

GROUP D

LOW-RANGE CLUTCH, FIGURE 11

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
2	PLATE, INTERNAL SPLINED	23010123	5	5	10	20
3	PLATE, EXTERNAL SPLINED	6776092	4	4	8	16
6	PISTON, LOW-RANGE CLUTCH	6776359	1		1	2
9	HUB ASSY, LOW-RANGE CLUTCH	6778535	1		1	2
11	HUB, LOW-RANGE CLUTCH	6778534 *	1			
12	PIN	141157	1	1	2	3
13	SHAFT, SPEEDOMETER DRIVE	6775822	1		1	2
14	RING, SEAL, HOOK TYPE	6839163	1	1	3	10
16	BEARING, ROLLER, HY BU5215L	7451532	1	1	2	5
21	NOT USED IN THIS GROUP.					
24	COVER, TRANSMISSION REAR	6778533	1			1
25-26	NOT USED IN THIS GROUP.					

GROUP E

LOW-RANGE CLUTCH, FIGURE 11

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1	PLATE, BACKING, LOW-RANGE CLUTCH	6839913	1		1	2
2	PLATE, INTERNAL SPLINED	23010123	5	5	10	20
3	PLATE, EXTERNAL SPLINED	6839914	4	4	8	16
6	PISTON, LOW-RANGE CLUTCH	6838670	1		1	2
9-18	NOT USED IN THIS GROUP					
24-27	NOT USED IN THIS GROUP					
28	GEAR ASSY, TRANSFER DRIVE, WHEN REPLACING 6838503 GEAR WITH 6882680 GEAR ALSO ORDER 6882677 GEAR.	6882680	1		1	2
29	PIN, REACTION	6839911	8		8	16
30	GEAR, TRANSFER DRIVE	6882676 *	1		1	2
31	RING, SEAL	6838711	1	1	2	4
32	SPACER, USED WITH 6884038 OR 6838671 HUB ASSY	6884022	1	1	2	4
33	HUB ASSY, LOW-RANGE CLUTCH, WHEN REPLACING 6838671 HUB ASSY WITH 6884038 HUB ASSY ALSO ORDER 6884022 SPACER	6884038	1		1	2
34	PLUG, ORIFICE	6838708	1		1	2
35	HUB, LOW-RANGE CLUTCH	6884021 *	1			
36-38	NOT USED IN THIS GROUP					
39	RING, SEAL, HOOK TYPE	6839163	1	1	3	10
40	TAB, LOCKING	6773461	8	8	16	32
41	BOLT, HX HD, 1/2-20 X 3	447126	8	8	16	32
42	BEARING, ROLLER, HY BU5215L	7451532	1	1	2	5

GROUP F

LOW-RANGE CLUTCH, FIGURE 11

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2	PLATE, INTERNAL SPLINED	23010123	5	5	10	20
3	PLATE, EXTERNAL SPLINED	6776092	4	4	8	16
6	PISTON, LOW-RANGE CLUTCH	6776359	1		1	2
25-26	NOT USED IN THIS GROUP					

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP G

LOW-RANGE CLUTCH, FIGURE 11

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	PLATE, BACKING, LOW-RANGE CLUTCH	6839913	1		1	2
2	PLATE, INTERNAL SPLINED	23010123	5	5	10	20
3	PLATE, EXTERNAL SPLINED	6839914	4	4	8	16
6	PISTON, LOW-RANGE CLUTCH	6838670	1		1	2
9-18	NOT USED IN THIS GROUP					
21	NOT USED IN THIS GROUP					
24	COVER, TRANSMISSION REAR	6778533	1			1
25-27	NOT USED IN THIS GROUP					
28	GEAR ASSY, TRANSFER DRIVE, WHEN REPLACING 6838503 GEAR WITH 6882680 GEAR ALSO ORDER 6882677 GEAR.	6882680	1		1	2
29	PIN, REACTION	6839911	8		8	16
30	GEAR, TRANSFER DRIVE	6882676	*		1	2
31	RING, SEAL	6838711	1	1	2	4
32	SPACER, USED WITH 6881066 HUB ASSY	6884022	1	1	2	4
33	HUB ASSY, LOW-RANGE CLUTCH. WHEN REPLACING A 6881066 HUB ASSY ALSO ORDER 1-6884022 SPACER. IF YOU HAVE THE SPACER IT MAY NOT BE NECESSARY TO REORDER.	6881066	1		1	2
34	PLUG, DRIFICE	6838708	1		1	2
35	HUB, LOW-RANGE CLUTCH	6881067	*			
36	PIN	141159	1	1	2	3
37	SHAFT, SPEEDOMETER DRIVE	6881068	1		1	2
38	RING, SEAL, HOOK TYPE	6839163	1	1	3	10
39	RING, SEAL, HOOK TYPE	6839163	1	1	3	10
40	TAB, LOCKING	6773461	8	8	16	32
41	BOLT, HX HD, 1/2-20 X 3	447126	8	8	16	32
42	BEARING, ROLLER, HY BU5215L	7451532	1	1	2	5

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT SECTION

TO FIND DETAIL PARTS FOR YOUR ALLISON POWERSHIFT TRANSMISSION, TURN TO THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
6778502	TT4420-1	A	6838149	TT 4420-1	B
6778503	TT4420-1	B	6838755	CT 4420-1	D
6778504	TRT4420-1	C	6838932	TRT 4621-1	C
6778505	TT4420-1	A	6839015	TT 4420-1	A
6778506	TRT4621-1	D	6839016	TRT 4420-1	D
6778850	TRT4420-1	D	6839066	TRT 4420-1	D
6778851	TRT4420-1	C	6839529	TT 4720-1	E
6779472	TRT4420-1	C	6839530	TT 4720-1	F
6779473	TRT4420-1	C	6839531	TT 4720-1	E
6779787	TRT4621-1	D	6839532	TT 4720-1	F
6779877	TRT4420-1	D	6839533	TT 4720-1	E
6830564	TRT4621-1	D	6839535	TRT 4820-1	G
6830580	TRT4420-1	D	6839536	TRT 4820-1	H
6830653	TRT4621-1	D	6839537	TRT 4820-1	G
6830694	TT4420-1	A	6839538	TRT 4820-1	H
6830749	TRT4621-1	C	6839606	TRT 4621-1	B
6830750	TRT4621-1	D	6839751	TRT 4620-1	B
6831146	TT4420-1	B	6839827	TRT 4820-1	G
6831386	TT 4420-1	B	6839828	TT 4720-1	G
6831397	TRT4621-1	D	6839934	TRT 4820-1	G
6831802	TRT 4420-1	C	6880119	CRT 4420-1	D
6831832	TRT 4620-1	C	6880580	TT 4720-1	F
6831834	TRT 4420-1	C	6880637	TRT 4820-1	G
6831887	TRT 4420-1	D	6880651	TRT 4820-1	G
6832150	TRT 4621-1	C	6880821	TRT 4820-1	H
6832151	TRT 4420-1	C	6880963	TRT 4820-1	G
6832448	TT 4420-1	A	6881065	TRT 4820-1	G
6832449	TRT 4420-1	C	6881422	TRT 4820-1	G
6832600	TRT 4621-1	D	6881432	TRT 4820-1	H
6832690	TRT 4621-1	D	6881444	TRT 4820-1	G
6833334	TT 4420-1	A	6881811	TRT 4820-1	G
6833387	TRT 4620-1	C	6882364	TRT 4820-1	H
6834142	TT 4420-1	A	6882740	TT 4820-1	G
6834832	TT 4420-1	B	6883301	TT 4720-1	F
6834954	TRT 4420-1	D	6883512	TRT 4820-1	H
6835026	TT 4420-1	A	6883569	TT 4720-1	E
6835208	TRT 4420-1	C	6883590	TRT 4820-1	G
6835617	TRT 4420-1	C	6883992	TRT 4820-1	G
6835686	TRT 4420-1	D	6884285	TRT 4820-1	G
6835828	TT 4420-1	A	6885375	TRT 4820-1	G
6835991	TT 4420-1	B	6885405	TRT 4820-1	H
6836187	TRT 4621-1	C	6885527	TT 4720-1	E
6836629	TRT 4621-1	C	6885541	TRT 4820-1	H
6836795	TRT 4621-1	D	23010838	TT 4720-1	H
6836975	TRT 4621-1	C	23010839	TT 4720-1	F
6836987	TT 4420-1	B	23010840	TRT 4820-1	G
6837148	TRT 4621-1	D	23011460	TRT 4820-1	G
6837245	TRT 4621-1	C	23011461	TRT 4820-1	G
6837680	TRT 4620-1	C	23011477	TRT 4821-1	G
6837861	TRT 4420-1	D	23011478	TRT 4821-1	H

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* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE

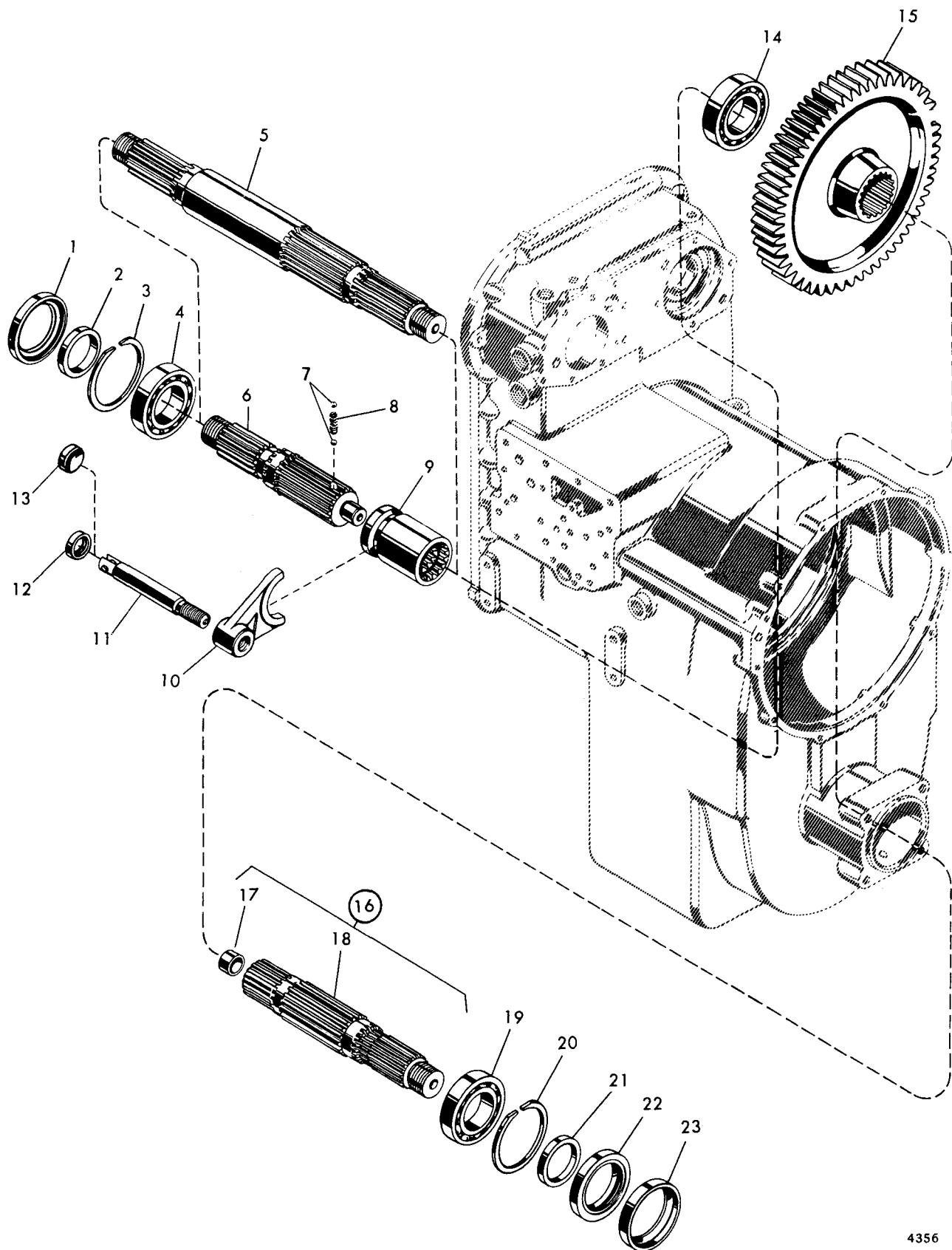
12-1.2 ALLISON POWERSHIFT TRANSMISSION TT, TRT, CT AND CRT 4000 SERIES PARTS CATALOG

FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT SECTION

TO FIND DETAIL PARTS FOR YOUR ALLISON POWERSHIFT TRANSMISSION, TURN TO THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
23011479	TRT 4821-1	G	23011492	TT 4721-1	E
23011480	TRT 4821-1	G	23011493	TT 4721-1	E
23011481	TRT 4821-1	G	23011494	TRT 4821-1	G
23011482	TRT 4821-1	G	23011534	TRT 4820-1	G
23011483	TRT 4821-1	G	23012060	TRT 4821-1	G
23011484	TRT 4821-1	H	23012247	TRT 4820-1	G
23011485	TRT 4821-1	G	23012398	TRT 4821-1	H
23011486	TRT 4821-1	G	23012399	TT 4721-1	F
23011487	TRT 4821-1	H	23012400	TRT 4821-1	G
23011488	TRT 4821-1	G	23012401	TRT 4821-1	G
23011489	TT 4721-1	E	23012481	TRT 4820-1	G
23011490	TT 4721-1	F	23012683	TRT 4821-1	G
23011491	TT 4721-1	E	23012781	TRT 4821-1	G

* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE



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FIG. 12. FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT

GROUP A

FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT, FIGURE 12

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	SEAL, OIL	6773311	1	1	3	10
2	SPACER	6830198	1	1	2	3
3	RING, SNAP, INTERNAL	6750924	1	1	2	5
4	BEARING, SINGLE ROW BALL, ND3213LR1214A	907703	1	1	2	5
5	SHAFT, FRONT AND REAR OUTPUT	6778272	1		1	2
6-12	NOT USED IN THIS GROUP					
13	CAP, SHIFTER SHAFT HOLE, USED ON 6831357, 6778266 AND 6882575 TRANSMISSION HOUSINGS	6774572	1		1	2
14	NOT USED IN THIS GROUP					
15	GEAR, TRANSFER DRIVEN	6778542	1		1	2
16-18	NOT USED IN THIS GROUP					
19	BEARING, SINGLE ROW BALL, ND1213LR1214A	907406	1	1	2	5
20	NOT USED IN THIS GROUP					
21	SPACER	6830198	1	1	2	3
22	SEAL, OIL	6773311	1	1	3	10
23	SLINGER	6757563	1	1	3	10

GROUP B

FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT, FIGURE 12

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

5	NOT USED IN THIS GROUP					
6	SHAFT, FRONT OUTPUT	6838720	1		1	2
7	BALL	145643	2	2	4	8
8	SPRING	6769532	1	1	2	4
9	COUPLING, DISCONNECT	6759873	1		1	2
10	FORK, SHIFTER	6772184	1		1	2
11	SHAFT, SHIFTER FORK	6772187	1		1	2
12	SEAL, OIL	6703159	1	1	3	10
13	NOT USED IN THIS GROUP					
14	BEARING, SINGLE ROW BALL, ND3213LR1214A	907703	1	1	2	5
16	SHAFT ASSY, REAR OUTPUT	6776147	1		1	2
17	BUSHING	6756835	1	1	2	4
18	SHAFT, REAR OUTPUT	6776115 *	1			
19	BEARING, SINGLE ROW BALL, ND3213LR1214A	907703	1	1	2	5
20	RING, SNAP, INTERNAL	6750924	1	1	2	5

GROUP C

FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT, FIGURE 12

SAME AS GROUP B, EXCEPT FOR PARTS LISTED BELOW.

15	GEAR, TRANSFER DRIVEN	6778516	1		1	2
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GROUP D

FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT, FIGURE 12

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

15	GEAR, TRANSFER DRIVEN	6778516	1		1	2
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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP E

FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT, FIGURE 12

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
5	SHAFT, FRONT AND REAR OUTPUT	6838718	1		1	2
15	GEAR, TRANSFER DRIVEN	6839248	1		2	5

GROUP F

FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT, FIGURE 12

SAME AS GROUP B, EXCEPT FOR PARTS LISTED BELOW

15	GEAR, TRANSFER DRIVEN	6839248	1		2	5
16	SHAFT ASSY, REAR OUTPUT	6838722	1	1	2	4
17	BUSHING	6756835	1	1	2	4
18	SHAFT	6838721 *	1			

GROUP G

FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT, FIGURE 12

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

5	SHAFT, FRONT AND REAR OUTPUT	6838718	1		1	2
15	GEAR, TRANSFER DRIVEN, WHEN REPLACING 6838717	6882677	1		2	5
	GEAR WITH 6882677 GEAR ALSO ORDER 6882680 GEAR.					

GROUP H

FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT, FIGURE 12

SAME AS GROUP B, EXCEPT FOR PARTS LISTED BELOW

15	GEAR, TRANSFER DRIVEN, WHEN REPLACING 6838717	6882677	1		2	5
	GEAR WITH 6882677 GEAR ALSO ORDER 6882680 GEAR					
16	SHAFT ASSY, REAR OUTPUT	6838722	1	1	2	4
17	BUSHING	6756835	1	1	2	4
18	SHAFT, REAR OUTPUT	6838721 *	1			

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

CHARGING OIL PUMP SECTION

TO FIND DETAIL PARTS FOR YOUR ALLISON POWERSHIFT TRANSMISSION, TURN TO THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
6778502	TT4420-1	B	6838149	TT 4420-1	E
6778503	TT4420-1	B	6838755	CT 4420-1	E
6778504	TRT4420-1	B	6838932	TRT 4621-1	E
6778505	TT4420-1	A	6839015	TT 4420-1	E
6778506	TRT4621-1	D	6839016	TRT 4420-1	E
6778850	TRT4420-1	A	6839066	TRT 4420-1	B
6778851	TRT4420-1	C	6839529	TT 4720-1	J
6779472	TRT4420-1	D	6839530	TT 4720-1	J
6779473	TRT4420-1	B	6839531	TT 4720-1	G
6779787	TRT4621-1	F	6839532	TT 4720-1	G
6779877	TRT4420-1	E	6839533	TT 4720-1	G
6830564	TRT4621-1	E	6839535	TRT 4820-1	G
6830580	TRT4420-1	E	6839536	TRT 4820-1	H
6830653	TRT4621-1	E	6839537	TRT 4820-1	G
6830694	TT4420-1	E	6839538	TRT 4820-1	G
6830749	TRT4621-1	E	6839606	TRT 4621-1	B
6830750	TRT4621-1	E	6839751	TRT 4620-1	B
6831146	TT4420-1	E	6839827	TRT 4820-1	H
6831386	TT 4420-1	E	6839828	TT 4720-1	G
6831397	TRT4621-1	E	6839934	TRT 4820-1	G
6831802	TRT 4420-1	C	6880119	CRT 4420-1	E
6831832	TRT 4620-1	E	6880580	TT 4720-1	G
6831834	TRT 4420-1	E	6880637	TRT 4820-1	G
6831887	TRT 4420-1	E	6880651	TRT 4820-1	G
6832150	TRT 4621-1	E	6880821	TRT 4820-1	H
6832151	TRT 4420-1	B	6880963	TRT 4820-1	G
6832448	TT 4420-1	B	6881065	TRT 4820-1	H
6832449	TRT 4420-1	E	6881422	TRT 4820-1	G
6832600	TRT 4621-1	E	6881432	TRT 4820-1	G
6832690	TRT 4621-1	E	6881444	TRT 4820-1	J
6833334	TT 4420-1	E	6881811	TRT 4820-1	G
6833387	TRT 4620-1	C	6882364	TRT 4820-1	G
6834142	TT 4420-1	E	6882740	TT 4820-1	H
6834832	TT 4420-1	E	6883301	TT 4720-1	J
6834954	TRT 4420-1	E	6883512	TRT 4820-1	G
6835026	TT 4420-1	E	6883569	TT 4720-1	J
6835208	TRT 4420-1	B	6883590	TRT 4820-1	G
6835617	TRT 4420-1	B	6883992	TRT4820-1	G
6835686	TRT 4420-1	B	6884285	TRT 4820-1	G
6835828	TT 4420-1	E	6885375	TRT 4820-1	G
6835991	TT 4420-1	E	6885405	TRT 4820-1	H
6836187	TRT 4621-1	E	6885527	TT 4720-1	J
6836629	TRT 4621-1	B	6885541	TRT 4820-1	H
6836795	TRT 4621-1	E	23010838	TT 4720-1	H
6836975	TRT 4621-1	E	23010839	TT 4720-1	H
6836987	TT 4420-1	E	23010840	TRT 4820-1	G
6837148	TRT 4621-1	E	23011460	TRT 4820-1	G
6837245	TRT 4621-1	E	23011461	TRT 4620-1	G
6837680	TRT 4620-1	B	23011477	TRT 4821-1	G
6837861	TRT 4420-1	B	23011478	TRT 4821-1	H

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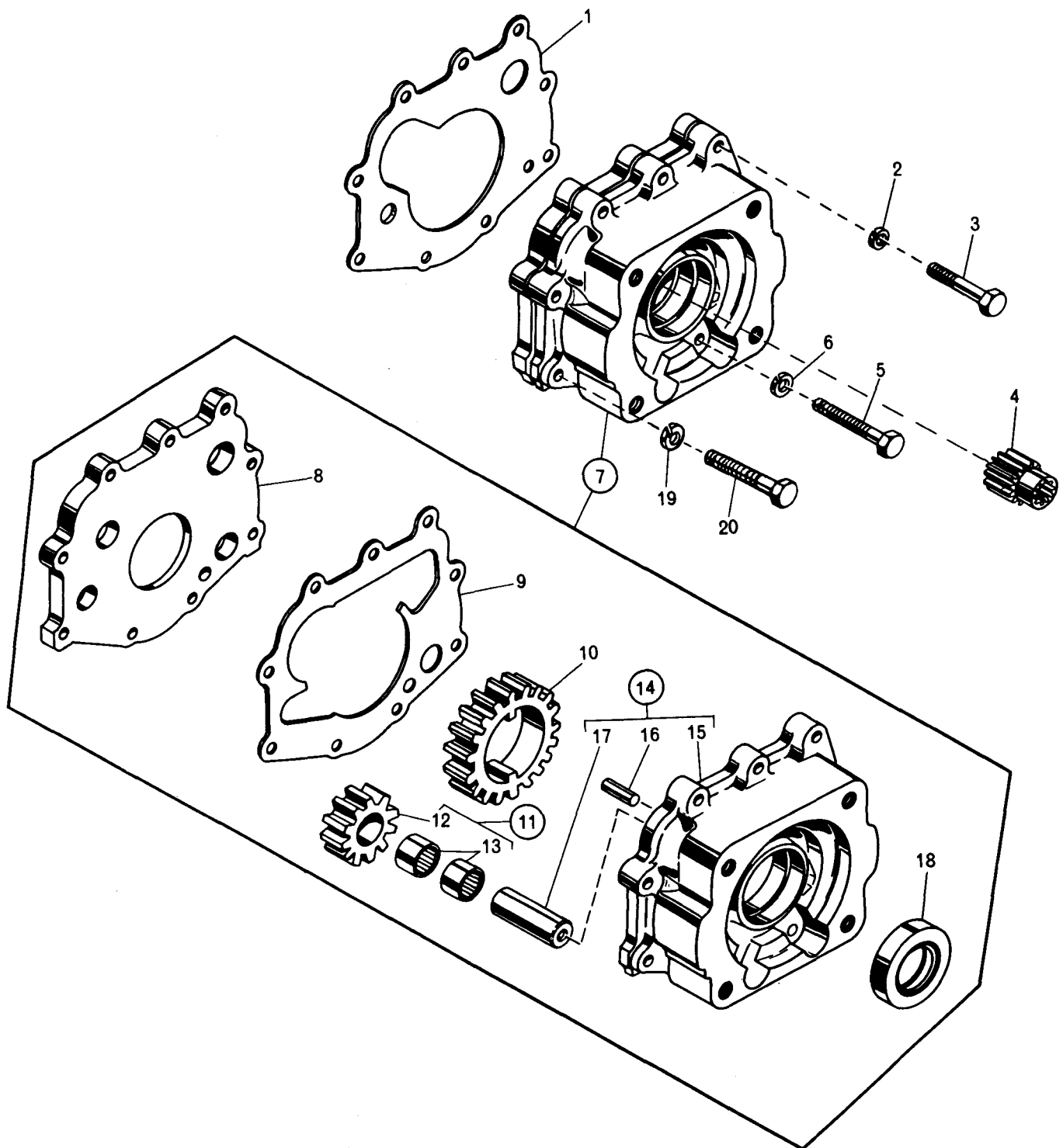
* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE

CHARGING OIL PUMP SECTION

TO FIND DETAIL PARTS FOR YOUR ALLISON POWERSHIFT TRANSMISSION, TURN TO THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.

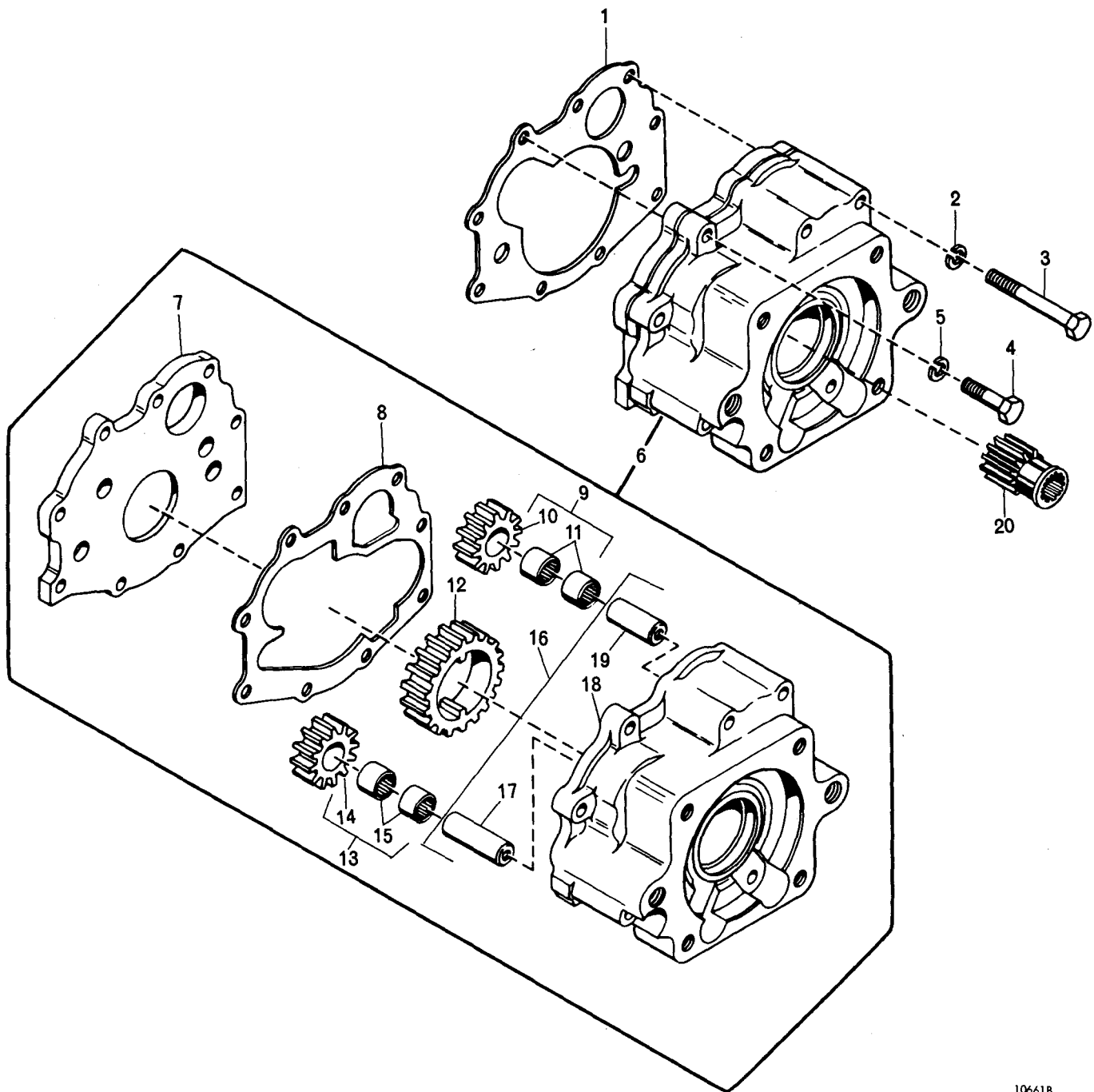
A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
23011479	TRT 4821-1	H	23011492	TT 4721-1	G
23011480	TRT 4821-1	G	23011493	TT 4721-1	J
23011481	TRT 4821-1	G	23011494	TRT 4821-1	G
23011482	TRT 4821-1	H	23011534	TRT 4820-1	G
23011483	TRT 4821-1	K	23012060	TRT 4821-1	J
23011484	TRT 4821-1	G	23012247	TRT 4820-1	G
23011485	TRT 4821-1	G	23012398	TRT 4821-1	G
23011486	TRT 4821-1	G	23012399	TT 4721-1	H
23011487	TRT 4821-1	H	23012400	TRT 4821-1	G
23011488	TRT 4821-1	G	23012401	TRT 4821-1	G
23011489	TT 4721-1	J	23012481	TRT 4820-1	L
23011490	TT 4721-1	J	23012683	TRT 4821-1	H
23011491	TT 4721-1	G	23012781	TRT 4821-1	L

* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE



4346A

FIG. 13. CHARGING OIL PUMP



10661B

10661A

FIG. 13-1. CHARGING OIL PUMP

GROUP A

CHARGING OIL PUMP, FIGURE 13

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	GASKET, OIL PUMP	6777316	1	1	3	10
2	WASHER, LOCK, 3/8	103321	7	7	14	21
3	BOLT, HX HD, 3/8-16 X 2	179847	7	7	14	21
4	COUPLING, IMPLEMENT PUMP DRIVE FROM C SIZE TO B SIZE SPLINE	6771957	1		1	2
5	BOLT, HX HD, 3/8-16 X 3	179851	2	2	4	6
6	WASHER, LOCK, 3/8	103321	2	2	4	6
7	PUMP ASSY, CHARGING OIL, C PAD, 4 BOLT	6776960	1		1	2
8	COVER, OIL PUMP	6777354	1			
9	GASKET, OIL PUMP COVER	6773543	1	1	3	10
10	GEAR, DRIVE	6776425	* 1			
11	GEAR ASSY, OIL PUMP DRIVEN	6776427	* 1			
12	GEAR, DRIVEN	6776426	* 1			
13	BEARING, ROLLER, TORRINGTON J-1210	9417600	2	2	4	10
14	BODY ASSY, OIL PUMP	6776429	* 1			
15	BODY, OIL PUMP	6776404	* 1			
16	PIN, DOWEL	141281	1	1	2	3
17	SHAFT, PUMP GEAR DRIVEN	6776428	* 1			
18	SEAL, OIL	23013719	1	1	3	10
19-20	NOT USED IN THIS GROUP.					

GROUP B

CHARGING OIL PUMP, FIGURE 13

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

7	PUMP ASSY, CHARGING OIL, B PAD, 2 BOLT	6776959	1		1	2
14	BODY ASSY, OIL PUMP	6776431	* 1			
15	BODY, OIL PUMP	6776407	* 1			

GROUP C

CHARGING OIL PUMP, FIGURE 13

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

2	WASHER, LOCK, 3/8	103321	6	6	12	18
3	BOLT, HX HD, 3/8-16 X 2	179847	6	6	12	18
7	PUMP ASSY, CHARGING OIL, C PAD, 2 BOLT	6778010	1		1	2
14	BODY ASSY, OIL PUMP	6778011	* 1			
15	BODY, OIL PUMP	6777931	* 1			
19	WASHER, LOCK, 3/8	103321	1	1	2	3
20	BOLT, HX HD, 3/8-16 X 3	179851	1			

GROUP D

CHARGING OIL PUMP, FIGURE 13

SAME AS GROUP C, EXCEPT FOR PARTS LISTED BELOW.

4	NOT USED IN THIS GROUP					
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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP E

CHARGING OIL PUMP, FIGURE 13

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
4	NOT USED IN THIS GROUP					

GROUP F

CHARGING OIL PUMP, FIGURE 13

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

4	NOT USED IN THIS GROUP					
7	PUMP ASSY, CHARGING OIL, C PAD, 2 BOLT	6777542	1		1	2
14	BODY ASSY, OIL PUMP	6777541	* 1			
15	BODY, OIL PUMP	6777540	* 1			

GROUP G

CHARGING OIL PUMP, FIGURE 13-1

1	GASKET, OIL PUMP	6838645	1	1	3	10
2	WASHER, LOCK, 3/8	103321	7	7	14	21
3	BOLT, HX HD, 3/8-16 X 4	186285	7	7	14	21
4	BOLT, HX HD, 3/8-16 X 2	179847	2	2	4	6
5	WASHER, LOCK, 3/8	103321	2	2	4	6
6	PUMP ASSY, CHARGING OIL, C PAD, 4 BOLT	6883966	1		1	2
7	COVER, OIL PUMP	6838646	1			
8	GASKET, OIL PUMP COVER	6838644	1	1	3	10
9	GEAR ASSY, OIL PUMP DRIVEN	6883964	* 1			
10	GEAR, DRIVEN	6776426	* 1			
11	BEARING, ROLLER, TORRINGTON NO. B-1210	148409	2	2	4	10
12	GEAR, DRIVE	6776425	* 1			
13	GEAR ASSY, OIL PUMP DRIVEN	6883964	* 1			
14	GEAR, DRIVEN	6776426	* 1			
15	BEARING, ROLLER, TORRINGTON NO. B1210	148409	2	2	4	10
16	BODY ASSY, OIL PUMP	6882645	* 1			
17	SHAFT, PUMP, GEAR DRIVEN	6776428	* 1			
18	BODY, OIL PUMP	6882646	* 1			
19	SHAFT, PUMP, GEAR DRIVEN	6838636	* 1			
20	NOT USED IN THIS GROUP					

GROUP H

CHARGING OIL PUMP, FIGURE 13-1

SAME AS GROUP G, EXCEPT FOR PARTS LISTED BELOW

6	PUMP ASSY, CHARGING OIL, C PAD, 2 BOLT	6883965	1		1	2
16	BODY ASSY, OIL PUMP	6839463	* 1			
18	BODY, OIL PUMP	6839464	* 1			

GROUP J

CHARGING OIL PUMP, FIGURE 13-1

SAME AS GROUP G, EXCEPT FOR PARTS LISTED BELOW

20	COUPLING, IMPLEMENT PUMP DRIVE, FROM C TO B SPLINE 6771957		1		1	2
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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP K

CHARGING OIL PUMP, FIGURE 13-1

SAME AS GROUP H, EXCEPT FOR PARTS LISTED BELOW

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
20	COUPLING, IMPLEMENT PUMP DRIVE, FROM C TO B SPLINE	6771957	1		1	2

GROUP L

CHARGING OIL PUMP, FIGURE 13-1

SAME AS GROUP G, EXCEPT FOR PARTS LISTED BELOW

6	PUMP ASSY, CHARGING OIL, CPAD 2 AND 4 BOLT . . .	23011649	1		1	2
16	BODY ASSY, OIL PUMP	23011650 *	1			
18	BODY, OIL PUMP	23011651 *	1			

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

CONTROL VALVE SECTION

TO FIND DETAIL PARTS FOR YOUR ALLISON POWERSHIFT TRANSMISSION, TURN TO
THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
6778502	TT4420-1	E	6838149	TT 4420-1	C
6778503	TT4420-1	E	6838755	CT 4420-1	C
6778504	TRT4420-1	B	6838932	TRT 4621-1	A
6778505	TT4420-1	C	6839015	TT 4420-1	C
6778506	TRT4621-1	A	6839016	TRT 4420-1	A
6778850	TRT4420-1	A	6839066	TRT 4420-1	A
6778851	TRT4420-1	A	6839529	TT 4720-1	F
6779472	TRT4420-1	B	6839530	TT 4720-1	F
6779473	TRT4420-1	A	6839531	TT 4720-1	G
6779787	TRT4621-1	A	6839532	TT 4720-1	G
6779877	TRT4420-1	A	6839533	TT 4720-1	G
6830564	TRT4621-1	A	6839535	TRT 4820-1	D
6830580	TRT4420-1	A	6839536	TRT 4820-1	D
6830653	TRT4621-1	A	6839537	TRT 4820-1	H
6830694	TT4420-1	C	6839538	TRT 4820-1	H
6830750	TRT 4621-1	D	6839606	TRT 4621-1	A
6830749	TRT4621-1	B	6839751	TRT 4620-1	A
6831146	TT4420-1	C	6839827	TRT 4820-1	H
6831386	TT 4420-1	C	6839828	TT 4720-1	G
6831397	TRT4621-1	A	6839934	TRT 4820-1	H
6831802	TRT 4420-1	A	6880119	CRT 4420-1	A
6831832	TRT 4620-1	B	6880580	TT 4720-1	G
6831834	TRT 4420-1	D	6880637	TRT 4820-1	H
6831887	TRT 4420-1	A	6880651	TRT 4820-1	H
6832150	TRT 4621-1	D	6880821	TRT 4820-1	H
6832151	TRT 4420-1	B	6880963	TRT 4820-1	H
6832448	TT 4420-1	E	6881065	TRT 4820-1	H
6832449	TRT 4420-1	D	6881422	TRT 4820-1	H
6832600	TRT 4621-1	D	6881432	TRT 4820-1	H
6832690	TRT 4621-1	A	6881444	TRT 4820-1	H
6833334	TT 4420-1	C	6881811	TRT 4820-1	H
6833387	TRT 4620-1	D	6882364	TRT 4820-1	H
6834142	TT 4420-1	C	6882740	TT 4820-1	H
6834832	TT 4420-1	E	6883301	TT 4720-1	F
6834954	TRT 4420-1	A	6883512	TRT 4820-1	H
6835026	TT 4420-1	C	6883569	TT 4720-1	F
6835208	TRT 4420-1	A	6883590	TRT 4820-1	H
6835617	TRT 4420-1	A	6883992	TRT4820-1	H
6835686	TRT 4420-1	B	6884285	TRT 4820-1	D
6835828	TT 4420-1	C	6885375	TRT 4820-1	H
6835991	TT 4420-1	C	6885405	TRT 4820-1	D
6836187	TRT 4621-1	A	6885527	TT 4720-1	F
6836629	TRT 4621-1	A	6885541	TRT 4820-1	D
6836795	TRT 4621-1	A	23010838	TT 4720-1	G
6836975	TRT 4621-1	B	23010839	TT 4720-1	G
6836987	TT 4420-1	E	23010840	TRT 4820-1	D
6837148	TRT 4621-1	A	23011460	TRT 4820-1	J
6837245	TRT 4621-1	B	23011461	TRT 4820-1	K
6837680	TRT 4620-1	A	23011477	TRT 4821-1	D
6837861	TRT 4420-1	B	23011478	TRT 4821-1	D

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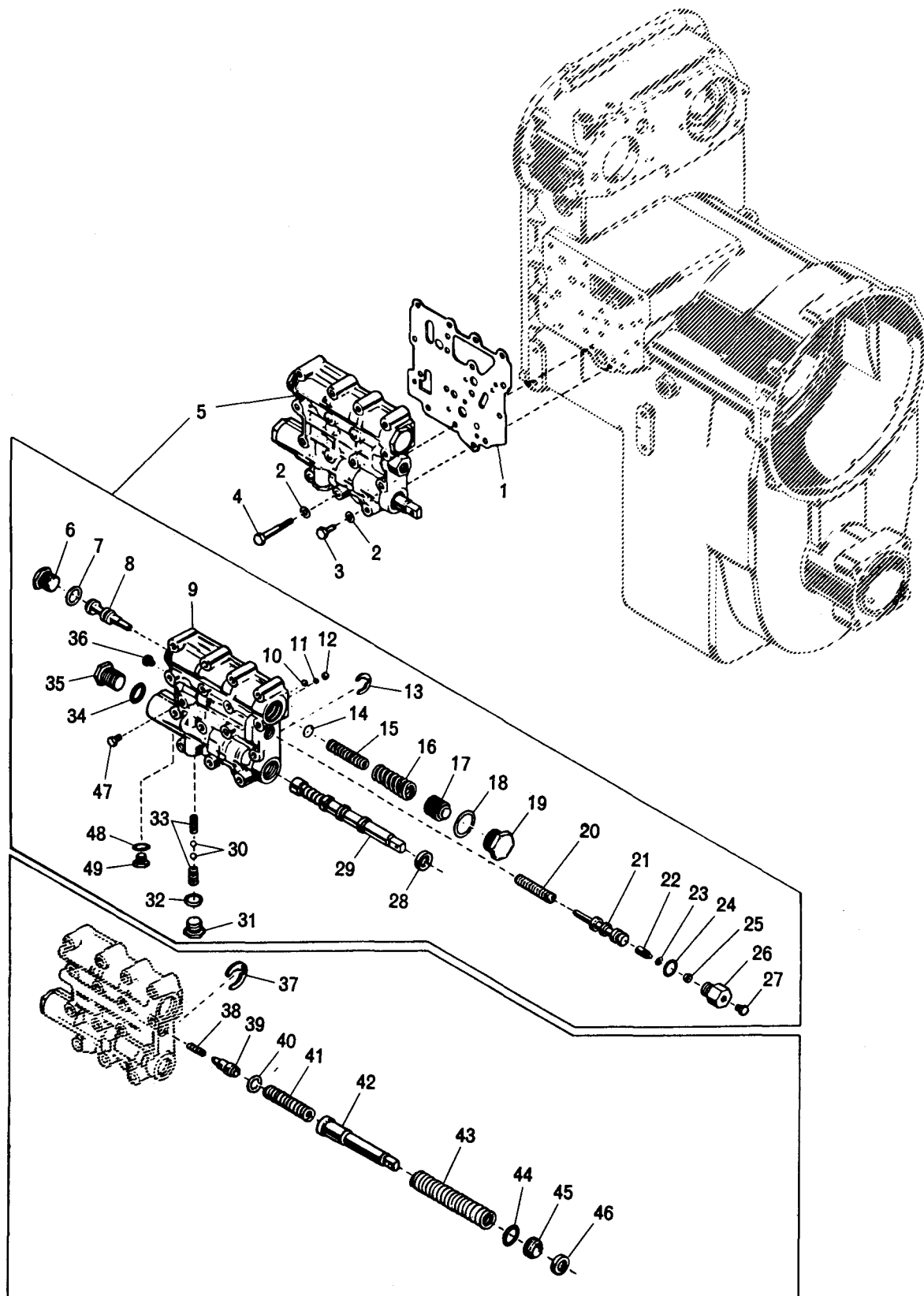
* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE

CONTROL VALVE SECTION

TO FIND DETAIL PARTS FOR YOUR ALLISON POWERSHIFT TRANSMISSION, TURN TO
THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
23011479	TRT 4821-1	H	23011492	TT 4721-1	G
23011480	TRT 4821-1	H	23011493	TT 4721-1	F
23011481	TRT 4821-1	H	23011494	TRT 4821-1	K
23011482	TRT 4821-1	H	23011534	TRT 4820-1	J
23011483	TRT 4821-1	H	23012060	TRT 4821-1	J
23011484	TRT 4821-1	H	23012247	TRT 4820-1	H
23011485	TRT 4821-1	H	23012398	TRT 4821-1	H
23011486	TRT 4821-1	D	23012399	TT 4721-1	G
23011487	TRT 4821-1	D	23012400	TRT 4821-1	J
23011488	TRT 4821-1	D	23012401	TRT 4821-1	J
23011489	TT 4721-1	E	23012481	TRT 4820-1	H
23011490	TT 4721-1	F	23012683	TRT 4821-1	H
23011491	TT 4721-1	G	23012781	TRT 4821-1	H

* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE



4310E

FIG. 14. CONTROL VALVE

GROUP A

CONTROL VALVE, FIGURE 14
WITH AIR ACTUATED CLUTCH CUTOFF

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	GASKET, CONTROL VALVE	6831383	1	1	3	10
2	WASHER, LOCK, 3/8	103321	16	16	32	48
3	BOLT, HX, 3/8-16 X 1	179839	1	1	2	3
4	BOLT, HX, 3/8-16 X 2 1/2	179849	15	15	30	45
5	VALVE ASSY, CONTROL	6839876	1			1
6	PLUG	6773618	1		1	2
7	GASKET	6701353	1	1	3	10
8	VALVE, REGULATOR, USE 6776971 REGULATOR VALVE PRIOR TO S/N 297, EXCEPT S/N 285, 286 AND ALL TRT 4621-1 TRANSMISSIONS, SEE SPI 653	6831187	1		1	2
9	BODY, CONTROL VALVE, REPLACE 6776897 CONTROL VALVE BODY WITH 6839876 OR 6839878 CONTROL VALVE ASSY, SEE SPI 653. WHEN REPLACING 6831943 BODY WITH 6839890 BODY ALSO ORDER 6880946 CUTOFF VALVE, 6839891 SELECTOR VALVE, 444612 PLUG, 6880391 PLUG AND 6880392 SEAL. WHEN REPLACING 6837940 BODY WITH 6839890 BODY ALSO ORDER 6839891 SELECTOR VALVE, 444612 PLUG, 6880391 PLUG AND 6880392 SEAL.	6839890	1		1	1
10	PLUG, ORIFICE, USE 6775530 PLUG PRIOR TO S/N . 297 EXCEPT 285, 286 AND ALL TRT 4621-1 TRANSMISSIONS, SEE SPI 653	6775530	1	1	2	3
11	BALL	6755913	1	1	2	3
12	PLUG, BALL RETAINER	6773622	1	1	2	3
13	STOP, VALVE, USE 6775542 VALVE STOP PRIOR TO S/N 297 EXCEPT 285, 286 AND ALL TRT 4621-1 TRANSMISSIONS, SEE SPI 653	6773592	1		1	2
14	RETAINER, SPRING	6835702	1		1	2
15	SPRING, REGULATOR VALVE, USE 6830292 REGULATOR VALVE SPRING PRIOR TO S/N 297 EXCEPT 285, 286 AND ALL TRT 4621-1 TRANSMISSIONS, SEE SPI 653	6885165	1	1	2	3
16	SPRING, TRIMMER VALVE, USE 6773593 TRIMMER . . VALVE SPRING PRIOR TO S/N 297 EXCEPT 285, 286 AND ALL TRT 4621-1 TRANSMISSIONS, SEE SPI 653	6830365	1	1	2	3
17	PLUG, TRIMMER VALVE	6834961	1		1	2
18	GASKET	6773607	1	1	3	10
19	PLUG	6773616	1		1	2
20	SPRING	6765710	1	1	2	3
21	VALVE, CLUTCH CUTOFF	6880946	1		1	2
22	PLUG	6758305	1		1	2
23	RING, SEAL	6750558	1	1	3	10
24	GASKET	6772740	1	1	3	10
25	NOT USED IN THIS GROUP					
26	PLUG, CUTOFF VALVE	6771378	1		1	2
27	NOT USED IN THIS GROUP					
28	SEAL, OIL	6880484	1	1	3	10
29	VALVE, RANGE SELECTOR, USE 6773589 RANGE . . . SELECTOR VALVE PRIOR TO S/N 297 EXCEPT 285, 286 AND ALL TRT 4621-1 TRANSMISSIONS, SEE SPI 653. USE 6831189 SELECTOR VALVE PRIOR TO S/N 5685 FOR ALL TRT4621-1 ASSYS. AND ON ALL OTHER ASSYS. FROM S/N 297 THRU 5685 PLUS S/N 285 AND 286	6839892	1		1	2
30	BALL, DETENT	145657	2	2	4	8
31	PLUG	6774155	1		1	2

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GROUP A CONT

CONTROL VALVE, FIGURE 14
WITH AIR ACTUATED CLUTCH CUTOFF

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
32	GASKET	6772740	1	1	3	10
33	SPRING, DETENT	6770253	2	2	4	8
34	GASKET	6701353	1	1	3	10
35	PLUG	6773618	1		1	2
36	PLUG	444612	1	1	2	3
37-46	NOT USED IN THIS GROUP.					
47	PLUG	444612	1	1	2	3
48	SEAL, GASKET	6880392	1		1	2
49	PLUG	6880391	1		1	2
50	PLUG	444612	1	1	2	3

GROUP B

CONTROL VALVE, FIGURE 14
WITH HYDRAULIC ACTUATED CLUTCH CUTOFF

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

5	VALVE ASSY, CONTROL	6839878	1			1
22	PLUG	6771914	1		1	2
25	CUP	6771913	1	1	3	10
26	PLUG, CUTOFF VALVE	6758306	1		1	2
27	PLUG	444612	1	1	2	3

GROUP C

CONTROL VALVE, FIGURE 14
WITH AIR ACTUATED CLUTCH CUTOFF

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1	GASKET, CONTROL VALVE, USE 6830533 GASKET PRIOR TO S/N 297 EXCEPT 285 AND 286, SEE SPI 653	6831382	1	1	3	10
5	VALVE ASSY, CONTROL, WHEN REPLACING 6830517 CONTROL VALVE ASSY WITH A 6839863 CONTROL VALVE ASSY PRIOR TO S/N 226 AND INCLUDING 228 THRU 232 AND 258 ALSO ORDER 1-6835683 OIL TRANSFER PLATE KIT. 6835683 KIT CONSISTS OF 6835604 PLATE, 6835611 GASKET, 6831382 GASKET, 15-179851 BOLTS, 179843 BOLT AND 16-103321 WASHERS SEE SPI 653.	6839863	1			1
9	BODY, CONTROL VALVE, REPLACE 6773678 CONTROL VALVE BODY WITH 6839889 CONTROL VALVE ASSY. WHEN REPLACING 6773678 CONTROL VALVE BODY WITH 6839889 CONTROL VALVE ASSY PRIOR TO S/N 226 AND INCLUDING 228 THRU 232 AND 258 ALSO ORDER 1-6835683 OIL TRANSFER PLATE KIT. 6835683 CONSISTS OF 6835604 PLATE 6835611 GASKET, 6831382 GASKET, 15-179851 BOLTS, 179843 BOLT AND 16-103321 WASHERS SEE SPI 653. WHEN REPLACING 6831942 BODY WITH 6839889 BODY ALSO ORDER 6880946 CUTOFF VALVE, 6839891 SELECTOR VALVE, 444612 PLUG, 6880391 PLUG AND 6880392 SEAL. WHEN REPLACING 6837939 BODY WITH 6839889 BODY ALSO ORDER 6839891 SELECTOR VALVE, 444612	6839889	1		1	1

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GROUP C CONT

CONTROL VALVE, FIGURE 14
WITH AIR ACTUATED CLUTCH CUTOFF

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
	PLUG, 6880391 PLUG AND 6880392 SEAL.					
13	STOP, VALVE	6773592	1	1		2
29	VALVE, RANGE SELECTOR, USE 6774693 RANGE	6839891	1	1		2
	SELECTOR VALVE PRIOR TO S/N 297 EXCEPT 285 AND 286, SEE SPI 653. USE 6831188 SELECTOR VALVE FROM S/N 297 THRU 5598 AND INCLUDING S/N 285 AND 286					

GROUP D

CONTROL VALVE, FIGURE 14
WITH INCHING CONTROL

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1	GASKET, CONTROL VALVE	6881382	1	1	3	10
5	VALVE ASSY, CONTROL	6839840	1			1
9	BODY, CONTROL VALVE, REPLACE 6775543 CONTROL	6839883	1		1	1
	VALVE BODY WITH 6839840 CONTROL VALVE ASSY, SEE SPI 653. WHEN REPLACING 6837721 BODY WITH 6839883 BODY ALSO ORDER 6839892 SELECTOR VALVE, 444612 PLUG, 6880391 PLUG AND 6880392 SEAL.					
20-27	NOT USED IN THIS GROUP					
37	STOP	6773713	1		1	2
38	SPRING, REGULATOR VALVE	6770298	1	1	2	3
39	VALVE, INCHING REGULATOR	6774599	1		1	2
40	STOP	6774597	1		1	2
41	SPRING, INCHING VALVE, WHEN REPLACING	6838473	1	1	2	3
	6774595 SPRING WITH 6838473 SPRING ALSO ORDER 6838472 VALVE					
42	VALVE, INCHING, WHEN REPLACING 6774598 VALVE	6838472	1		1	2
	WITH 6838472 VALVE ALSO ORDER 6838473 SPRING					
43	SPRING, VALVE RETURN	6774594	1	1	2	3
44	RING, SEAL	6774593	1	1	3	10
45	PLUG	6774596	1		1	2
46	SEAL, OIL	6880484	1	1	3	10

GROUP E

CONTROL VALVE, FIGURE 14
WITH HYDRAULIC ACTUATED CLUTCH CUTOFF

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1	GASKET, CONTROL VALVE, USE 6830533 GASKET PRIOR	6831382	1	1	3	10
	TO S/N 297 EXCEPT 285 AND 286, SEE SPI 653					
5	VALVE ASSY, CONTROL, WHEN REPLACING 6831064	6839862	1			1
	CONTROL VALVE ASSY WITH A 6839862 CONTROL VALVE ASSY PRIOR TO S/N 226 AND INCLUDING 228 THRU 232 AND 258 ALSO ORDER 1-6835683 OIL TRANSFER PLATE KIT. 6835683 KIT CONSISTS OF 6835604 PLATE, 6835611 GASKET, 6831382 GASKET, 15-179851 BOLTS, 179843 BOLT AND 16-103321					

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GROUP E CONT

CONTROL VALVE, FIGURE 14
WITH HYDRAULIC ACTUATED CLUTCH CUTOFF

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
9	WASHERS. SEE SPI 653. BODY, CONTROL VALVE, REPLACE 6773678 CONTROL VALVE BODY WITH 6839862 CONTROL VALVE ASSY. WHEN REPLACING 6773678 CONTROL VALVE BODY WITH 6839862 CONTROL VALVE ASSY PRIOR TO S/N 226 AND INCLUDING 228 THRU 232 AND 258 ALSO ORDER 1-6835683 OIL TRANSFER PLATE KIT. 6835683 KIT CONSISTS OF 6835604 PLATE, 6835611 GASKET, 6831382 GASKET, 15-179851 BOLTS, 179843 BOLT AND 16-103321 WASHERS. SEE SPI 653. WHEN REPLACING 6831942 BODY WITH 6839889 BODY ALSO ORDER 6880946 CUTOFF VALVE, 6839891 SELECTOR VALVE, 444612 PLUG, 6880391 PLUG AND 6880392 SEAL. WHEN REPLACING 6837939 BODY WITH 6839889 BODY ALSO ORDER 6839891 SELECTOR VALVE, 444612 PLUG, 6880391 PLUG AND 6880392 SEAL	6839889	1		1	1
13	STOP, VALVE	6773592	1		1	2
22	PLUG	6771914	1		1	2
25	CUP	6771913	1	1	3	10
26	PLUG, CUTOFF VALVE	6758306	1		1	2
27	PLUG	444612	1	1	2	3
29	VALVE, RANGE SELECTOR, USE 6774693 RANGE SELECTOR VALVE PRIOR TO S/N 297 EXCEPT 285 AND 286, SEE SPI 653. USE 6831188 SELECTOR VALVE FROM S/N 297 THRU 5598 AND INCLUDING S/N 285 AND 286	6839891	1		1	2

GROUP F

CONTROL VALVE, FIGURE 14
WITH HYDRAULIC ACTUATED CLUTCH CUTOFF

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1	GASKET, CONTROL VALVE	6831382	1	1	3	10
5	VALVE ASSY, CONTROL, SEE SPI 18TR77	23011325	1			1
8	VALVE, REGULATOR, USED WITH 6883984 VALVE BODY AND 6835702 SPRING RETAINER ONLY.					
8	VALVE, REGULATOR, USED WITH 23011276 VALVE BODY ONLY.	23011279	1		1	2
9	BODY, CONTROL VALVE, WHEN REPLACING 6837701 BODY WITH 23011276 BODY ALSO ORDER 6839891 SELECTOR VALVE, 6880391 PLUG AND 6880392 SEAL. SEE SPI 18TR77. ALSO ORDER 23011279 REGULATOR VALVE AND DISCARD 6835702 SPRING RETAINER. WHEN REPLACING 6883984 BODY WITH 23011276 BODY ALSO ORDER 23011279 REGULATOR VALVE AND DISCARD 6835702 SPRING RETAINER.	23011276	1		1	2
14	RETAINER, SPRING, USED WITH 6883984 VALVE BODY AND 6831187 VALVE ONLY.	6835702	1			
22	PLUG	6771914	1		1	2
25	CUP	6771913	1	1	3	10
26	PLUG, CUTOFF VALVE	6758306	1		1	2

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GROUP F CONT

CONTROL VALVE, FIGURE 14
WITH HYDRAULIC ACTUATED CLUTCH CUTOFF

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
27	PLUG	444612	1	1	2	3
29	VALVE, RANGE SELECTOR, USE 6831188 SELECTOR . VALVE PRIOR TO S/N 5598	6839891	1		1	2
47	PLUG	444612	1	1	2	3

GROUP G

CONTROL VALVE, FIGURE 14
WITH AIR ACTUATED CLUTCH CUTOFF

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1	GASKET, CONTROL VALVE	6831382	1	1	3	10
5	VALVE ASSY, CONTRDL. SEE SPI 18TR77	23011323	1			1
8	VALVE, REGULATOR, USED WITH 6883984 VALVE BODY AND 6835702 SPRING RETAINER ONLY.					
8	VALVE, REGULATOR, USED WITH 23011276 VALVE . . BODY ONLY.	23011279	1		1	2
9	BODY, CONTROL VALVE, WHEN REPLACING 6837701 . BODY WITH 23011276 BODY ALSO ORDER 6839891 SELECTOR VALVE, 6880391 PLUG AND 6880392 SEAL. SEE SPI18TR77. ALSO ORDER 23011279 REGULATOR VALVE AND DISCARD 6835702 SPRING RETAINER. WHEN REPLACING 6883984 BODY WITH 23011276 BODY ALSO ORDER 23011279 REGULATOR VALVE AND DISCARD 6835702 SPRING RETAINER.	23011276	1		1	2
14	RETAINER, SPRING USED IN 6883984 VALVE BODY AND WITH 6831187 VALVE ONLY.	6835702	1			
29	VALVE, RANGE SELECTOR, USE 6831188 SELECTOR . VALVE PRIOR TO S/N 5598	6839891	1		1	2
47	PLUG	444612	1	1	2	3

GROUP H

CONTROL VALVE, FIGURE 14
WITH AIR ACTUATED CLUTCH CUTOFF

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1	GASKET, CONTROL VALVE	6831382	1	1	3	10
5	VALVE ASSY, CONTRDL. SEE SPI 18TR77	23011326	1			1
8	VALVE, REGULATOR, USED WITH 6883987 VALVE BODY AND 6835702 SPRING RETAINER	6831187	1		1	2
8	VALVE, REGULATOR, USED WITH 23011278 VALVE BODY ONLY					
9	BODY, CONTROL VALVE, WHEN REPLACING 6837720 . BODY WITH 23011278 BODY ALSO ORDER 6839892 SELECTOR VALVE, 6880391 PLUG AND 6880392 SEAL. SEE SPI 18TR77. ALSO ORDER 1-23011279 REGULATOR VALVE AND DISCARD 1-6835702 SPRING RETAINER. WHEN REPLACING 6883987 BODY WITH 23011278 BODY ALSO ORDER 1- 23011279 REGULATOR VALVE AND DISCARD	23011278	1		1	1

CONTINUED ON NEXT PAGE

GROUP H CONT

CONTROL VALVE, FIGURE 14
WITH AIR ACTUATED CLUTCH CUTOFF

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
	6835702 SPRING RETAINER.					
14	RETAINER SPRING, USED IN 6883987 VALVE BODY .	6835702	1			
	AND WITH 6831187 VALVE ONLY.					
47	PLUG	444612	1	1	2	3

GROUP J

CONTROL VALVE, FIGURE 14

WITH AIR ACTUATED CLUTCH CUTOFF

1	GASKET, CONTROL VALVE	6831382	1	1	3	10
5	VALVE ASSY, CONTROL	23011503	1			1
8	VALVE, REGULATOR	23011279	1		1	2
9	BODY, CONTROL VALVE	23011278	1			1
14	NOT USED IN THIS GROUP					
15	SPRING, REGULATOR VALVE	6835377	1	1	2	3
27	PLUG	6759405	1	1	2	3
33	SPRING, DETENT	6833934	1	1	2	3

GROUP K

CONTROL VALVE, FIGURE 14

WITH HYDRAULIC ACTUATED CLUTCH CUTOFF

1	GASKET, CONTROL VALVE	6831382	1	1	3	10
5	VALVE ASSY, CONTROL	23011470	1			1
8	VALVE, REGULATOR	23011279	1		1	2
9	BODY, CONTROL VALVE	23011278	1			1
14	NOT USED IN THIS GROUP					
20	SPRING	6758503	1	1	2	3
22	PLUG	6771914	1		1	2
25	CUP	6771913	1	1	3	10
26	PLUG	6758306	1		1	2
27	PLUG	444612	1	1	2	3
33	SPRING, DETENT	6833934	1	1	2	3

POWER TAKEOFF SECTION

TO FIND DETAIL PARTS FOR YOUR ALLISON POWERSHIFT TRANSMISSION, TURN TO THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
6778502	TT4420-1	A	6838149	TT 4420-1	A
6778503	TT4420-1	A	6838755	CT 4420-1	B
6778504	TRT4420-1	A	6838932	TRT 4621-1	A
6778505	TT4420-1	A	6839015	TT 4420-1	B
6778506	TRT4621-1	A	6839016	TRT 4420-1	B
6778850	TRT4420-1	A	6839066	TRT 4420-1	A
6778851	TRT4420-1	A	6839529	TT 4720-1	C
6779472	TRT4420-1	B	6839530	TT 4720-1	C
6779473	TRT4420-1	A	6839531	TT 4720-1	D
6779787	TRT4621-1	A	6839532	TT 4720-1	C
6779877	TRT4420-1	B	6839533	TT 4720-1	D
6830564	TRT4621-1	A	6839535	TRT 4820-1	C
6830580	TRT4420-1	A	6839536	TRT 4820-1	C
6830653	TRT4621-1	B	6839537	TRT 4820-1	D
6830694	TT4420-1	A	6839538	TRT 4820-1	C
6830749	TRT4621-1	A	6839606	TRT 4621-1	A
6830750	TRT4621-1	A	6839751	TRT 4620-1	A
6831146	TT4420-1	B	6839827	TRT 4820-1	C
6831386	TT 4420-1	B	6839828	TT 4720-1	C
6831397	TRT4621-1	A	6839934	TRT 4820-1	C
6831802	TRT 4420-1	A	6830119	CRT 4420-1	B
6831832	TRT 4620-1	B	6880580	TT 4720-1	C
6831834	TRT 4420-1	A	6880637	TRT 4820-1	D
6831887	TRT 4420-1	A	6880651	TRT 4820-1	C
6832150	TRT 4621-1	A	6880821	TRT 4820-1	C
6832151	TRT 4420-1	A	6880963	TRT 4820-1	C
6832448	TT 4420-1	A	6881065	TRT 4820-1	C
6832449	TRT 4420-1	B	6881422	TRT 4820-1	D
6832600	TRT 4621-1	A	6881432	TRT 4820-1	C
6832690	TRT 4621-1	B	6881444	TRT 4820-1	C
6833334	TT 4420-1	B	6881811	TRT 4820-1	C
6833387	TRT 4620-1	A	6882364	TRT 4820-1	C
6834142	TT 4420-1	B	6882740	TT 4820-1	C
6834832	TT 4420-1	A	6883301	TT 4720-1	C
6834954	TRT 4420-1	B	6883512	TRT 4820-1	D
6835026	TT 4420-1	A	6883569	TT 4720-1	C
6835206	TRT 4420-1	A	6883590	TRT 4820-1	C
6835617	TRT 4420-1	A	6883992	TRT 4820-1	C
6835686	TRT 4420-1	A	6884285	TRT 4820-1	C
6835828	TT 4420-1	A	6885375	TRT 4820-1	C
6835991	TT 4420-1	A	6885405	TRT 4820-1	C
6836187	TRT 4621-1	B	6885527	TT 4720-1	C
6836629	TRT 4621-1	A	6885541	TRT 4820-1	C
6836795	TRT 4621-1	B	23010838	TT 4720-1	C
6836975	TRT 4621-1	A	23010839	TT 4720-1	C
6836987	TT 4420-1	A	23010840	TRT 4820-1	C
6837148	TRT 4621-1	B	23011460	TRT 4820-1	C
6837245	TRT 4621-1	A	23011461	TRT 4820-1	C
6837680	TRT 4620-1	A	23011477	TRT 4821-1	C
6837861	TRT 4420-1	A	23011478	TRT 4821-1	C

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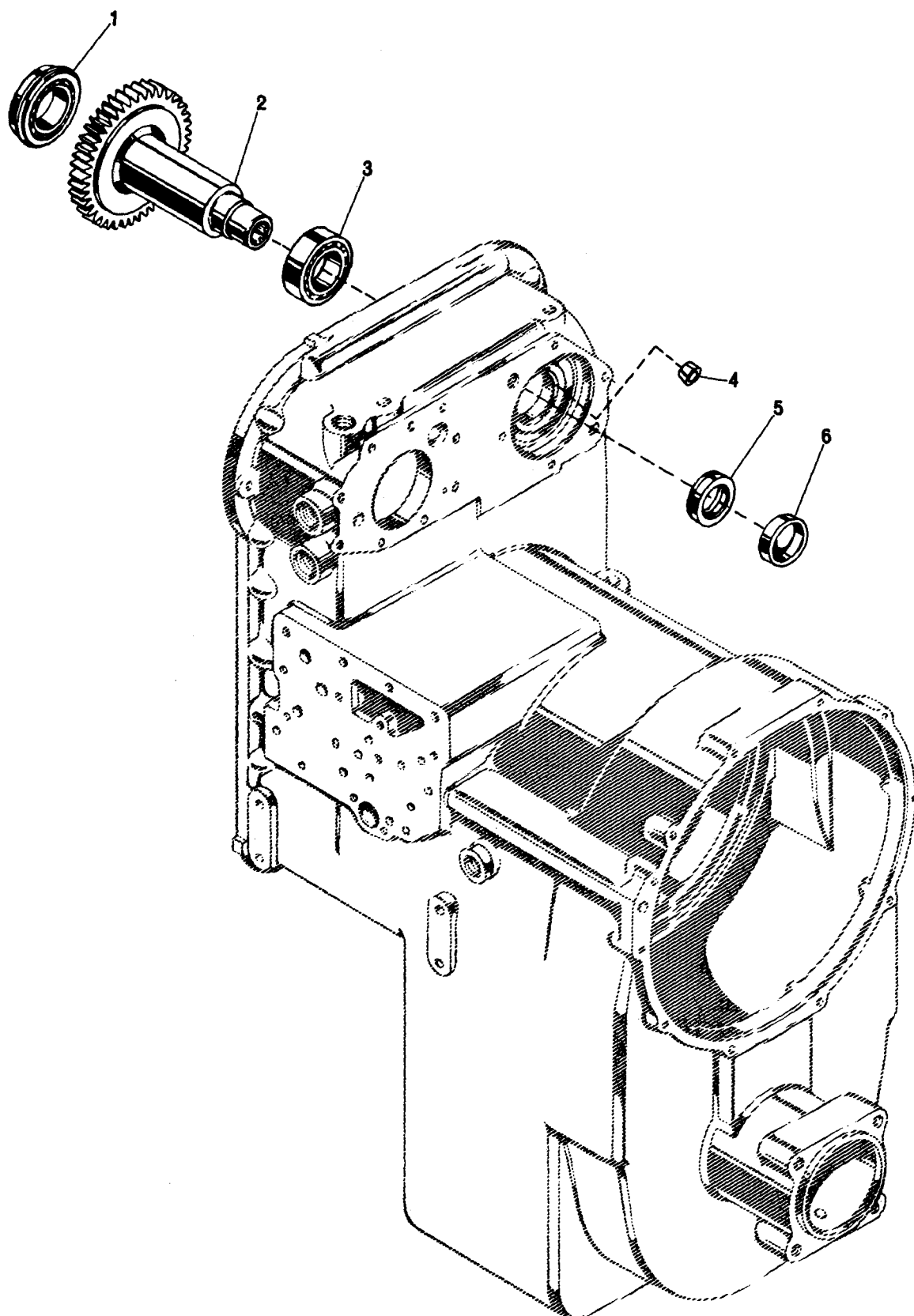
* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE

POWER TAKEOFF SECTION

TO FIND DETAIL PARTS FOR YOUR ALLISON POWERSHIFT TRANSMISSION, TURN TO
THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
23011479	TRT 4821-1	C	23011492	TT 4721-1	D
23011480	TRT 4821-1	C	23011493	TT 4721-1	C
23011481	TRT 4821-1	C	23011494	TRT 4821-1	C
23011482	TRT 4821-1	C	23011534	TRT 4820-1	C
23011483	TRT 4821-1	C	23012060	TRT 4821-1	C
23011484	TRT 4821-1	C	23012247	TRT 4820-1	D
23011485	TRT 4821-1	C	23012398	TRT 4821-1	C
23011486	TRT 4821-1	C	23012399	TT 4721-1	C
23011487	TRT 4821-1	C	23012400	TRT 4821-1	D
23011488	TRT 4821-1	C	23012401	TRT 4821-1	C
23011489	TT 4721-1	C	23012481	TRT 4820-1	D
23011490	TT 4721-1	C	23012683	TRT 4821-1	C
23011491	TT 4721-1	D	23012781	TRT 4821-1	D

* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE



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FIG. 15. POWER TAKEOFF

GROUP A

POWER TAKEOFF, FIGURE 15

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	BEARING, SINGLE ROW BALL, MRC 210-SG-LO	9437255	1	1	2	5
2	GEAR, ACCESSORY DRIVEN, 1 TO 1 RATIO	6778523	1		1	2
3	BEARING, SINGLE ROW BALL, MRC 209-S-LO	9437254	1	1	2	5
4	NOT USED IN THIS GROUP					
5	SEAL, OIL	23013719	1	1	3	10
6	NOT USED IN THIS GROUP					

GROUP B

POWER TAKEOFF, FIGURE 15

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

1-5	NOT USED IN THIS GROUP					
6	PLUG, ACCESSORY DRIVE ORIFICE	6758185	1		1	2

GROUP C

POWER TAKEOFF, FIGURE 15

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2	GEAR, ACCESSORY DRIVEN, 1 TO 1 RATIO. WHEN REPLACING 6839947 GEAR WITH 6881866 GEAR ALSO ORDER 6881867 INPUT ACCESSORY DRIVE GEAR AND 6881868 ACCESSORY DRIVEN GEAR	6881866	1		1	2
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GROUP D

POWER TAKEOFF, FIGURE 15

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

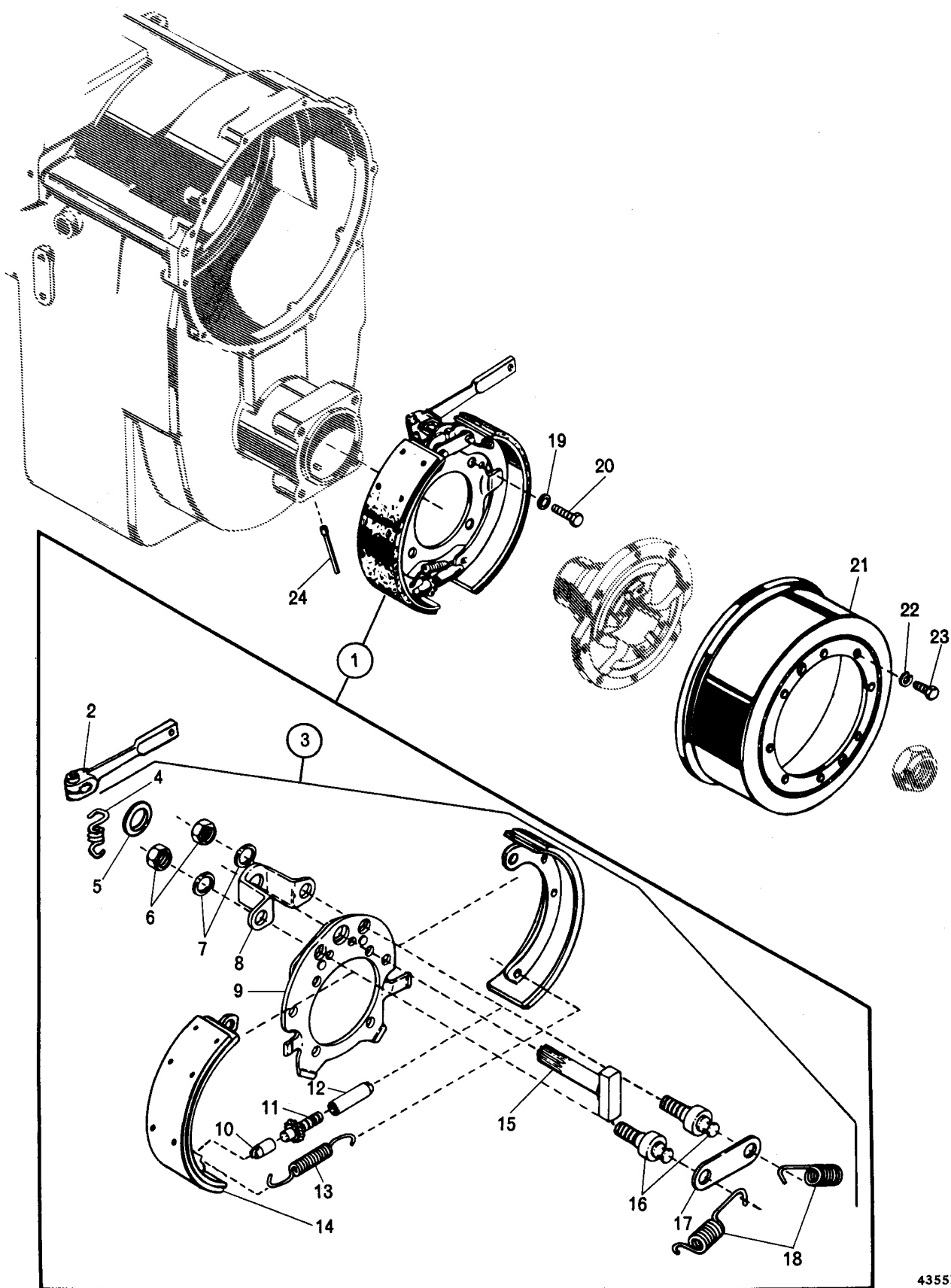
1-3	NOT USED IN THIS GROUP					
4	PLUG, CUP	6833947	1			1
5	NOT USED IN THIS GROUP					
6	PLUG, ORIFICE, ACCESSORY DRIVE	6758185	1		1	2

PARKING BRAKE SECTION

TO FIND DETAIL PARTS FOR YOUR ALLISON POWERSHIFT TRANSMISSION, TURN TO THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
6778502	TT4420-1	A	6839538	TRT 4820-1	A
6778503	TT4420-1	A	6839606	TRT 4621-1	A
6778505	TT4420-1	A	6839934	TRT 4820-1	A
6778850	TRT4420-1	A	6880580	TT 4720-1	A
6779472	TRT4420-1	A	6880651	TRT 4820-1	A
6779473	TRT4420-1	A	6880821	TRT 4820-1	A
6830564	TRT4621-1	A	6881432	TRT 4820-1	A
6830749	TRT4621-1	A	6881444	TRT 4820-1	A
6830750	TRT4621-1	A	6881811	TRT 4820-1	A
6831146	TT4420-1	A	6832364	TRT 4820-1	A
6831386	TT 4420-1	A	6883301	TT 4720-1	A
6831397	TRT4621-1	A	6883569	TT 4720-1	A
6831802	TRT 4420-1	A	6883590	TRT 4820-1	A
6831832	TRT 4620-1	A	6885375	TRT 4820-1	A
6831834	TRT 4420-1	A	6885405	TRT 4820-1	A
6832150	TRT 4621-1	A	6885527	TT 4720-1	A
6832151	TRT 4420-1	A	23010838	TT 4720-1	A
6832448	TT 4420-1	A	23010839	TT 4720-1	A
6833334	TT 4420-1	A	23010840	TRT 4820-1	A
6833387	TRT 4620-1	A	23011460	TRT 4820-1	A
6834142	TT 4420-1	A	23011461	TRT 4820-1	A
6834954	TRT 4420-1	A	23011478	TRT 4821-1	A
6835208	TRT 4420-1	A	23011480	TRT 4821-1	A
6835617	TRT 4420-1	A	23011483	TRT 4821-1	A
6835686	TRT 4420-1	A	23011484	TRT 4821-1	A
6836629	TRT 4621-1	A	23011488	TRT 4821-1	A
6836975	TRT 4621-1	A	23011489	TT 4721-1	A
6837245	TRT 4621-1	A	23011490	TT 4721-1	A
6837680	TRT 4620-1	A	23011493	TT 4721-1	A
6837861	TRT 4420-1	A	23011494	TRT 4821-1	A
6838149	TT 4420-1	A	23011534	TRT 4820-1	A
6838932	TRT 4621-1	A	23012060	TRT 4821-1	A
6839529	TT 4720-1	A	23012399	TT 4721-1	A
6839530	TT 4720-1	A	23012401	TRT 4821-1	A
6839532	TT 4720-1	A	23012683	TRT 4821-1	A
6839536	TRT 4820-1	A			

* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE



4355B

FIG. 16. PARKING BRAKE

GROUP A

PARKING BRAKE, FIGURE 16

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	KIT, BRAKE ASSY, MECHANICAL ACTUATED, BENDIX . . . 12X3. 6882208 KIT CONSISTS OF 6881947 BRAKE ASSY AND 6882207 INSTRUCTION SHEET	6882208	1KIT			1
2	LEVER ASSY	6831292	1		1	1
3	BRAKE ASSY	6831291	* 1			
4	SPRING, USED WITH 6775399 BRAKE ASSY, OPTIONAL ON 6881947 BRAKE ASSY.	2410296	1	1	2	3
5	WASHER	2405951	1		1	1
6	NUT, HX, 3/4-16	218197	2	2	4	6
7	WASHER, LOCK, 3/4	103326	2	2	4	6
8	BRACKET, CAMSHAFT SUPPORT, WHEN REPLACING . . . 1-2400596 BRACKET WITH 1-6831294 BRACKET ALSO ORDER 1-6831293 CAMSHAFT	6831294	1		1	1
9	PLATE, BRAKE SUPPORT	2399044	1		1	1
10	SOCKET, ADJUSTING SPRING	2344798	1		1	1
11	SCREW, ADJUSTING	6830410	1		1	1
12	NUT, ADJUSTING SCREW	2344802	1		1	1
13	SPRING	2344799	1	1	2	3
14	SHOE AND LINING	2399045	2	2	4	8
15	CAMSHAFT, WHEN REPLACING 1-2400595 CAMSHAFT WITH 1-6831293 CAMSHAFT ALSO ORDER 1-6831294 BRACKET	6831293	1		1	1
16	PIN, ANCHOR	2399049	2		2	2
17	BRACE, ANCHOR PIN	2399050	1		1	1
18	SPRING	2399048	2	2	4	6
19	WASHER, LOCK, INTERNAL TOOTH, 5/8	115553	4	4	8	12
20	BOLT, HX HD, 5/8-11 X 1.38	6772110	4	4	8	12
21	DRUM, BRAKE, 12 X 3	6776455	1		1	2
22	WASHER, LOCK, 1/2	103323	8	8	16	24
23	BOLT, HX HD, 1/2-20 X 1	181427	8	8	16	24
24	TUBE, DRAIN	6769580	1		1	2

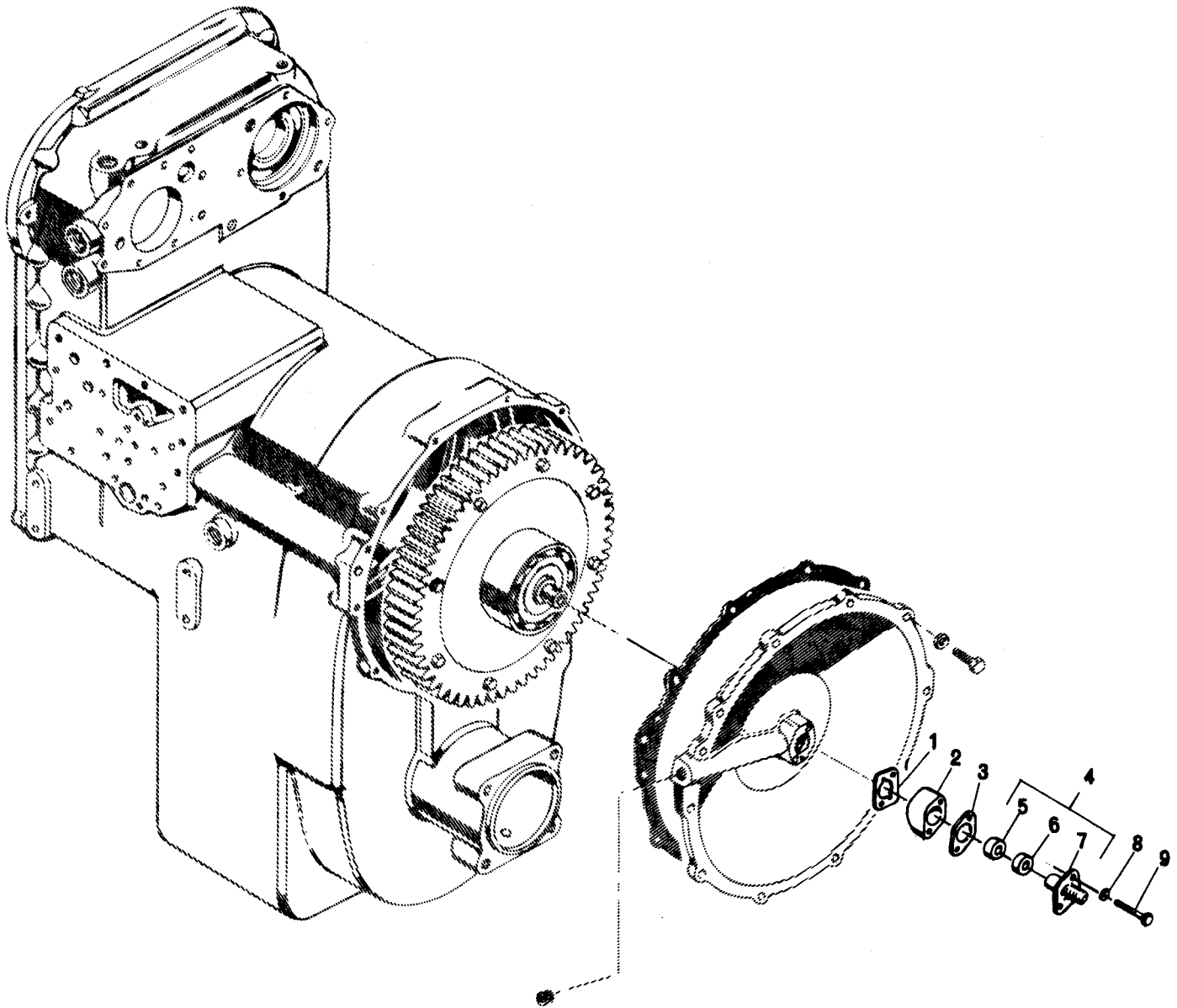
* SERVICED AS AN ASSY - NOT AS A DETAIL PART

SPEEDOMETER DRIVE SECTION

TO FIND DETAIL PARTS FOR YOUR ALLISON POWERSHIFT TRANSMISSION, TURN TO
THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
6779877	TRT 4420-1	A	6881811	TRT 4820-1	A
6832690	TRT 4621-1	A	6882740	TT 4820-1	A
6836975	TRT 4621-1	A	6883301	TT 4720-1	A
6838149	TT 4420-1	A	6883512	TRT 4820-1	A
6839532	TT 4720-1	A	6883569	TT 4720-1	A
6839751	TRT 4620-1	A	23010838	TT 4720-1	A
6880580	TT 4720-1	A	23010839	TT 4720-1	A
6881422	TRT 4820-1	A			

* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE



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FIG. 17. SPEEDOMETER DRIVE

GROUP A

SPEEDOMETER DRIVE, FIGURE 17

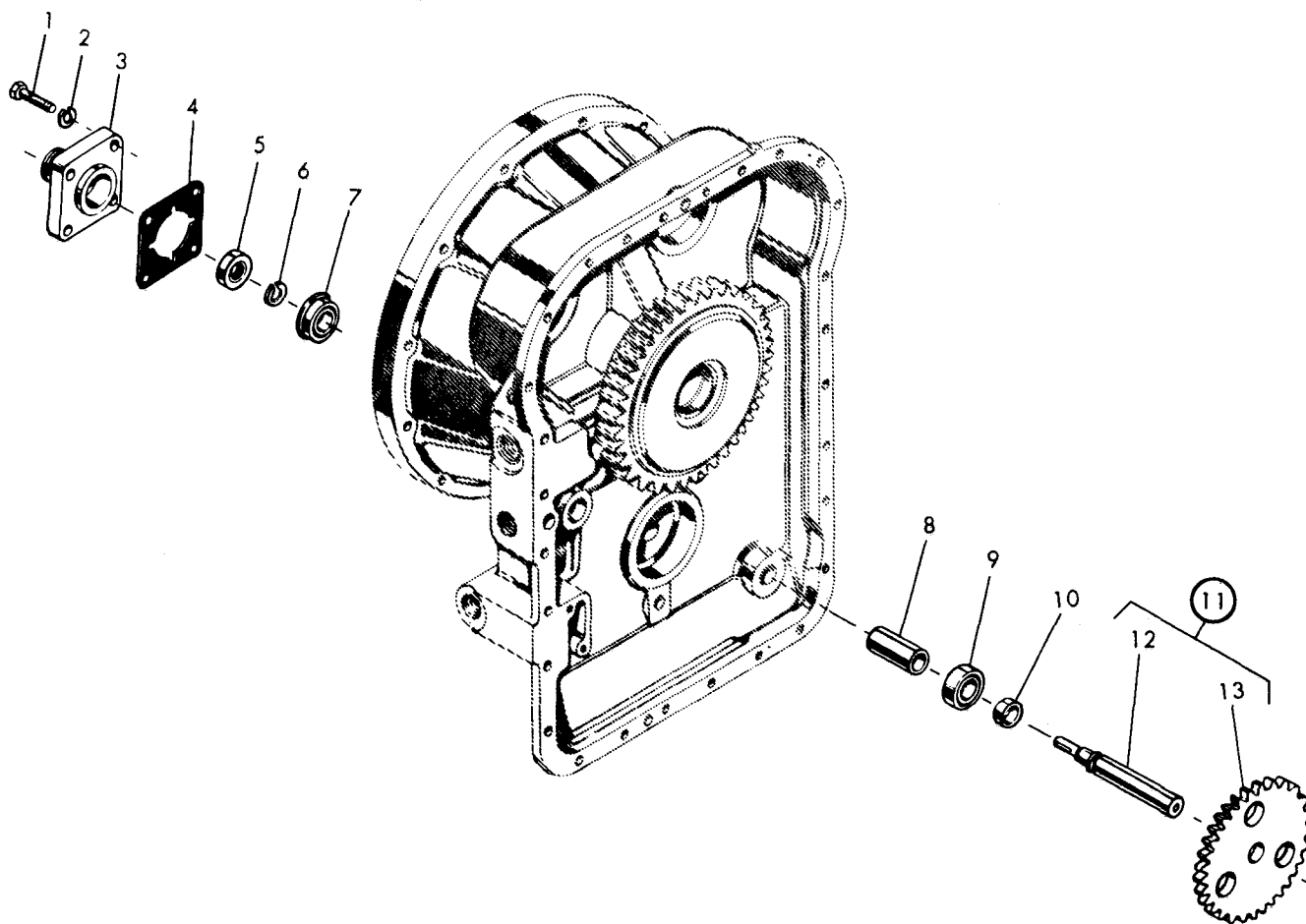
REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	GASKET, SPEEDOMETER DRIVE ADAPTER	6775819	1	1	3	10
2	ADAPTER, SPEEDOMETER DRIVE	6775818	1			1
3	GASKET	552868	1	1	3	10
4	SLEEVE ASSY, SPEEDOMETER DRIVE	6768536	1		1	2
5	SEAL, OIL	6768417	1	1	3	10
6	WASHER	6768418	1	1	2	4
7	SLEEVE	2043587	1	1	2	4
8	WASHER	103320	2	2	4	6
9	BOLT, HX HD, 5/16-18 X 2 1/4	179827	2	2	4	6

GOVERNOR DRIVE SECTION

TO FIND DETAIL PARTS FOR YOUR ALLISON POWERSHIFT TRANSMISSION, TURN TO
THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
6779877	TRT4420-1	A	6830564	TRT4621-1	A

* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE



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FIG. 18. GOVERNOR DRIVE

GROUP A

GOVERNOR DRIVE, FIGURE 18

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	BOLT, HX HD, 5/16 X 1 1/8	179819	4	4	8	12
2	WASHER, LOCK, 5/16	103320	4	4	8	12
3	ADAPTER, GOVERNOR DRIVE	6752033	1			1
4	GASKET, ADAPTER	3224773	1	1	3	10
5	SEAL	6752035	1	1	3	10
6	RING, SNAP	8894450	1	1	2	5
7	BEARING, SINGLE ROW BALL, ND43L02X1A	907801	1	1	2	5
8	SPACER	6777723	1		1	2
9	BEARING, SINGLE ROW BALL, ND3L02X1A	903002	1	1	2	5
10	SPACER	6777724	1	1	2	3
11	GEAR AND SHAFT ASSY, GOVERNOR DRIVE	6778528	1		1	2
12	SHAFT	6777726	* 1			
13	GEAR	6778529	* 1			

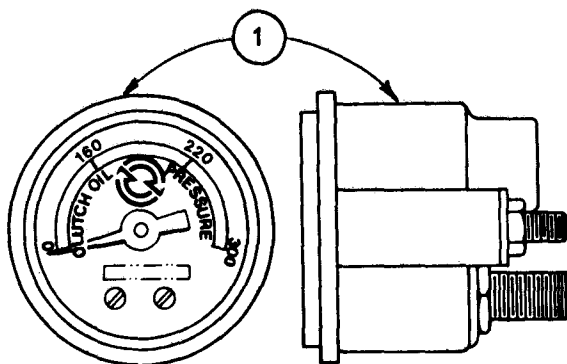
* SERVICED AS AN ASSY - NOT AS A DETAIL PART

MISCELLANEOUS OPTIONS SECTION

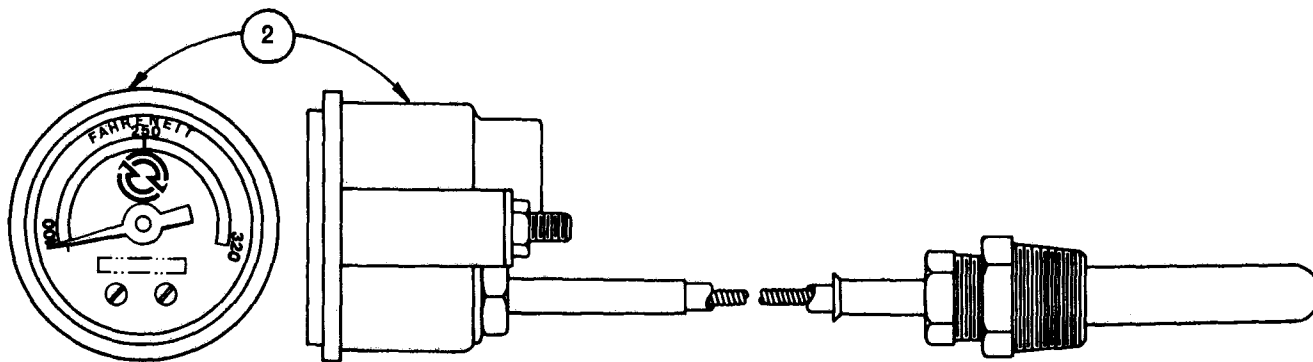
THESE PARTS ARE OPTIONAL ON ALL POWERSHIFT
TRANSMISSIONS LISTED IN THIS CATALOG.

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
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* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE



CLUTCH OIL PRESSURE GAGE



OIL TEMPERATURE GAGE

FIG. 19. CLUTCH OIL PRESSURE GAGE, OIL TEMPERATURE GAGE

CLUTCH OIL PRESSURE GAGE, FIGURE 19

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	GAGE, CLUTCH OIL PRESSURE	6838454	1	1	2	3

OIL TEMPERATURE GAGE, FIGURE 19

2	GAGE, OIL TEMPERATURE W/10 FOOT CAPILLARY	6838457	1	1	2	3
2	GAGE, OIL TEMPERATURE W/6 FOOT CAPILLARY	6838458	1	1	2	3
2	GAGE, OIL TEMPERATURE W/4 FOOT CAPILLARY	6838459	1	1	2	3

Subject: Release of New Control Valve Body Assemblies and Related Parts

Equipment Affected: TT and TRT 4000 Series Transmissions

Section #1

Effective Serial Numbers:

TT, TRT 4000

297 Exception: Transmission S/N 285 and 286 also conform.

New control valve body assemblies have been released for all models of the subject transmissions. The body assemblies incorporate major design changes in the hydraulic system to provide improved shift characteristics for both range and directional shifts.

The oil pressure schedules remain the same. The pressures are stated in the pertinent Transmission Service Manual.

Part Number changes are as follows:

<u>New Part No.</u>	<u>Old Part No.</u>	<u>Part Name</u>	<u>Series Affected</u>
6831227	6777389	Body Assy., Control Valve	TRT 4000
6831230	6830517	Body Assy., Control Valve	TT 4000
6831231	6830518	Body Assy., Control Valve	TRT 4000
6831233	6830758	Body Assy., Control Valve	TRT 4000
6831234	6831064	Body Assy., Control Valve	TT 4000
6831185	6773678	Detail Body, Control Valve	TT 4000
6831942	6831185	Detail Body, Control Valve	TT 4000
6831190	6776897	Detail Body, Control Valve	TRT 4000
6831943	6831190	Detail Body, Control Valve	TRT 4000
6831191	6775543	Detail Body, Control Valve	TRT 4000
6831944	6831191	Detail Body, Control Valve	TRT 4000
6831188	6774693	Valve Selector	TT 4000
6831189	6773589	Valve Selector	TRT 4000
6773592	6775542	Stop, Valve	TRT 4000
6831187	6776971	Valve, Main Regulator	TT, TRT 4000
6830916	6830292	Spring, Main Regulator	TT, TRT 4000
6830365	6773593	Spring, Trimmer	TT, TRT 4000
	6775530	Plug, Trimmer	TT, TRT 4000
6831382	6830533	Gasket, Control Body	TT 4000
6831383	6830533	Gasket, Control Body	TRT 4000
6831357	6830532	Housing Assy., Trans.	TT 4000
6831352	6830531	Housing, Transmission	TT 4000

Interchangeability Affected

All new parts may be used on transmissions prior to the Effective Serial Number listed on Page 1, but must be used together.

NOTE: To use new control valve body assembly on TT 4000 models below S/N 227 plus transmission S/N 228 thru 232 and 258, a Service Kit P/N 6835683 must also be used. This kit has been released and is available to eliminate the requirement for a new transmission housing assembly P/N 6831357 on these model transmissions, as previously dictated. The new Service Kit contains the following parts, required in addition to control valve body assembly for complete interchangeability.

<u>Part No.</u>	<u>Part Name</u>	<u>Qty.</u>
6835604	Plate, Oil Transfer	1
6835611	Gasket, Plate	1
6831382	Gasket, Valve Body	1
179851	Bolt, 3/8-16 x 3	15
179843	Bolt, 3/8-16 x 1-1/2	1
103321	Washer, 3/8 Lock	16

Spare Parts Information

Following oil parts will be maintained for servicing transmissions prior to the Effective Serial Number.

<u>Part No.</u>	<u>Part Name</u>
6830533	Gasket, Control Body (For TT 4000 Models Only)
6776971	Valve, Main Regulator
6830292	Spring, Main Regulator
6773593	Spring, Trimmer
6774693	Valve, Selector
6773589	Valve, Selector
6775542	Stop, Valve
6775530	Plug, Trimmer

All remaining old parts are completely canceled except control valve bodies P/N 6831190 and 6831191 which are used on other transmission assemblies above the Effective Serial Number.

Rev. "E" Section #2

New control valve bodies have been released for all models of the subject transmissions. The valve body assemblies incorporate a provision for use of a neutral start switch, if desired.

Effective Serial Number:

TT, TRT 4000

S/N 5598	Valve Body Assy. P/N 6839877, 6839879, 6839852 and 6839854
S/N 5685	Valve Body Assy. P/N 6839876, 6839878, 6839842 and 6839855

Part Number Changes Are As Follows:

<u>New Part No.</u>	<u>Old Part No.</u>	<u>Part Name</u>	<u>Series Affected</u>
6839852	6837736	Body Assy., Control Valve	4000
6839854	6837738	Body Assy., Control Valve	4000
6839855	6837804	Body Assy., Control Valve	4000
6839876	6837928	Body Assy., Control Valve	4000
6839877	6837931	Body Assy., Control Valve	4600
6839878	6837932	Body Assy., Control Valve	4000
6839879	6837934	Body Assy., Control Valve	4000
6839887	6837701	Detail Body, Control Valve	4000
6839883	6837721	Detail Body, Control Valve	4000
6839888	6837720	Detail Body, Control Valve	4000
6839891	6831188	Valve, Selector	4000
6839892	6831189	Valve, Selector	4000
6880946	6837700	Valve, Clutch Cutoff	4000
6880391	445090	Plug	4000
6880392	6778306	Washer - Seal	4000

NOTE: Please use the numerical parts history index, located in the back of the parts catalog in order to determine any P/N changes which may have occurred after the changes listed in Section I and prior to changes listed in Section 2.

Interchangeability Affected

All new parts may be used on transmissions prior to the Effective Serial Number break in Section 2, but must be used together, with the following exceptions:

On transmissions prior to the Effective Serial Numbers listed in Section 1, when replacement of the Detail Valve Body is required, order the latest configuration Valve Body Assembly as reflected in Section 2 of this Service Information Letter.

On 4000 Series transmissions prior to S/N 5391, when replacement of the Detail Valve Body is required, order the latest configuration Detail Valve Body, as reflected in Section 2 of this Service Information Letter, and one each of the following.

Plug	P/N 6880391
Washer Seal	P/N 6880392
Valve, Clutch Cutoff	P/N 6880946 (Clutch Cutoff V B Assys. Only)
Valve, Selector	(See Table Below)

On 4000 Series transmissions after S/N 5391, but prior to the Effective Serial Numbers listed in Section 2, when replacement of the Detail Valve Body is required, order the latest configuration Detail Valve Body as reflected in Section 2 of this Service Information Letter, and one each of the following.

Plug	P/N 6880391
Washer Seal	P/N 6880392
Valve, Selector	P/N (See Table Below)

<u>Selector Valve P/N</u>	<u>used on</u>	<u>Detail Valve Body P/N's</u>
6839891		6839887
6839892		6839883 and 6839888

Installation Affected

The new Detail Valve Bodies have a few dimensional differences, which may or may not affect the installation, depending on the various applications. See Figure 1 for the dimensional changes. Also, please note the clearance required for removal of the neutral start switch, if used.

Spare Parts Information

Following old parts numbers will be maintained for servicing transmissions prior to the Effective Serial Number in Section 2, but after the Effective Serial Numbers listed in Section 1.

Part Number

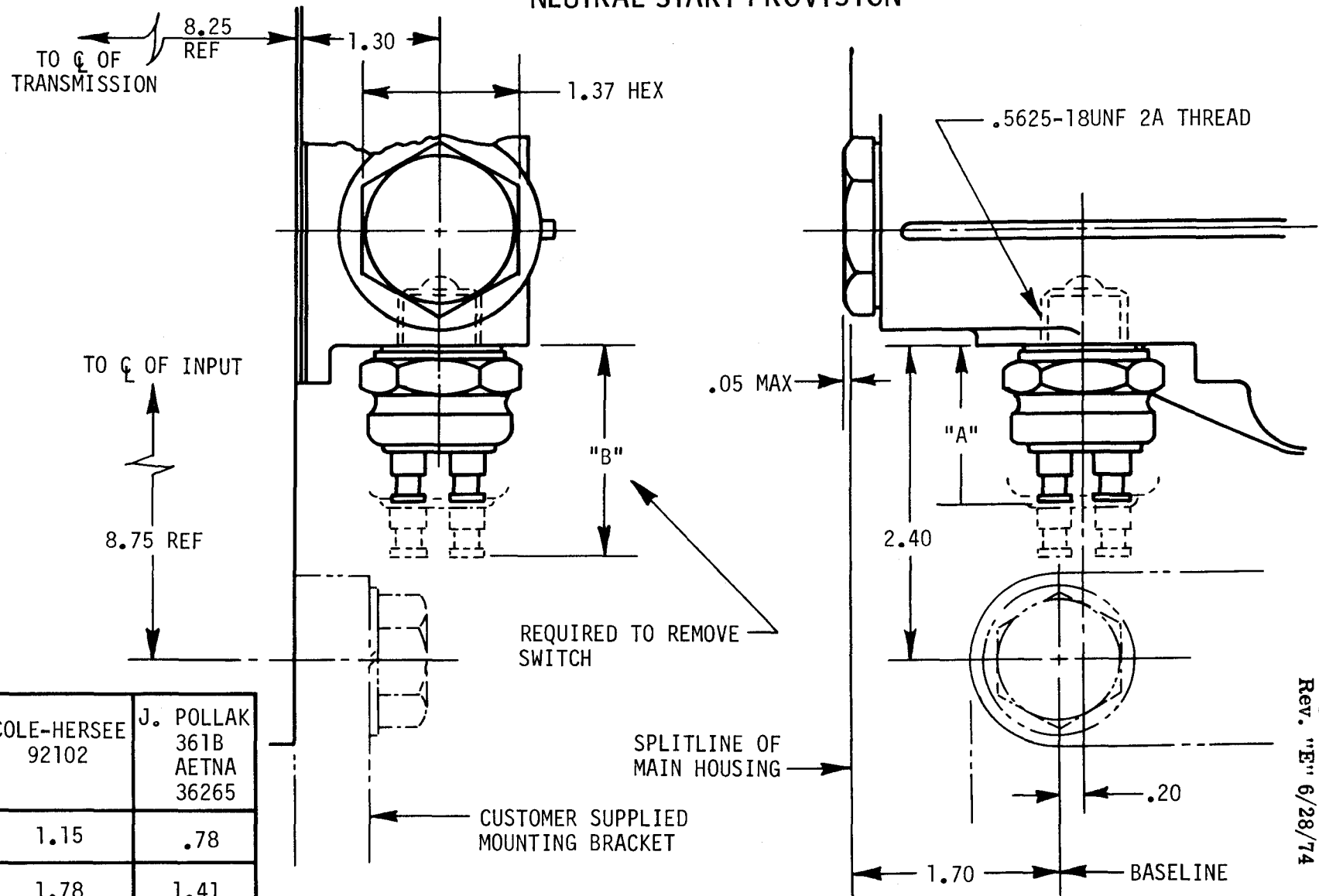
6831188	Valve, Selector
6831189	Valve, Selector
445090	Plug (used on other model trans.)
6778306	Washer, Seal (used on other model trans.)

All remaining old parts listed in Section 2 are completely cancelled.

Service Manager - Transmissions Operations

FIGURE 1

NEUTRAL START PROVISION



DIM.	COLE-HERSEE 92102	J. POLLAK 361B AETNA 36265
A	1.15	.78
B	1.78	1.41

Subject: Release of Snapping to Facilitate Transmission Assembly Procedure

Equipment Affected: TRT 4000 Series Transmissions

The low-range clutch hub assembly, high range planetary sun gear and splined thrust washer are installed as an assembly, when rebuilding the subject transmissions. Refer to Figure 1. To insure the sun gear and thrust washer remaining on the clutch hub during this "blind" assembly, a snapping P/N 6704351 will be used. A groove on the clutch hub is added to accept the new snapping. Previously, the splined thrust washer was "staked" at two places against the hub splines to retain the parts.

Interchangeability Not Affected

Parts interchangeability is not affected by these changes.

Part number of the low range clutch hub remains the same.

Service Manager - Transmissions Operations

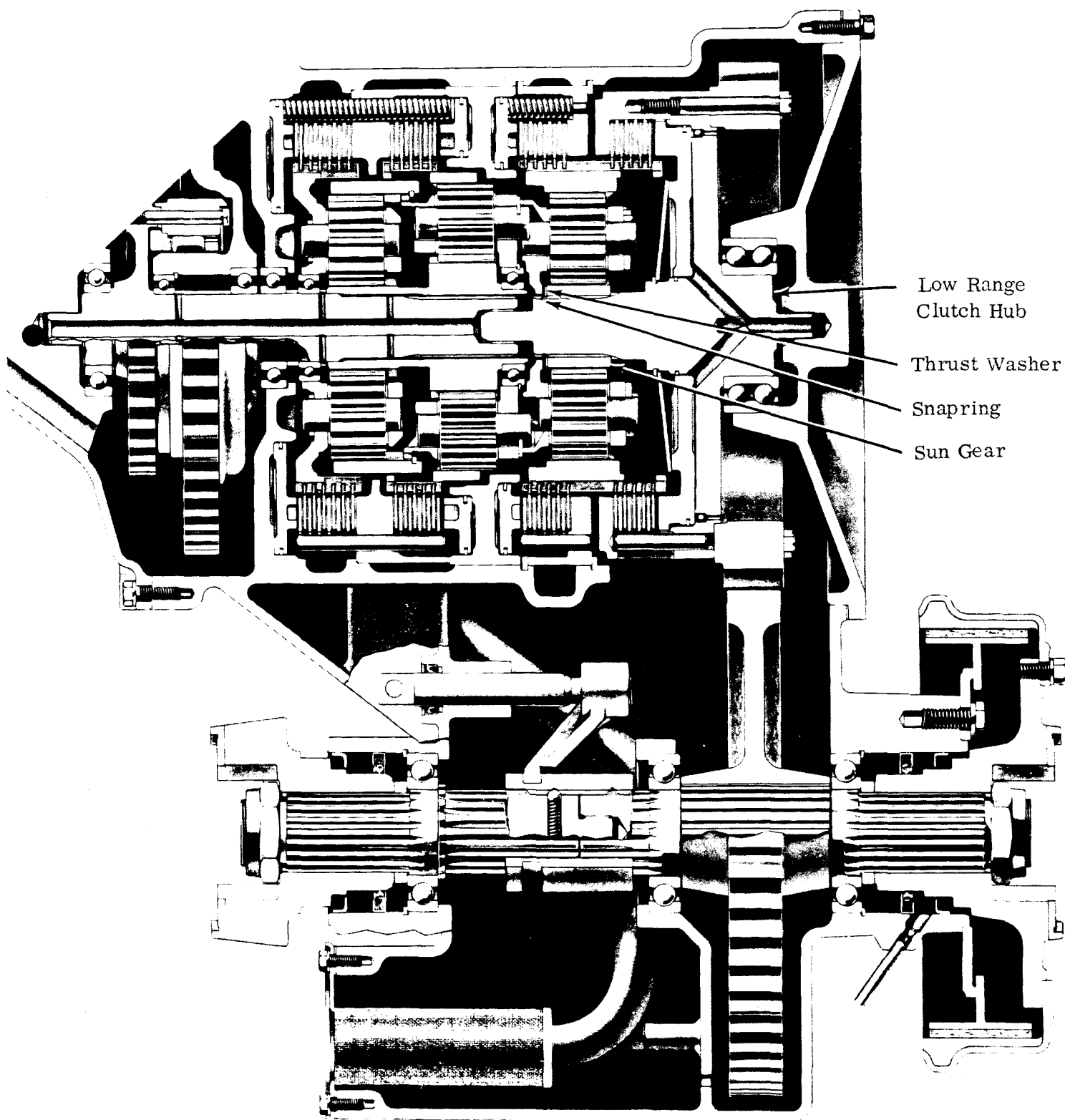


FIG. 1. TRT TRANSMISSION - PARTIAL CROSS SECTION

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Rev. "A" 6/27/68

Subject: Freewheel Clutch Improvements

Equipment Affected: TT, TRT-4000 Series Transmissions

Effective Serial Number: 1405

As a product improvement, several material and design changes of the freewheel clutch have been made. The new cage is made of steel; reflects closer roller-to-cage functional clearances and improved wear characteristics. Quantity of cage return springs has been increased for a more responsive action. Similar changes in mating components have improved the overall reliability and durability of the freewheel unit. Extensive operations of this new configuration reflect a very satisfactory service life, plus dependability.

The part number changes necessary are as follows:

<u>New Part No.</u>	<u>Old Part No.</u>	<u>Qty.</u>	<u>Part Name</u>
6833866	6833501	1	Cage, Freewheel Roller
6834001	6778230	1	Cam, Freewheel
6833228		14	Spring, Freewheel Roller
	6755907	3	Spring, Freewheel Roller
6833503	6831377	1	Plate, Spring Retainer
6833867		1	Plate, Cage Retainer

Interchangeability

The new parts may be used on transmissions prior to the Effective Serial Number but must be used together.

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Page 2 of 2
Rev. "A" 6/27/68

NOTE: Service kit P/N 6833614 has been released and is available for servicing transmissions prior to the Effective Serial Number. The kit contains all of the new parts listed above, plus new replacement freewheel rollers. An Instruction Sheet in the kit relates the necessary instructions for assembling a freewheel unit, using the new parts.

Spare Parts Information

Spring P/N 6756907 and spring plate P/N 6831377 will be maintained for servicing transmissions prior to the Effective Serial Number.

All remaining old parts are hereby completely canceled for customer service.

Service Manager, Transmission Products

SPI 739
Page 1 of 3
Rev. "A" 7-20-71

Subject: Release of Low Range Clutch Hub Assembly Spacer P/N 6837815

Equipment Affected: TRT-4420, 4621 Model Transmissions

Effective Serial Number: 3528

A sleeve type spacer P/N 6837815 has been released for use on the subject transmissions at the low range clutch hub as illustrated in Figure 1. Reports have been received of finding wear and displaced metal at the run-out end of spline on the low gear. To eliminate the spline wear and maintain the relative position of the sun gear, the spacer is used in production transmissions commencing with serial number 3528.

This spacer is available for servicing those transmissions in field service. It is recommended the spacer be installed at next teardown or overhaul.

The low range clutch hub of the subject transmissions has been redesigned at the spline area as illustrated in Figure 2. This redesigned hub is being installed in production built transmissions commencing with serial number (S/N) 3595, thus eliminating the requirement of spacer P/N 6837815. The part number of the hub remains the same, therefore a visual inspection of a hub used in transmissions prior to S/N 3595 will determine spacer requirement. The new designed hub is fully interchangeable prior to S/N 3595 and spacer is not required. If a unit has the old type spline hub and is serviceable, use the spacer when reassembling transmission.

Service Manager - Transmissions Operations

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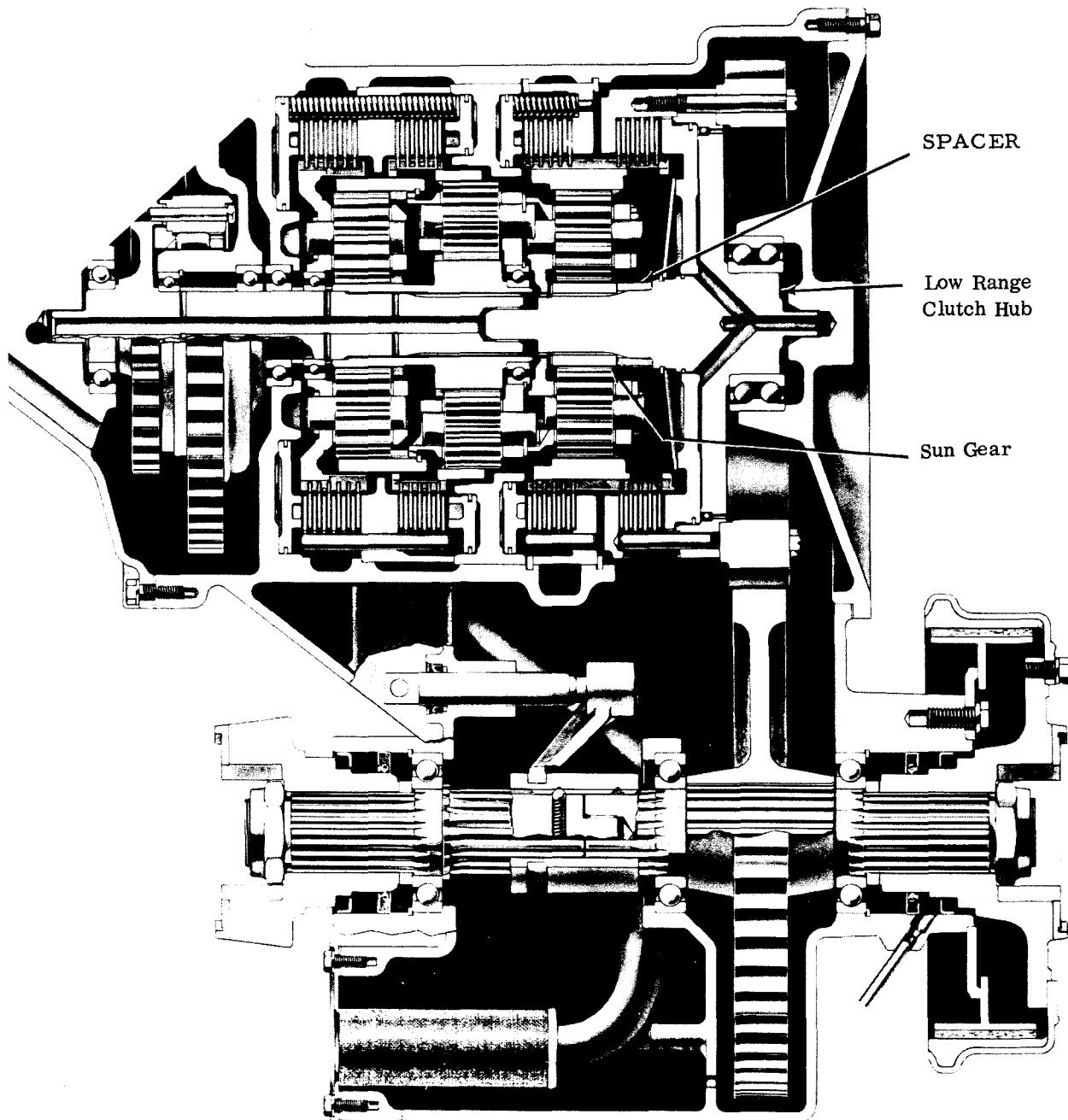


FIG. 1. TRT TRANSMISSION - PARTIAL CROSS SECTION

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Rev. "A" 7-20-71

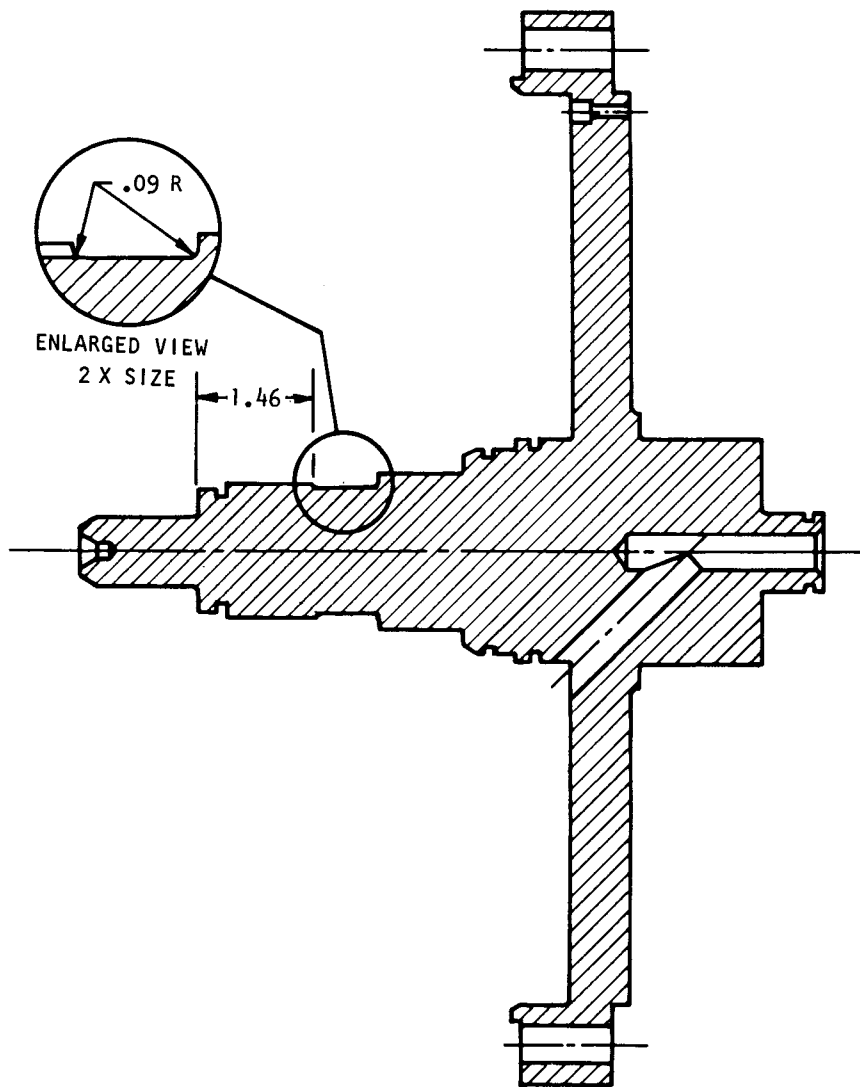


FIG. 2. HUB REDESIGN ELIMINATED PORTION OF SPLINE AREA ENCIRCLED

July 29, 1975

SUBJECT: Change In Type of Plug Used In Transmission Housing Assembly

EQUIPMENT AFFECTED: TT, TRT 4000 Series Transmissions

For purposes of Parts Standardization a compression type plug P/N 6838731 has been replaced with a standard thread pipe plug P/N 445751 in the transmission housing assembly. Refer to Figure 1. The plug seals a cross drilled oil passage for the auxiliary lube circuit in the housing.

Part Number Changes:

New Part No.	Old Part No.	Qty.	Part Name
445751		1	Plug, 1/2 - 14 pipe
	6838731	1	Plug, compression

Part number of transmission housing assemblies remains the same.

Interchangeability Affected

Plugs P/N 445751 and 6838731 are non-interchangeable in transmission housings. If necessary to service transmission (incorporating compression type plug) with the new pipe plug, drilling and tapping of the hole to accept the new threaded plug, P/N 445751 will be required. Refer to Transmission Housing Rework below.

Spare Parts Information

Old plug P/N 6838731 is hereby completely cancelled for customer service.

Transmission Housing Rework

1. To accept threaded plug P/N 445751, drill 0.6562 minimum diameter hole thru one wall and tap 0.500 - 14 dryseal NPTF.
2. Be sure to thoroughly clean all drill and tap debris from transmission housing internally and from the passageway rework area.

Transmission Service Manager

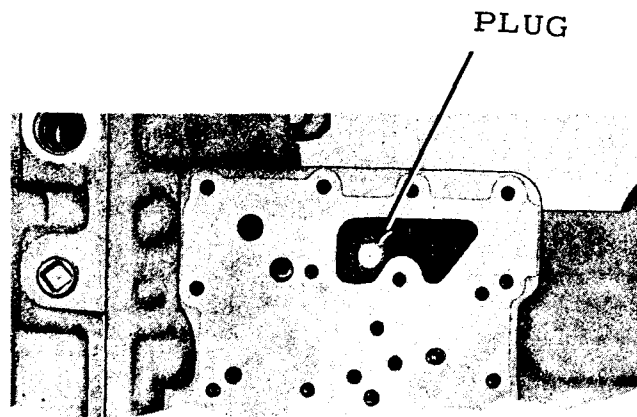


Fig. 1. Location Plugged Opening

SUBJECT: Torqmatic Coupling Improvement

EQUIPMENT AFFECTED: TT/TRT 4000 Series Transmissions

EFFECTIVE SERIAL NUMBERS: 10146 - TT/TRT-4000

The new Torqmatic Coupling design limits the input torque absorption of the detail Elastomer element and provides a mechanical drive for any excessive torque or torsional vibrations of short duration. Overall reliability and service life is extended by this limited stroke coupling assembly design. Should the Elastomer element fail, the mechanical drive feature maintains power transmittal until the vehicle can be shut down and the Torqmatic Coupling replaced.

Figure 1 reflects the new Coupling assembly design. Four steel headed pins are pressed into the hub of coupling and protrude into four slots in the flange. As a higher torque is applied to the Elastomer element, the pins rotate toward the ends of the slots under normal operating conditions. Excessive torque load results in pin contact with the end of slots and is carried by the pins and not by the Elastomer element.

The part number changes are as follows:

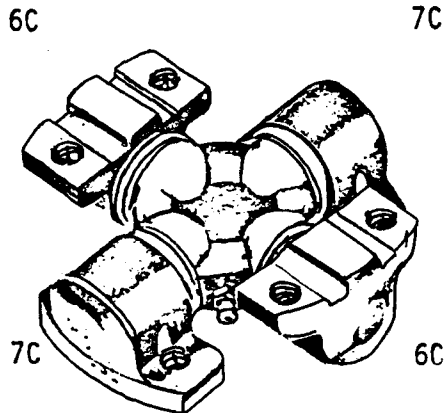
<u>New Part No.</u>	<u>Old Part No.</u>	<u>Part Name</u>
6882139 (MECH 7C)	6880034 (MECH 6C)	Flange Assy., (T(R)T-4000 - See Parts Catalog)
6882140 (MECH 7C)	6880038 (MECH 6C)	Flange Assy., (T(R)T-4000 - See Parts Catlog)

Interchangeability

New flange assemblies may be used on transmissions prior to the Effective Serial Number regardless of serial number, where applicable.

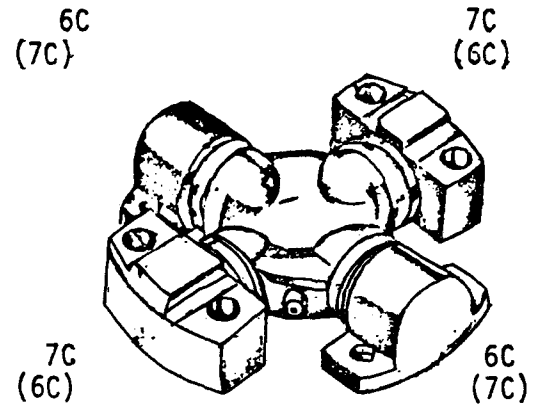
NOTE: As a result of the new design, the axial length of the new coupling assemblies, P/N 6882139 and 6882140 are 1.00 inch longer than the former service coupling. In many applications the increased length can be compensated for in the slip joint or by shortening the driveline. There will be installations where shortening the input driveline cannot be made or will make driveline angle too high. Maximum input driveline angle should not exceed 4° (four degrees). In these applications the OEM should be contacted for suggestions and recommendations.

The new T(R)T-4000 flange assemblies P/N 6882139 and 6882140 have a MECHANICS 7C type flange, wherein the old flange assemblies P/N 6880034 and 6880038 were MECHANICS 6C. To make the new MECH 7C flanges compatible with the MECH 6C vehicle driveline, the following universal joint adapters from 6C to 7C should be available locally and are listed for your convenience.



*Four Wing Type
Spider and
Bearings Assembly
Thru threaded
wing caps*

SPICER: 59-6108X
ROCKWELL: CP62N-15
MECHANICS: 114-6162



*Two Block, Two Wing Type
Spider and
Bearings Assembly*

Thru drilled blocks
Thru threaded wing caps

SPICER: 5-6901X
(MECHANICS: 114-6163)

Spare Parts Information

All old flange assemblies are hereby completely cancelled for customer service.

Engine Idle Speed Requirements

Before releasing a vehicle for operation, the proper engine idle speed must be set to avoid possible low speed vibrations resulting in adverse effect on coupling service life.

With the transmission and engine at normal operating temperature and the transmission in any Drive range, the idle speed should be set according to vehicle (not engine) manufacturer's recommendations. This idle speed will typically be higher than the engine manufacturer's recommendations.

Service Manager, Transmission Operations

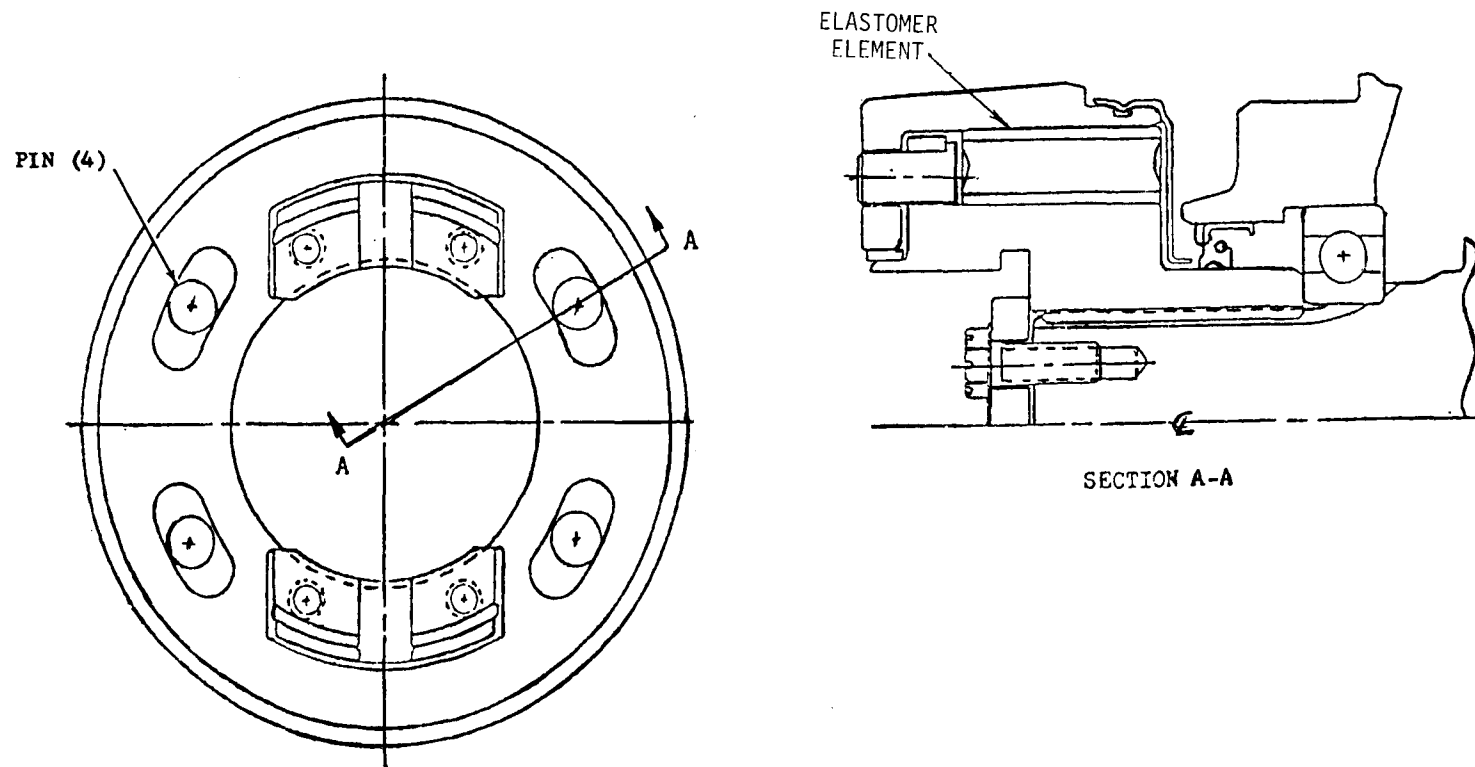


Fig. 1. NEW COUPLING DESIGN - CROSECTIONAL VIEW.

Subject: New Converter Housing Assembly Simplifies External Oil Filter Installation

Equipment Affected: TT/TRT-4000 Series Transmissions

Effective Serial Number: 9659

As a product improvement, a new converter housing assembly has been released to provide compatibility with the customer's installation of an external oil filter system. External filter used in the transmission oil cooler circuit is acceptable, since it prevents residual debris from a flushed or cleaned oil cooler entering a new or rebuilt transmission. Refer to Figure 1. However, due to the added restriction in the cooler circuit, a lower rate spring change is necessary at the converter regulator valve to insure adequate oil flow across coolers for cooling of transmission oil. Converter housings in new production transmissions built effective with S/N 9659, incorporate the new spring as follows and as illustrated in Figure 2.

<u>New Part No.</u>	<u>Old Part No.</u>	<u>Qty.</u>	<u>Part Name</u>
6884131	6779235	1	Housing Assembly, Converter
6880795	6773551	1	Spring, Converter Regulator Valve

Interchangeability

New parts are fully interchangeable on transmissions in field service regardless of transmission serial number.

NOTE: If new spring P/N 6880795 is used as a service replacement, be sure to install valve pin to the 1.04 to 1.06 inch dimension illustrated in Figure 2.

Spare Parts Information

Exhaust old housing assembly and spring on transmissions prior to Serial Number 9659, then use new parts for all service.

NOTE: Do not service transmission in applications using an external oil filtering system with old spring or housing assembly. Housing assembly 6779235 may be used for service if converter regulator valve spring P/N 6773551 is replaced with the new spring P/N 6880795 as related in Figure 2.

External Oil Filter Systems Installed on Transmissions in Field Service

Customers are advised that new converter regulator valve spring, P/N 6880759 be installed in any field service transmission where an external oil filter assembly is being added. As previously related, this added restriction results in back pressure in the converter-out circuit causing oil to escape at the converter regulator valve, thus reducing flow through the oil cooler resulting in high transmission operating temperatures. Therefore, if adding a filter,

then rework of converter housing is mandatory, which is changing out the converter regulator valve spring P/N 6773551 with new spring P/N 6880795. Remove valve guide pin, valve and spring. Discard old spring. Install valve and new spring onto valve guide pin and press pin into housing to the 1.04 to 1.06 inch dimension shown in Figure 2.

NOTE: Removal of valve guide pin from converter housing may be difficult. If necessary, a 3/16 inch diameter hole can be drilled from the opposite side of the housing at the area illustrated in Figure 3. Drill down to the end of the guide pin, then, using a pin drift, drive guide pin out of housing.

Detroit Diesel Allison Division
General Motors Corporation
Transmission Operations
Indianapolis, Indiana 46206

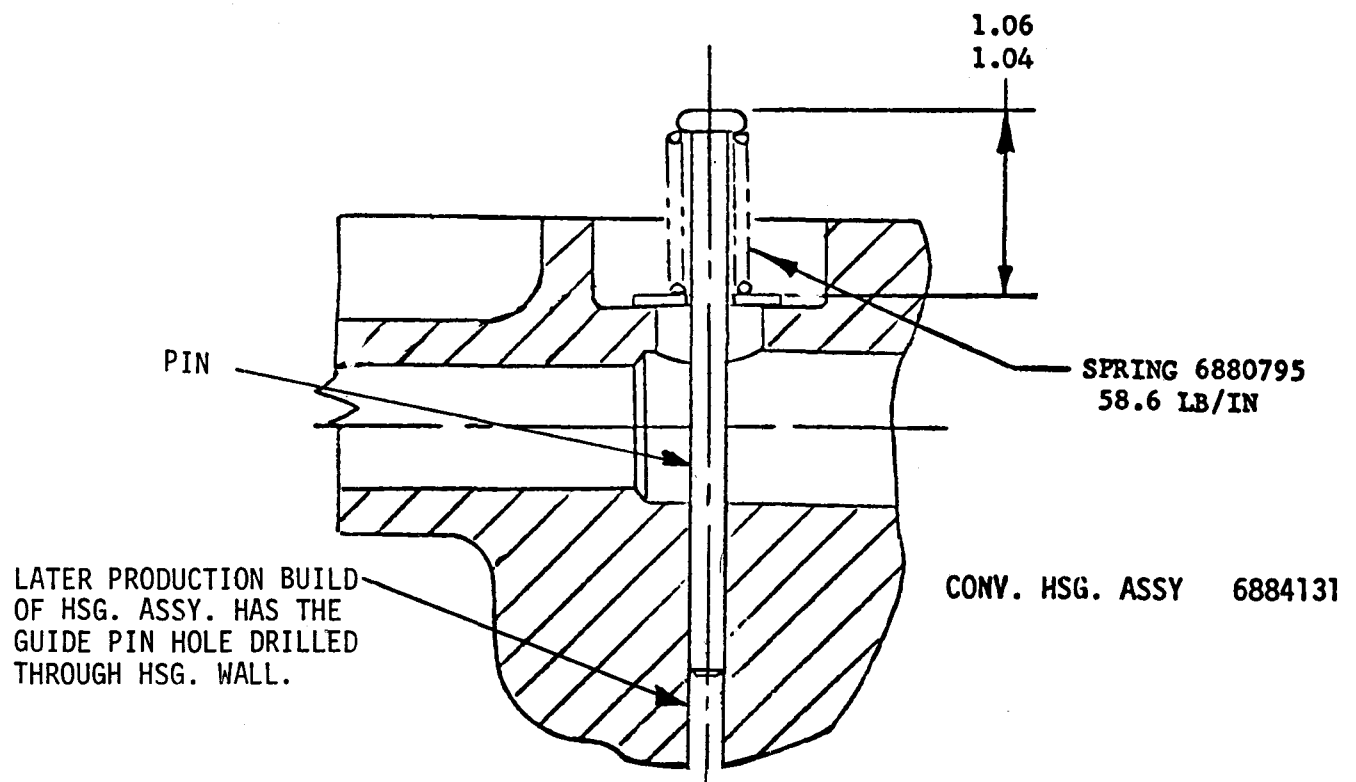


FIGURE 1A. CONVERTER HOUSING ASSEMBLY P/N 6884131 THRU-DRILL VALVE GUIDE PIN HOLE

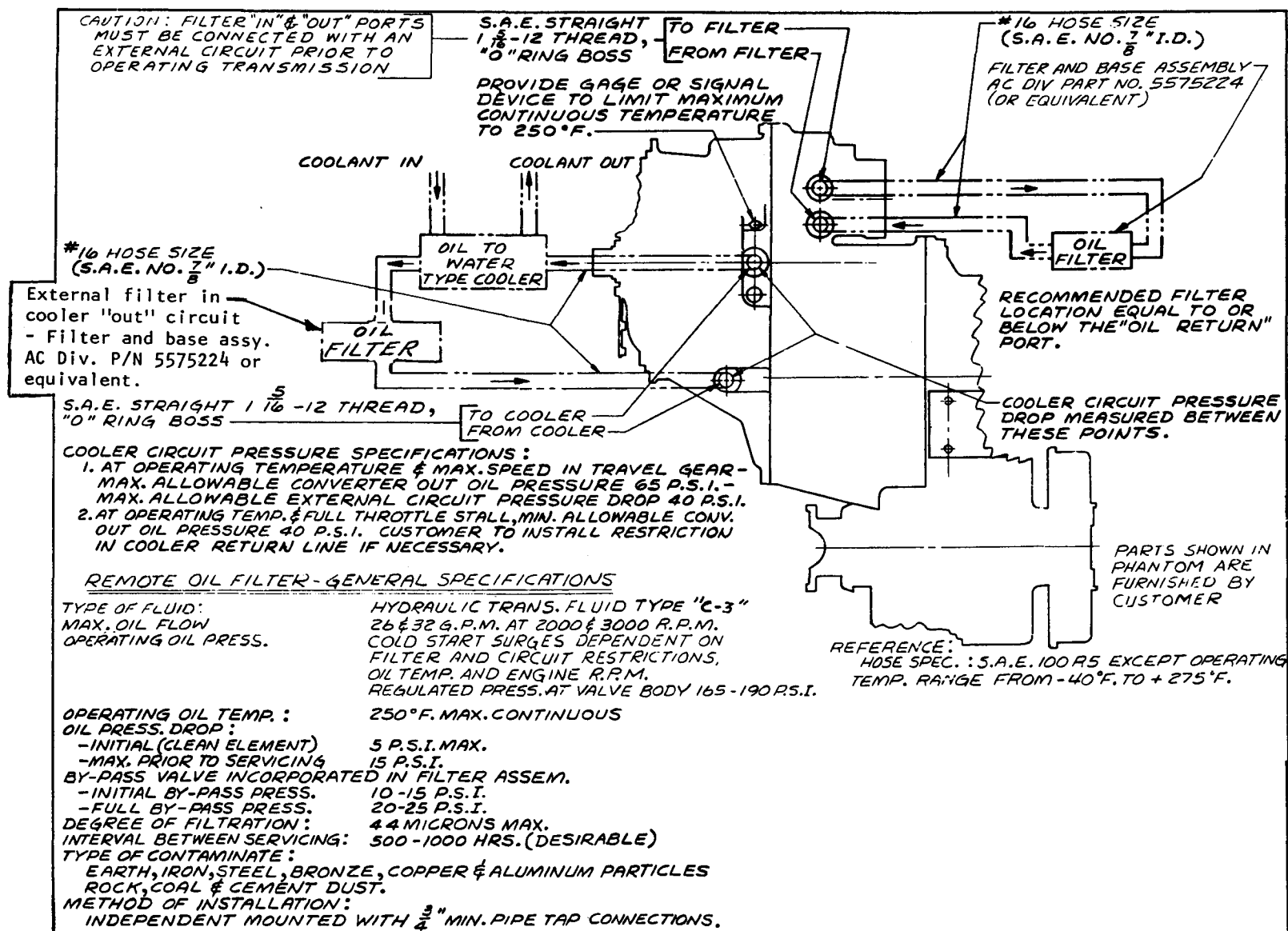


FIGURE 1. EXTERNAL HYDRAULIC CIRCUIT REQUIREMENTS

CANCEL

RELEASE

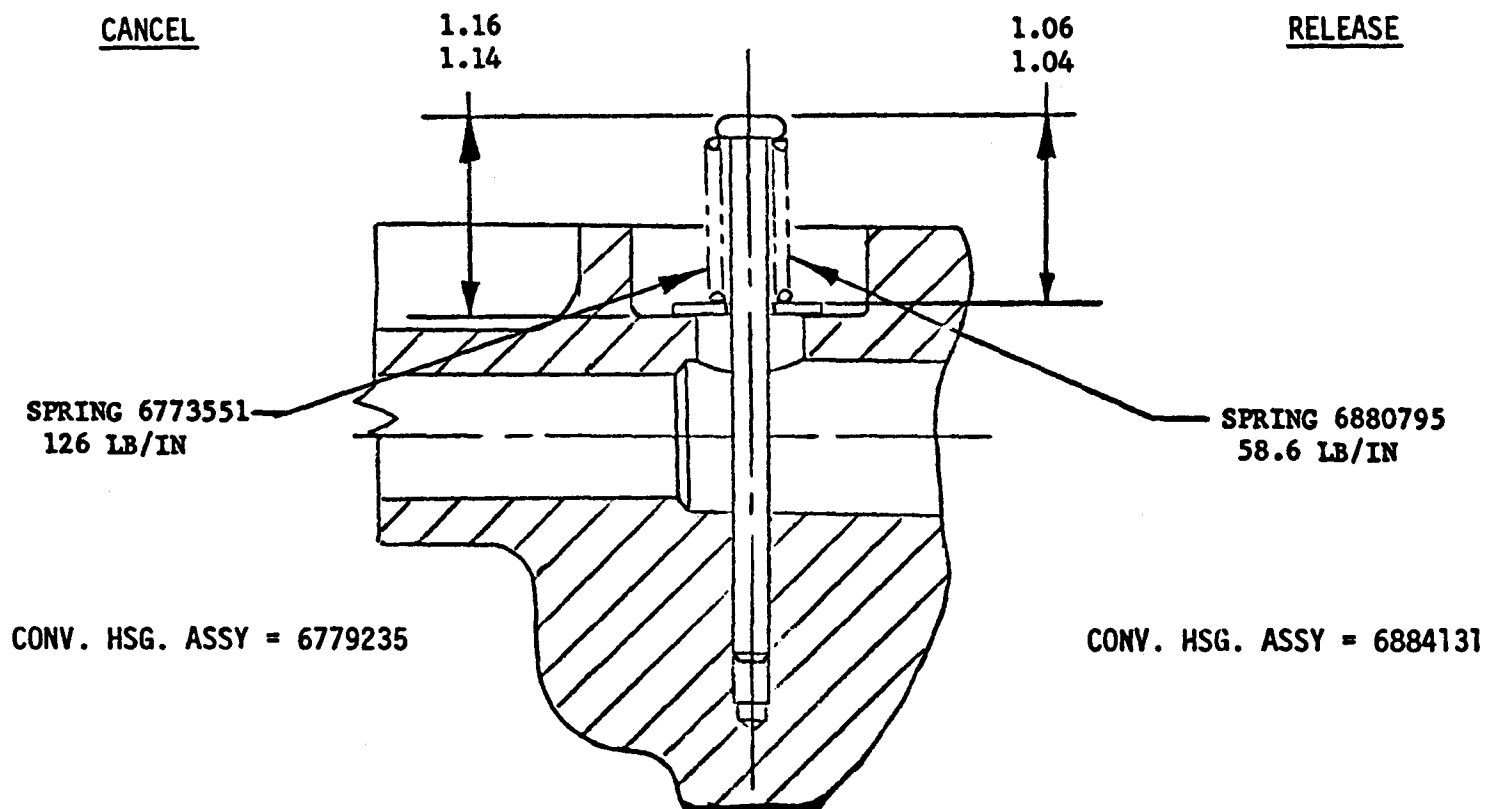


FIGURE 2. INSTALLATION DIMENSIONS FOR CONVERTER REGULATOR VALVE

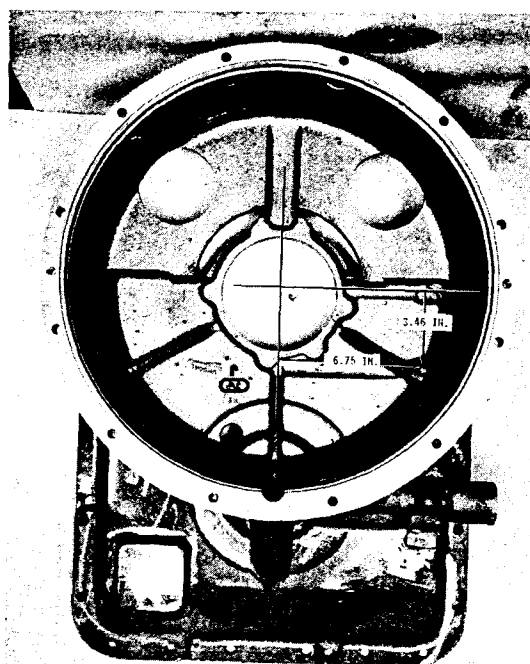


FIGURE 3. DRILL AT POINT INDICATED FOR REMOVAL OF VALVE GUIDE PIN

Subject: New Control Valve Body Assemblies Improve Transmission Cooler Oil Flow

Equipment Affected: TT-4720, TRT-4820 Clutch Cutoff Model Transmissions Only

Effective Serial Number: 9441

As a product improvement, new control valve body assemblies have been released for the subject transmissions. The new control valve body assemblies reflect a design change in the detail valve body permitting an increase in the volume of oil to the transmission oil cooler. This increase in cooler oil flow improves transmission operations by stabilizing operating temperatures. Normal operating temperature remains at the 275°F maximum level, however, more work can be accomplished and still remain within the acceptable operating temperature range. Transmissions in field service can be reworked to provide this improvement. Refer to "Control Valve Body Rework Procedure" below.

The part number changes as a result of this product improvement are as follows:

<u>New Part No.</u>	<u>Old Part No.</u>	<u>Qty</u>	<u>Part Name</u>
6883983	6839854	1	Body Assy., Control Valve
6883984	6839887	1	Body, Control Valve
6883985	6839852	1	Body Assy., Control Valve
6883984	6839887	1	Body, Control Valve
6883986	6839855	1	Body Assy., Control Valve
6883987	6839888	1	Body, Control Valve

Interchangeability

New parts are fully interchangeable on transmissions in field service regardless of transmission serial number.

Spare Parts Information

Old parts are hereby completely cancelled for servicing the subject transmissions.

NOTE: Detail control valve body, P/N 6839887, is still an available and serviceable part for the T(R)T(B)-2000 Series transmissions.

Control Valve Body Rework Procedure

Control valve body assemblies, P/N's 6839852, 6839854 and 6839855 rework for improved cooler oil flow consists of staking metal to close a 0.062 inch diameter hole in valve body. Refer to Figure 1.

May 20, 1977

Rework detail valve body as related in Figure 1 being sure to thoroughly clean and remove any raised metal from valve body face after completing rework.

Detroit Diesel Allison Division
General Motors Corporation
Transmission Operations
Indianapolis, Indiana 46206

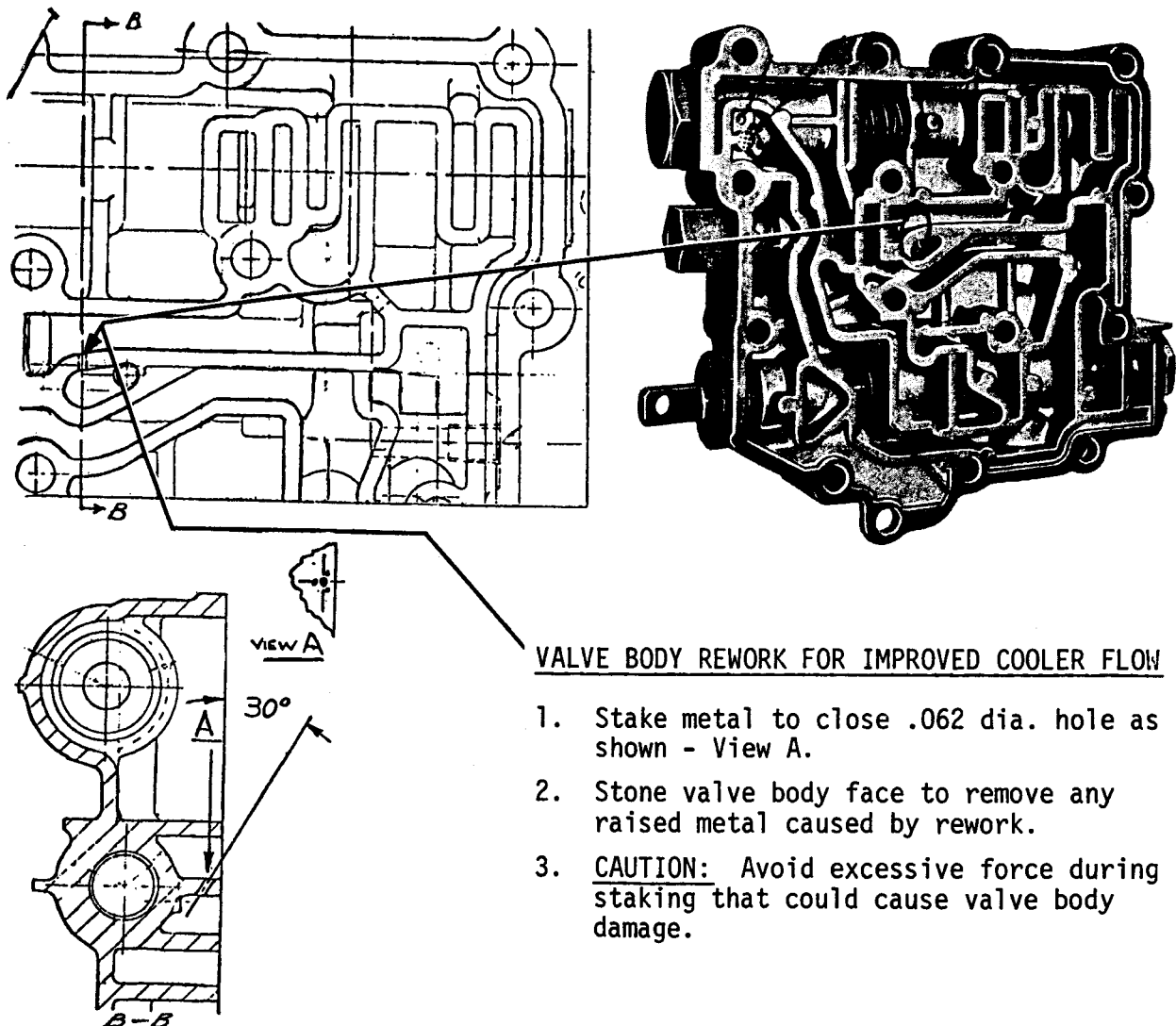


FIGURE 1. VALVE BODY REWORK

NUMERICAL PARTS INDEX

The numerical parts index lists the parts reference number and the figure number of the illustration in which it appears. The reference numbers are keyed to the group listings. However, you must know the transmission assembly part number to identify the right group.

NOTE

Use this index for reference only, do not order parts directly from this index—use the proper group referenced.

INDEX 2 ALLISON POWERSHIFT TRANSMISSION TT, TRT, CT AND CRT 4000 SERIES PARTS CATALOG

PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
102603	7-1	9		179851	13	20	
102603	7-1	12		179860	5	5	
103025	10	5		179860	10	32	
103025	10	35		179860	11	23	
103026	2	11		179864	5	3	
103320	17	8		179870	5	1	
103320	18	2		181427	16	23	
103321	2	10		186285	13-1	3	
103321	7	25		186311	2	2	
103321	7-1	22		218197	16	6	
103321	7-1	42		444576			RB 444618
103321	13	2		444592			R 143938
103321	13	6		444592			RB 444594
103321	13	19		444594			R 444592
103321	13-1	2		444594	7	18	
103321	13-1	5		444594	7-1	32	
103321	14	2		444612	14	27	
103322			R 103327	444612	14	36	
103322	5	2		444612	14	47	
103322	5	4		444612	14	50	
103322	5	6		444618			R 444576
103322	10	31		444618	7	16	
103322	11	22		444618	7	17	
103323	16	22		444618	7-1	30	
103326	16	7		444618	7-1	31	
103327			RB 103322	444672			R 9409027
105407	7	13		444672			R 9409947
105407	7-1	26		444672	5	15	
105413	7	12		444672	7	8	
105413	7-1	25		444672	7-1	17	
115553	16	19		444672	10	4	
141157	10	21		444687	7-1	10	
141157	11	12		444691	10	29	
141159	11	36		444691	11	20	
141244	10	19		445751			R 6838731
141281	7	6		445751	7-1	16	
141281	7-1	15		447126	11	41	
141281	13	16		451006	2	8	
142862			RB 145372	451006	3	5	
143938			RB 444592	451006	3	12	
143938	7	30		454955	4-1	11	
143938	7-1	29		552868	17	3	
145372			R 142862	560545	6	2	
145372	7	15		560545	6	26	
145372	7-1	28		903002	18	9	
145643	12	7		903311			R 907734
145657	14	30		903311			RB 907706
148409			R 9417600	904557			R 907406
148409	13-1	11		904557			RB 907703
148409	13-1	15		906729			RB 7451558
179819	18	1		907406			RB 904557
179827	17	9		907406	12	19	
179838	7	26		907418			RB 907835
179838	7-1	43		907418			RB 907878
179839	7-1	23		907424			RB 9437254
179839	14	3		907426	10	12	
179847	13	3		907426	10	40	
179847	13-1	4		907487	10	25	
179849	14	4		907487	11	16	
179851	13	5		907691			RB 9432185

R - REPLACES

RB - REPLACED BY

PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
907692	6	6		6756739	11	4	
907692	6	21		6756835	12	17	
907692	6	36		6756907			RB 6833228
907694	9	25		6757447	5	9	
907694	9-1	24		6757447	5	12	
907694	9-2	30		6757563	12	23	
907694	9-3	29		6758185			R 6776514
907696			RB 9437190	6758185	15	6	
907703			R 904557	6758305	14	22	
907703	2	5		6758306	14	26	
907703	12	4		6758503	14	20	
907703	12	14		6759405	14	27	
907703	12	19		6759504			RB 6838930
907706			R 903311	6759537			RB 6830198
907706			RB 9411328	6759551			RB 6838459
907723	4	16		6759873	12	9	
907723	4-1	21		6759926	6	15	
907734			RB 903311	6765710	14	20	
907801	18	7		6766665			RB 6838457
907819			R 9433260	6768267			RB 6838494
907819	6	19		6768417	17	5	
907835			R 907418	6768418	17	6	
907835			RB 9433260	6768536	17	4	
907878			R 907418	6769532	12	8	
907878			RB 9437255	6769580	16	24	
954528			RB 9433259	6769590			RB 23013719
2043587	17	7		6770253	14	33	
2344798	16	10		6770298	14	38	
2344799	16	13		6770432			RB 6839163
2344802	16	12		6770787	1	26	
2399044	16	9		6771144	1	1	
2399045	16	14		6771231			RB 6772040
2399048	16	18		6771255	1	15	
2399049	16	16		6771378	14	26	
2399050	16	17		6771535	1	18	
2405951	16	5		6771538	1	17	
2410296	16	4		6771573	1	16	
3224773	18	4		6771612	1	5	
6701353	7	28		6771612	1	20	
6701353	7-1	36		6771612	1	25	
6701353	14	7		6771913	14	25	
6701353	14	34		6771914	14	22	
6703159	12	12		6771957	13	4	
6704351	10-1	14		6771957	13-1	20	
6750094	11	10		6771976			R 6771988
6750265			RB 6882702	6771976	1	21	
6750558	14	23		6771988			RB 6771976
6750924	12	3		6772040			R 6771231
6750924	12	20		6772040	2	1	
6752033	18	3		6772050			RB 6880484
6752035	18	5		6772110	16	20	
6754823	10	17		6772184	12	10	
6754823	11	7		6772187	12	11	
6754835	4	9		6772327	9	3	
6755913	14	11		6772327	9-1	3	
6755988	4	15		6772327	9-2	3	
6755988	4-1	20		6772327	9-3	3	
6756134	10	14		6772740	14	24	
6756667			RB 6838458	6772740	14	32	
6756739	10	13		6773311	12	1	

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PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
6773311	12	22		6776092	9	26	
6773459	10	3		6776092	9-1	5	
6773461	11	40		6776092	9-1	8	
6773483	5	32		6776092	9-1	26	
6773543	13	9		6776092	10-1	18	
6773551			RB 6880795	6776092	10-1	22	
6773555			RB 6834176	6776092	10-1	29	
6773589			RB 6831189	6776092	11	3	
6773592			R 6775542	6776092	11	26	
6773592	14	13		6776093			R 6778244
6773593			RB 6830365	6776093			RB 6830914
6773602			RB 6835702	6776109		3	
6773607	14	18		6776115	12	18	
6773616	14	19		6776116			RB 6838720
6773618	7	29		6776132	4	13	
6773618	7-1	35		6776132	4-1	17	
6773618	14	6		6776133	2	9	
6773618	14	35		6776140			RB 6832995
6773622	14	12		6776146			RB 6832995
6773678			RB 6831185	6776147	12	16	
6773678			RB 6831191	6776359	11	6	
6773713	14	37		6776404	13	15	
6774155	14	31		6776407	13	15	
6774262			RB 6837700	6776425	13	10	
6774565	7	11		6776425	13-1	12	
6774565	7-1	24		6776426	13	12	
6774572	7-1	8		6776426	13-1	10	
6774572	12	13		6776426	13-1	14	
6774593	14	44		6776427			RB 6883964
6774594	14	43		6776427	13	11	
6774595			RB 6838473	6776428	13	17	
6774596	14	45		6776428	13-1	17	
6774597	14	40		6776429	13	14	
6774598			RB 6838472	6776431	13	14	
6774599	14	39		6776442	2	12	
6774693			RB 6831188	6776455	16	21	
6774715			RB 6776957	6776456	2	4	
6774721	5	21		6776456	3	7	
6774721	5	26		6776458			RB 6881587
6775399			RB 6831173	6776461			RB 6881586
6775437			R 6777843	6776469	6	13	
6775437	8	20		6776473			RB 6884755
6775530	14	10		6776477	9	14	
6775542			RB 6773592	6776477	9-1	14	
6775543			RB 6831191	6776477	9-2	19	
6775638	6	13		6776477	9-3	19	
6775638	6	44		6776486			RB 6884908
6775645			RB 6834961	6776495	5	13	
6775818	17	2		6776500	5	18	
6775819	17	1		6776503	7	20	
6775822	10	22		6776503	7	27	
6775822	11	13		6776503	7-1	34	
6776076			RB 6832870	6776503	7-1	37	
6776090	11	6		6776504	10-1	25	
6776092	8	4		6776508	4	4	
6776092	8	15		6776508	4-1	4	
6776092	8	22		6776514			RB 6758185
6776092	8	24		6776522			RB 6830513
6776092	9	5		6776523			RB 6830533
6776092	9	8		6776539			RB 6835399

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PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
6776549			R 6777841	6777892			RB 6831255
6776549	10-1	23		6777909	3	2	
6776557	4	4		6777931	13	15	
6776557	4-1	4		6777952	8	2	
6776558			RB 6832904	6777952	9	10	
6776897			RB 6831190	6777952	9-1	10	
6776957			R 6774715	6777952	10-1	2	
6776957			RB 6830292	6777953	9-1	9	
6776959	13	7		6777954	9	9	
6776960	13	7		6777954	10-1	3	
6776971			RB 6831187	6777955	8	12	
6776995	11	8		6777955	8-1	17	
6776998			R 6779553	6777955	9	20	
6776998	8	3		6777955	9	31	
6776999	10	16		6777955	9-2	25	
6777173	7	7		6777955	10-1	7	
6777173	7-1	18		6777956	9-1	19	
6777316	13	1		6777956	9-2	40	
6777318	7	24		6777956	9-3	24	
6777322	7	3		6778010	13	7	
6777323	7	4		6778011	13	14	
6777328			RB 6838454	6778099	8	7	
6777354	13	8		6778218			RB 6832905
6777389			RB 6831227	6778221	3	6	
6777400	1	16		6778222			RB 6832992
6777435			RB 6882142	6778224			RB 6832966
6777438			RB 6779688	6778226			RB 6832931
6777450			RB 6880036	6778229			RB 6832963
6777473			RB 6838710	6778230			RB 6834001
6777476	9	23		6778232			RB 6832545
6777476	9	34		6778233	6	14	
6777476	9-1	22		6778234	6	14	
6777476	9-2	28		6778235	6	20	
6777476	9-2	43		6778236			RB 6838705
6777476	9-3	27		6778237	8	6	
6777479	9-1	6		6778238	8	14	
6777481			RB 6830225	6778238	8-1	19	
6777493			RB 6830619	6778238	9	22	
6777525	10	15		6778238	9	33	
6777540	13	15		6778238	9-1	21	
6777541	13	14		6778238	9-2	27	
6777542	13	7		6778238	9-2	42	
6777552			RB 6838704	6778238	9-3	26	
6777566			R 6777566	6778238	10-1	9	
6777566			RB 6777566	6778239	8	10	
6777566	4	3		6778239	8-1	15	
6777566	4-1	3		6778239	10-1	10	
6777592	10	7		6778243	8	8	
6777598	10	19		6778243	8-1	13	
6777697	2	12		6778243	10-1	11	
6777723	18	8		6778244			RB 6776093
6777724	18	10		6778244			RB 6779063
6777726	18	12		6778245	8	17	
6777836	4	10		6778246	8	18	
6777837	4	14		6778247			RB 6830649
6777837	4-1	19		6778248			RB 6838703
6777841			RB 6776549	6778249	9-1	11	
6777843			RB 6775437	6778250			RB 6830664
6777853	4	10		6778251	9	13	
6777853	4-1	14		6778251	9-1	13	

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PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
6778251	9-2	18		6778533	11	24	
6778251	9-3	18		6778534	11	11	
6778252	9	12		6778535	11	9	
6778252	9-1	12		6778536	10	20	
6778253	10-1	1		6778537	10	18	
6778254			RB 6830677	6778538	8	1	
6778255			RB 6830663	6778539			R 6832611
6778256	10-1	16		6778539	9	11	
6778257			RB 6831254	6778539	9-1	11	
6778258			RB 6831253	6778540	10-1	1	
6778261	10-1	15		6778541	10	26	
6778262			RB 6880557	6778542	12	15	
6778263			RB 6831053	6778543			RB 6831256
6778264			RB 6832871	6778544			RB 6831257
6778265			RB 6833907	6778545			RB 6830770
6778266			RB 6830532	6778547	4	10	
6778266	7	5		6778547	4-1	14	
6778267			RB 6830531	6778548			RB 6832964
6778267	7	9		6778549	4	3	
6778268			RB 6831054	6778549	4-1	3	
6778269			RB 6831051	6778550	4	10	
6778270	11	17		6778550	4-1	14	
6778271	10	28		6778551			RB 6838416
6778271	11	19		6778553	2	9	
6778272	12	5		6778556	2	7	
6778273	1	15		6778640	4	10	
6778274	1	14		6778640	4-1	14	
6778296	8	19		6778949	1	2	
6778309			R 6779063	6778950	1	3	
6778313	10	9		6779063			R 6778244
6778313	10	37		6779063			RB 6778309
6778314			RB 6831055	6779063			RB 6830914
6778315			RB 6831052	6779189			RB 6833128
6778318			RB 6838772	6779235			RB 6884131
6778319			RB 6838775	6779553			RB 6776998
6778320			RB 6838771	6779688			R 6777438
6778322	9	15		6779688			RB 6880034
6778323	9	11		6779689			RB 6880035
6778324	8	18		6779690	1	10	
6778329			RB 6838773	6779950			RB 6831292
6778330	9	6		6830048	4	8	
6778332	8	17		6830154	1	9	
6778439	4-1	13		6830198			R 6759537
6778498	10	6		6830198	12	2	
6778498	10	36		6830198	12	21	
6778514	5	19		6830221			RB 23010122
6778515			RB 6839948	6830225			R 6777481
6778516	12	15		6830225	8	11	
6778517	7	2		6830225	8-1	16	
6778518	7	21		6830225	9	19	
6778518	7-1	38		6830225	9	30	
6778519	8	1		6830225	9-1	18	
6778521	10-1	20		6830225	9-2	24	
6778522			RB 6839913	6830225	9-2	39	
6778523	15	2		6830225	9-3	23	
6778526	5	8		6830225	10-1	6	
6778527	5	7		6830292			R 6776957
6778528	18	11		6830292			RB 6830916
6778529	18	13		6830293			R 6830914
6778533	10	33		6830293			RB 23010123

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PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
6830335			R 9421752	6831188			R 6774693
6830335	7	19		6831188			RB 6839891
6830335	7-1	33		6831189			R 6773589
6830336	10-1	17		6831189			RB 6839892
6830337	10-1	17		6831190			R 6776897
6830338	10-1	17		6831190			RB 6831943
6830339	10-1	17		6831191			R 6773678
6830365			R 6773593	6831191			R 6775543
6830365	14	16		6831191			RB 6831942
6830410	16	11		6831191			RB 6831944
6830511	7	10		6831227			R 6777389
6830517			RB 6831230	6831227			RB 6837928
6830518			R 6776522	6831230			R 6830517
6830518			RB 6831231	6831230			RB 6837931
6830531			R 6778267	6831231			R 6830518
6830531			RB 6831352	6831231			RB 6837932
6830532			R 6778266	6831233			R 6830785
6830532			RB 6831357	6831233			RB 6837726
6830533			R 6776523	6831234			R 6831064
6830533			RB 6831382	6831234			RB 6839879
6830533			RB 6831383	6831253			R 6778258
6830619			R 6777493	6831253			RB 6884033
6830619			RB 6831255	6831254			R 6778257
6830619	9-1	23		6831254			RB 6884032
6830619	9-2	44		6831255			R 6777892
6830619	9-3	28		6831255			R 6830619
6830649			R 6778247	6831255	9	24	
6830649	8	21		6831255	9	35	
6830663			R 6778255	6831255	9-2	29	
6830663	10-1	27		6831256			R 6778543
6830664			R 6778250	6831256	10	2	
6830664	9-1	15		6831257			R 6778544
6830677			R 6778254	6831257	10	1	
6830677	10-1	24		6831291	16	3	
6830770			R 6778545	6831292			R 6779950
6830770	3	6		6831292	16	2	
6830785			RB 6831233	6831293	16	15	
6830914			R 6776093	6831294	16	8	
6830914			R 6779063	6831352			R 6830531
6830914			RB 6830293	6831352	7	9	
6830916			R 6830292	6831357			R 6830532
6830916			RB 6835705	6831357	7	5	
6831051			R 6778269	6831377			RB 6833503
6831051	11	11		6831382			R 6830533
6831052			R 6778315	6831382	14	1	
6831052	10	20		6831383			R 6830533
6831053			R 6778263	6831383	14	1	
6831053	10	30		6831942			R 6831185
6831053	11	21		6831942			R 6831191
6831054			R 6778268	6831942			RB 6837939
6831054	11	9		6831943			R 6831190
6831055			R 6778314	6831943			RB 6837940
6831055	10	18		6831944			R 6831191
6831064			RB 6831234	6831944			RB 6837721
6831173			R 6775399	6832095			
6831173			RB 6882208	6832531	2	7	
6831185			R 6773678	6832531	8-1	1	
6831185			RB 6831942	6832537	10	43	
6831187			R 6776971	6832545			R 6778232
6831187	14	8		6832545	6	16	
				6832611			RB 6778539

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PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
6832870			R 6776076	6835702	14	14	
6832870			RB 6880558	6835705			R 6830916
6832871			R 6778264	6835705			RB 6885165
6832871			RB 6836094	6836094			R 6832871
6832904			R 6776558	6836094			RB 6880559
6832904	4	2		6836492	1	10	
6832905			R 6778218	6836493			RB 6880038
6832905	4	2		6837571			RB 23010246
6832931			R 6778226	6837572	8-1	6	
6832931	5	22		6837572	8-1	29	
6832949	7	9		6837572	9-2	11	
6832950	7	9		6837572	9-3	11	
6832951	7	5		6837599	8-1	34	
6832952	7	5		6837599	9-2	45	
6832963			R 6778229	6837599	10	31	
6832963			RB 6838706	6837674	9-3	13	
6832964			R 6778548	6837676			RB 6880561
6832964			RB 6838707	6837677			RB 6839546
6832966			R 6778224	6837678	6	22	
6832966	5	36		6837679			RB 6839547
6832992			R 6778222	6837690			R 6838930
6832992	5	36		6837690	10	8	
6832995			R 6776140	6837690	10	41	
6832995			R 6776146	6837700			R 6774262
6832995	4	11		6837700			RB 6880946
6832995	4-1	15		6837701			RB 6833987
6833128			R 6779189	6837701			RB 6883984
6833128	5	8		6837720			RB 6839888
6833228			R 6756907	6837721			R 6831944
6833228	6	8		6837721			RB 6839883
6833354			RB 6833501	6837726			R 6831233
6833501			R 6833354	6837726			RB 6839842
6833501			RB 6833866	6837736			RB 6839852
6833503			R 6831377	6837738			RB 6839854
6833503	6	7		6837804			RB 6839855
6833866			R 6833501	6837815	11	27	
6833866	6	11		6837928			R 6831227
6833867			RB 6839620	6837928			RB 6839876
6833867	6	9		6837931			R 6831230
6833894			R 6882194	6837931			RB 6839877
6833907			R 6778265	6837932			R 6831231
6833907	9	16		6837932			RB 6839878
6833907	9-2	21		6837939			R 6831942
6833907	10-1	17		6837939			RB 6839889
6833907	10-1	28		6837940			R 6831943
6833934	14	33		6837940			RB 6839890
6833947	15	4		6837941	10	38	
6833987			R 6837701	6837965			RB 6885174
6833987			RB 6883984	6837966			RB 6883982
6834001			R 6778230	6837980	6	38	
6834001	6	12		6838061	9-2	16	
6834176			R 6773555	6838061	9-3	16	
6834176	5	11		6838063	8-1	2	
6834176	5	14		6838064	8-1	3	
6834961			R 6775645	6838064	9-2	14	
6834961	14	17		6838064	9-3	14	
6835377	14	15		6838232	8-1	27	
6835399			R 6776539	6838416			R 6778551
6835399	11	5		6838416	4	14	
6835702			R 6773602	6838416	4-1	19	

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PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
6838454			R 6777328	6838706			R 6832963
6838454	19	1		6838706			RB 6884932
6838457			R 6766665	6838707			R 6832964
6838457	19	2		6838707	6	4	
6838458			R 6756667	6838708	11	34	
6838458	19	2		6838710			R 6777473
6838459			R 6759551	6838710	9	2	
6838459	19	2		6838710	9-1	2	
6838472			R 6774598	6838710	9-2	2	
6838472	14	42		6838710	9-3	2	
6838473			R 6774595	6838711	11	31	
6838473	14	41		6838714	1	22	
6838494			R 6768267	6838715	1	23	
6838494	7	14		6838716	1	15	
6838494	7-1	27		6838717			RB 6882677
6838503			RB 6882680	6838718	12	5	
6838574	4	5		6838720			R 6776116
6838575	5	38		6838720	12	6	
6838576	6	27		6838721	12	18	
6838577	6	32		6838722	12	16	
6838578	10	26		6838729	7-1	3	
6838616			RB 6882575	6838730			RB 6883980
6838616			RB 6883819	6838731			RB 445751
6838636	13-1	19		6838732	7-1	4	
6838641			RB 6882644	6838733	7-1	41	
6838642			RB 6882645	6838744	6	40	
6838643			RB 6882646	6838745	6	39	
6838644	13-1	8		6838747	9-2	17	
6838645	13-1	1		6838747	9-3	17	
6838646	13-1	7		6838758	8-1	8	
6838656			RB 6882155	6838759	8-1	4	
6838658			RB 6883659	6838760	9-2	13	
6838659	8-1	11		6838761	9-2	9	
6838661	8-1	12		6838767	9-2	6	
6838662	8-1	31		6838771			R 6778320
6838663	8-1	22		6838771	9	18	
6838664	8-1	23		6838771	9	29	
6838665	8-1	24		6838771	9-2	23	
6838666	8-1	26		6838772			R 6778318
6838667	9-3	20		6838772	9	1	
6838669	10-1	20		6838772	9	27	
6838670	11	6		6838772	9-2	1	
6838671			RB 6884038	6838773			R 6778329
6838672			RB 6881067	6838773	6	4	
6838672			RB 6884021	6838773	6	34	
6838673			RB 6882676	6838775			R 6778319
6838675	9-3	9		6838775	9	17	
6838677	8-1	25		6838775	9	28	
6838703			R 6778248	6838775	9-2	22	
6838703	9-1	16		6838776	9-2	20	
6838703	9-2	37		6838777			RB 6882575
6838703	9-3	21		6838778			RB 6882192
6838704			R 6777552	6838780	1	2	
6838704	9-1	17		6838781	1	3	
6838704	9-2	38		6838787	1	16	
6838704	9-3	22		6838808	7-1	11	
6838705			R 6778236	6838813	9-2	15	
6838705	9-1	1		6838813	9-3	15	
6838705	9-2	31		6838930			R 6759504
6838705	9-3	1		6838930			RB 6837690

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PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
6838973	6	29		6839888			RB 6883987
6839080	10	18		6839889			R 6837939
6839082	10	15		6839889	14	9	
6839163			R 6770432	6839890			R 6837940
6839163	10	23		6839890	14	9	
6839163	10	24		6839891			R 6831188
6839163	11	14		6839891	14	29	
6839163	11	15		6839892			R 6831189
6839163	11	38		6839892	14	29	
6839163	11	39		6839911	11	29	
6839248	12	15		6839912	10-1	25	
6839257	10	1		6839913			R 6778522
6839258	10	2		6839913	11	1	
6839405	1	15		6839914	8-1	9	
6839406	1	17		6839914	8-1	20	
6839407	1	16		6839914	8-1	32	
6839408	1	14		6839914	9-2	5	
6839462			RB 6883965	6839914	9-2	8	
6839463	13-1	16		6839914	9-2	33	
6839464	13-1	18		6839914	9-2	36	
6839506	6	33		6839914	9-3	5	
6839507	6	35		6839914	9-3	8	
6839541			RB 6882575	6839914	10-1	18	
6839542			RB 6882193	6839914	10-1	22	
6839543			RB 6882575	6839914	11	3	
6839543			RB 6883818	6839920	10-1	27	
6839544			RB 6882194	6839921	10-1	24	
6839546			R 6837677	6839942	1	16	
6839546			RB 6884931	6839947			RB 6881866
6839547			R 6837679	6839948			R 6778515
6839547	6	24		6839948			RB 6881867
6839547	6	29		6839949			RB 6881868
6839548	10	18		6839996	8-1	17	
6839620			R 6833867	6839996	9-2	25	
6839620	6	37		6839996	10	7	
6839840			R 6839842	6880034			R 6779688
6839840	14	5		6880034			RB 6882139
6839842			R 6837726	6880035			R 6779689
6839842			RB 6839840	6880035			RB 6882143
6839852			R 6837736	6880036			R 6777450
6839852			RB 6883985	6880036			RB 6882141
6839854			R 6837738	6880037	1	12	
6839854			RB 6883983	6880038			R 6836493
6839855			R 6837804	6880038			RB 6882140
6839855			RB 6883986	6880389	4	18	
6839862			R 6839879	6880389	4-1	18	
6839862	14	5		6880391	14	49	
6839863			R 6839877	6880392	14	48	
6839863	14	5		6880484			R 6772050
6839876			R 6837928	6880484	14	28	
6839876	14	5		6880484	14	46	
6839877			R 6837931	6880557			R 6778262
6839877			RB 6839863	6880557			RB 23011868
6839878			R 6837932	6880558			R 6832870
6839878	14	5		6880558			RB 6884023
6839879			R 6831234	6880559			R 6836094
6839879			RB 6839862	6880559	4	6	
6839883			R 6837721	6880561			R 6837676
6839883	14	9		6880561	5	31	
6839888			R 6837720	6880795			R 6773551

R - REPLACES

RB - REPLACED BY

PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
6880795	5	10		6882575			R 6839541
6880939	3	13		6882575			R 6839543
6880940	3	11		6882575			RB 6882630
6880941	3	10		6882575			RB 23011863
6880942	3	9		6882630			R 6882575
6880946			R 6837700	6882630			R 6883818
6880946	14	21		6882630			R 6883819
6881066	11	33		6882630	7-1	7	
6881067			R 6838672	6882644			R 6838641
6881067	11	35		6882644			RB 6883966
6881068	11	37		6882645			R 6838642
6881362	10-1	26		6882645	13-1	16	
6881382	14	1		6882646			R 6838643
6881586			R 6776461	6882646	13-1	18	
6881586	3	4		6882676			R 6838673
6881587			R 6776458	6882676	11	30	
6881587	3	3		6882677			R 6838717
6881800			R 6882155	6882677	12	15	
6881800			R 6882192	6882680			R 6838503
6881800			R 6882193	6882680	11	28	
6881800			R 6882194	6882702			R 6750265
6881800			R 6883893	6882702	7	23	
6881800			R 6883894	6882702	7-1	40	
6881800			RB 23010343	6882709	5	22	
6881866			R 6839947	6883659			R 6838658
6881866	15	2		6883659	9-2	34	
6881867			R 6839948	6883659	9-3	6	
6881867	4	17		6883818			R 6839543
6881867	4-1	22		6883818			RB 6882630
6881868			R 6839949	6883819			R 6838616
6881868	5	19		6883819			RB 6882630
6882139			R 6880034	6883893			R 6882155
6882139	1	6		6883893			RB 6881800
6882140			R 6880038	6883894			RB 6881800
6882140	1	6		6883964			R 6776427
6882141			R 6880036	6883964	13-1	9	
6882141	1	8		6883964	13-1	13	
6882142			R 6777435	6883965			R 6839462
6882142	1	11		6883965	13-1	6	
6882143			R 6880035	6883966			R 6882644
6882143			R 6882143	6883966	13-1	6	
6882143			RB 6882143	6883971	7-1	34	
6882144	1	7		6883980			R 6838730
6882155	1	13		6883980	7-1	6	
6882155			R 6838656	6883982			R 6837966
6882155			RB 6881800	6883982	6	41	
6882155			RB 6883893	6883983			R 6839854
6882156	7-1	21		6883983			RB 23011325
6882157			RB 6884502	6883984			R 6833987
6882192			R 6838778	6883984			R 6837701
6882192			RB 6881800	6883984			RB 23011276
6882193			R 6839542	6883985			R 6839852
6882193			RB 6881800	6883985			RB 23011323
6882194			R 6839544	6883986			R 6839855
6882194			RB 6833894	6883986			RB 23011326
6882194			RB 6881800	6883987			R 6839888
6882208			R 6831173	6883987			RB 23011278
6882208	16	1		6884021			R 6838672
6882575			R 6838616	6884021	11	35	
6882575			R 6838777	6884022	11	32	

R - REPLACES

RB - REPLACED BY

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PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
6884023			R 6880558	9409027			R 9409079
6884023	4	6		9409027			R 9409259
6884032			R 6831254	9409027			RB 444672
6884032	10-1	4		9409027	5	17	
6884033			R 6831253	9409027	7	1	
6884033	10-1	5		9409027	7	22	
6884038			R 6838671	9409027	7-1	1	
6884038	11	33		9409027	7-1	2	
6884131			R 6779235	9409027	7-1	5	
6884131	5	7		9409027	7-1	39	
6884500	8-1	5		9409028	5	23	
6884500	8-1	28		9409028	5	28	
6884500	9-2	10		9409030	5	23	
6884500	9-3	10		9409030	5	28	
6884502			R 6882157	9409038	6	31	
6884502	7-1	20		9409047	10	4	
6884755			R 6776473	9409079			R 9409259
6884755	5	24		9409079			RB 9409027
6884755	5	29		9409086	3	8	
6884755	5	32		9409125	8	9	
6884757	4-1	2		9409125	8-1	14	
6884761	5	27		9409125	10-1	12	
6884762	5	36		9409127	2	6	
6884763	5	31		9409213	11	18	
6884764	4-1	9		9409233	10	4	
6884765	4-1	8		9409258	3	1	
6884880	4-1	10		9409259			RB 9409027
6884881	4-1	2		9409259			RB 9409079
6884883	4-1	9		9409947			RB 444672
6884884	5	36		9411328			R 907706
6884885	5	31		9411328			RB 9437710
6884886	5	27		9411762	4-1	6	
6884908			R 6776486	9416389	1	4	
6884908	6	5		9416389	1	19	
6884908	6	25		9416389	1	24	
6884908	6	30		9417600			RB 148409
6884928	4-1	8		9417600	13	13	
6884929	3	6		9419637	5	33	
6884931			R 6839546	9419638	5	34	
6884931	6	23		9419639	5	35	
6884931	6	28		9421752			RB 6830335
6884932			R 6838706	9422846	10	10	
6884932	6	3		9422966	8	13	
6885165			R 6835705	9422966	8-1	18	
6885165	14	15		9422966	9	21	
6885174			R 6837965	9422966	9	32	
6885174			RB 23013493	9422966	9-1	20	
7451288	6	10		9422966	9-2	26	
7451288	6	42		9422966	9-2	41	
7451532	11	16		9422966	9-3	25	
7451532	11	42		9422966	10-1	8	
7451558			R 906729	9423680	10-1	13	
7451558	5	20		9423713	10	27	
8894450	18	6		9432185			R 907691
9209259			RB 9409027	9432185	5	25	
9409018	10	11		9433259			R 954528
9409018	10	39		9433259			RB 9437813
9409020	4	12		9433260			R 907835
9409020	4-1	16		9433260			RB 907819
9409027			R 9209259	9433260	4	1	

R - REPLACES

RB - REPLACED BY

PART NO	FIG NO	REF NO	HISTORY	PART NO	FIG NO	REF NO	HISTORY
9433260	4-1	1		23011278	14	9	
9433260	6	17		23011279	14	8	
9437190			R 907696	23011323			R 6883985
9437190			RB 9437890	23011323	14	5	
9437254			R 907424	23011325			R 6883983
9437254	15	3		23011325	14	5	
9437255			R 907878	23011326			R 6883986
9437255	5	18		23011326	14	5	
9437255	15	1		23011470	14	5	
9437710			R 9411328	23011503	14	5	
9437710	5	37		23011649	13-1	6	
9437813			R 9433259	23011650	13-1	16	
9437813	4	1		23011651	13-1	18	
9437813	4-1	1		23011755	10	15	
9437813	6	1		23011847	4-1	7	
9437849	5	30		23011848	4-1	7	
9437890			R 9437190	23011863			R 6882575
9437890	4	7		23011863	7-1	14	
9439502	4-1	6		23011868			R 6880557
23010122			R 6830221	23011868	5	31	
23010122	10	34		23011925	2	9	
23010122	10	42		23012031	5	15	
23010123			R 6830293	23013204	4-1	12	
23010123	8	5		23013334	10	4	
23010123	8	16		23013362	8-1	11	
23010123	8	23		23013363	9-2	22	
23010123	8	25		23013493			R 6885174
23010123	8-1	10		23013493	6	43	
23010123	8-1	21		23013719			R 6769590
23010123	8-1	33		23013719	13	18	
23010123	9	4		23013719	15	5	
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23010123	9-2	4					
23010123	9-2	7					
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23010123	10-1	19					
23010123	10-1	21					
23010123	10-1	30					
23010123	11	2					
23010123	11	25					
23010209	4	10					
23010209	4-1	14					
23010246			R 6837571				
23010246	8-1	7					
23010246	8-1	30					
23010246	9-2	12					
23010246	9-3	12					
23010343			R 6881800				
23010343	7-1	19					
23010344	7-1	13					
23011276			R 6883984				
23011276	14	9					
23011278			R 6883987				

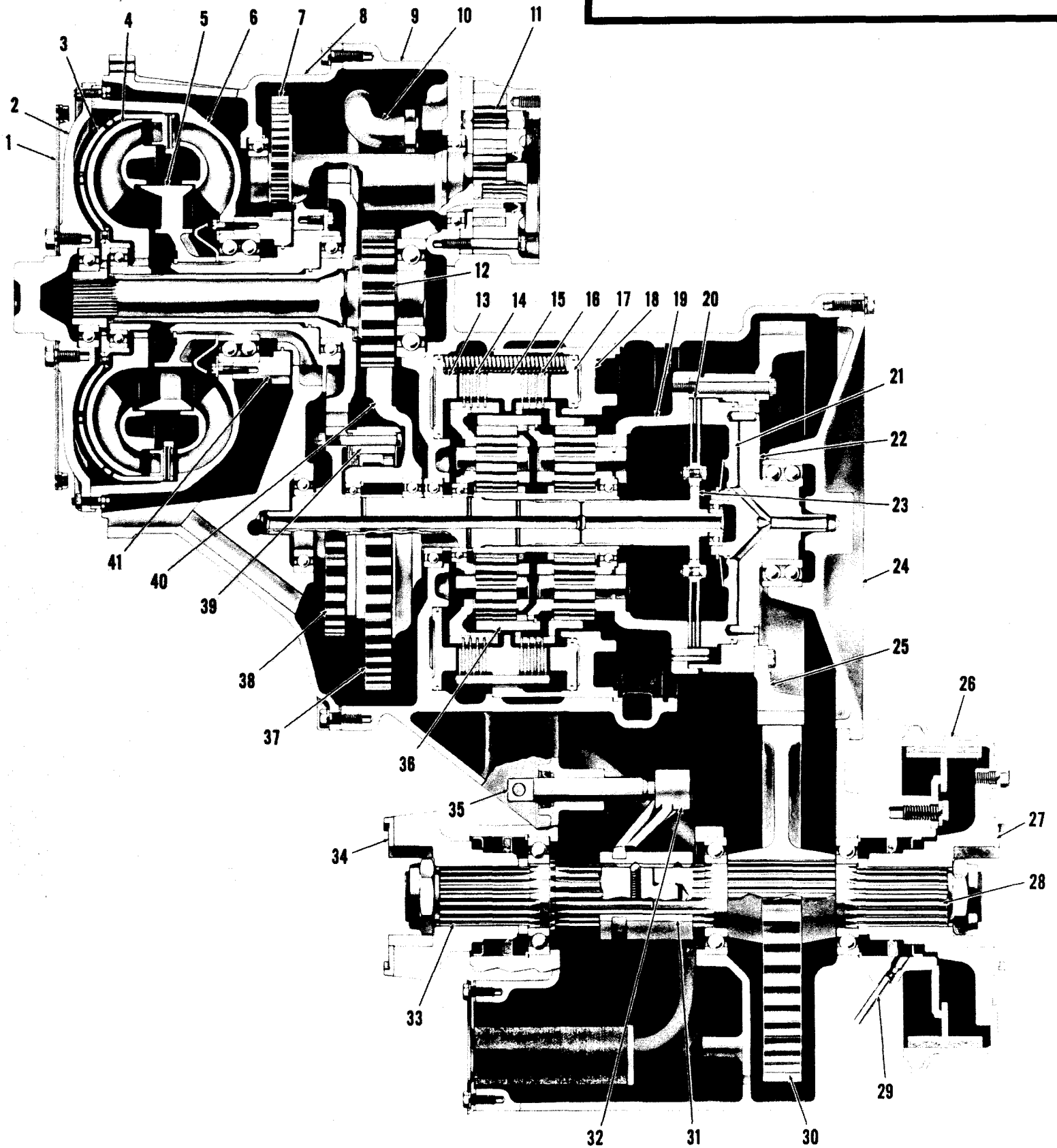
R - REPLACES

RB - REPLACED BY

- | | |
|--|---------------------------------|
| 1 - Flex disk drive | 22 - High-range clutch hub |
| 2 - Converter cover | 23 - High-range clutch shaft |
| 3 - First turbine | 24 - Transmission rear cover |
| 4 - Second turbine | 25 - Transfer drive gear |
| 5 - Stator | 26 - Parking brake |
| 6 - Converter pump | 27 - Rear output flange |
| 7 - Accessory driven gear | 28 - Rear output shaft |
| 8 - Converter housing | 29 - Drain tube |
| 9 - Transmission main housing | 30 - Transfer driven gear |
| 10 - Oil suction tube | 31 - Disconnect coupling |
| 11 - Charging oil pump | 32 - Shifter fork |
| 12 - First turbine drive gear | 33 - Front output shaft |
| 13 - Reverse clutch piston | 34 - Front output flange |
| 14 - Reverse clutch | 35 - Shifter fork shaft |
| 15 - Reverse and forward clutch anchor | 36 - Reverse ring gear |
| 16 - Forward clutch | 37 - First turbine driven gear |
| 17 - Forward clutch piston | 38 - Second turbine driven gear |
| 18 - Forward clutch piston housing | 39 - Freewheel unit |
| 19 - High-range clutch drive member | 40 - Second turbine drive gear |
| 20 - High-range clutch | 41 - Accessory drive gear |
| 21 - High-range clutch piston | |

FOLDOUT 1. TT 4620-1 POWERSHIFT TRANSMISSION—CROSS SECTION, LEGEND

TT 4620-1 CROSS SECTION

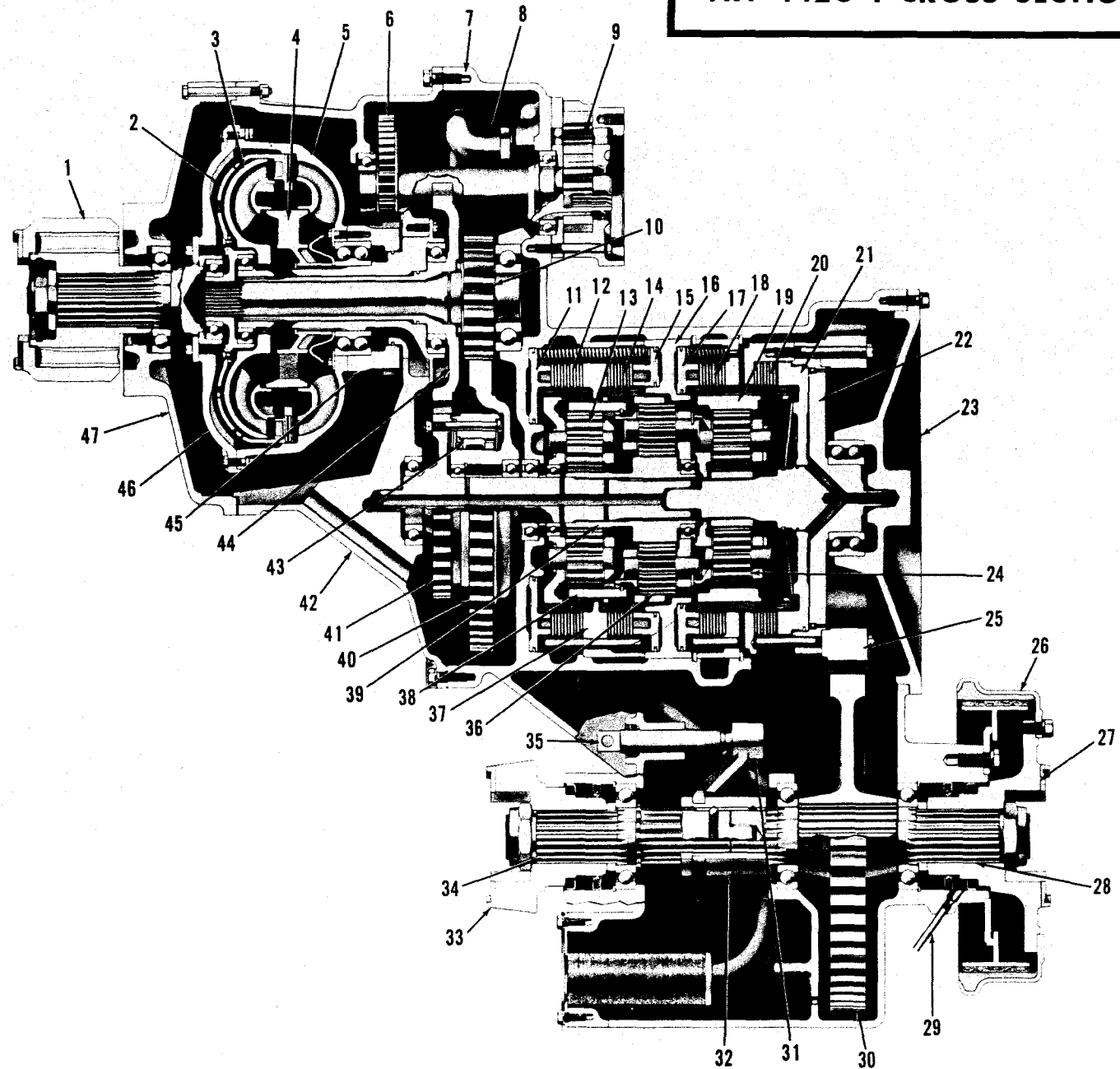


FOLDOUT 1. TT 4620-1 POWERSHIFT TRANSMISSION—CROSS SECTION

- | | |
|---|--|
| 1 - Torqmatic coupling | 25 - Transfer drive gear |
| 2 - First turbine | 26 - Parking brake |
| 3 - Second turbine | 27 - Output flange |
| 4 - Stator | 28 - Rear output shaft |
| 5 - Converter pump | 29 - Drain tube |
| 6 - Accessory driven gear | 30 - Transfer driven gear |
| 7 - Transmission main housing | 31 - Shifter fork |
| 8 - Oil suction tube | 32 - Disconnect coupling |
| 9 - Charging oil pump | 33 - Output flange |
| 10 - First turbine drive gear | 34 - Front output shaft |
| 11 - Reverse clutch piston | 35 - Shifter fork shaft |
| 12 - Reverse clutch | 36 - Forward carrier |
| 13 - Reverse carrier | 37 - Reverse and forward clutch anchor |
| 14 - Forward clutch | 38 - Reverse ring gear |
| 15 - Forward clutch piston | 39 - Forward and reverse clutch sun gear |
| 16 - Forward and high clutch piston housing | 40 - First turbine driven gear |
| 17 - High-range clutch piston | 41 - Second turbine driven gear |
| 18 - High-range clutch | 42 - Converter housing |
| 19 - High and low-range clutch ring gear | 43 - Freewheel unit |
| 20 - Low-range clutch | 44 - Second turbine drive gear |
| 21 - Low-range clutch piston | 45 - Accessory drive gear |
| 22 - Low-range clutch hub | 46 - Converter pump cover |
| 23 - Transmission rear cover | 47 - Converter housing cover |
| 24 - High-range carrier | |

FOLDOUT 2. TRT 4420-1 POWERSHIFT TRANSMISSION—CROSS SECTION, LEGEND

TRT 4420-1 CROSS SECTION

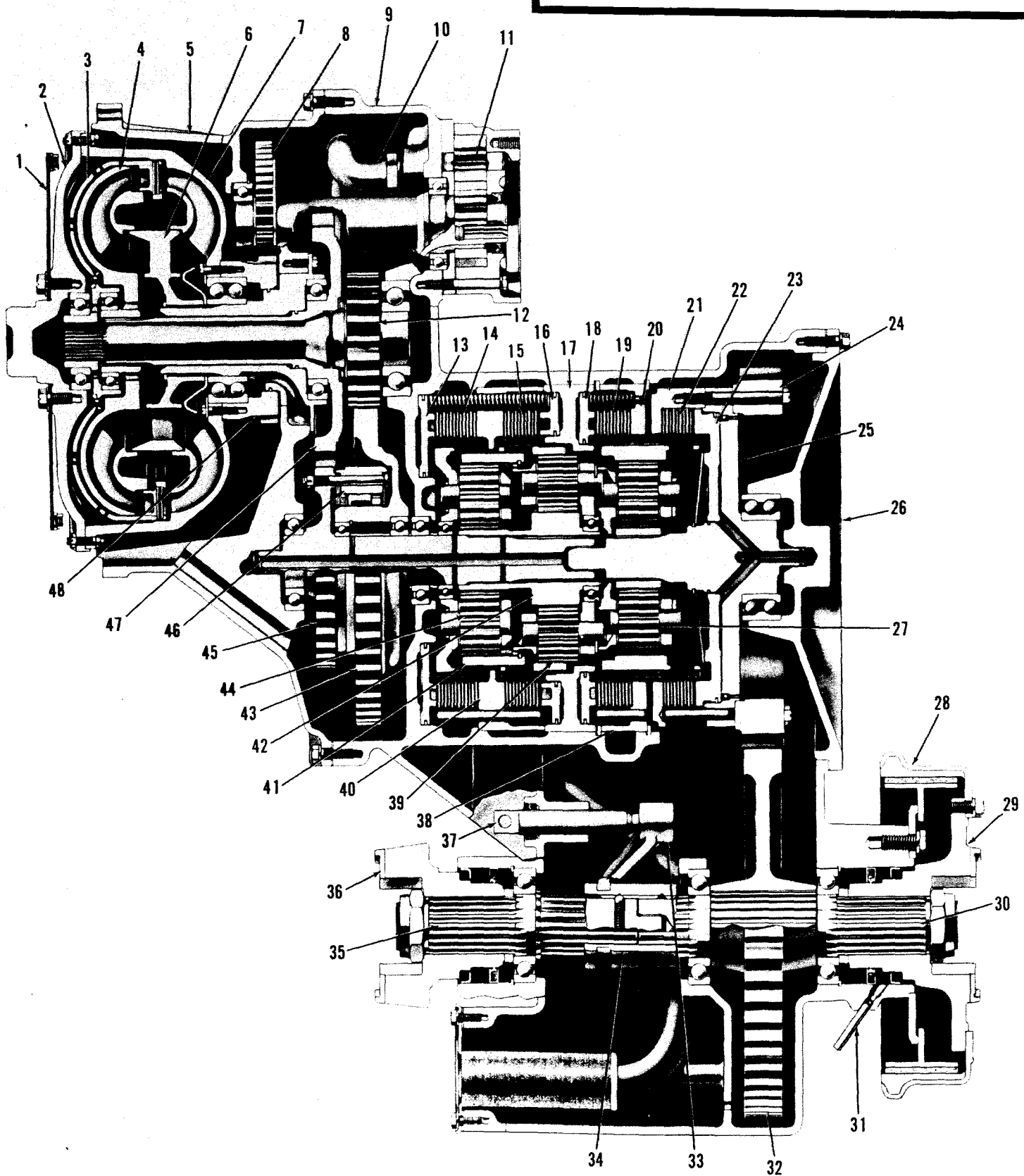


FOLDOUT 2. TRT 4420-1 POWERSHIFT TRANSMISSION—CROSS SECTION

- | | |
|--------------------------------------|--|
| 1 - Flex disk drive | 25 - Low-range clutch hub |
| 2 - Converter cover | 26 - Transmission rear cover |
| 3 - First turbine | 27 - High-range carrier |
| 4 - Second turbine | 28 - Parking brake |
| 5 - Converter housing | 29 - Rear output flange |
| 6 - Stator | 30 - Rear output shaft |
| 7 - Converter pump | 31 - Drain tube |
| 8 - Accessory drive gear | 32 - Transfer driven gear |
| 9 - Transmission main housing | 33 - Shifter fork |
| 10 - Oil suction tube | 34 - Disconnect coupling |
| 11 - Charging oil pump | 35 - Front output shaft |
| 12 - First turbine drive gear | 36 - Front output flange |
| 13 - Reverse clutch piston | 37 - Shifter fork shaft |
| 14 - Reverse clutch | 38 - High-range clutch anchor |
| 15 - Forward clutch | 39 - Forward clutch carrier |
| 16 - Forward clutch piston | 40 - Reverse and forward clutch anchor |
| 17 - Forward and high piston housing | 41 - Reverse ring gear |
| 18 - High-range clutch piston | 42 - Forward and reverse clutch sun gear |
| 19 - High-range clutch | 43 - First turbine driven gear |
| 20 - High-range clutch anchor | 44 - Reverse clutch planetary |
| 21 - Low-range clutch backing plate | 45 - Second turbine driven gear |
| 22 - Low-range clutch | 46 - Freewheel unit |
| 23 - Low-range clutch piston | 47 - Second turbine drive gear |
| 24 - Transfer drive gear | 48 - Accessory drive gear |

FOLDOUT 3. TRT 4621-1 POWERSHIFT TRANSMISSION—CROSS SECTION, LEGEND

TRT 4621-1 CROSS SECTION



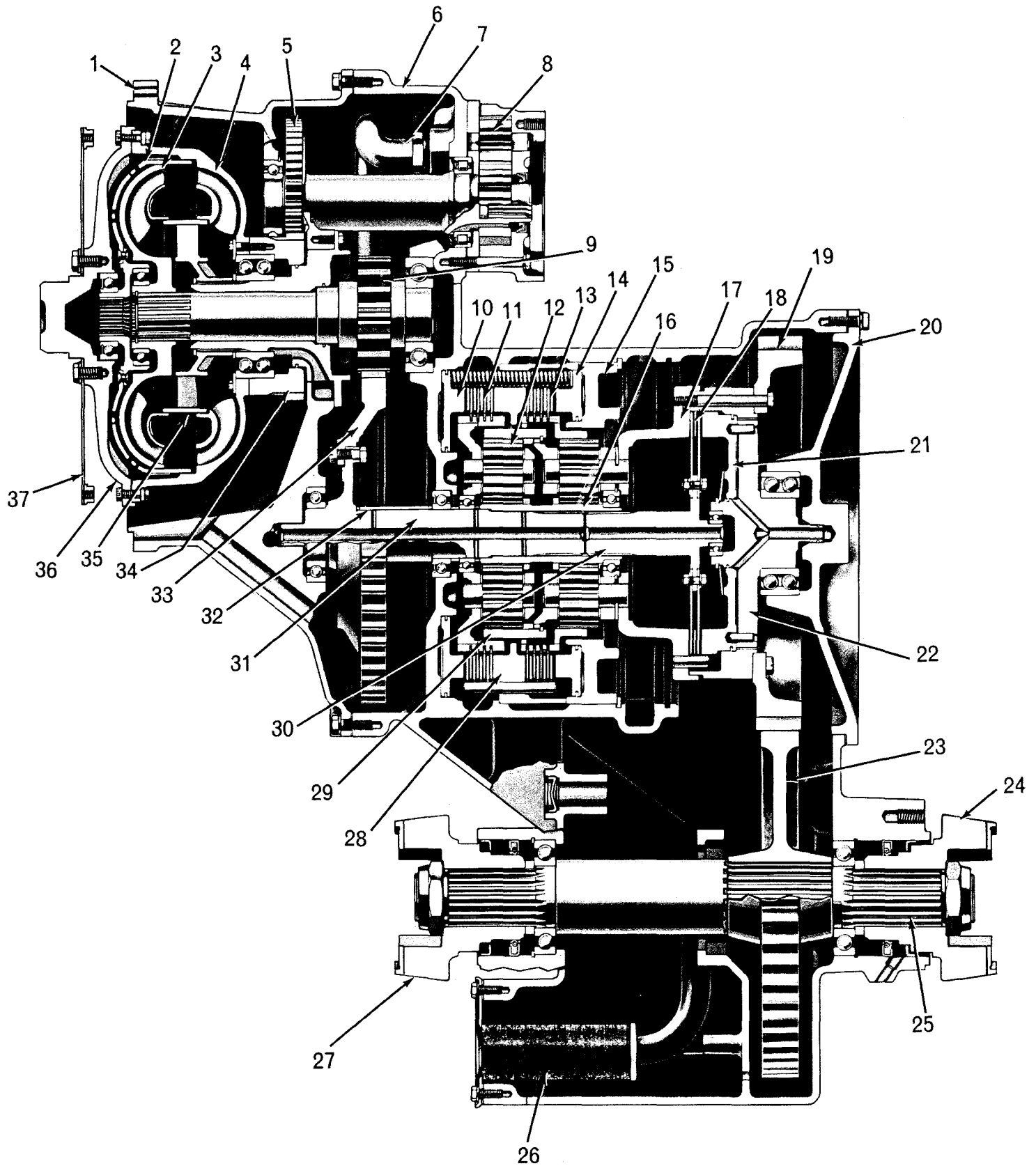
FOLDOUT 3. TRT 4621-1 POWERSHIFT TRANSMISSION—CROSS SECTION

- 1 - Converter housing
- 2 - Turbine support and hub assy
- 3 - Second turbine
- 4 - Converter pump
- 5 - Accessory driven gear
- 6 - Transmission main housing
- 7 - Oil suction tube
- 8 - Charging oil pump
- 9 - Turbine drive gear
- 10 - Reverse clutch piston
- 11 - Reverse clutch
- 12 - Reverse carrier
- 13 - Forward clutch
- 14 - Forward clutch piston
- 15 - Forward clutch piston housing
- 16 - Forward and reverse clutch sun gear
- 17 - High-range clutch drive member
- 18 - High-range clutch

- 19 - Transfer drive gear
- 20 - Transmission rear cover
- 21 - High-range clutch piston
- 22 - High-range clutch hub
- 23 - Transfer driven gear
- 24 - Rear output flange
- 25 - Front and rear output shaft
- 26 - Oil filter
- 27 - Front output flange
- 28 - Reverse and forward clutch anchor
- 29 - Reverse ring gear
- 30 - High-clutch shaft
- 31 - Turbine driven shaft
- 32 - Spacer
- 33 - Turbine driven gear
- 34 - Accessory drive gear
- 35 - Stator
- 36 - Converter pump cover
- 37 - Flex disk drive

FOLDOUT 4. CT 4420-1 POWERSHIFT TRANSMISSION—CROSS SECTION, LEGEND

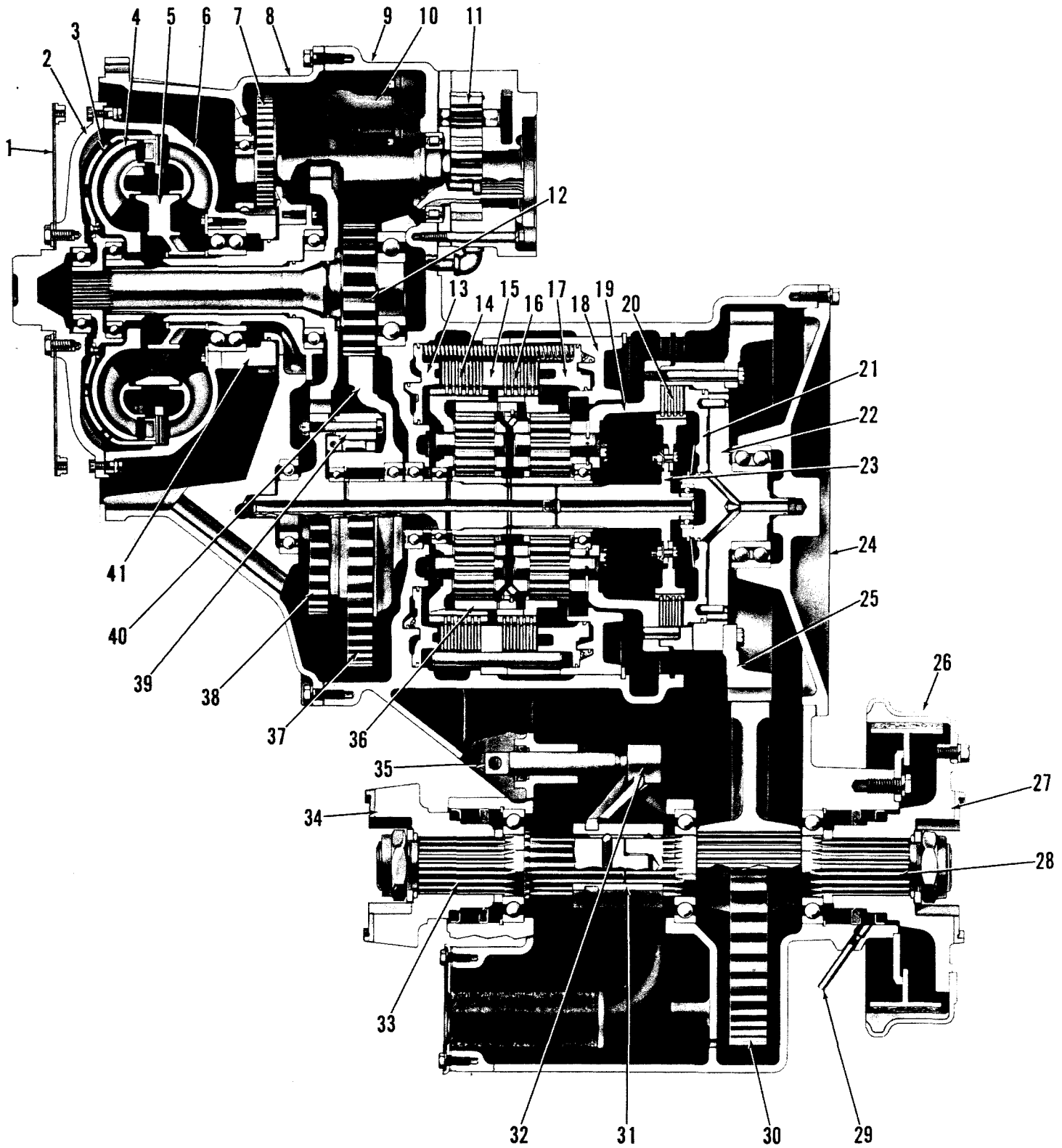
CT 4420-1 CROSS SECTION



- | | |
|--|---------------------------------|
| 1 - Flex disk drive | 22 - High-range clutch hub |
| 2 - Torque converter cover | 23 - High-range clutch shaft |
| 3 - First turbine | 24 - Transmission rear cover |
| 4 - Second turbine | 25 - Transfer drive gear |
| 5 - Stator | 26 - Parking brake |
| 6 - Converter pump | 27 - Rear output flange |
| 7 - Accessory driven gear | 28 - Rear output shaft |
| 8 - Converter housing | 29 - Drain tube |
| 9 - Transmission main housing | 30 - Transfer driven gear |
| 10 - Oil suction tube | 31 - Disconnect coupling |
| 11 - Charging oil pump | 32 - Shift fork |
| 12 - First turbine drive gear | 33 - Front output shaft |
| 13 - Reverse clutch piston | 34 - Front output flange |
| 14 - Reverse clutch | 35 - Shifter fork shaft |
| 15 - Reverse and forward clutch anchor | 36 - Reverse ring gear |
| 16 - Forward clutch | 37 - First turbine driven gear |
| 17 - Forward clutch piston | 38 - Second turbine driven gear |
| 18 - Forward clutch piston housing | 39 - Freewheel unit |
| 19 - High-range clutch drive member | 40 - Second turbine drive gear |
| 20 - High-range clutch | 41 - Accessory drive gear |
| 21 - High-range clutch piston | |

**FOLDOUT 5. TT4720-1 POWERSHIFT TRANSMISSION-
CROSS SECTION, LEGEND**

TT 4720-1 CROSS SECTION



- | | |
|--------------------------------------|--|
| 1 - Torqmatic coupling | 25 - Transfer drive gear |
| 2 - First turbine | 26 - Parking brake |
| 3 - Second turbine | 27 - Rear output flange |
| 4 - Stator | 28 - Rear output shaft |
| 5 - Converter pump | 29 - Drain tube |
| 6 - Accessory driven gear | 30 - Transfer driven gear |
| 7 - Transmission housing | 31 - Shifter fork |
| 8 - Oil suction tube | 32 - Disconnect coupling |
| 9 - Charging oil pump | 33 - Front output flange |
| 10 - First turbine drive gear | 34 - Front output shaft |
| 11 - Reverse clutch piston | 35 - Shifter fork shaft |
| 12 - Reverse clutch | 36 - Forward clutch planetary |
| 13 - Reverse clutch planetary | 37 - Reverse and forward clutch anchor |
| 14 - Forward clutch | 38 - Reverse ring gear |
| 15 - Forward and high piston housing | 39 - Forward and reverse clutch sun gear |
| 16 - Forward clutch piston | 40 - First turbine driven gear |
| 17 - High-range clutch piston | 41 - Second turbine driven gear |
| 18 - High-range clutch planetary | 42 - Converter housing |
| 19 - High-range clutch anchor | 43 - Freewheel unit |
| 20 - Low-range clutch backing plate | 44 - Second turbine drive gear |
| 21 - Low-range clutch | 45 - Input accessory drive gear |
| 22 - Low-range clutch piston | 46 - Converter cover |
| 23 - Transmission rear cover | 47 - Converter housing cover |
| 24 - Low-range clutch hub | |

**FOLDOUT 6. TRT4820-1 POWERSHIFT TRANSMISSION-
CROSS SECTION, LEGEND**

TRT 4820-1 CROSS SECTION

