ORIGINAL OPTIONAL EQUIPMENT
HYDRAULIC INPUT LOCK-UP CLUTCH

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

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
6752801	TCLA 955	A	6754661	TCLA 955	A
6752429	TCL 954	A	6756697	TCL 854	A
6752974	TCLA 955	A	6756767	TCL 954	A
6752979	TCLA 955	A	6758878	TCLA 955	A
6754653	TCL 954	A	6759341	TCL 954	A
6754657	TCLA 955	A	6759453	TCL 854	A
6754658	TCLA 955	A	6759818	TCLA 855	A
6754660	TCLA 955	A	6773719	TCL 954	A

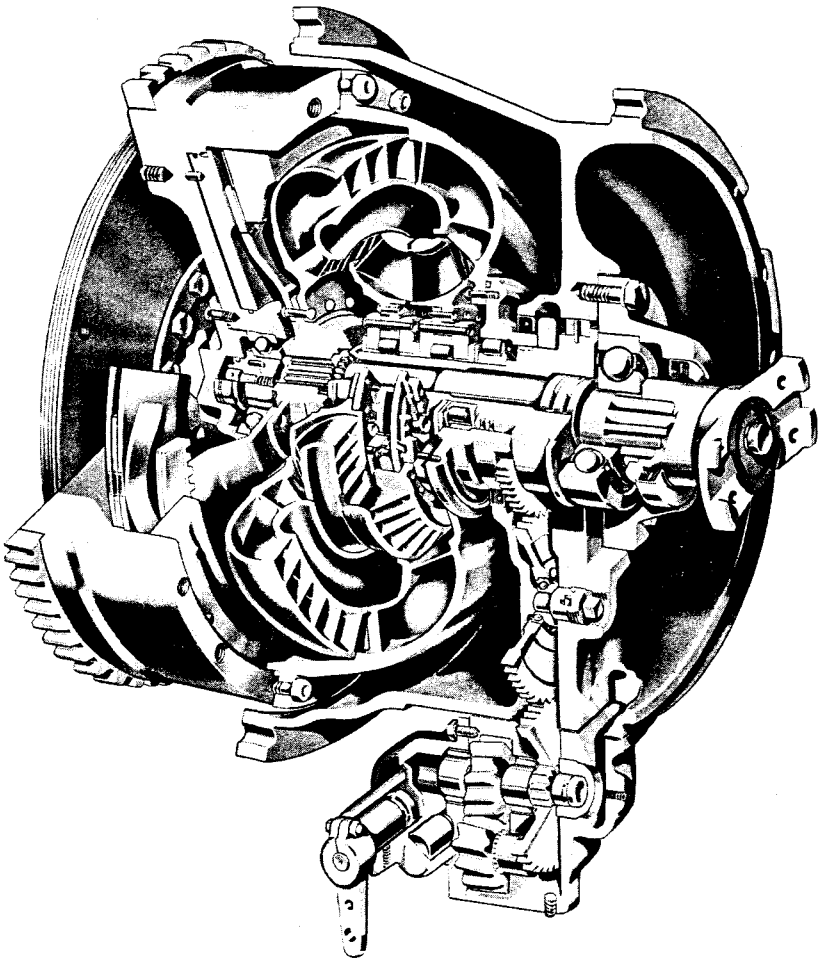

FIG. 11. ALLISON MODEL TCL TORQMATIC CONVERTER

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

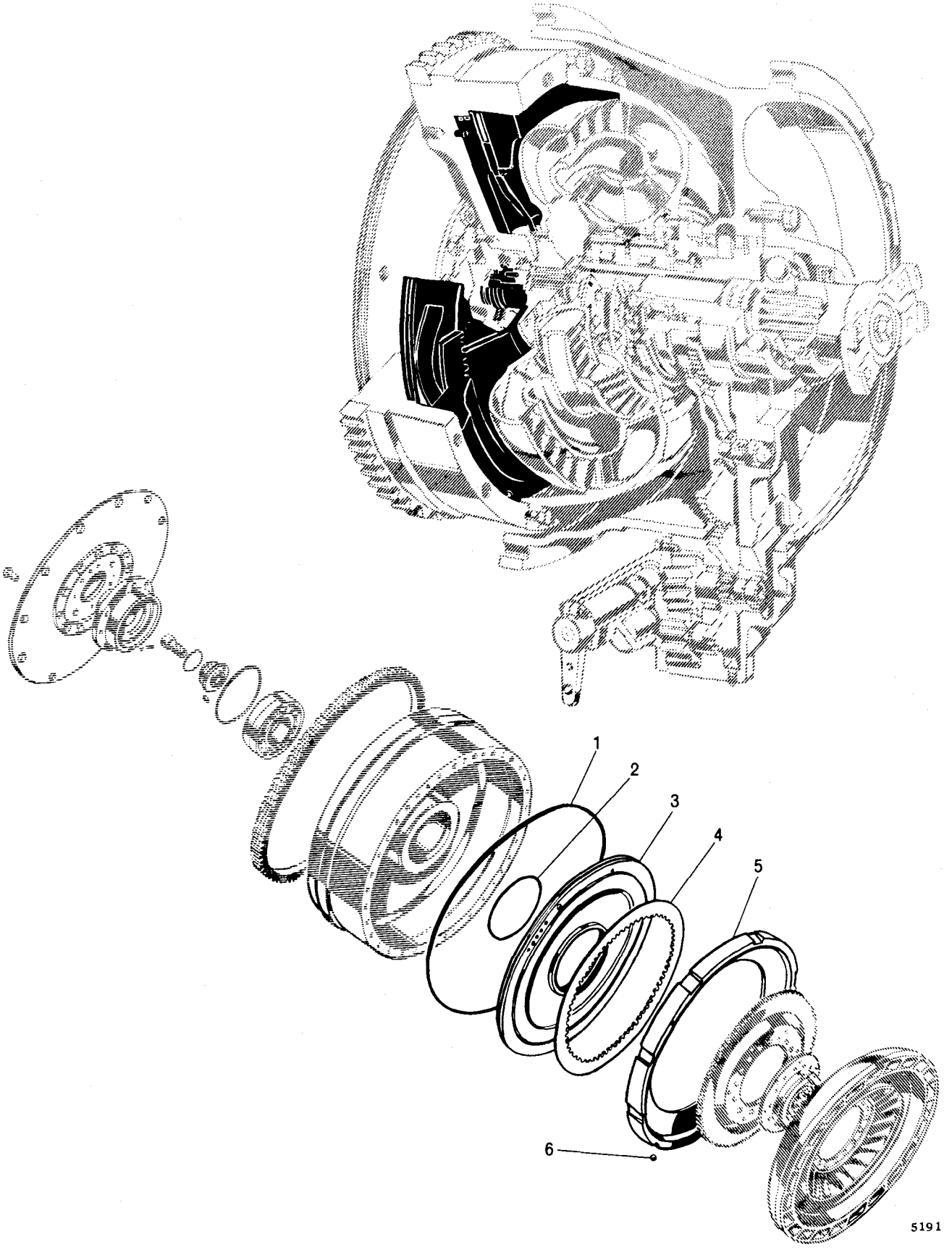

FIG. 11-1. HYDRAULIC INPUT LOCKUP CLUTCH

GROUP A

HYDRAULIC INPUT LOCKUP CLUTCH, FIGURE 11-1

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS 1-3	4-10	11-25
1	RING, SEAL	6752244	1	1	3	10
2	RING, SEAL	6752037	1	1	3	10
3	PISTON, LOCK-UP CLU	6769944	1		1	2
4	PLATE, CLU FRICTION	6769465	1	1	2	4
5	PLATE, LOCK-UP CLUTCH REACTION	6768656	1		1	2
6	BALL, 1/2 DIA, USE BALL PRIOR TO S/N 16828 . . . ONLY.	147493	1	1	2	3

ORIGINAL OPTIONAL EQUIPMENT
HYDRAULIC INPUT DISCONNECT CLUTCH

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

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
6752868	TCHD 955	A	6773324	TCHDA 855	A
6754798	TCHDA 955	A	6775300	TCHD 855	A
6755022	TCHDA 955	A	6776488	TCHD 955	A
6755538	TCHDA 955	A	6776489	TCHD 955	A
6756652	TCHD 855	A	6777551	TCHD 955	A
6770178	TCHD 854	A	6777617	TCHDA 955	A
6770458	TCHD 955	A	6778162	TCHD 945	A
6771935	TCHD 955	A	6779139	TCHDA 945	A

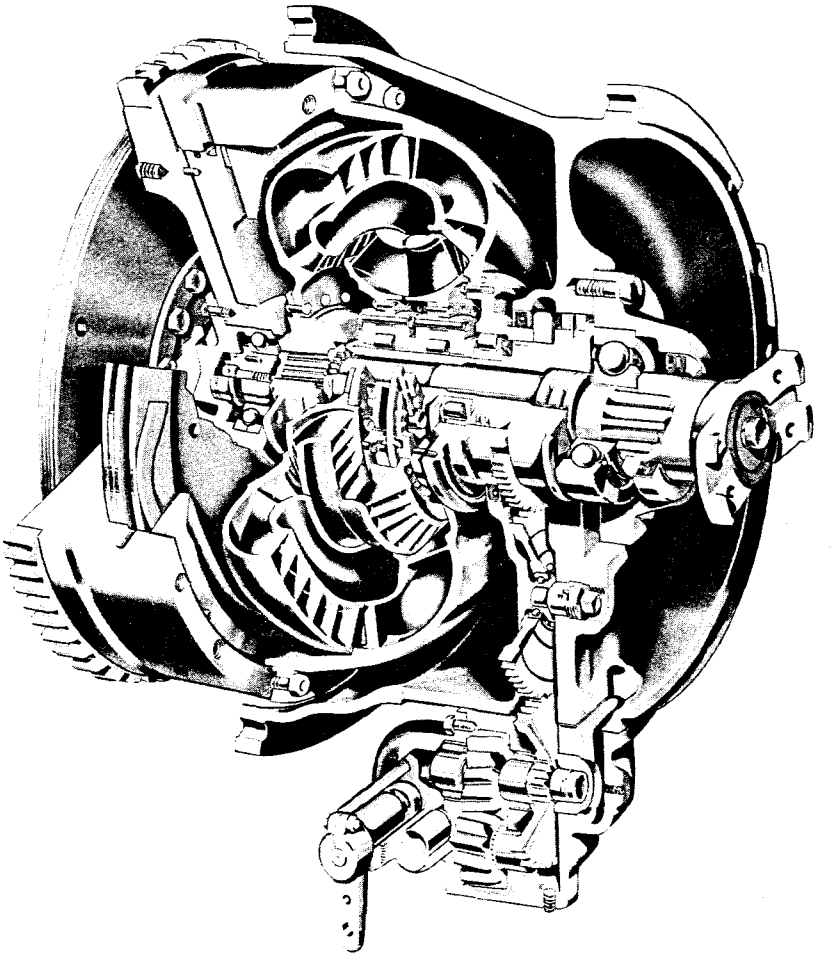

FIG. 12. ALLISON MODEL TCHD TORQMATIC CONVERTER

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

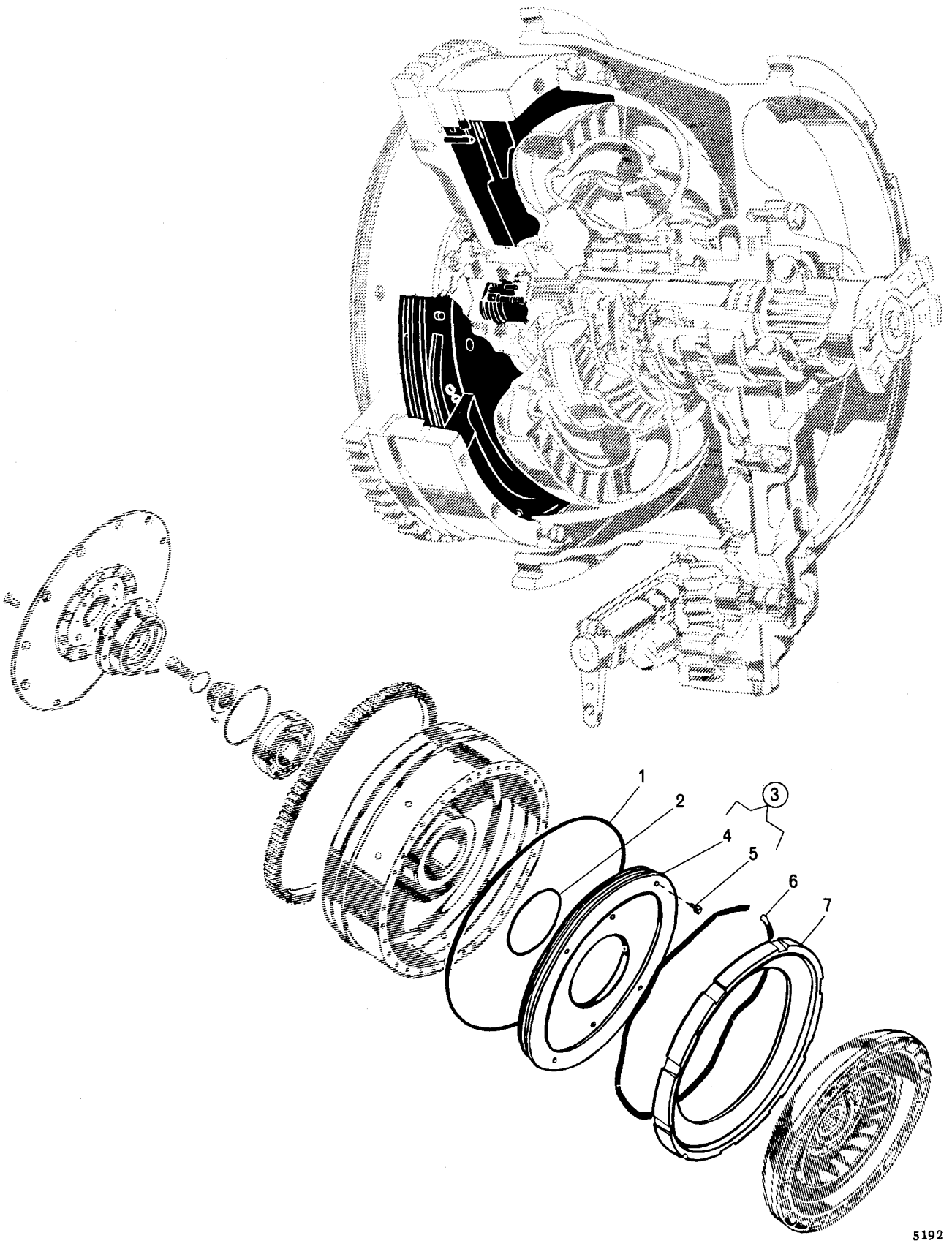

FIG. 12-1. HYDRAULIC INPUT DISCONNECT CLUTCH

GROUP A

HYDRAULIC INPUT DISCONNECT CLUTCH, FIGURE 12-1

REF NO	NOMENCLATURE	PART NO		REQ	RECOMMENDED SPARES FOR UNITS 1-3	4-10	11-25
1	RING, SEAL	6752244		1	1	3	10
2	RING, SEAL	6752037		1	1	3	10
3	PISTON ASSY, HYDRAULIC INPUT DISCONNECT CLUTCH	6779227		1		1	2
4	PISTON, DISCONNECT CLUTCH	6751437	*	1			
5	STOP	6751438		4	4	8	12
6	SPRING, PISTON RELEASE	6750195		1	1	2	5
7	PLATE, DISCONNECT CLUTCH REACTION, SEE SPI 259	6768656		1		1	2

ORIGINAL OPTIONAL EQUIPMENT
MANUAL, OVERCENTER, INPUT DISCONNECT CLUTCH

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

A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
6773816	TCDA 845	A	6832923	TCD 855	A
6773897	TCD 845	A			

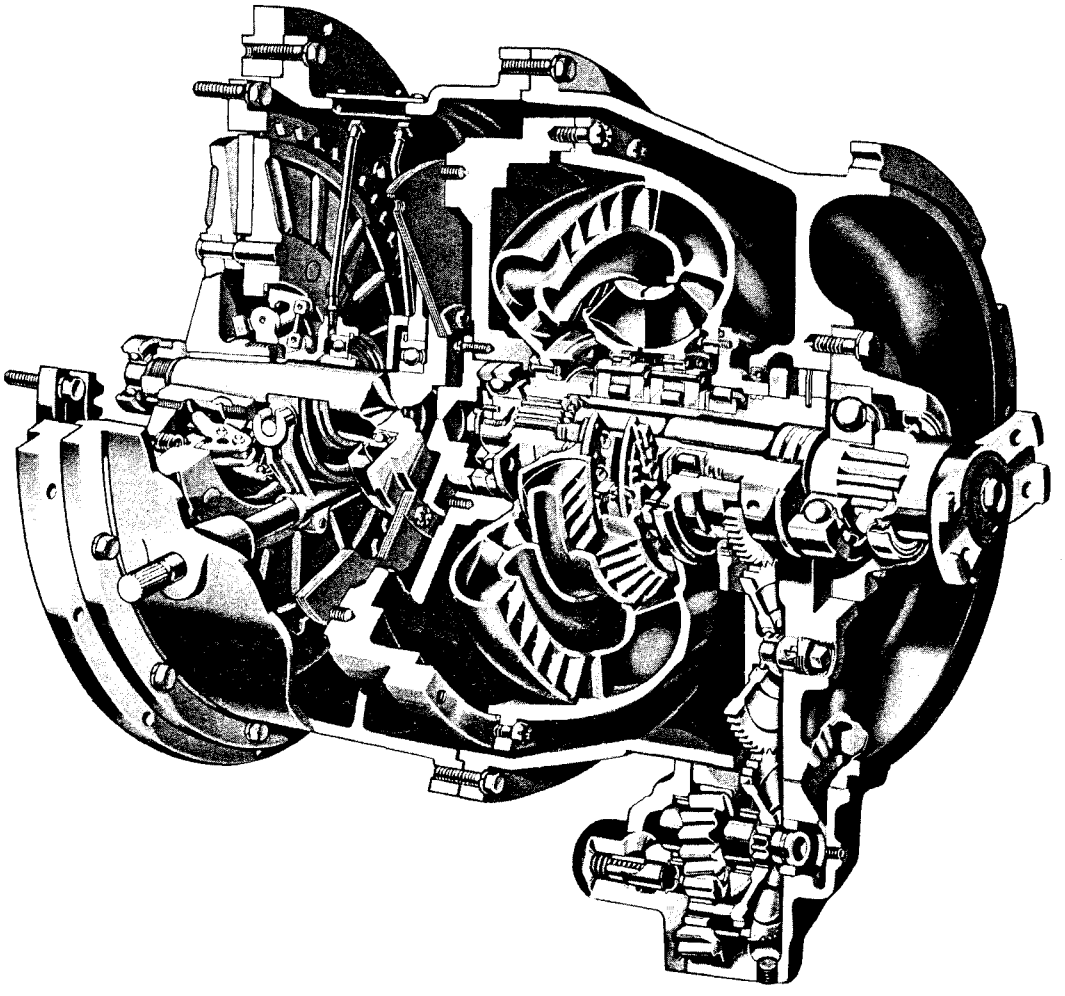

FIG. 13. ALLISON MODEL TCD TORQMATIC CONVERTER

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

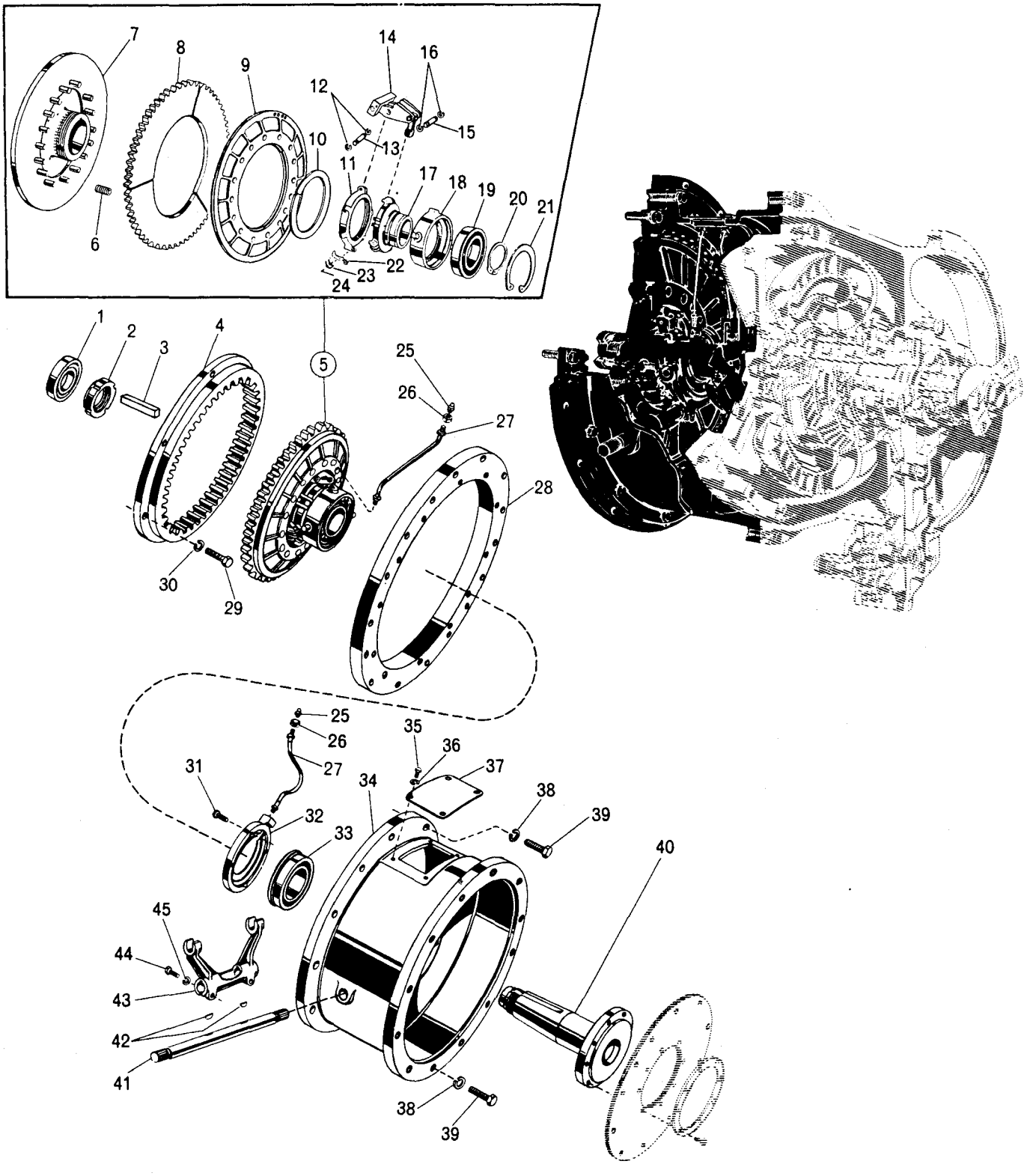

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FIG. 13-1. MANUAL, OVERCENTER, INPUT DISCONNECT CLUTCH

GROUP A

MANUAL, OVERCENTER, INPUT DISCONNECT CLUTCH, FIGURE 13-1

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS 1-3	4-10	11-25
1	BEARING, SINGLE ROW BALL, ND Z99511XR1E	907436	1	1	2	5
2	NUT	6833213	1	1	2	3
3	KEY	6773827	1	1	2	3
4	GEAR, CLUTCH DRIVE	6773823	1		1	2
5	CLUTCH ASSY	6773836	1			1
6	SPRING, SEPARATING	6775406	4	4	8	12
7	HUB, PLATE ASSY	6775112	1		1	2
8	DISK, DRIVING CLUTCH, MATCHED SET OF THREE.	6775113	1 SET	1	2	3
9	PLATE, BACK	6775114	1		1	2
10	RING, THRUST	6775103	1		1	2
11	COLLAR, ADJUST	6775102	1		1	2
12	RING, SNAP	6775384	10		10	20
13	PIN, TOGGLE STRAP	6775095	5		5	10
14	TOGGLE ASSY, SET OF FIVE	6775101	1 SET		1	2
15	PIN, TOGGLE LINK	6775094	5		5	10
16	RING, SNAP	6775384	10		10	20
17	SLEEVE, SHIFT	6775104	1		1	2
18	COLLAR, SHIFT	6775105	1		1	2
19	BEARING, SINGLE ROW BALL, ND73L21X1C	907591	1	1	2	5
20	RING, EXTERNAL SNAP, SHIFT SLEEVE	9413424	1		1	2
21	RING, INTERNAL SNAP, SHIFT COLLAR	9425313	1		1	2
22	LOCK, ADJUST COLLAR	6775096	1		1	2
23	SPRING, COLLAR LOCK	6775098	1	1	2	3
24	PIN, ROLL	455289	1	1	3	10
25	FITTING, GREASE, TYPE C, STRAIGHT LUBRICATION 1/8 PTF-EXTRA-SHORT	191758	2	2	4	6
26	NUT, HX JAM, 5/8-18	114498	2	2	4	6
27	TUBE, BEARING LUBE	6771943	2		2	4
28	ADAPTER, SAE 1/2 HSG TO SAE 0 HSG	6759311	1			1
29	BOLT, HX HD, 5/8-11 X 1 3/4	223435	6	6	12	18
30	WASHER, PLN LOCK, 5/8	103325	6	6	12	18
31	BOLT, HX HD, 3/8-16 X 1 1/4	9409030	4	4	8	12
32	RETAINER, BEARING	6773830	1		1	2
33	BEARING, SINGLE ROW BALL, ND 47518X1E	907536	1	1	2	5
34	HOUSING, DISCONNECT CLUTCH	6773834	1			1
35	BOLT, HX HD, 5/16-18 X 1/2	179812	4	4	8	12
36	WASHER, PLN LOCK, 5/16	103320	4	4	8	12

CONTINUED ON NEXT PAGE

GROUP A CONT

MANUAL, OVERCENTER, INPUT DISCONNECT CLUTCH, FIGURE 13-1

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS 1-3	4-10	11-25
37	COVER	6759863	1			1
38	WASHER, PLN LOCK, 1/2	103323	24	24	48	72
39	BOLT, HX HD, 1/2-13 X 1 3/4	179887	24	24	48	72
40	SHAFT, DISCONNECT CLUTCH	6773835	1		1	2
41	SHAFT, CLUTCH SHIFTER	6759859	1		1	2
42	KEY, WOODRUFF, 1/4 DIA X 1 1/8	124556	2	2	4	6
43	YOKE, CLUTCH SHIFTER	5114593	1		1	2
44	BOLT, HX HD, 3/8-16 X 1 3/8	179842	2	2	4	6
45	WASHER, PLN LOCK, 3/8	103321	2	2	4	6

MISCELLANEOUS OPTIONS SECTION

The following gages are optional on all Torqmatic Converters.

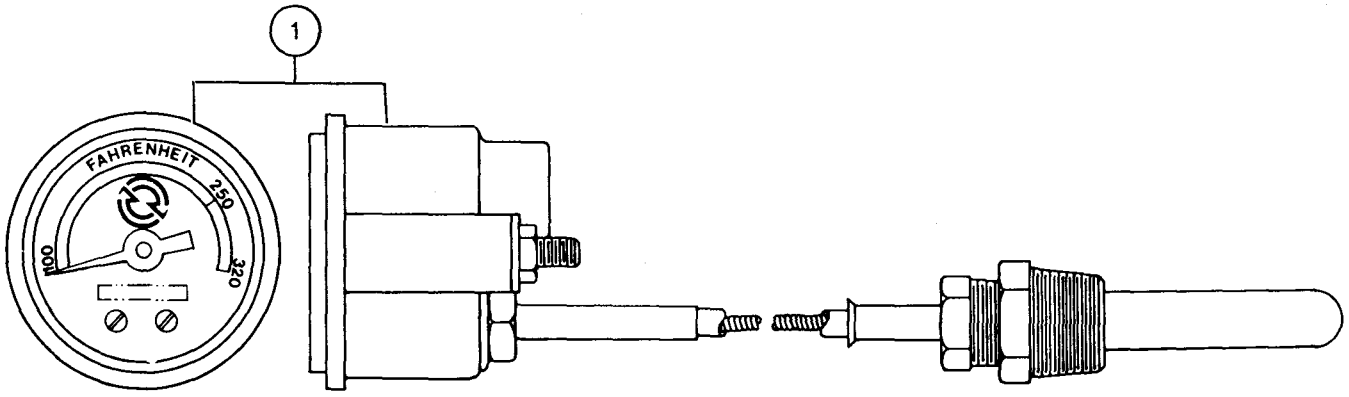

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FIG. 14. OIL TEMPERATURE GAGE

GROUP A

OIL TEMPERATURE GAGE, FIGURE 14

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS 1-3	4-10	11-25
1	GAGE, OIL TEMP, WITH 10 FOOT CAPILLARY	6838457	1	1	2	3
1	GAGE, OIL TEMP, WITH 6 FOOT CAPILLARY	6838458	1	1	2	3

SUPPLEMENTAL PARTS INFORMATION
(SPI)

SPI 79
Page 1 of 2
February 26, 1952

SUBJECT: TORQMATIC CONVERTERS – ALL MODELS – CHART OF ELEMENT ASSEMBLY NOS. AND EFFECTIVITY POINT

Following is a chart showing element assembly numbers, serial number effectivity points, and interchangeability information on all sets of elements for all 900 series converters. The chart is divided into groups to show complete element changeover, and model changes as in converters with and without the integral charging pump. Chart is as follows:

TC-900 Series

Group Nos.	Serial Nos.	Torque Ratio	Element Assy Nos.	Results
VIII Without Integral Pump	100 thru 724	3.6	Pump 6750691	For all models except TCL (Lockup). See ** below.
			Turbine 6750553	
			1st stator 6750671	
			2nd stator 6750669	
			Ground sleeve 6750672	Used only with 6750691
IX Without Integral Pump	725 thru 898 Except S/N in GR. X	3.6	Pump 6751195	Not Interchg. with 6750691 pump assy. For all models except TCL (Lockup). See ** below.
			Turbine 6750553	
			1st stator 6750671	
			2nd stator 6750669	
			Ground sleeve 6751034	Used only with 6751195
			Bearing 7450150	Used only with 6751195

** For TCL or "Lockup" models, use Turbine Assembly 6750827.

Service Manager - Transmissions

Note: This supercedes and cancels page 4 of Service Information Letter No. 79, dated February 26, 1952 .

Group Nos.	Serial Nos.	Torque Ratio	Element Assy Nos.	Remarks
X	775	3.6	Pump 6751949	For all Models except TCL
	777			(lockup). See * below.
With	780		Turbine 6751964	Interchg. with 6752923
Integral	782			(2.6 to 1).
Pump	798		1st stator 6751044	
	802			
	804		2nd stator 6751045	
	805			
	806			
XI	899	3.6	Pump 6751949	For all Models except TCL
	and			(Lock up). See * below.
With	up		Turbine 6751964	Interchg. with 6752923
Integral				(2.6 to 1)
Pump			1st stator 6751044	Interchg. with 6751045.
			2nd stator 6752398	
XII	899	2.6	Pump 6751949	For all Models except TCL
	and			(Lock up). See * below.
With	up		Turbine 6751964	Interchg. with 6751044
Integral				(3.6 to 1)
Pump			1st stator 6752923	
			2nd stator 6752398	

Note: All four assemblies in Groups X, XI, and XII are not interchangeable individually or in complete sets with assemblies in Groups VIII, and IX, and serial no. 101 through 898. This is due to different designs for all elements and the presence of the pump hub tangs for driving the integral charging pump on pump assembly 6751949.

* For TCL or Lockup, use Turbine Assembly 6752143.

Service Manager - Transmissions

SPI 117
Page 1 of 6
July 16, 1953

SUBJECT: TORQMATIC CONVERTER - MODEL TC 950 - CHARGING PUMP COVER REVISION.

The converter charging pump on all Model TC 950 converters has recently been revised to include two regulating valves in the cover in place of the former one. The change was necessary because of the excessive converter and/or transmission clutch pressure on certain installations. This, in turn, made it necessary to use a relief valve in the clutch circuit on the converter and Torqmatic Transmission installations.

To eliminate the need for special relief valves, and to gain a more positive control of the operating pressures, we are pleased to announce that all pump covers now incorporate two valves. The charging pump is now known as the dual valve pump.

The old and new-style pump cover valve operation is shown in Sketch 1. In the old-style cover, various size springs were used to control the minimum clutch or lockup pressure. As noted in the sketch, converter pressure regulation was dependant on the valve moving to the extreme compressed position.

With the new-style cover, the clutch or lockup valve spring has now been standardized with one size for 150 P.S.I. minimum pressure. The converter pressure is accurately regulated now with a separate valve and spring set for approximately 100 P.S.I. maximum pressure and with an adequate by-pass to pump suction.

The hydraulic circuit for the old and new-style cover configuration as used with the Torqmatic Transmission is shown in Sketches 2 and 3. For similar installations in the field, changing the cover to the new-style dual valve type makes it possible to remove the safety or relief valve in the clutch circuit. Cover assemblies are available for this type of changeover (gaskets included). See cover assembly part number information listed on page 2.

Both "A" and "B" size charging pumps will continue to be used on various converter units. The "A" size pump is used with engines rated at 200 horsepower or lower. The "B" size pump with increased flow capacity is used on engines rated above 200 horsepower.

Cover spare parts for both "A" and "B" size pumps will continue to be available for service as noted in the spare parts information listed on page 3.

Starting Serial Number.

Starting Serial Number of this change in production is 4143.

Spare Parts Information.

For all individual or component spare parts information, see page 3, Replaced parts will not be available after effectivity point of the new design in production, unless otherwise noted. Spare parts information is covered for all the complete pump assemblies on page 4.

As used with the Torqmatic Transmission, interchangeability is affected when exchanging the complete pump assemblies. The only thing affected, however, is the relief or safety valve, which must be removed as illustrated in Sketch 3, when exchanging pump assemblies.

Cover Assembly Part Number Information:

Part No.	Name	
6754847	Cover Assy.-Std.	Included are valves, springs, gaskets, etc.
6754848	Cover Assy.-Std. Lockup. (Manually operated Valve.)	Included are valves, springs, gaskets, etc.
6754849	Cover Assy.-Spec. Lockup. (With exterior pressure line.)	Included are valves, springs gaskets, etc.

Part Number and Spare Parts Information.

Qty	Old P/N	Qty	New P/N	Name	Remarks
1	6751731	1	6752885	Cover (Std.)	Use new cover assembly (6754847) for all replacements of the old-style cover.
1	6751941	1	6752884	Cover (Std. Lockup)	Old-style cover is still active and available for service.
1	6752978	1	6754629	Cover (Spec. Lockup)	Use new cover assembly (6754849) for all replacements of the old-style cover.
1	6750877	1	6750877	Valve	Unchanged. Used for converter pressure regulation.
		1	6752882	Valve	Used for clutch pressure regulation.
1	6751418 (80 lb.)	1	6752987	Spring	Use new-style spring (6752987) for all replacements.
1	6752404 (100 lb.)	1	6752987	Spring	Used for converter pressure regulation. Old spring is available for service replacement.
1	6752354 (130 lb.)	1	6752987	Spring	Used for converter pressure regulation. Old spring is available for service replacement.
1	6752355 (150 lb.)	1	6752987	Spring	Used for converter pressure regulation. Old spring is available for service replacement.
		1	6752719	Spring	Used for clutch pressure regulation of 150 P.S.I.
1	6752630	1	6752883	Selector Valve	Old-style valve is available for service replacement.

Pump Assembly Part No. and Spare Parts Information.

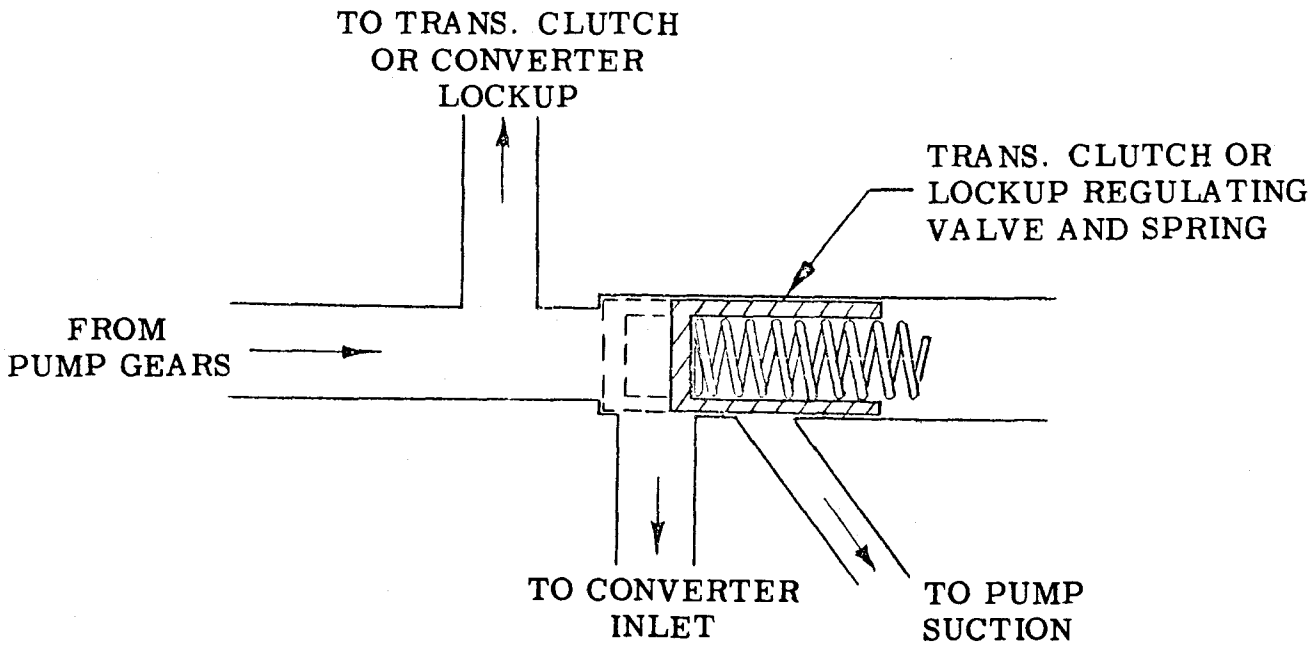
Old P/N	New P/N	Name	Remarks
6752448 (B-100)	6754622	Pump Assy. (Std. "B" Type)	Use new-style pump for all replacements.
6752452 (B-150)	6754622	Pump Assy. (Std. "B" Type)	Use new-style pump for all replacements.
6752464 (B-150)	6754625	Pump Assy. (Std. "B" Lockup)	Use new-style pump for all replacements.
67526752977 (B-150)	6754624	Pump Assy. (Spec. "B" Lockup)	Use new-style pump for all replacements.
6752442 (A-100)	6754621	Pump Assy. (Std. "A" Type)	Use new-style pump for all replacements.
6752444 (A-130)	6754621	Pump Assy. (Std. "A" Type)	Use new-style pump for all replacements.
6752446 (A-150)	6754621	Pump Assy. (Std. "A" Type)	Use new-style pump for all replacements.
6752456 (A-130)	6754623	Pump Assy. (Lockup "A" Type)	Use new-style pump for all replacements.

NOTE: Interchangeability is affected on the above assemblies, but only insofar as the hydraulic circuit is concerned. (See explanation in spare parts information section of letter.)

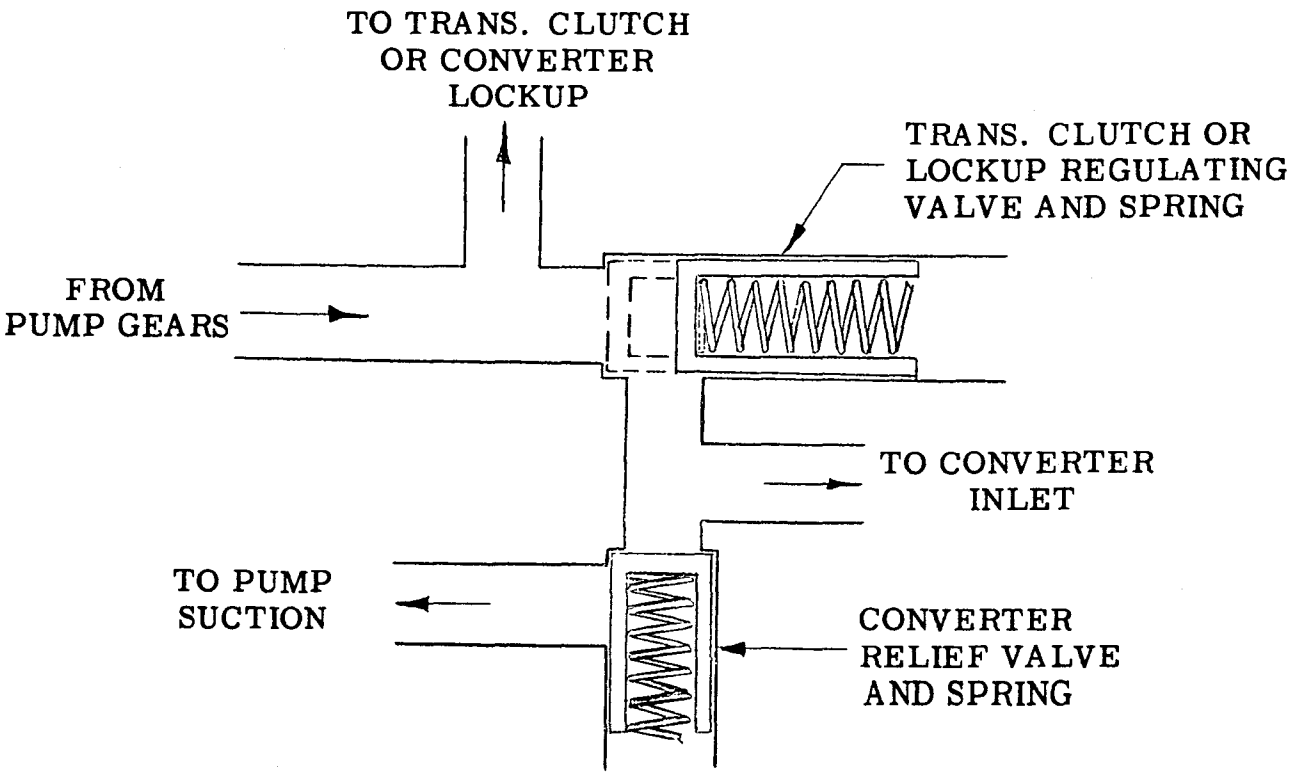
Service Manager - Transmissions

SKETCH #1

OLD STYLE COVER CONFIGURATION

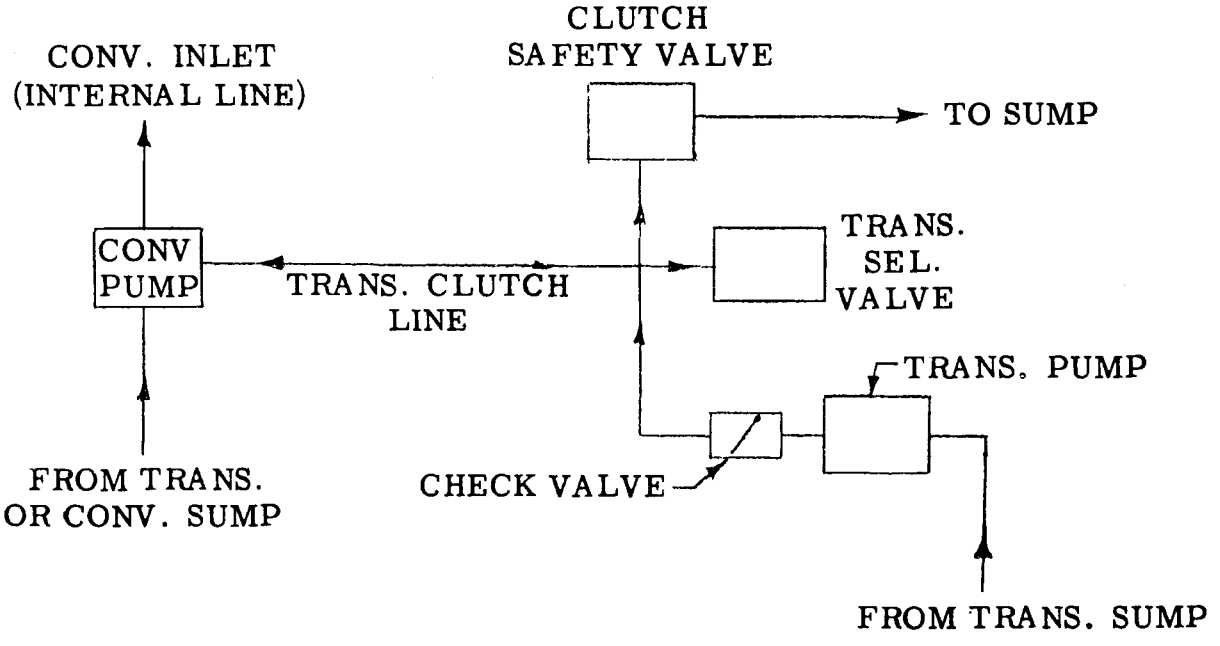


NEW STYLE COVER CONFIGURATION



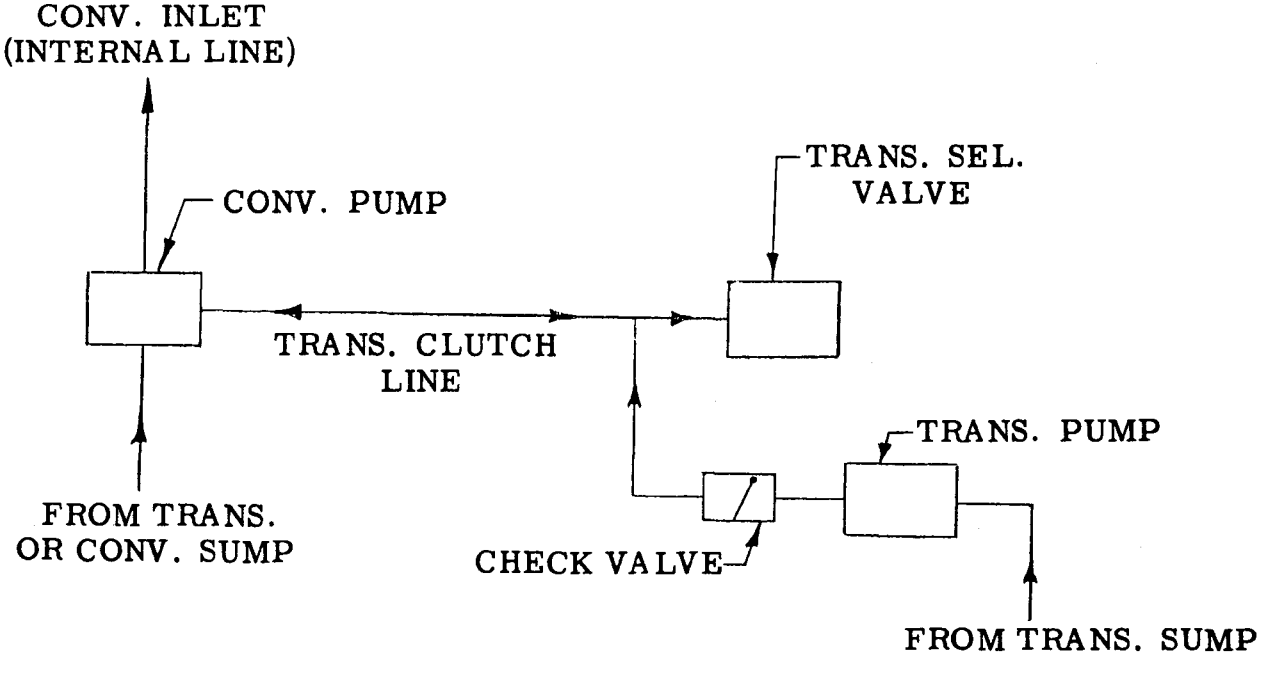
SKETCH #2

SAMPLE HYDRAULIC CIRCUIT WITHOUT
DUAL VALVE COVER



SKETCH #3

SAMPLE HYDRAULIC CIRCUIT WITH
DUAL VALVE COVER



SPI 123
Page 1 of 3
January 13, 1954

SUBJECT: TORQMATIC CONVERTERS - SERIES 800 AND 900 - ALL MODELS AND VARIATIONS - HOUSING CHANGE TO PERMIT ADAPTABILITY FOR USE ON THE NEW RELEASE OF SAE 1/2 ENGINE FLYWHEEL HOUSINGS.

Standardization of all 800 and 900 series Torqmatic Converter housings to agree with the engine manufacturer's release of the SAE 1/2 engine flywheel housing mounting bolt circle is now effective beginning with S/N 4209.

Interchangeability of converter housings before and after Serial No. 4209 is affected. The only change is increasing the number of mounting bolt holes from 20 to 22, equally spaced; thus requiring the relocation of each hole.

Therefore a new part number has been released for each 800-900 series -

Torqmatic Converter Housing
Torqmatic Converter Housing Assembly
Torqmatic Converter Assembly

In like manner, all superceded part numbers are cancelled. Service requirements will, however, be maintained on the Torqmatic Converter housing assemblies only.

Part Name	New Part No.	Old Part No.
Converter housing	6754632	6753542
Converter housing	6753769	6751749
Converter housing	6753769	6753357
Converter housing assembly	6754633	6753543
Converter housing assembly	6753768	6751971
Converter housing assembly	6753768	6753358
TC-955 Converter assembly	6754645	6753760
TC-955 Converter assembly	6754657	6753262
TC-954 Converter assembly	6754654	6751988
TC-955 Converter assembly	6754655	6751975
TC-955 Converter assembly	6754651	6752523
TCL-954 Converter Assembly	6754653	6752429
TC-954 Converter Assembly	6754652	6752628
TCLA-955 Converter Assembly	6754658	6752801
TC-944 Converter Assembly	6754659	6752954
TC-954 Converter Assembly	6754646	6752517
TC-955 Converter Assembly	6754650	6752634
TCLA-955 Converter Assembly	6754661	6752974
TC-854 Converter Assembly	6754649	6754076

The following new configurations have been released for manufacture.

Part Name	Part No.
TCHD-955 Converter Assembly	6752868
TC-944 Converter Assembly	6754844
TC-844 Converter Assembly	6755479
TCHDA-955 Converter Assembly	6755022

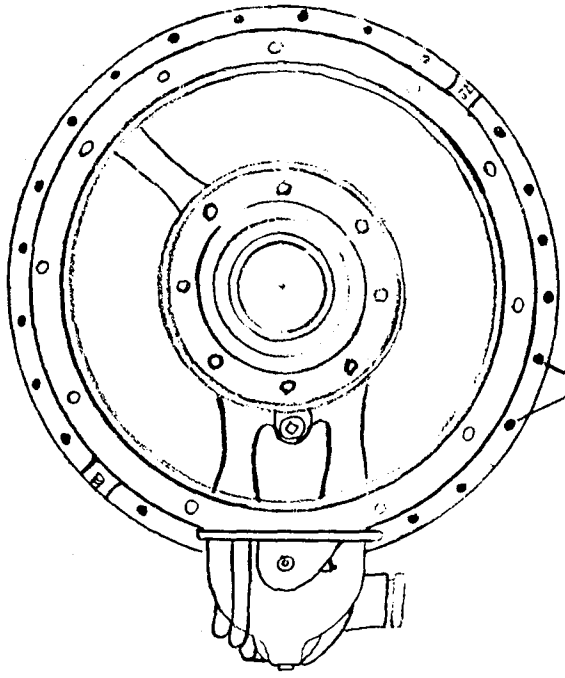
The following converter assemblies have been cancelled for manufacture because of no customer requirements.

Part Name	Part No.
TCL-954 Converter Assembly	6752898
TC-844 Converter Assembly	6752929

Attached is an illustration showing the detail change.

Service Manager - Transmissions

TORQMATIC CONVERTERS (800 & 900 SERIES)



22 holes spaced on the basis of 24 equally spaced holes

STANDARDIZATION OF OUTER BOLT CIRCLE TO CONFORM WITH THE RELEASE OF THE SAE 1/2 ENGINE FLYWHEEL HOUSINGS. THE NUMBER OF HOLES IN THIS CIRCLE HAVE BEEN INCREASED FROM 20 TO 22, REQUIRING THE RELOCATION OF EACH HOLE. NO OTHER DIMENSIONS OR ITEMS ARE INVOLVED BY THIS CHANGE.

SUBJECT: TORQMATIC CONVERTER - SERIES 800 AND 900 - CHANGES INCORPORATED IN THE INTEGRAL CHARGING PUMP DUAL VALVE COVER ASSEMBLY PART NUMBERS 6754847, 6754848, AND 6754849.

Effective with Torqmatic converter Serial No. 4143, the integral charging pump single valve cover was replaced by the dual valve cover (Ref: Service Information Letter No. 117).

Experience with the dual valve cover indicated that certain changes in the cover would be beneficial in controlling the differential between converter and clutch oil pressures in TCL (Lock-Up Clutch) models. In order to standardize machining procedure and parts incorporated in the three dual valve cover assemblies manufactured, the changes made in covers used on lock-up models were also incorporated in the cover used on standard models. In order to assist the field in identifying the various dual valve cover configurations and determine correct converter valve and spring usage, the following will apply.

1. A casting change was made which, in effect, created a "dam" between the clutch oil circuit and the converter oil circuit. Before the new design castings were available the castings on hand were reworked. This rework furnishes the same control of oil flow provided for in the new casting and consists of:

   1.1 The clutch pressure regulator bore in the cover was counterbored oversize to a certain depth, and a steel sleeve was pressed into the counterbore. The sleeve was chamfered on one end for the clutch pressure regulator valve to seat (see Fig. 1). Interchangeability was not affected by this change since the converter pressure regulator valve P/N 6750877 and spring P/N 6752987 remain unchanged. (This is the same converter valve and spring used in the initial release of the dual valve cover, Ref: SIL #117, page 3 of 4.) This change (engineering change letter "D") became effective with Torqmatic converter S/N 4465 through S/N 4647 to include S/N 4450, 4451, 4452, 4454, 4456 and 4457.

In the field, covers to this configuration can be identified by either the change letter "D", which will be acid etched by the piece part number, or the steel sleeve with the chamfer in the clutch circuit bore (see Fig. 1).

2. Effective with Torqmatic converter serial number 4648, a counterbore or countersink was added to the cover to provide additional clearance for the clutch pressure regulator hex head plug P/N 6751410. This counterbore or countersink was made in the threaded end of the clutch pressure regulator bore (see Fig. 2). This change was issued under engineering change letter "E". Coincidental with this change the following changes were also made.

   2.1 The chamfer on the sleeve for the clutch pressure regulator valve to seat (see 1.1 above) was changed to a counterbore in the reworked castings (see Fig. 2). In the machining of the new casting this counterbore configuration was retained (see Fig. 3).

   2.2 Interchangeability was affected by this change because converter pressure regulator valve P/N 6750877 was replaced by valve P/N 6756527, and the converter pressure regulator valve Spring P/N 6752987 was replaced by spring P/N 6756484. In the field covers to this configuration may be identified by the engineering change letter "E" which will be acid etched with the piece part number, the counterbore in the threaded end of the clutch pressure regulator bore, the counterbore in the sleeve on reworked castings (see Fig. 2) or machined in the clutch pressure regulator bore on new castings (see Fig. 3).

3. Effective with Torqmatic converter S/N 4699 the bore for the converter pressure regulator valve and spring was shortened. This was engineering change letter "F". Interchangeability was not affected by this change since the converter pressure regulator valve P/N 6756527 and Spring P/N 6756484 are still used.

NOTE: This page supercedes and replaces page 3 of Service Information Letter No. 141.

with the short bore. In the field, covers to this configuration may be identified by the letter "F" which will be acid etched with the piece part number or by the shorter converter valve bore which is 4.06 ± .010 (see Fig. 3). Before change "F" this bore was 4.50 ± .010.

NOTE: Effective with change "E" (Ref: 2.2 above) and Torqmatic converter S/N 4648, the converter valve P/N 6750877 and spring P/N 6752987 were replaced by converter valve P/N 6756527 and spring P/N 6756484. The shorter spring P/N 6756484 and the new valve P/N 6756527 maintain the same oil pressure in the long converter valve bore (this bore shortened at change "F", see 3 above) that they maintain in the short converter valve bore. This is possible due to the function of the valve which is to bypass converter oil in excess of the maximum allowable pressure.

Spare Parts Information

Service stock must be maintained on converter pressure regulator valve P/N 6750877 and spring P/N 6752987 for dual valve covers prior to change "E" and prior to Torqmatic converter S/N 4648.

NOTE: Allison production stock and service stock on converter pressure regulator spring P/N 6756484 has been color coded RED on each end. This change was effective with Torqmatic converter Serial No. 6021.

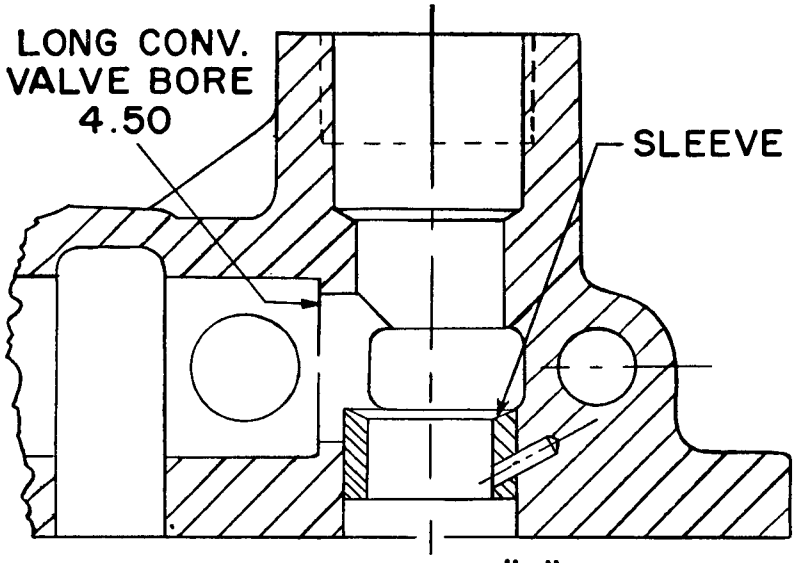
The following chart was designed to show in brief form the changes in the covers and the effectivity breakpoint. The column at the left lists the converter serial number breakpoint, while the listings at the top contain the changes with inclusions, effective converter valve and spring and interchangeability information.

Service Manager - Transmissions

Conv. Serial No. B/P	Release of Dual Valve Cover — Long Conv. Valve Bore	Change "D" Chamfered Sleeve — Long Conv. Valve Bore	Change "E" Sleeve or Casting C'Bored — Long Conv. Valve Bore	Change "F" Short Conv. Valve Bore	Converter Valve P/N 6750877	Converter Valve P/N 6756527	Converter Spring P/N 6752987	Converter Spring P/N 6756484	Interchangeability	
									Affected	Not Affected
4143	X				X		X			
4465 - 4647 & Including 4450, 51, 52, 54, 56, 57		X			X		X			X
4648 & Up			X			X		X	X	
4699 & Up			*	X		X		X		X

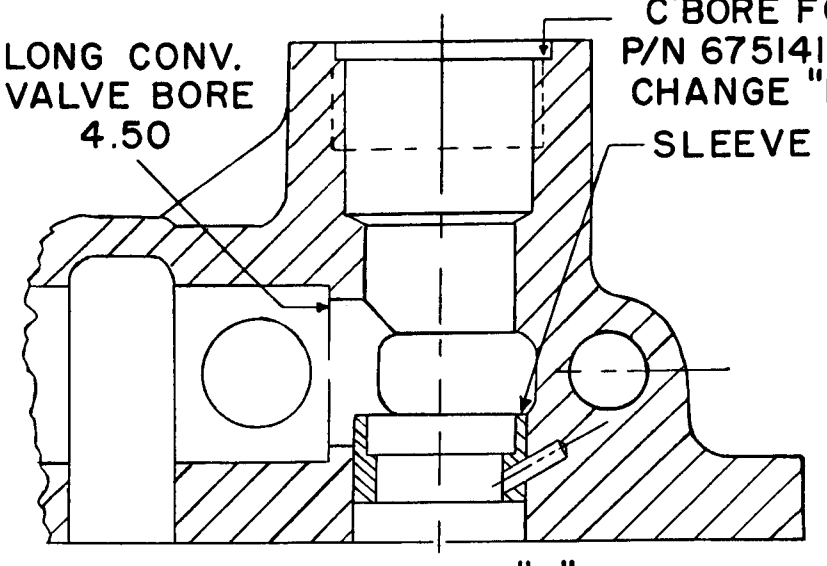
* C'Bore for Clutch Valve Seat Machined in New Castings.

FIGURE 1



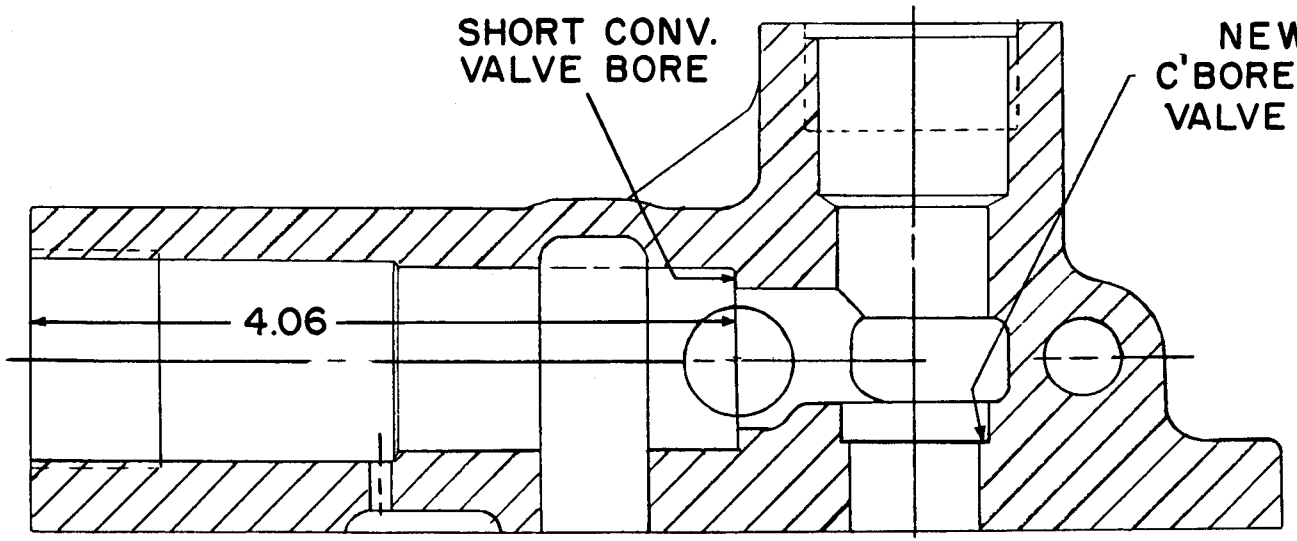
CHANGE "D"
SLEEVE WITH CHAMFER

FIGURE 2

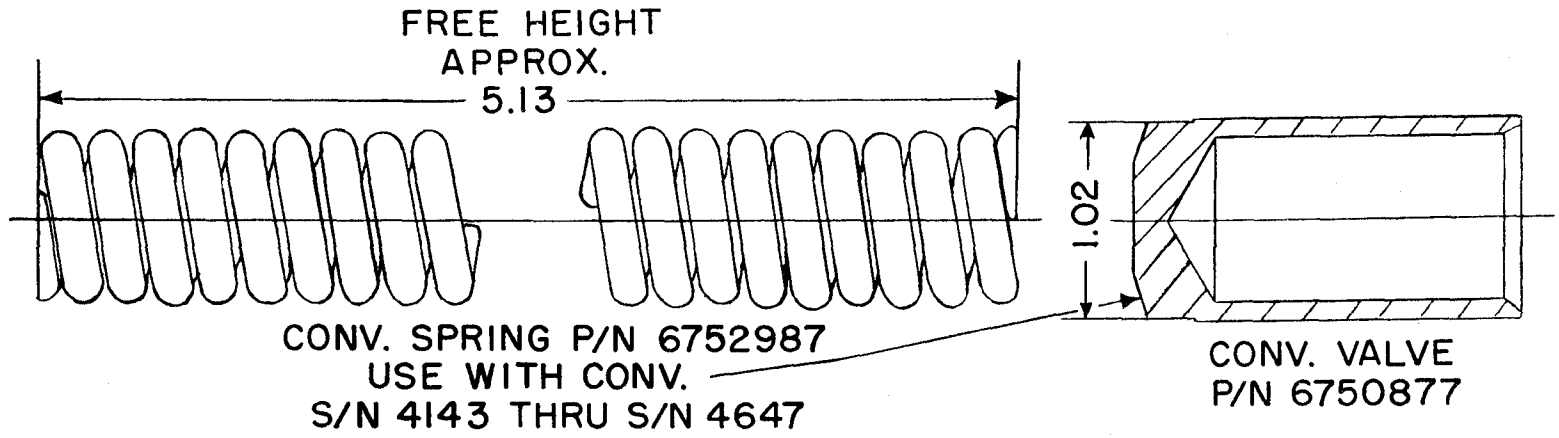


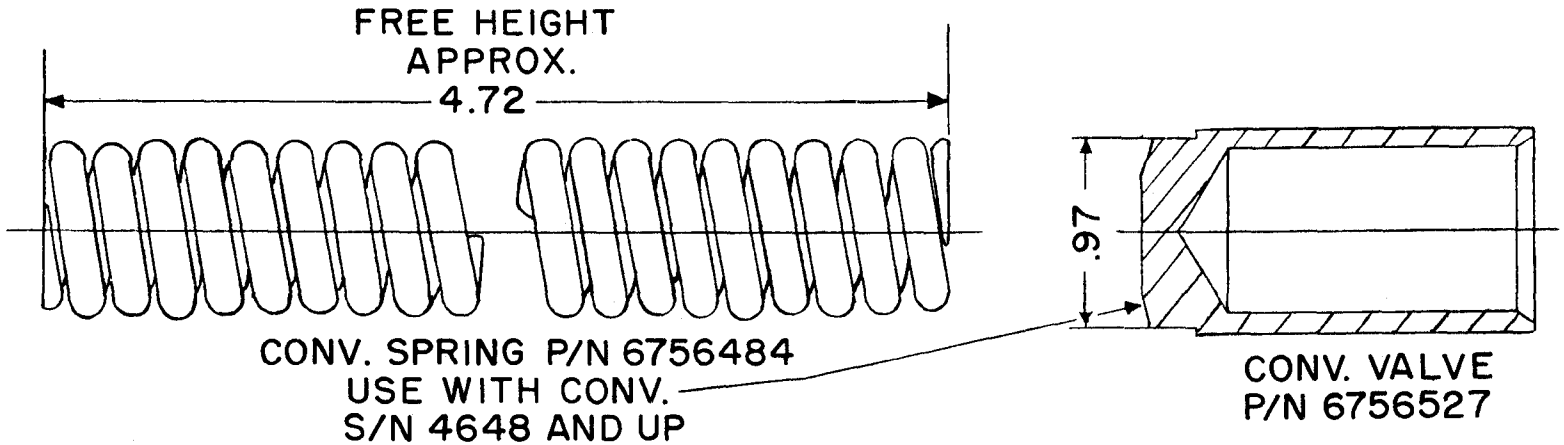
CHANGE "E"
SLEEVE WITH CHAMFER

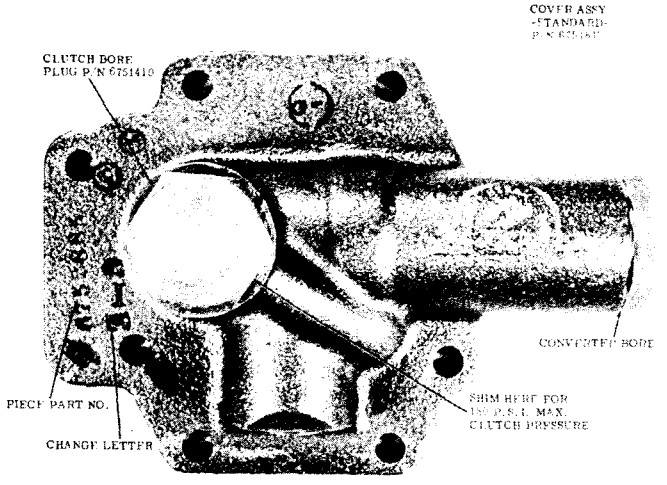
FIGURE 3

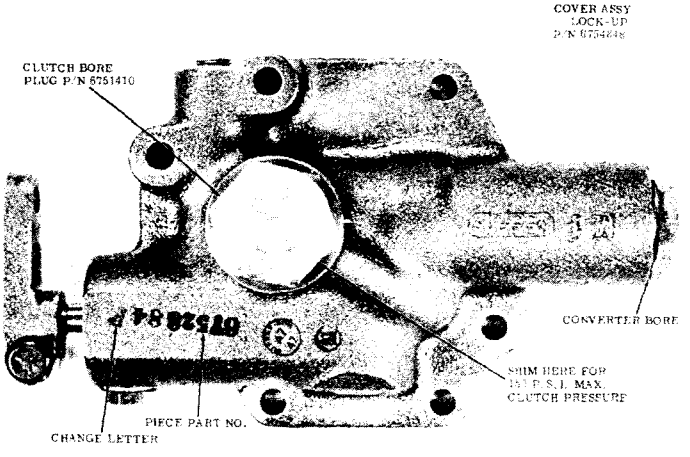


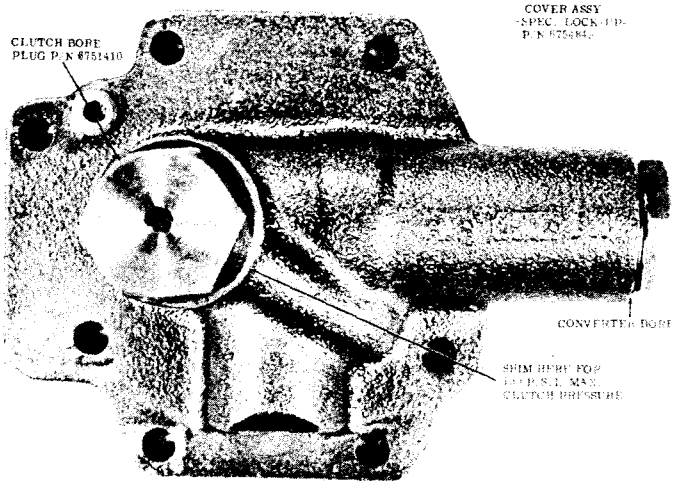
CHANGE "F" SHORT CONV. VALVE BORE


FREE HEIGHT
APPROX.
5.13
1.02
CONV. SPRING P/N 6752987
USE WITH CONV.
S/N 4143 THRU S/N 4647
CONV. VALVE
P/N 6750877


FREE HEIGHT
APPROX.
4.72
.97
CONV. SPRING P/N 6756484
USE WITH CONV.
S/N 4648 AND UP
CONV. VALVE
P/N 6756527


COVER ASSY
-STANDARD-
CLUTCH BORE
PLUG P/N 6751410
CONVERTER BORE
SHIM HERE FOR
PIECE PART NO.
CHANGE LETTER


COVER ASSY
LOCK-UP
CLUTCH BORE
PLUG P/N 6751410
CONVERTER BORE
SHIM HERE FOR
PIECE PART NO.
CHANGE LETTER


COVER ASSY
-SPEC. LOCK-UP-
CLUTCH BORE
PLUG P/N 6751410
CONVERTER BORE
SHIM HERE FOR

SPI 259
Page 1 of 5
December 4, 1956

SUBJECT: TORQMATIC CONVERTER - TC-800 & 900 - ALL MODELS INCORPORATING A LOCKUP CLUTCH OR HYDRAULIC DUMP PISTON - CHANGES MADE IN LOCKING REACTION PLATE AND PISTON TO FLYWHEEL.

In order to provide a more positive locking of the reaction plate to the flywheel and to assure that the reaction plate will not turn within the flywheel, a reaction plate locking pin P/N 6759346 has been released for all subject models, which replaces the ball formerly used to lock the reaction plate to the flywheel. The round end of the new locking pin is pressed into the flywheel. The other end has two (2) flat sides which fit in a machined slot in the reaction plate. This provides more contact between the locking device and the reaction plate, thereby assuring a more positive lock of the reaction plate to the flywheel.

Effective on all subject units except the TC-800, 900 and simultaneous with the above change is the addition of two (2) dowel pins to the lockup clutch piston. Formerly, the lockup clutch piston and the flywheel contained two (2) dowel holes each. They now include four (4) dowel holes each. Therefore, we now have four (4) dowels instead of two (2) to keep the lockup clutch piston from turning within the flywheel.

The following list shows the new parts released and the cancellations due to these changes:

Parts Released	Parts Cancelled	Nomenclature	Model	Quan. Per Unit
	147493	Ball - Reaction Plate Locking	TC-800, 900	1
6759346		Pin - Reaction Plate Locking	TCL & TCHD-800 & 900	1
6768238	6751439	Plate - Reaction	TCL, TCHD-800, 900	1
6759562	6752847	Flywheel Assembly	TCHD-800 & 900	1
6768237	6751436	Flywheel	TCHD-800 & 900	1

Parts Released	Parts Cancelled	Nomenclature	Model	Quan. Per Unit
6759563	6755539	Flywheel Assembly	TCHD-900	1
6759573	6755540	Flywheel	TCHD-900	1
6759564	6755576	Flywheel Assembly	TCHD-900	1
6768237	6751436	Flywheel	TCHD-800 & 900	1
6759570	6751467	Flywheel Assembly	TCL-900	1
6759577	6751459	Flywheel	TCL-900	1
6759571	6756699	Flywheel Assembly	TCL-800	1
6759576	6756696	Flywheel	TCL-900	1
6759572	6758911	Flywheel Assembly	TCL-900	1
6759577	6751459	Flywheel	TCL-900	1

Interchangeability is affected by this change in that the old and new parts cannot be used together without reworking the old parts.** Old flywheels and reaction plates may be reworked for use with the new locking pin. In reworking the old flywheels, the radial location of the hole to be drilled for the new locking pin must be centrally located between any of the drilled and tapped converter pump mounting holes in order to avoid breaking out into one of the drilled and tapped holes. The dimension from the mounting face is listed below under "A" dimension for the different models. Flywheels that already contain the half hole for the ball, will only require drilling the hole deeper and to a larger diameter as shown on Sketch No. 1.

**The exception to this is the new lockup piston P/N 6768273 which may be used in old or new models.

Converter Model		Dimension "A"
TCL, TCHD-800 & 900 ***	Flywheel	1.00

***See Allison Service Information Letter Serial No. 144.

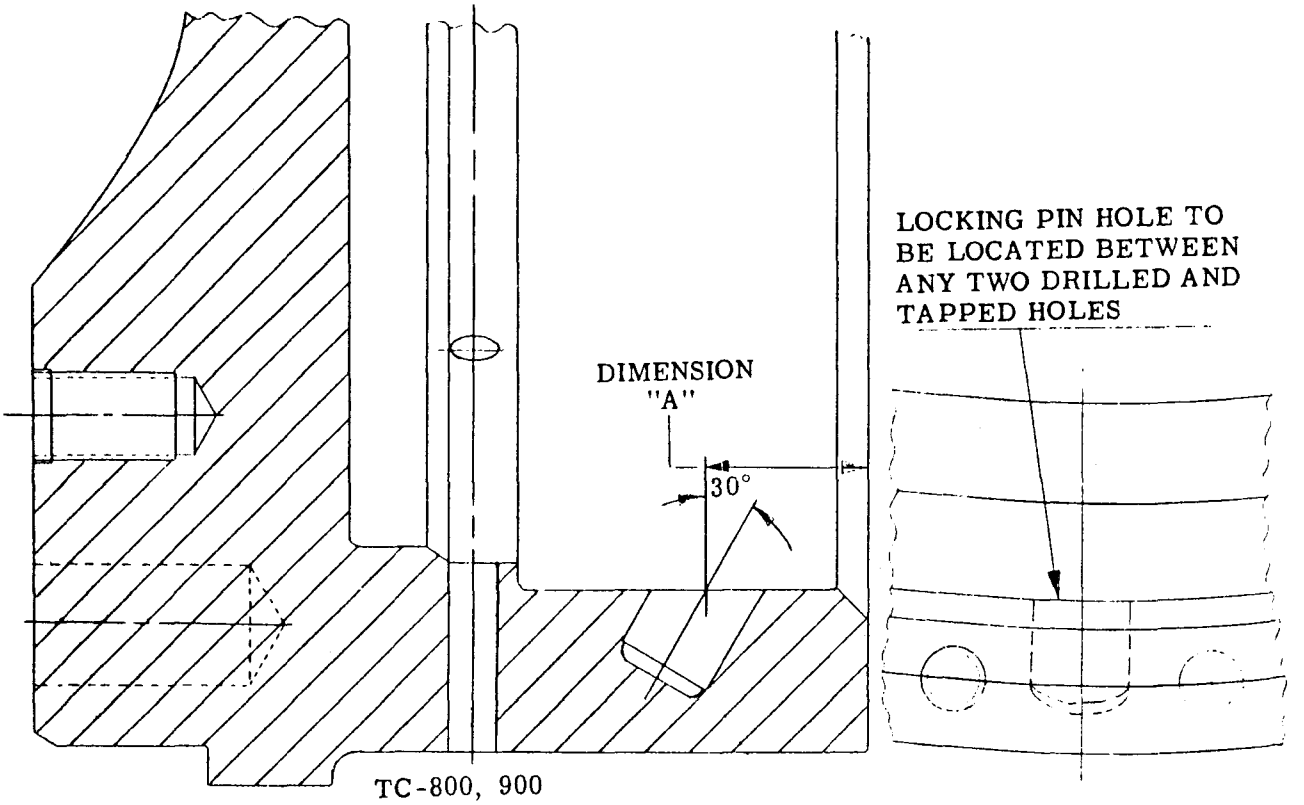
If the reaction plate is to be reworked for use with the new locking pin and already contains a slot for the locking ball, a new slot for the locking pin should be cut approximately 180° from the slot for the locking ball. The slot for the locking pin on all reaction plates to be reworked, should be cut to the dimensions shown on Sketch No. 2. If necessary to rework a piston containing two (2) dowel holes to the four (4) dowel hole configuration, four (4) new holes should be drilled to the dimensions shown on Sketch No. 2. The four (4) holes must be 90° apart and within .005 of correct location. It is difficult to locate off of drilled holes for the purpose of drilling addition holes and maintain the required .005 tolerance.

Spare Parts Information:

All spare parts presently in stock should be used. A supply of reaction plate locking ball P/N 147489 and 147493 should be maintained for service.

Service Manager - Transmissions

SKETCH NO. 1



TC-800, 900
FLYWHEEL

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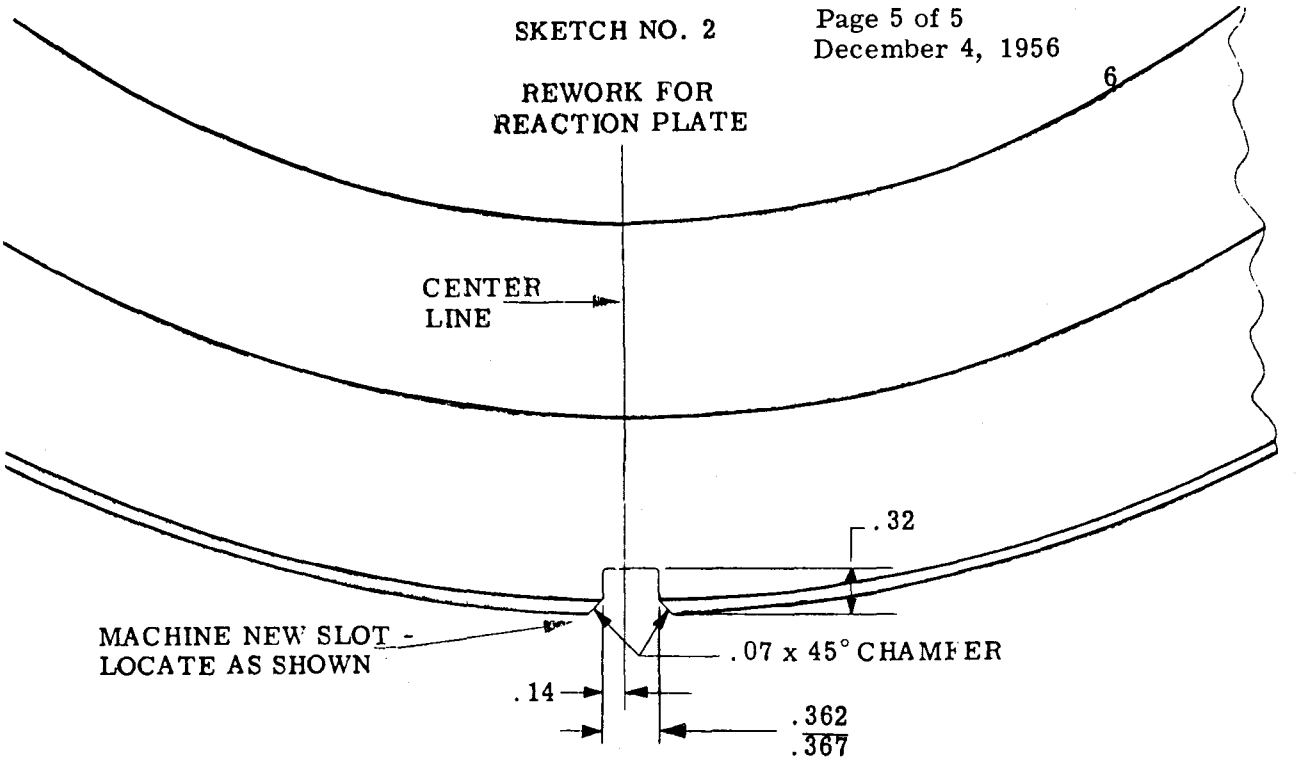
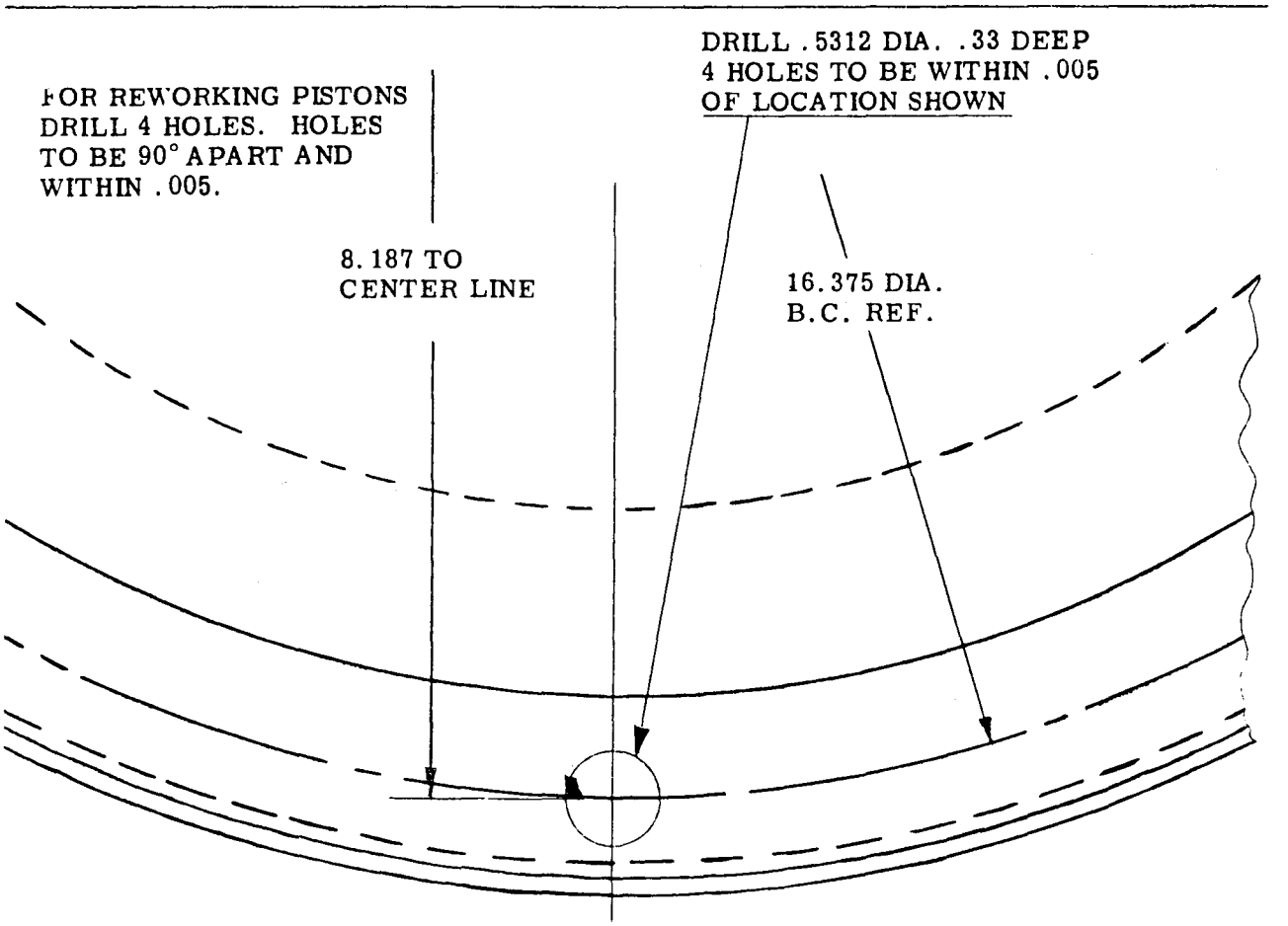
December 4, 1956

SKETCH NO. 2

REWORK FOR
REACTION PLATE





SPI 290
Page 1 of 3
July 5, 1957

Subject: Torqmatic Converters - TC-800-900 - All Models - Release of New Turbine Hub

As a product improvement, new turbine hubs have been released for the subject units. Use of the new hubs eliminates the requirement for the ground sleeve snapring P/N 6750188 and one thrust washer P/N 6750212.

Parts changes are as follows:

New Part No.	Deleted Part No.	Nomenclature	Model	Qty.
6769147	6751964	Turbine Assy.	All TC-800 & 900 without Lockup	1
6768766	6750667	Hub	Same	1
6769148	6752143	Turbine Assy.	All TC-800 & 900 with Lockup	1
6768767	6750191	Hub Assy.	Same	1
6768768	6750185	Hub	Same	1
None	6750188	Snapring, Ground Sleeve	All	1
None	6750212	Washer	All	1
6769163	None	Adapter	All (Serv. only)	1
9409035	None	Bolt	All (Serv. only)	2

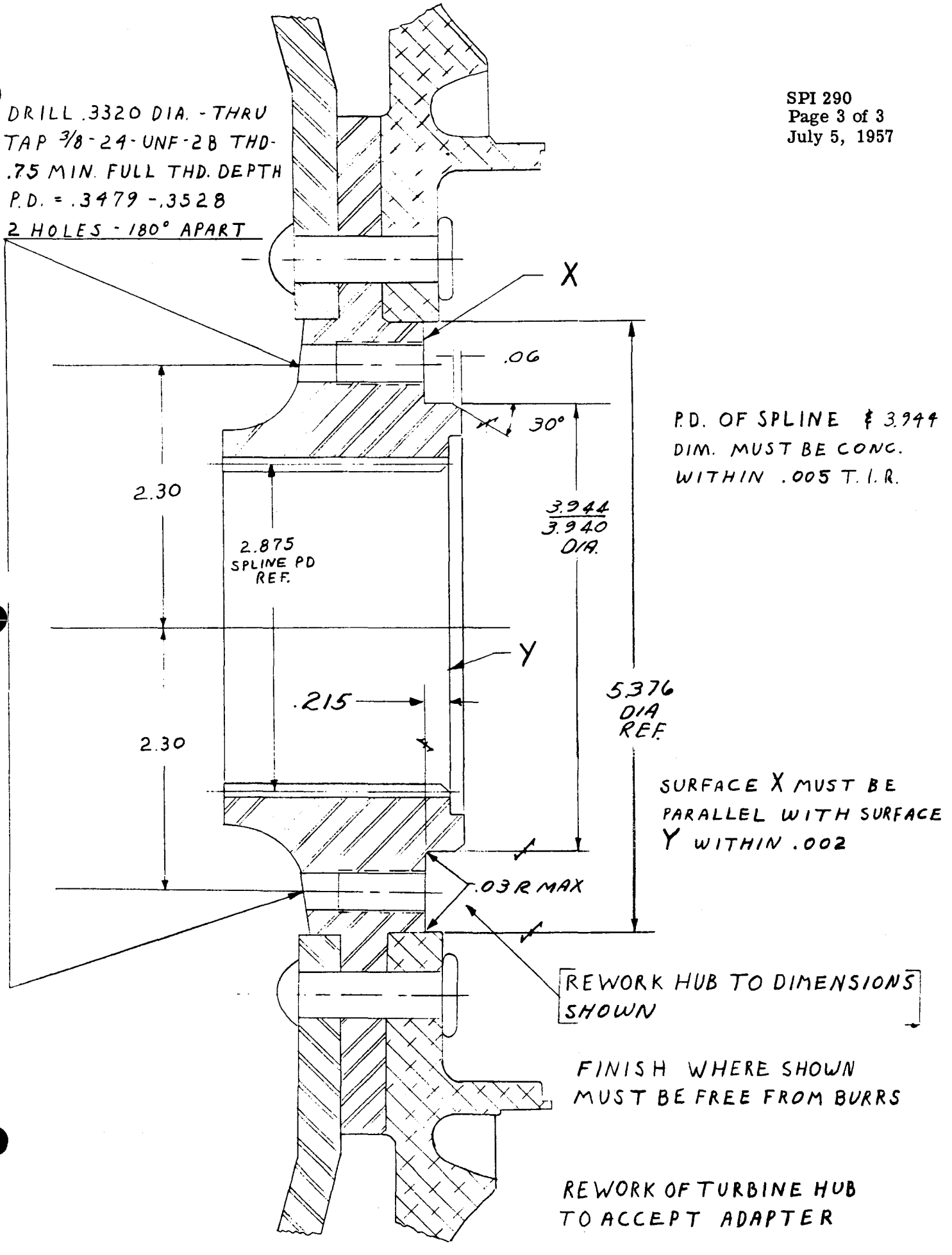
The adapter P/N 6769163 and the bolts P/N 9409035 are for use in reworking old hubs. The rework required is shown on the attached sketch.

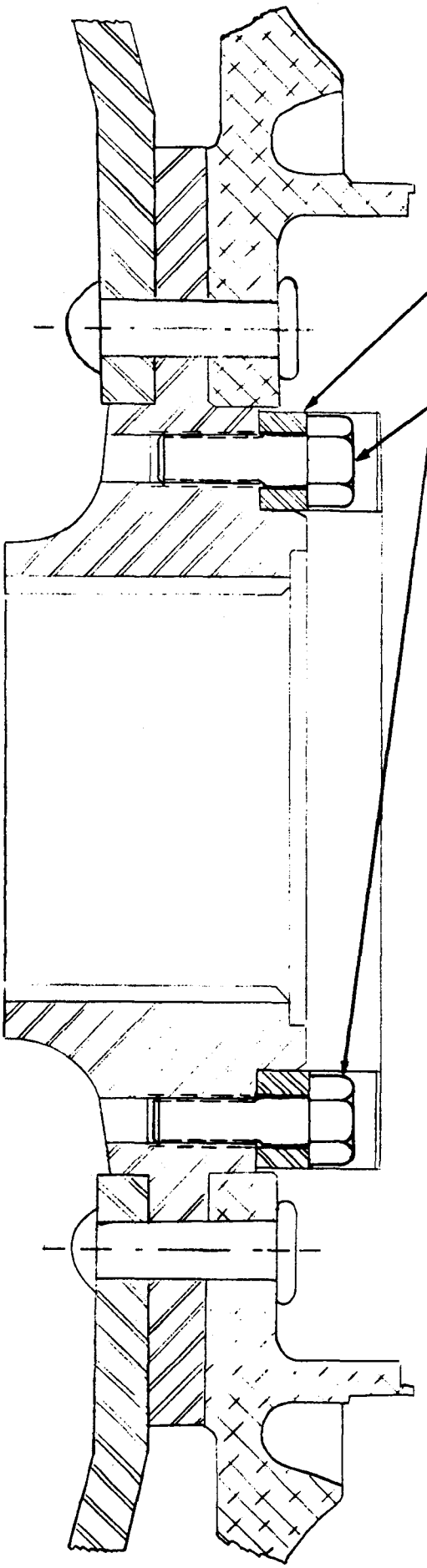
The ground sleeve on which the converter pump assembly is mounted will continue to have the snapring groove, even though the snapring is no longer used. This groove is for machining purposes only.

Spare Parts Information:

All old parts in spare parts stock should be used. Hubs, hub assemblies and turbine assemblies may be reworked.

Service Manager
Transmissions Operations


DRILL .3320 DIA. - THRU
TAP 3/8 - 24 - UNF - 2B THD -
.75 MIN. FULL THD. DEPTH
P.D. = .3479 - .3528
2 HOLES - 180° APART
X
.06
30°
P.D. OF SPLINE ∮ 3.944
DIM. MUST BE CONC.
WITHIN .005 T.I.R.
2.30
3.944
3.940
DIA.
2.875
SPLINE PD
REF.
Y
.215
5.376
DIA
REF.
2.30
SURFACE X MUST BE
PARALLEL WITH SURFACE
Y WITHIN .002
.03 R MAX
REWORK HUB TO DIMENSIONS
SHOWN
FINISH WHERE SHOWN
MUST BE FREE FROM BURRS
REWORK OF TURBINE HUB
TO ACCEPT ADAPTER



NOTE: TURBINE THRUST WASHER P/N 6750212 NOT REQUIRED WITH REWORKED HUB ASSEMBLY.

ASSEMBLY OF ADAPTER TO REWORKED HUB

Subject: Release of New Freewheel Roller Springs

Equipment Affected: TC-800 and TC-900 Converters

Effective Serial Numbers: S/N 38380 - TC-800 and TC-900 Converters

New freewheel rollers spring, P/N 6777047, have been released to supersede spring P/N 6751967.

The new, higher capacity springs will insure fast, uniform engagement of the stator rollers, thus reducing the possibility of stuck stators and decreasing roller and roller race wear.

The new and old springs are interchangeable in full sets but must not be mingled.

All old springs, 6751967, in spare parts stock, should be used.

Service Manager
Transmission Operations

Subject: Shims at Turbine Bearing

Equipment Affected: All TC, TCA, TCD, TCDA 800 and 900 Torque Converter Assemblies

Effective Serial Number: 44396 - Exception: 44147, 44148 & 44149 also conform.

As a product improvement, shims have been released for installation between the turbine bearing retainer washer and the end of the converter output shaft (fig. 1). Further, the shaft journal diameter has been increased to provide a tighter fit of the turbine bearing on its shaft and will be introduced into production at manufacturers option.

The shims will provide a close stack fit of components at the converter input area, to insure product reliability for the increasing demands of new converter applications.

Parts required or affected are as follows:

New Part No.	Old Part No.	Qty.	Part Name
6830459	6752624	1	*Shaft
6830460	6750530	1	*Shaft
6750584	6750584	1	Shaft
6751424	6751424	1	Shaft
6752808	6752808	1	Shaft
6752151	6752151	1	Shaft
6779253		As Req'd	Shim (0.005)
6779254		As Req'd	Shim (0.010)
6779255		As Req'd	Shim (0.025)

*Part Number change required

Interchangeability Not Affected

Interchangeability is not affected by these changes. New parts listed may be used on all torque converter assemblies regardless of serial number.

Spare Parts Information

Shafts 6752624 and 6750530 are completely canceled for customer service.

Installation Procedure

1. Remove flex-disc drive assembly, fig. 1.
2. Remove cover and sealring.
3. Remove bolt, washer and retainer washer.
4. Measure from the side of bearing down to the end of the converter output shaft. This measurement will be Dim. "A".

   Note: Be sure bearing is properly seated against its shoulder on the converter shaft.

5. Measure the depth of the lip on the retainer washer. This will be Dim. "B".
6. Subtract Dim. "B" from Dim. "A". This is Dim. "C".
7. Select a shim combination, whereby its thickness will be 0.008 to to 0.012 in. less than Dim. "C".
8. Install required shims, determined in Step 7, above.
9. Install retainer washer.
10. Install special lock washer and retaining bolt. Torque bolt 445-500 lb. ft.
11. Bend edge of special washer against one flat of the head of retaining bolt at one location and distort into hole in retainer washer at another location.
12. Install sealring, preferably a new one, onto cover.
13. Install cover and sealring. Secure cover with six bolts and lockwashers. Torque bolts 30-35 lb. ft.
14. Install flex-disc assembly and secure with twelve bolts and lockwashers. Torque bolts 70-75 lb. ft.

It is recommended that shims be added to all affected torque converter assemblies at the next teardown.

Service Manager - Transmissions

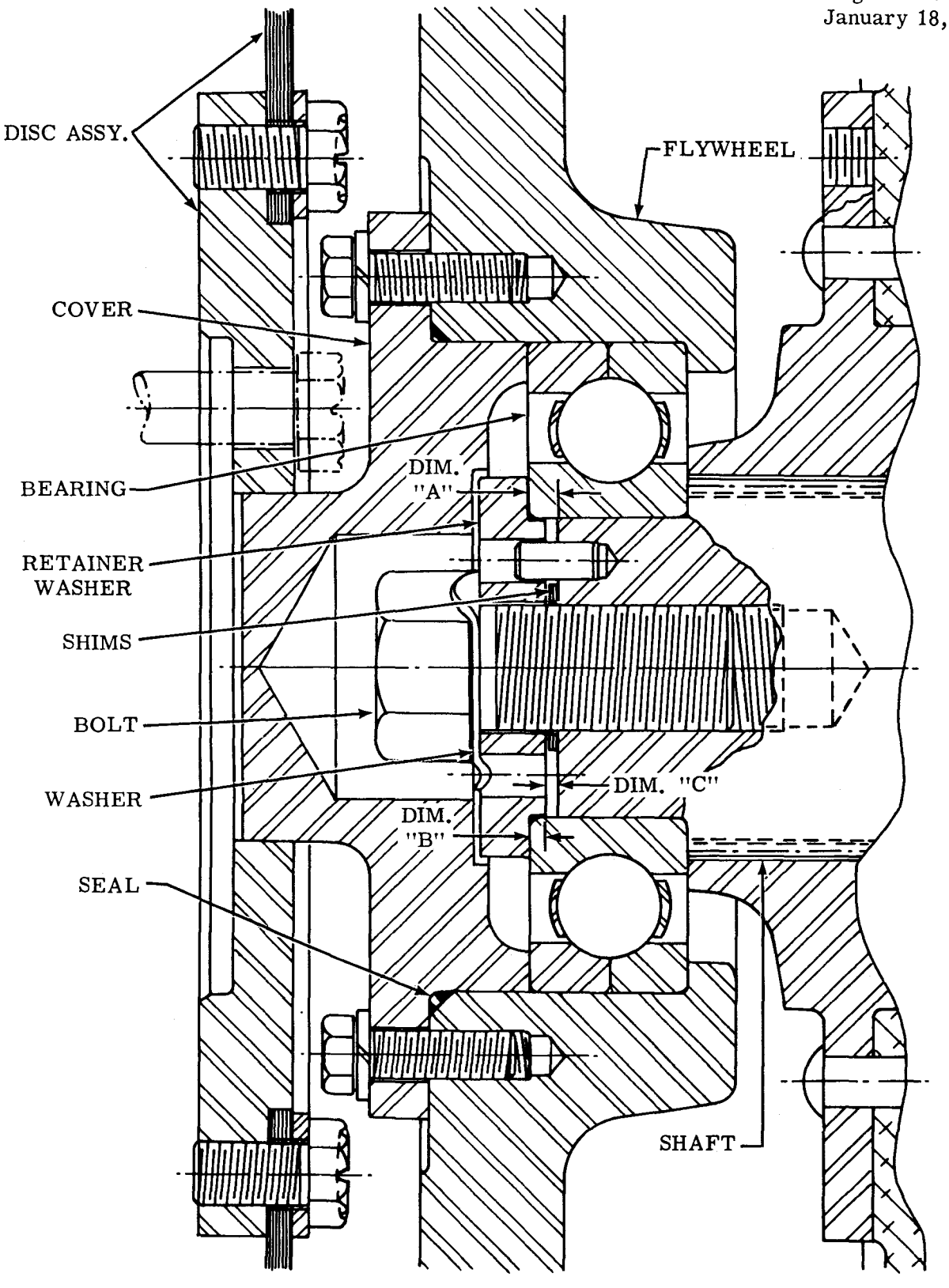


Fig. 1. Measurements to determine retainer washer shim thickness.

SEE BACK OF FRONT COVER
BEFORE USING THIS INDEX

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. Refer to back of front cover.

R - REPLACES RB - REPLACED BY

R - REPLACES RB - REPLACED BY

PART NO	FIG NO	REF NO	HISTORY		PART NO	FIG NO	REF NO	HISTORY	
6750442			RB	6777773	6751437	12-1	4		
6750443			RB	6777774	6751438	12-1	5		
6750468	7	6			6751439			RB	6768238
6750468	7	7			6751453	5	3		
6750522			RB	6771233	6751453	5	17		
6750524			RB	6751481	6751454	5	9		
6750527	7	8			6751459			RB	6759577
6750528	7	3			6751466			RB	6769944
6750529	7	6			6751467			RB	6768604
6750529	7	7			6751481			R	6750524
6750530			RB	6830460	6751481	6	3		
6750532	5	27			6751497	5	3		
6750533	5	32			6751497	5	17		
6750534	5	25			6751516	7	4		
6750548	5	30			6751518	7	5		
6750549	5	30			6751521	7	5		
6750551	5	30			6751524	10-1	6		
6750574	7	3			6751698	7	4		
6750583			RB	6768713	6751731			RB	6752885
6750584	5	6			6751732			RB	6759435
6750667			RB	6768766	6751733	9	36		
6750877			RB	6756527	6751749			RB	6753769
6751044	3	2			6751758			RB	6772564
6751189			RB	148416	6751941			RB	6752984
6751375			RB	6839063	6751949	2	1		
6751377	1	16			6751963	4	7		
6751379	9	28			6751964			RB	6769147
6751382	9	14			6751966	2	2		
6751382	9	17			6751967			RB	6777047
6751382	9	48			6751971			RB	6753768
6751383	9	30			6751990	2	12		
6751385	9	20			6752021			RB	452688
6751410	9	12			6752033	10-1	10		
6751410	9	47			6752034	10-1	8		
6751414			RB	6759438	6752035	10-1	9		
6751418			RB	6752987	6752037	11-1	2		
6751424	5	22			6752037	12-1	2		
6751427	5	2			6752079	6	6		
6751427	5	16			6752090	2	12		
6751436			RB	6768237	6752143			RB	6769148

R - REPLACES RB - REPLACED BY

PART NO	FIG NO	REF NO	HISTORY		PART NO	FIG NO	REF NO	HISTORY	
6752151	5	6			6752923	3	2		
6752215	2	1			6752933	8	2		
6752244	11-1	1			6752935	2	6		
6752244	12-1	1			6752945	6	8		
6752355			RB	6752987	6752946	6	6		
6752373			RB	6757463	6752977			RB	6754624
6752378			RB	6772565	6752978			RB	6754629
6752398	3	5			6752987			R	6751418
6752402	2	6			6752987			R	6752355
6752404			RB	6752987	6752987			R	6752404
6752414	1	17			6752987			RB	6756484
6752415	1	18			6753229	10-1	13		
6752416	9	55			6753230	5	11		
6752423	1	20			6753230	5	26		
6752448			RB	6754622	6753357			RB	6753769
6752452			RB	6754622	6753358			RB	6753768
6752464			RB	6754625	6753364	7	8		
6752471	6	5			6753542			RB	6754632
6752475			RB	3224773	6753543			RB	6754633
6752520	8	1			6753755	6	8		
6752539	6	6			6753756	7	8		
6752585	3	3			6753757	7	4		
6752585	3	6			6753758	7	6		
6752614	10-1	3			6753758	7	7		
6752621	10-1	14			6753761	7	3		
6752622	10-1	4			6753768			R	6751971
6752623			RB	6773856	6753768			R	6753358
6752624			RB	6830459	6753768			RB	6773760
6752630			RB	6752883	6753769			R	6751749
6752631	7	2			6753769			R	6753357
6752632	7	2			6753769			RB	6773761
6752719			RB	6770417	6754103	8	1		
6752808	5	22			6754379	9	16		
6752883			R	6752630	6754618	6	8		
6752884			R	6751941	6754619	6	6		
6752884			RB	6759440	6754622			R	6752448
6752885			R	6751731	6754622			R	6752452
6752885			RB	6759442	6754622			RB	6759444
6752889	1	13			6754624			R	6752977
6752895	2	8			6754624			RB	6759446

R - REPLACES RB - REPLACED BY

PART NO	FIG NO	REF NO	HISTORY		PART NO	FIG NO	REF NO	HISTORY	
6754625			R	6752464	6759437	9	19		
6754625			RB	6759445	6759438			R	6751414
6754629			R	6752978	6759438	9	51		
6754629			RB	6759441	6759439	9	51		
6754631	7	2			6759440			R	6752884
6754632			R	6753542	6759440			RB	6769588
6754632			RB	6773763	6759441			R	6754629
6754633			R	6753543	6759441			RB	6769589
6754633			RB	6773762	6759442			R	6752885
6754634	7	6			6759442			RB	6769587
6754634	7	7			6759444			R	6754622
6754635	7	4			6759444	9	1		
6754636	7	8			6759445			R	6754625
6755539			RB	6768598	6759445	9	1		
6755540			RB	6759573	6759446			R	6754624
6755576			RB	6768599	6759446	9	1		
6756282	1	13			6759447	9	1		
6756484			R	6752987	6759463			RB	6777279
6756484	9	10			6759463			RB	6778897
6756484	9	45			6759463	9	25		
6756527			R	6750877	6759573			R	6755540
6756527	9	9			6759573	6	8		
6756527	9	44			6759576			R	6756696
6756665			RB	6838457	6759576	6	8		
6756667			RB	6838458	6759577			R	6751459
6756696			RB	6759576	6759577	6	8		
6756699			RB	6768605	6759859	13-1	41		
6757463			R	6752373	6759863	13-1	37		
6757463			RB	6771273	6765573	2	3		
6758614			R	9409026	6768237			R	6751436
6758614	2	7			6768237	6	8		
6759311	7	10			6768238			R	6751439
6759311	13-1	28			6768238			RB	6768656
6759434			RB	6777277	6768267			R	6750272
6759434			RB	6778898	6768267			RB	6832907
6759434	9	26			6768447			RB	6771236
6759435			R	6751732	6768448			RB	6771242
6759435	9	13			6768449			RB	6771243
6759435	9	49			6768484	6	6		
6759436	9	15			6768525	2	4		

R - REPLACES RB - REPLACED BY

PART NO	FIG NO	REF NO	HISTORY		PART NO	FIG NO	REF NO	HISTORY	
6768590	6	10			6770415	9	3		
6768597	6	6			6770416			R	6769587
6768598			R	6755539	6770416	9	5		
6768598	6	6			6770417			R	6752719
6768599			R	6755576	6770417	9	6		
6768599	6	6			6770417	9	41		
6768604			R	6751467	6770418			R	6770418
6768604	6	6			6770418			RB	6770418
6768605			R	6756699	6770418	9	7		
6768605	6	6			6770418	9	42		
6768606	6	6			6770419	9	38		
6768640	6	7			6770420			R	6769588
6768656			R	6768238	6770420	9	40		
6768656	11-1	5			6770421	9	3		
6768656	12-1	7			6770422			R	6769589
6768665			R	6750196	6770422	9	5		
6768665	11-1	4			6770432			R	1331511
6768713			R	6750583	6770432			RB	6839163
6768713	8	2			6770493	7	3		
6768766			R	6750667	6770519	6	8		
6768766	4	6			6770527	6	6		
6768767			R	6750191	6770546	9	3		
6768767	4	3			6770547	9	6		
6768768			R	6750185	6770547	9	41		
6768768	4	6			6770653	6	8		
6769147			R	6751964	6770654	7	2		
6769147			RB	6835508	6770655	6	6		
6769148			R	6752143	6770982	10-1	1		
6769148			RB	6835509	6771233			R	6750522
6769587			R	6759442	6771233	5	31		
6769587			RB	6770416	6771236			R	6768447
6769588			R	6759440	6771236	9	2		
6769588			RB	6770420	6771242			R	6768448
6769589			R	6759441	6771242	9	37		
6769589			RB	6770422	6771243			R	6768449
6769636			RB	6830003	6771243	9	2		
6769870	6	7			6771273			R	6757463
6769872	6	6			6771273			RB	6839079
6769944			R	6751466	6771943	13-1	27		
6769944	11-1	3			6772564			R	6751758

R - REPLACES RB - REPLACED BY

PART NO	FIG NO	REF NO	HISTORY
6772564	1	25	
6772565			R 6752378
6772565			RB 6776981
6772619			RB 6777104
6773186			R 6750157
6773186	5	13	
6773265	6	7	
6773729	9	15	
6773730	9	30	
6773731	9	28	
6773743			RB 6778893
6773743	9	26	
6773744			RB 6778894
6773744	9	25	
6773760			R 6753768
6773760	1	8	
6773761			R 6753769
6773761	1	9	
6773762			R 6754633
6773762	1	8	
6773763			R 6754632
6773763	1	9	
6773818	6	8	
6773823	13-1	4	
6773827	13-1	3	
6773830	13-1	32	
6773834	13-1	34	
6773835	13-1	40	
6773836	13-1	5	
6773856			R 6752623
6773856	10-1	1	
6773917	6	6	
6774034	6	8	
6774096	9	1	
6774097	9	38	
6774506			R 6700173
6774506	9	59	
6774871			RB 6779770
6774871	9	1	
6774923	7	2	
6774924	7	3	
6775094	13-1	15	
6775095	13-1	13	
6775096	13-1	22	
6775098	13-1	23	
6775101	13-1	14	
6775102	13-1	11	
6775103	13-1	10	
6775104	13-1	17	
6775105	13-1	18	
6775112	13-1	7	
6775113	13-1	8	
6775114	13-1	9	
6775301			R X-19394
6775301	6	6	
6775302			R X-19393
6775302	6	8	
6775384	13-1	12	
6775384	13-1	16	
6775406	13-1	6	
6776797	5	36	
6776981			R 6772565
6776981			RB 6777125
6777047			R 6751967
6777047	3	10	
6777103	1	23	
6777104			R 6772619
6777104	1	22	
6777125			R 6776981
6777125	1	21	
6777277			R 6759434
6777277	9	26	
6777279			R 6759463
6777279	9	25	
6777432			R 6750170
6777432	3	1	
6777432	3	4	
6777432	3	7	
6777620	9	1	
6777748	9	3	

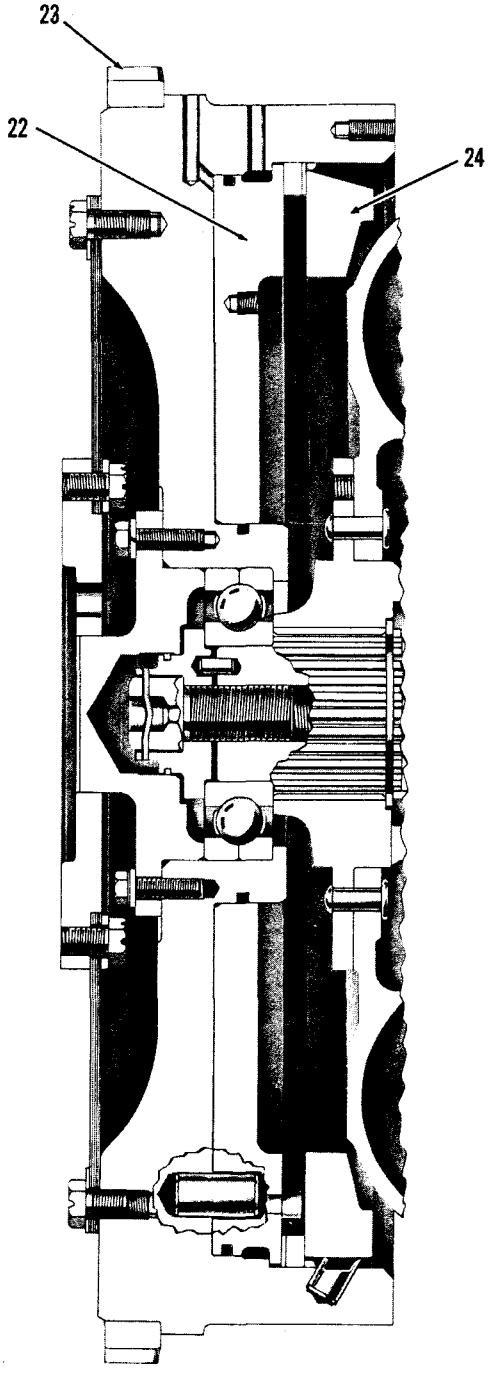
R - REPLACES RB - REPLACED BY

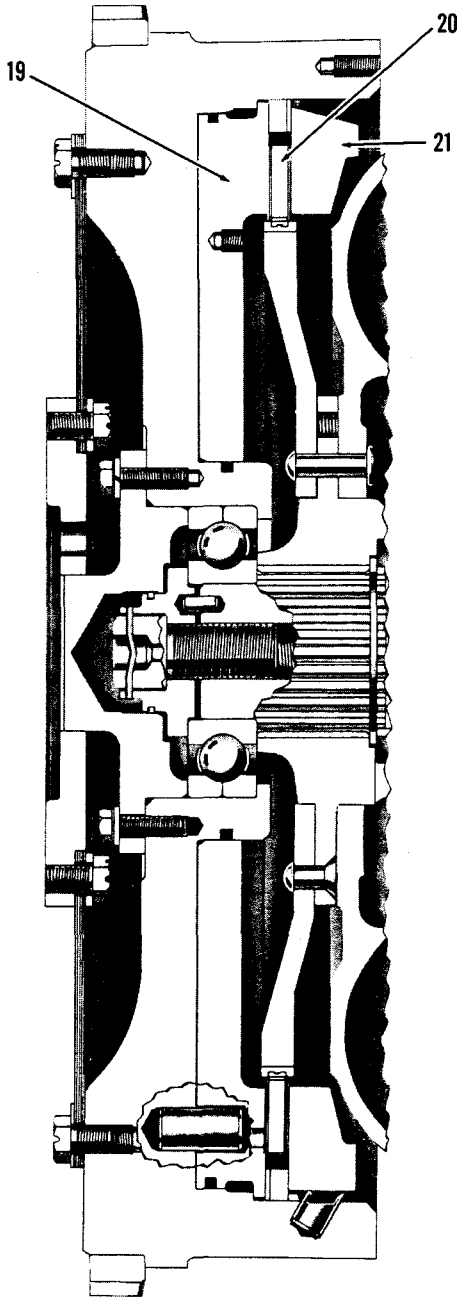
PART NO	FIG NO	REF NO	HISTORY		PART NO	FIG NO	REF NO	HISTORY	
6777749	9	5			6835509	4	1		
6777750	9	65			6838457			R	6756665
6777751	9	66			6838457	14	1		
6777752	9	67			6838458			R	6756667
6777753	9	70			6838458	14	1		
6777754	9	69			6838494			R	6832907
6777755	9	68			6838494	1	10		
6777772			R	6750441	6839063			R	6751375
6777772	2	10			6839063	1	3		
6777773			R	6750442	6839079			R	6771273
6777773	2	10			6839079	1	2		
6777774			R	6750443	6839163			R	6770432
6777774	2	10			6839163	9	18		
6778893			R	6773743	7450150	2	13		
6778893	9	26			9409009	2	5		
6778894			R	6773744	9409026			RB	6758614
6778894	9	25			9409030	13-1	31		
6778897			R	6759463	9409037	2	14		
6778897	9	25			9409056			R	9409058
6778898			R	6759434	9409056	7	9		
6778898	9	26			9409058			RB	9409056
6779227	12-1	3			9409058	7	1		
6779253	5	35			9409058	7	9		
6779254	5	35			9409954			R	444682
6779255	5	35			9409954	9	4		
6779770			R	6774871	9409954	9	39		
6779770	9	1			9413394			RB	9425313
6830003			R	6769636	9413424	13-1	20		
6830003	2	15			9425313			R	9413394
6830459			R	6752624	9425313	13-1	21		
6830459	5	22							
6830460			R	6750530					
6830460	5	22							
6832907			R	6768267					
6832907			RB	6838494					
6833213			R	2222670					
6833213	13-1	2							
6835508			R	6769147					
6835508	4	1							
6835509			R	6769148					

R - REPLACES RB - REPLACED BY

1 - Converter flywheel
2 - First stator
3 - Second stator
4 - Converter pump
5 - Output shaft
6 - Flange
7 - Ground sleeve
8 - Integral charging oil pump
9 - Flex disks
10 - Converter turbine
11 - Plate assy hub
12 - Driving clutch disk
13 - Clutch drive gear
14 - Adapter
15 - Lube tubes
16 - Clutch shifter fork
17 - Shift sleeve
18 - Toggle assy
19 - Lock-up clutch piston
20 - Lock-up clutch friction plate
21 - Lock-up clutch reaction plate
22 - Hydraulic input disconnect clutch piston
23 - Flywheel ring gear
24 - Hydraulic input disconnect clutch reaction plate

TC800-900 TORQMATIC CONVERTER, MANUAL INPUT DISCONNECT CLUTCH, HYDRAULIC INPUT DISCONNECT CLUTCH AND HYDRAULIC INPUT LOCK-UP CLUTCH CROSS SECTION, LEGEND



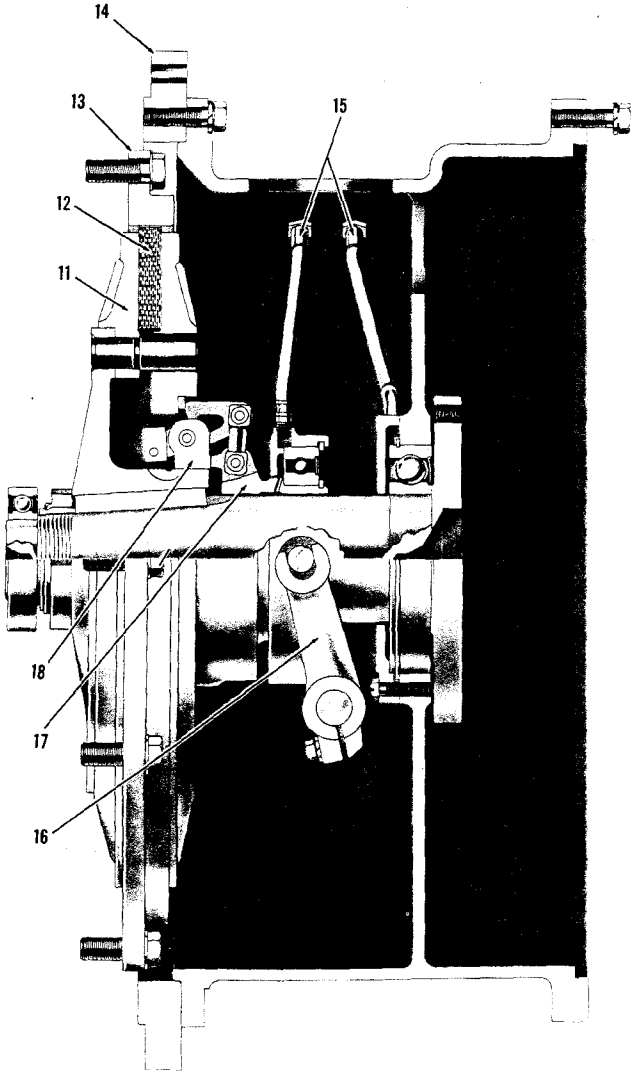


LUTCH,

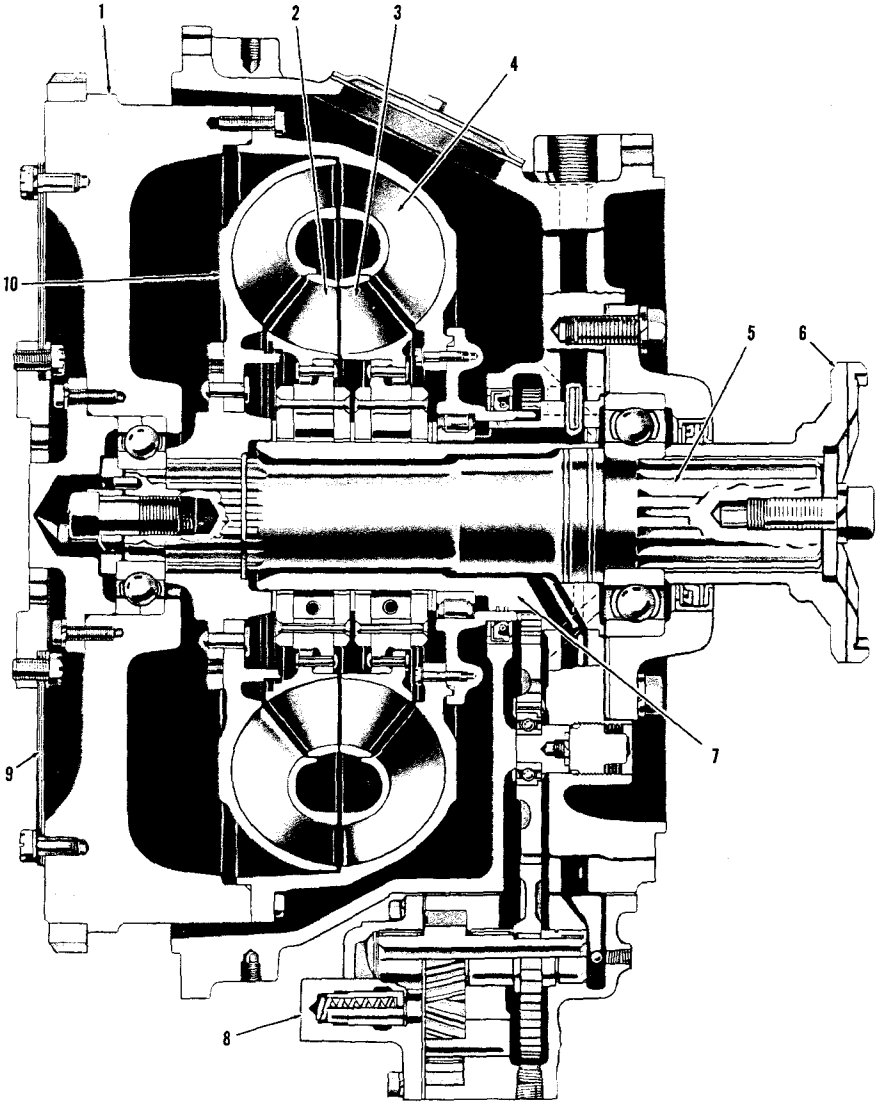
HYDRAULIC INPUT DISCONNECT CLUTCH

HYDRAULIC INPUT LOCK-UP CLUTCH

TC 800-900 CROSS SECTION



MANUAL INPUT DISCONNECT CLUTCH



TC800-900 TORQMATIC CONVERTER CROSS SECTION