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Eaton Fuller Heavy Duty Transmissions 6613 Series Parts and Service Manual

Eaton-Fuller Transmission RT6613 and RTO6613 Series Parts and Service Manual to assist in identifying your Eaton transmission.

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Roadranger®

Eaton® Fuller® Heavy Duty Transmissions

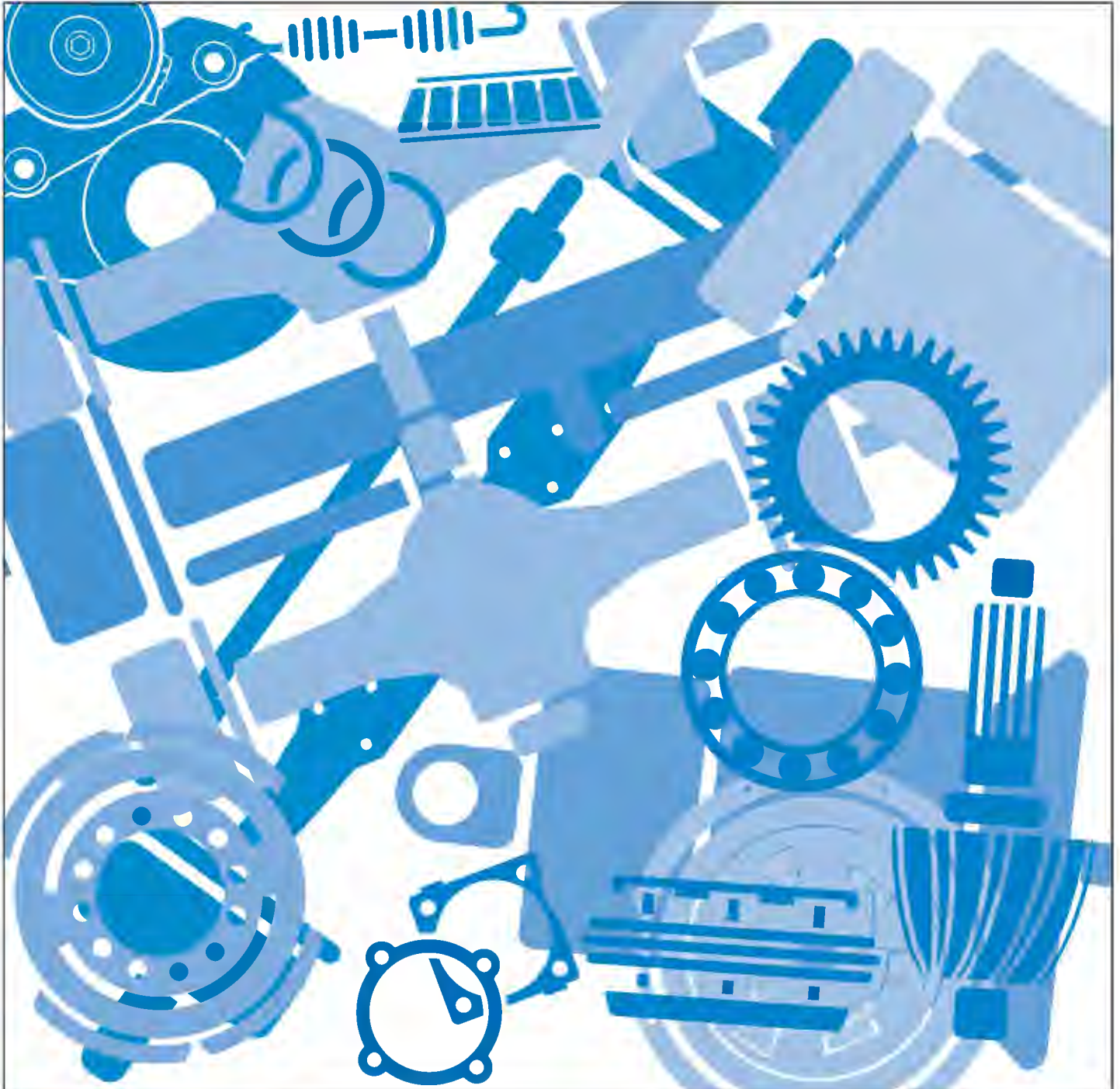
6613 Series



EATON

One Great Drivetrain from Two Great Companies

Illustrated Parts List TRIP-0600 June 1988



How To Use The Illustrated Parts List

All Lists are arranged the same; available kits, assemblies, drivers' instructions, technical service literature, and clutch housing information are listed in the front. Air systems, air controls, cases, clutch housings, bar housings, lever assemblies, main-shafts, countershafts, drive gears, idler, auxiliary drive gears, cylinders, auxiliaries, brakes, yokes, flanges and speedometer information follow in order.

Use of Kits and Assembly Listing (Page 2)

The first column shows on which page kit or assembly is found.

The second column shows symbols used to identify components of kits on that page.

If you do not have kit or assembly in stock, symbols will allow you to either put kit or assembly together from individual parts in your stock or find an individual part you may need that is in your inventory as part of a kit or assembly.

The third and fourth columns show part number and description.

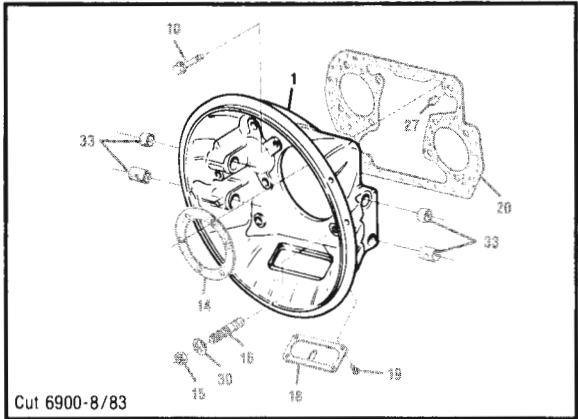
The fifth column to far right (in Color) shows recommended stocking quantities based on 25 transmissions.

Page	Sym.	Part #	Description	Stock Qty.
5	D	A-2268	Release yoke kit	1

Illustrated Index

Pages 8 and 9 are an Illustrated Index for this Illustrated Parts List. The isometric drawing is a typical Fuller twin countershaft transmission. The proper page on which to find these items are noted.

How to Identify Parts and Obtain Part Numbers.
Example: Service Clutch Housing



Determine item number of clutch housing
Example: Item Number is one.

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM-BOL	STOCK QTY.
1	1	A-3711	Clutch housing assembly #2 push-pull		@
	or 1	S-1085	Clutch housing assembly #1 push-pull iron		@
2	1	16800	Case order S-1318	n	@

Item #1—lists the variables; (i.e. SAE No. 1 or No. 2 clutch housing). Note Service Assembly for clutch housing is for both pull and push type clutches. One Service Assembly for each SAE size.

Use of Symbols

Items 42 and 43 have symbol "D"
A-2268 assembly also has symbol "D"
This shows that items 42 and 43 are contained in A-2268

41	1	14494	Pedal shaft		1
42	2	X-7-603	Bolt 3/8"-24 x 1"	D	--
43	1	12817	Release yoke	D	1
44	2	9293	Spring		2
45	1	X-6-11	Key		--
46	1	1984	Pedal shaft (std.) #1 housing		1
	or 1	1983	Pedal shaft (std.) #2 housing		1

The symbol in stocking column of A-2268 shows that the stocking quantity is listed on page 2.

PART NO.	DESCRIPTION	SYM-BOL	STOCK QTY.
A-219	Adjusting arm assembly	E	@
A-2268	Release yoke kit	D	@
S-1318	Case assembly	n	@

Notes On Illustrations

Illustrations show parts in assembly groups.

Various notes are used where appropriate.

- Current production
- Not used in current production
- Use of lockwire
- Transmission model information

“Keep your Fuller Transmission Fuller.”

This booklet is designed to identify all parts in the RT-6613 Series Transmissions and to recommend an initial parts stocking quantity. The suggested quantities are based on an inventory sufficient for maintaining 25 RT-6613 Series Transmissions.

Service Kits and Assemblies available for the RT-6613 Series

Page	Sym.	Part #	Description	Stock Qty.
41	K	K-1712	Adapter plate kit	—
23	E	A-219	Adjusting arm assembly	1
41	I	K-2075	Brake kit TCB-6	—
41	I	K-2074	Brake kit TCB-8	—
23	C	S-1321	Case assembly	1
23	—	S-1085	Clutch housing assembly #1	1
23	—	A-3711	Clutch housing assembly #2	1
33	V	K-1431	Cylinder kit range	1
33	W	K-1434	Cylinder kit intermediate	1
—	—	K-2110	Gasket kit	6
31	R	S-1334	Idler shaft assembly	2
31	Q	S-1255	Input shaft assembly <i>pull</i>	5
31	L	S-1250	Input shaft assembly <i>push</i>	5
31	M	S-1253	Input shaft assembly <i>pull</i>	5
31	N	S-1251	Input shaft assembly <i>push</i>	5
31	O	S-1252	Input shaft assembly <i>push</i>	5
31	P	S-1254	Input shaft assembly <i>push</i>	5
35	q	S-1405	Intermediate case assembly	1
25	H	K-2101	Isolator lever kit <i>low</i>	—
25	J	K-2102	Isolator lever kit <i>high</i>	—

Page	Sym.	Part #	Description	Stock Qty.
27-29-31	K	K-2018	M/S O/D update kit	1
27-29-31	L	K-2019	M/S 4th update kit	1
33	S	K-1450	"O" ring kit range	8
33	T	K-1451	"O" ring kit intermediate	8
33	U	K-1447	"O" ring kit all	8
33	X	K-1457	"O" ring kit valve	8
39	▼	K-1932	Oil seal kit	6
25	Ⓢ	K-2003	Pin and bushing kit	1
39	n	S-1428	Rear bearing cover assembly <i>mechanical and magnetic</i>	2
39	h	S-1538	Rear bearing cover assembly <i>mechanical and magnetic</i>	2
39	Ⓢ	S-1563	Rear bearing cover assembly <i>mechanical and magnetic</i>	2
39	ℰ	S-1565	Rear bearing cover assembly <i>mechanical only</i>	2
39	i	K-1938	Rear bearing cover assembly <i>mechanical only</i>	2

Page	Sym.	Part #	Description	Stock Qty.
39	c	S-1301	Rear housing assembly	1
39	d	S-1300	Rear housing assembly	1
39	e	S-1001	Rear housing assembly	1
23	D	A-2268	Release yoke kit	1
41	h	K-2076	Repair kit brake TCB	1
21	B	K-1698	Repair kit filter	4
19	≤	K-2055	Repair kit Roadranger® valve (A-5315 right hand drive vehicle)	4
19	f	K-1922	Repair kit Roadranger valve	4
19	A	K-1550	Repair kit selector valve	6
21	ε	K-1699	Repair kit slave valve	4
21	Π	K-1935	Repair kit slave valve A-5000	4
21	÷	K-1613	Replacement kit cap (A4688)	1
21	∕	S-1516	Replacement kit cap (A-5000)	1
25	I	K-1630	Replacement kit lever housing (std)	1
25	N	K-1476	Replacement kit lever housing	1
25	O	K-1631	Replacement kit lever housing	1

Page	Sym.	Part #	Description	Stock Qty.
35-39	Z	K-1019	Replacement kit oil trough	1
39	b	K-1037	Replacement kit reservior	1
37	⌘	K-1948	Replacement kit sliding clutch	1
11-33	f	K-2030	Roadranger valve conversion kit	—
27	G	S-1442	Shift bar housing assembly	1
27	H	S-1476	Shift bar housing assembly complete	1
25	ø	S-1019	Shift lever assembly	1
25	†	K-1584	Shift lever kit high	1
13-17	⌘	K-2079	Sleeve kit	1
—	φ	K-1513	Small parts kit	2
37	Y	K-1945	Synchronizer kit	4
37	⌘	K-1946	Synchronizer kit	4
13	τ	K-1735	Valve conversion kit (19470)	—
13	ς	K-1963	Valve conversion kit (A-5000)	—

Purposes of Symbols

A. To denote the parts included in a kit or an assembly.

B. Used for notes.

Kit and Assembly Identification for Service Parts

A — Denotes Production Assemblies

K — Denotes Service Kit (Unassembled)

S — Denotes Service Assembly

RT-6613 is the RT-6613 Front and the RT-6613, RTO-6613, Auxiliary.
RTO-6613 is the RTO-6613 Front and the RT-6613, RTO-6613, Auxiliary.

Basic Rebuild Kit

Sym.	Part #	Description	Stock Qty.
::	K-1851	All RT-6613 Series	2

FOR ADDITIONAL LEVER/CONTROL INFORMATION PLEASE SEE LEVER/CONTROL ILLUSTRATED LIST FORM P-599

Cooling and Lubrication Systems**PTO Mounted Pump**

K-2036	Complete Oil Cooler Kit 6-Bolt Oil Pump
K-2037	Complete Oil Cooler Kit 8-Bolt Oil Pump
K-2035	Oil Cooler Installation Parts Kit (Less Pump)

Auxiliary Countershaft Mounted Pump

A-4679	Pump Assembly
K-1710	Collar Kit
K-1704	Pump Installation Kit
K-1700	Oil Cooler Kit
K-1703	Cooler Installation Kit
K-1707	Complete Lubrication Kit Drive Set

Illustrated Parts List Form No. P-528 available for Detailed and Illustrated Procedures

Sealants and Lubricants

Part #	Description	Stock Qty.
71204	0.5 CC carded tube — Fuller adhesive/sealant	12
71205	2 CC carded tube (shrink pack) Fuller sealant	12
71206	4 CC Fuller silicone lubricant	12
71203	8 oz. Fuller silicone lubricant	1

Operating Labels and Instructions

English	French	
17011	19046	Shift diagram label TCB-6 — TCB-8
19303	19681	Shift label RT <i>with A-4490 valve</i>
19304	19682	Shift label RTO <i>with A-4488 valve</i>
21756		Shift label RT <i>with A-5015, A-5315 valve</i>
21817		Shift label RTO <i>with A-5015, A-5315 valve</i>
18803		Range shift warning label
52090	52082	Drivers instructions
71004		Instruction letter TCB-6 — TCB-8

Maintenance and Repair

RT-6613 Series Service Manual — Form Number 175

Every effort has been made to ensure the accuracy of all information in this brochure. **However, Eaton Transmission Division makes no expressed or implied warranty or representation based on the enclosed information.** Any errors or omissions may be reported to Marketing Communications, Eaton Transmission Division, P.O. Box 4013, Kalamazoo, MI 49003.

CLUTCH HOUSING CHART

6

MODEL SERIES	STANDARD HOUSING							
	SAE NO. 1				SAE NO. 2			
	ALUMINUM		IRON		ALUMINUM		IRON	
	TYPE	PART NO.	TYPE	PART NO.	TYPE	PART NO.	TYPE	PART NO.
			★	S-1085			★	A-3711
			△	A-5052				
			Weight 71 Lbs.				Weight 64 Lbs.	
	NODAL MOUNT #1						NODAL MOUNT #2	
	SYMMETRICAL				NON-SYMMETRICAL		NON-SYMMETRICAL	
	ALUMINUM		IRON		IRON		IRON	
	TYPE	PART NO.	TYPE	PART NO.	TYPE	PART NO.	TYPE	PART NO.
		≠	A-5067			★	A-3609	
						△	A-4577	
						Weight 82 Lbs.		

600
6600
8609 ①
7608LL

SYMBOL CODE, CLUTCH PEDAL SHAFT CONFIGURATION

△ Below Centerline Pull

★ Above Centerline Pull and Below Centerline Push

≠ Above and Below Centerline Pull

① 8609 Transmission Not Configured for Push Type Clutch

Cut 6932-3/88

CLUTCH HOUSING TERMS

SAE #1 & SAE #2 denotes clutch housing size. SEE FIG. 1

SAE SIZE NO.	A PILOT DIAMETER	B OUTSIDE DIAMETER
1	20- ¹ / ₈	21- ³ / ₄
2	17- ⁵ / ₈	19- ¹ / ₄

	C BOLT CIRCLE	CAPSCREW	
		QTY.	SIZE
1	20- ⁷ / ₈	12	⁷ / ₁₆ -14
2	18- ³ / ₈	12	³ / ₈ -16

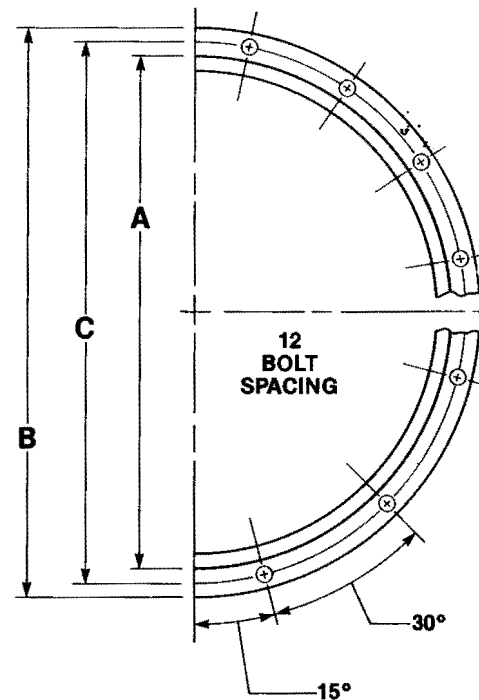


FIG. 1

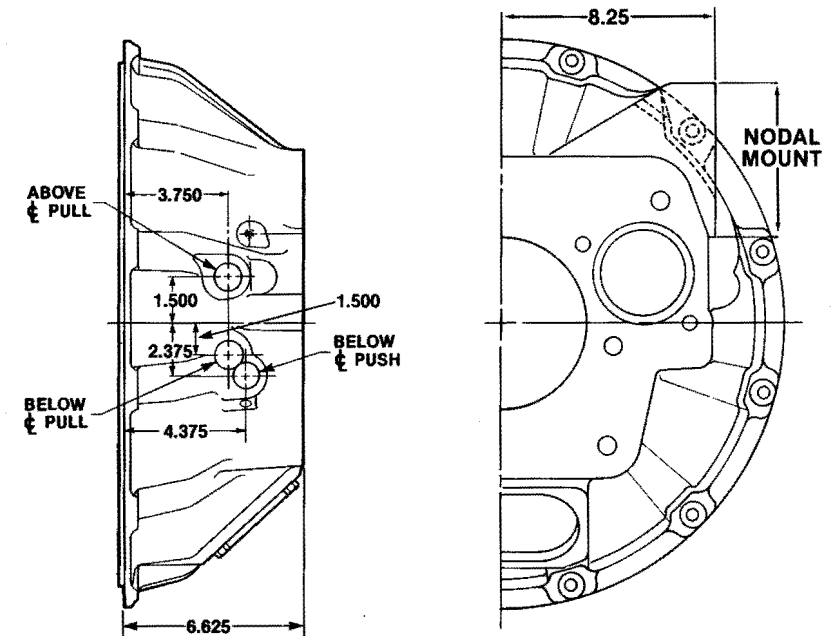


FIG. 2

NODAL MOUNT - Denotes side mounting pads used for support of transmission and engine.

Symmetrical - Denotes symmetrical bolt mounting pattern of nodal mount. SEE FIG. 3.

Non symmetrical - Denotes non symmetrical bolt mounting pattern of nodal mount. SEE FIG. 4 & 5.

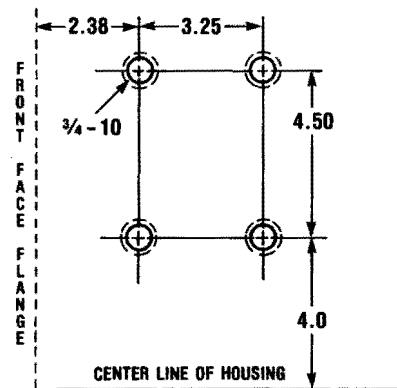


FIG. 3

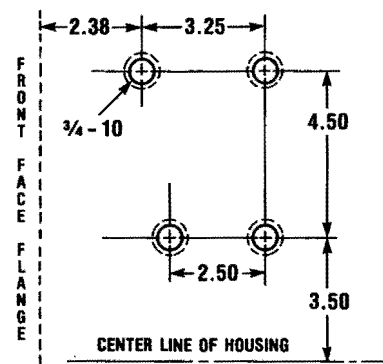


FIG. 4

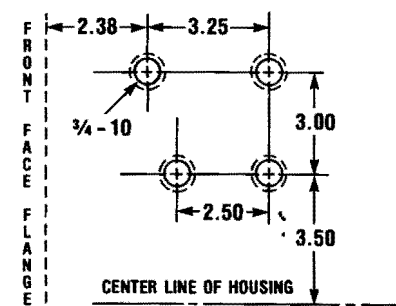
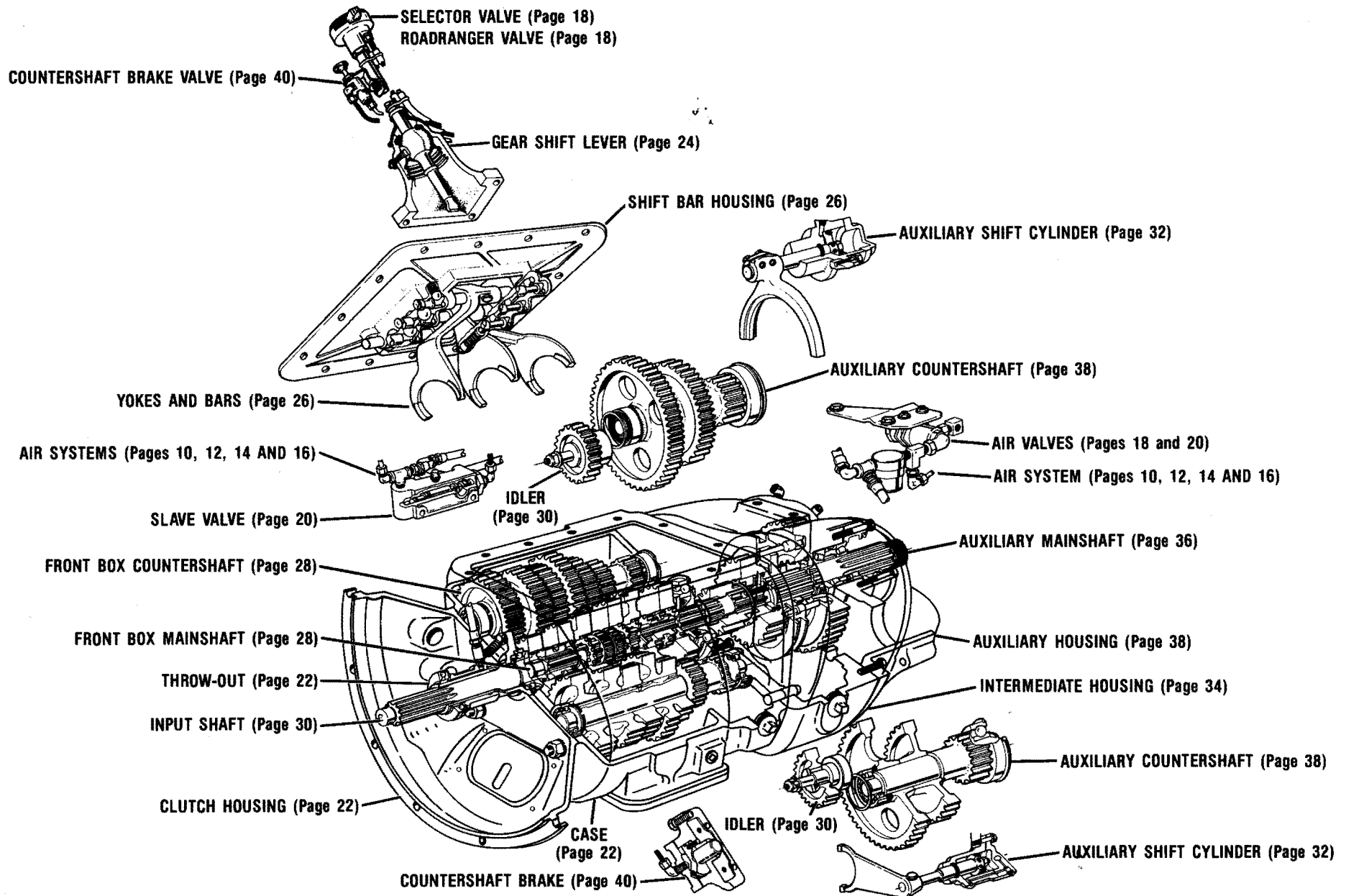


FIG. 5

ILLUSTRATION OF A TYPICAL FULLER TWIN-COUNTERSHAFT TRANSMISSION



Cut 6917-5/88

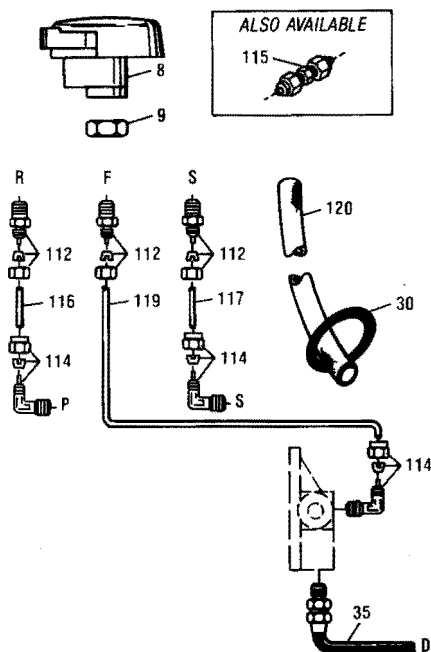
INDEX FOR ILLUSTRATION

DESCRIPTION	PAGE NO.
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Air Systems – Selector Valve	Pages 10-12
Air Valves	Pages 18-20
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Auxiliary Housing	Page 38
Auxiliary Mainshaft	Page 36
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Selector Valve	Page 18
Shift Bar Housing	Page 26
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Throw-Out	Page 22
Yokes and Bars	Page 26

AIR SYSTEMS

10

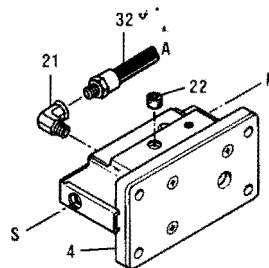
AIR SYSTEM SELECTOR VALVE A-4488 A-4490



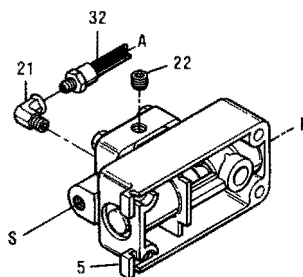
Cut 6007-6/88

AIR SYSTEM RANGE

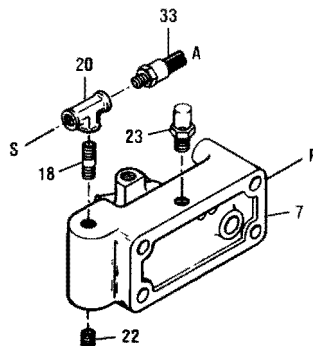
19470 VALVE



A-5000 VALVE

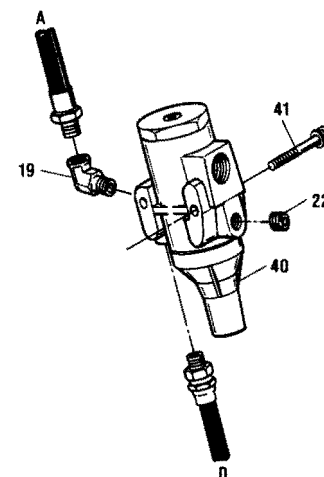


A-4688 VALVE



Cut 6020D-5/88

REGULATOR-FILTER ASSEMBLY A-4740



Cut 6038G-1/84

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
4		19470	Slave valve assembly		4
5		A-5000	Slave Valve Assembly		4
7		A-3991	Slave valve assembly <i>replaced by A-4688</i>		—
or		A-4688	Slave valve assembly		4
8		A-4488	Selector valve (RTO)		4
or		A-4490	Selector valve (RT)		4
9		X-9-1001	Nut 5/8"-11		—
12		84001	Connector assembly 1/16" pipe	Q	—
or		82501	Connector 1/16" pipe	Q	—
and		83501	Grip nut	Q	—
and		83001	Compression sleeve	Q	—
14		85002	Elbow assembly 1/8" pipe	Q	—
or		84502	Elbow 1/8" pipe	Q	—
and		83501	Grip nut	Q	—
and		83001	Compression sleeve	Q	—
15		84101	Connector 1/8" nylon tubing	Q	—
or		NPN	Body <i>order 84101</i>	Q	—
and		83501	Grip nut	Q	—
and		83001	Compression sleeve	Q	—
16		X-9-802	Nut		—
18		12769	Nipple 1/8"	B	—
19		12880	Street ell 1/8"		—
20		12881	Tee 1/8"	B	—
or		21086	Branch tee	B	—
21		12845	Street ell 1/8"		—
22		X-12-208	Plug 1/8"		—
23		7935	Breather		—
25		68526	Nylon tubing white 50'	Q	—
26		82013	Nylon tubing black 50'	Q	—
27		80000	Sheathing 50'	Q	—

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
30		13571	"O" ring clamp	f	—
32		55535	Hose 19" <i>replaced by 55507</i>		—
or		55507	Hose 20"	f	1
33		55535	Hose 19" <i>replaced by 55507</i>		—
or		55507	Hose 20"	f	1
35		55527	Hose 15"		1
40		A-4740	Filter - regular assembly		4
41		X-8S-412	Capscrew 1/4"-20 x 2-1/4" <i>replaced by X-8C-412</i>		—
or		X-8C-412	Capscrew 1/4"-20 x 2 1/4"		—
112		84003	Connector assembly 1/16" pipe	f ♂	10
or		82503	Connector 1/16" pipe	♂	—
or		83502	Grip nut	♂	—
or		83002	Compression sleeve	♂	—
113		84004	Connector assembly 1/8" pipe	f ♂	10
or		82504	Connector 1/8" pipe	♂	—
or		83502	Grip nut	♂	—
or		83002	Compression sleeve	♂	—
114		85001	Elbow assembly 1/8" pipe	f ♂	10
or		84501	Elbow 1/8" pipe	♂	—
or		83502	Grip nut	♂	—
or		83002	Compression sleeve	♂	—
115		84003	Connector assembly 5/32" tube	♂	10
or		82503	Connector 5/32" tube	♂	—
or		83502	Grip nut	♂	—
or		83002	Compression sleeve	♂	—
116		75120	Nylon tubing 5/32" red 50' ("S" Port)	f ♂	1
117		75320	Nylon tubing 5/32" black 50' ("P" Port)	f ♂	1
119		75720	Nylon tubing 5/32" blue 50' ("SP" Port)	♂	1
120		80120	Sheathing black 50'	f ♂	1
121		75920	Nylon tubing 5/32" brown 50' (exhaust line)	♂	1

PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
K-2030	Roadranger valve conversion kit (A-5015) <i>also see page 33</i>	f	@

B THE 12881 TEE AND EITHER THE 3230 OR THE 12769 NIPPLE ARE REPLACED WITH THE 21086 BRANCH TEE WHEN THE 19470 OR THE A-5000 VALVE IS USED.

♂ USE IN SETS FOR 5/32" TUBING

Q 1/8" TUBING AND FITTINGS REPLACED BY 5/32" TUBING AND FITTINGS

@ SEE PAGES 2 AND 3 FOR STOCKING QUANTITY

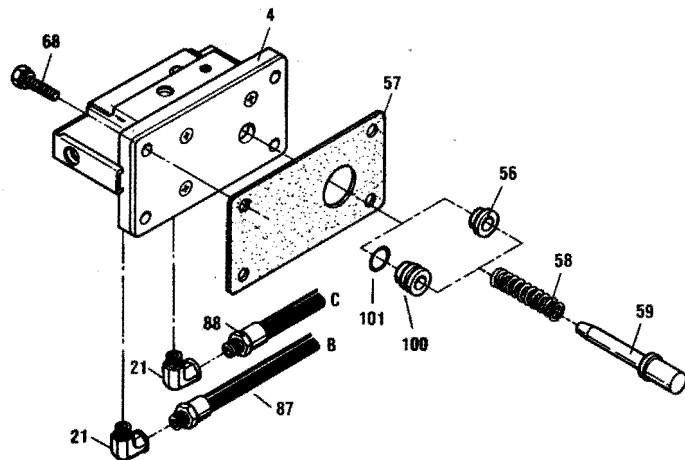
FOR COMPLETE LISTING OF HOSES, TUBING, AND FITTINGS PLEASE SEE SUPER PARTS BOOK FORM P-583

AIR SYSTEMS

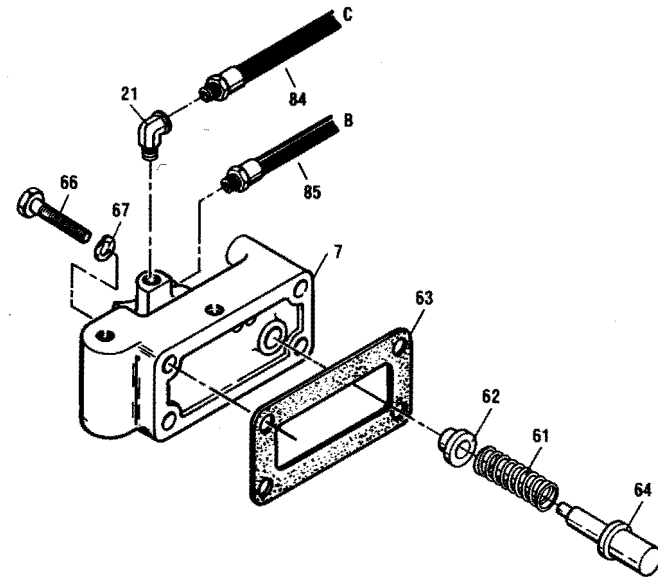
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AIR SYSTEM RANGE

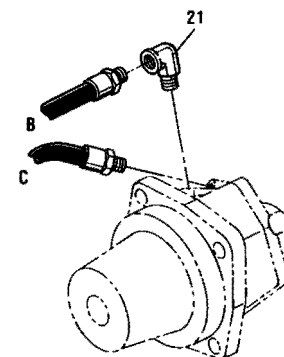
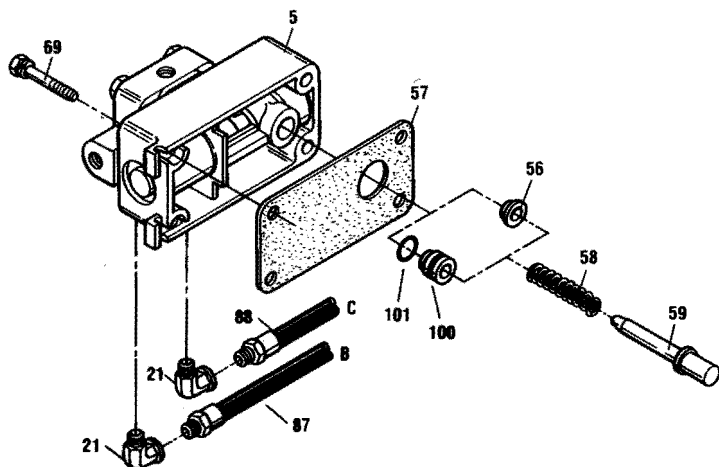
19470 VALVE



A-4688 VALVE



A-5000 VALVE



Cur 6076C-7/88

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
4		19470	Slave valve assembly	τ	4
5		A-5000	Slave valve assembly	ς	4
7		A-3991	Slave valve assembly		—
			<i>replaced by A-4688</i>		—
or		A-4688	Slave valve assembly		4
21		12845	Street ell 1/8"	τς	—
56		19570	Sleeve		1
57		19481	Gasket	τς	—
58		19572	Spring <i>replaced by 21268</i>		—
or		21268	Spring	τςφ	1
59		19571	Pin <i>replaced by 20649</i>		—
or		20649	Pin	τςφ	1
61		6392	Spring		1
62		12571	Sleeve		—

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
63		15758	Gasket		—
64		15102	Pin		1
66		X-8L-411	Capscrew 1/4"-20 × 1-3/4"		—
			<i>replaced by A-8L-411</i>		—
or		X-8L-411	Capscrew 1/4"-20 × 1-3/4"		—
67		X-3-400	Lockwasher 1/4"		—
68		X-8C-401	Capscrew 1/4"-20 × 1-1/8"		—
69		X-8C-411	Capscrew 1/4"-20 × 1-3/4"		—
84		55527	Hose 15"		1
85		55507	Hose 20"		1
87		55525	Hose 17"		1
88		55506	Hose 18"		1
100		22034	Sleeve	τςφ	1
101		14142	"O" ring	τςφ	1

PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
K-2079	Sleeve kit	τ	@

φ Small parts kit K-1513

τ VALVE CONVERSION KIT K-1735

REPLACES A-4688 SLAVE VALVE WITH 19470
INCLUDES ALL CONVERSION MATERIAL AND
INSTRUCTIONS

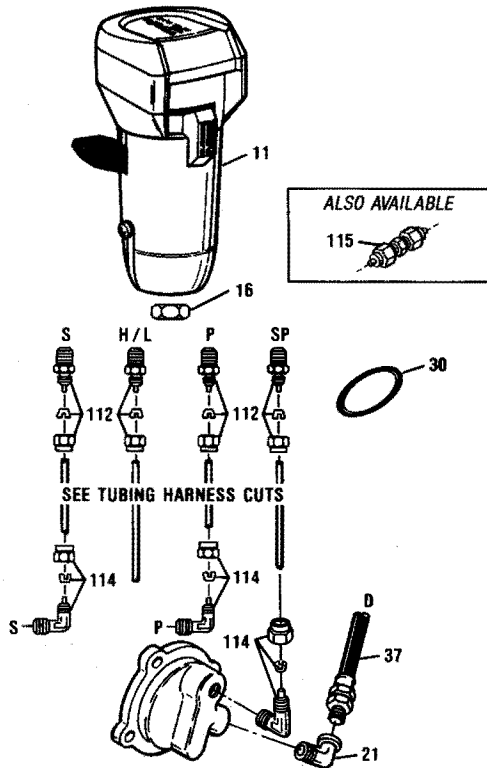
ς VALVE CONVERSION KIT K-1963

REPLACES A-4688 SLAVE VALVE WITH A-5000
INCLUDES ALL CONVERSION MATERIAL AND
INSTRUCTIONS.

AIR SYSTEMS - ROADRANGER VALVE

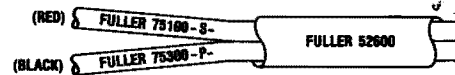
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AIR SYSTEM ROADRANGER VALVE



Cut 6013K-3/88

TUBING HARNESS 52601 50'



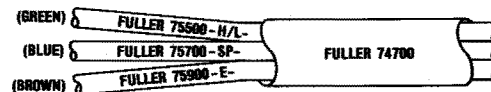
Cut 8018-3/88

TUBING HARNESS 52701 50'



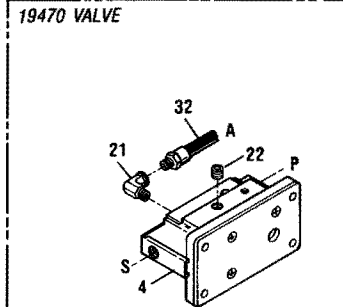
Cut 8018A-3/88

TUBING HARNESS 74701 50'

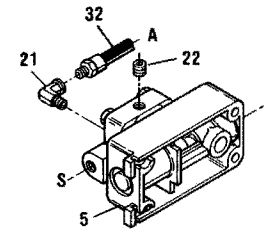


Cut 8018C-3/88

AIR SYSTEM RANGE

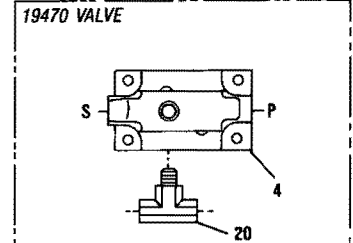


A-5000 VALVE

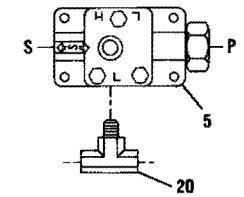


Cut 6020F-3/88

AIR SYSTEM REDUCTION

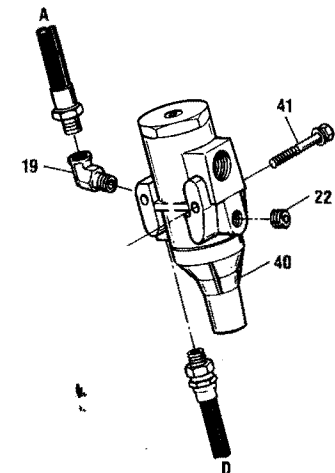


A-5000 VALVE



Cut 6019G-4/87

REGULATOR-FILTER ASSEMBLY A-4740



Cut 6038G-1/84

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
4		19470	Slave valve assembly		4
5		A-5000	Slave valve assembly		4
11		A-5015	Roadranger valve assembly		4
or		A-5044	Roadranger valve assembly	»	4
or		A-5315	Roadranger valve assembly	≡	4
16		X-9-802	Nut		—
19		12880	Street ell 1/8"		—
20		21086	Branch tee 1/8"		—
21		12845	Street ell 1/8"		—
22		X-12-208	Plug 1/8"		—
30		13571	"O" ring clamp		—
32		55507	Hose 20"		—
37		55527	Hose 15"		—
40		A-4740	Filter - regular assembly		4
41		X-8C-412	Capscrew 1/4"-20 x 2-1/4"		—

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
112		84003	Connector assembly 1/16" pipe		10
or		82503	Connector 1/16" pipe		—
or		83502	Grip nut		—
or		83002	Compression sleeve		—
114		85001	Elbow assembly 1/8" pipe		10
or		84501	Elbow 1/8" pipe		—
or		83502	Grip nut		—
or		83002	Compression sleeve		—
115		84003	Connector assembly 5/32" tube		10
or		82503	Connector 5/32" tube		—
or		83502	Grip nut		—
or		83002	Compression sleeve		—
116		75120	Nylon tubing 5/32" red 50'		1
			("S" Port)		1
117		75320	Nylon tubing 5/32" black 50'		1
			("P" Port)		1
118		75520	Nylon tubing 5/32" green 50'		1
			("H/L" Port)		1
119		75720	Nylon tubing 5/32" blue 50'		1
			("SP" Port)		1
120		80120	Sheathing 50'		1
121		75920	Nylon tubing 5/32" brown 50'		1
			(exhaust line)		1

» WITH SHIFT DIAGRAM MEDALLION

≡ FOR VALVE LOCATED TO LEFT OF DRIVER

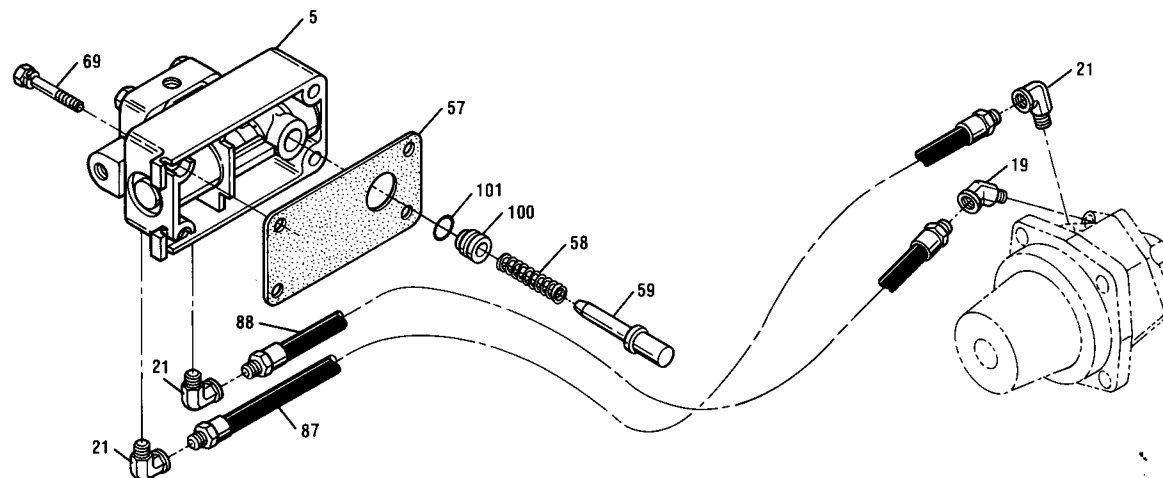
@SEE PAGE 2 AND 3 FOR STOCKING QUANTITY

FOR COMPLETE LISTING OF HOSES, TUBING, AND FITTINGS PLEASE SEE SUPER PARTS BOOK FORM P-583

16

[illegible]

AIR SYSTEM RANGE A-5000 VALVE



906 W. Gore St. Orlando, FL 32805 • 1 (877) 776-4600 / (407) 872-1901 • parts@eprogear.com • <https://www.pgtruckparts.com>

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
4		19470	Slave valve assembly		4
5		A-5000	Slave valve assembly		4
19		12880	Street ell 1/8"		—
21		12845	Street ell 1/8"		—
57		19481	Gasket		—
58		21268	Spring	φ	1
59		20649	Pin	φ	1

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
68		X-8C-401	Capscrew 1/4"-20 × 1-1/8"		—
69		X-8C-411	Capscrew 1/4"-20 × 1-1/4"		—
87		55507	Hose 20"		1
88		55506	Hose 18"		1
100		22034	Sleeve	φ 1/2	—
101		14142	"O" ring	φ 1/2	1

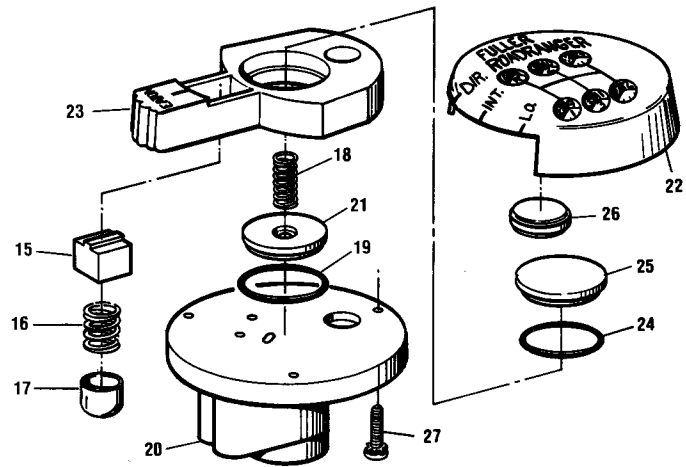
PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
K-2079	Sleeve kit	1/2	@

φ Small parts kit K-1513

AIR CONTROLS

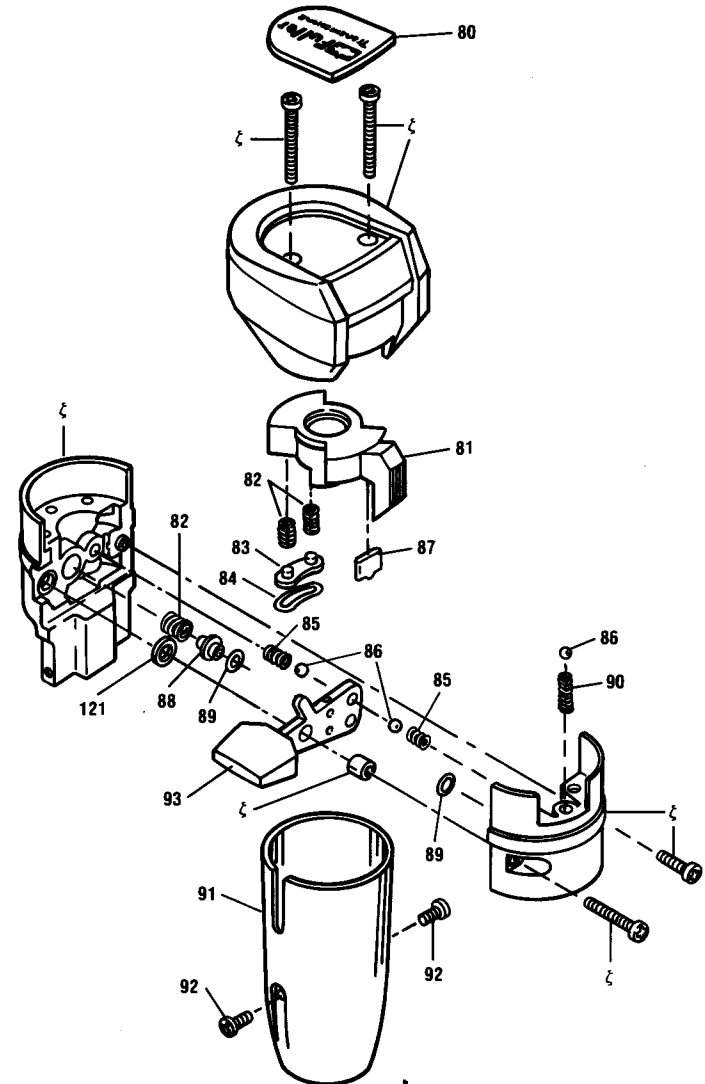
18

SELECTOR VALVE ASSEMBLY A-4488 A-4490



Cut 6151A-1/84

ROADRANGER VALVE ASSEMBLY



Cut 6147G-5/87

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
15	1	17922	Dentent	ζA	—
16	1	17918	Spring	ζA	—
17	1	17920	Retainer	ζA	—
18	1	17919	Spring	ζA	—
19	1	17923	"O" ring	ζA	—
20	1	18143	Valve body	ζ	—
21	1	18397	Seal	ζA	—
22	1	18623	Cover (RTO)		—
	or 1	18625	Cover (RT)		—
23	1	18660	Actuator	ζA	—
24	1	18661	"O" ring	ζA	—
25	1	18662	Retainer	ζA	—
26	1	18714	Seat	ζA	—
27	1	X-8S-154	Screw replaced by X-13-214	ζ	—
	or 3	X-13-214	Screw 8-32 x 11/16"	ζ	—

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
80	1	20107	Medallion RT-RTO		—
	or 1	21818	Medallion RT	»	—
	or 1	21820	Medallion RTO	»	—
	or 1	21819	Medallion RT	≡»	—
	or 1	21821	Medallion RTO	≡»	—
81	1	20456	Actuator (A-5015)	ζf	—
	or 1	21809	Actuator (A-5315)	ζ≤≡	—
82	3	20109	Spring	ζ≤f	—
83	1	20105	Retainer	ζ≤f	—
84	1	20106	Seal	ζ≤f	—
85	2	20110	Spring	ζ≤f	—
86	3	20102	Ball 5/32"	ζ≤f	—
87	1	20174	Detent	ζ≤f	—
88	1	20103	Retainer	ζ≤f	—
89	1	20104	"O" ring	ζ≤f	—
90	1	20108	Spring	ζ≤f	—
91	1	20112	Cover		—
92	2	X-8-202	Screw		—
93	1	20496	Lever		1
121	1	22113	Wave washer	ζ≤f	—

PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
K-1550	Repair kit selector valve	A	@
K-1922	Repair kit Roadranger valve (A-5015)	f	@
K-2055	Repair kit Roadranger valve (A-5315 right hand drive vehicle)	≤	@

ζ NOT AVAILABLE SEPARATELY — ORDER KIT OR ASSEMBLY

≡ FOR VALVE LOCATED TO LEFT OF DRIVER

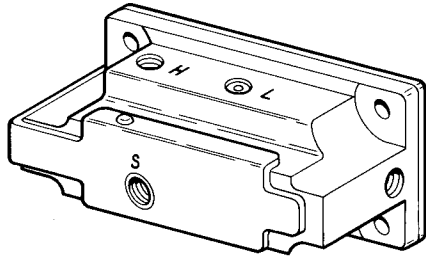
» WITH SHIFT DIAGRAM MEDALLION

@ SEE PAGES 2 AND 3 FOR STOCKING QUANTITY

AIR CONTROLS

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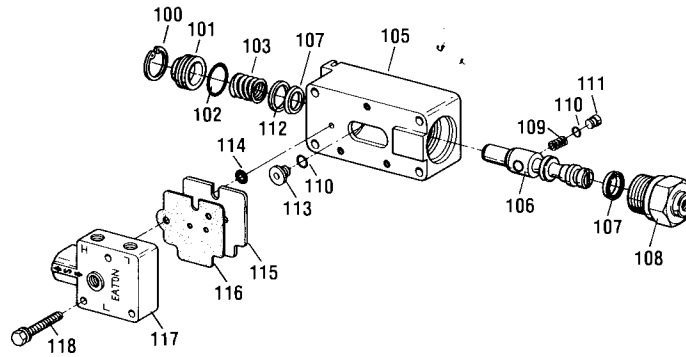
SLAVE VALVE ASSEMBLY 19470



REPLACE UNIT IF DEFECTIVE

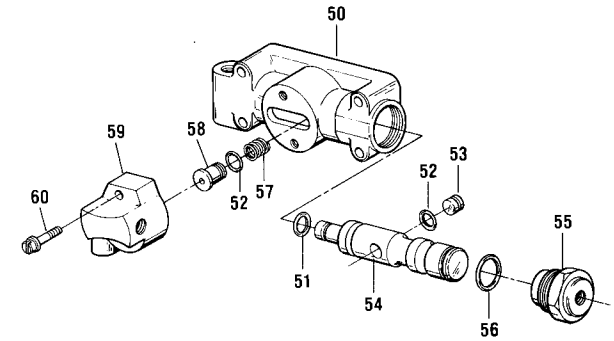
Cut 6161D-11/84

SLAVE VALVE ASSEMBLY A-5000



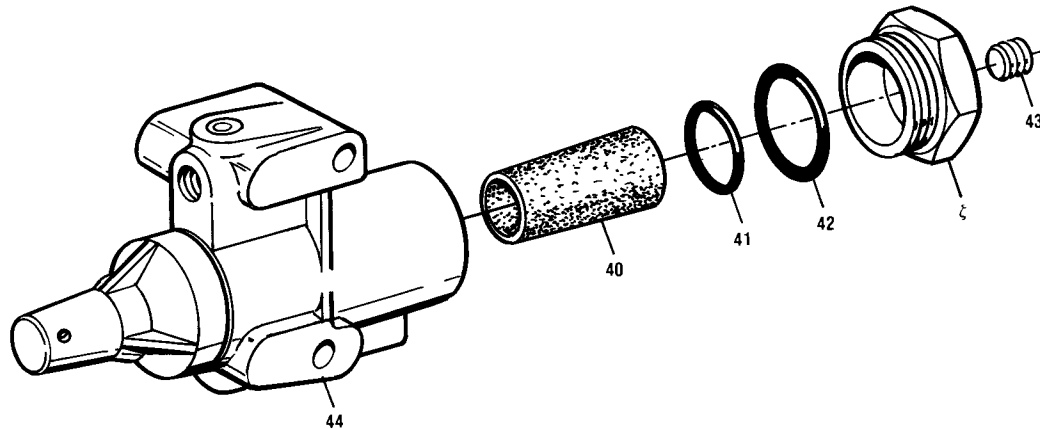
Cut 6162-6/84

SLAVE VALVE ASSEMBLY A-4688



Cut 6160-1/84

AIR FILTER REGULATOR VALVE ASSEMBLY A-4740



Cut 6141-3/86

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
40	1	19670	Element	ξ B	—
41	1	14345	"O" ring <i>replaced by 19953</i>	ξ	—
or	1	19953	"O" ring	ξ B	—
42	1	19671	"O" ring	ξ B	—
43	1	X-12-208	Pipe plug 1/8"	—	—
44	1	19600	Body assembly	ξ	—
50	1	19464	Slave valve housing	—	—
51	1	19461	"O" ring	ε	—
52	2	15114	"O" ring	ε	—
53	1	15128	Plug	ε	—
54	1	19463	Piston	1	—
55	1	15131	Cap <i>replaced by 20849</i>	—	—
or	1	20849	Cap	—	—
56	1	19462	"O" ring	ε	—
57	1	18709	Spring	ε	—
58	1	18708	Seal	ε	—
59	1	18707	Cap <i>order K-1613</i>	÷	@
60	2	X-8S-401	Capscrew 1/4"-20	÷	—

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
100	1	19793	Snap ring	ξ Π	—
101	1	20855	Plug	—	—
102	1	20875	"O" ring	ξ Π	—
103	1	20856	Spring	ξ Π	—
105	1	20850	Body ✓	ξ	—
106	1	20854	Piston	—	—
107	2	20858	U-Seal	ξ Π	—
108	1	20849	Cap	—	—
109	1	20860	Spring	ξ Π	—
110	2	15114	"O" ring	ξ Π	—
111	1	20859	Seal	ξ Π	—
112	1	20857	Washer	ξ Π	—
113	1	20861	Seal	ξ Π	—
114	1	20862	"O" ring	ξ Π	—
115	1	20853	Plate	✓	—
116	1	20852	Gasket	ξ Π ✓	—
117	1	20851	Cap	✓	—
118	3	X-8C-413	Capscrew 1/4"-20 × 1-1/2"	—	—

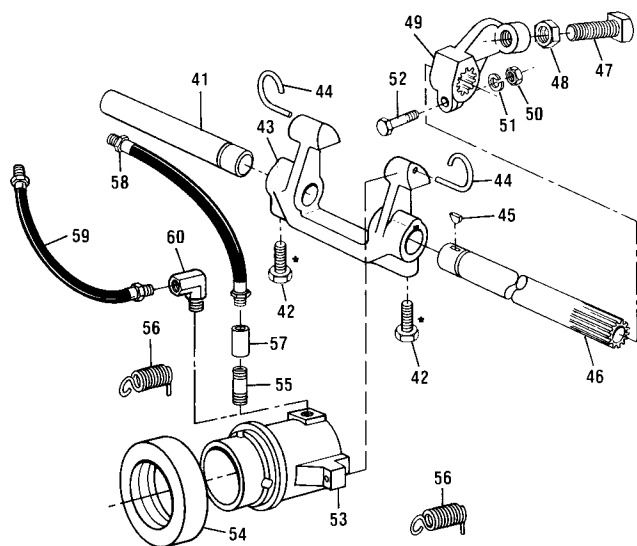
PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
K-1613	Replacement kit cap (A-4688)	÷	@
K-1698	Repair kit filter	B	@
K-1699	Repair kit slave valve (A-4688)	ε	@
K-1935	Repair kit slave valve (A5000)	Π	@
S-1516	Replacement assembly cap (A-5000)	✓	@

ξ NOT AVAILABLE SEPARATELY — ORDER
KIT OR ASSEMBLY

@ SEE PAGES 2 AND 3 FOR STOCKING QUANTITY

22

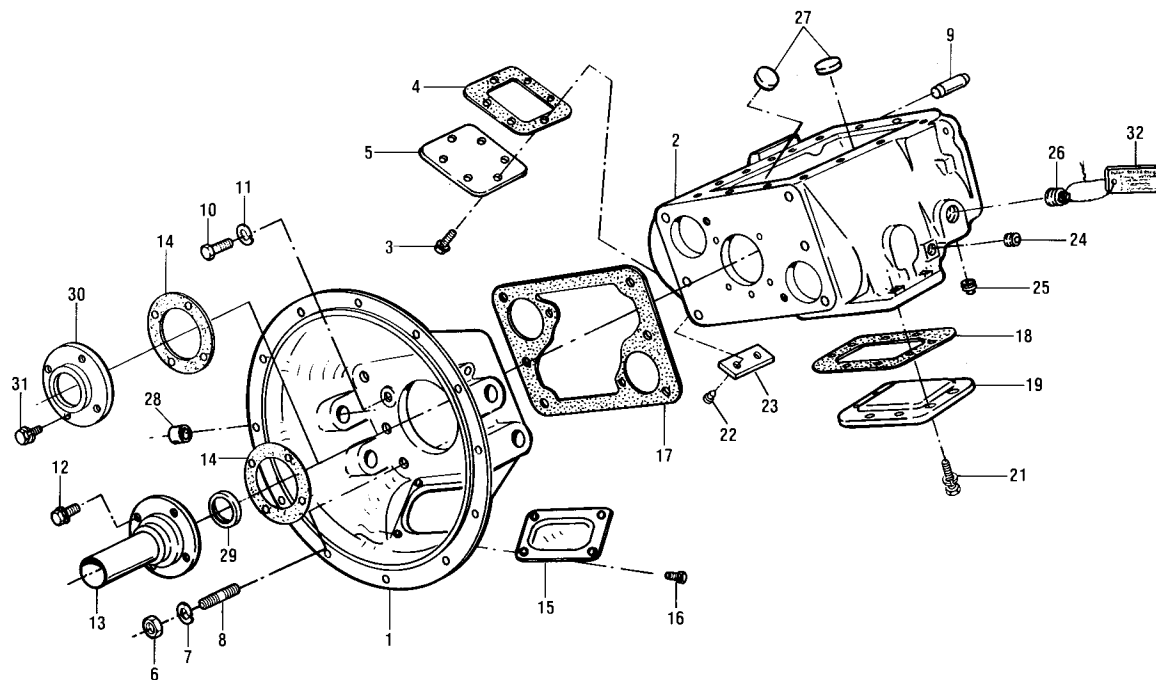
**RELEASE YOKE
ASSEMBLY
PUSH TYPE**



***Note: Use lockwire at these positions**

Cut 6200-4/83

MAIN HOUSING ASSEMBLY



Cut 6192A-4/86

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
1	1	A-3711	Clutch housing assembly #2 <i>push-pull</i>		@
or 1		S-1085	Clutch housing assembly #1 <i>push-pull</i>		@
			For additional clutch housing information see pages 6 and 7 Also see Super Parts Book Form P-583		
2	1	16800	Case order S-1321	C	@
3	6	X-8S-601	Capscrew 3/8"-16 × 3/4" <i>replaced by X-8-686</i>		—
or 6		X-8-686	Capscrew 3/8"-16 × 3/4"		—
4	1	1684	Gasket		—
5	1	14575	PTO cover		—
6	6	X-1-1000	Nut 5/8"-18		—
7	6	X-3-1000	Lockwasher 5/8"		—
8	6	1632	Stud		—
9	2	14334	Dowel		—
10	2	X-8-808	Capscrew 1/2"-13 × 1-1/4" <i>replaced by 4-X-8L-808</i>		—
or 2		X-8L-808	Capscrew 1/2"-13 × 1-1/4"		—
11	2	X-3-801	Lockwasher 1/2"		—
12	4	X-8-678	Capscrew 3/8"-16 × 1"		—
or 2		X-8L-604	Capscrew 3/8"-16 × 1-1/4" <i>push</i>		—
and 2		X-8-619	Capscrew 3/8"-16 × 1-1/4" <i>push</i>		—
and 2		X-3-600	Lockwasher 3/8" <i>push</i>		—
13	1	15020	Front bearing cover 1-3/4" shaft 6-7/32" long push	Ⓜ	2
or 1		16324	Front bearing cover 1-3/4" shaft 6-7/8" long push	Ⓜ	2
or 1		15491	Front bearing cover 1-1/2" shaft 5-25/32" long push	↔ Ⓜ	2
or 1		15647	Front bearing cover 1-1/2" shaft 7-1/4" long push	↔ Ⓜ	2
or 1		15727	Front bearing cover 1-1/2" shaft 6-7/32" long push	↔ Ⓜ	2
or 1		15265	Front bearing cover 1-1/2" shaft 7-1/16" long push	↔ Ⓜ	2
or 1		16277	Front bearing cover 1-1/2" shaft 6-1/4" long push	↔ Ⓜ	2
14	1	15059	Gasket		—
15	1	1565	Hand hole cover <i>push</i>		—
or 1		11453	Hand hole cover <i>pull</i>		—
16	4	X-8L-509	Capscrew 5/16"-18 × 1/12"		—
17	1	15060	Gasket		—
18	1	16929	Gasket		—

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
19	1	16596	PTO cover		—
21	8	X-8L-703	Capscrew 7/16"-14 × 1" <i>replaced by X-8-725</i>		—
or 8		X-8-724	Capscrew 7/16"-14 × 1" <i>replaced by X-8-725</i>		—
or 8		X-8-725	Capscrew 7/16"-14 × 7/8"		—
22	2	X-13-206	Self-tapping screw		—
23	1	57000	Name plate		—
24	1	X-12-800	Pipe plug 1/2"		—
25	1	X-12-1201	Pipe plug 3/4"		—
or 1		X-12-1202	Pipe plug 3/4" <i>magnetic</i>		—
26	1	X-12-2001	Pipe plug 1-1/4" <i>replaced by X-12-2002</i>		—
or 1		X-12-2002	Pipe plug 1-1/4"		—
27	2	14373	Magnet	C	10
28	4	12815	Bushing		4
29	1	16020	Oil Seal for 1-1/2" shaft		—
30	1	15019	Front bearing cover 1-3/4" shaft <i>pull</i>	Ⓜ	—
31	4	X-8L-604	Capscrew 3/8"-16 × 1-1/4" <i>pull</i>		—
32	1	19564	Lube instruction plate (<i>English</i>)		—
or 1		19683	Lube instruction plate (<i>French</i>)		—
41	1	14494	Pedal Shaft		1
42	2	X-7-603	Bolt 3/8"-24 × 1"	D	—
43	1	12817	Release yoke	D	1
44	2	9293	Spring		2
45	1	X-6-11	Key		—
46	1	1984	Pedal shaft (<i>std.</i>) #1 hsg.		1
or 1		1983	Pedal shaft (<i>std.</i>) #2 hsg.		1
47	1	X-8-802	Set screw 1/2"	E	—
48	1	X-9-800	Nut 1/2"	E	—
49	1	1966	Adjusting arm	E	1
50	1	X-1-600	Nut 3/8"	E	—
51	1	X-3-600	Lockwasher 3/8"	E	—
52	1	X-7-601	Bolt 3/8"-24 × 1-3/4"	E	—
53	1	8696	Bearing carrier (<i>std.</i>)		1
54	1	6168	Bearing carrier		4
55	1	3230	Nipple 1/8"		—
56	2	4425	Spring		4
57	1	3233	Pipe coupling 1/8"		—
58	1	51006	Hose assembly 8"		—
59	1	51016	Hose assembly 6-1/2"		—
60	1	12880	Elbow		—

PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
A-219	Adjusting arm assembly	E	@
A-2268	Release yoke kit	D	@
S-1321	Case assembly	C	@

↔ USES (16020) OIL SEAL ITEM 29

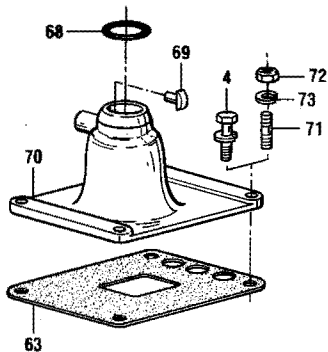
Ⓜ FOR ADDITIONAL FRONT BEARING COVER
INFORMATION SEE SUPER PARTS BOOK
FORM P-583

LEVER ASSEMBLY

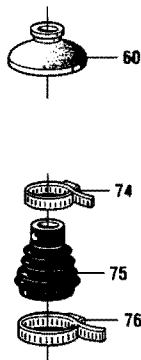
24

LEVER HOUSING ASSEMBLIES

LOW TOWER

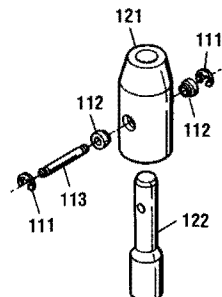


TOWER BOOTS



Cut 6296-8/85

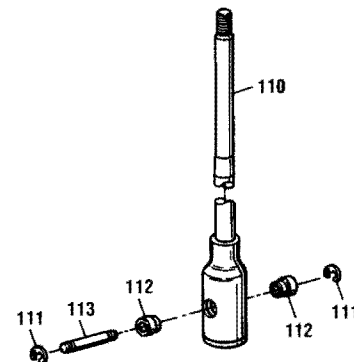
SERVICE ISOLATOR ASSEMBLY S-1607



Note: For installation instructions
See Letter of Instructions
Number L579

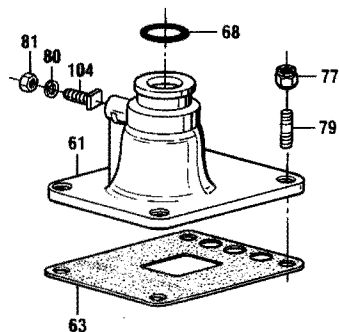
Cut 289A-3/88

ISOLATOR UPPER LEVER ASSEMBLY

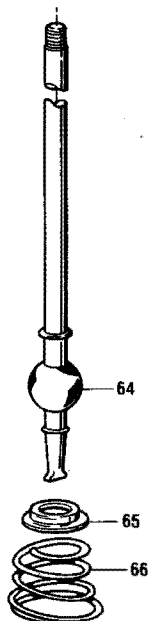


Cut 6289E-12/86

LOW TOWER
USE WITH 14795 BOOT

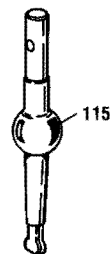


LEVER ASSEMBLY



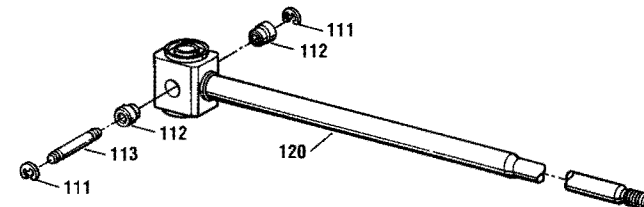
Cut 6292A-8/85

ISOLATOR LOWER LEVER



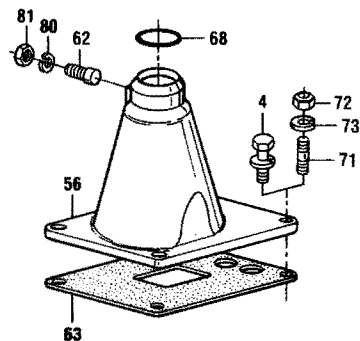
Cut 6289F-12/86

90° ISOLATOR UPPER LEVER ASSEMBLY



Cut 6289D-5/87

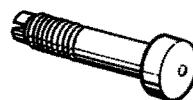
HIGH TOWER



Cut 6290-6/87

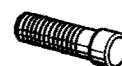
TOWER PINS

6541 (3/8")



Cut 6294-8/85

2271 (5/16")

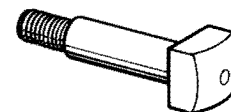


NOT USED IN
CURRENT
PRODUCTION

18299



14461



ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
4	4	X-8L-604	Capscrew 3/8"-16 × 1-1/4"		—
56	1	16398	Housing shift lever high <i>replaced by K-1630</i>		—
	or 1	17167	Housing shift lever high <i>order K-1630</i>	M	@
60	1	10427	Boot	∅ ↑	1
61	1	14456	Housing shift lever low <i>replaced by K-1631</i>		—
	or 1	17168	Housing shift lever low <i>order by K-1631</i>	0	@
62	1	6541	Pin		2
63	1	1642	Gasket <i>replaced by 19870</i>		—
	or 1	19870	Gasket	∅ MNO	—
64	1	17600	Gear shift lever (std.) low 21.69 long	∅	—
	or 1	18482	Gear shift lever (std.) high 35.12 long	↑	—
65	1	2538	Retainer	∅	1
66	1	2536	Spring	∅	—
68	1	17162	"O" ring (special)	∅ MNO	2
69	1	18229	Pin	∅ N	6
70	1	4530	Housing shift lever low <i>replaced by K-1476</i>		—
	or 1	17163	Housing shift lever low <i>replaced by K-1476</i>		—
	or 1	18298	Housing shift lever low <i>order K-1476</i>	∅ N	@

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
71	4	7467	Stud <i>replaced by 11934</i>		—
	or 4	11934	Stud		—
72	4	X-1-600	Nut 3/8"-24		—
73	4	X-3-600	Lockwasher 3/8"		—
74	1	14453	Clamp		—
75	1	14795	Boot		1
76	1	14454	Clamp		—
77	4	X-1-604	Nut 3/8"-24		—
79	4	14236	Stud		—
80	1	X-3-600	Lockwasher 3/8"		—
81	1	X-1-600	Nut 3/8"-24		—
104	1	14461	Pin		2
110	1	21247	Lever assembly (std.)		—
111	2	19124	"E" ring	∅ H 9	—
112	2	21246	Bushing	∅ H 9	—
113	1	21245	Pin	∅ H 9	—
115	1	21235	Lever (std.) low	H	—
	or 1	21236	Lever (std.) high	9	—
120	1	21767	90° Lever (std.)		—
121	1	A-5274	Isolator	ξ H 9	—
122	1	22120	Adapter	ξ	—

PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
K-1476	Replacement kit lever housing	N	@
K-1584	Shift lever kit high	↑	@
K-1630	Replacement kit lever housing (std.)	M	@
K-1631	Replacement kit lever housing	0	@
K-2003	Pin and bushing kit	∅	@
K-2101	Isolator lever kit low	H	@
K-2102	Isolator lever kit high	9	@
S-1019	Shift lever assembly	∅	@

ξ NOT AVAILABLE SEPARATELY — ORDER KIT OR ASSEMBLY

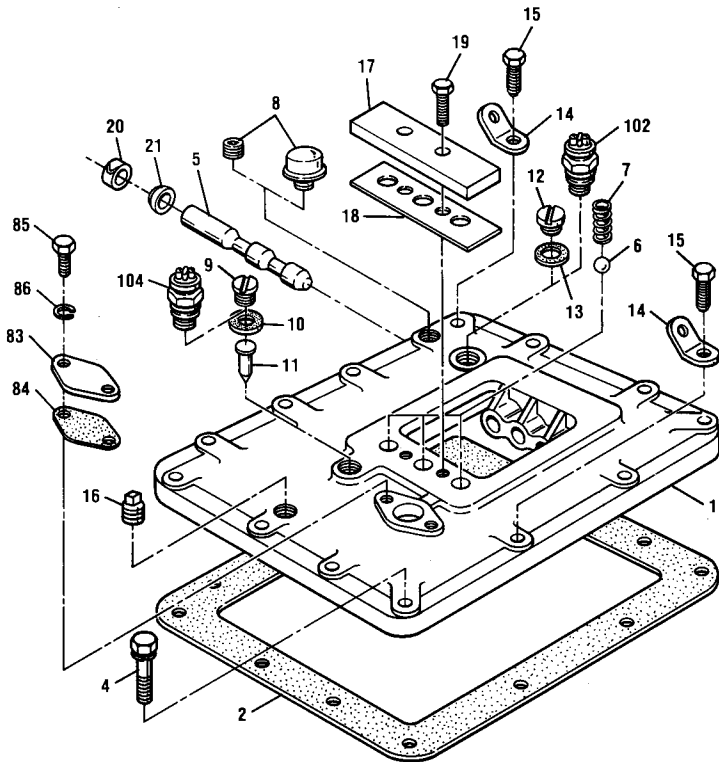
@ SEE PAGES 2 AND 3 FOR STOCKING QUANTITY

FOR ADDITIONAL LEVER/CONTROL INFORMATION PLEASE SEE LEVER/CONTROL ILLUSTRATED LIST FORM P-599

BAR HOUSING - YOKES AND BARS

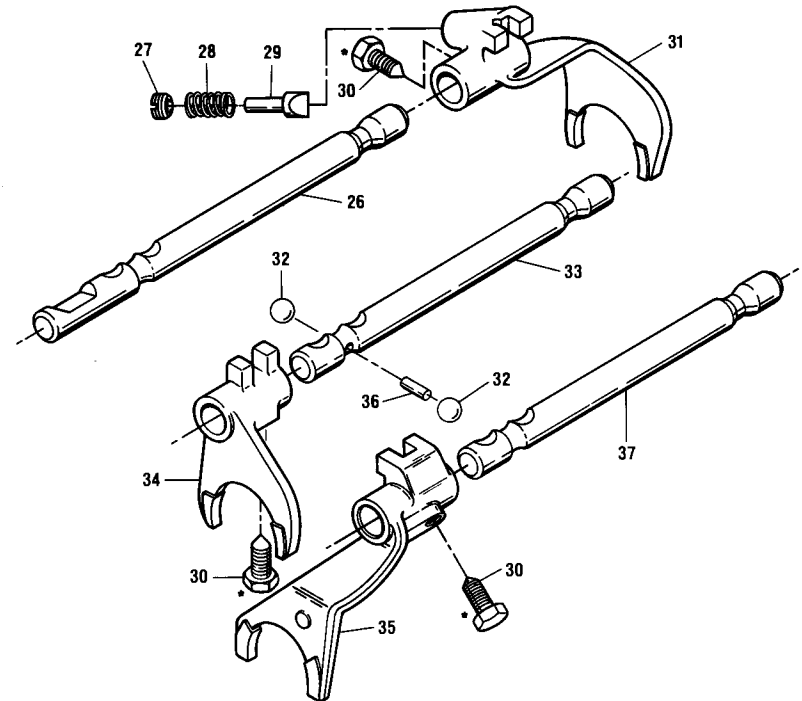
26

BAR HOUSING ASSEMBLY



Cut 6227-1/88

YOKES AND BARS



Cut 6282A-4/87

***Note: Use lockwire at
these positions.**

ITEM	QTY.	USED PART NO.	DESCRIPTION	SYM-BOL	STOCK QTY.
1	1	20311	Shift bar housing (std.) order S-1442 replaces the following housings 15888 - 18196 - 19447 - 22954 - S-1362 - S-1363 -	GH	—
2	1	15605	Gasket	GH	—
4	11	X-8L-604	Capscrew 3/8"-16 × 1-1/4"	H	—
5	1	17177	Air valve shaft	H	1
6	3	X-14-800	Steel ball 1/2"	φH	8
7	3	1064	Spring	φH	—
8	1	X-12-404	Pipe plug 1/4"	GH	—
or	1	15276	Breather	—	—
9	1	15917	Plug	GH	—
10	1	15900	Gasket	GH	—
11	1	15899	Pin	GH	—
12	1	17178	Plug <i>netural</i> switch hole	—	—
13	1	17179	Gasket	—	—
14	2	17105	Lifting eye <i>replaced by 20815</i>	—	—
or	2	20815	Lifting eye	—	—
15	2	X-8L-602	Capscrew 3/8"-16 × 1-1/2"	—	—
16	1	X-12-404	Pipe plug 1/4"	—	—
or	1	X-12-602	Pipe plug 3/8" <i>replaced by X-12-603</i>	—	—
or	1	X-12-603	Pipe plug 3/8"	—	—
17	1	15132	Spring cover	H	—
18	1	15133	Gasket	φH	—
19	2	X-8L-600	Capscrew 3/8"-16 × 1"	—	—

ITEM	QTY.	USED PART NO.	DESCRIPTION	SYM-BOL	STOCK QTY.
20	1	18217	Clip	Ψ	—
21	1	18218	Actuating ring	Ψ	—
26	1	15910	Yoke bar - reverse	H	2
27	1	8968	Plug	H	—
28	1	6392	Spring	φH	1
29	1	10019	Plunger	H	1
30	3	3220	Lock screw	H	—
31	1	15096	Shift yoke - reverse	H	2
32	2	X-14-1200	Steel ball 3/4"	H	6
33	1	15100	Yoke bar 2nd speed	H	2
34	1	15097	Shift yoke 2nd speed	H	2
35	1	16300	Shift yoke - direct	H_K_L	3
36	1	1634	Pin	φH	1
37	1	15101	Yoke bar - direct	H	2
83	1	20199	Cover	H	—
84	1	20209	Gasket	H	—
85	2	X-8-406	Capscrew 1/4"-20 × 3/4"	H	—
86	2	X-3-400	Lockwasher 1/4"	H	—
102	1	12639	Neutral light switch (N/O) <i>replaced by 22941</i>	—	—
or	1	22941	Neutral switch (N/O)	—	1
104	1	16830	Reverse light switch (N/C) <i>replaced by 22940</i>	—	—
or	1	22940	Reverse switch (N/C)	—	1

PART NO.	DESCRIPTION	SYM-BOL	STOCK QTY.
S-1442	Shift bar housing assembly	G	@
S-1476	Shift bar housing assembly <i>complete</i>	H	@

φ Small parts kit K-1513

Ψ ITEM 20 AND 21 MUST BE USED WITH 20311
BAR HOUSING TO ACTUATE NEUTRAL START
SWITCH

K K-2018 ALSO SEE PAGES 29 AND 31

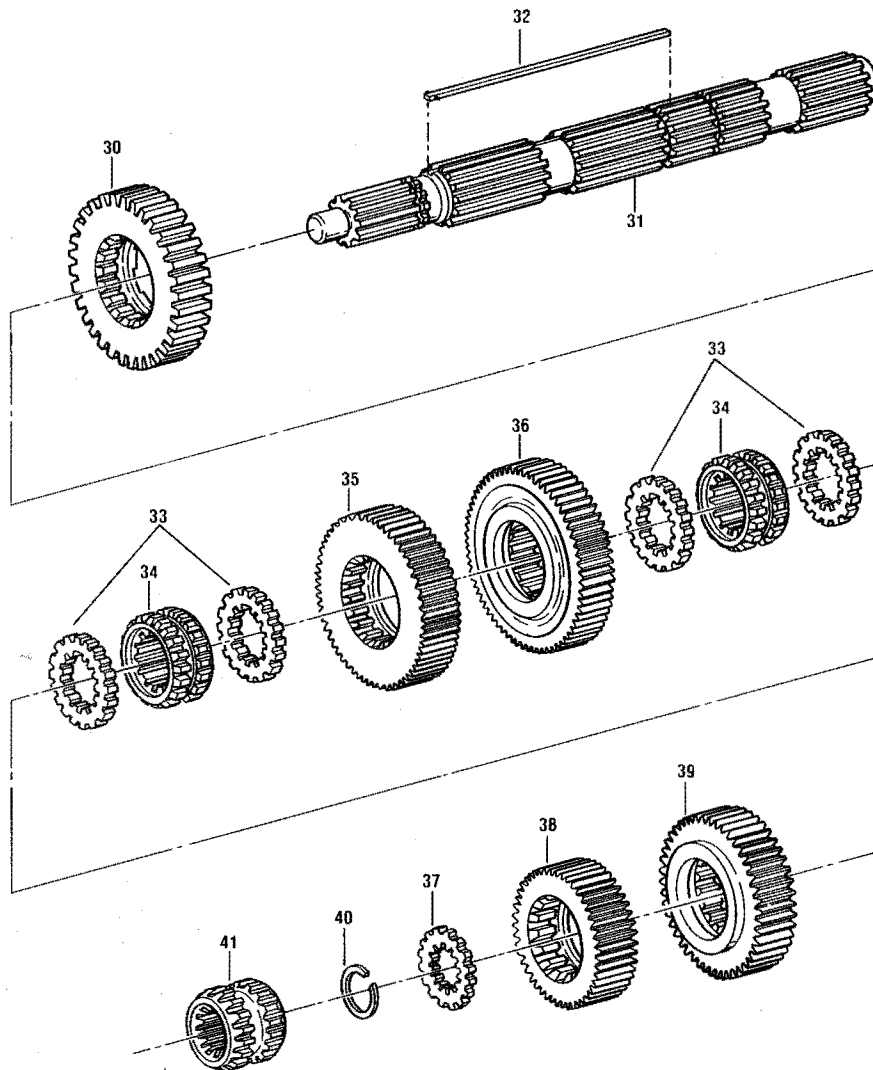
L K-2019 ALSO SEE PAGES 29 AND 31

@ SEE PAGES 2 AND 3 FOR STOCKING QUANTITY

MAINSHAFT - COUNTERSHAFT

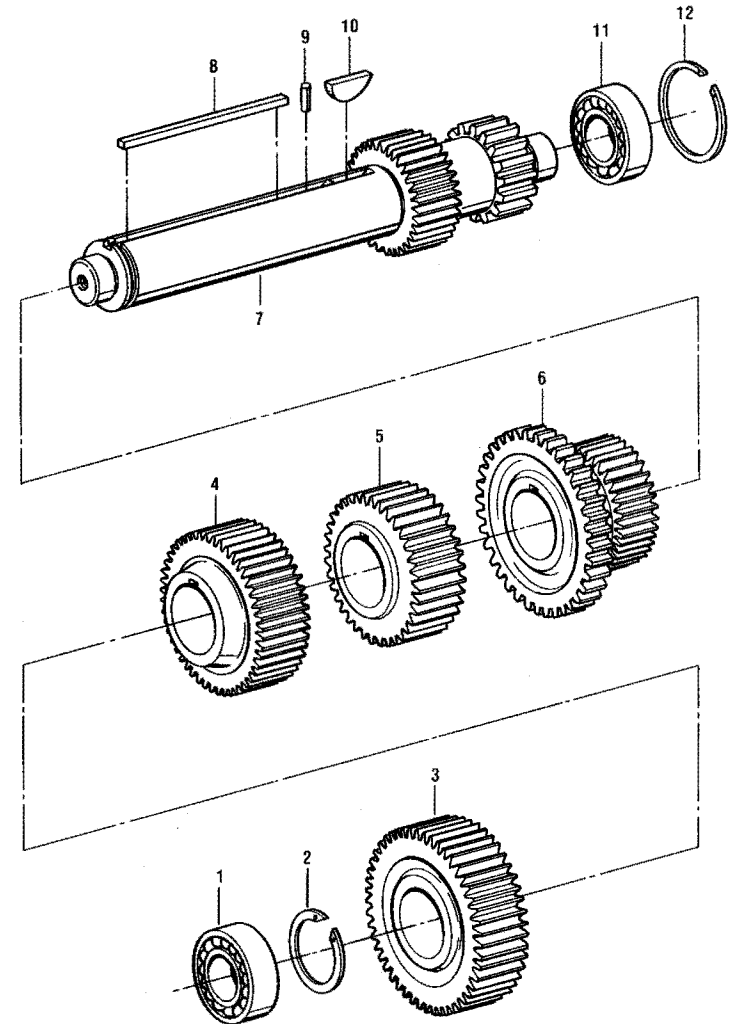
28

MAINSHAFT ASSEMBLY



Cut 6332-3/80

COUNTERSHAFT ASSEMBLY



Cut 6344-2/80

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
1	2	18657	Bearing	::	8
2	2	14286	Snap ring	φ	4
3	2	19210	Gear countershaft drive (RT)		6
or 2		19299	Gear countershaft drive (RTO)		6
4	2	19296	Gear countershaft 4th (RT)		6
or 2		19300	Gear countershaft O/D (RTO)		6
5	2	19211	Gear countershaft 3rd		6
6	2	19212	Gear countershaft PTO and 2nd		4
7	2	19209	Countershaft		4
8	2	16662	Key		2
9	2	62511	Roll pin		2
10	2	X-6-128	Key		2
11	2	18658	Bearing	::	8
12	2	15050	Snap ring	φ	4
30	1	16227	Gear mainshaft reverse		2
31	1	16805	Mainshaft		2
32	1	A-3990	Key and pin assembly (install with top up)		2

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
33	4	15446	Washer .259-.261 (orange)	φ	8
or		17259	Washer .264-.266 (purple)	φ	8
or		17260	Washer .269-.271 (yellow)	φ	8
or		17261	Washer .274-.276 (black)		8
or		17262	Washer .279-.281 (red)		8
34	2	16226	Sliding clutch		6
35	1	19206	Gear mainshaft 2nd		3
36	1	19205	Gear mainshaft 1st		3
37	1	15976	Washer .259-.261 (orange)		2
or		17434	Washer .263-.265 (purple)		2
or		17435	Washer .268-.270 (yellow)		2
or		17436	Washer .273-.275 (black)		2
or		17437	Washer .278-.280 (red)		2
or		21664	Washer .259-.261 (orange)	L ^h	2
or		21665	Washer .263-.265 (purple)	L ^h	2
or		21666	Washer .268-.270 (yellow)		2
or		21667	Washer .273-.275 (black)		2
or		21668	Washer .278-.280 (red)		2
38	1	19295	Gear mainshaft 4th (RT)		6
or 1		19298	Gear mainshaft O/D (RTO)		6
or 1		21663	Gear mainshaft 4th (RT)	K ^h	4
or 1		21670	Gear mainshaft O/D (RTO)	K ^h	4
39	1	19207	Gear mainshaft 3rd		6
40	1	15980	Snap ring	φ	2
41	1	18349	Sliding clutch	φ	2
or 1		21662	Sliding clutch	K ^h	2

PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
K-2018	M/S O/D update kit <i>Also see pages 27 and 31</i>	K	@
K-2019	M/S 4th update kit <i>Also see pages 27 and 31</i>	L	@

φ Small parts kit K-1513

BASIC REBUILD KIT SEE PAGE 4

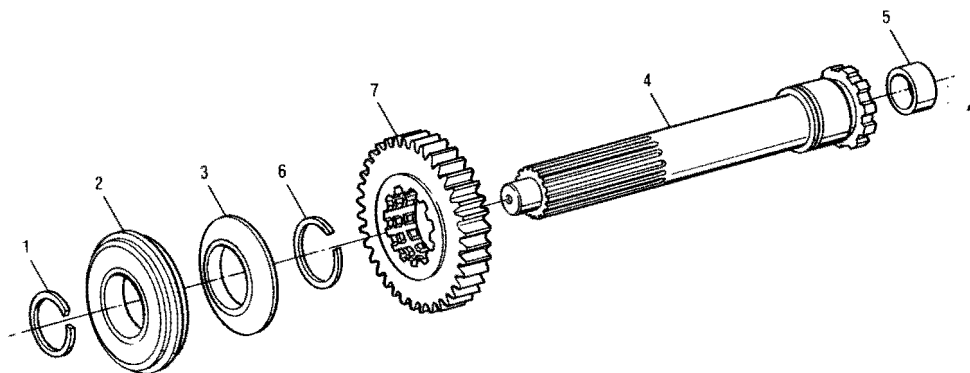
K-1851 ::

4 MUST BE USED IN SETS DUE TO BACK TAPERED CLUTCH TEETH
ALSO SEE PAGE 31

DRIVE GEAR - IDLER - MAINSHAFT BEARING ASSEMBLY

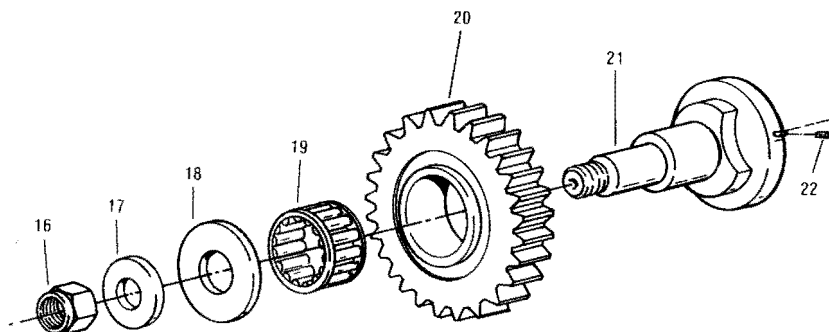
30

DRIVE GEAR ASSEMBLY



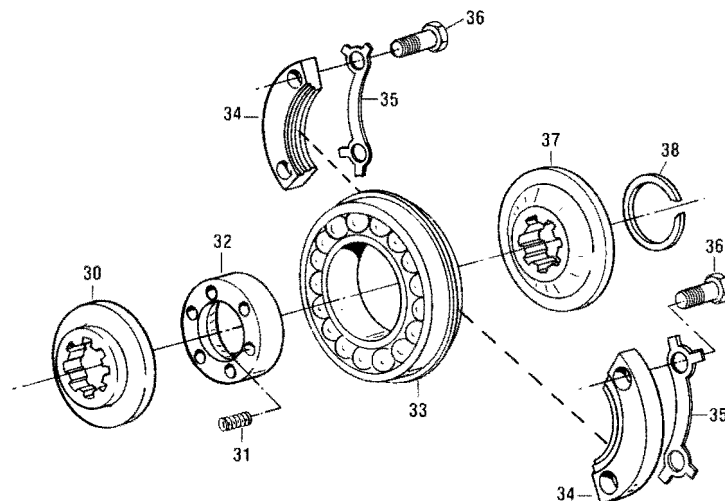
Cut 6387-2/80

IDLER GEAR ASSEMBLY



Cut 6383-4/79

MAINSHAFT BEARING ASSEMBLY



Cut 6419-6/81

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
1	1	15253	Snap ring	≡::	6
2	1	81551	Bearing	≡::	4
3	1	15971	Spacer		1
4	1	18441	Input shaft 1-3/4" <i>push</i> 1.18 dia. pilot 12.28" long <i>order S-1250</i>	Ⓜ L	@
or 1	18444		Input shaft 1-3/4" <i>pull</i> 1.18 dia. pilot 12.28" long <i>order S-1253</i>	Ⓜ M	@
or 1	18442		Input shaft 1-3/4" <i>push</i> .98 dia. pilot 12.28" long <i>order S-1251</i>	Ⓜ N	@
or 1	18443		Input shaft 1-1/2" <i>push</i> .98 dia. pilot 11.42" long <i>order S-1252</i>	Ⓜ O	@
or 1	18445		Input shaft 1-1/2" <i>push</i> .98 dia. pilot 12.22" long <i>order S-1254</i>	Ⓜ P	@
or 1	18446		Input shaft 1-3/4" <i>pull</i> .98 dia. pilot 12.28" long <i>order S-1255</i>	Ⓜ Q	@
5	1	15977	Bushing	::LMNOPQ	4
6	1	15973	Snap ring	::	2

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
7	1	19284	Gear main drive (RT)		6
or 1		19297	Gear main drive (RTO)		6
or 1		21661	Gear main drive (RT)	Kh	6
or 1		21669	Gear main drive (RTO)	Kh	6
16	2	X-1-803	Nut 1/2"		2
17	2	X-10-801	Washer 1/2"		—
18	2	16789	Washer		2
19	2	15045	Bearing	::	8
20	2	16234	Gear idler		2
21	2	16794	Idler shaft order S-1334	R	@
22	2	62506	Roll pin	R	—
30	1	16790	Washer		1
31	6	1813	Spring	φ	12
32	1	16793	Ring		1
33	1	81505	Bearing	::	4
34	2	15981	Retainer		—
35	2	15748	Lockwasher	::φ	6
36	4	X-8-600	Capscrew 3/8"-16 × 1"		—
37	1	16792	Retainer		—
38	1	14993	Snap ring	::φ	3

PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
S-1250	Input shaft assembly	L	@
S-1251	Input shaft assembly	N	@
S-1252	Input shaft assembly	O	@
S-1253	Input shaft assembly	M	@
S-1254	Input shaft assembly	P	@
S-1255	Input shaft assembly	Q	@
S-1334	Idler shaft assembly	R	@

φ Small parts kit K-1513

BASIC REBUILD KIT SEE PAGE 4

K-1851 ::

K K-2018 ALSO SEE PAGES 27 AND 29

L K-2019 ALSO SEE PAGES 27 AND 29

k MUST BE USED IN SETS DUE TO BACK TAPERED CLUTCH TEETH
ALSO SEE PAGE 29

Ⓜ FOR ADDITIONAL INPUT SHAFT INFORMATION SEE
SUPER PARTS BOOK FORM P-583

@ SEE PAGES 2 AND 3 FOR STOCKING QUANTITY

32

This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or valve. The parts are numbered as follows:

- 1**: A large, curved, flange-like component.
- 2**: A bolt with an asterisk (*) indicating a specific feature or specification.
- 3**: A bolt used for securing the top cover.
- 4**: A small O-ring or seal.
- 5**: A threaded rod or pin.
- 6**: A circular flange or disc.
- 7**: A circular disc or washer.
- 8**: A square flange or plate.
- 9**: A square flange or plate, similar to part 8.
- 10**: A bolt or pin passing through the square flanges.
- 11**: A bracket or support arm.
- 12**: The main cylindrical body of the assembly.
- 13**: A long, thin rod or shaft.

Assembly lines with arrows indicate the sequence and alignment of the components.

***Note: Use lockwire at this position**

This diagram shows an exploded view of a mechanical assembly. The components are numbered as follows: 30 (a bracket with two curved ends), 31 (a screw), 32 (a circular flange), 33 (a small ring), 34 (a large cylindrical component), 35 (a long shaft), 36 (a long bolt), 37 (a small pin), 38 (a small pin), 39 (a small pin), 40 (a small ring), 41 (a small ring), 42 (a small ring), 43 (a small ring), 44 (a circular flange), 45 (a large circular flange), and 46 (a small pin). Dashed lines indicate the assembly path and alignment of the parts.

***Note: Use lockwire at this position**

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
1	1	14347	Gasket	V	—
2	2	X-7-810	Bolt 1/2"-20 × 2"		—
3	8	X-8L-604	Capscrew 3/8"-16 × 1-1/4"		—
4	1	14765	"O" ring	::SUV	—
5	1	14345	"O" ring	::SUV	—
6	1	14341	Piston	V	2
7	1	14344	"O" ring	::SUV	—
8	1	14349	Gasket	::SUV	—
9	1	19599	Cylinder cover		1
10	1	X-1-1010	Nut 5/8"-18	::STUV	2
11	1	16775	Shift yoke		3
12	1	16778	Range cylinder	V	2
13	1	16993	Yoke bar		2

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
30	1	16813	Shift yoke		3
31	1	3220	Lock screw		—
32	1	14632	Gasket	W	—
33	1	14644	"O" ring	::TUW	—
34	1	16801	Intermediate cylinder	W	@
35	1	18507	Yoke bar		2
36	4	X-8-507	Capscrew 5/16"-18 × 1-1/2"		—
			<i>replaced by X-8L-507</i>		—
	or 4	X-8L-507	Capscrew 5/16"-18 × 1-1/2"		—
37	3	13653	"O" ring <i>part of item 39</i>	X	3
38	1	15719	Plug		1
39	1	15512	Insert valve	::	4
40	1	14643	Piston	W	2
41	1	18506	Gasket	::TUW	—
42	1	X-1-702	Nut 7/16"-20	UW	2
43	1	14621	"O" ring		—
44	1	15720	Gasket		—
45	1	16963	Cylinder cover <i>w/selector valve</i>		—
	or 1	21676	Cylinder cover <i>w/A-5015, A-5315</i>	‡	—
46	4	X-3-500	Lockwasher 5/16"		—

PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
K-1431	Cylinder kit range	V	@
K-1434	Cylinder kit intermediate	W	@
K-1447	"O" ring kit all	U	@
K-1450	"O" ring kit range	S	@
K-1451	"O" ring kit intermediate	T	@
K-1457	"O" ring kit valve	X	@

BASIC REBUILD KIT SEE PAGE 4

K-1851 ::

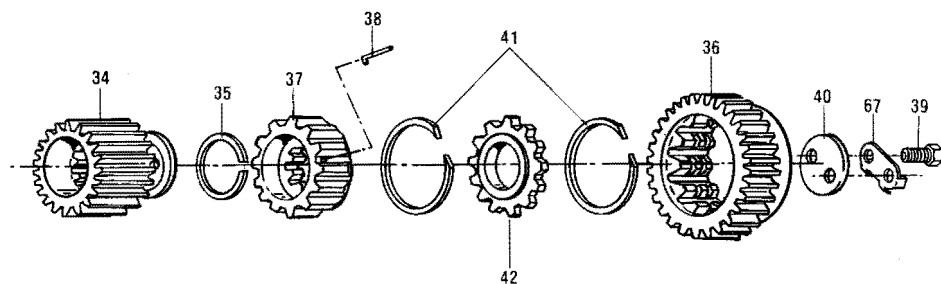
‡ VALVE CONVERSION KIT A-5015
ALSO SEE PAGE 11

@ SEE PAGES 2 AND 3 FOR STOCKING QUANTITY

AUXILIARY DRIVE GEAR - INTERMEDIATE CASE

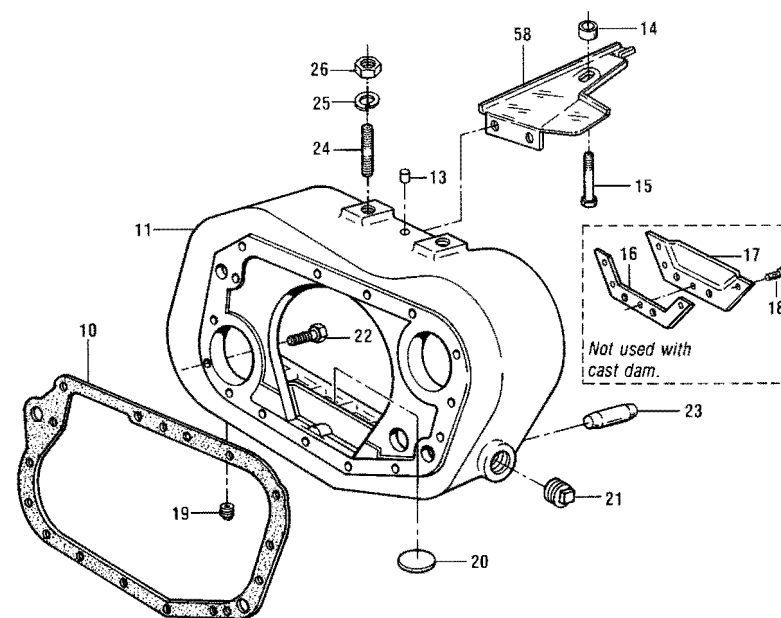
34

AUXILIARY DRIVE GEAR ASSEMBLY



Cut 6418-1/84

INTERMEDIATE HOUSING ASSEMBLY



Cut 6525 5/80

ITEM	QTY.	USED PART NO.	DESCRIPTION	SYM-BOL	STOCK QTY.
10	1	15061	Gasket		—
11	1	16810	Case <i>order S-1405</i>	q	—
13	1	15701	Plug	q	—
14	1	16824	Spacer		—
15	1	X-8-430	Capscrew 1/4"-20 × 7/8"		—
16	1	16827	Gasket		—
17	1	16828	Oil reservoir plate		1
18	4	X-12-215	Drive screw		4
19	1	X-12-1201	Pipe plug 3/4"		—
	or 1	X-12-1202	Pipe plug 3/4" <i>magnetic</i>		—
20	1	14373	Magnet	q	—
21	1	X-12-2001	Pipe plug 1-1/4"		—
22	4	X-8-679	Capscrew 3/8"-16 × 1-3/4"		—
	and 11	X-8-680	Capscrew 3/8"-16 × 1-1/2"		—
23	2	14334	Dowel		2
24	2	6579	Stud 5/8"		—
	or 2	20814	Spacer		—
	and 2	X-8-1005	Capscrew 5/8"-11 × 1-1/4"		—
	or 2	1712	Plug		—

ITEM	QTY.	USED PART NO.	DESCRIPTION	SYM-BOL	STOCK QTY.
25	2	X-3-1000	Lockwasher 5/8"		—
26	2	X-1-1000	Nut 5/8"-18		—
34	1	16809	Gear auxiliary drive		4
35	1	16812	Snap ring	φ	2
36	1	16815	Gear mainshaft		2
37	1	16811	Sliding clutch		3
38	1	16816	Retainer	φ	1
39	2	X-7-501	Bolt 5/16"-24 × 1"		—
40	1	16795	Retainer		1
41	2	16798	Snap ring	φ	4
42	2	16799	Washer		2
58	1	17504	Oil trough	Z	2
67	1	19688	Lockwasher		16

PART NO.	DESCRIPTION	SYM-BOL	STOCK QTY.
K-1019	Replacement kit		
	oil trough		
	<i>Also see page 39</i>	Z	@
S-1405	Intermediate case assembly	q	@

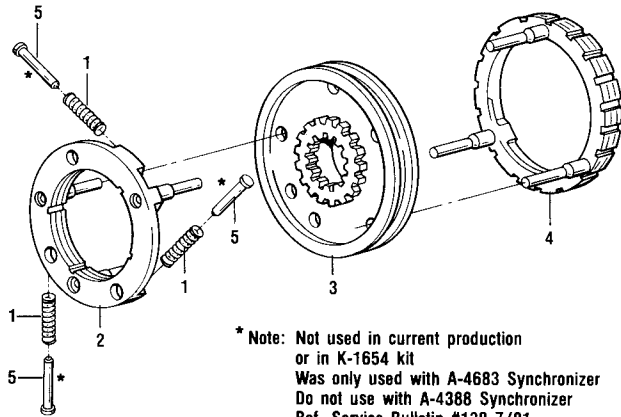
φ Small parts kit K-1513

@ SEE PAGES 2 AND 3 FOR STOCKING QUANTITY

AUXILIARY MAINSHAFT ASSEMBLY

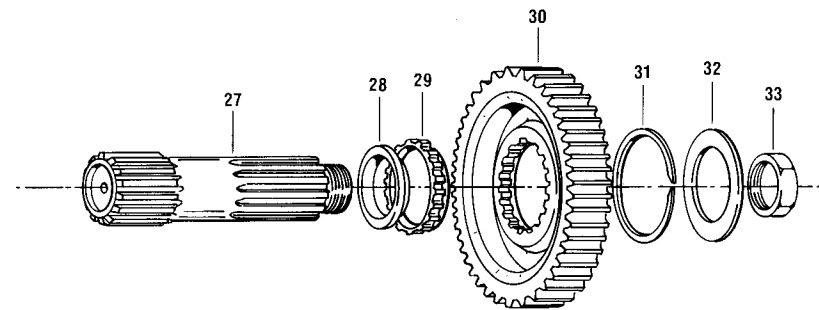
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SYNCHRONIZER ASSEMBLY



Cut 6480B-3/84

AUXILIARY MAINSHAFT ASSEMBLY



Cut 6550-1/84

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
1	3	14897	Spring	≡::φY A B	18
2	1	A-4683	Synchronizer high <i>replaced by A-4938</i>		—
or 1		A-4938	Synchronizer high	⊙ A B	7
or 1		A-5180	Synchronizer high <i>replaced by A-4938</i>		—
3	1	16759	Sliding clutch		4
or 1		20323	Sliding clutch	A	4
4	1	A-4416	Synchronizer low	⊙	7
or 1		A-4937	Synchronizer low	⊠ A B	7
or 1		A-5179	Synchronizer low <i>replaced by A-4937</i>		—

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
5	3	19154	Pin (<i>see note in cut</i>)		—
27	1	19204	Mainshaft		2
28	1	14332	Washer	φ	4
29	1	14331	Spacer	φ	4
30	1	19165	Gear mainshaft low		2
31	1	14327	Snap ring	φ	2
32	1	19542	Washer		4
33	1	11956	Nut <i>replaced by 22254</i>		—
or 1		22254	Nut		8

PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
K-1945	Synchronizer kit	⊙	@
K-1946	Synchronizer kit	B	@
K-1948	Replacement kit sliding clutch	A	@

BASIC REBUILD KIT SEE PAGE 4

K-1851 ::

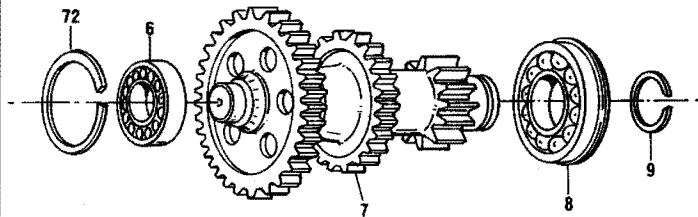
⊠ MUST BE USED IN SETS DUE TO LARGER
SYNCHRONIZER PINS IN LOW RANGE

@ SEE PAGES 2 AND 3 FOR STOCKING QUANTITY

AUXILIARY COUNTERSHAFT - AUXILIARY HOUSING

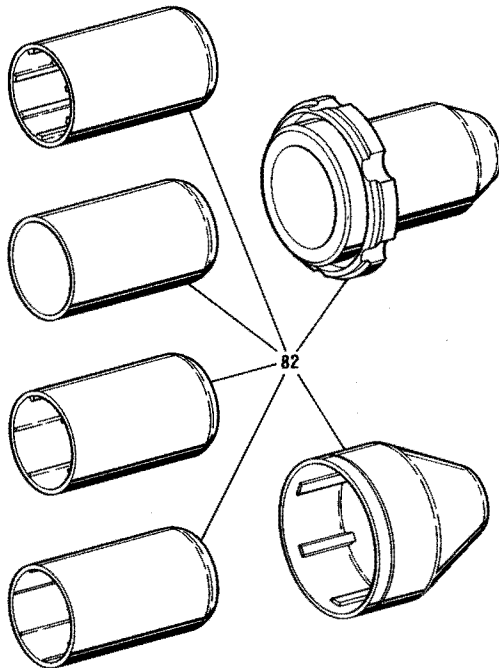
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AUXILIARY COUNTERSHAFT ASSEMBLY



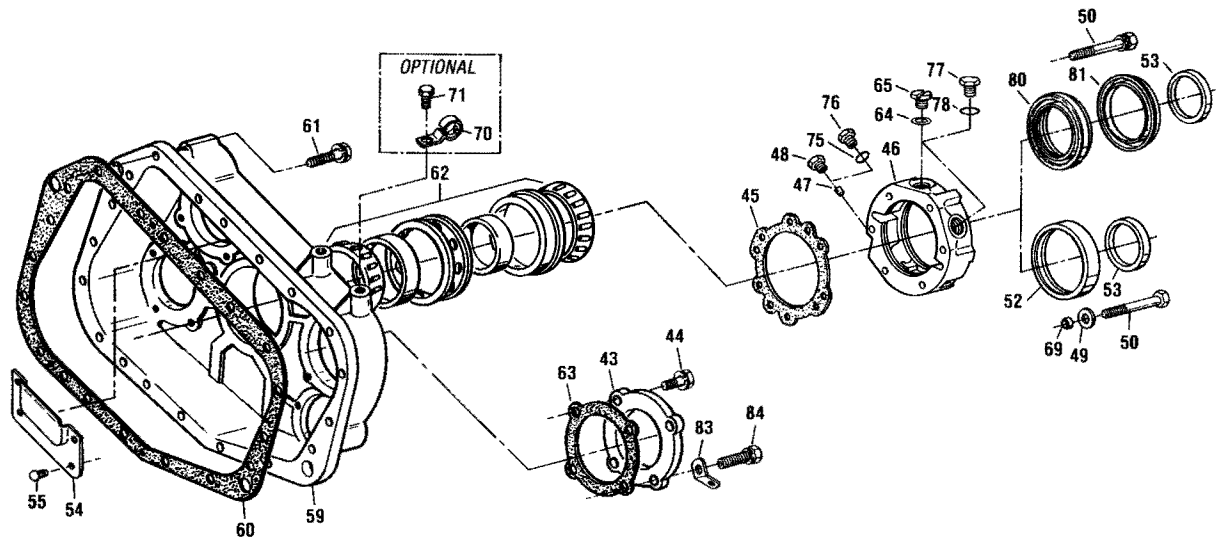
Cut 6500-1/84

OIL SEAL AND SLINGER INSTALLATION TOOLS K-2091



Cut 8530-11/87

AUXILIARY HOUSING ASSEMBLY



Cut 6526-5/88

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
6	2	16817	Bearing	::	8
7	2	A-4096	Countershaft assembly (D/G 16797—Int. 16814— C/S 16806)*		4
8	2	81008	Bearing replaced by 81052		—
or	2	81052	Bearing	::	8
9	2	16723	Snap ring	::φ	8
43	2	16724	Rear bearing cover		1
44	8	X-8L-600	Capscrew 3/8"-16 × 1" replaced by X-8-686		—
or	8	X-8-686	Capscrew 3/8"-16 × 3/4"		—
45	1	15532	Gasket	ikn Dℰ	—
46	1	20208	Rear bearing cover mechanical and electronic order S-1428 replaces the following rear bearing covers 14961 - 18806 - 18997 - 20205 20206 - 20207 - K-1772	Ωhk	@
or	1	20812	Rear bearing cover mechanical only order K-1938 replaces the following rear bearing covers 18375 - K-1776	Ωi	@
or	1	22041	Rear bearing cover mechanical and magnetic order K-1563 replaces the following rear bearing covers 22038 - 22039 - 22040	§ΩD	@
or	1	22042	Rear bearing cover mechanical only order S-1565	§Ωℰ	@
47	1	7992	Bushing	ikn Dℰ	—
48	1	2237	Plug replaced by 20226		—
or	1	20226	Plug	in	—
49	1	17106	Gasket	ihk Dℰ	—
50	5	X-8-616	Capscrew 3/8"-16 × 2-3/4"		—
and	1	X-8-681	Capscrew 3/8"-16 × 2-3/4"		—
or	5	X-8L-605	Capscrew 3/8"-16 × 3"	§	—
and	1	X-8L-682	Capscrew 3/8"-16 × 3"	§	—
52	1	14337	Oil seal replaced by 21036		—
or	1	19109	Oil seal replaced by 21036		—
or	1	21036	Oil seal	::ikn Dℰ	8
53	1	14375	Spacer speedo replacement		—

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
54	1	17503	Oil reservoir plate	bcdeZ	@
55	4	X-13-217	Drive screw	bcdeZ	@
59	1	16843	Rear housing replaced by S-1300		—
or	1	17391	Rear housing w/oil cooler order S-1001	e	@
or	1	18765	Rear housing w/oil cooler order S-1301	c	@
or	1	18764	Rear housing order S-1300	d	@
or	1	18787	Rear housing order S-1300	d	@
60	1	14335	Gasket		—
61	8	X-8L-604	Capscrew 3/8"-16 × 1-1/2"	d	—
and	9	X-8L-602	Capscrew 3/8"-16 × 1-1/4"		—
and	2	X-8L-614	Capscrew 3/8"-16 × 2"		—
62	1	14367	Bearing	::	4
63	2	17097	Gasket		—
64	1	17179	Gasket	n	—
65	1	17178	Plug magnetic speedo	n	—
69	1	19709	Collar	ikn Dℰ	6
70	1	19727	Hose clamp		—
71	1	X-8L-601	Capscrew 3/8"-16 × 3/4"		—
72	2	16807	Spacer		—
75	1	14142	"O" ring	ik Dℰ	—
76	1	20226	Plug mechanical	ikn Dℰ	—
77	1	20224	Plug magnetic	ikn	—
78	1	20225	"O" ring use w/plug	ikn	—
or	1	13679	"O" ring use w/sensor		—
80	1	20807	Oil seal order K-1932	▼E̅k	@
81	1	20808	Oil seal slinger order K-1932	▼E̅+	@
82	1	K-2091	Oil seal and slinger installation tool		1
83	2	20815	Lifting eye		—
84	2	X-8L-600	Capscrew 3/8"-16 × 1"		—

PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
K-1019	Replacement kit oil trough Also see page 35	Z	@
K-1037	Replacement kit reservoir	b	@
S-1001	Rear housing assembly	e	@
S-1300	Rear housing assembly	d	@
S-1301	Rear housing assembly	c	@
S-1428	Rear bearing cover assembly mechanical and magnetic	n	@
K-1932	Oil seal kit	▼	@
K-1938	Rear bearing cover assembly mechanical only	i	@
S-1538	Rear bearing cover assembly mechanical and magnetic	h	@
S-1563	Rear bearing cover assembly mechanical and magnetic	D	@
S-1565	Rear bearing cover assembly mechanical only	ℰ	@

φ Small parts kit K-1513

BASIC REBUILD KIT SEE PAGE 4

K-1851 ::

* MAJOR PARTS OF WELDED ASSEMBLY

E̅ NOTE: Oil seal item 80 must be used with oil seal slinger item 81 output yoke or flange must have machine step for slinger mounting.

Ω NOTE: Cover may be rotated 180° for proper speedometer opening location.

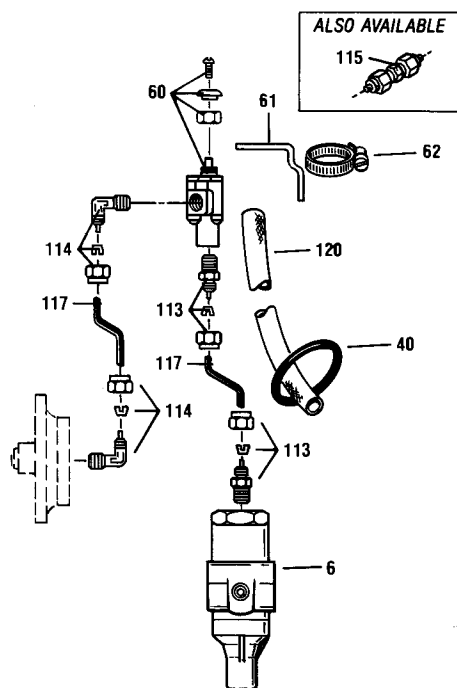
§ USE X-8-682 - X-8L-605 CAPSCREWS WITH 22038 - 22039 - 22040 - 22041 - 22042 REAR BEARING COVERS

@ SEE PAGES 2 AND 3 FOR STOCKING QUANTITY

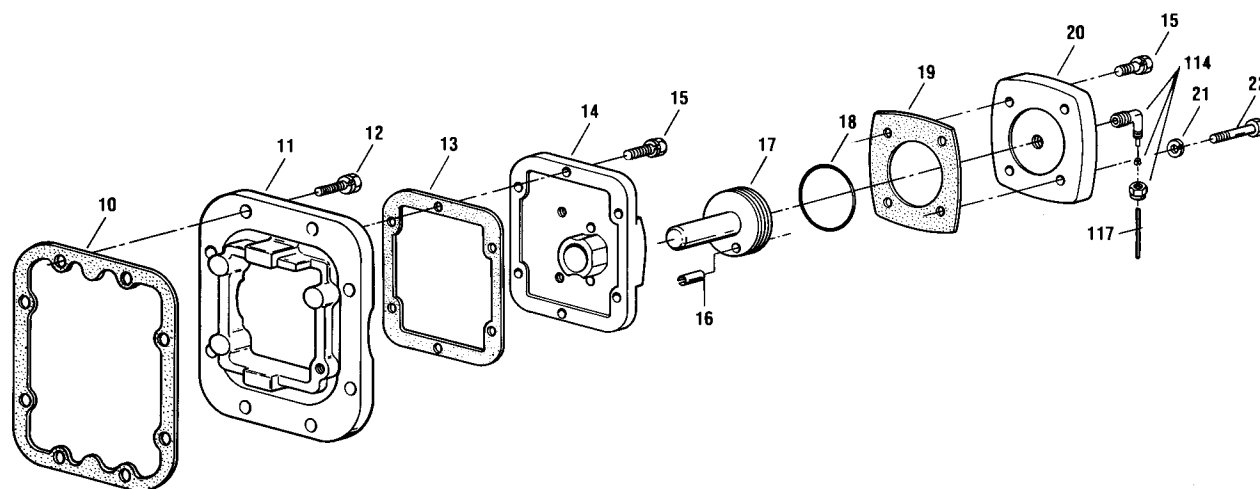
COUNTERSHAFT BRAKE

40

COUNTERSHAFT BRAKE AIR SYSTEM



COUNTERSHAFT BRAKE ASSEMBLY



Cut 6084 - 2/88

Cut 6644 - 5/87

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
2	1	85002	Elbow assembly 1/8" pipe	Q	—
or	1	84502	Elbow 1/8" pipe	Q	—
and	1	83501	Grip nut	Q	—
and	1	83001	Compression sleeve	Q	—
3	2	84002	Connector assembly 1/8" pipe	Q	—
or		82502	Connector 1/8" pipe	Q	—
and		83501	Grip nut	Q	—
and		83001	Compression sleeve	Q	—
5	1	84101	Connector 1/8" nylon tubing	Q	—
or		NPN	Body order 84101	Q	—
and		83501	Grip nut	Q	—
and		83001	Compression sleeve	Q	—
6	1	A-4740	Regulator filter assembly		4
10	1	16929	Gasket	hj	—
11	1	18471	Adapter plate		—
		replaced by K-1712		jk	—
12	8	X-8L-722	Capscrew 7/16"-14 × 1-1/4"	K	—
13	1	1684	Gasket	hij	—
14	1	16656	PTO brake housing	ij	1
15	6	X-8L-604	Capscrew 3/8"-16 × 1-1/4"	hij	—
16	1	62515	Roll pin	hij	1
17	1	16658	Piston	hij	2
18	1	16660	"O" ring	hij	4
19	1	16661	Gasket	hij	4

ITEM	QTY. USED	PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
20	1	16659	PTO brake cover	ij	1
21	2	X-3-600	Lockwasher 3/8"		—
		replaced by X-8L-607			—
22	2	X-8-607	Capscrew 3/8"-16 × 2-1/4"		—
		replaced by X-8L-607			—
or	2	X-8L-607	Capscrew 3/8"-16 × 2-1/4"	ij	—
27		8000	Sheathing		—
40	1	13571	"O" ring		—
60	1	16859	Actuator valve	ij	4
61	1	16914	Bracket	ij	—
62	1	16924	Clamp	ij	—
66	1	82010	Nylon tubing black (20')	Q	—
113	1	84004	Connector assembly		—
		1/8" pipe		ij	10
or	1	82504	Connector 1/8" pipe	ij	—
or	1	83502	Grip nut	ij	—
or	1	83002	Compression sleeve	ij	—
114	2	85001	Elbow assembly 1/8" pipe	ij	10
or	2	84501	Elbow 1/8" pipe	ij	—
or	2	83502	Grip nut	ij	—
or	2	83002	Compression sleeve	ij	—
115	2	84003	Connector assembly		—
		5/32" tube		ij	10
or	2	82503	Connector 5/32" tube	ij	—
or	2	83502	Grip nut	ij	—
or	2	83002	Compression sleeve	ij	—
117	1	75320	Nylon tubing 5/32" black 50'	ij	1

PART NO.	DESCRIPTION	SYM- BOL	STOCK QTY.
K-2075	Brake kit TCB-6	i	@
K-2074	Brake kit TCB-8	j	@
K-2076	Repair kit brake TCB	h	@
K-1712	Adapter plate kit	k	@

ij USE IN SETS FOR 5/32" TUBING

Q 1/8" TUBING AND FITTINGS REPLACED BY 5/32" TUBING AND FITTINGS

YOKES - FLANGES**MAJOR DIA. 2.500 - 10 SPLINE****HUB DIA. AT OIL SEAL 3.750**

TRANSMISSION MODEL SERIES			TYPE	SERIES	FULLER PART NO.		
					A	B	D
TA-4510	RTO-958LL	RT-11609	Yoke	1760	86716	A-5061	
T-955	RT-909	RT-11610	Yoke	1810	86718	A-5079	
T-1056AA	RT-9509	RT-11613	Flange	1650/1710	86706	A-5076	
T-11606	RT-910	RT-11615	Flange	1760/1810	86707	A-5077	
T-11607	RT-913	RT-11715	Yoke	1710	86717	A-5064	
RT-613	RT-9513	RT-12609	C-Yoke	1710	86749	A-5190	
RT-6613	RT-915	RT-12610	Yoke	92N	86755	A-5218	
RT-7608LL	RT-11509	MRT-11609 (Output)	Flange	1760/1810	86760	A-5251	
RT-8608L	RT-1110	MRT-11610 (Output)	Flange	1650/1710	86761	A-5252	
RT-906	RT-11608	MRT-11613 (Output)	C-Yoke	1810	86769	A-5412	
RT-9508	RTO-11608LL	MRT-11615 (Output)	Yoke	1710			86603
	RTO-11708LL		Yoke	1760			86604
			Yoke	1810			86605

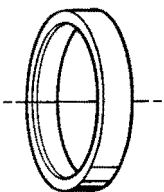
A With Hardened Oil Seal Wear Surface &
For Slinger

B "A" With Slinger Installed

C Half Round Tapped Holes

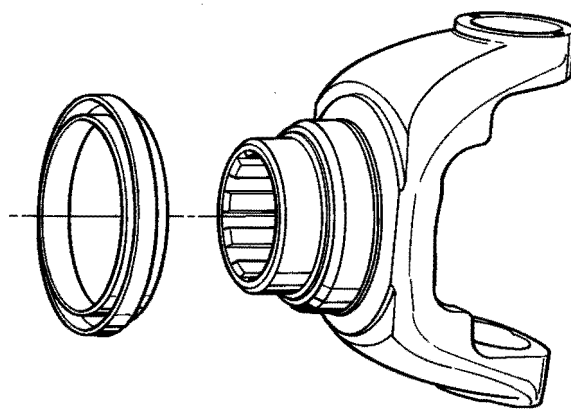
D Without Hardened Oil Seal Wear Surface &
Without Slinger

Cut 6810M-3/88



Also available
K-1940 wear sleeve kit

Cut 6815-5/85



20808 Slinger

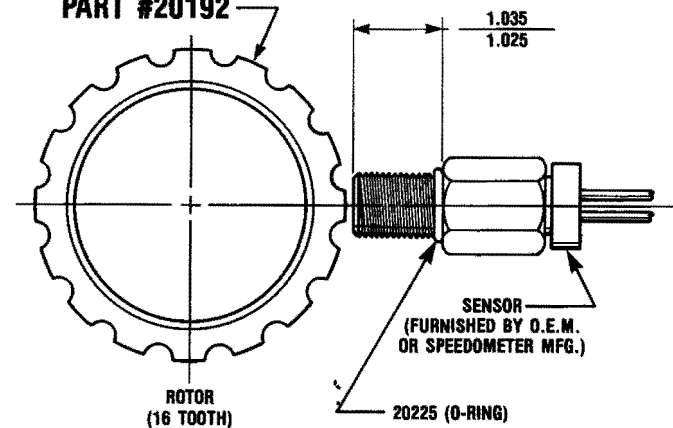
Yoke with hardened seal
surface and machined
step for slinger.

Cut 6810-5/85

SPEEDOMETER DRIVE - MAGNETIC**TRANSMISSION MODEL SERIES**

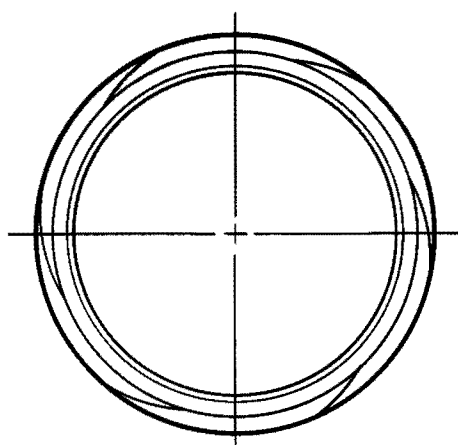
T-11606	RTO-11608LL
T-11607	RTO-11708LL
T-14607	RT-11613
RT-6613	RTO-11813
RT-7608LL	RT-11615
RT-8608L	RT-11715
RT-11608	RT-12609
RT-11609	RT-12610
RT-11610	

Cut 6820M-3/88

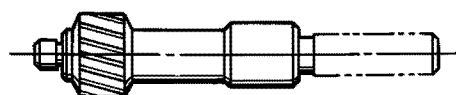
PART #20192

Cut 6820A-5/85

SPEEDOMETER DRIVE - MECHANICAL



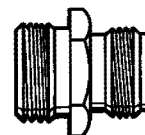
DRIVE GEAR



DRIVEN GEAR

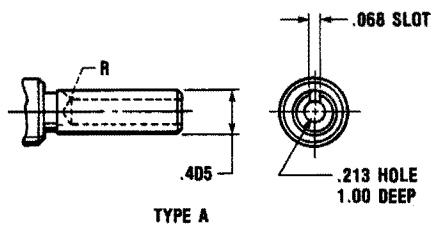


14142 "O" RING

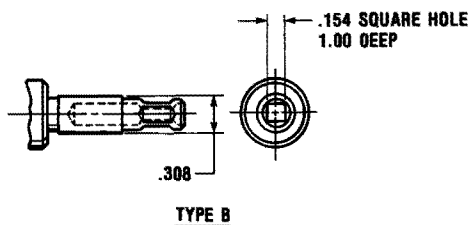


SLEEVE

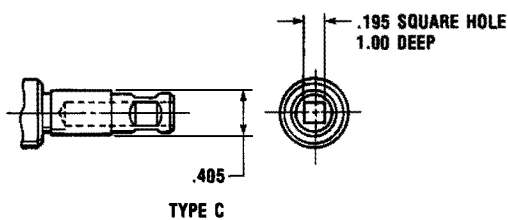
DRIVEN GEAR TYPES



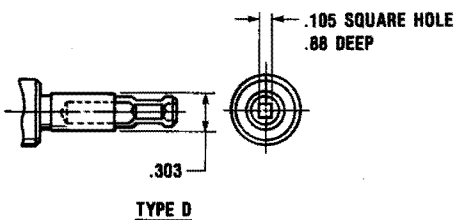
TYPE A



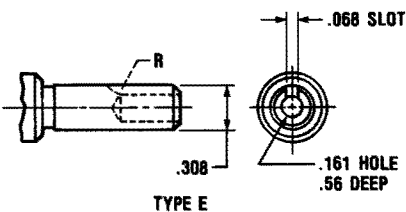
TYPE B



TYPE C



TYPE D



TYPE E

REQUIREMENTS FOR DRIVEN GEARS:

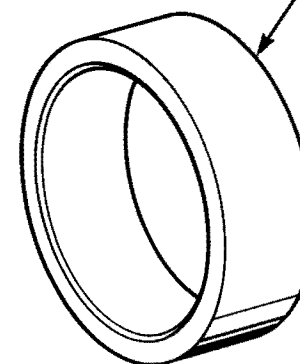
FOR TYPES A AND C USE 86013 SLEEVE WITH RIGHT HAND OIL THREADS
FOR TYPES B, D AND E USE 86016 SLEEVE WITHOUT OIL THREADS

IF ADAPTER IS REQUIRED, DETERMINE ADAPTER RATIO AND USE:

FOR TYPE A USE ADAPTER WITH .193 DIA. BAR DRIVE END
FOR TYPE B USE ADAPTER WITH .150 SQUARE DRIVE END
FOR TYPE C USE ADAPTER WITH .183 SQUARE DRIVE END
FOR TYPE D USE ADAPTER WITH .104 SQUARE DRIVE END

SPEEDOMETER REPLACEMENT

PART #14375



Note: 20182 Rotor may also be used for a speedometer replacement.

Cut 6825A-5/85

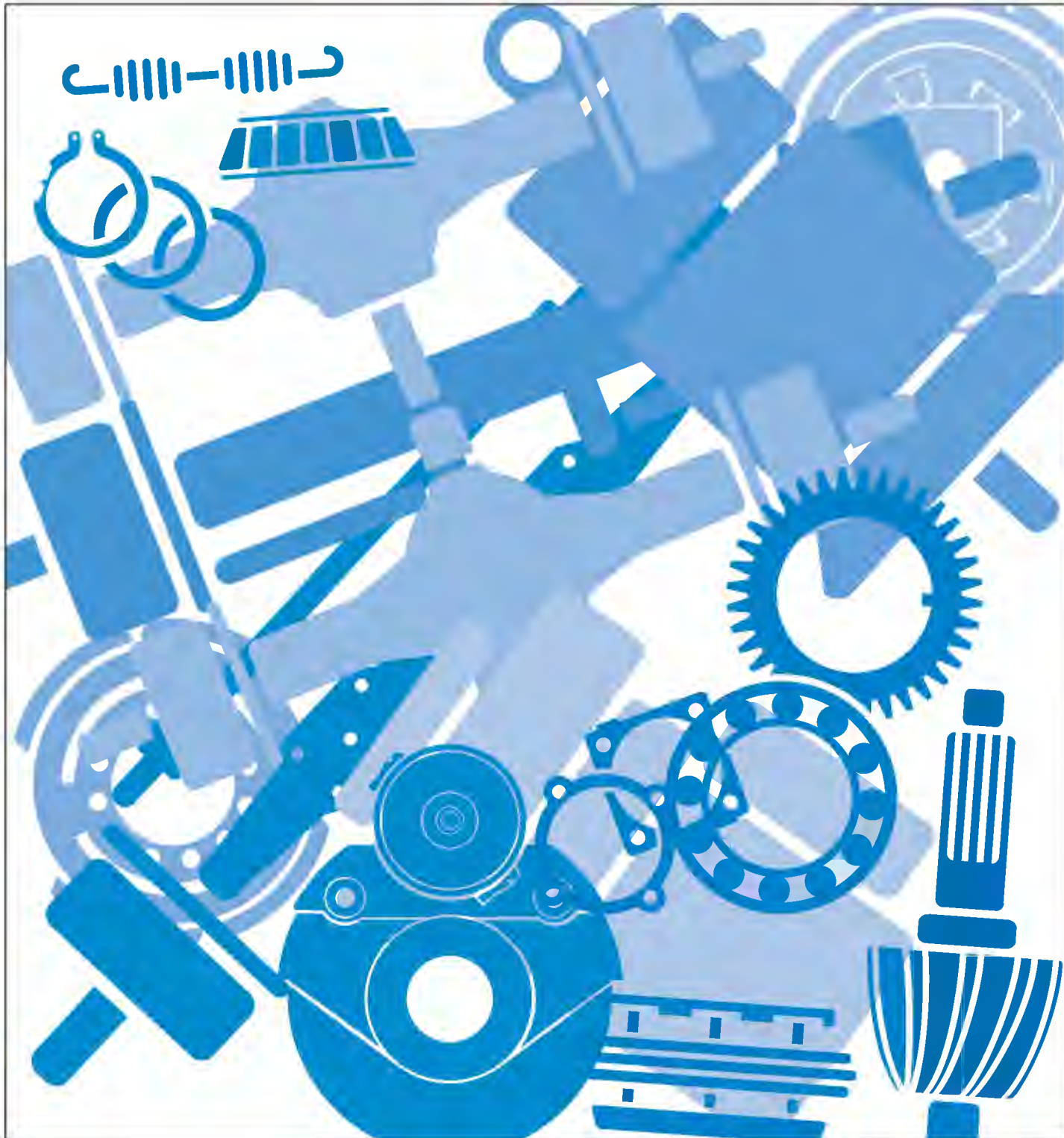
TRANSMISSION MODEL SERIES

RT-613	RT-1110
RT-6613	RT-11608
RT-7608LL	RTO-11608LL
RT-8608L	RTO-11708LL
RT-906	RT-11609
RT-9508	RT-11610
RTO-958LL	RT-11613
RT-9509	RTO-11813
RT-910	RT-11615
RT-9513	RT-11715
RT-915	RT-12609
RT-11509	RT-12610

DRIVE GEAR		DRIVEN GEAR			RATIO
PART NO.	T	PART NO.	T	TYPE	
86068	6	86128	12	A	6/12
86068	8	86087	13	A	6/13
86068	6	86111	14	A	6/14
86067	4	86086	14	A	4/14
86127	6	86123	14	C	6/14
86127	6	86126	15	C	6/15

Cut 6830M-3/88

NOTES



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