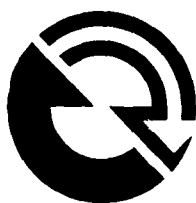


**Allison
Transmissions**

**TT, TRT, CT, CH
4000 Series
Parts Catalog**



**Detroit Diesel
Allison**

Parts Catalog

Allison Transmissions

POWERSHIFT MODELS

TT, CT, CRT 4420-1
TRT 4420-1, 4620-1, 4621-1
TT 4720-1, TRT 4820-1
TT 4721-1, TRT 4821-1

13 MARCH 1981



Detroit Diesel Allison

Division of General Motors Corporation

Indianapolis, Indiana 46206

NOTE:

This printed parts catalog is published annually. Interim revisions are available only on Microfiche. Either may be purchased from authorized Detroit Diesel Allison service outlets. See your yellow pages under Engines—Diesel or Transmissions—Truck, Tractor, etc.

MODELS COVERED

The Allison TT, TRT, CT and CRT 4000 series models covered in this catalog are listed on page 4-1 by A/N (Assembly Number) in numerical sequence.

YOU MUST KNOW TRANSMISSION PART NUMBER

To use this catalog you must know the Allison assembly number (A/N) found on the transmission name plate. The name plate is attached to the transmission housing.

SERVICE KITS

Are listed on page 8.

NUMERICAL INDEX

A numerical index is included in the rear of this catalog. This index is cross-referenced to indicate the history of TT, TRT, CT and CRT 4000 series parts. Parts both current and superseded appear in numerical order in the Part No. column. Current part numbers refer to the figure and reference numbers of the parts. Parts replacing older parts are followed by the older part number in the history column. Parts that have been replaced are followed by the part number of the replacing part. Footnote symbols show when a part is replaced by (RB), or when a part replaces (R) an older part.

CROSS SECTION

Cross sectional views of the transmissions and available options are shown on foldouts at the back of this catalog.

HOW TO ORDER PARTS

If an assembly or subassembly is ordered, all subassemblies and detail parts indented beneath it will be included.

If a detail part is ordered, only the detail part will be sent unless its part number is starred (*). A starred (*) part number means that such a part is not serviced alone. This is necessary because certain parts require factory installation or adjustment. If an order is received for a starred (*) part, the assembly or subassembly under which it is indented will be sent.

NOTE

All parts orders must be directed to your dealer —do not send them to Allison. Always include the model, the transmission assembly, and serial numbers when ordering parts. Be sure to include part name and part number.

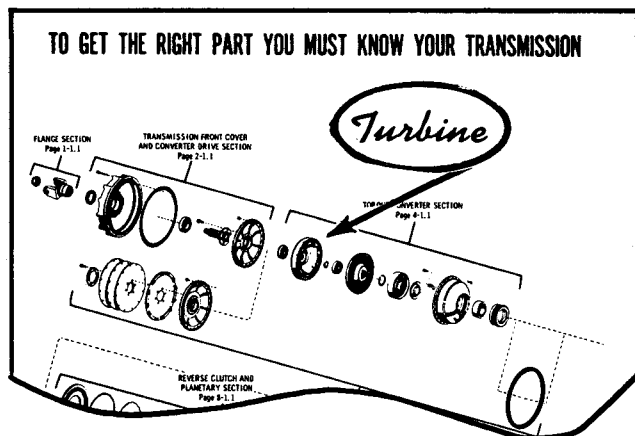
See instructions for using catalog on opposite page.

HOW TO USE THIS CATALOG

Example: To find the part number of a torque converter turbine, follow the procedure outlined below:

 Allison Transmission Manufactured By Detroit Diesel Allison Division of General Motors Corporation Indianapolis, Indiana	
SERIAL NO.	PART NO.
819	6831146
MODEL NO. TT 4420-1	

Obtain the transmission assembly number (Part number) and serial number shown on the name plate as illustrated. It reads 6831146.

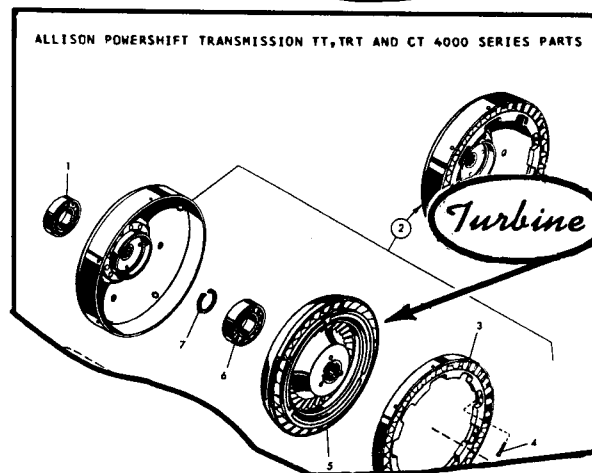


Turn to the pictorial index of exploded parts. The turbine is shown in the Torque Converter Section which is referenced to page 4-1.1.

ALLISON POWERSHIFT TRANSMISSION TT, TRT AND CT 4000 SERIES PARTS CATALOG 4-1.1					
TORQUE CONVERTER SECTION					
TO FIND DETAIL PARTS FOR YOUR ALLISON HYDRO POWERSHIFT TRANSMISSION TURN TO THE GROUP LISTED OPPOSITE THE ASSEMBLY PART NUMBER OF YOUR TRANSMISSION.					
A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
6830749	TRT 4421-1	B	6830828	TT 4420-1	A
6830750	TRT 4421-1	D	6835991	TT 4420-1	B
6831146	TT 4420-1	A	6836187	TRT 4421-1	D
6831386	TT 4420-1	A	6836629	TRT 4421-1	C
6831397	TRT 4421-1	D	6836716	TRT 4421-1	D

Beginning on page 4-1.1, listed in numerical sequence, are the transmission assembly numbers (A/N) of the various models. Under the A/N column you will find the A/N 6831146. Opposite this number (6831146) under the group listing column to the right, you will find the group letter A.

ALLISON POWERSHIFT TRANSMISSION TT, TRT AND CT 4000 SERIES PARTS CATALOG 4-1.1						
GROUP A						
TORQUE CONVERTER, FIGURE 4						
REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	BEARING, SINGLE ROW BALL, HD7510LR1214A	907835	1	1	2	3
2	TURBINE ASSY, FIRST	6832905	1	1	1	2
3	TURBINE, FIRST	6777566	1	1	1	2
4	PIN	6778508	9	9	18	27
5	TURBINE, SECOND	6832871	1	1	1	1
6	BEARING, SINGLE ROW BALL, HD813LR1214A	907696	1	1	2	3
7	RING, SNAP	6830048	1	1	2	3
8	RING, SNAP	6754835	1	1	2	3
9	STATOR, TORQUE CONVERTER, TT4000 SERIES, 4.65 TO 1	6778640	1	1	1	1
STALL TORQUE RATIO						

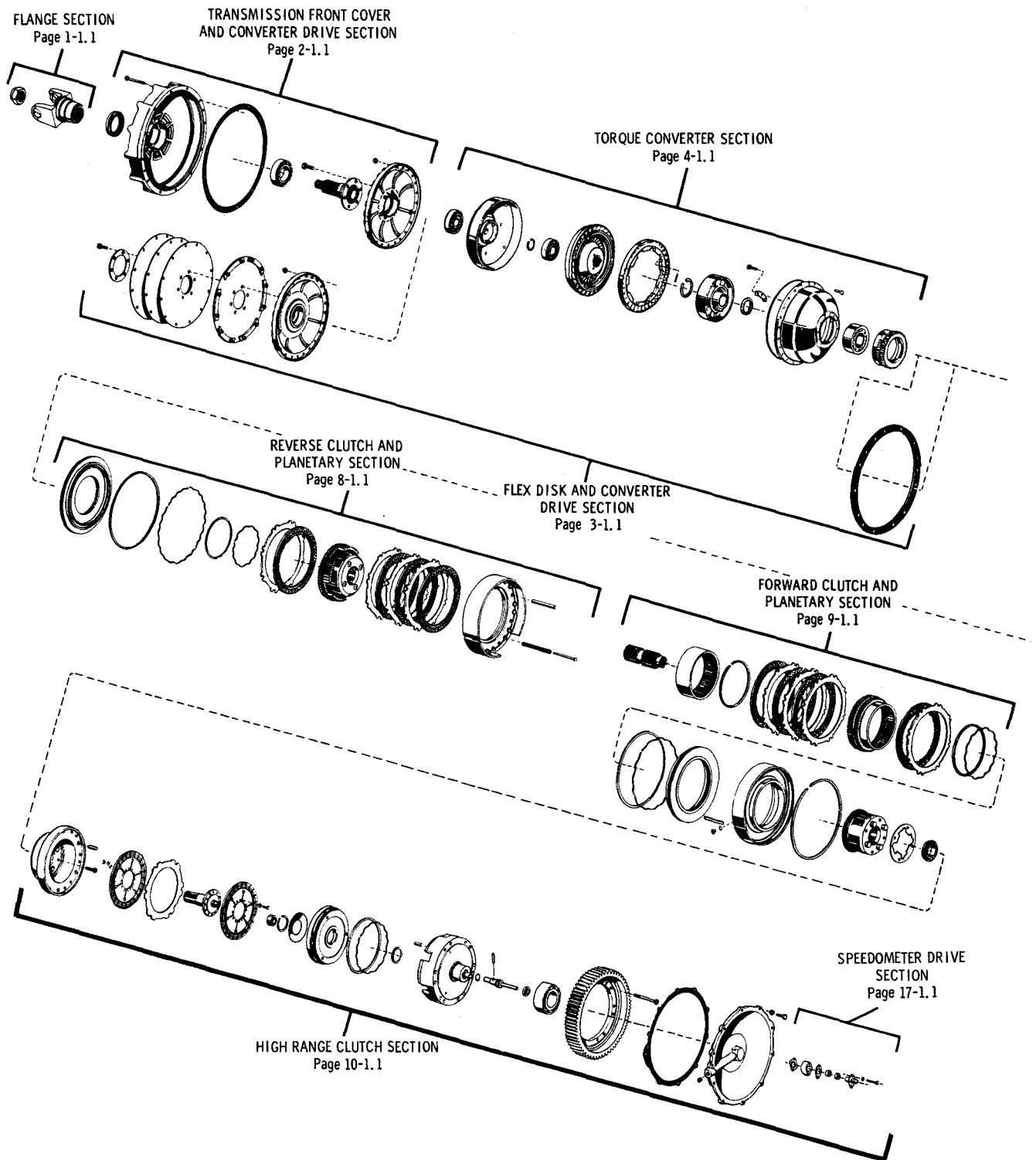


Turning to Group A, the turbine is referenced as 5 in the group illustration; the part number is listed as 6832871. Opposite the part number, on the right side of the page, is a quantity recommended for spare parts, based on the quantity of units (transmissions) indicated in the heading (1-3, 4-10, 11-25).

NOTE

Use the basic procedure explained above to locate any part number required. Refer also to the opposite page for additional parts ordering information.

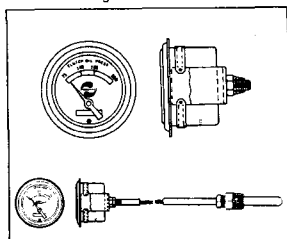
TO GET THE RIGHT PART YOU MUST KNOW YOUR TRANSMISSION



TT, CT 4000 SERIES POWERSHIFT

ASSEMBLY NUMBER FOUND ON THE TRANSMISSION NAME PLATE

MISCELLANEOUS OPTIONS SECTION Page 19-1.1



TORQUE CONVERTER HOUSING SECTION Page 5-1.1

TRANSMISSION HOUSING SECTION Page 7-1.1

POWER TAKEOFF SECTION Page 15-1.1

CHARGING OIL PUMP SECTION Page 13-1.1

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT SECTION Page 6-1.1

CONTROL VALVE BODY SECTION Page 14-1.1

FLANGE SECTION Page 1-1.1

PARKING BRAKE SECTION Page 16-1.1

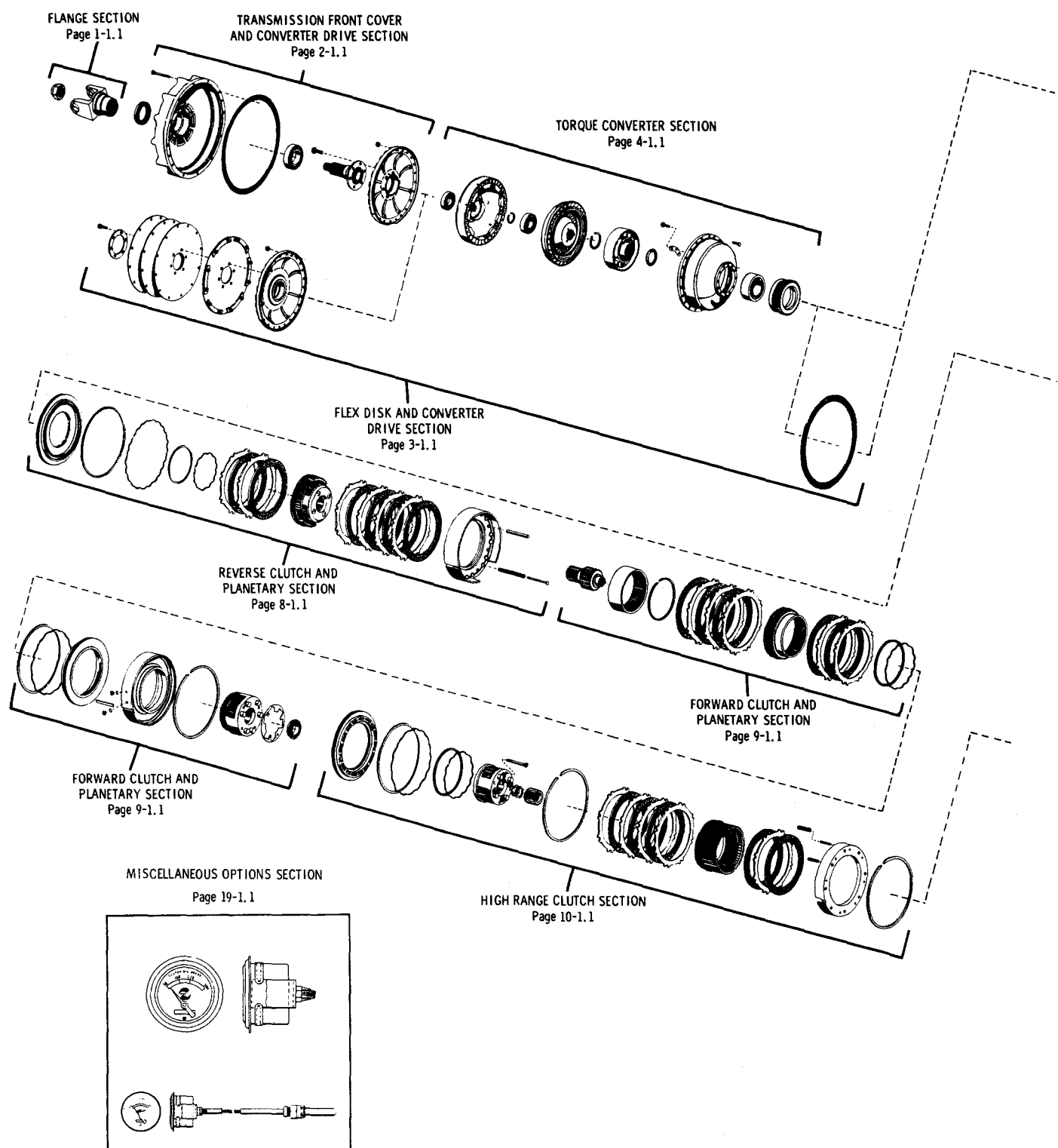
FRONT OUTPUT DISCONNECT CLUTCH AND REAR OUTPUT SHAFT SECTION Page 12-1.1

FLANGE SECTION Page 1-1.1

To Get the Right Part
You Must Know Your
Transmission Assembly
Number Found on the
Transmission Name Plate

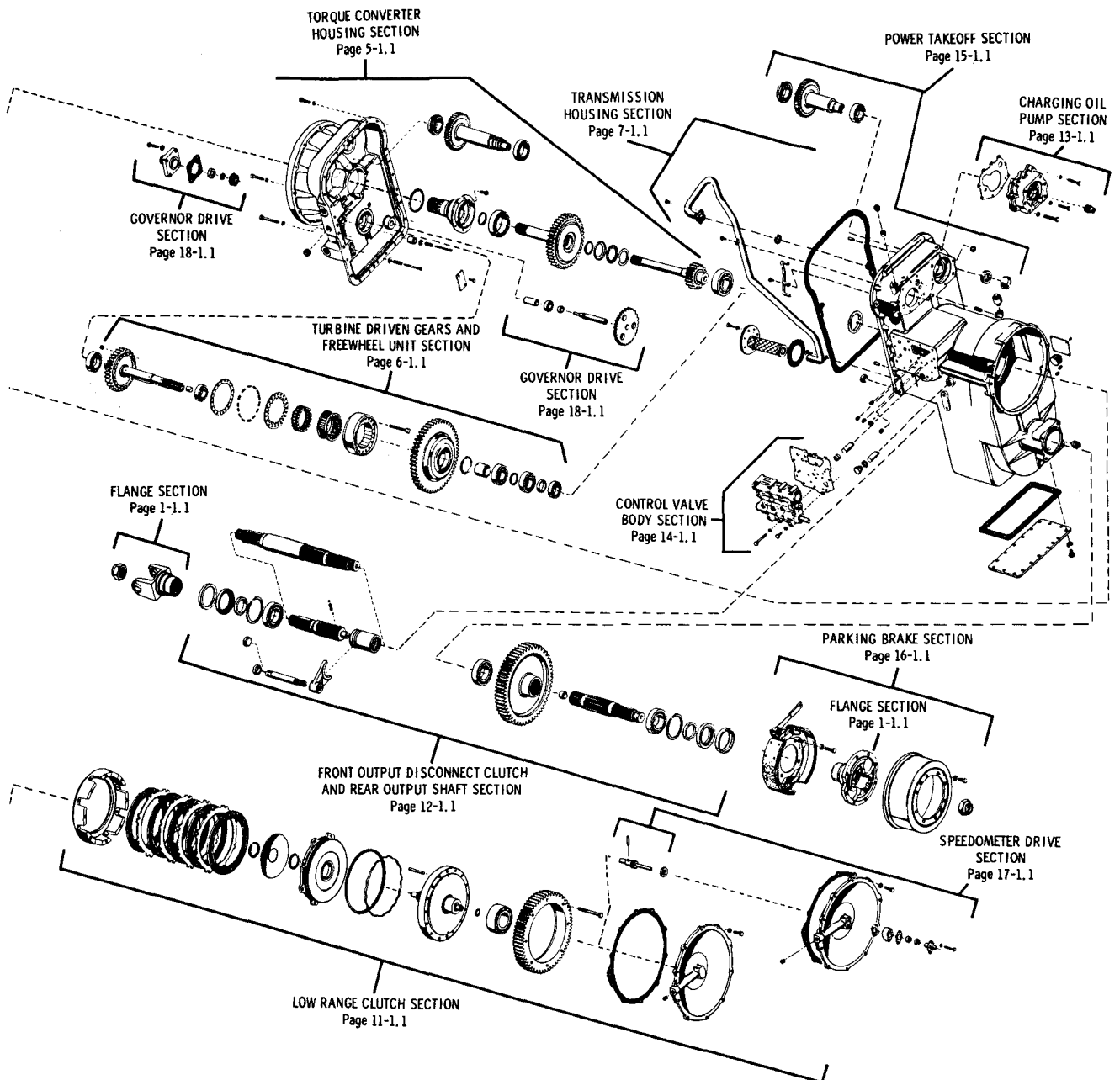
TRANSMISSION PICTORIAL INDEX

TO GET THE RIGHT PART YOU MUST KNOW YOUR TRANSMISSION



TRT 4000 SERIES POWERSHIFT

ASSEMBLY NUMBER FOUND ON THE TRANSMISSION NAME PLATE



To Get the Right Part
You Must Know Your
Transmission Assembly
Number Found on the
Transmission Name Plate

TRANSMISSION PICTORIAL INDEX

MODEL DESIGNATION CODE
(Stamped on the Transmission Name Plate)

The letters "TT", "TRT", CT, or CRT indicate the type of transmission and its major components.

The digits 4420-1 indicate the Series 4000 POWERSHIFT transmission, the converter series, the transmission basic speed ranges and either standard or heavy-duty components. The dash number indicates long center distance. (Centerline of input shaft to centerline of output shaft). The example below illustrates the meaning of the letters and numbers.

"TT" describes an integral transmission unit composed of a hydraulic twin-turbine torque converter, and a planetary gear transmission, two speeds forward and one speed reverse. "TRT" is similar to a "TT" except it has equal speeds forward and reverse. "CT" is similar to a "TT" except it has a single-turbine torque converter. "CRT" is similar to a "CT" except it has equal speeds forward and reverse. The first digit (4) indicates Series 4000 POWERSHIFT transmission. The second digit (4) indicates the converter series. The third digit (2) indicates the transmission basic speed ranges. The fourth digit (0) indicates standard duty components. The dash number (-1) indicates long center distance.

Code Explanation

- TT - indicates twin turbine torque converter with a planetary gear transmission, two speeds forward and one speed reverse
- TRT - indicates twin turbine torque converter with a planetary gear transmission, equal speeds forward and equal speeds reverse
- CT - indicates single turbine torque converter with a planetary gear transmission, two speeds forward and one speed reverse
- CRT - indicates single turbine torque converter with a planetary gear transmission, equal speeds forward and equal speeds reverse
- 4 - indicates Series 4000 POWERSHIFT transmission
- 4 - indicates converter series
- 2 - indicates transmission basic speed ranges
- 0 - indicates standard duty components
- 1 - indicates heavy-duty components
- 1 - indicates long center distance (long drop)

QUICK REFERENCE LISTING
FOR YOUR POWERSHIFT DRIVE

Fill In Now

ALLISON POWERSHIFT TRANSMISSION

1. Model No. _____ Assy Part No. _____
Serial No. _____ Installation _____

ALLISON POWERSHIFT TRANSMISSION

2. Model No. _____ Assy Part No. _____
Serial No. _____ Installation _____

ALLISON POWERSHIFT TRANSMISSION

3. Model No. _____ Assy Part No. _____
Serial No. _____ Installation _____

ALLISON POWERSHIFT TRANSMISSION

4. Model No. _____ Assy Part No. _____
Serial No. _____ Installation _____

ALLISON POWERSHIFT TRANSMISSION

5. Model No. _____ Assy Part No. _____
Serial No. _____ Installation _____

ALLISON POWERSHIFT TRANSMISSION

6. Model No. _____ Assy Part No. _____
Serial No. _____ Installation _____

ALLISON POWERSHIFT TRANSMISSION

7. Model No. _____ Assy Part No. _____
Serial No. _____ Installation _____

ALLISON POWERSHIFT TRANSMISSION

8. Model No. _____ Assy Part No. _____
Serial No. _____ Installation _____

ALLISON POWERSHIFT TRANSMISSION

9. Model No. _____ Assy Part No. _____
Serial No. _____ Installation _____

Service Kits —

LISTED BELOW ARE THE SERVICE KITS
AVAILABLE FOR THE 4000 SERIES POWERSHIFT TRANSMISSION

RECOMMENDED
SPARES FOR UNITS
1-3 4-10 11-25

BASIC OVERHAUL KIT—6880398
(Engine and Remote Mounted)

-1 -3 -10

Contains all seals and gaskets necessary for complete overhaul of
TT 4000, TT 4600 and TT 4700 Series transmissions.

BASIC OVERHAUL KIT—6880399
(Engine Mounted &
Remote Mounted)

-1 -3 -10

Contains all seals and gaskets necessary for complete overhaul of
TRT 4400, TRT 4600 and TRT 4800 Series transmissions.

PARKING BRAKE LINING KIT—P/N 2367136
for 12 x 3 Parking Brake

-1 -2 -5

Contains lining for 2 brake shoes and 24 rivets.

FORWARD AND REVERSE PISTON CHECK BALL KIT — 6884500

-1 -3 -10

Contains: 2 — 6837571 — ball, forward and reverse
2 — 6837572 — Retainer, forward and reverse
1 — 6884499 — Instruction Sheet No. 110

Designed especially for you . . .



Allison Transmissions

ENGINEERED SERVICE KITS

You won't be guessing in your selecting

FLANGE 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	LOCATION	A/N*	MODEL	GROUP	LOCATION
6778502	TT4420-1	A	C	6831834	TRT 4420-1	C	A
6778502	TT4420-1	B	D	6831834	TRT 4420-1	D	C
6778503	TT4420-1	A	C	6831834	TRT 4420-1	E	D
6778503	TT4420-1	B	D	6831887	TRT 4420-1	C	A
6778504	TRT4420-1	A	C	6831887	TRT 4420-1	D	C
6778504	TRT4420-1	B	D	6831887	TRT 4420-1	D	D
6778505	TT4420-1	C	A	6832150	TRT 4621-1	F	C
6778505	TT4420-1	D	C	6832150	TRT 4621-1	J	D
6778505	TT4420-1	E	D	6832151	TRT 4420-1	K	A
6778506	TRT4621-1	L	A	6832151	TRT 4420-1	D	C
6778506	TRT4621-1	F	C	6832151	TRT 4420-1	E	D
6778506	TRT4621-1	F	D	6832448	TT 4420-1	C	A
6778850	TRT4420-1	C	A	6832448	TT 4420-1	D	C
6778850	TRT4420-1	D	C	6832448	TT 4420-1	E	D
6778850	TRT4420-1	E	D	6832449	TRT 4420-1	H	C
6778851	TRT4420-1	C	A	6832449	TRT 4420-1	H	D
6778851	TRT4420-1	D	C	6832600	TRT 4621-1	D	C
6778851	TRT4420-1	E	D	6832600	TRT 4621-1	G	D
6779472	TRT4420-1	C	A	6832690	TRT 4621-1	F	C
6779472	TRT4420-1	D	C	6832690	TRT 4621-1	F	D
6779472	TRT4420-1	E	D	6833334	TT 4420-1	D	C
6779473	TRT4420-1	C	A	6833334	TT 4420-1	E	D
6779473	TRT4420-1	F	C	6833387	TRT 4620-1	F	C
6779473	TRT4420-1	J	D	6833387	TRT 4620-1	J	D
6779787	TRT4621-1	L	A	6834832	TT 4420-1	H	C
6779787	TRT4621-1	F	C	6834832	TT 4420-1	H	D
6779787	TRT4621-1	F	D	6834954	TRT 4420-1	D	C
6779787	TRT4420-1	G	C	6834954	TRT 4420-1	E	D
6779787	TRT4420-1	H	D	6835026	TT 4420-1	C	A
6830564	TRT4621-1	G	C	6835026	TT 4420-1	D	C
6830564	TRT4621-1	J	D	6835026	TT 4420-1	D	D
6830580	TRT4621-1	F	C	6835208	TRT 4420-1	C	A
6830580	TRT4420-1	F	D	6835208	TRT 4420-1	F	C
6830653	TRT4621-1	G	C	6835208	TRT 4420-1	J	D
6830653	TRT4621-1	J	D	6835617	TRT 4420-1	D	C
6830694	TT4420-1	C	A	6835617	TRT 4420-1	E	D
6830694	TT4420-1	D	C	6835686	TRT 4420-1	A	C
6830694	TT4420-1	D	D	6835686	TRT 4420-1	B	D
6830749	TRT4621-1	A	C	6835828	TT 4420-1	C	A
6830749	TRT4621-1	B	D	6835828	TT 4420-1	D	C
6830750	TRT4621-1	D	C	6835828	TT 4420-1	D	D
6830750	TRT4621-1	E	D	6835991	TT 4420-1	C	A
6831146	TT4420-1	D	C	6835991	TT 4420-1	D	C
6831146	TT4420-1	E	D	6835991	TT 4420-1	D	D
6831397	TRT4621-1	G	C	6836187	TRT 4621-1	D	C
6831397	TRT4621-1	J	D	6836187	TRT 4621-1	D	D
6831802	TRT 4420-1	D	C	6836629	TRT 4621-1	L	A
6831802	TRT 4420-1	E	D	6836629	TRT 4621-1	F	C
6831832	TRT 4620-1	F	C	6836629	TRT 4621-1	J	D
6831832	TRT 4620-1	J	D	6836716	TRT 4621-1	H	C

CONTINUED ON NEXT PAGE

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

FLANGE 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	LOCATION	A/N*	MODEL	GROUP	LOCATION
6836716	TRT 4621-1	H	D	6839827	TRT 4820-1	L	A
6836795	TRT 4621-1	F	C	6839827	TRT 4820-1	T	C
6836795	TRT 4621-1	F	D	6839827	TRT 4820-1	T	D
6836975	TRT 4621-1	D	C	6839828	TT 4720-1	C	A
6836975	TRT 4621-1	E	D	6839828	TT 4720-1	Q	C
6836987	TT 4420-1	F	C	6839828	TT 4720-1	Q	D
6836987	TT 4420-1	F	D	6839934	TRT 4820-1	V	C
6837148	TRT 4621-1	G	C	6839934	TRT 4820-1	W	D
6837148	TRT 4621-1	F	D	6880119	CRT 4420-1	D	C
6837245	TRT 4621-1	M	C	6880119	CRT 4420-1	D	D
6837680	TRT 4620-1	C	A	6880580	TT 4720-1	C	A
6837680	TRT 4620-1	F	C	6880580	TT 4720-1	Q	C
6837680	TRT 4620-1	J	D	6880580	TT 4720-1	R	D
6837861	TRT 4420-1	A	C	6880637	TRT 4820-1	Q	C
6837861	TRT 4420-1	B	D	6880637	TRT 4820-1	Q	D
6838149	TT 4420-1	D	C	6880651	TRT 4820-1	K	A
6838149	TT 4420-1	E	D	6880651	TRT 4820-1	Q	C
6838755	CT 4420-1	D	C	6880651	TRT 4820-1	U	D
6838755	CT 4420-1	D	D	6880821	TRT 4820-1	Q	C
6838932	TRT 4621-1	L	A	6880821	TRT 4820-1	R	D
6838932	TRT 4621-1	G	C	6880963	TRT 4820-1	C	A
6838932	TRT 4621-1	J	D	6880963	TRT 4820-1	T	C
6839015	TT 4420-1	D	C	6880963	TRT 4820-1	T	D
6839015	TT 4420-1	D	D	6881065	TRT 4820-1	Y	A
6839016	TRT 4420-1	D	C	6881065	TRT 4820-1	X	C
6839016	TRT 4420-1	D	D	6881065	TRT 4820-4	X	D
6839066	TRT 4420-1	F	D	6881422	TRT 4820-1	S	C
6839529	TT 4720-1	N	C	6881422	TRT 4820-1	T	D
6839529	TT 4720-1	P	D	6881432	TRT 4820-1	C	A
6839530	TT 4720-1	N	C	6881432	TRT 4820-1	S	C
6839530	TT 4720-1	P	D	6881432	TRT 4820-1	U	D
6839532	TT 4720-1	Q	C	6881444	TRT 4820-1	C	A
6839532	TT 4720-1	R	D	6881444	TRT 4820-1	Q	C
6839533	TT 4720-1	Q	C	6881444	TRT 4820-1	R	D
6839533	TT 4720-1	Q	D	6881811	TRT 4820-1	K	A
6839535	TRT 4820-1	Q	C	6881811	TRT 4820-1	Q	C
6839535	TRT 4820-1	S	D	6881811	TRT 4820-1	U	D
6839536	TRT 4820-1	T	C	6882364	TRT 4820-1	K	A
6839536	TRT 4820-1	U	D	6882364	TRT 4820-1	S	C
6839537	TRT 4820-1	S	C	6882364	TRT 4820-1	U	D
6839537	TRT 4820-1	T	D	6882740	TT 4820-1	C	A
6839538	TRT 4820-1	C	A	6882740	TT 4820-1	T	C
6839538	TRT 4820-1	T	C	6882740	TT 4820-1	T	D
6839538	TRT 4820-1	U	D	6883301	TT 4720-1	N	C
6839606	TRT 4621-1	L	A	6883301	TT 4720-1	P	D
6839606	TRT 4621-1	F	C	6883512	TT 4820-1	X	C
6839606	TRT 4621-1	J	D	6883512	TT 4820-1	X	D
6839751	TRT 4620-1	C	A	6883569	TT 4720-1	N	C
6839751	TRT 4620-1	F	C	6883569	TT 4720-1	P	D
6839751	TRT 4620-1	F	D	6883590	TRT 4820-1	N	C

CONTINUED ON NEXT PAGE

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

FLANGE 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	LOCATION	A/N*	MODEL	GROUP	LOCATION
6883590	TRT 4820-1	P	D	23011484	TRT 4821-1	S	C
6883992	TRT 4820-1	L	A	23011484	TRT 4821-1	U	D
6883992	TRT 4820-1	T	C	23011485	TRT 4821-1	L	A
6883992	TRT 4820-1	T	D	23011485	TRT 4821-1	T	C
6884285	TRT 4820-1	X	B	23011485	TRT 4821-1	T	D
6884285	TRT 4820-1	U	D	23011486	TRT 4821-1	U	D
6885375	TRT 4820-1	L	A	23011487	TRT 4821-1	S	C
6885375	TRT 4820-1	Q	C	23011487	TRT 4821-1	S	D
6885375	TRT 4820-1	U	D	23011488	TRT 4821-1	Q	C
6885405	TRT 4820-1	T	C	23011488	TRT 4821-1	U	D
6885405	TRT 4820-1	R	D	23011489	TT 4721-1	N	C
6885527	TT 4720-1	N	C	23011489	TT 4721-1	P	D
6885527	TT 4720-1	P	D	23011490	TT 4721-1	N	C
6885541	TRT 4820-1	S	C	23011490	TT 4721-1	P	D
6885541	TRT 4820-1	S	D	23011491	TT 4721-1	Z	C
23010838	TT 4720-1	T	C	23011491	TT 4721-1	Z	D
23010838	TT 4720-1	U	D	23011492	TT 4721-1	Q	C
23010839	TT 4720-1	T	C	23011492	TT 4721-1	Q	D
23010839	TT 4720-1	U	D	23011493	TT 4721-1	N	C
23010840	TRT 4820-1	Q	C	23011493	TT 4721-1	P	D
23010840	TRT 4820-1	U	D	23011494	TRT 4821-1	Q	C
23011460	TRT 4820-1	N	C	23011494	TRT 4821-1	R	D
23011460	TRT 4820-1	P	D	23011534	TRT 4820-1	N	C
23011461	TRT 4820-1	Q	C	23011534	TRT 4820-1	P	D
23011461	TRT 4820-1	R	D	23012060	TRT 4821-1	N	C
23011477	TRT 4821-1	Q	C	23012060	TRT 4821-1	P	D
23011477	TRT 4821-1	S	D	23012247	TRT 4820-1	U	C
23011478	TRT 4821-1	T	C	23012247	TRT 4820-1	S	D
23011478	TRT 4821-1	U	D	23012398	TRT 4821-1	Z	C
23011479	TRT 4821-1	L	A	23012398	TRT 4821-1	Z	D
23011479	TRT 4821-1	T	C	23012399	TT 4721-1	T	C
23011479	TRT 4821-1	T	D	23012399	TT 4721-1	U	D
23011480	TRT 4821-1	V	C	23012400	TRT 4821-1	S	C
23011480	TRT 4821-1	W	D	23012400	TRT 4821-1	U	D
23011481	TRT 4821-1	C	A	23012401	TRT 4821-1	N	C
23011481	TRT 4821-1	T	C	23012401	TRT 4821-1	P	D
23011481	TRT 4821-1	T	D	23012481	TRT 4820-1	Z	A
23011482	TRT 4821-1	AA	A	23012481	TRT 4820-1	X	C
23011482	TRT 4821-1	Z	C	23012481	TRT 4820-1	X	D
23011482	TRT 4821-1	Z	D	23012683	TRT 4821-1	V	C
23011483	TRT 4821-1	C	A	23012683	TRT 4821-1	W	D
23011483	TRT 4821-1	Q	C	23012781	TRT 4821-1	AA	A
23011483	TRT 4821-1	K	D	23012781	TRT 4821-1	Z	C
23011484	TRT 4821-1	K	A	23012781	TRT 4821-1	Z	D

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

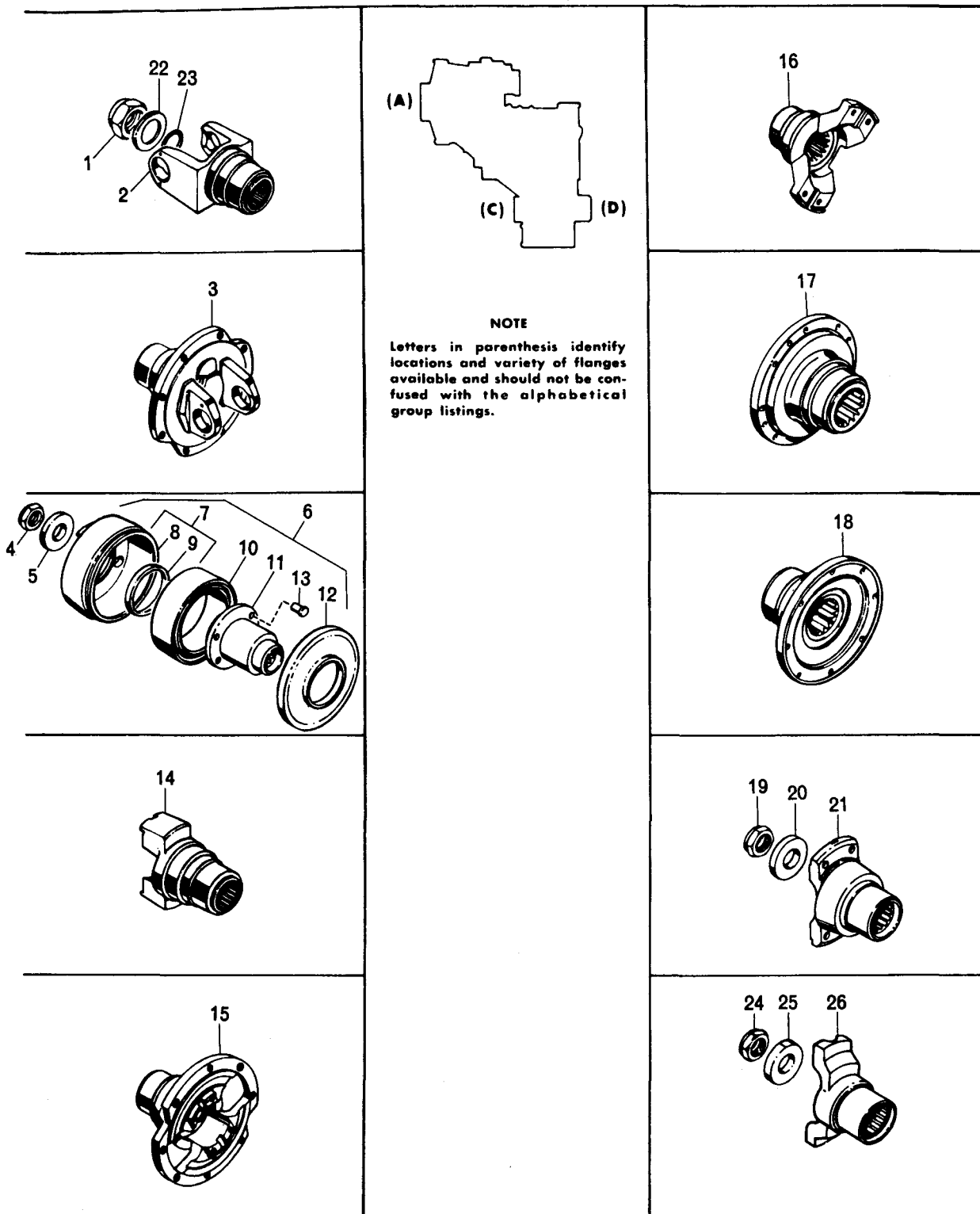


FIG. 1. FLANGE

GROUP A

FLANGE, FIGURE 1

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	NUT, FLANGE, RETAINING	6771144	1	1	2	3
2	FLANGE, YOKE TYPE 7N	6778949	1		1	2
3-25	NOT USED IN THIS GROUP					

GROUP B

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

2	NOT USED IN THIS GROUP					
3	FLANGE, YOKE TYPE 7N	6778950	1		1	2

GROUP C

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

1-2	NOT USED IN THIS GROUP					
4	NUT, HEX JAM, FLANGE RETAINING	9416389	1	1	2	3
5	RETAINER, FLANGE	6771612	1	1	2	3
6	FLANGE ASSY, TORQMATIC COUPLING MECH 7C SEE SPI	6882139	1		1	2
	27 TR 75					
7	FLANGE AND BUSHING ASSY, MECH 7C	6882143	* 1			
8	FLANGE, MECH 7C	6882141	* 1			
9	BUSHING	6830154	* 1			
10	COUPLING	6779690	* 1			
11	HUB	6882142	* 1			
12	RETAINER	6880037	* 1			
13	PIN, DOWEL	6882144	* 4			

GROUP D

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

2	NOT USED IN THIS GROUP					
14	FLANGE, MECH 7C	6778274	1		1	2

GROUP E

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

2	NOT USED IN THIS GROUP					
15	FLANGE, MECH 7C	6778273	1		1	2

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP F

FLANGE, FIGURE 1

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	NOT USED IN THIS GROUP					
16	FLANGE, MECH 8C	6771573	1		1	2

GROUP G

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

2	NOT USED IN THIS GROUP					
17	FLANGE, S 1800	6771538	1		1	2

GROUP H

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

2	NOT USED IN THIS GROUP					
18	FLANGE, S 1700	6771535	1		1	2

GROUP J

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

2	NOT USED IN THIS GROUP					
15	FLANGE, MECH 8C	6771255	1		1	2

GROUP K

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1-2	NOT USED IN THIS GROUP					
19	NUT, HEX, JAM, FLANGE RETAINING	9416389	1	1	2	3
20	RETAINER, FLANGE	6771612	1	1	2	3
21	FLANGE, MECH 7C	6771976	1		1	2

GROUP L

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

1-2	NOT USED IN THIS GROUP					
4	NUT, HEX JAM, FLANGE RETAINING	9416389	1	1	2	3
5	RETAINER, FLANGE	6771612	1	1	2	3
6	FLANGE ASSY, TORQMATIC COUPLING, MECH 7C SEE SPI 27 TR 75	6882140	1		1	2
7	FLANGE AND BUSHING ASSY, MECH 7C	6882143 *	1			

CONTINUED ON NEXT PAGE

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP L CONT

FLANGE, FIGURE 1

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
8	FLANGE, MECH 7C	6882141	* 1			
9	BUSHING	6830154	* 1			
10	COUPLING	6836492	* 1			
11	HUB	6882142	* 1			
12	RETAINER	6880037	* 1			
13	PIN, DOWEL	6882144	* 4			

GROUP M

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

2	NOT USED IN THIS GROUP					
16	FLANGE, MECH 9C	6777400	1		1	2

GROUP N

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2	FLANGE, YOKE TYPE 7N	6838780	1		1	2
22	WASHER, FLANGE RETAINER	6838714	1	1	2	3
23	RING, SEAL	6838715	1	1	2	3

GROUP P

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2	NOT USED IN THIS GROUP					
3	FLANGE, YOKE TYPE 7N	6838781	1		1	2
22	WASHER, FLANGE RETAINER	6838714	1	1	2	3
23	RING, SEAL	6838715	1	1	2	3

GROUP Q

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2	NOT USED IN THIS GROUP					
14	FLANGE, MECH 7C	6839408	1		1	2
22	WASHER, FLANGE RETAINER	6838714	1	1	2	3
23	RING, SEAL	6838715	1	1	2	3

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP R

FLANGE, FIGURE 1

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	NOT USED IN THIS GROUP					
16	FLANGE, MECH 7C	6839407	1		1	2
22	WASHER, FLANGE RETAINER	6838714	1	1	2	3
23	RING, SEAL	6838715	1	1	2	3

GROUP S

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2	NOT USED IN THIS GROUP					
17	FLANGE, S1800	6839406	1		1	2
22	WASHER, FLANGE RETAINER	6838714	1	1	2	3
23	RING, SEAL	6838715	1	1	2	3

GROUP T

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2	NOT USED IN THIS GROUP					
16	FLANGE, MECH 8C	6838787	1		1	2
22	WASHER, FLANGE RETAINER	6838714	1	1	2	3
23	RING, SEAL	6838715	1	1	2	3

GROUP U

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2	NOT USED IN THIS GROUP					
15	FLANGE, MECH 8C	6839405	1		1	2
22	WASHER, FLANGE RETAINER	6838714	1	1	2	3
23	RING, SEAL	6838715	1	1	2	3

GROUP V

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2	NOT USED IN THIS GROUP					
16	FLANGE, MECH 9C	6839942	1		1	2
22	WASHER, FLANGE RETAINER	6838714	1	1	2	3
23	RING, SEAL	6838715	1	1	2	3

GROUP W

FLANGE, FIGURE 1

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	NOT USED IN THIS GROUP					
15	FLANGE, MECH 9C	6838716	1		1	2
22	WASHER, FLANGE RETAINER	6838714	1	1	2	3
23	RING, SEAL	6838715	1	1	2	3

GROUP X

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2 NOT USED IN THIS GROUP

GROUP Y

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1-23	NOT USED IN THIS GROUP					
24	NUT, HX JAM, FLANGE RETAINING	9416389	1	1	2	3
25	RETAINER, FLANGE	6771612	1	1	2	3
26	FLANGE, SPLICER, 1650	6770787	1		1	2

GROUP Z

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1	NUT, FLANGE RETAINING	6771144	1	1	2	3
2	NOT USED IN THIS GROUP					
22	WASHER, FLANGE RETAINER	6838714	1	1	2	3
23	RING, SEAL	6838715	1	1	2	5

GROUP AA

FLANGE, FIGURE 1

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

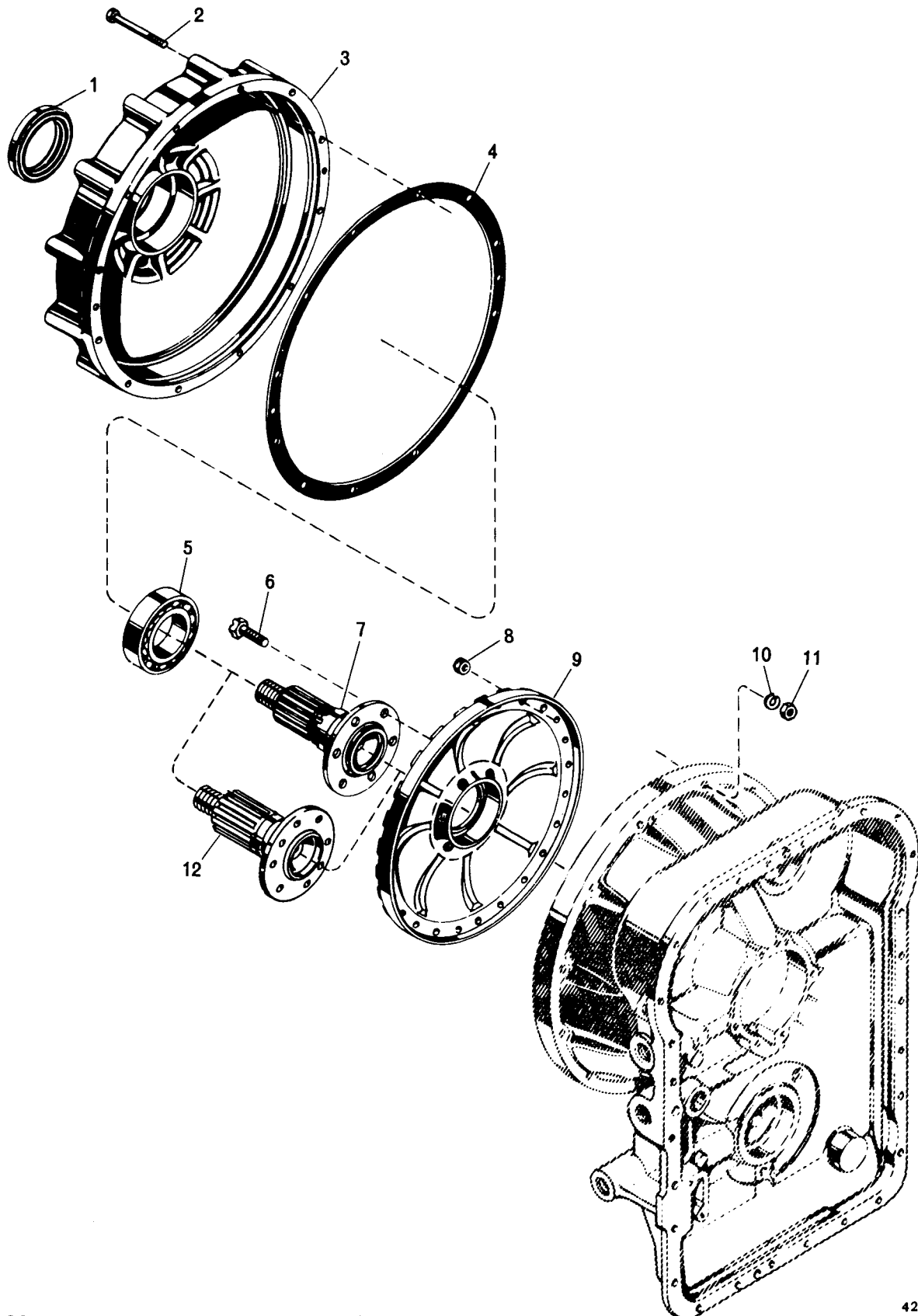
1-23	NOT USED IN THIS GROUP					
24	NUT, HEX JAM, FLANGE RETAINING	9416389	1	1	2	3
25	RETAINER, FLANGE	6771612	1	1	2	3

TRANSMISSION FRONT COVER AND CONVERTER 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
6778505	TT4420-1	A	6839827	TRT 4820-1	B
6778506	TRT4621-1	B	6839828	TT 4720-1	A
6778850	TRT4420-1	A	6880580	TT 4720-1	A
6778851	TRT4420-1	A	6880651	TRT 4820-1	D
6779472	TRT4420-1	A	6880963	TRT 4820-1	B
6779473	TRT4420-1	A	6881065	TRT 4820-1	C
6779787	TRT4621-1	B	6881432	TRT 4820-1	B
6830694	TT4420-1	A	6881444	TRT 4820-1	B
6831834	TRT 4420-1	A	6881811	TRT 4820-1	D
6831887	TRT 4420-1	A	6882364	TRT 4820-1	D
6832151	TRT 4420-1	C	6882740	TT 4820-1	B
6832448	TT 4420-1	A	6883992	TRT 4820-1	B
6835026	TT 4420-1	A	6885375	TRT 4820-1	B
6835208	TRT 4420-1	A	23011479	TRT 4821-1	B
6835828	TT 4420-1	A	23011481	TRT 4821-1	B
6835991	TT 4420-1	A	23011482	TRT 4821-1	E
6836629	TRT 4621-1	B	23011483	TRT 4821-1	B
6837680	TRT 4620-1	B	23011484	TRT 4821-1	D
6838932	TRT 4621-1	B	23011485	TRT 4821-1	B
6839538	TRT 4820-1	B	23012481	TRT 4820-1	C
6839606	TRT 4621-1	B	23012683	TRT 4821-1	B
6839751	TRT 4620-1	B	23012781	TRT 4821-1	E

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



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4262B

FIG. 2. TRANSMISSION FRONT COVER AND CONVERTER DRIVE

GROUP A

TRANSMISSION FRONT COVER AND CONVERTER DRIVE, FIGURE 2
REMOTE MOUNTED

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	SEAL, OIL, COMPOSED OF SEAL 6771231 AND INSTRUCTION SHEET. SEAL 6771231 AVAILABLE IN KIT 6772040 ONLY.	6772040	1	1	3	10
2	BOLT, HX HD, 3/8-24 X 3 3/4	186311	12	12	24	36
3	COVER, TRANSMISSION FRONT	6776109	1			1
4	GASKET, FRONT COVER	6776456	1	1	3	10
5	BEARING, SINGLE ROW BALL, ND3213LR1214A	907703	1	1	2	5
6	BOLT, HX HD, 1/2-13 X 1 1/8	9409127	6	6	12	18
7	SHAFT, INPUT	6778556	1		1	2
8	NUT, HX, 5/16-24	451006	24	24	72	240
9	COVER, TORQUE CONVERTER HOUSING	6778553	1		1	2
10	WASHER, LOCK. 3/8	103321	12	12	24	36
11	NUT, HX, 3/8-24	103026	12	12	24	36
12	NOT USED IN THIS GROUP					

GROUP B

TRANSMISSION FRONT COVER AND CONVERTER DRIVE, FIGURE 2
REMOTE MOUNTED

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

6	BOLT, HX HD, 1/2-13 X 1 1/8	9409127	8	8	16	24
7	NOT USED IN THIS GROUP					
9	COVER, TORQUE CONVERTER HOUSING	6776133	1		1	2
12	SHAFT, INPUT	6776442	1		1	2

GROUP C

TRANSMISSION FRONT COVER AND CONVERTER DRIVE, FIGURE 2
REMOTE MOUNTED

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

7	SHAFT, INPUT	6832095	1		1	2
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GROUP D

TRANSMISSION FRONT COVER AND CONVERTER DRIVE, FIGURE 2
REMOTE MOUNTED

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

6	BOLT, HX HD, 1/2-13 X 1 1/8	9409127	8	8	16	24
7	NOT USED IN THIS GROUP					
9	COVER, TORQUE CONVERTER	6776133	1		1	2
12	SHAFT, INPUT	677697	1		1	2

GROUP E

TRANSMISSION FRONT COVER AND CONVERTER DRIVE, FIGURE 2
REMOTE MOUNTED

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

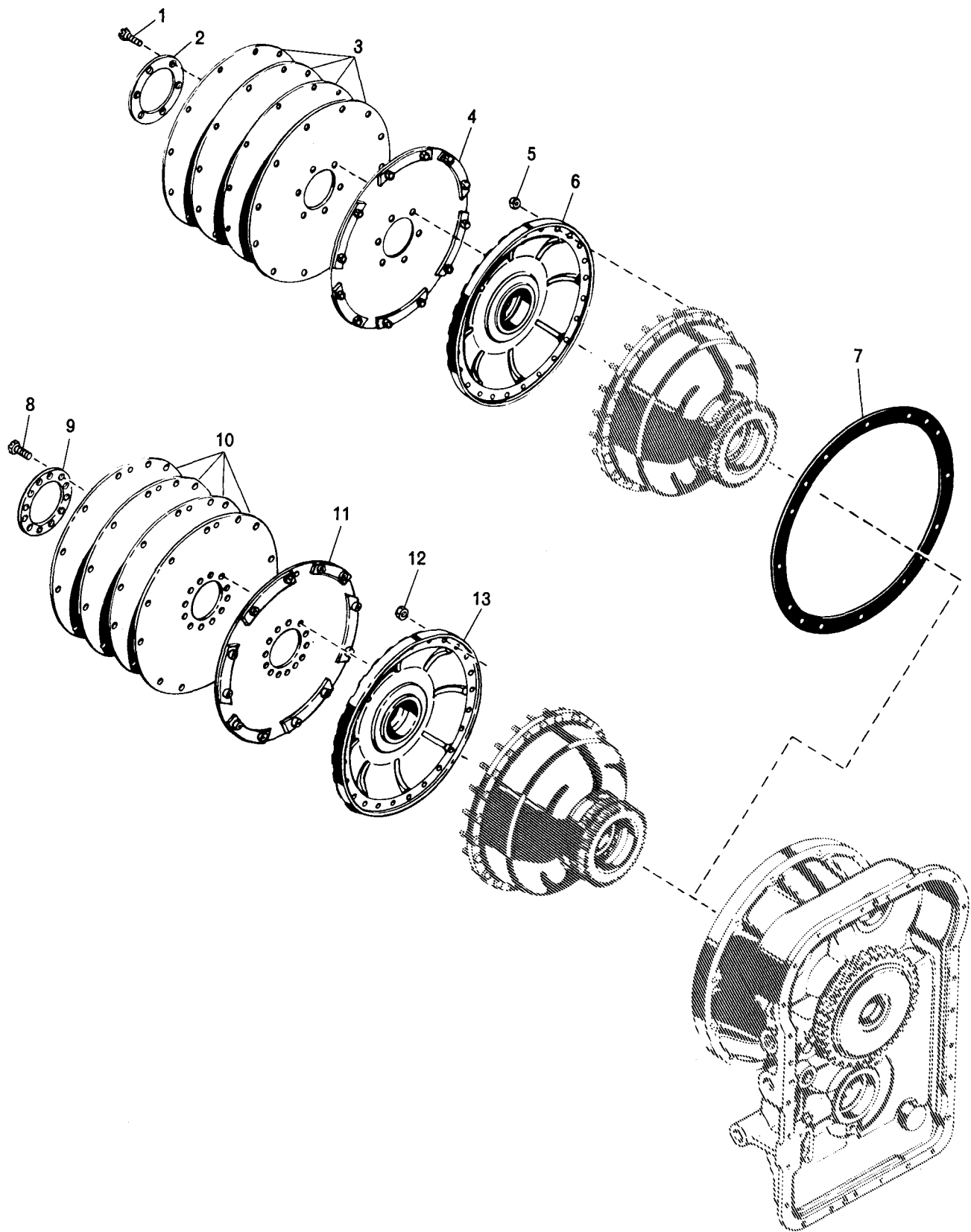
7	SHAFT, INPUT	6832095	1		1	2
9	COVER, TORQUE CONVERTER HOUSING	23011925	1		1	2

FLEX DISK AND CONVERTER 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
6778502	TT4420-1	A	6839533	TT 4720-1	A
6778503	TT4420-1	A	6839535	TRT 4820-1	B
6778504	TRT 4420-1	A	6839536	TRT 4820-1	B
6779877	TRT4420-1	A	6839537	TRT 4820-1	B
6830564	TRT4621-1	B	6839934	TRT 4820-1	C
6830580	TRT4420-1	A	6880119	CRT 4420-1	A
6830653	TRT4621-1	B	6880637	TRT 4820-1	A
6830749	TRT4621-1	C	6880821	TRT 4820-1	A
6830750	TRT4621-1	B	6881422	TRT 4820-1	B
6831146	TT4420-1	A	6883301	TT 4720-1	A
6831386	TT 4420-1	A	6883512	TRT 4820-1	A
6831397	TRT4621-1	B	6883569	TT 4720-1	A
6831802	TRT 4420-1	A	6883590	TRT 4820-1	A
6831832	TRT 4620-1	B	6884285	TRT 4820-1	B
6832150	TRT 4621-1	B	6885405	TRT 4820-1	B
6832449	TRT 4420-1	A	6885527	TT 4720-1	A
6832600	TRT 4621-1	B	6882541	TRT 4820-1	B
6832690	TRT 4621-1	C	23010838	TT 4720-1	A
6833334	TT 4420-1	A	23010839	TT 4720-1	A
6833387	TRT 4620-1	B	23010840	TRT 4820-1	B
6834142	TT 4420-1	A	23011460	TRT 4820-1	B
6834832	TT 4420-1	A	23011461	TRT 4820-1	B
6834954	TRT 4420-1	A	23011477	TRT 4821-1	B
6835617	TRT 4420-1	A	23011478	TRT 4821-1	B
6835686	TRT 4420-1	A	23011480	TRT 4821-1	C
6836187	TRT 4621-1	B	23011486	TRT 4821-1	B
6836795	TRT 4621-1	B	23011487	TRT 4821-1	B
6836975	TRT 4621-1	B	23011488	TRT 4821-1	B
6836987	TT 4420-1	A	23011489	TT 4721-1	D
6837148	TRT 4621-1	B	23011490	TT 4721-1	D
6837245	TRT 4621-1	C	23011491	TT 4721-1	D
6837861	TRT 4420-1	A	23011492	TT 4721-1	D
6838149	TT 4420-1	A	23011493	TT 4721-1	D
6838755	CT 4420-1	A	23011494	TRT 4821-1	B
6839015	TT 4420-1	A	23011534	TRT 4820-1	B
6839016	TRT 4420-1	A	23012060	TRT 4821-1	B
6839066	TRT 4420-1	A	23012247	TRT 4820-1	B
6839529	TT 4720-1	A	23012398	TRT 4821-1	D
6839530	TT 4720-1	A	23012399	TT 4721-1	D
6839531	TT 4720-1	A	23012400	TRT 4821-1	B
6839532	TT 4720-1	A	23012401	TRT 4821-1	B

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



4263D

FIG. 3. FLEX DISK AND CONVERTER DRIVE

GROUP A

FLEX DISK AND CONVERTER DRIVE, FIGURE 3
14 INCH

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	BOLT, HX HD, 1/2-13 X 1	9409258	6	6	12	18
2	PLATE, FLEX DISK	6777909	1	1	2	3
3	DISK, FLEXIBLE	6881587	3	3	6	9
4	DISK AND WASHER ASSY, FLEX	6881586	1	1	2	3
5	NUT, HX, 5/16-24	451006	24	24	72	240
6	COVER, TORQUE CONVERTER	6778221	1			1
7	GASKET, CONVERTER HOUSING	6776456	1	1	3	10
8-13	NOT USED IN THIS GROUP					

GROUP B

FLEX DISK AND CONVERTER DRIVE, FIGURE 3
14 INCH

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

3	DISK, FLEXIBLE	6881587	4	4	8	12
6	COVER, TORQUE CONVERTER	6830770	1			1

GROUP C

FLEX DISK AND CONVERTER DRIVE, FIGURE 3
16 INCH

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1-7	NOT USED IN THIS GROUP					
8	BOLT, HEX HD, 1/2-13 X 1 1/4, WHEN REPLACING . . . 9409086	12	12	24	36	
	9409258 BOLT WITH 9409086 BOLT ALSO ORDER 6880942 PLATE, 4-6880941 DISKS, 6880940 DISK AND WASHER ASSY AND 6880939 COVER					
9	PLATE, RETAINER, WHEN REPLACING 6777909 PLATE WITH 6880942 6880942 PLATE ALSO ORDER 6880940 DISK AND WASHER ASSY, 4-6880941 DISKS, 6880939 COVER AND 12-9409086 BOLTS	1	1	2	3	
10	DISK, FLEXIBLE, WHEN REPLACING 4-6830756 DISKS . . 6880941 WITH 4-6880941 DISKS ALSO ORDER 6880942 PLATE, 6880940 DISK AND WASHER ASSY, 6880939 COVER AND 12-9409086 BOLTS	4	4	8	12	
11	DISK AND WASHER ASSY, FLEX, WHEN REPLACING . . . 6880940 6830757 DISK AND WASHER ASSY WITH 6880940 DISK AND WASHER ASSY ALSO ORDER 6880942 PLATE, 4-6880941 DISKS, 6880939 COVER AND 12-9409086 BOLTS	1	1	2	3	
12	NUT, HX HD, 5/16-24 451006	24	24	72	240	
13	COVER, TORQUE CONVERTER, WHEN REPLACING 6880820 . 6880939 COVER WITH 6880939 COVER ALSO ORDER 6880942 PLATE, 4-6880941 DISKS, 6880940 DISK AND WASHER ASSY AND 12-9409086 BOLTS	1			1	

GROUP D

FLEX DISK AND CONVERTER DRIVE, FIGURE 3
14 INCH

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

6	COVER, TORQUE CONVERTER	6884929	1			1
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TORQUE CONVERTER 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	E
6778503	TT4420-1	E	6838755	CT 4420-1	F
6778504	TRT4420-1	E	6838932	TRT 4621-1	C
6778505	TT4420-1	B	6839015	TT 4420-1	A
6778506	TRT4621-1	C	6839016	TRT 4420-1	A
6778850	TRT4420-1	B	6839066	TRT 4420-1	A
6778851	TRT4420-1	B	6839529	TT 4720-1	E
6779472	TRT4420-1	B	6839530	TT 4720-1	E
6779473	TRT4420-1	B	6839531	TT 4720-1	A
6779787	TRT4621-1	C	6839532	TT 4720-1	E
6779877	TRT4420-1	A	6839533	TT 4720-1	A
6830564	TRT4621-1	D	6839535	TRT 4820-1	D
6830580	TRT4420-1	A	6839536	TRT 4820-1	D
6830653	TRT4621-1	D	6839537	TRT 4820-1	D
6830694	TT4420-1	B	6839538	TRT 4820-1	C
6830749	TRT4621-1	D	6839606	TRT 4621-1	C
6830750	TRT4621-1	C	6839751	TRT 4620-1	C
6831146	TT4420-1	A	6839827	TRT 4820-1	C
6831386	TT 4420-1	A	6839828	TT 4720-1	A
6831397	TRT4621-1	D	6839934	TRT 4820-1	D
6831802	TRT 4420-1	A	6880119	CRT 4420-1	F
6831832	TRT 4620-1	D	6880580	TT 4720-1	A
6831834	TRT 4420-1	E	6880637	TRT 4820-1	A
6831887	TRT 4420-1	A	6880651	TRT 4820-1	D
6832150	TRT 4621-1	D	6880821	TRT 4820-1	A
6832151	TRT 4420-1	A	6880963	TRT 4820-1	C
6832448	TT 4420-1	B	6881065	TRT 4820-1	A
6832449	TRT 4420-1	A	6881422	TRT 4820-1	D
6832600	TRT 4621-1	D	6881432	TRT 4820-1	C
6832690	TRT 4621-1	D	6881444	TRT 4820-1	D
6833334	TT 4420-1	A	6881811	TRT 4820-1	D
6833387	TRT 4620-1	D	6882364	TRT 4820-1	C
6834142	TT 4420-1	A	6882740	TT 4820-1	C
6834832	TT 4420-1	A	6883301	TT 4720-1	E
6834954	TRT 4420-1	A	6883512	TRT 4820-1	A
6835026	TT 4420-1	E	6883569	TT 4720-1	E
6835208	TRT 4420-1	E	6883590	TRT 4820-1	E
6835617	TRT 4420-1	A	6883992	TRT 4820-1	D
6835686	TRT 4420-1	E	6884285	TRT 4820-1	C
6835828	TT 4420-1	A	6885375	TRT 4820-1	D
6835991	TT 4420-1	B	6885405	TRT 4820-1	D
6836187	TRT 4621-1	D	6885527	TT 4720-1	E
6836629	TRT 4621-1	C	6885541	TRT 4820-1	D
6836795	TRT 4621-1	D	23010838	TT 4720-1	A
6836975	TRT 4621-1	D	23010839	TT 4720-1	E
6836987	TT 4420-1	A	23010840	TRT 4820-1	C
6837148	TRT 4621-1	D	23011460	TRT 4820-1	G
6837245	TRT 4621-1	D	23011461	TRT 4820-1	D
6837680	TRT 4620-1	C	23011477	TRT 4821-1	H
6837861	TRT 4420-1	E	23011478	TRT 4821-1	H

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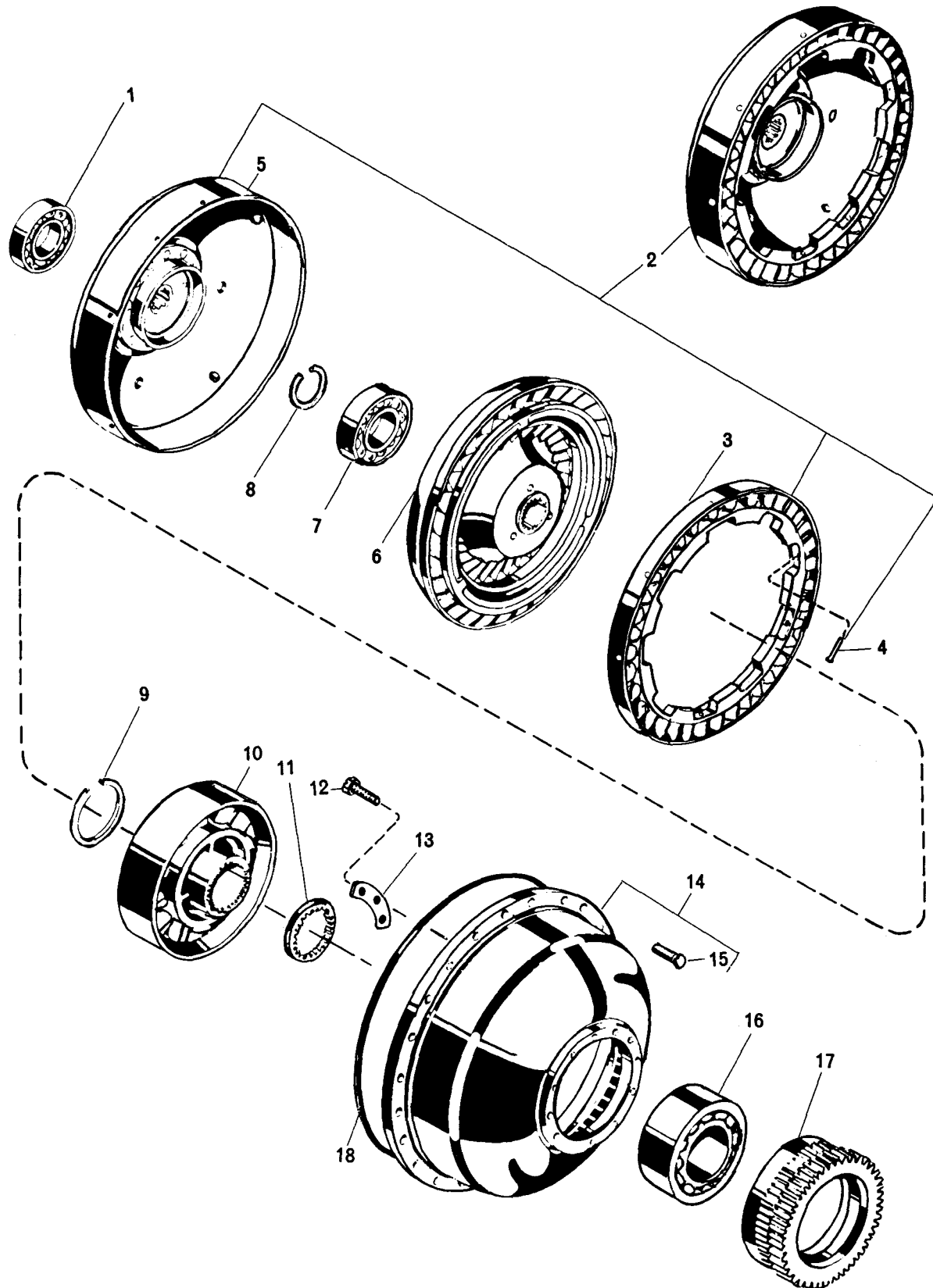
* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE

TORQUE CONVERTER SECTION

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

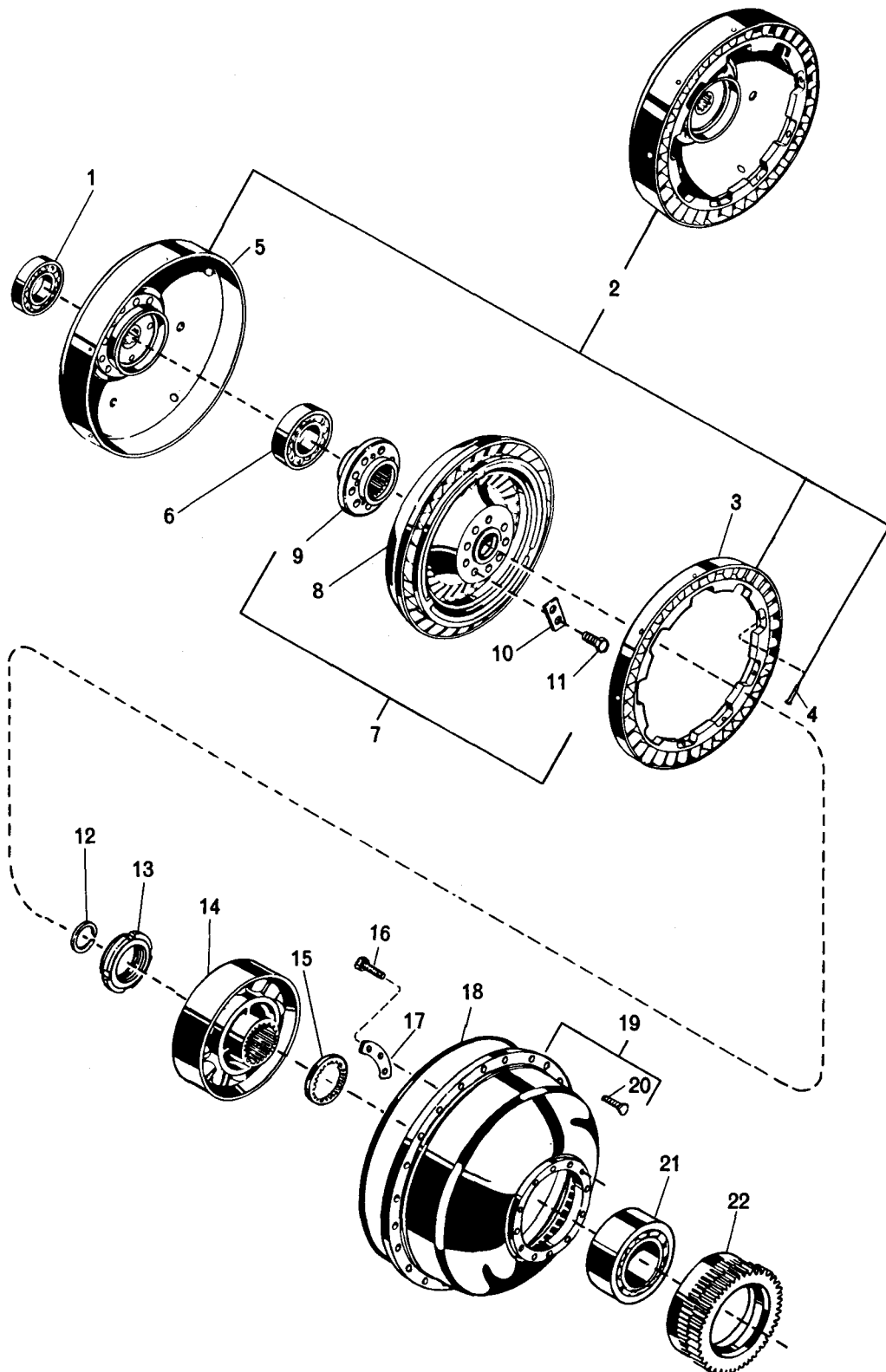
A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
23011479	TRT 4821-1	J	23011492	TT 4721-1	K
23011480	TRT 4821-1	N	23011493	TT 4721-1	L
23011481	TRT 4821-1	J	23011494	TRT 4821-1	H
23011482	TRT 4821-1	K	23011534	TRT 4820-1	G
23011483	TRT 4821-1	H	23012060	TRT 4821-1	M
23011484	TRT 4821-1	J	23012247	TRT 4820-1	D
23011485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

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



4281B

FIG. 4. TORQUE CONVERTER



17303

FIG. 4-1 TORQUE CONVERTER

GROUP A

TORQUE CONVERTER, FIGURE 4

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	BEARING, SINGLE ROW BALL, MCR210SF	9433260	1	1	2	3
2	TURBINE ASSY, FIRST	6832905	1		1	2
3	TURBINE, FIRST	6777566	* 1			
4	PIN	6776508	9	9	18	27
5	TURBINE SUPPORT AND HUB ASSY, NOT SERVICEABLE		* 1			
6	TURBINE, SECOND, 6836094 SECOND TURBINE USED PRIOR TO S/N 5451 AND ON ALL 6880119 TRANS ASSY. WHEN REPLACING 6836094 SECOND TURBINE WITH 6880559 SECOND TURBINE ALSO ORDER 6880557 OR 6880561 SECOND TURBINE DRIVE GEAR	6880559	1		1	2
7	BEARING, SINGLE ROW BALL, MRC 113 KS	9437890	1	1	2	5
8	RING, SNAP	6830048	1	1	2	5
9	RING, SNAP	6754835	1	1	2	5
10	STATOR, TORQUE CONVERTER, TT465 SERIES, 4.67 TO 1 STALL TORQUE RATIO	6778640	1		1	2
11	SPACER	6832995	1	1	2	3
12	BOLT, HX HD, 5/16-24 X 1 1/8	9409020	12	12	24	36
13	RETAINER, PUMP	6776132	4		4	8
14	PUMP ASSY, TORQUE CONVERTER	6777837	1		1	2
15	BOLT, SPECIAL, 5/16-24 X 1.30	6755988	24	24	48	72
16	BEARING, DOUBLE ROW BALL, ND 5215WL1214A	907723	1	1	2	5
17	GEAR, INPUT ACCESSORY DRIVE, 1 TO 1 RATIO. WHEN REPLACING 6839948 GEAR WITH 6881867 GEAR ALSO ORDER 6881866 ACCESSORY DRIVEN GEAR AND 6881868 ACCESSORY DRIVEN GEAR	6881867	1		1	2
18-19	NOT USED IN THIS GROUP.					

GROUP B

TORQUE CONVERTER, FIGURE 4

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

10	STATOR, TORQUE CONVERTER, TT430 SERIES, 6.61 TO 1 STALL TORQUE RATIO, TT420 SERIES, 4.22 TO 1 STALL TORQUE RATIO	6777836	1		1	2
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GROUP C

TORQUE CONVERTER, FIGURE 4

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

1	BEARING, SINGLE ROW BALL, MRC NO. 211 SXL	9437813	1	1	2	5
2	TURBINE ASSY, FIRST	6832904	1		1	2
3	TURBINE, FIRST	6778549	* 1			
4	PIN	6776557	9	9	18	27
6	TURBINE, SECOND, 6832870 SECOND TURBINE USED PRIOR TO S/N 5451 AND ON ALL 6837680 TRANS. ASSYS. WHEN REPLACING 6832870 TURBINE WITH 6884023 TURBINE ALSO ORDER 6880557 OR 6880561 SECOND TURBINE DRIVE GEAR	6884023	1		1	2
10	STATOR, TORQUE CONVERTER, TT625 SERIES, 5.21 TO 1 STALL TORQUE RATIO	6778547	1		1	2
14	PUMP ASSY, TORQUE CONVERTER, WHEN REPLACING 6778551 PUMP ASSY WITH 6838416 PUMP ASSY	6838416	1		1	2

CONTINUED ON NEXT PAGE

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP C CONT

TORQUE CONVERTER, FIGURE 4

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
ALSO ORDER 6880389 SEALRING						
18	RING, SEAL, USED WITH 6838416 PUMP ASSY. ONLY.	6880389	1	1	2	3

GROUP D

TORQUE CONVERTER, FIGURE 4

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

1	BEARING, SINGLE ROW BALL, MRC NO. 211 SXL	9437813	1	1	2	5
2	TURBINE ASSY, FIRST	6832904	1		1	2
3	TURBINE, FIRST	6778549 *	1			
4	PIN	6776557	9	9	18	27
6	TURBINE, SECOND, 6832870 SECOND TURBINE USED PRIOR TO S/N 5451 AND ON ALL 6837680 TRANS. ASSYS. WHEN REPLACING 6832870 TURBINE WITH 6884023 TURBINE ALSO ORDER 6880557 OR 6880561 SECOND TURBINE DRIVE GEAR.	6884023	1		1	2
10	STATOR, TORQUE CONVERTER, TT645 SERIES, 4.91 TO 1 STALL TORQUE RATIO	6778550	1		1	2
14	PUMP ASSY, TORQUE CONVERTER, WHEN REPLACING . . . 6778551 PUMP ASSY WITH 6838416 PUMP ASSY ALSO ORDER 6880389 SEALRING.	6838416	1		1	2
18	RING, SEAL, USED WITH 6838416 PUMP ASSY. ONLY. .	6880389	1	1	2	3

GROUP E

TORQUE CONVERTER, FIGURE 4

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

10	STATOR, TORQUE CONVERTER, TT445 SERIES, 4.92 TO 1 STALL TORQUE RATIO	6777853	1		1	2
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GROUP F

TORQUE CONVERTER, FIGURE 4

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2-4	NOT USED IN THIS GROUP					
5	TURBINE SUPPORT AND HUB ASSY	6838574	1		1	2
6	TURBINE, SECOND, 6836094 TURBINE USED PRIOR TO . S/N 5451 AND ON ALL 6880119 ASSEMBLIES. WHEN REPLACING 6836094 TURBINE WITH 6880559 TURBINE ALSO ORDER 6880557 OR 6880561 SECOND TURBINE DRIVE GEAR.	6880559	1		1	2

GROUP G

TORQUE CONVERTER, FIGURE 4

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1	BEARING, SINGLE ROW BALL, MRC NO.211 SXL	9437813	1	1	2	5
2	TURBINE ASSY, FIRST	6832904	1		1	2
3	TURBINE, FIRST	6778549 *	1			
4	PIN	6776557	9	9	18	27
5	TURBINE SUPPORT AND HUB ASSY NOT SERVICEABLE	*	1			

CONTINUED ON NEXT PAGE

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP G CONT

TORQUE CONVERTER, FIGURE 4

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
6	TURBINE, SECOND	6884023	1		1	2
10	STATOR, TORQUE CONVERTER, TT615 SERIES, 5.50 TO 1 STALL TORQUE RATIO	23010209	1		1	2
14	PUMP ASSY, TORQUE CONVERTER, WHEN REPLACING 6778551 PUMP ASSY WITH 6838416 PUMP ASSY ALSO ORDER 6880389 SEALRING.	6838416	1		1	2
18	RING, SEAL, USED WITH 6838416 PUMP ASSY. ONLY.	6880389	1	1	2	3

GROUP H

TORQUE CONVERTER, FIGURE 4-1

1	BEARING, SINGLE ROW BALL, MRC NO2115XL	9437813	1	1	2	5
2	TURBINE ASSY, FIRST	6884757	1		1	2
3	TURBINE, FIRST	6778549 *	1			
4	PIN	6776557	9	9	18	27
5	TURBINE SUPPORT AND HUB ASSY, NOT SERVICEABLE		*			
6	BEARING	9411762	1	1	2	5
7	TURBINE ASSY, SECOND	23011847	1		1	2
8	HUB, SECOND TURBINE	6884765	1		1	2
9	TURBINE, SECOND	6884764	1		1	2
10	STRIP, LOCKING	6884880	5	5	10	20
11	BOLT, HX HD, 7/16-20 X 3/4	454955	10	10	20	40
12	RING, SNAP	23013204	1	1	2	5
13	NUT	6778439	1	1	2	3
14	STATOR, TORQUE CONVERTER, TT645 SERIES 4.91 TO 1 STALL TORQUE RATIO	6778550	1		1	2
15	SPACER	6832995	1	1	2	3
16	BOLT, HX HD, 5/16-24 X 1 1/8	9409020	12	12	24	36
17	RETAINER, PUMP	6776132	4		4	8
18	RING, SEAL	6880389	1	1	2	3
19	PUMP ASSY, TORQUE CONVERTER	6838416	1		1	2
20	BOLT, SPECIAL, 5/16-24 X 1.30	6755988	24	24	48	72
21	BEARING, DOUBLE ROW BALL, ND5216WL1214A	907723	1	1	2	5
22	GEAR, INPUT ACCESSORY DRIVE, 1 TO 1 RATIO	6881867	1		1	2

GROUP J

TORQUE CONVERTER, FIGURE 4-1

SAME AS GROUP H, EXCEPT FOR PARTS LISTED BELOW

14	STATOR, TORQUE CONVERTER, TT625 SERIES, 5.21 TO 1 STALL TORQUE RATIO	6778547	1		1	2
----	---	---------	---	--	---	---

GROUP K

TORQUE CONVERTER, FIGURE 4-1

SAME AS GROUP H, EXCEPT FOR PARTS LISTED BELOW

1	BEARING, SINGLE ROW BALL, MCR210SF	9433260		1	2	3
2	TURBINE ASSY, FIRST	6884881	1		1	2
3	TURBINE, FIRST	6777566 *	1			
4	PIN	6776508	9	9	18	27
5	TURBINE SUPPORT AND HUB ASSY. NOT SERVICEABLE					
7	TURBINE ASSY, SECOND	23011848	1		1	2

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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP K CONT

TORQUE CONVERTER, FIGURE 4-1

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
8	HUB, SECOND TURBINE	6884928	1		1	2
9	TURBINE, SECOND	6884883	1		1	2
14	STATOR, TORQUE CONVERTER, T1465 SERIES, 4.67 TO 1 STALL TORQUE RATIO.	6778640	1		1	2
18	NOT USED IN THIS GROUP					
19	PUMP ASSY, TORQUE CONVERTER	6777837	1		1	2

GROUP L

TORQUE CONVERTER, FIGURE 4-1

SAME AS GROUP H, EXCEPT FOR PARTS LISTED BELOW

1	BEARING, SINGLE ROW BALL, MRC NO. 210SF	9433260	1	1	2	5
2	TURBINE ASSY, FIRST	6884881	1		1	2
3	TURBINE, FIRST	6777566	* 1			
4	PIN	6776508	9	9	18	27
5	TURBINE SUPPORT AND HUB ASSY. NOT SERVICEABLE		*			
7	TURBINE ASSY, SECOND	23011848	1		1	2
8	HUB, SECOND TURBINE	6884928	1		1	2
9	TURBINE, SECOND	6884883	1		1	2
14	STATOR, TORQUE CONVERTER, T1445 SERIES, 4.92 TO 1 STALL TORQUE RATIO	6777853	1		1	2
18	NOT USED IN THIS GROUP					
19	PUMP ASSY, TORQUE CONVERTER	6777837	1		1	2

GROUP M

TORQUE CONVERTER, FIGURE 4-1

SAME AS GROUP H, EXCEPT FOR PARTS LISTED BELOW

6	BEARING	9439502	1	1	2	5
14	STATOR, TORQUE CONVERTER, T1615 SERIES, 5.50 TO 1 STALL TORQUE RATIO.	23010209	1		1	2

GROUP N

TORQUE CONVERTER, FIGURE 4-1

SAME AS GROUP H, EXCEPT FOR PARTS LISTED BELOW

6	BEARING	9439502	1	1	2	5
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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

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

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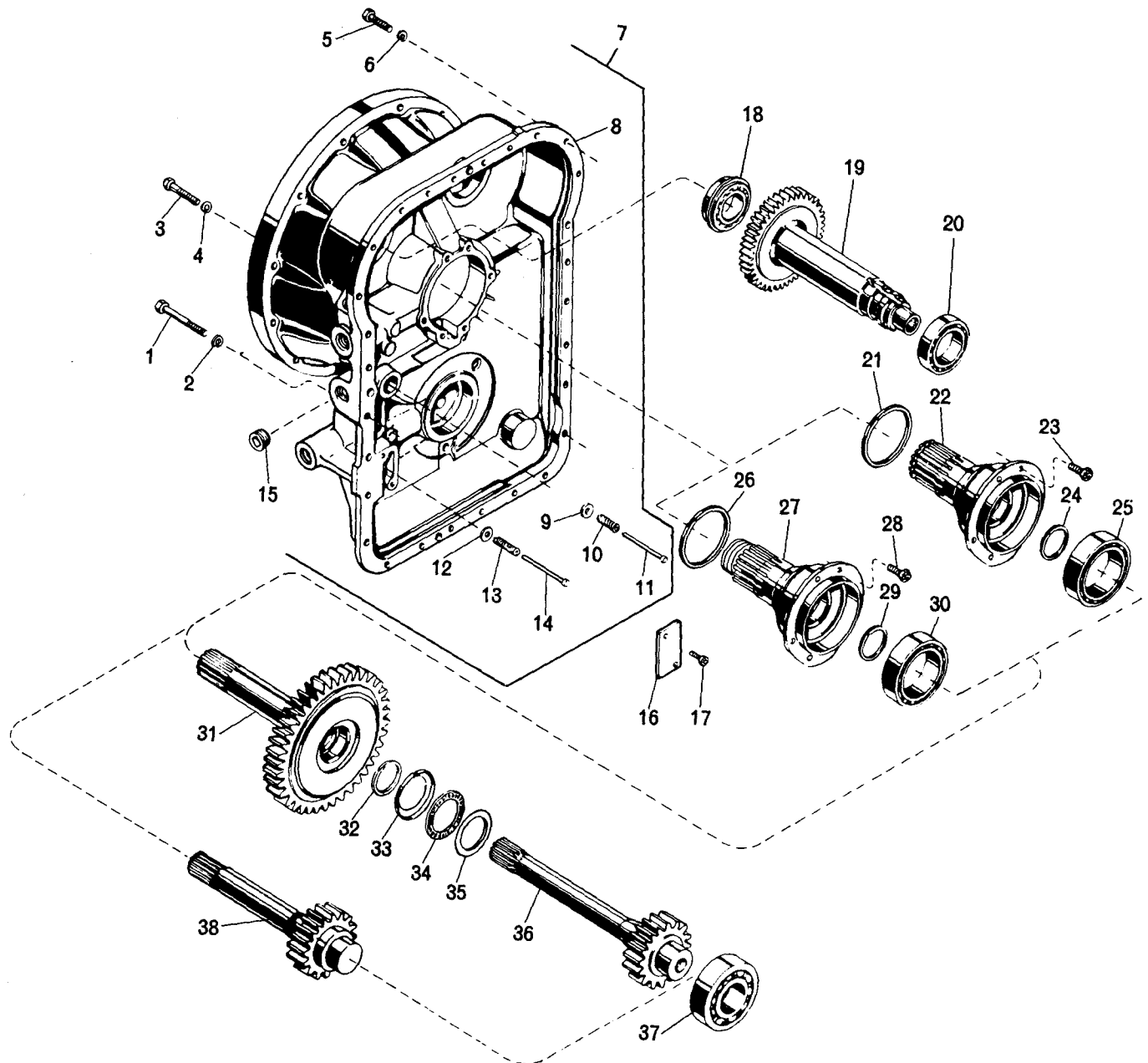
* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE

TORQUE CONVERTER HOUSING 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	N	23011492	TT 4721-1	N
23011480	TRT 4821-1	N	23011493	TT 4721-1	N
23011481	TRT 4821-1	P	23011494	TRT 4821-1	N
23011482	TRT 4821-1	Q	23011534	TRT 4820-1	K
23011483	TRT 4821-1	N	23012060	TRT 4821-1	N
23011484	TRT 4821-1	N	23012247	TRT 4820-1	K
23011485	TRT 4821-1	N	23012398	TRT 4821-1	N
23011486	TRT 4821-1	N	23012399	TT 4721-1	N
23011487	TRT 4821-1	N	23012400	TRT 4821-1	N
23011488	TRT 4821-1	N	23012401	TRT 4821-1	N
23011489	TT 4721-1	N	23012481	TRT 4820-1	K
23011490	TT 4721-1	N	23012683	TRT 4821-1	N
23011491	TT 4721-1	N	23012781	TRT 4821-1	N

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



4282C

FIG. 5. TORQUE CONVERTER HOUSING
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GROUP A

TORQUE CONVERTER HOUSING, FIGURE 5

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	BOLT, HX HD, 7/16-14 X 3	179870	3	3	6	9
2	WASHER, LOCK, 7/16	103322	3	3	6	9
3	BOLT, HX HD, 7/16-14X1 3/4	179864	4	4	8	12
4	WASHER, LOCK, 7/16	103322	4	4	8	12
5	BOLT, HX HD, 7/16-14 X 1 1/4	179860	21	21	42	63
6	WASHER, LOCK, 7/16	103322	21	21	42	63
7	HOUSING ASSY, CONVERTER. SEE SPI 14TR77	6884131	1			1
8	HOUSING, CONVERTER	6833128	*	1		
9	VALVE, CONVERTER REGULATOR	6757447	1		1	2
10	SPRING, CONVERTER REGULATOR. SEE SPI 14TR77	6880795	1	1	2	3
11	PIN, VALVE GUIDE	6834176	1		1	2
12	VALVE, LUBE OVERAGE	6757447	1		1	2
13	SPRING, LUBE OVERAGE	6776495	1	1	2	3
14	PIN, VALVE GUIDE	6834176	1		1	2
15	PLUG	444672	1		1	2
16	COVER, LUBE OVERAGE VALVE	6776500	1			1
17	BOLT, HX HD, 3/8-16 X 3/4	9409027	2	2	4	6
18	BEARING, SINGLE ROW BALL, MCR210-SG-LO	9437255	1	1	2	5
19	GEAR, ACCESSORY DRIVEN, 1 TO 1 RATIO	6778514	1		1	2
20	BEARING ASSY, ROLLER, NDH BU1012L, CONSISTS OF 1-7451559 INNER BEARING AND 1-7451557 OUTER RACE	7451558	1	1	2	5
21	RING, SEAL	6774721	1	1	3	10
22	SLEEVE, CONVERTER GROUND, WHEN REPLACING 6778226 GROUND SLEEVE WITH 1-6832931 GROUND SLEEVE ALSO ORDER 6-9409028 BOLTS	6832931	1		1	2
23	BOLT, HX HD, 3/8-16 X 1, USE 9409079 BOLT PRIOR TO S/N 789, USED WITH 6778226 GROUND SLEEVE ONLY 9409028 BOLT USED WITH 6832931 SLEEVE ONLY.	9409028	6	6	12	18
24	RING, SEAL	6884755	1	1	3	10
25	BEARING, SINGLE ROW BALL, MRC 116-KS	9432185	1	1	2	5
26-30	NOT USED IN THIS GROUP					
31	GEAR, SECOND TURBINE DRIVE, USE 6778262 GEAR . . PRIOR TO S/N 5451. WHEN REPLACING 6778262 GEAR WITH 23011868 GEAR ALSO ORDER 6884023 OR 6880559 SECOND TURBINE	23011868	1		1	2
32	RING, SEAL	6884755	1	1	3	10
33	RACE, ROLLER BEARING	9419637	1	1	2	5
34	BEARING, ROLLER, TORRINGTON FA-31022	9419638	1	1	2	5
35	RACE, ROLLER BEARING	9419639	1	1	2	5
36	GEAR, FIRST TURBINE DRIVE, WHEN REPLACING 6778222 FIRST TURBINE DRIVE GEAR WITH 1-6832992 FIRST TURBINE DRIVE GEAR ALSO ORDER 1-9437710 BEARING	6832992	1		1	2
37	BEARING, SINGLE ROW BALL, MRC 311 SXL	9437710	1	1	2	5
38	NOT USED IN THIS GROUP					

GROUP B

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

36	GEAR, FIRST TURBINE DRIVE. WHEN REPLACING 6778224 FIRST TURBINE DRIVE GEAR WITH 1-6832966 FIRST TURBINE DRIVE GEAR ALSO ORDER 1-9437710 BEARING	6832966	1		1	2
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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP C

TORQUE CONVERTER HOUSING, FIGURE 5

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
7	HOUSING ASSY, CONVERTER	6778527	1			1
8	HOUSING, CONVERTER	6778526 *	1			
36	GEAR, FIRST TURBINE DRIVE, WHEN REPLACING 6778224 FIRST TURBINE DRIVE GEAR WITH 1-6832966 FIRST TURBINE DRIVE GEAR ALSO ORDER 1-9437710 BEARING	6832966	1		1	2

GROUP D

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

7	HOUSING ASSY, CONVERTER	6778527	1			1
8	HOUSING, CONVERTER	6778526 *	1			

GROUP E

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

31	GEAR, SECOND TURBINE DRIVE, USE 6837676 GEAR . . PRIOR TO S/N 5451. WHEN REPLACING 6837676 GEAR WITH 6880561 GEAR ALSO ORDER 6884023 TURBINE	6880561	1		1	2
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GROUP F

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

25-36	NOT USED IN THIS GROUP					
38	GEAR SECOND TURBINE DRIVE	6838575	1		1	2

GROUP G

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

19	GEAR, ACCESSORY DRIVEN, 1 TO 1 RATIO. WHEN . . . REPLACING 6839949 GEAR WITH 6881868 GEAR ALSO ORDER 6881867 INPUT ACCESSORY DRIVE GEAR AND 6881866 ACCESSORY DRIVEN GEAR	6881868	1		1	2
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GROUP H

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

19	GEAR, ACCESSORY DRIVEN, 1 TO 1 RATIO. WHEN . . . REPLACING 6839949 GEAR WITH 6881868 GEAR ALSO ORDER 6881867 INPUT ACCESSORY DRIVE GEAR AND 6881866 ACCESSORY DRIVEN GEAR	6881868	1		1	2
----	--	---------	---	--	---	---

CONTINUED ON NEXT PAGE

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP H CONT

TORQUE CONVERTER HOUSING, FIGURE 5

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
31	GEAR, SECOND TURBINE DRIVE, USE 6837676 GEAR PRIOR TO S/N 5451. WHEN REPLACING 6837676 GEAR WITH 6880561 GEAR ALSO ORDER 6884023 TURBINE	6880561	1		1	2

GROUP J

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

19	GEAR, ACCESSORY DRIVEN, 1 TO 1 RATIO. WHEN REPLACING 6839949 GEAR WITH 6881868 GEAR ALSO ORDER 6881867 INPUT ACCESSORY DRIVE GEAR AND 6881866 ACCESSORY DRIVEN GEAR	6881868	1		1	2
22	SLEEVE, CONVERTER GROUND, USED WITH 6-9409030 BOLTS	6882709	1		1	2
23	BOLT, HX HD, 3/8-16 X 1 1/4. USED WITH 6882709 SLEEVE ONLY	9409030	6	6	12	18
36	GEAR, FIRST TURBINE DRIVE	6832966	1		1	2

GROUP K

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

19	GEAR, ACCESSORY DRIVEN, 1 TO 1 RATIO. WHEN REPLACING 6839949 GEAR WITH 6881868 GEAR ALSO ORDER 6881867 INPUT ACCESSORY DRIVE GEAR AND 6881866 ACCESSORY DRIVEN GEAR	6881868	1		1	2
22	SLEEVE, CONVERTER GROUND, USED WITH 6-9409030 BOLTS ONLY	6882709	1		1	2
23	BOLT, HX HD, 3/8-16 X 1 1/4. USED WITH 6882709 SLEEVE ONLY	9409030	6	6	12	18

GROUP L

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

19	GEAR, ACCESSORY DRIVEN, 1 TO 1 RATIO	6881868	1		1	2
36	GEAR, FIRST TURBINE DRIVE	6832966	1		1	2

GROUP M

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

22	SLEEVE, CONVERTER GROUND, USED WITH 6-9409030 BOLTS	6882709	1		1	2
23	BOLT, HX HD, 3/8-16 X 1 1/4, USED WITH 6882709 SLEEVE ONLY	9409030	6	6	12	18
36	GEAR, FIRST TURBINE DRIVE	6832966	1		1	2

GROUP N

TORQUE CONVERTER HOUSING, FIGURE 5

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
15	PLUG	23012031	1		1	2
19	GEAR, ACCESSORY DRIVEN, 1 TO 1 RATIO	6881868	1	1	2	5
21-25	NOT USED IN THIS GROUP					
26	RING, SEAL	6774721	1	1	3	10
27	SLEEVE, CONVERTER GROUND	6884761	1		1	2
28	BOLT, HX HD, 3/8-16 X 1 1/4	9409030	6	6	12	18
29	RING, SEAL	6884755	1	1	3	10
30	BEARING, SINGLE ROW BALL, MCR NO. 214M	9437849	1	1	3	10
31	GEAR, SECOND TURBINE DRIVE	6884763	1		1	2
32	RING, SEAL	6773483	1	1	3	10
36	GEAR, FIRST TURBINE DRIVE	6884762	1		1	2

GROUP P

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

15	PLUG	23012031	1		1	2
19	GEAR, ACCESSORY DRIVEN, 1 TO 1 RATIO	6881868	1	1	2	5
21-25	NOT USED IN THIS GROUP					
26	RING, SEAL	6774721	1	1	3	10
27	SLEEVE, CONVERTER GROUND	6884886	1		1	2
28	BOLT, HX HD, 3/8-16 X 1	9409028	6	6	12	18
29	RING, SEAL	6884755	1	1	3	10
30	BEARING, SINGLE ROW BALL, MCR NO. 214M	9437849	1	1	3	10
31	GEAR, SECOND TURBINE DRIVE	6884885	1		1	2
32	RING, SEAL	6773483	1	1	3	10
36	GEAR, FIRST TURBINE DRIVE	6884762	1		1	2

GROUP Q

TORQUE CONVERTER HOUSING, FIGURE 5

SAME AS GROUP N, EXCEPT FOR PARTS LISTED BELOW

36	GEAR, FIRST TURBINE DRIVE	6884884	1		1	2
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TURBINE DRIVEN GEARS AND FREEWHEEL UNIT 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	M	6838149	TT 4420-1	A
6778503	TT4420-1	M	6838755	CT 4420-1	F
6778504	TRT4420-1	N	6838932	TRT 4621-1	C
6778505	TT4420-1	B	6839015	TT 4420-1	A
6778506	TRT4621-1	N	6839016	TRT 4420-1	C
6778850	TRT4420-1	D	6839066	TRT 4420-1	D
6778851	TRT4420-1	D	6839529	TT 4720-1	G
6779472	TRT4420-1	D	6839530	TT 4720-1	G
6779473	TRT4420-1	D	6839531	TT 4720-1	G
6779787	TRT4621-1	C	6839532	TT 4720-1	G
6779877	TRT4420-1	D	6839533	TT 4720-1	G
6830564	TRT4621-1	C	6839535	TRT 4820-1	H
6830580	TRT4420-1	D	6839536	TRT 4820-1	H
6830653	TRT4621-1	C	6839537	TRT 4820-1	H
6830694	TT4420-1	B	6839538	TRT 4820-1	J
6830749	TRT4621-1	C	6839606	TRT 4621-1	K
6830750	TRT4621-1	C	6839751	TRT 4620-1	E
6831146	TT4420-1	A	6839827	TRT 4820-1	H
6831386	TT 4420-1	A	6839828	TT 4720-1	G
6831397	TRT4621-1	C	6839934	TRT 4820-1	H
6831802	TRT 4420-1	D	6880119	CRT 4420-1	L
6831832	TRT 4620-1	C	6880580	TT 4720-1	G
6831834	TRT 4420-1	C	6880637	TRT 4820-1	H
6831887	TRT 4420-1	N	6880651	TRT 4820-1	H
6832150	TRT 4621-1	C	6880821	TRT 4820-1	P
6832151	TRT 4420-1	C	6880963	TRT 4820-1	J
6832448	TT 4420-1	B	6881065	TRT 4820-1	P
6832449	TRT 4420-1	D	6881422	TRT 4820-1	H
6832600	TRT 4621-1	C	6881432	TRT 4820-1	H
6832690	TRT 4621-1	C	6881444	TRT 4820-1	H
6833334	TT 4420-1	A	6881811	TRT 4820-1	H
6833387	TRT 4620-1	C	6882364	TRT 4820-1	H
6834142	TT 4420-1	A	6882740	TT 4820-1	J
6834832	TT 4420-1	A	6883301	TT 4720-1	M
6834954	TRT 4420-1	C	6883512	TRT 4820-1	H
6835026	TT 4420-1	B	6883569	TT 4720-1	G
6835208	TRT 4420-1	C	6883590	TRT 4820-1	P
6835617	TRT 4420-1	D	6883992	TRT 4820-1	H
6835686	TRT 4420-1	C	6884285	TRT 4820-1	H
6835828	TT 4420-1	B	6885375	TRT 4820-1	H
6835991	TT 4420-1	B	6885405	TRT 4820-1	H
6836187	TRT 4621-1	C	6885527	TT 4720-1	Q
6836629	TRT 4621-1	C	6885541	TRT 4820-1	H
6836795	TRT 4621-1	C	23010838	TT 4720-1	G
6836975	TRT 4621-1	C	23010839	TT 4720-1	G
6836987	TT 4420-1	A	23010840	TRT 4820-1	H
6837148	TRT 4621-1	C	23011460	TRT 4820-1	H
6837245	TRT 4621-1	C	23011461	TRT 4820-1	H
6837680	TRT 4620-1	E	23011477	TRT 4821-1	N
6837861	TRT 4420-1	N	23011478	TRT 4821-1	N

CONTINUED ON NEXT PAGE

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

6-1.2 ALLISON POWERSHIFT TRANSMISSION TT, TRT, CT AND CRT 4000 SERIES PARTS CATALOG

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT 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	N	23011492	TT 4721-1	G
23011480	TRT 4821-1	N	23011493	TT 4721-1	G
23011481	TRT 4821-1	J	23011494	TRT 4821-1	N
23011482	TRT 4821-1	P	23011534	TRT 4820-1	H
23011483	TRT 4821-1	N	23012060	TRT 4821-1	N
23011484	TRT 4821-1	N	23012247	TRT 4820-1	H
23011485	TRT 4821-1	N	23012398	TRT 4821-1	N
23011486	TRT 4821-1	N	23012399	TT 4721-1	G
23011487	TRT 4821-1	N	23012400	TRT 4821-1	N
23011488	TRT 4821-1	N	23012401	TRT 4821-1	N
23011489	TT 4721-1	G	23012481	TRT 4820-1	H
23011490	TT 4721-1	G	23012683	TRT 4821-1	N
23011491	TT 4721-1	G	23012781	TRT 4821-1	N

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

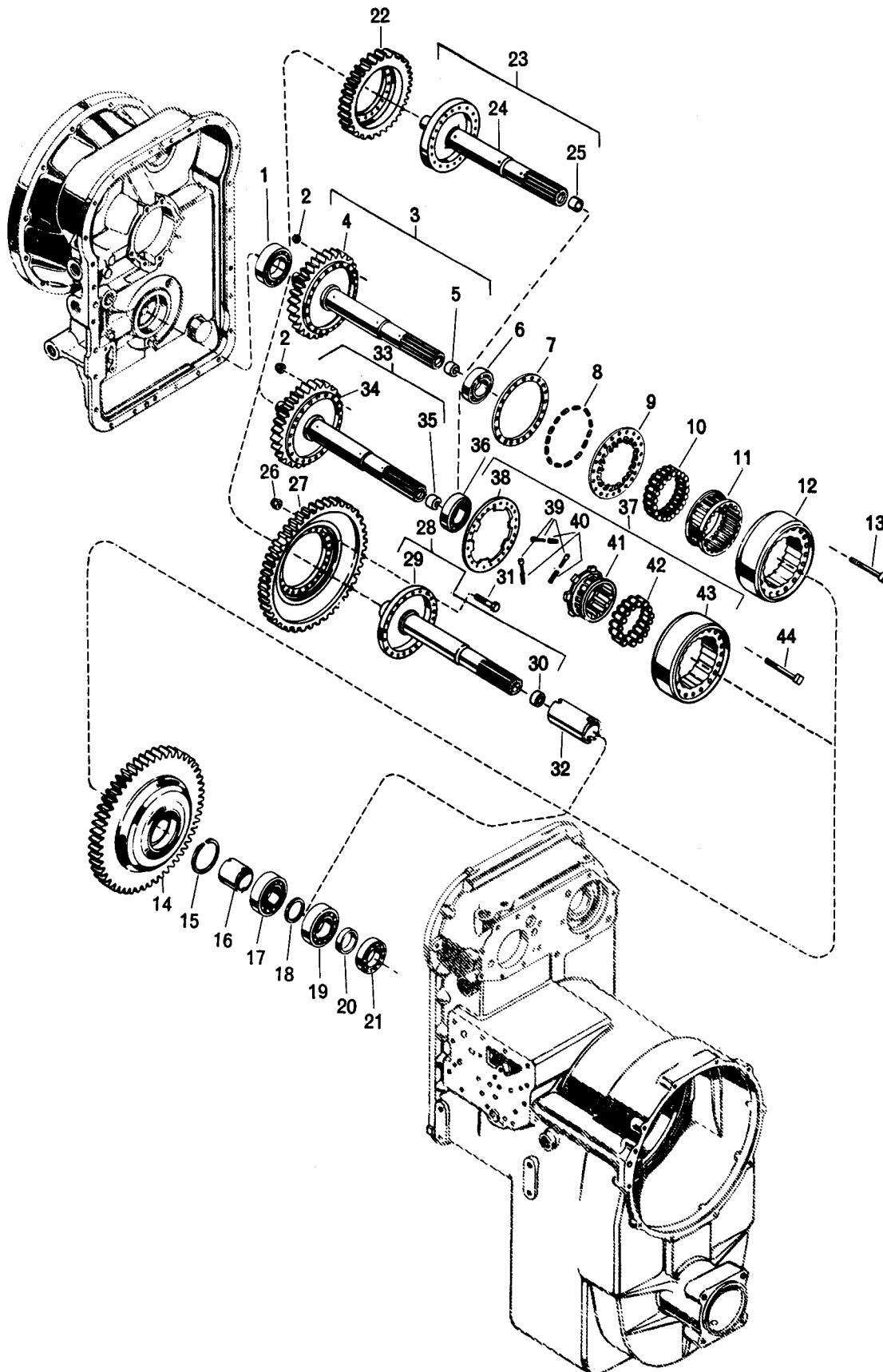


FIG. 6. TURBINE DRIVEN GEARS AND FREEWHEEL UNIT

GROUP A

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	BEARING, SINGLE ROW BALL, MRC NO. 211 SXL	9437813	1	1	2	5
2	NUT, HX, SELF LOCKING, 3/8-24	560545	21	21	42	105
3	NOT USED IN THIS GROUP					
4	GEAR, SECOND TURBINE DRIVEN	6838773	1		1	2
5	NOT USED IN THIS GROUP					
6	BEARING, SINGLE ROW BALL, ND3L10L1214A	907692	1	1	2	5
7	PLATE, CAGE RETAINER, USE 6831377 SPRING RETAINER PLATE PRIOR TO S/N 1405. 6831377 OR 6833503 RETAINER PLATE MAY BE REPLACED WITH 6839620 FREEWHEEL CLUTCH KIT. 6839620 FREEWHEEL CLUTCH KIT CONSISTS OF 6883982 CAGE, 3-6838744 SPRINGS, 6837980 CAGE RETAINER PLATE, 21- 7451288 ROLLERS, 23013493 CAM, 3-6838745 PINS AND, 6839622 INSTRUCTION SHEET, SEE SPI 668.	6833503	1	1	2	3
8	SPRING, FREEWHEEL, USE 3-6756907 SPRINGS PRIOR TO S/N 1405. 6756907 OR 6833228 SPRINGS MAY BE REPLACED WITH 6839620 FREEWHEEL CLUTCH KIT. 6839620 FREEWHEEL CLUTCH KIT CONSISTS OF 6883982 CAGE, 3-6838744 SPRINGS, 6837980 CAGE RETAINER PLATE, 21-7451288 ROLLERS, 23013493 CAM, 3-6838745 PINS AND 6839622 INSTRUCTION SHEET. SEE SPI 668.	6833228	14	14	28	56
9	PLATE, SPRING RETAINER, FREEWHEEL. REPLACE 6833867 SPRING RETAINER PLATE WITH 6839620 FREEWHEEL CLUTCH KIT. 6839620 FREEWHEEL CLUTCH KIT CONSISTS OF 6883982 CAGE, 3-6838744 SPRINGS, 6837980 CAGE RETAINER PLATE, 21-7451288 ROLLERS, 23013493 CAM, 3-6838745 PINS AND 6839622 INSTRUCTION SHEET. SEE SPI 668.	6833867	* 1			
10	ROLLER, FREEWHEEL	7451288	21	21	42	84
11	CAGE, ROLLER FREEWHEEL, REPLACE 6833354 OR 6833866 CAGE WITH 6839620 FREEWHEEL CLUTCH KIT. 6839620 FREEWHEEL CLUTCH KIT CONSISTS OF 6883982 CAGE, 3-6838744 SPRINGS, 6837980 CAGE RETAINER PLATE, 21-7451288 ROLLERS, 23013493 CAM, 3-6838744 PINS AND 6839622 INSTRUCTION SHEET. SEE SPI 668.	6833866	* 1			
12	CAM, FREEWHEEL, REPLACE 6778230 OR 6834001 CAM WITH 6839620 FREEWHEEL CLUTCH KIT. 6839620 FREEWHEEL CLUTCH KIT CONSISTS OF 6883982 CAGE, 3-6838744 SPRINGS, 6837980 CAGE RETAINER PLATE, 21-7451288 ROLLERS, 23013493 CAM, 6838745 PINS AND 6839622 INSTRUCTION SHEET. SEE SPI 668.	6834001	* 1			
13	BOLT, SQ HD, 3/8-24 X 3 1/2	6775638	21	21	42	63
14	GEAR, FIRST TURBINE DRIVEN	6778233	1		1	2
15	RING, SNAP	6759926	1	1	2	5
16	SPACER, BEARING	6832545	1	1	2	3
17	BEARING, SINGLE ROW BALL, MRC 210SF	9433260	1	1	2	5
18	SPACER, BEARING	6776469	1	1	2	5
19	BEARING, SINGLE ROW BALL, NDH 1210 LR1214A	907819	1	1	2	5
20	SPACER, BEARING	6778235	1	1	2	3
21	BEARING, SINGLE ROW BALL, ND3L10L1214A	907692	1	1	2	5
22-44	NOT USED IN THIS GROUP					

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP B

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

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
14	GEAR, FIRST TURBINE DRIVEN	6778234	1		1	2

GROUP C

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

3	GEAR ASSY, SECOND TURBINE DRIVEN	6884932	1		1	2
4	GEAR, SECOND TURBINE DRIVEN	6838707 *	1			
5	BUSHING	6884908	1	1	2	4

GROUP D

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

3	GEAR ASSY, SECOND TURBINE DRIVEN	6884932	1		1	2
4	GEAR, SECOND TURBINE DRIVEN	6838707 *	1			
5	BUSHING	6884908	1	1	2	4
14	GEAR, FIRST TURBINE DRIVEN	6778234	1		1	2

GROUP E

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

3-5	NOT USED IN THIS GROUP					
22	GEAR, SECOND TURBINE DRIVEN	6837678	1		1	2
23	SHAFT ASSY, SECOND TURBINE DRIVEN GEAR	6884931	1		1	2
24	SHAFT, SECOND TURBINE DRIVEN GEAR	6839547 *	1			
25	BUSHING	6884908	1	1	2	4

GROUP F

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2-18	NOT USED IN THIS GROUP					
26	NUT, HX, SELF-LOCKING, 3/8-24	560545	21	21	42	105
27	GEAR, TURBINE DRIVEN	6838576	1		1	2
28	NOT USED IN THIS GROUP					
29	SHAFT, TURBINE DRIVEN	6838973	1		1	2
30	NOT USED IN THIS GROUP					
31	BOLT, HX HD, 3/8-24 X 1 1/2	9409038	21	21	42	105
32	SPACER	6838577	1	1	2	3

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP G

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

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
3-13	NOT USED IN THIS GROUP					
22-32	NOT USED IN THIS GROUP					
33	GEAR ASSY, SECOND TURBINE DRIVEN	6839506	1		1	2
34	GEAR, SECOND TURBINE DRIVEN	6838773	* 1			
35	PLUG, ORIFICE	6839507	1	1	2	4
36	BEARING, SINGLE ROW BALL, ND3L10L1214A	907692	1	1	2	5
37	KIT, FREEWHEEL CLUTCH	6839620	1	1	2	3
38	PLATE, SPRING RETAINER	6837980	1	1	2	3
39	PIN, TICKLE SPRING, FREEWHEEL	6838745	3	3	6	12
40	SPRING, TICKLE, FREEWHEEL	6838744	3	3	6	12
41	CAGE, ROLLER, FREEWHEEL	6883982	1	1	2	4
42	ROLLER, FREEWHEEL	7451288	21	21	42	84
43	CAM, FREEWHEEL	23013493	1	1	2	4
44	BOLT, SQ HD, 3/8-24 X 3 1/2	6775638	21	21	42	63

GROUP H

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

3	GEAR ASSY, SECOND TURBINE DRIVEN	6884932	1		1	2
4	GEAR, SECOND TURBINE DRIVEN	6838707	* 1			
5	BUSHING	6884908	1	1	2	4
6-13	NOT USED IN THIS GROUP					
22-35	NOT USED IN THIS GROUP					
36	BEARING, SINGLE ROW BALL, ND3L10L1214A	907692	1	1	2	5
37	KIT, FREEWHEEL CLUTCH	6839620	1	1	2	3
38	PLATE, SPRING RETAINER	6837980	1	1	2	3
39	PIN, TICKLE SPRING, FREEWHEEL	6838745	3	3	6	12
40	SPRING, TICKLE, FREEWHEEL	6838744	3	3	6	12
41	CAGE, ROLLER, FREEWHEEL	6883982	1	1	2	4
42	ROLLER, FREEWHEEL	7451288	21	21	42	63
43	CAM, FREEWHEEL	23013493	1	1	2	4
44	BOLT, SQ HD, 3/8-24 X 3 1/2	6775638	21	21	42	63

GROUP J

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

3-13	NOT USED IN THIS GROUP					
22	GEAR, SECOND TURBINE DRIVEN	6837678	1		1	2
23	SHAFT ASSY, SECOND TURBINE DRIVEN GEAR	6884931	1		1	2
24	SHAFT, SECOND TURBINE DRIVEN GEAR	6839547	* 1			
25	BUSHING	6884908	1	1	2	4
26-32	NOT USED IN THIS GROUP					
36	BEARING, SINGLE ROW BALL, ND3L10L1214A	907692	1	1	2	3
37	KIT, FREEWHEEL CLUTCH	6839620	1	1	2	3
38	PLATE, SPRING RETAINER	6837980	1	1	2	3
39	PIN, TICKLE SPRING, FREEWHEEL	6838745	3	3	6	12
40	SPRING, TICKLE, FREEWHEEL	6838744	3	3	6	12
41	CAGE, ROLLER, FREEWHEEL	6883982	1	1	2	4
42	ROLLER, FREEWHEEL	7451288	21	21	42	63

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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP J CONT

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

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
43	CAM, FREEWHEEL	23013493	1	1	2	4
44	BOLT, SQ HD, 3/8-24 X 3 1/2	6775638	21	21	42	63

GROUP K

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

3-5	NOT USED IN THIS GROUP					
8	SPRING, FREEWHEEL	6833228	10	10	20	30
22	GEAR, SECOND TURBINE DRIVEN	6837678	1		1	2
23	SHAFT ASSY, SECOND TURBINE DRIVEN GEAR	6884931	1		1	2
24	SHAFT, SECOND TURBINE DRIVEN GEAR	6839547 *	1			
25	BUSHING	6884908	1	1	2	4

GROUP L

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

2-18	NOT USED IN THIS GROUP					
26	NUT, HX, SELF-LOCKING, 3/8-24	560545	21	21	42	105
27	GEAR, TURBINE DRIVEN	6838576	1		1	2
28	SHAFT ASSY, SECOND TURBINE DRIVEN GEAR	6884931	1		1	2
29	SHAFT, SECOND TURBINE DRIVEN GEAR	6839547 *	1			
30	BUSHING	6884908	1	1	2	4
31	BOLT, HX HD, 3/8-24 X 1 1/2	9409038	21	21	42	105
32	SPACER	6838577	1	1	2	3

GROUP M

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

19	BEARING, SINGLE ROW BALL, NDH 1210 LR 1214A . . .	907819	1	1	2	5
6-13	NOT USED IN THIS GROUP					
36	BEARING, SINGLE ROW BALL, ND3L10L1214A	907692	1	1	2	5
37	KIT, FREEWHEEL CLUTCH	6839620	1	1	2	3
38	PLATE, SPRING RETAINER, USE 6831377 SPRING . . .	6837980	1	1	2	3
	RETAINER PLATE PRIOR TO S/N 1405. FOR ASSY 6778502, 6778503, 6778504, 6778506, 6831887 AND 6837861 FROM S/N 1406-5250 ONLY USE 6833503 SPRING RETAINER PLATE, FREEWHEEL CLUTCH KIT 6839620 MAY BE USED IN PLACE OF 6831377 OR 6833503 PLATE. FREEWHEEL CLUTCH KIT 6839620 CONSISTS OF 1-6883982 CAGE, 3-6838744 SPRINGS, 1-6837980 PLATE, 1-23013493 CAM, 21-7451288 ROLLERS, 3- 6838745 PINS AND 1-6839622 INSTRUCTION SHEET.					
39	PIN, TICKLE SPRING	6838745	3	3	6	12

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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP M CONT

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

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
40	SPRING, TICKLE, USE 3-6756907 SPRINGS PRIOR TO S/N 1405. FOR ASSY 6778502, 6778503, 6778504, 6778506, 6831887 AND 6837861 FROM S/N 1406-5250 ONLY USE 14-6833228 SPRINGS. FREEWHEEL CLUTCH KIT 6839620 MAY BE USED IN PLACE OF 6756907 OR 6833228 SPRING. FREEWHEEL CLUTCH KIT 6839620 CONSISTS OF 1-6883982 CAGE, 3-6838744 SPRINGS, 1-6837980 PLATE, 1-23013493 CAM, 21-7451288 ROLLERS, 3-6838745 PINS AND 1-6839622 INSTRUCTION SHEET.	6838744	3	3	6	12
41	CAGE, ROLLER, FREEWHEEL, REPLACE 1-6833354 . . . CAGE OR 1-6833866 CAGE WITH 1-6839620 FREEWHEEL CLUTCH KIT. FREEWHEEL CLUTCH KIT 6839620 CONSISTS OF 1-6883982 CAGE, 3-6838744 SPRINGS, 1-6837980 PLATE, 1-23013493 CAM, 21-7451288 ROLLERS, 3-6838745 PINS AND 1-6839622 INSTRUCTION SHEET.	6883982	1	1	2	4
42	ROLLER, FREEWHEEL	7451288	21	21	42	84
43	CAM, FREEWHEEL, REPLACE 1-6778230 CAM OR 1-6834001 CAM WITH 1-6839620 FREEWHEEL CLUTCH KIT. FREEWHEEL CLUTCH KIT 6839620 CONSISTS OF 1-6883982 CAGE, 3-6838744 SPRING, 1-6837980 PLATE, 1-23013493 CAM, 21-7451288 ROLLERS, 3-6838745 PINS AND 1-6839622 INSTRUCTION SHEET.	23013493	1	1	2	3
44	BOLT, SQ HD, 3/8-24 X 3 1/2	6775638	21	21	42	63

GROUP N

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

3	GEAR ASSY, SECOND TURBINE DRIVEN	6884932	1		1	2
4	GEAR, SECOND TURBINE DRIVEN	6838707 *	1			
5	BUSHING	6884908	1	1	2	4
6-13	NOT USED IN THIS GROUP					
36	BEARING, SINGLE ROW BALL, ND3L10L1214A	907692	1	1	2	5
37	KIT, FREEWHEEL CLUTCH	6839620	1	1	2	3
38	PLATE, SPRING RETAINER, USE 6831377 SPRING . . . RETAINER PLATE PRIOR TO S/N 1405. FOR ASSY 6778502, 6778503, 6778504, 6778506, 6831887 AND 6837861 FROM S/N 1406-5250 ONLY USE 6833503 SPRING RETAINER PLATE, FREEWHEEL CLUTCH KIT 6839620 MAY BE USED IN PLACE OF 6831377 OR 6833503 PLATE. KIT 6839620 CONSISTS OF 1-6883982 CAGE, 3-6838744 SPRINGS, 1-6837980 PLATE, 1-23013493 CAM, 21-7451288 ROLLERS, 3-6838745 PINS AND 1-6839622 INSTRUCTION SHEET.	6837980	1	1	2	3
39	PIN, TICKLE SPRING	6838745	3	3	6	12
40	SPRING, TICKLE, USE 3-6756907 SPRINGS PRIOR TO S/N 1405. FOR ASSY 6778502, 6778503, 6778504, 6778506, 6831887 AND 6837861 FROM S/N 1406-5250 ONLY USE 14-6833228 SPRINGS. FREEWHEEL CLUTCH KIT 6839620 MAY BE USED IN PLACE OF	6838744	3	3	6	12

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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP N CONT

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

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
	6756907 OR 6833228 SPRING. FREEWHEEL CLUTCH KIT 6839620 CONSISTS OF 1-6883982 CAGE, 3-6838744 SPRINGS, 1-6837980 PLATE, 1- 23013493 CAM, 21-7451288 ROLLERS, 3-6838745 PINS AND 1-6839622 INSTRUCTION SHEET.					
41	CAGE, ROLLER, FREEWHEEL, REPLACE 1-6833354 . . . CAGE OR 1-6833866 CAGE WITH 1-6839620 FREEWHEEL CLUTCH KIT. FREEWHEEL CLUTCH KIT 6839620 CONSISTS OF 1-6833982 CAGE, 3- 6838744 SPRINGS, 1-6837980 PLATE, 1-23013493 CAM, 21-7451288 ROLLERS, 3-6838745 PINS AND 1-6839622 INSTRUCTION SHEET.	6883982	1	1	2	4
42	ROLLER, FREEWHEEL	7451288	21	21	42	63
43	CAM, FREEWHEEL, REPLACE 1-6778230 CAM OR 1- . . 6834001 CAM WITH 1-6839620 FREEWHEEL CLUTCH KIT. FREEWHEEL CLUTCH KIT 6839620 CONSISTS OF 1-6883982 CAGE, 3-6838744 SPRINGS, 1- 6837980 PLATE, 1-23013493 CAM, 21-7451288 ROLLERS, 3-6838745 PINS AND 1-6839622 INSTRUCTION SHEET	23013493	1	1	2	3
44	BOLT, SQ HD, 3/8-24 X 3 1/2	6775638	21	21	42	63

GROUP P

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

3	GEAR ASSY, SECOND TURBINE DRIVEN	6884932	1		1	2
4	GEAR, SECOND TURBINE DRIVEN	6838707 *	1			
5	BUSHING	6884908	1	1	2	4
3-13	NOT USED IN THIS GROUP					
14	GEAR, FIRST TURBINE DRIVEN	6778234	1		1	2
22-35	NOT USED IN THIS GROUP					
36	BEARING, SINGLE ROW BALL, ND3L10C1214A	907692	1	1	2	5
37	KIT, FREEWHEEL CLUTCH	6839620	1	1	2	3
38	PLATE, SPRING, RETAINER	6837980	1	1	2	3
39	PIN, TICKLE SPRING, FREEWHEEL	6838745	3	3	6	12
40	SPRING, TICKLE, FREEWHEEL	6838744	3	3	6	12
41	CAGE, ROLLER, FREEWHEEL	6883982	1	1	2	4
42	ROLLER, FREEWHEEL	7451288	21	21	42	63
43	CAM, FREEWHEEL	23013493	1	1	2	4
44	BOLT, SQ HD, 3/8-24 X 3 1/2	6775638	21	21	42	63

GROUP Q

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

3-13	NOT USED IN THIS GROUP					
14	GEAR, FIRST TURBINE DRIVEN	6778234	1		1	2
22-32	NOT USED IN THIS GROUP					
33	GEAR ASSY, SECOND TURBINE DRIVEN	6839506	1			1
34	GEAR, SECOND TURBINE DRIVEN	6838773 *	1			
35	PLUG, DRIFICE	6839507	1	1	2	4

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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP Q CONT

TURBINE DRIVEN GEARS AND FREEWHEEL UNIT, FIGURE 6

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
36	BEARING, SINGLE ROW BALL, ND 3L10L 1214A	907692	1	1	2	5
37	KIT, FREEWHEEL CLUTCH	6839620	1	1	2	3
38	PLATE, SPRING RETAINER	6837980	1	1	2	3
39	PIN, TICKLE SPRING, FREEWHEEL	6838745	3	3	6	12
40	SPRING, TICKLE, FREEWHEEL	6838744	3	3	6	12
41	CAGE, ROLLER, FREEWHEEL	6883982	1	1	2	4
42	ROLLER, FREEWHEEL	7451288	21	21	42	84
43	CAM, FREEWHEEL	23013493	1	1	2	4
44	BOLT, SQ HD, 3/8-24 X 3 1/2	6775638	21	21	42	63

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

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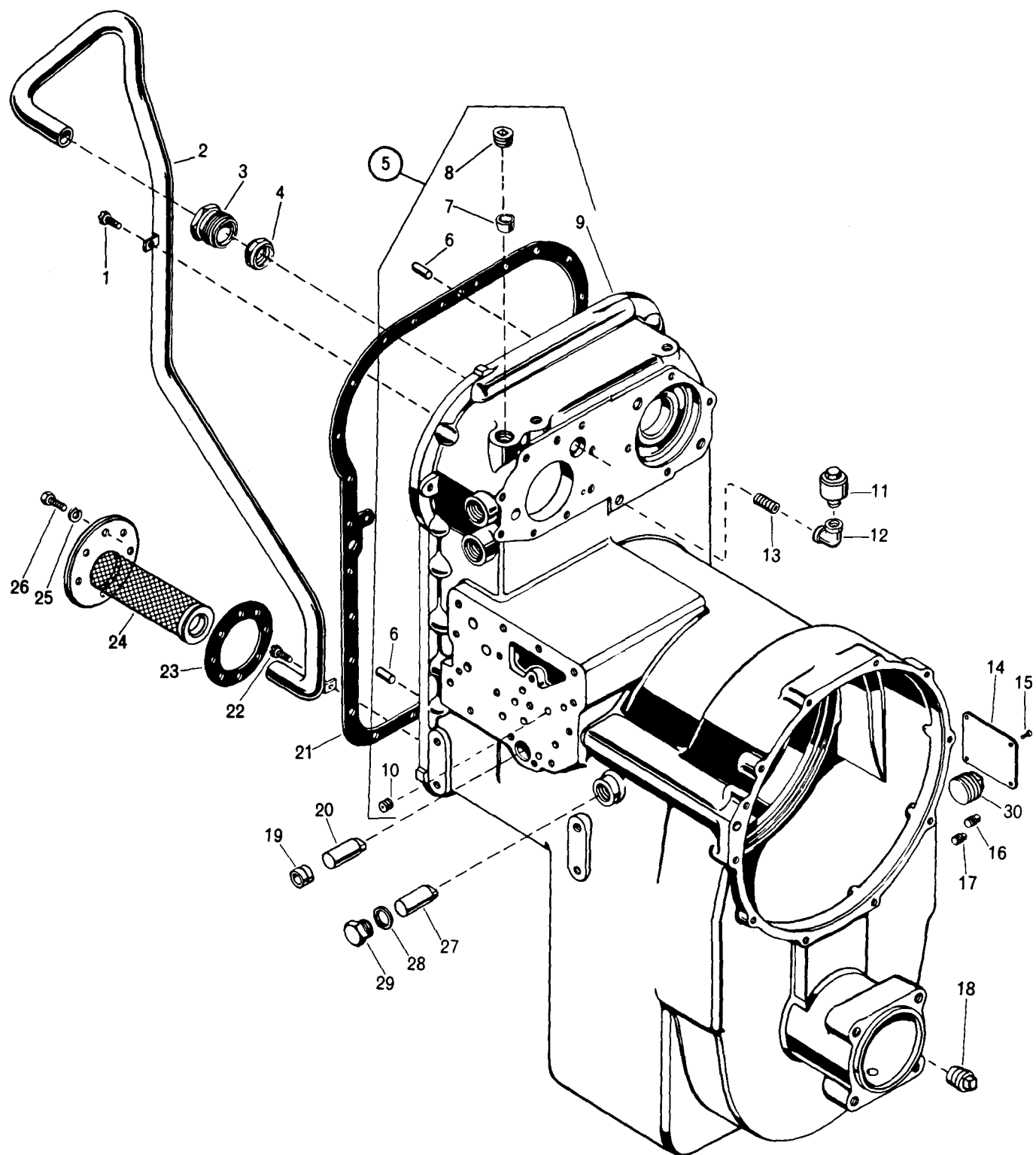
* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE

TRANSMISSION HOUSING SECTION

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

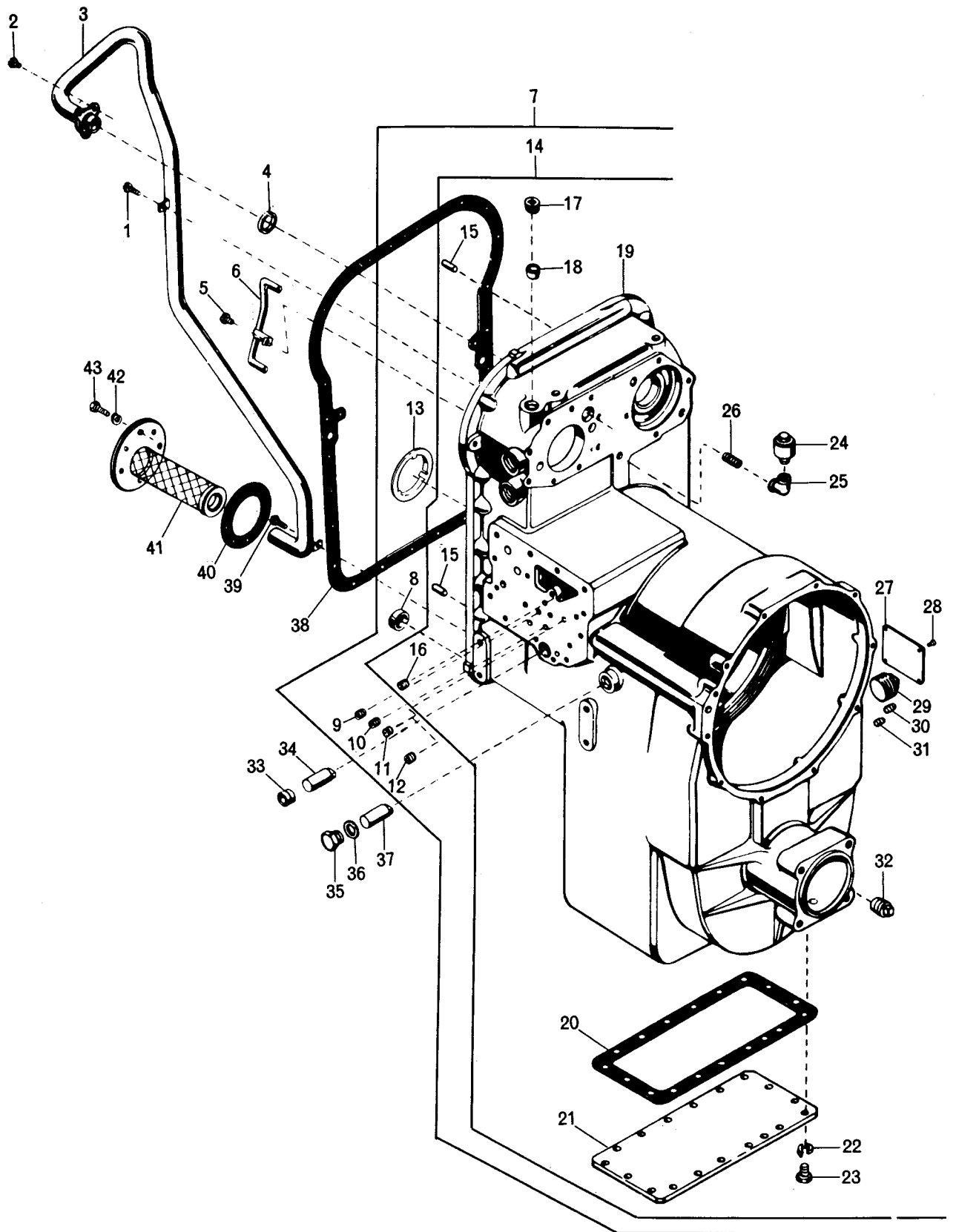
A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
23011479	TRT 4821-1	F	23011492	TT 4721-1	E
23011480	TRT 4821-1	F	23011493	TT 4721-1	E
23011481	TRT 4821-1	F	23011494	TRT 4821-1	F
23011482	TRT 4821-1	F	23011534	TRT 4820-1	F
23011483	TRT 4821-1	F	23012060	TRT 4821-1	F
23011484	TRT 4821-1	F	23012247	TRT 4820-1	F
23011485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

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



4309C

FIG. 7. TRANSMISSION HOUSING



10652E

FIG. 7-1. TRANSMISSION HOUSING

GROUP A

TRANSMISSION HOUSING, FIGURE 7

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	BOLT, HX HD, SELF-LOCKING 3/8-16 X 3/4	9409027	1	1	2	3
2	TUBE, SUCTION	6778517	1		1	2
3	NUT, MALE, SUCTION TUBE	6777322	1		1	2
4	RING, SEAL, SUCTION TUBE	6777323	1	1	3	10
5	HOUSING ASSEMBLY, TRANSMISSION, SEE SPI 653	6831357	1			1
6	PIN, DOWEL	141281	2		2	4
7	PLUG	6777173	1	1	2	3
8	PLUG	444672	1	1	2	3
9	HOUSING, TRANSMISSION, SEE SPI 653	6831352	*	1		
10	NOT USED IN THIS GROUP.					
11	BREATHER	6774565	1		1	2
12	ELBOW	105413	1	1	2	3
13	NIPPLE	105407	1	1	2	3
14	PLATE, NAME	6838494	1		1	2
15	SCREW, DRIVE, NO. 4 X 1/4	145372	4		4	8
16	PLUG, OIL LEVEL FULL	444618	1	1	2	3
17	PLUG, OIL LEVEL ADD	444618	1	1	2	3
18	PLUG, DRAIN, SQ HD, PIPE, 3/4	444594	1	1	2	3
19	SPACER	6830335	1		1	2
20	PIN, ANCHOR	6776503	1		1	2
21	GASKET, TRANSMISSION HOUSING	6778518	1	1	3	10
22	BOLT, HX HD, SELF-LOCKING 3/8-16 X 3/4, USE 9409259 BOLT PRIOR TO S/N 2091	9409027	1	1	2	3
23	GASKET, STRAINER	6882702	1	1	3	10
24	STRAINER ASSY, OIL	6777318	1	1	2	4
25	WASHER, LOCK, 3/8	103321	6	6	12	18
26	BOLT, HX HD, 3/8-16 X 7/8	179838	6	6	12	18
27	NOT USED IN THIS GROUP					
28	GASKET	6701353	1	1	3	10
29	PLUG	6773618	1		1	2
30	PLUG, FILLER HOLE PLUG, 1 1/4	143938	*	1		

GROUP B

TRANSMISSION HOUSING, FIGURE 7

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

5	HOUSING ASSY, TRANSMISSION	6778266	1			1
9	HOUSING, TRANSMISSION	6778267	*	1		
10	PLUG, ORIFICE	6830511	1	1	2	3
27	PIN, ANCHOR	6776503	1		1	2

GROUP C

TRANSMISSION HOUSING, FIGURE 7

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

5	HOUSING ASSY, TRANSMISSION	6832952	1			1
9	HOUSING, TRANSMISSION	6832950	*	1		

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP D

TRANSMISSION HOUSING, FIGURE 7

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	HOUSING ASSY, TRANSMISSION	6832951	1			1
9	HOUSING, TRANSMISSION	6832949	*	1	2	3
10	PLUG, ORIFICE	6830511	1		1	2
27	PIN, ANCHOR	6776503	1			2

GROUP E

TRANSMISSION HOUSING, FIGURE 7-1

1	BOLT, HX HD, SELF-LOCKING, 3/8-16 X 3/4	9409027	1	1	2	3
2	BOLT, HX HD, SELF-LOCKING, 3/8-16 X 3/4	9409027	3	3	6	9
3	TUBE ASSY, OIL SUCTION	6838729	1		1	2
4	RING, SEAL, SUCTION TUBE	6838732	1	1	3	10
5	BOLT, HX HD, SELF-LOCKING, 3/8-16 X 3/4	9409027	1	1	2	3
6	TUBE ASSY, PRESSURE LUBE	6883980	1		1	2
7	KIT, TRANSMISSION HOUSING ASSY.	6882630	1 KIT			1
8	CAP, SHIFTER SHAFT HOLE	6774572	1		1	2
9	PLUG, SCREW	102603	1	1	2	3
10	PLUG, ORIFICE	444687	1	1	2	3
11	PLUG, ORIFICE	6838808	1	1	2	3
12	PLUG, SCREW	102603	1	1	2	3
13	WASHER, THRUST, USE 23010344 WASHER WITH 23010343 HOUSING OR 23011863 HOUSING ASSY ONLY. DO NOT USE WASHER WITH OLD HOUSING.	23010344	1	2	4	6
14	HOUSING ASSY, TRANSMISSION	23011863	*	10000		
15	PIN, DOWEL	141281		10000	2	4
16	PLUG, REFERENCE SPI 18TR75	445751	*	10000		1
17	PLUG	444672	1	1	2	3
18	PLUG	6777173	1	1	2	3
19	HOUSING, TRANSMISSION	23010343	*	1		
20	GASKET, SUMP COVER	6884502	1	1	3	10
21	COVER, SUMP	6882156	1	1	2	3
22	WASHER, LOCK, 3/8	103321	18	18	36	72
23	BOLT, HX HD, 3/8-16 X 1	179839	18	18	36	72
24	BREATHER	6774565	1		1	2
25	ELBOW	105413	1	1	2	3
26	NIPPLE	105407	1	1	2	3
27	PLATE, NAME	6838494	1		1	2
28	SCREW, DRIVE, NO. 4 X 1/4	145372	4		4	8
29	PLUG, FILLER HOLE PLUG, 1 1/4	143938	*	1		
30	PLUG, OIL LEVEL FULL	444618	1	1	2	3
31	PLUG, OIL LEVEL ADD	444618	1	1	2	3
32	PLUG, DRAIN, SQ HD PIPE, 3/4	444594	1	1	2	3
33	SPACER, NOT USED IN 6881800 OR 23010343 TRANSMISSION HOUSING	6830335	1		1	2
34	PIN, ANCHOR, NOT USED IN 6881800 OR 23010343 TRANSMISSION HOUSING	6776503	1		1	2
34	PIN, ANCHOR, USED IN 6881800 OR 23010343 TRANSMISSION HOUSING	6883971	1		1	2
35	PLUG	6773618	1	1	3	10
36	GASKET	6701353	1		1	2
37	NOT USED IN THIS GROUP					
38	GASKET, TRANSMISSION HOUSING	6778518	1	1	3	10
39	BOLT, HX HD, SELF-LOCKING, 3/8-16 X 3/4	9409027	1	1	2	3
40	GASKET, STRAINER	6882702	1	1	3	10
41	STRAINER ASSY, OIL	6838733	1	1	2	4

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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP F

TRANSMISSION HOUSING, FIGURE 7-1

SAME AS GROUP E, EXCEPT FOR PARTS LISTED BELOW

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
36	PIN, ANCHOR	6776503	1		1	2

REVERSE CLUTCH AND PLANETARY 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	A
6778504	TRT4420-1	B	6838932	TRT 4621-1	C
6778505	TT4420-1	A	6839015	TT 4420-1	A
6778506	TRT4621-1	C	6839016	TRT 4420-1	B
6778850	TRT4420-1	B	6839066	TRT 4420-1	B
6778851	TRT4420-1	B	6839529	TT 4720-1	D
6779472	TRT4420-1	B	6839530	TT 4720-1	D
6779473	TRT4420-1	B	6839531	TT 4720-1	D
6779787	TRT4621-1	C	6839532	TT 4720-1	D
6779877	TRT4420-1	B	6839533	TT 4720-1	D
6830564	TRT4621-1	C	6839535	TRT 4820-1	E
6830580	TRT4420-1	B	6839536	TRT 4820-1	E
6830653	TRT4621-1	C	6839537	TRT 4820-1	E
6830694	TT4420-1	A	6839538	TRT 4820-1	E
6830749	TRT4621-1	C	6839606	TRT 4621-1	C
6830750	TRT4621-1	C	6839751	TRT 4620-1	B
6831146	TT4420-1	A	6839827	TRT 4820-1	E
6831386	TT 4420-1	A	6839828	TT 4720-1	D
6831397	TRT4621-1	C	6839934	TRT 4820-1	E
6831802	TRT 4420-1	B	6880119	CRT 4420-1	C
6831832	TRT 4620-1	B	6880580	TT 4720-1	D
6831834	TRT 4420-1	B	6880637	TRT 4820-1	E
6831887	TRT 4420-1	B	6880651	TRT 4820-1	E
6832150	TRT 4621-1	C	6880821	TRT 4820-1	E
6832151	TRT 4420-1	B	6880963	TRT 4820-1	E
6832448	TT 4420-1	A	6881065	TRT 4820-1	E
6832449	TRT 4420-1	B	6881422	TRT 4820-1	E
6832600	TRT 4621-1	C	6881432	TRT 4820-1	E
6832690	TRT 4621-1	C	6881444	TRT 4820-1	E
6833334	TT 4420-1	A	6881811	TRT 4820-1	E
6833387	TRT 4620-1	B	6882364	TRT 4620-1	E
6834142	TT 4420-1	A	6882740	TT 4820-1	E
6834832	TT 4420-1	A	6883301	TT 4720-1	D
6834954	TRT 4420-1	B	6883512	TRT 4820-1	E
6835026	TT 4420-1	A	6883569	TT 4720-1	D
6835208	TRT 4420-1	B	6883590	TRT 4620-1	E
6835617	TRT 4420-1	B	6883992	TRT 4820-1	E
6835686	TRT 4420-1	B	6884285	TRT 4820-1	E
6835828	TT 4420-1	A	6885375	TRT 4620-1	E
6835991	TT 4420-1	A	6885409	TRT 4820-1	E
6836187	TRT 4621-1	C	6885527	TT 4720-1	D
6836629	TRT 4621-1	C	6885541	TRT 4820-1	E
6836795	TRT 4621-1	C	23010838	TT 4720-1	D
6836975	TRT 4621-1	C	23010839	TT 4720-1	D
6836987	TT 4420-1	A	23010840	TRT 4820-1	E
6837148	TRT 4621-1	C	23011460	TRT 4820-1	E
6837245	TRT 4621-1	C	23011461	TRT 4820-1	E
6837680	TRT 4620-1	B	23011477	TRT 4821-1	G
6837861	TRT 4621-1	C	23011478	TRT 4821-1	G

CONTINUED ON NEXT PAGE

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

REVERSE CLUTCH AND PLANETARY 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	F
23011480	TRT 4821-1	G	23011493	TT 4721-1	F
23011481	TRT 4821-1	G	23011494	TRT 4821-1	G
23011482	TRT 4821-1	G	23011534	TRT 4820-1	E
23011483	TRT 4821-1	G	23012060	TRT 4821-1	G
23011484	TRT 4821-1	G	23012247	TRT 4820-1	E
23011485	TRT 4821-1	G	23012398	TRT 4821-1	G
23011486	TRT 4821-1	G	23012399	TT 4721-1	F
23011487	TRT 4821-1	G	23012400	TRT 4821-1	G
23011488	TRT 4821-1	G	23012401	TRT 4821-1	G
23011489	TT 4721-1	F	23012481	TRT 4820-1	E
23011490	TT 4721-1	F	23012683	TRT 4821-1	G
23011491	TT 4721-1	F	23012781	TRT 4821-1	G

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

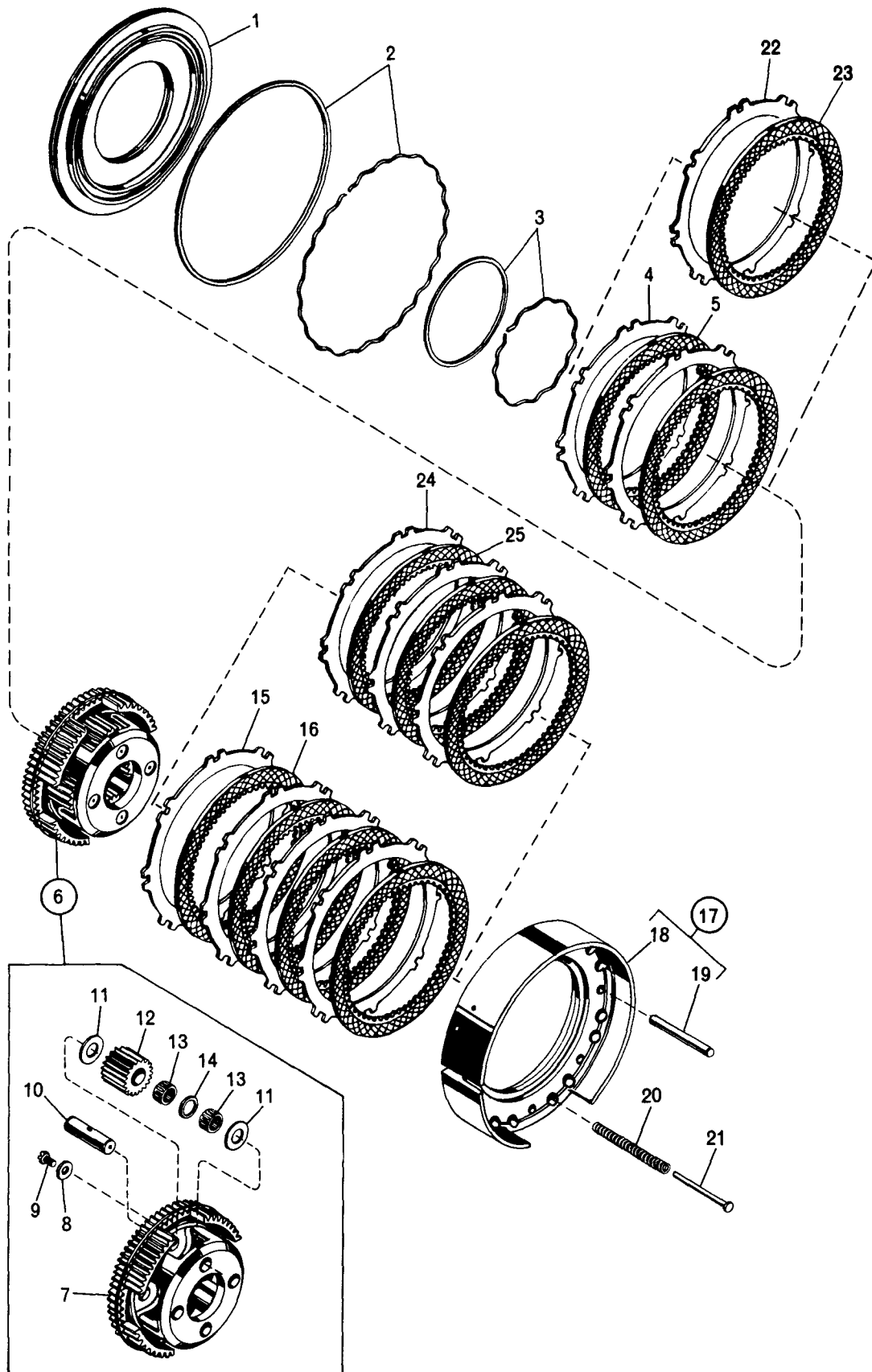
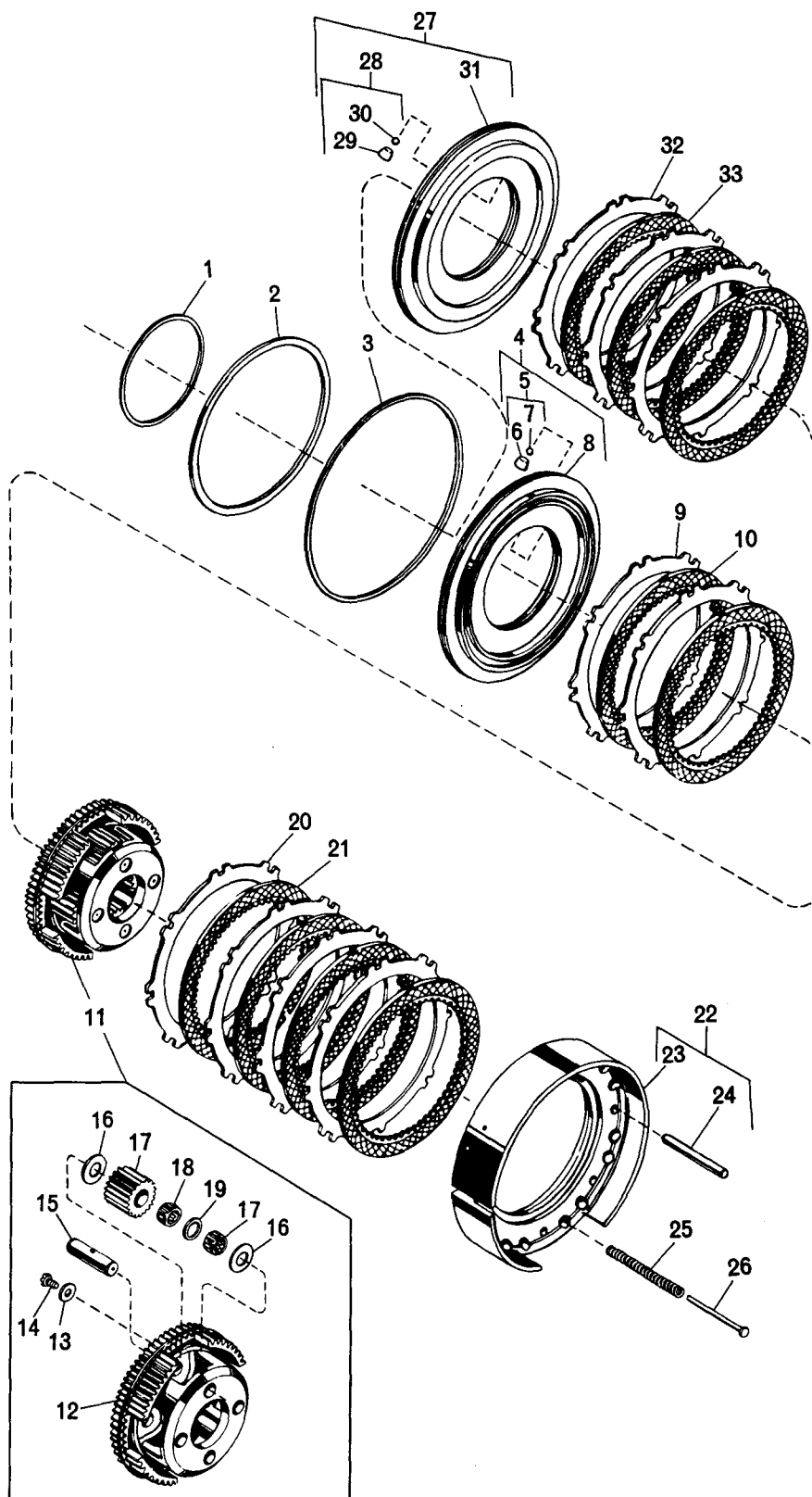


FIG. 8. REVERSE CLUTCH AND PLANETARY



10683A

FIG. 8-1. REVERSE CLUTCH AND PLANETARY

GROUP A

REVERSE CLUTCH AND PLANETARY, FIGURE 8

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	PISTON, REVERSE CLUTCH	6778519	1		1	2
2	KIT, SEAL AND EXPANDER CONSISTS OF 1-6776401	6777952	1	1	3	10
	SEALRING, 1-6776478 EXPANDER AND 1-6777057					
	INSTRUCTION SHEET					
3	KIT, SEAL AND EXPANDER CONSISTS OF 1-6774344	6776998	1	1	3	10
	SEALRING, 1-6776750 EXPANDER AND 1-6777057					
	INSTRUCTION SHEET					
4-5	NOT USED IN THIS GROUP.					
6	CARRIER ASSY, REVERSE CLUTCH PLANETARY	6778237	1			1
7	CARRIER, REVERSE CLUTCH PLANETARY	6778099	1		1	2
8	WASHER	6778243	4		4	8
9	BOLT, HX HD, 3/8-24 X 1/2	9409125	4		4	8
10	SPINDLE	6778239	4		4	8
11	WASHER, THRUST	6830225	8		8	16
12	PINION, PLNT MATCHED SET OF 4 PINIONS	6777955	1 SET		1	2
13	BEARING, ROLLER TORRINGTON WJ-162112	9422966	8		8	16
14	SPACER	6778238	4		4	8
15-16	NOT USED IN THIS GROUP.					
17	ANCHOR ASSY, REVERSE AND FORWARD CLUTCH	6778332	1			1
18	ANCHOR, REVERSE AND FORWARD CLUTCH	6778324 *	1			
19	PIN	6778296	8		8	16
20	SPRING, PISTON RETURN	6775437	15		15	30
21	PIN, PISTON RETURN	6830649	15		15	30
22	PLATE, EXTERNAL SPLINED	6776092	1	1	2	4
23	PLATE, INTERNAL SPLINED	23010123	1	1	2	4
24	PLATE, EXTERNAL SPLINED	6776092	3	3	6	12
25	PLATE, INTERNAL SPLINED	23010123	3	3	6	12

GROUP B

REVERSE CLUTCH AND PLANETARY, FIGURE 8

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

15	PLATE, EXTERNAL SPLINED	6776092	4	4	8	16
16	PLATE, INTERNAL SPLINED	23010123	4	4	8	16
17	ANCHOR ASSY, REVERSE AND FORWARD CLUTCH	6778245	1			1
18	ANCHOR, REVERSE AND FORWARD CLUTCH	6778246 *	1			
24-25	NOT USED IN THIS GROUP.					

GROUP C

REVERSE CLUTCH AND PLANETARY, FIGURE 8

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

1	PISTON, REVERSE CLUTCH	6778538	1		1	2
4	PLATE, EXTERNAL SPLINED	6776092	2	2	4	8
5	PLATE, INTERNAL SPLINED	23010123	2	2	4	8
15	PLATE, EXTERNAL SPLINED	6776092	4	4	8	16
16	PLATE, INTERNAL SPLINED	23010123	4	4	8	16
17	ANCHOR ASSY, REVERSE AND FORWARD CLUTCH	6778245	1			1
18	ANCHOR, REVERSE AND FORWARD CLUTCH	6778246 *	1			
22-25	NOT USED IN THIS GROUP.					

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP D

REVERSE CLUTCH AND PLANETARY, FIGURE 8-1

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	RING, SEAL, LIP TYPE, INSIDE	6832531	1	1	3	10
2	RING, SEAL, LIP TYPE, CENTER	6838063	1	1	3	10
3	RING, SEAL, LIP TYPE, OUTSIDE	6838064	1	1	3	10
4	PISTON ASSY, REVERSE CLUTCH	6836759	1		1	2
5	KIT, REVERSE CLUTCH PISTON CHECK BALL AND INSTRUCTION SHEET 6884499	6884500	1	1	3	10
6	RETAINER, REVERSE PISTON CHECK BALL	6837572 *	2			
7	BALL, CHECK, REVERSE PISTON	23010246 *	2			
8	PISTON, REVERSE CLUTCH	6838758 *	1			
9	PLATE, EXTERNAL SPLINED	6839914	2	2	4	8
10	PLATE, INTERNAL SPLINED	23010123	2	2	4	8
11	CARRIER ASSY, REVERSE CLUTCH PLANETARY	6838659	1			1
12	CARRIER, REVERSE CLUTCH PLANETARY	6838661	1		1	2
13	WASHER	6778243	4		4	8
14	BOLT, HX HD, 3/8-24 X 1/2	9409125	4		4	8
15	SPINDLE	6778239	4		4	8
16	WASHER	6830225	8		8	16
17	PINION, PLNT, MATCHED SET OF 4 PINIONS	6777955	1 SET		1	2
18	BEARING, ROLLER, TORRINGTON NO. WJ-162112 . .	9422966	8		8	16
19	SPACER	6778238	4		4	8
20	PLATE, EXTERNAL SPLINED	6839914	4	4	8	16
21	PLATE, INTERNAL SPLINED	23010123	4	4	8	16
22	ANCHOR ASSY, REVERSE AND FORWARD CLUTCH	6838663	1			1
23	ANCHOR, REVERSE AND FORWARD CLUTCH	6838664 *	1			
24	PIN	6838665	8		8	16
25	SPRING, PISTON RETURN	6838677	15		15	30
26	PIN, PISTON RETURN	6838666	15		15	30
27-34	NOT USED IN THIS GROUP					

GROUP E

REVERSE CLUTCH AND PLANETARY, FIGURE 8-1

SAME AS GROUP D, EXCEPT FOR PARTS LISTED BELOW

4-10	NOT USED IN THIS GROUP					
20	PLATE, EXTERNAL SPLINED	6839914	3	3	6	12
21	PLATE, INTERNAL SPLINED	23010123	3	3	6	12
27	PISTON ASSY, REVERSE CLUTCH	6838232	1		1	2
28	KIT, REVERSE CLUTCH PISTON CHECK BALL AND INSTRUCTION SHEET 6884499	6884500	1	1	3	10
29	RETAINER, REVERSE PISTON CHECK BALL	6837572 *	2			
30	BALL, CHECK, REVERSE PISTON	23010246 *	2			
31	PISTON, REVERSE CLUTCH	6838662 *	1			
32	PLATE, EXTERNAL SPLINED	6839914	4	4	8	16
33	PLATE, INTERNAL SPLINED	23010123	4	4	8	16

GROUP F

REVERSE CLUTCH AND PLANETARY, FIGURE 8-1

SAME AS GROUP D, EXCEPT FOR PARTS LISTED BELOW

11	CARRIER ASSY, REVERSE CLUTCH PLANETARY	23013362	1			1
17	PINION, PLNT, MATCHED SET OF 4 PINIONS	6839996	1KIT		1	2
18-19	NOT USED IN THIS GROUP					
34	BEARING	6837599	4	4	8	16

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP G

REVERSE CLUTCH AND PLANETARY, FIGURE 8-1

SAME AS GROUP E, EXCEPT FOR PARTS LISTED BELOW

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
11	CARRIER ASSY, REVERSE CLUTCH PLANETARY	23013362	1			1
17	PINION, PLNT, MATCHED SET OF 4 PINIONS	6839996	1KIT		1	2
18-19	NOT USED IN THIS GROUP					
34	BEARING	6837599	1	4	8	16

FORWARD CLUTCH AND PLANETARY 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	A
6778504	TRT4420-1	B	6838932	TRT 4621-1	C
6778505	TT4420-1	A	6839015	TT 4420-1	A
6778506	TRT4621-1	C	6839016	TRT 4420-1	B
6778850	TRT4420-1	B	6839066	TRT 4420-1	B
6778851	TRT4420-1	B	6839529	TT 4720-1	D
6779472	TRT4420-1	B	6839530	TT 4720-1	D
6779473	TRT4420-1	B	6839531	TT 4720-1	D
6779787	TRT4621-1	C	6839532	TT 4720-1	D
6779677	TRT4420-1	B	6839533	TT 4720-1	D
6830564	TRT4621-1	C	6839535	TRT 4820-1	E
6830580	TRT4420-1	B	6839536	TRT 4820-1	E
6830653	TRT4621-1	C	6839537	TRT 4820-1	E
6830694	TT4420-1	A	6839538	TRT 4820-1	E
6830749	TRT4621-1	C	6839606	TRT 4621-1	C
6830750	TRT4621-1	C	6839751	TRT 4620-1	B
6831146	TT4420-1	A	6839827	TRT 4820-1	E
6831386	TT 4420-1	A	6839828	TT 4720-1	F
6831397	TRT4621-1	C	6839934	TRT 4820-1	E
6831802	TRT 4420-1	B	6880119	CRT 4420-1	G
6831832	TRT 4620-1	B	6880580	TT 4720-1	F
6831834	TRT 4420-1	B	6880637	TRT 4820-1	E
6831887	TRT 4420-1	B	6880651	TRT 4820-1	E
6832150	TRT 4621-1	C	6880821	TRT 4820-1	E
6832151	TRT 4420-1	B	6880963	TRT 4820-1	E
6832448	TT 4420-1	A	6881065	TRT 4820-1	E
6832449	TRT 4420-1	B	6881422	TRT 4820-1	E
6832600	TRT 4621-1	C	6881432	TRT 4820-1	E
6832690	TRT 4621-1	C	6881444	TRT 4820-1	E
6833334	TT 4420-1	A	6881811	TRT 4820-1	E
6833387	TRT 4620-1	B	6882364	TRT 4820-1	E
6834142	TT 4420-1	A	6882740	TT 4820-1	E
6834832	TT 4420-1	A	6883301	TT 4720-1	D
6834954	TRT 4420-1	B	6883512	TRT 4820-1	E
6835026	TT 4420-1	A	6883569	TT 4720-1	D
6835208	TRT 4420-1	B	6883590	TRT 4820-1	E
6835617	TRT 4420-1	B	6883992	TRT 4820-1	E
6835686	TRT 4420-1	B	6884285	TRT 4820-1	E
6835828	TT 4420-1	A	6885375	TRT 4820-1	E
6835991	TT 4420-1	A	6885405	TRT 4820-1	E
6836187	TRT 4621-1	C	6885527	TT 4720-1	D
6836629	TRT 4621-1	C	6885541	TRT 4820-1	E
6836795	TRT 4621-1	C	23010838	TT 4720-1	F
6836975	TRT 4621-1	C	23010839	TT 4720-1	D
6836987	TT 4420-1	A	23010840	TRT 4820-1	E
6837148	TRT 4621-1	C	23011460	TRT 4820-1	E
6837245	TRT 4621-1	C	23011461	TRT 4820-1	E
6837680	TRT 4620-1	B	23011477	TRT 4821-1	E
6837861	TRT 4420-1	B	23011478	TRT 4821-1	E

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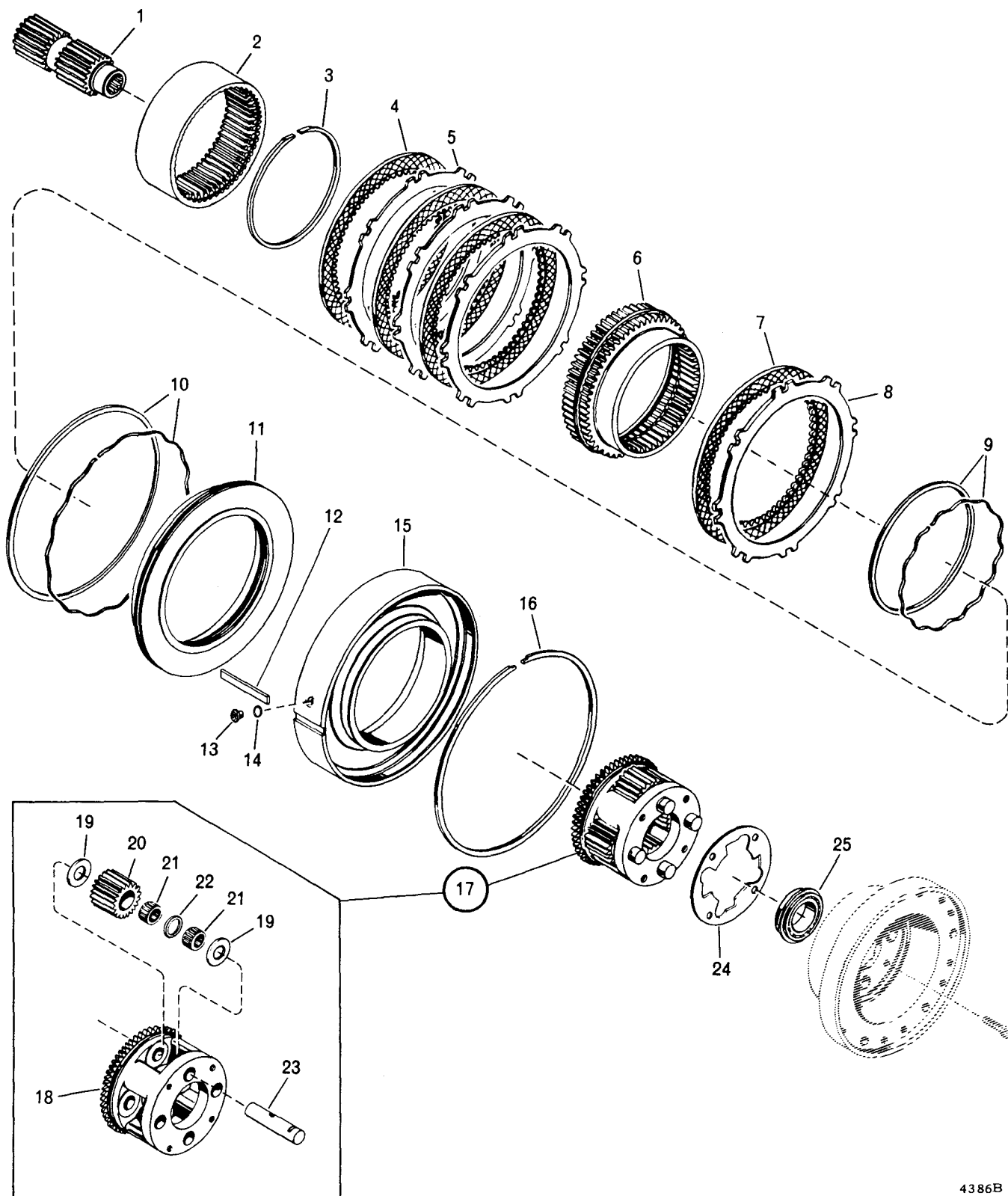
* A/N* - ASSEMBLY NUMBER - FOUND ON YOUR TRANSMISSION NAMEPLATE

FORWARD CLUTCH AND PLANETARY SECTION

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

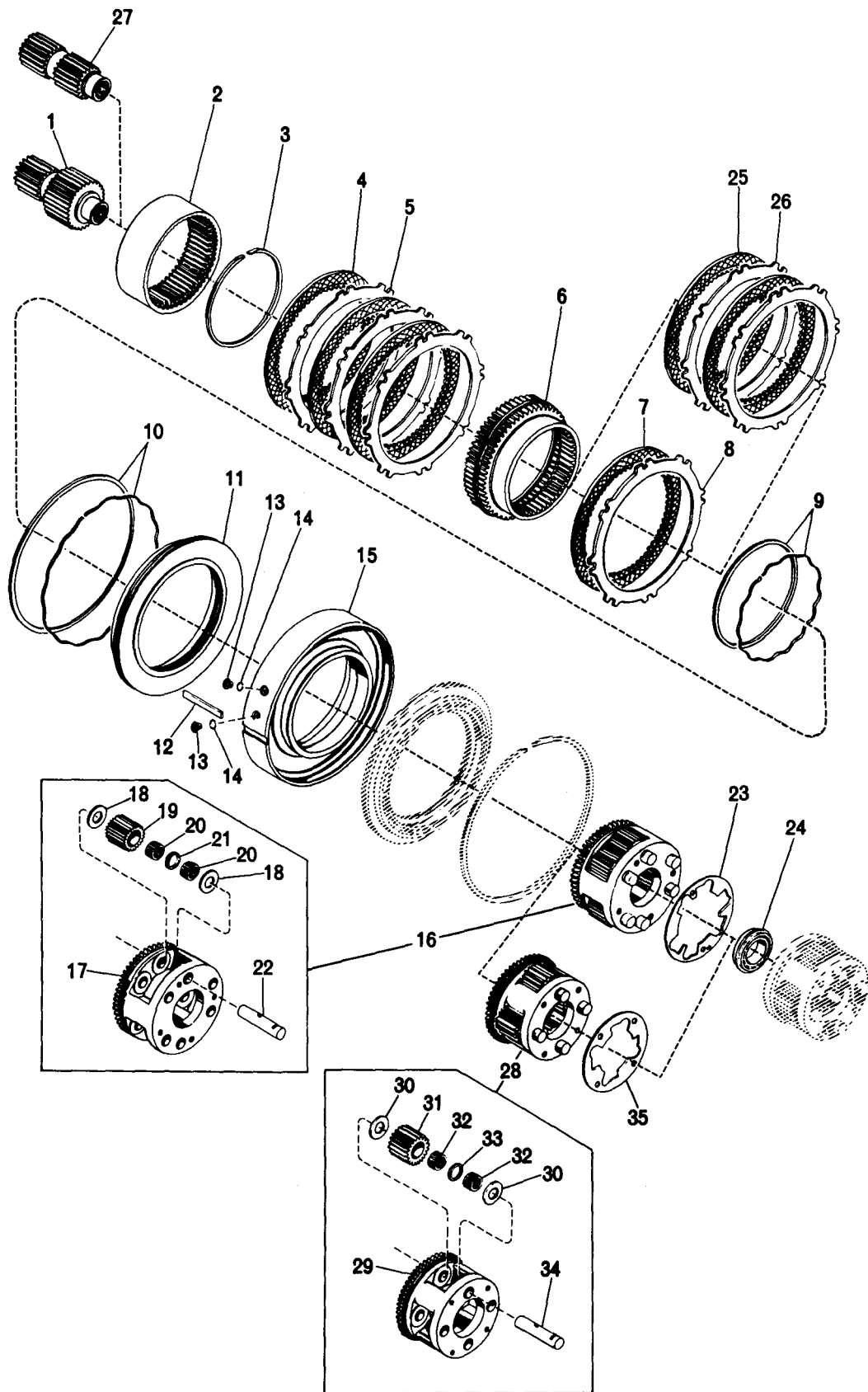
A/N*	MODEL	GROUP	A/N*	MODEL	GROUP
23011479	TRT 4821-1	E	23011492	TT 4721-1	H
23011480	TRT 4821-1	E	23011493	TT 4721-1	H
23011481	TRT 4821-1	E	23011494	TRT 4821-1	E
23011482	TRT 4821-1	E	23011534	TRT 4820-1	E
23011483	TRT 4821-1	E	23012060	TRT 4821-1	E
23011484	TRT 4821-1	E	23012247	TRT 4820-1	E
23011485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

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



4386B

FIG. 9. FORWARD CLUTCH AND PLANETARY



6244A

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FIG. 9-1. FORWARD CLUTCH AND PLANETARY

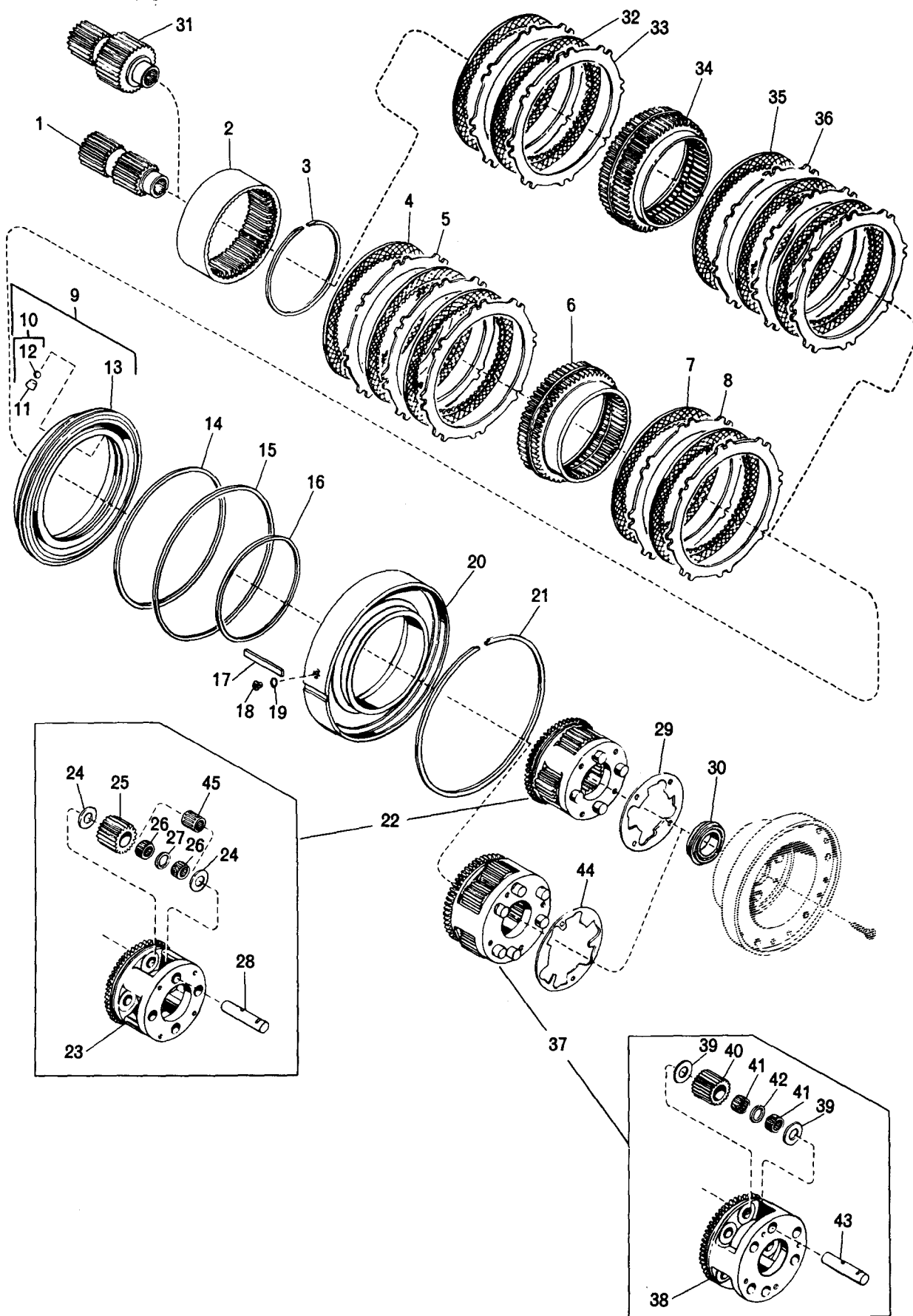
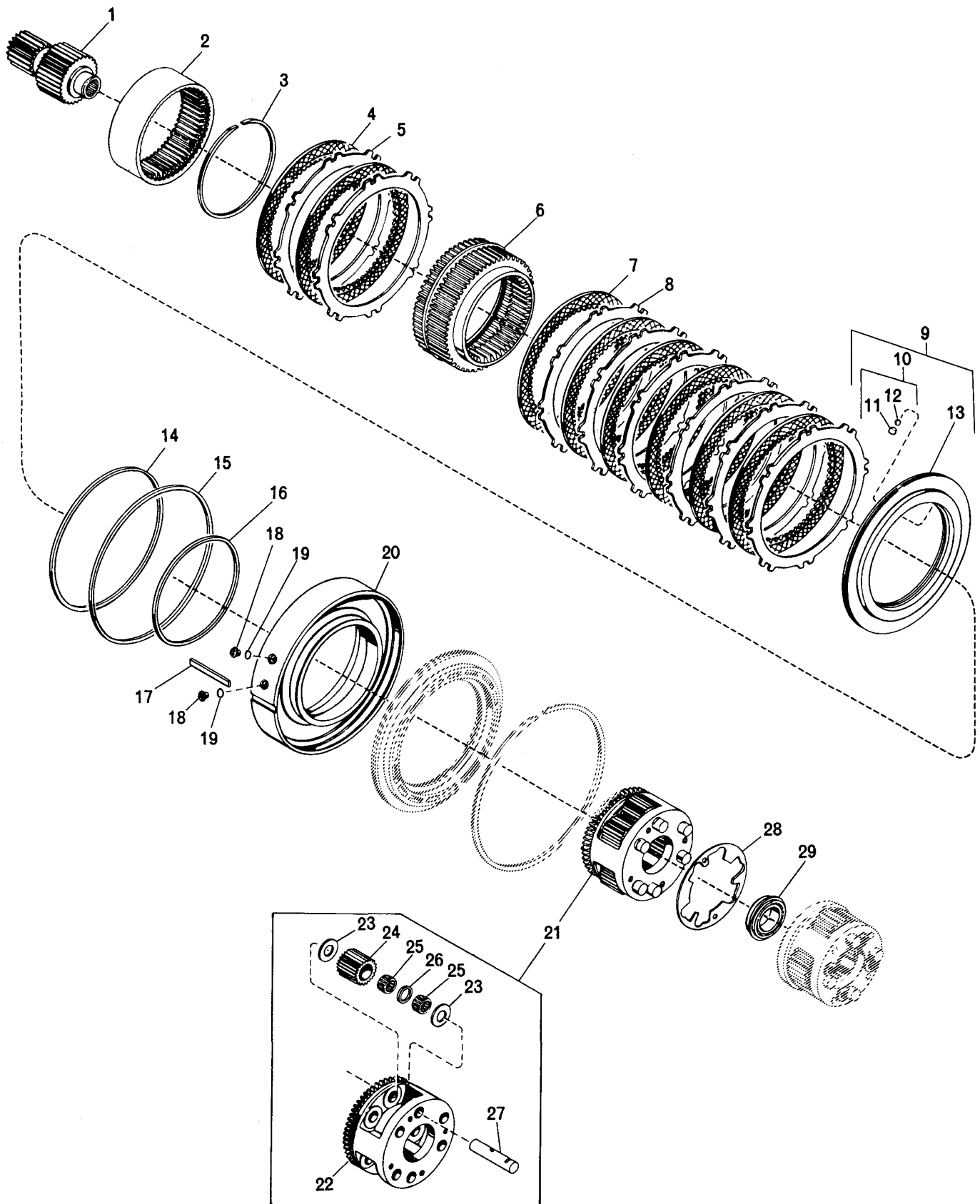


FIG. 9-2. FORWARD CLUTCH AND PLANETARY



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10684B

FIG. 9-3. FORWARD CLUTCH AND PLANETARY

GROUP A

FORWARD CLUTCH AND PLANETARY, FIGURE 9

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	GEAR, FORWARD AND REVERSE CLUTCH SUN	6838772	1		1	2
2	GEAR, REVERSE RING	6838710	1		1	2
3	RING, SNAP	6772327	1	1	2	5
4	PLATE, INTERNAL SPLINED	23010123	3	3	6	12
5	PLATE, EXTERNAL SPLINED	6776092	3	3	6	12
6	GEAR, FORWARD CLUTCH RING	6778330	1		1	2
7	PLATE, INTERNAL SPLINED	23010123	1	1	2	4
8	PLATE, EXTERNAL SPLINED	6776092	1	1	2	4
9	KIT, SEAL AND EXPANDER CONSISTS OF 1-6776483 . . . SEALRING, 1-6774451 EXPANDER AND 1-6777057 INSTRUCTION SHEET	6777954	1	1	3	10
10	KIT, SEAL AND EXPANDER CONSISTS OF 1-6776401 . . . SEALRING, 1-6776478 EXPANDER AND 1-6777057 INSTRUCTION SHEET	6777952	1	1	3	10
11	PISTON, FORWARD CLUTCH	6778323	1		1	2
12	KEY, ANCHOR	6778252	1	1	2	4
13	INSERT, FORWARD CLUTCH HOUSING	6778251	1	1	3	10
14	RING, SEAL, FORWARD CLUTCH HOUSING INSERT	6776477	1	1	3	10
15	HOUSING, FORWARD CLUTCH PISTON	6778322	1		1	2
16	RING, SNAP	6833907	1	1	2	4
17	CARRIER ASSY, FORWARD CLUTCH PLANETARY	6838775	1			1
18	CARRIER, FORWARD CLUTCH PLANETARY	6838771	1		1	2
19	WASHER, THRUST	6830225	6		8	16
20	PINION, PLNT MATCHED SET OF 4 PINIONS	6777955	1 SET		1	2
21	BEARING, ROLLER, TORRINGTON WJ162112	9422966	8		8	16
22	SPACER, BEARING	6778238	4		4	8
23	SPINDLE	6777476	4		4	8
24	PLATE, LOCKING, FORWARD CLUTCH PLANETARY CARRIER SPINDLE	6831255	1		1	2
25	BEARING, SINGLE ROW BALL, ND43L11L1214A	907694	1	1	2	5

GROUP B

FORWARD CLUTCH AND PLANETARY, FIGURE 9-1

1	GEAR, FORWARD AND REVERSE CLUTCH SUN	6838705	1		1	2
2	GEAR, REVERSE RING	6838710	1		1	2
3	RING, SNAP	6772327	1	1	2	5
4	PLATE, INTERNAL SPLINED	23010123	3	3	6	12
5	PLATE, EXTERNAL SPLINED	6776092	3	3	6	12
6	GEAR, FORWARD CLUTCH RING	6777479	1		1	2
7	PLATE, INTERNAL SPLINED	23010123	1	1	2	4
8	PLATE, EXTERNAL SPLINED	6776092	1	1	2	4
9	KIT, SEAL AND EXPANDER CONSISTS OF 1-6776433 . . . SEALRING, 1-6776434 EXPANDER AND 1-6777057 INSTRUCTION SHEET	6777953	1	1	3	10
10	KIT, SEAL AND EXPANDER CONSISTS OF 1-6776401 . . . SEALRING, 1-6776478 EXPANDER AND 1-6777057 INSTRUCTION SHEET	6777952	1	1	3	10
11	PISTON, FORWARD CLUTCH	6778249	1		1	2
12	KEY, ANCHOR	6778252	1	1	2	4
13	INSERT, FORWARD CLUTCH HOUSING	6778251	2	2	6	20
14	RING, SEAL, FORWARD CLUTCH HOUSING INSERT	6776477	2	2	6	20
15	HOUSING, FORWARD AND HIGH CLUTCH PISTON	6830664	1		1	2
16	CARRIER ASSY, FORWARD CLUTCH PLANETARY	6838703	1			1
17	CARRIER, FORWARD CLUTCH PLANETARY	6838704	1		1	2
18	WASHER, THRUST	6830225	12		12	24
19	PINION, PLNT, MATCHED SET OF 6 PINIONS	6777956	1 SET		1	2

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GROUP B CONT

FORWARD CLUTCH AND PLANETARY, FIGURE 9-1

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
20	BEARING, ROLLER, TORRINGTON WJ162112	9422966	12		12	24
21	SPACER, BEARING	6778238	6		6	12
22	SPINDLE	6777476	6		6	12
23	PLATE, LOCKING, FORWARD CLUTCH PLANETARY CARRIER SPINDLE	6830619	1		1	2
24	BEARING, SINGLE ROW BALL, ND43L11L1214A	907694	1	1	2	5
25-26	NOT USED IN THIS GROUP					

GROUP C

FORWARD CLUTCH AND PLANETARY, FIGURE 9-1

SAME AS GROUP B, EXCEPT FOR PARTS LISTED BELOW.

7-8	NOT USED IN THIS GROUP					
11	PISTON, FORWARD CLUTCH	6778539	1		1	2
25	PLATE, INTERNAL SPLINED	23010123	2	2	4	8
26	PLATE, EXTERNAL SPLINED	6776092	2	2	4	8

GROUP D

FORWARD CLUTCH AND PLANETARY, FIGURE 9-2

1	GEAR, FORWARD AND REVERSE CLUTCH SUN	6838772	1		1	2
2	GEAR, REVERSE RING	6838710	1		1	2
3	RING, SNAP	6772327	1	1	2	5
4	PLATE, INTERNAL SPLINED	23010123	3	3	6	12
5	PLATE, EXTERNAL SPLINED	6839914	3	3	6	12
6	GEAR, FORWARD CLUTCH RING	6838767	1		1	2
7	PLATE, INTERNAL SPLINED	23010123	2	2	4	8
8	PLATE, EXTERNAL SPLINED	6839914	2	2	4	8
9	PISTON ASSY, FORWARD CLUTCH	6838761	1		1	2
10	KIT, FORWARD CLUTCH PISTON CHECK BALL AND INSTRUCTION SHEET 6884499	6884500	1	1	3	10
11	RETAINER, FORWARD CLUTCH PISTON CHECK BALL	6837572 *	2			
12	BALL, CHECK, FORWARD CLUTCH	23010246 *	2			
13	PISTON, FORWARD CLUTCH	6838760 *	1			
14	RING, SEAL, LIP TYPE, OUTSIDE	6838064	1	1	3	10
15	RING, SEAL, LIP TYPE, CENTER	6838813	1	1	3	10
16	RING, SEAL, LIP TYPE, INSIDE	6838061	1	1	3	10
17	KEY, ANCHOR	6838747	1	1	2	4
18	INSERT, FORWARD CLUTCH HOUSING	6778251	1	1	3	10
19	RING, SEAL, FORWARD CLUTCH HOUSING	6776477	1	1	3	10
20	HOUSING, FORWARD CLUTCH PISTON	6838776	1		1	2
21	RING, SNAP	6833907	1	1	2	4
22	CARRIER ASSY, FORWARD CLUTCH PLANETARY	6838775	1			1
23	CARRIER, FORWARD CLUTCH PLANETARY	6838771	1		1	2
24	WASHER, THRUST	6830225	8		8	16
25	PINION, PLNT, MATCHED SET OF 4 PINIONS	6777955	1 SET		1	2
26	BEARING, ROLLER, TORRINGTON NO. WJ162112	9422966	8		8	16
27	SPACER, BEARING	6778238	4		4	8
28	SPINDLE	6777476	4		4	8
29	PLATE, LOCKING, FORWARD CLUTCH PLANETARY CARRIER SPINDLE	6831255	1		1	2
30	BEARING, SINGLE ROW BALL, ND43L11L1214A	907694	1	1	2	5
31-45	NOT USED IN THIS GROUP					

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP E

FORWARD CLUTCH AND PLANETARY, FIGURE 9-3

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	GEAR, FORWARD AND REVERSE CLUTCH SUN	6838705	1		1	2
2	GEAR, REVERSE RING	6838710	1		1	2
3	RING, SNAP	6772327	1	1	2	5
4	PLATE, INTERNAL SPLINED	23010123	2	2	4	8
5	PLATE, EXTERNAL SPLINED	6839914	2	2	4	8
6	GEAR, FORWARD CLUTCH RING	6883659	1		1	2
7	PLATE, INTERNAL SPLINED	23010123	6	6	12	24
8	PLATE, EXTERNAL SPLINED	6839914	6	6	12	24
9	PISTON ASSY, FORWARD CLUTCH	6838675	1		1	2
10	KIT, FORWARD CLUTCH PISTON CHECK BALL AND INSTRUCTION SHEET 6884499	6884500	1	1	3	10
11	RETAINER, FORWARD CLUTCH PISTON CHECK BALL	6837572	* 2			
12	BALL, CHECK, FORWARD CLUTCH	23010246	* 2			
13	PISTON, FORWARD CLUTCH	6837674	* 1			
14	RING, SEAL, LIP TYPE, OUTSIDE	6838064	1	1	3	10
15	RING, SEAL, LIP TYPE, CENTER	6838813	1	1	3	10
16	RING, SEAL, LIP TYPE, INSIDE	6838061	1	1	3	10
17	KEY, ANCHOR	6838747	1	1	2	4
18	INSERT, FORWARD CLUTCH HOUSING	6778251	2	2	6	20
19	RING, SEAL, FORWARD CLUTCH HOUSING INSERT	6776477	2	2	6	20
20	HOUSING, FORWARD AND HIGH CLUTCH PISTON	6838667	1		1	1
21	CARRIER ASSY, FORWARD CLUTCH PLANETARY	6838703	1			1
22	CARRIER, FORWARD CLUTCH PLANETARY	6838704	1			1
23	WASHER, THRUST	6830225	12		12	24
24	PINION, PLNT, MATCHED SET OF 6 PINIONS	6777956	1 SET		1	2
25	BEARING, ROLLER, TORRINGTON NO. WJ162112	9422966	12		12	24
26	SPACER, BEARING	6778238	6		6	12
27	SPINDLE	6777476	6		6	12
28	PLATE, LOCKING, FORWARD CLUTCH PLANETARY CARRIER SPINDLE	6830619	1		1	2
29	BEARING, SINGLE ROW BALL, ND43L11L1214A	907694	1	1	2	5

GROUP F

FORWARD CLUTCH AND PLANETARY, FIGURE 9-2

SAME AS GROUP D, EXCEPT FOR PARTS LISTED BELOW

1	NOT USED IN THIS GROUP					
4-8	NOT USED IN THIS GROUP					
22-29	NOT USED IN THIS GROUP					
31	GEAR, FORWARD AND REVERSE CLUTCH SUN	6838705	1		1	2
32	PLATE, INTERNAL SPLINED	23010123	2	2	4	8
33	PLATE, EXTERNAL SPLINED	6839914	2	2	4	8
34	GEAR, FORWARD CLUTCH RING	6883659	1		1	2
35	PLATE, INTERNAL SPLINED	23010123	3	3	6	12
36	PLATE, EXTERNAL SPLINED	6839914	3	3	6	12
37	CARRIER ASSY, FORWARD CLUTCH PLANETARY	6838703	1			1
38	CARRIER, FORWARD CLUTCH PLANETARY	6838704	1		1	2
39	WASHER, THRUST	6830225	12		12	24
40	PINION, PLNT, MATCHED SET OF 6 PINIONS	6777956	1 SET		1	2
41	BEARING, ROLLER, TORRINGTON NO. WJ162112	9422966	12		12	24
42	SPACER, BEARING	6778238	6		6	12
43	SPINDLE	6777476	6		6	12
44	PLATE, LOCKING, FORWARD CLUTCH PLANETARY SPINDLE	6830619	1		1	2

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP G

FORWARD CLUTCH AND PLANETARY, FIGURE 9-1

SAME AS GROUP B, EXCEPT FOR PARTS LISTED BELOW

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	NOT USED IN THIS GROUP					
6	GEAR, FORWARD CLUTCH RING	6778330	1		1	2
7-8	NOT USED IN THIS GROUP					
11	PISTON, FORWARD CLUTCH	6778539	1		1	2
16-23	NOT USED IN THIS GROUP					
25	PLATE, INTERNAL SPLINED	23010123	2	2	4	8
26	PLATE, EXTERNAL SPLINED	6776092	2	2	4	8
27	GEAR, FORWARD AND REVERSE CLUTCH SUN	6838772	1		1	2
28	CARRIER ASSY, FORWARD CLUTCH PLANETARY	6838775	1			1
29	CARRIER, FORWARD CLUTCH PLANETARY	6838771	1		1	2
30	WASHER, THRUST	6830225	6		8	16
31	PINION, PLNT, MATCHED SET OF 4 PINIONS	6777955	1 SET		1	2
32	BEARING, ROLLER, TORRINGTON NO. WJ162112	9422966	8		8	16
33	SPACER, BEARING	6778238	4		4	8
34	SPINDLE	6777476	4		4	8
35	PLATE, LOCKING, FORWARD CLUTCH PLANETARY	6831255	1		1	2
	CARRIER SPINDLE					

GROUP H

FORWARD CLUTCH AND PLANETARY, FIGURE 9-2

SAME AS GROUP D, EXCEPT FOR PARTS LISTED BELOW

22	CARRIER ASSY, FORWARD CLUTCH	23013363	1			1
25	PINION, PLNT, MATCHED SET OF 4 PINIONS	6839996	1KIT		1	2
26-27	NOT USED IN THIS GROUP					
45	BEARING	6837599	4	4	8	16

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

CONTINUED ON NEXT PAGE

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

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR 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	N	23011492	TT 4721-1	L
23011480	TRT 4821-1	N	23011493	TT 4721-1	M
23011461	TRT 4821-1	N	23011494	TRT 4821-1	N
23011462	TRT 4821-1	N	23011534	TRT 4820-1	H
23011483	TRT 4821-1	N	23012060	TRT 4821-1	N
23011484	TRT 4821-1	N	23012247	TRT 4820-1	H
23011485	TRT 4821-1	N	23012398	TRT 4821-1	N
23011486	TRT 4821-1	N	23012399	TT 4721-1	M
23011487	TRT 4821-1	N	23012400	TRT 4821-1	N
23011488	TRT 4821-1	N	23012401	TRT 4821-1	N
23011489	TT 4721-1	L	23012481	TRT 4820-1	H
23011490	TT 4721-1	L	23012683	TRT 4821-1	N
23011491	TT 4721-1	L	23012781	TRT 4821-1	N

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

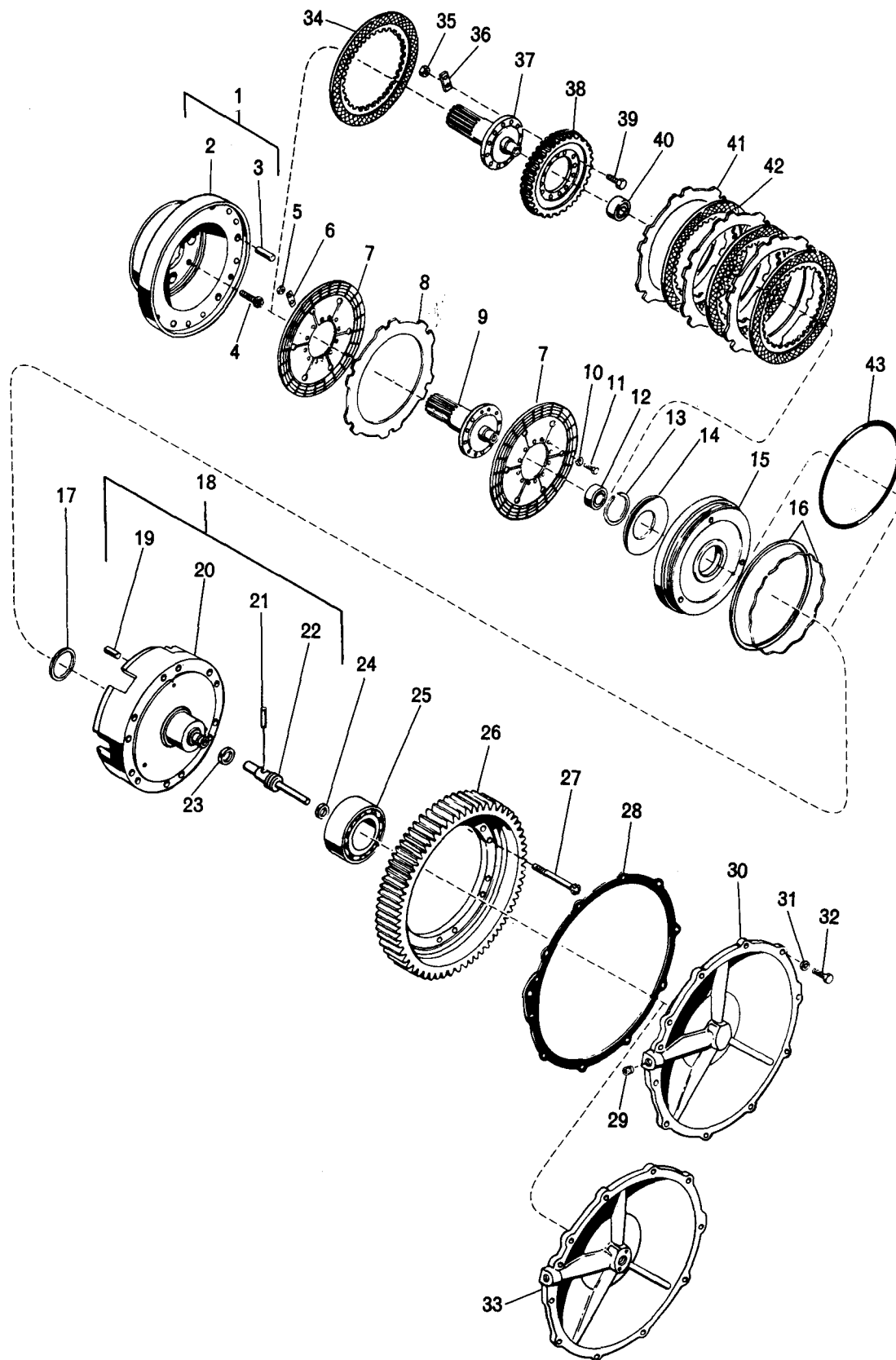
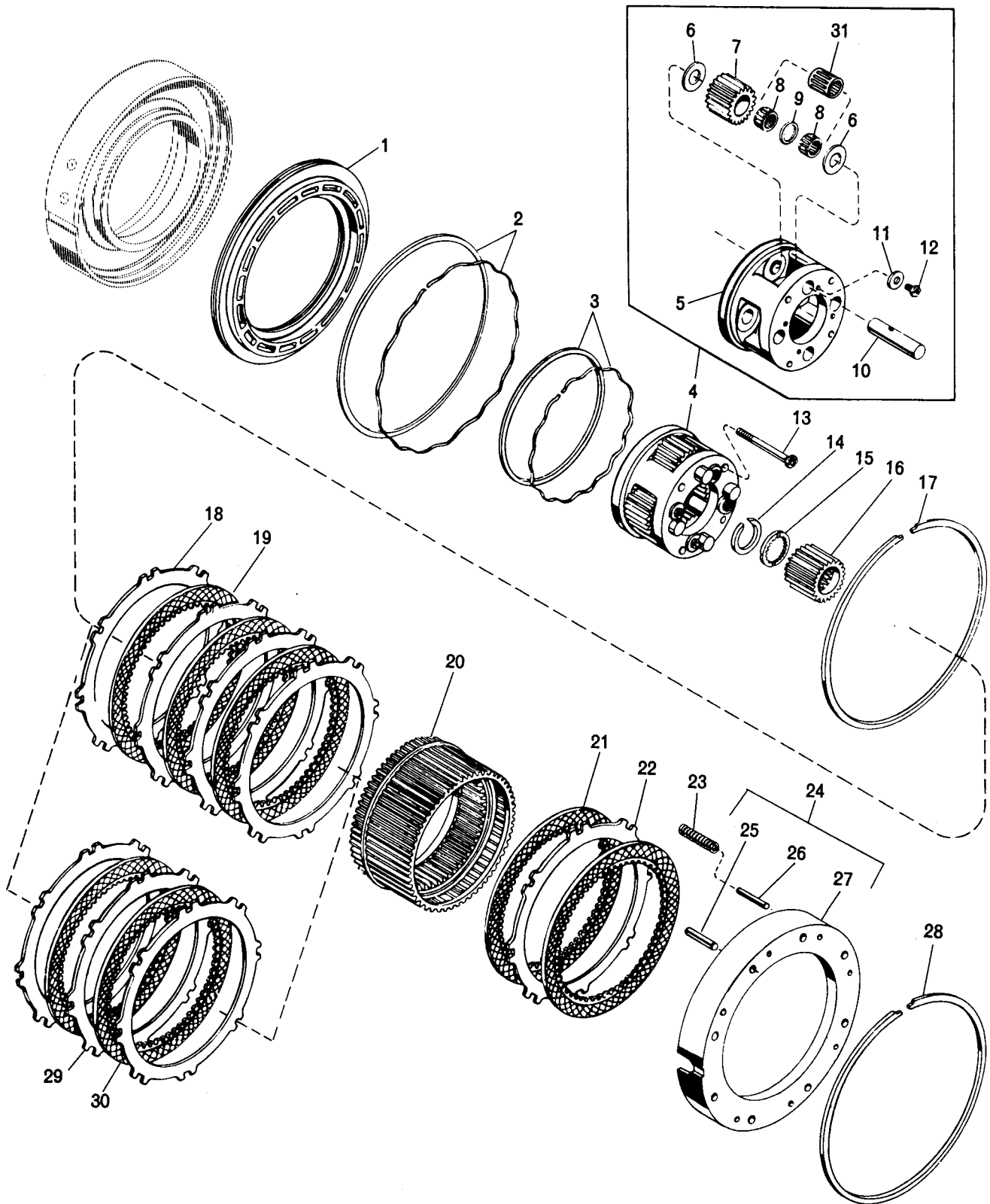


FIG. 10. HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR



4397B

FIG. 10-1. HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR

GROUP A

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
1	MEMBER ASSY, HIGH-RANGE CLUTCH DRIVE	6831257	1		1	2
2	MEMBER, HIGH-RANGE CLUTCH DRIVE	6831256	*	1		
3	PIN	6773459	6		6	12
4	BOLT, HEX HD LOCK, 7/16-20 X 1 1/4	9409233	4	4	8	12
5	NUT, HX, 5/16-24	103025	12	12	24	48
6	STRIP, LOCKING	6778498	6	6	12	24
7	PLATE, CLUTCH	6777592	2	2	4	8
8	PLATE, EXTERNAL SPLINED	6837690	1	1	2	4
9	SHAFT, HIGH CLUTCH	6778313	1		1	2
10	WASHER, PLAIN	9422846	12	12	24	48
11	BOLT, HX HD, 5/16-24 X 7/8	9409018	12	12	24	36
12	BEARING, SINGLE ROW BALL, ND3204LR1214A	907426	1	1	2	5
13	RING, SNAP, EXTERNAL	6756739	1	1	2	5
14	SPRING, PISTON RETURN	6756134	1	1	2	4
15	PISTON, HIGH RANGE CLUTCH	6777525	1		1	2
16	KIT, SEAL AND EXPANDER CONSISTS OF 1-6774342	6776999	1	1	3	10
	SEALRING, 1-6776749 EXPANDER AND 1-6777057					
	INSTRUCTION SHEET					
17	RING, SEAL, HOOK TYPE	6754823	1	1	3	10
18	HUB ASSY, HIGH-RANGE CLUTCH	6831055	1		1	2
19	PIN, DOWEL	6777598	3		1	2
20	HUB, HIGH-RANGE CLUTCH	6831052	*	1		
21-23	NOT USED IN THIS GROUP					
24	RING, SEAL, HOOK TYPE	6839163	1			
25	BEARING, DOUBLE ROW BALL, ND5215L1214A	907487	1	1	2	5
26	GEAR, TRANSFER DRIVE	6778541	1		1	2
27	BOLT, HX HD, 7/16-20 X 4	9423713	12	12	24	36
28	GASKET, TRANSMISSION REAR COVER	6778271	1	1	3	10
29	PLUG	444691	1	1	2	3
30	COVER, TRANSMISSION REAR	6831053	1			1
31	WASHER, LOCK, 7/16	103322	11	11	22	33
32	BOLT, HX HD, 7/16-14 X 1 1/4	179860	11	11	22	33
33-43	NOT USED IN THIS GROUP.					

GROUP B

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10-1

1	PISTON, HIGH-RANGE CLUTCH	6778253	1		1	2
2	KIT, SEAL AND EXPANDER CONSISTS OF 1-6776401	6777952	1	1	3	10
	SEALRING, 1-6776478 EXPANDER AND 1-6777057					
	INSTRUCTION SHEET					
3	KIT, SEAL AND EXPANDER CONSISTS OF 1-6776483	6777954	1	1	3	10
	SEALRING, 1-6774451 EXPANDER AND 1-6777057					
	INSTRUCTION SHEET					
4	CARRIER ASSY, HIGH-RANGE CLUTCH PLANETARY	6884032	1			1
5	CARRIER, HIGH-RANGE CLUTCH PLANETARY	6884033	1		1	2
6	WASHER, THRUST	6830225	8		8	16
7	PINION, PLNT MATCHED SET OF 4 PINIONS	6777955	1	SET	1	2
8	BEARING, ROLLER, TORRINGTON WJ162112	9422966	8		8	16
9	SPACER, BEARING	6778238	4		4	8
10	SPINDLE	6778239	4		4	8
11	WASHER	6778243	4		4	8
12	BOLT, HX HD, 3/8-24 X 1/2	9409125	4		4	8
13	BOLT, HX HD, 7/16-20 X 3 11/16	9423680	4	4	8	12
14	RING, SNAP, SEE SPI 657	6704351	1	1	2	5
15	WASHER, THRUST	6778261	1	1	2	5
16	GEAR, HIGH-RANGE CLUTCH SUN	6778256	1		1	2

CONTINUED ON NEXT PAGE

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP B CONT

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10-1

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
17	RING, SNAP, .187 THK	6833907	AR	1	2	3
17	RING, SNAP, .174 THK, COLOR CODED RED	6830336	AR	1	2	3
17	RING, SNAP, .180 THK, COLOR CODED WHITE	6830337	AR	1	2	3
17	RING, SNAP, .193 THK, COLOR CODED BLUE	6830338	AR	1	2	3
17	RING, SNAP, .200 THK, COLOR CODED GREEN	6830339	AR	1	2	3
18-19	NOT USED IN THIS GROUP					
20	GEAR, HIGH AND LOW RANGE CLUTCH RING	6778521	1		1	2
21	PLATE, INTERNAL SPLINED	23010123	2	2	4	8
22	PLATE, EXTERNAL SPLINED	6776092	1	1	2	4
23	SPRING, PISTON RETURN	6776549	7		7	14
24	ANCHOR ASSY, HIGH-RANGE CLUTCH	6830677	1			1
25	PIN	6776504	8		8	16
26	PIN	6881362	7		7	14
27	ANCHOR, HIGH-RANGE CLUTCH	6830663	* 1			
28	RING, SNAP	6833907	1	1	2	3
29	PLATE, EXTERNAL SPLINED	6776092	3	3	6	12
30	PLATE, INTERNAL SPLINED	23010123	2	2	4	8
31	NOT USED IN THIS GROUP					

GROUP C

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10-1

SAME AS GROUP B, EXCEPT FOR PARTS LISTED BELOW.

1	PISTON, HIGH-RANGE CLUTCH	6778540	1		1	2
18	PLATE, EXTERNAL SPLINED	6776092	4	4	8	16
19	PLATE, INTERNAL SPLINED	23010123	3	3	6	12
21	PLATE, INTERNAL SPLINED	23010123	2	2	4	8
22	PLATE, EXTERNAL SPLINED	6776092	1	1	2	4
29-30	NOT USED IN THIS GROUP.					

GROUP D

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

18	HUB ASSY, HIGH-RANGE CLUTCH	6778537	1		1	2
20	HUB, HIGH-RANGE CLUTCH	6778536	* 1			
21	PIN	141157	1	1	2	3
22	SHAFT, SPEEDOMETER DRIVE	6775822	1		1	2
23	RING, SEAL, HOOK TYPE	6839163	1	1	3	10
30	NOT USED IN THIS GROUP.					
33	COVER, TRANSMISSION REAR	6778533	1			1

GROUP E

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

26	GEAR, TRANSFER DRIVE	6838578	1		1	2
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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP F

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10

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
5-12	NOT USED IN THIS GROUP					
15	PISTON, HIGH-RANGE CLUTCH	6839082	1		1	2
18	HUB ASSY, HIGH-RANGE CLUTCH	6839080	1		1	2
19	PIN, DOWEL	141244	3		1	2
20	HUB, HIGH-RANGE CLUTCH	6831052 *	1			
34	PLATE, INTERNAL SPLINED	23010122	1	1	2	4
35	NUT, HEX, 5/16-24	103025	12	12	24	48
36	STRIP, LOCKING	6778498	6	6	12	24
37	SHAFT, HIGH-RANGE CLUTCH	6778313	1		1	2
38	HUB, HIGH-RANGE CLUTCH	6837941	1		1	2
39	BOLT, HX HD, 5/16-24 X 7/8	9409018	12	12	24	48
40	BEARING, SINGLE ROW BALL, ND3204LR1214A	907426	1	1	2	5
41	PLATE, EXTERNAL SPLINED	6837690	3	3	6	12
42	PLATE, INTERNAL SPLINED	23010122	3	3	6	12

GROUP G

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

5-12	NOT USED IN THIS GROUP					
15	PISTON, HIGH-RANGE CLUTCH	6839082	1		1	2
18	HUB ASSY, HIGH-RANGE CLUTCH	6839548	1		1	2
19	PIN, DOWEL	141244	3		1	2
20	HUB, HIGH-RANGE CLUTCH	6778536 *	1			
21	PIN	141157	1	1	2	3
22	SHAFT, SPEEDOMETER DRIVE	6775822	1		1	2
23	RING, SEAL, HOOK TYPE	6839163	1	1	3	10
30	NOT USED IN THIS GROUP					
33	COVER, TRANSMISSION REAR	6778533	1			1
34	PLATE, INTERNAL SPLINED	23010122	1	1	2	4
35	NUT, HEX, 5/16-24	103025	12	12	24	48
36	STRIP, LOCKING	6778498	6	6	12	24
37	SHAFT, HIGH-RANGE CLUTCH	6778313	1		1	2
38	HUB, HIGH-RANGE CLUTCH	6837941	1		1	2
39	BOLT, HX HD, 5/16-24	9409018	12	12	24	48
40	BEARING, SINGLE ROW BALL, ND3204LR1214A	907426	1	1	2	5
41	PLATE, EXTERNAL SPLINED	6837690	3	3	6	12
42	PLATE, INTERNAL SPLINED	23010122	3	3	6	12

GROUP H

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10-1

SAME AS GROUP B, EXCEPT FOR PARTS LISTED BELOW

1	PISTON, HIGH-RANGE CLUTCH	6778540	1		1	2
18	PLATE, EXTERNAL SPLINED	6839914	4	4	8	10
19	PLATE, INTERNAL SPLINED	23010123	3	3	6	12
20	GEAR, RING, HIGH AND LOW RANGE CLUTCH	6838669	1		1	2
21	PLATE, INTERNAL SPLINED	23010123	2	2	4	8
22	PLATE, EXTERNAL SPLINED	6839914	1	1	2	4
24	ANCHOR ASSY, HIGH-RANGE CLUTCH	6839921	1			1
25	PIN	6839912	8		8	16

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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP H CONT

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10-1

SAME AS GROUP B, EXCEPT FOR PARTS LISTED BELOW

REF NO	NOMENCLATURE	PART NO	REQ	RECOMMENDED SPARES FOR UNITS		
				1-3	4-10	11-25
26	PIN	6881362	7		7	14
27	ANCHOR, HIGH-RANGE CLUTCH	6839920 *	1			
29-30	NOT USED IN THIS GROUP					

GROUP J

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

1	MEMBER ASSY, DRIVE, HIGH-RANGE CLUTCH	6839257	1		1	2
2	MEMBER, DRIVE, HIGH RANGE CLUTCH	6839258 *	1			
4	BOLT, HX HD LOCK, 7/16-20 X 1	444672	4	4	8	12
5-12	NOT USED IN THIS GROUP					
15	PISTON, HIGH-RANGE CLUTCH	6839082	1		1	2
18	HUB ASSY, HIGH-RANGE CLUTCH	6839080	1		1	2
19	PIN, DOWEL	141244	3		1	2
20	HUB, HIGH-RANGE CLUTCH	6831052 *	1			
26	GEAR, TRANSFER DRIVE	6838578	1		1	2
34	PLATE, INTERNAL SPLINED	23010122	1	1	2	4
35	NUT, HEX, 5/16-24	103025	12	12	24	48
36	STRIP, LOCKING	6778498	6	6	12	24
37	SHAFT, HIGH-RANGE CLUTCH	6778313	1		1	2
38	HUB, HIGH-RANGE CLUTCH	6837941	1		1	2
39	BOLT, HX HD, 5/16-24 X 7/8	9409018	12	12	24	48
40	BEARING, SINGLE ROW BALL, ND3204LR1214A	907426	1	1	2	5
41	PLATE, EXTERNAL SPLINED	6837690	3	3	6	12
42	PLATE, INTERNAL SPLINED	23010122	3	3	6	12

GROUP K

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

1	MEMBER ASSY, DRIVE, HIGH-RANGE CLUTCH	6839257	1		1	2
2	MEMBER, DRIVE	6839258 *	1			
4	BOLT, HX HD, LOCK, 7/16-20 X 1	9409047	4	4	8	12
5-12	NOT USED IN THIS GROUP					
15	PISTON, HIGH-RANGE CLUTCH	6839082	1		1	2
18	HUB ASSY-HIGH-RANGE CLUTCH	6839546	1		1	2
19	PIN, DOWEL	141244	3		1	2
20	HUB, HIGH RANGE CLUTCH	6778536 *	1			
21	PIN	141157	1	1	2	3
22	SHAFT, SPEEDOMETER DRIVE	6775822	1		1	2
23	RING, SEAL, HOOK TYPE	6839163	1	1	3	10
30	NOT USED IN THIS GROUP					
33	COVER, TRANSMISSION REAR	6778533	1			1
34	PLATE, INTERNAL SPLINED	23010122	1	1	2	4
35	NUT, HEX, 5/16-24	103025	12	12	24	48
36	STRIP, LOCKING	6778498	6	6	12	24
37	SHAFT, HIGH-RANGE CLUTCH	6778313	1		1	2
38	HUB, HIGH-RANGE CLUTCH	6837941	1		1	2
39	BOLT, HX HD, 5/16-24 X 7/8	9409018	12	12	24	48
40	BEARING, SINGLE ROW BALL, ND3204LR1214A	907426	1	1	2	5

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* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP K CONT

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10

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
41	PLATE, EXTERNAL SPLINED	6837690	3	3	6	12
42	PLATE, INTERNAL SPLINED	23010122	3	3	6	12

GROUP L

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

5-12	NOT USED IN THIS GROUP					
15	PISTON, HIGH-RANGE CLUTCH	23011755	1		1	2
16	NOT USED IN THIS GROUP					
18	HUB ASSY, HIGH-RANGE CLUTCH	6839080	1		1	2
19	PIN, DOWEL	141244	3		1	2
20	HUB, HIGH-RANGE CLUTCH	6831052 *	1			
34	PLATE, INTERNAL SPLINER	23010122	1	1	2	4
35	NUT, HX, 5/16-24	103025	12	12	24	48
36	STRIP, LOCKING	6778498	6	6	12	24
37	SHAFT, HIGH-RANGE CLUTCH	6778313	1		1	2
38	HUB, HIGH-RANGE CLUTCH	6837941	1		1	2
39	BOLT, HX HD, 5/16-24 X 7/8	9409018	12	12	24	48
40	BEARING, SINGLE ROW BALL, ND3204LR1214A	907426	1	1	2	5
41	PLATE, EXTERNAL SPLINED	6837690	3	3	6	12
42	PLATE, INTERNAL SPLINED	23010122	3	3	6	12
43	RING, SEAL	6832537	1	1	3	10

GROUP M

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW

5-12	NOT USED IN THIS GROUP					
15	PISTON, HIGH-RANGE CLUTCH	23011755	1		1	2
16	NOT USED IN THIS GROUP					
18	HUB ASSY, HIGH-RANGE CLUTCH	6839548	1		1	2
19	PIN, DOWEL	141244	3		1	2
20	HUB, HIGH-RANGE CLUTCH	6778536 *	1			
21	PIN	141157	1	1	2	3
22	SHAFT, SPEEDOMETER DRIVE	6775822	1		1	2
23	RING, SEAL, HOOK TYPE	6839163	1	1	3	10
30	NOT USED IN THIS GROUP					
33	COVER, TRANSMISSION GEAR	6778533	1			1
34	PLATE, INTERNAL SPLINED	23010122	1	1	2	4
35	NUT, HEX, 5/16-24	103025	12	12	24	48
36	STRIP, LOCKING	6778498	6	6	12	24
37	SHAFT, HIGH-RANGE CLUTCH	6778313	1		1	2
38	HUB, HIGH-RANGE CLUTCH	6837941	1		1	2
39	BOLT, HX HD, 5/16-24	9409018	12	12	24	48
40	BEARING, SINGLE ROW BALL, ND3204LR1214A	907426	1	1	2	5
41	PLATE, EXTERNAL SPLINED	6837690	3	3	6	12
42	PLATE, INTERNAL SPLINED	23010122	3	3	6	12
43	RING, SEAL	6832537	1	1	3	10

* SERVICED AS AN ASSY - NOT AS A DETAIL PART

GROUP N

HIGH-RANGE CLUTCH AND TRANSFER DRIVE GEAR, FIGURE 10

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
4	CARRIER ASSY, HIGH-RANGE CLUTCH PLANETARY	23013334	1			1
7	PINION, PLNT, MATCHED SET OF 4 PINIONS	6839996	1KIT		1	2
8-9	NOT USED IN THIS GROUP					
31	BEARING	6837599	4		4	8

LOW-RANGE CLUTCH 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
6778504	TRT4420-1	A	6839934	TRT 4820-1	E
6778506	TRT4621-1	B	6830119	CRT 4420-1	F
6778850	TRT4420-1	A	6880637	TRT 4820-1	E
6778851	TRT4420-1	A	6880651	TRT 4820-1	E
6779472	TRT4420-1	A	6880821	TRT 4820-1	E
6779473	TRT4420-1	A	6880963	TRT 4820-1	E
6779787	TRT4621-1	B	6881065	TRT 4820-1	E
6779877	TRT4420-1	C	6881422	TRT 4820-1	G
6830564	TRT4621-1	B	6881432	TRT 4820-1	E
6830580	TRT4420-1	A	6881444	TRT 4820-1	E
6830653	TRT4621-1	B	6881811	TRT 4820-1	G
6830749	TRT4621-1	B	6882364	TRT 4820-1	E
6830750	TRT4621-1	B	6882740	TT 4820-1	G
6831397	TRT4621-1	B	6883512	TRT 4820-1	G
6831802	TRT 4420-1	A	6883590	TRT 4820-1	E
6831832	TRT 4620-1	A	6883992	TRT 4820-1	E
6831834	TRT 4420-1	A	6884285	TRT 4820-1	E
6831887	TRT 4420-1	A	6885375	TRT 4820-1	E
6832150	TRT 4621-1	B	6885405	TRT 4820-1	E
6832151	TRT 4420-1	A	6885541	TRT 4820-1	E
6832449	TRT 4420-1	A	23010840	TRT 4820-1	E
6832600	TRT 4621-1	B	23011460	TRT 4820-1	E
6832690	TRT 4621-1	D	23011461	TRT 4820-1	E
6833389	TRT 4620-1	A	23011477	TRT 4821-1	E
6834954	TRT 4420-1	A	23011478	TRT 4821-1	E
6835208	TRT 4420-1	A	23011479	TRT 4821-1	E
6835617	TRT 4420-1	A	23011480	TRT 4821-1	E
6835686	TRT 4420-1	A	23011481	TRT 4821-1	E
6836187	TRT 4621-1	B	23011482	TRT 4821-1	E
6836629	TRT 4621-1	B	23011483	TRT 4821-1	E
6836795	TRT 4621-1	B	23011484	TRT 4821-1	E
6836975	TRT 4621-1	D	23011485	TRT 4821-1	E
6837148	TRT 4621-1	B	23011486	TRT 4821-1	E
6837680	TRT 4620-1	A	23011487	TRT 4821-1	E
6837861	TRT 4420-1	A	23011488	TRT 4821-1	E
6838932	TRT 4621-1	B	23011489	TRT 4821-1	E
6839016	TRT 4420-1	A	23011534	TRT 4820-1	G
6839066	TRT 4420-1	A	23012060	TRT 4821-1	E
6839535	TRT 4820-1	E	23012247	TRT 4820-1	E
6839536	TRT 4820-1	E	23012398	TRT 4821-1	G
6839537	TRT 4820-1	E	23012400	TRT 4821-1	E
6839538	TRT 4820-1	E	23012401	TRT 4821-1	G
6839606	TRT 4621-1	B	23012481	TRT 4820-1	E
6839751	TRT 4620-1	C	23012683	TRT 4821-1	E
6839827	TRT 4820-1	E	23012781	TRT 4821-1	E

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

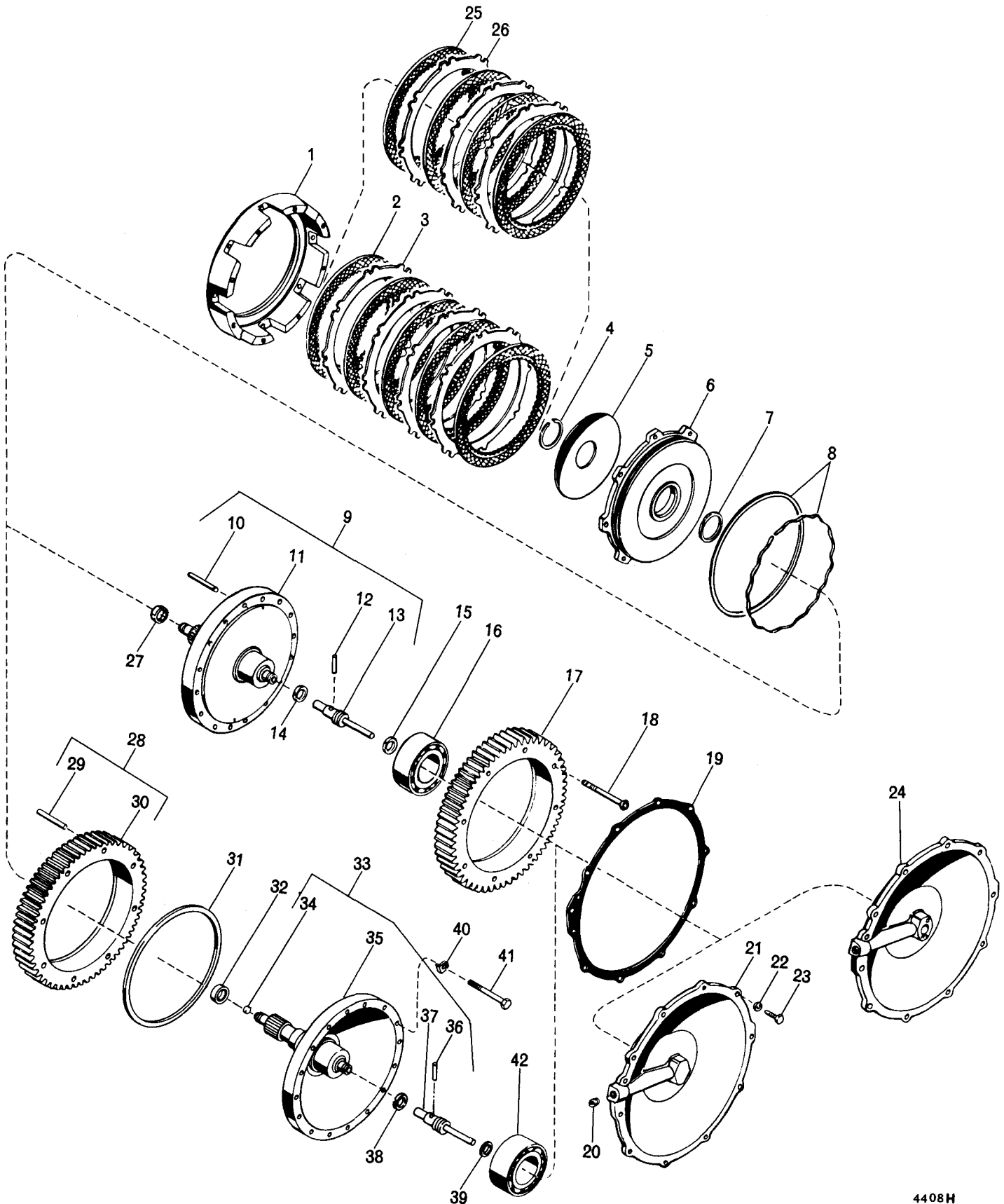


FIG. 11. LOW-RANGE CLUTCH

GROUP A

LOW-RANGE CLUTCH, FIGURE 11

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
2-3	NOT USED IN THIS GROUP					
4	RING, SNAP	6756739	1	1	2	5
5	SPRING, BELLEVILLE	6835399	1	1	2	4
6	PISTON, LOW-RANGE CLUTCH	6776090	1		1	2
7	RING, SEAL	6754823	1	1	3	10
8	KIT, SEAL AND EXPANDER CONSISTS OF 1-6774343	6776995	1	1	3	10
	SEALING, 1-6776745 EXPANDER AND 1-6777057					
	INSTRUCTION SHEET					
9	HUB ASSY, LOW-RANGE CLUTCH, SEE SPI 739A	6831054	1		1	2
10	PIN	6750094	8		8	16
11	HUB, LOW-RANGE CLUTCH	6831051	*	1		
12-14	NOT USED IN THIS GROUP					
15	RING, SEAL, HOOK TYPE	6839163	1	1	3	10
16	BEARING, DOUBLE ROW BALL, ND5215L1214A	907487	1	1	2	5
17	GEAR, TRANSFER DRIVE	6778270	1		1	2
18	BOLT, HX HD, 1/2-20 X 4	9409213	6	8	16	24
19	GASKET, TRANSMISSION REAR COVER	6778271	1	1	3	10
20	PLUG	444691	1	1	2	3
21	COVER, TRANSMISSION REAR	6831053	1			1
22	WASHER, LOCK, 7/16	103322	11	11	22	33
23	BOLT, HX HD, 7/16-14 X 1 1/4	179860	11	11	22	33
24	NOT USED IN THIS GROUP.					
25	PLATE, INTERNAL SPLINED	23010123	4	4	8	16
26	PLATE, EXTERNAL SPLINED	6776092	3	3	6	12
27	SPACER, USE WITH LOW RANGE CLUTCH HUB 6831054	6837815	1	1	2	3
	PRIOR TO S/N 3595, SEE SPI 739A					
28-41	NOT USED IN THIS GROUP					

GROUP B

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
16	BEARING, ROLLER, HY BU5215L	7451532	1	1	2	5
25-26	NOT USED IN THIS GROUP					

GROUP C

LOW-RANGE CLUTCH, FIGURE 11

SAME AS GROUP A, EXCEPT FOR PARTS LISTED BELOW.

9	HUB ASSY, LOW-RANGE CLUTCH	6778535	1		1	2
11	HUB, LOW-RANGE CLUTCH	6778534	*			
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
21	NOT USED IN THIS GROUP					
24	COVER, TRANSMISSION REAR	6778533	1			1

* SERVICED AS AN ASSY - NOT AS A DETAIL PART