SPRING		3		K-2865,K-2866,K-3492,K-3497
10	A-7331	SYNCHRONIZER ASSY	4304396 4304397 A - 5917	1	HI RANGE	K-3492,K-3497
11	4301840	SLIDING CLUTCH	4303386	1		K-3497
12	A-7254	SYNCHRONIZER ASSEMBLY	A - 4937 A - 5876	1	LO RANGE	K-3492,K-3497
13	4300904	AUXILIARY MAINSHAFT		1		
14	4301842	WASHER		1		
15	4301795	REDUCTION GEAR	4301794	1		
16	4300912	SPACER		1		
17	21356-BOX	BEARING	21356	1		K-2865,K-2866
18	20191	ROTOR		1		
19	22254	NUT	11956	1		



10337B-10-96

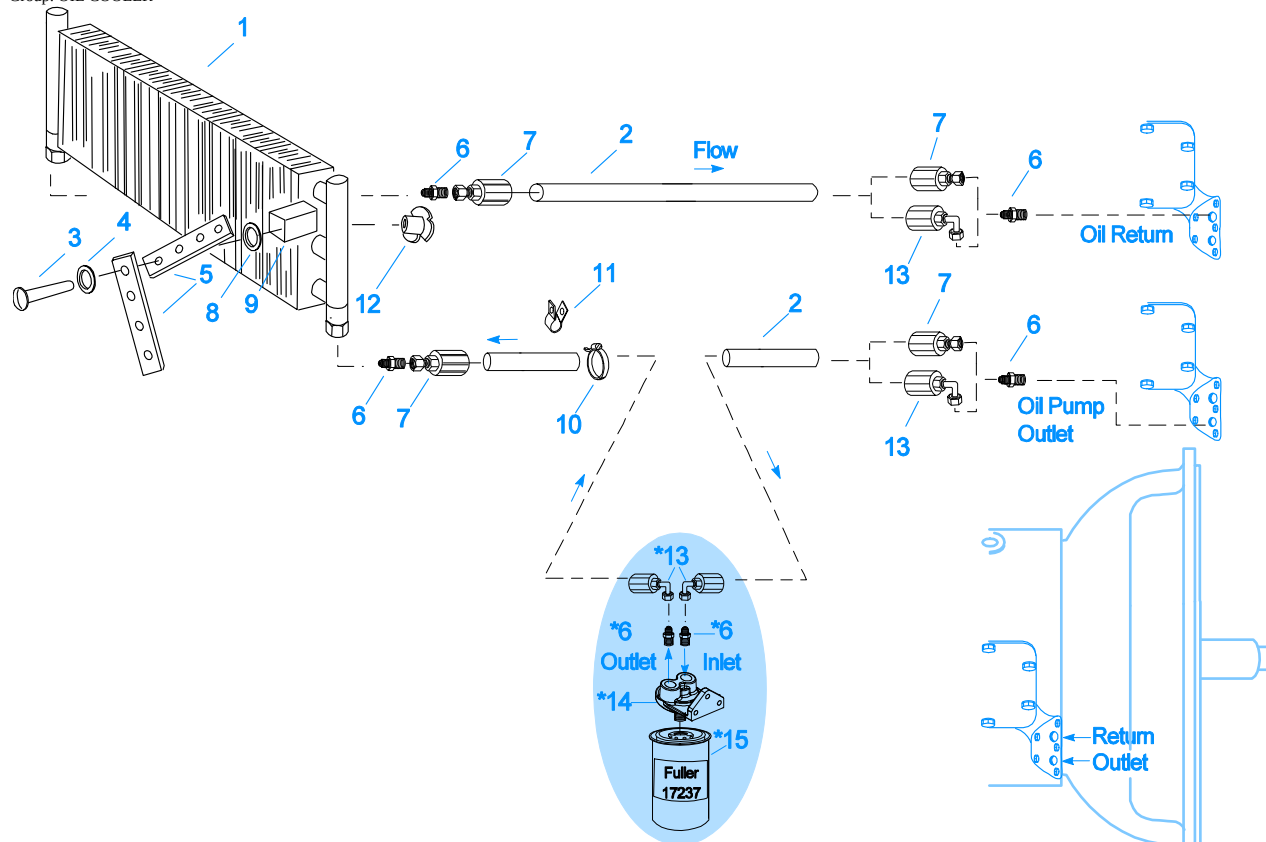
MAINSHAFT ASSY

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
0	S-3050	COMPLETE MAINSHAFT ASSEMBLY		1	COMPLETE MAINSHAFT ASSEMBLY	
1	S-3108	MAINSHAFT ASSY	4302658 ,4303403 ,S - 2268,S-2560	1		
2	62504	ROLL PIN		1		S-3050,S-3108
3	4304615	3-SIDED KEY	4300120	1		K-2864,S-3050
4	14750	SNAP RING		1		K-2468,K-2865,K-2866,K-4125,S-3050
5	16756	REVERSE GEAR-MAINSHAFT	22408	1		S-3050
6	4302047	SPACER		1		S-3050
7	16118	SLIDING CLUTCH		2		S-3050
8	4303409	LO GEAR-MAINSHAFT	4303407	1		S-3050
9	4303603	WASHER	4302397	2		K-2864,S-3050
10	4303406	1ST GEAR-MAINSHAFT		1		S-3050
11	4302670	2ND GEAR-MAINSHAFT		1		S-3050
12	4304514	OD GEAR-MAINSHAFT	4302664 ,4303698 ,4304316	1		S-3050
13	4300382	WASHER .249-WHITE		1		K-2864,S-3050
14	4302398	WASHER		4		K-2864,S-3050
15	4304317	SLIDING CLUTCH	22026	1		K-2866,S-3050

MISCELLANEOUS

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
	4303613	SHIFT DIAGRAM LABEL		1		
	71203	SILICONE LUBE		1	8 OZ (236.59 CC)-FLEET SIZE	
	71204	ADHESIVE SEALANT		1	0.5 CC (SINGLE APPLICATION SIZE)	K-3198
	71205	SEALANT		1	2 CC (SINGLE APPLICATION SIZE)	K-2866
	71206	SILICONE LUBE		1	4 CC (SINGLE APPLICATION SIZE)	K-2428,K-2429,K-2802,K-2803,K-2804,K-2809,K-2978,K-3331

Group: OIL COOLER



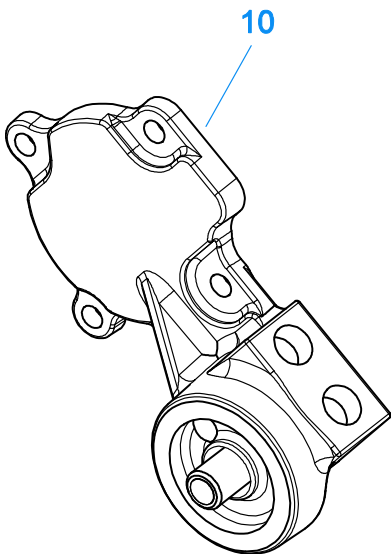
10525-4/92 Cooler

*Adding Oil Filter and parts as shown is optional.

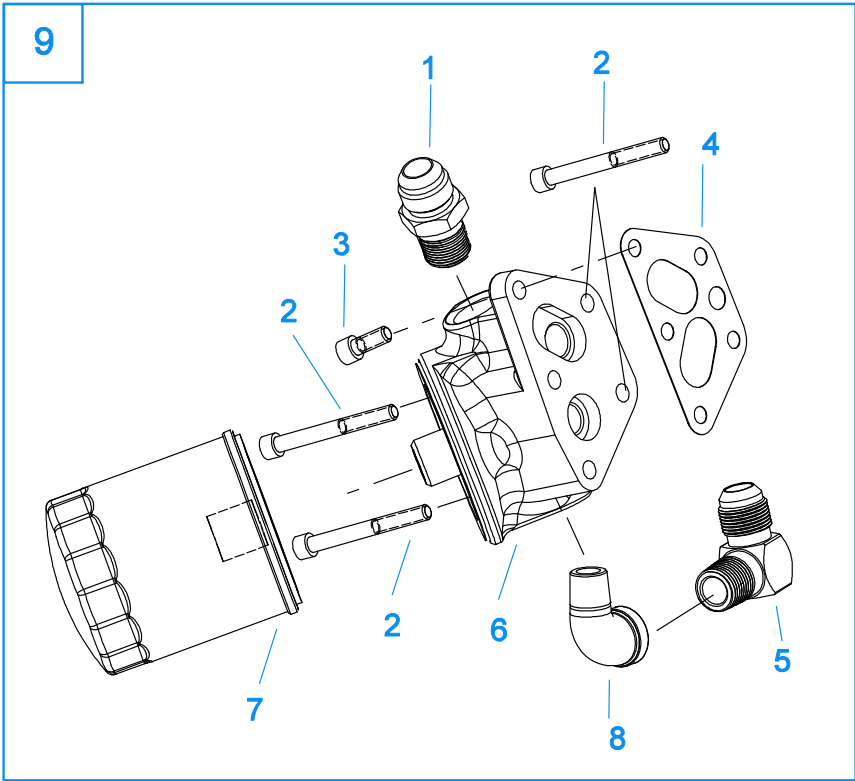
Return / Outlet Location

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,K-3441,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

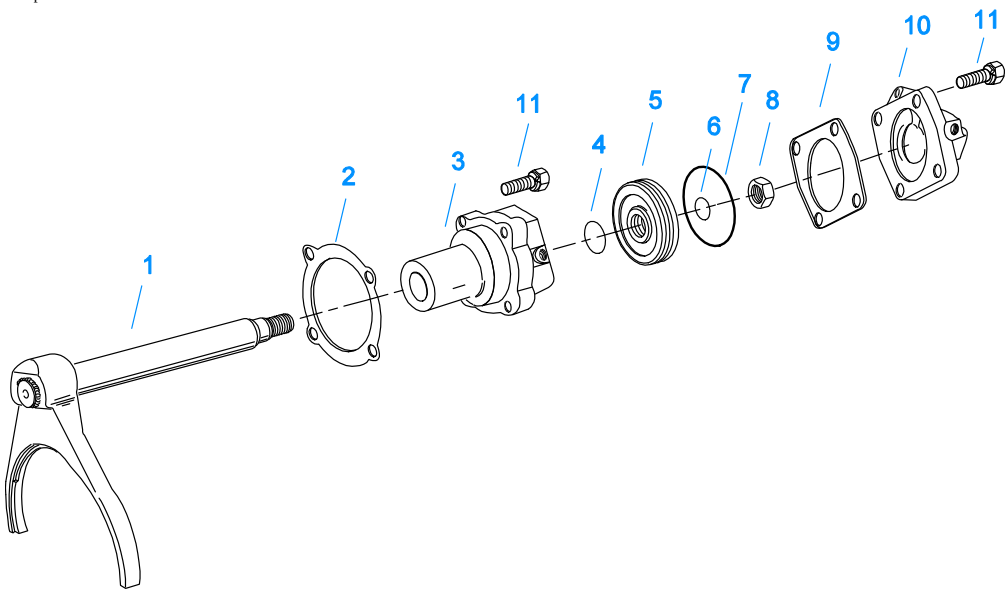


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OIL FILTER

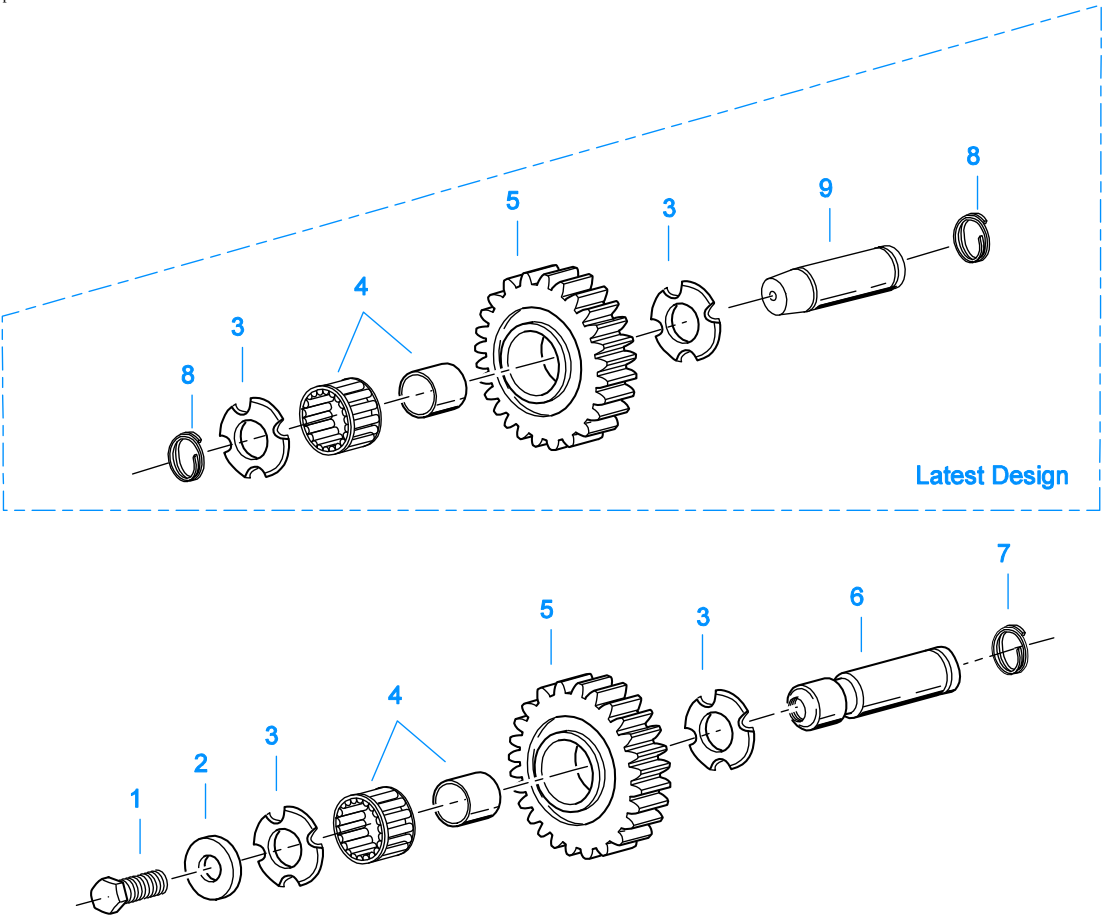
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	19419	CONNECTOR		1		K-1956,K-3441,S-1404
2	X-8-453	SCREW		4		K-3441
3	X-8-452	SCREW		1		K-3441
4	4304820	GASKET		1		K-3441
5	4301123	ELBOW		1		K-3441
6	K-3441	OIL FILTER/ADAPTER KIT	A - 7174	1		
7	4304827	OIL FILTER ELEMENT		1		K-3441
8	17007	ELBOW		1		K-3441
9	K-3441	OIL FILTER/ADAPTER KIT		1		
10	A-7300	AUX COUNTERSHAFT COVER ASSY		1		



10461A-6/93 Rng Cyl

RANGE CYLINDER

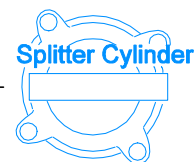
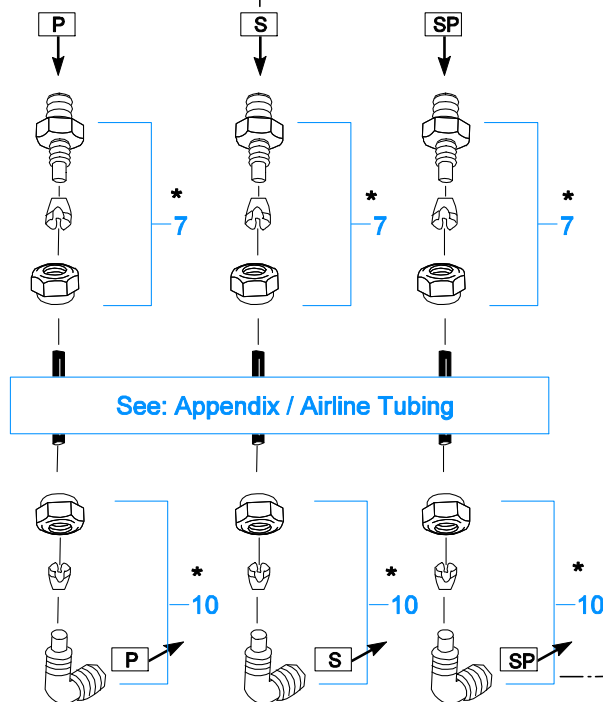
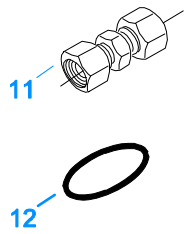
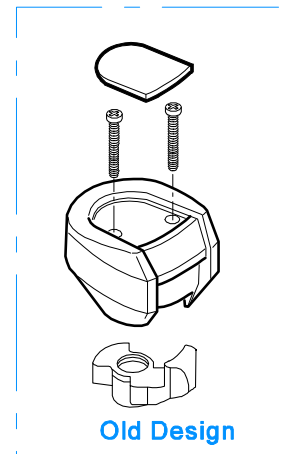
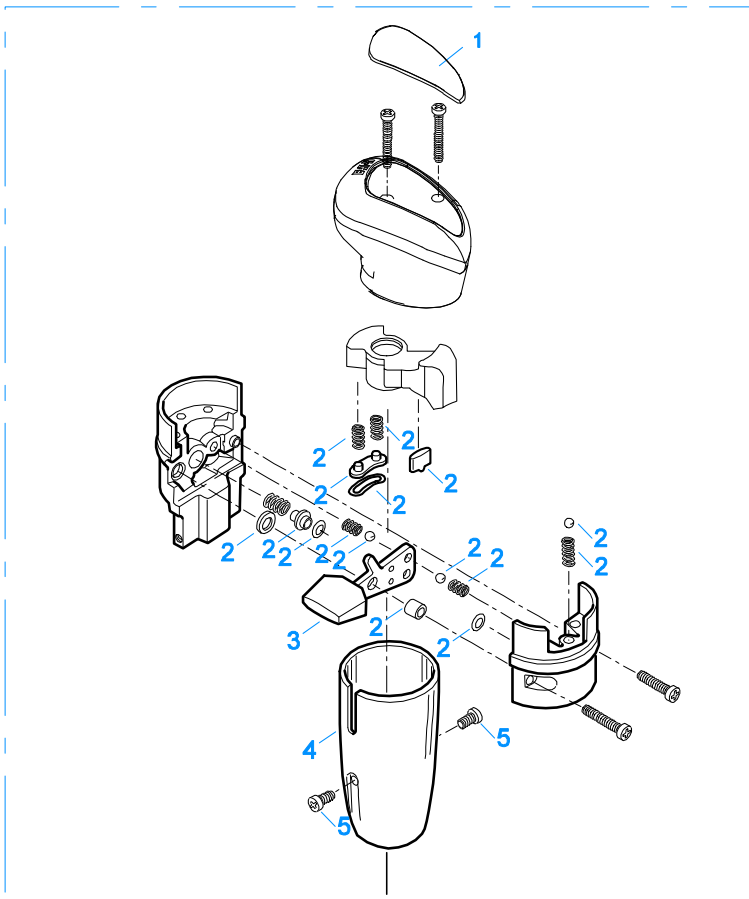
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	A-6224	WELDED YOKE ASSY		1		
2	14347	GASKET		1		K-2199,K-2802,K-2804,K-2809
3	4301847	CYLINDER		1		K-2809
4	14765	-O- RING		1		K-2802,K-2804,K-2809
5	14341	PISTON	23353	1		K-2809
6	14345	-O- RING		1		K-2802,K-2804,K-2809
7	14344	-O- RING		1		K-2802,K-2804,K-2809
8	X-1-1010	NUT		1	5/8"-18	
9	14349	GASKET		1		K-2199,K-2802,K-2804,K-2809
10	19690	CYLINDER COVER		1		
11	X-8L-604	CAPSCREW		8	3/8"-16X1-1/4"	



11382-3-97 RI

REVERSE IDLER

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	X-7-1008	CAPSCREW		2	5/8"-18X1-1/4	
2	14283	WASHER		2		
3	4302982	WASHER	14282	4		K-3209,S-2264
4	14287	BEARING	4305020	2		K-2865,K-2866
5	16757	REVERSE IDLER GEAR	22409	2		
6	K-3209	IDLER SHAFT REPL KIT	16405 ,4302981 ,4305513	2		
7	4303336	RETAINING RING		2		K-3209
8	4303336	RETAINING RING		4		K-3209
9	4305513	IDLER SHAFT		2		K-3209

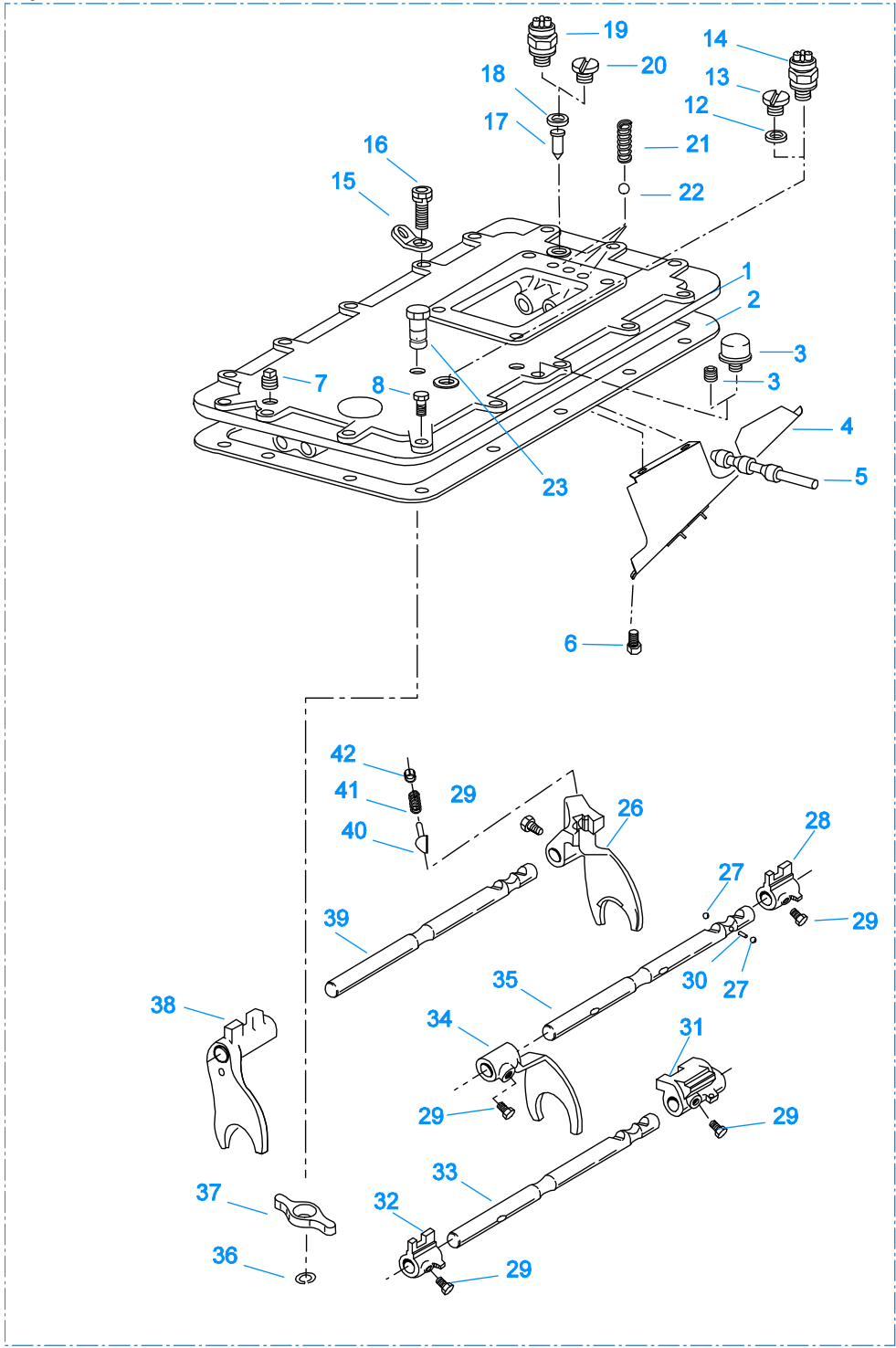


10103B-5-98 RRV - 3

*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	5586100	MEDALLION, LOGO		1	(LATEST DESIGN) FULLER LOGO ONLY	A-6918
2	K-2072	MASTER VALVE REPAIR KIT		1	FOR A-5013 VALVE	
2	K-3191	MASTER VALVE REPAIR KIT		1	FOR A-6918 VALVE	
3	20495	LEVER		1		A-6918
4	20112	COVER		1		A-6918
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	
7	84005	CONNECTOR ASSY		3	"PUSH-TO-CONNECT" 5/32" TUBE-1/16" NPTF	K-2866
10	85001	ELBOW ASSY	84501	3	5/32" TUBE-1/8" NPTF	
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-2866, K-3198, K-3331
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		2		
999	A-6918	ROADRANGER VALVE ASSY	A - 5013	1	STANDARD-W/LOGO	



10242-2-94 X-Bar

SHIFT BAR HOUSING

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	S-2270	SHIFT BAR HSG	4302675	1	HOUSING ONLY (X)	
2	4302676	GASKET	14918	1		K-2199,S-2269,S-2270,S-2271,S-2272
3	4304602	BREATHER	23605	1	1/4" NPT	
3	X-12-404	PIPE PLUG		1	1/4" NPT	
4	20070	OIL TROUGH		1		S-2271,S-2272
5	20332	AIR VALVE SHAFT	17177	1		S-2271,S-2272

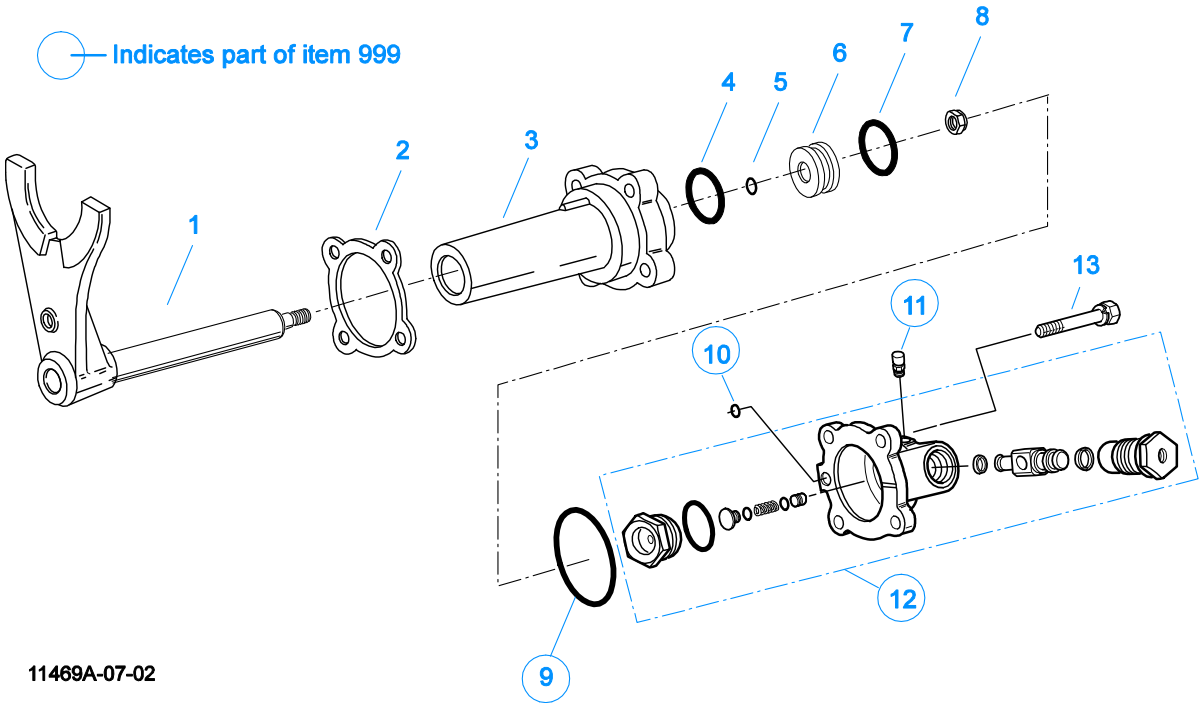
Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
6	X-8-423	CAPSCREW		2	1/4"-20X1/2"	
7	X-12-603	PIPE PLUG	X12 602	1	3/8" NPT	
8	X-8L-609	CAPSCREW		1	3/8"-16X1-3/4"	
12	17179	GASKET		1		S-2269,S-2270,S-2271,S-2272
13	4303655	PLUG	17178	1		S-2269,S-2270,S-2271,S-2272
14	22941	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		15	3/8"-16X1-1/4" OR USE 13 PCS OF X-8L-604 WITH 2 PCS OF X-8L-602	
17	15899	PIN		1		S-2269,S-2270,S-2271,S-2272
18	15900	GASKET		1		S-2269,S-2270,S-2271,S-2272
19	22940	REVERSE LIGHT SWITCH	16830	1	SWITCH NORMALLY OPEN	
20	4303656	PLUG	15917	1		S-2269,S-2270,S-2271,S-2272
21	15918	SPRING		3		K-2866,S-2271,S-2272
22	X-14-800	STEEL BALL		3	1/2"	
23	K-3104	ACTUATOR PIN KIT	4303287	1		
26	16131	SHIFT YOKE		1	REVERSE/LO	S-1219,S-2272
27	X-14-1200	STEEL BALL		2	3/4"	
28	14658	SHIFT BLOCK		1	1ST/2ND	S-2272
29	3220	LOCKSCREW		5		S-2271,S-2272
30	1634	INTERLOCK PIN		1		S-2271,S-2272
31	19063	SHIFT BLOCK		1	3RD/OD	S-2272
32	20120	SHIFT BLOCK	18924	1	3RD/OD	S-2271,S-2272
33	18928	YOKE BAR	4302760	1	3RD/OD	S-2272
34	18922	SHIFT YOKE		1	1ST/2ND	S-2271,S-2272
35	18927	YOKE BAR		1	1ST/2ND	S-2272
36	4302070	SNAP RING		1		K-3104,S-2271,S-2272
37	4303225	ACTUATOR		1		S-2271,S-2272
38	4305575	SHIFT YOKE	20450	1	3RD/OD	S-2271,S-2272
39	18926	YOKE BAR		1	REVERSE/LO	S-2272
40	10019	PLUNGER		1		S-1219,S-2271,S-2272
41	6392	SPRING		1		S-1219,S-2271,S-2272
42	8968	PLUG		1		S-1219,S-2271,S-2272
999	S-2272	SHIFT BAR HSG ASSY	4302675	1	COMPLETE (X)	

This exploded view diagram illustrates the components of a 3-position 12VDC solenoid valve assembly. The parts are numbered as follows:

- 1:** Solenoid coil assembly.
- 2:** Multiple O-rings and seals used throughout the assembly.
- 3:** A specific O-ring for the solenoid.
- 4:** The main valve body.
- 5:** The threaded outlet fitting.
- 6:** The 3-position rotary valve core.
- 7:** The valve housing, which includes a cover plate with the "EATON" logo.
- 8:** A long screw used to secure the cover plate.

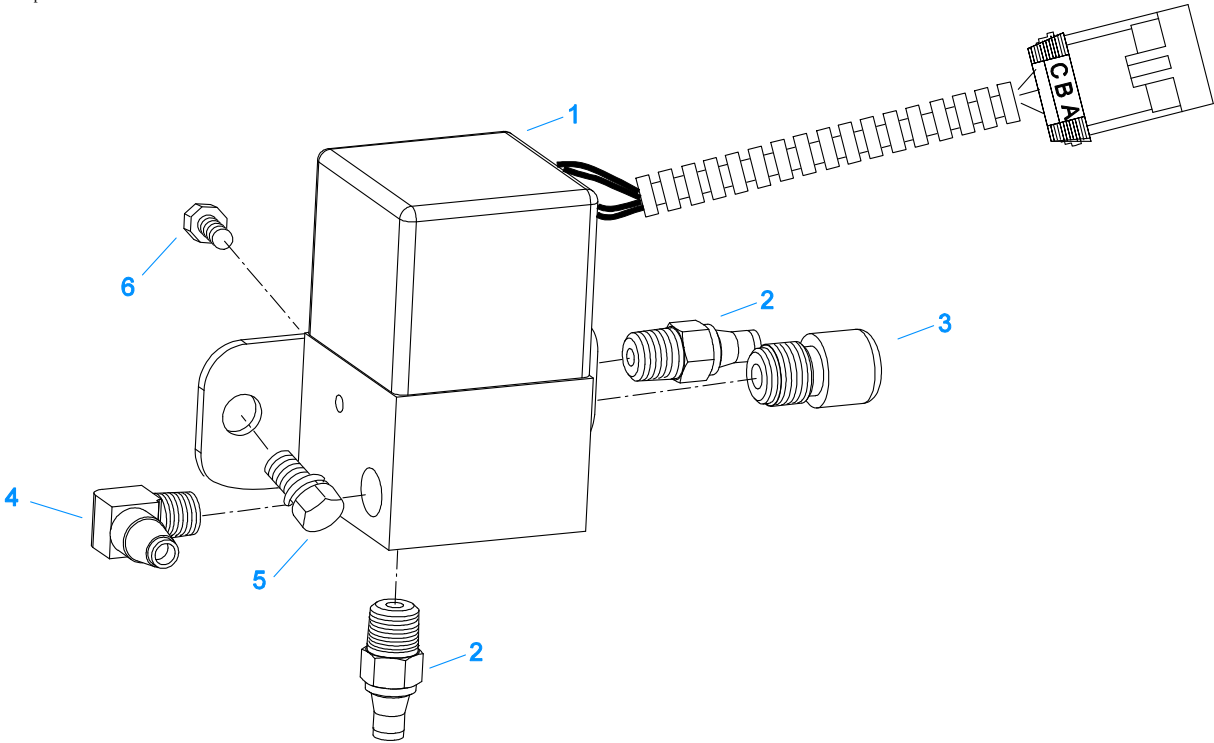
2	Repair Kit
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Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	A-5000	SLAVE VALVE ASSY	20850	1	FOR A-5000 VALVE	
2	K-1935	REPAIR KIT-SLAVE VALVE		1		
3	20855	PLUG		1		A-5000
4	20854	PISTON		1		A-5000
5	20849	CAP	15131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



SPLITTER CYLINDER

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	A-7011	SPLITTER YOKE ASSY	A - 6303 ,A - 6894	1		
2	4303583	GASKET		1		K-2199,K-2803,K-2804
3	4303582	SPLITTER CYLINDER		1		
4	21208	-O- RING		1		K-2803,K-2804
5	13653	-O- RING		1		K-2803,K-2804,K-3331
6	4301964	PISTON		1		
7	21209	-O- RING		1		K-2803,K-2804
8	X-1-805	NUT		1		
9	5568534	-O- RING		1		K-2804,K-3331
10	13653	-O- RING		1		K-2803,K-2804,K-3331
11	X2014210	BREATHER	7935	1		
12	K-3331	SPLITTER VLV REPL KIT	4300927 ,4304031 ,4304032 ,A - 6862	1		
13	X-8L-540	CAPSCREW		4	5/16"-18X1-7/8"	
999	K-3331	SPLITTER VLV REPL KIT	4300927 ,4304031 ,4304032 ,A - 6862	1		



10139-12-97 Top 2

TOP 2 VALVE

Item	Current Part	Description	Replaced Part	Qty.	Notes	Kits/Assys Where Needed
1	K-3198	T-2 VALVE KIT	691300 ,691359	1		
2	84006	CONNECTOR ASSY		2	"PUSH-TO-CONNECT" 5/32" TUBE-1/8" NPTF	K-3198
3	7935	BREATHER		1		K-3198
4	85003	ELBOW ASSY		1	"PUSH-TO-CONNECT" 5/32" TUBE-1/8" NPTF	K-2866,K-3198,K-3331
5	X-8C-556	CAPSCREW	X 8L 500	2	5/16"-18X3/4"	
6	X-8-214	SCREW		2		

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