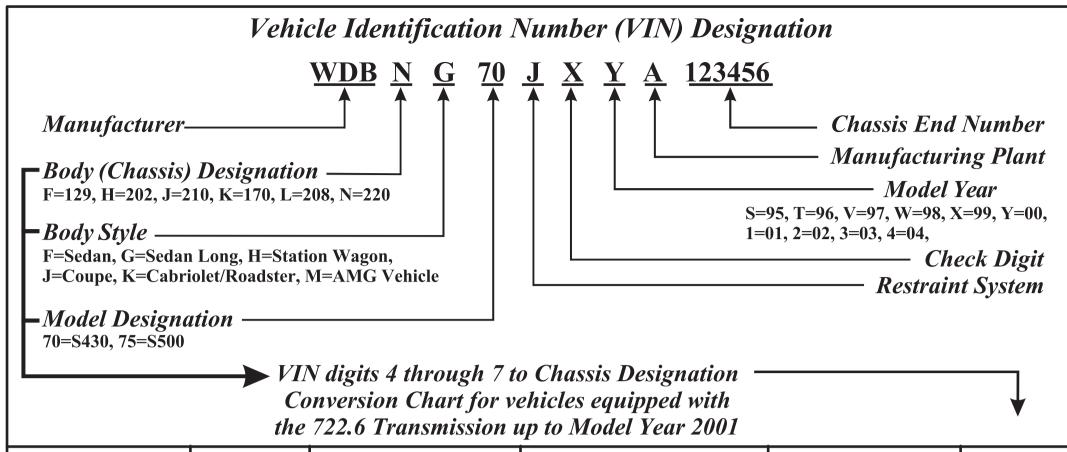
MERCEDES, JAGUAR, DAIMLER/CHRYSLER "722.6" "5 Speed"

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Note: An "Update Handbook" with the familiar Green cover, is also available from ATSG and includes much more information on the valve body variations that are found in the 722.6 transmission.



Model	Year	Chassis	Engine	Transmission	VIN
E55 AMG	1999	210.074	113.980 ME 2.0	722.623/24/636	
E55 AMG	2001	210.074	113.980 ME 2.0	722.6	JF74
ML320	1998-1999	163.154	112.942	722.662	
ML430	1999	163.172	113.942 ME 2.0	722.663	
ML55	2000	163	113 M 2.0	722.6	
S320	1997-1999	140.032	104.994 ME 2.1	722.605	GA32
S320	1997-1999	140.032 Long	104.994 ME 2.1	722.605	GA33
S420	1996-1999	140.032/43	104.9(7)81 ME 1.0	722.622/633	GA32
S430	1998-1999	140.0	113. ME 2.0	722.6	
S430	2000	220.170	113.941 ME 2.0	722.6	NG70
S430	2001	220.170	113.941 ME 2.8	722.632	NG70
S500 Coupe	1996-1998	140.070	119.970 ME 1.0	722.620	GA70
S500	1996-1999	140.051	119.9(7)80 ME 1.0	722.620/622	GA51
S500	2000	220.175	113.960 ME 2.0	722.6	NG75
S500	2001	220.175	113.960 ME 2.8	722.6	NG75
S600	1996-1999	140.057	120.982 ME 1.0	722.621	GA57
S600 Coupe	1996-1997	140.076	120.980/2 ME 1.0	722.621	
S600	2000	220.178	120.982 ME 1.0	722.621	NG78
S600	2001	220.178	137.970	722.628	NG78
SL320	1996-1997	126.063	104.991 HFM	722.603/5	FA63
SL500	1996-1998	129.067	119.9(7)82 ME 1.0	722.620	FA67
SL500	1999-2001	129.068	113.961 ME 2.0	722.620/624	FA68
SL600	1996-2001	129.076	120.983(1) ME 1.0	722.621/32	JH82
SLK230	1998-1999	170.447	111.973 ME 2.1	722.605	KK47
SLK230	2000	170.449	111.983 ME 2.1	722.616	KK49
SLK230	2001	170.449	111.983 ME 2.8	722.616	KK49
SLK320	2000	170.465	112.973 ME 2.0	722.618	KK65
SLK320	2001	170.465	112.973 ME 2.8	722.618	KK65
SLK430	1999	170.4	113. ME 2.0	722.6	KK65

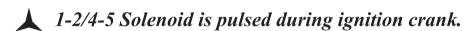
Figure 3

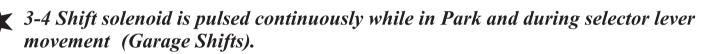
722.6 TRANSMISSION SOLENOID APPLICATION CHART

From the solenoid shift chart below, you will notice that shift solenoids 1-2/4-5, 2-3 and 3-4 are toggled "on-to-off" to make there respective shifts. While in gear they remain in the "off" state. This explains why, while you are driving, whatever the gear the transmission was in at the time the computer system observed a fault, that would be the gear the transmission failsafes to. When the vehicle is brought to a stop and the ignition is cycled, the transmission will remain in second gear. **Special Note:** If codes are stored and repairs have been made, all codes must be cleared for the limp mode feature to be turned off.

GEAR	SOLENOID					
SHIFTS	1-2/4-5 🛧	2-3	3-4*	MOD PC ^H	SHIFT PC [©]	TCC (D)
1ST	OFF	OFF	OFF	PWM	OFF	OFF
SHIFT	ON	OFF	OFF	PWM	PWM	OFF
2ND	OFF	OFF	OFF	PWM	OFF	*PWM
SHIFT	OFF	ON	OFF	PWM	PWM	*PWM
3RD	OFF	OFF	OFF	PWM	OFF	*PWM
SHIFT	OFF	OFF	ON	PWM	PWM	*PWM
4TH	OFF	OFF	OFF	PWM	OFF	*PWM
SHIFT	ON	OFF	OFF	PWM	PWM	*PWM
5TH	OFF	OFF	OFF	PWM	OFF	*PWM

Additional solenoid activity observed:





- a) Pulsed constantly while idling in Park or Neutral at approximately 40% Duty cycle.
 b) Voltage observed varied with throttle opening as well as during selector lever movement.
- (a) Pulsed constantly while idling in Park or Neutral at approximately 33% Duty cycle.
 b) Voltage observed varied with throttle opening during each gear shift only.
- * The TCC solenoid is also Pulse Width Modulated and duty cycles to apply the clutch.

 * The TCC is available in 2nd, 3rd, 4th and 5th gears, based on vehicle speed, throttle position and ATF temp.

SHIFT GROUPS

By viewing the mechanical, hydraulic and electrical operation of a shift, it can be observed that a specific solenoid and a group of valves cause a clutch application change. This is described as a "Shift Group." A shift group has two phases. The transition from one gear to the next is called a "shift phase." Once the shift is complete and the transmission is in gear it is called the "stationary phase." There are a total of three shift groups with which 5 forward speeds are achieved. In a shift phase, a shift solenoid initiates the application of one group of valves to change the clutches required for that shift. During this time the other two groups remain in the stationary phase.



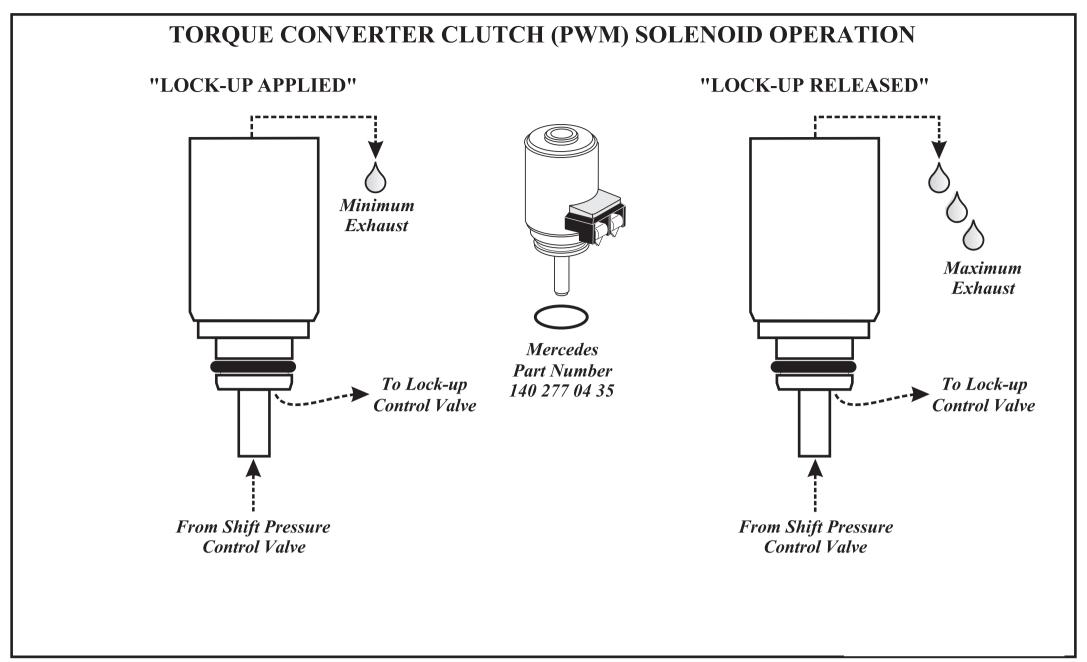


Figure 13

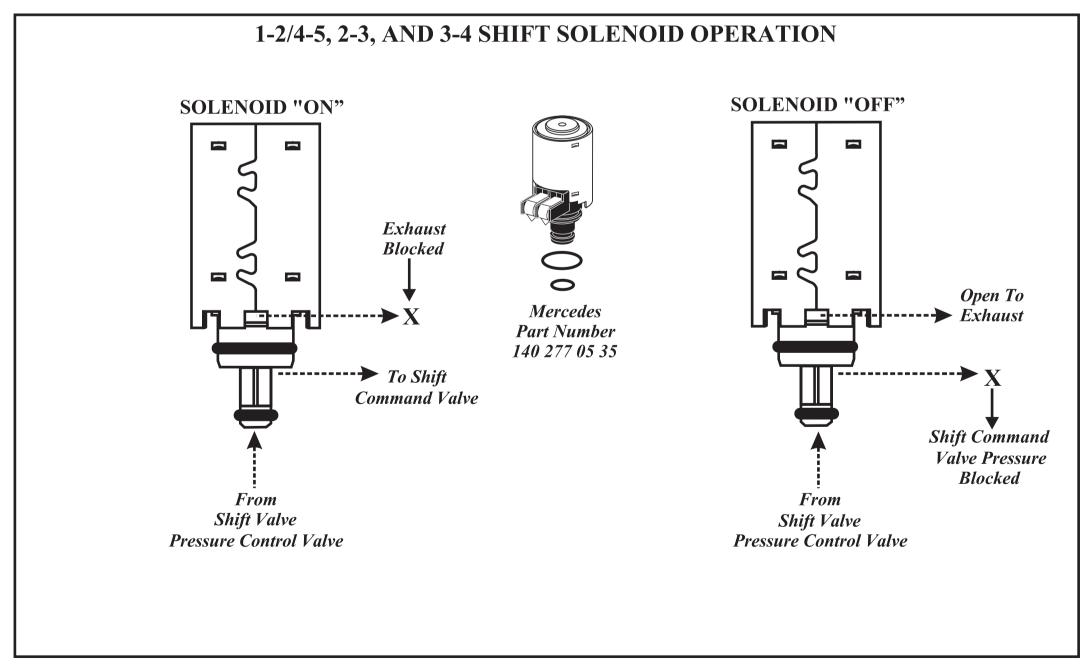


Figure 14

MERCEDES AND CHRYSLER TCM CONNECTOR AND TERMINAL IDENTIFICATION Transmission Control TCM "C2" TCM "C1" Module (TCM) Connector Connector 1 2 3 4 5 6 7 8 9 10 12 13 14 15 16 17 23 24 25 26 27 28 29 30 33 34 35 36 37 38 **TCM** Terminal Function **Term** Conn **C1** 1 Diagnostic Output To Data Link Connector Kickdown Switch **C1** 2 3 Winter/Standard Program Switch **C1 C**1 Reverse/Park Lock Solenoid 4 5 & 6 Not Used **C1 C1** Passenger Fuse And Relay Module Box **C1** 8 Not Used **C1** 9 Stop Lamp Input **C1** *10* Not Used N2 Input Speed Sensor Signal *C2 12 C2 13* Sensor 5V Voltage Supply 1-2/4-5 Shift Solenoid Ground Signal *C2 14* 3-4 Shift Solenoid Ground Signal *C2 15 C2 16* 2-3 Shift Solenoid Ground Signal TCC (PWM) Solenoid Ground Signal *C2 17* Not Used **C1** 23 & 24 Transmission Range Recognition Switch (Data "A") (96-99 Only - 2000-Up They use CAN bus) *25* **C1** Transmission Range Recognition Switch (Data "B") (96-99 Only - 2000-Up They use CAN bus) **C**1 *26* **C1** *27* Transmission Range Recognition Switch (Data "C") (96-99 Only - 2000-Up They use CAN bus) Transmission Range Recognition Switch (Data "D") (96-99 Only - 2000-Up They use CAN bus) **C1** *28 29 C1* Transmission Control Module (TCM) Voltage Supply **C1** *30* Transmission Control Module (TCM) Ground N2 & N3 Input Speed Sensor - TFT Sensor Ground *C2* 33 *34* TFT Temp Sensor - P/N Switch Signal C2*C2* N3 Input Speed Sensor Signal *35* C2*36* Modulation Pressure Control (MPC) Solenoid Ground Signal *C2* 37 Shift Pressure Control (SPC) Solenoid Ground Signal

C2

C2

*C*2

38

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H

Battery Voltage Supply to All Solenoids

CAN Bus Data Line Low (-)

CAN Bus Data Line High (+)

P1644 Incorrect Variant Configuration P1704 N2 Input Speed Sensor Overspeed P1731 Incorrect Gear Engaged P1731 CAN Signal From TCM Failure P2638 Torque Management Feedback Signal Performance P2767 N3 Input Speed Sensor Circuit, No Signal P2783 Torque Converter Temperature Too High P2784 Input Speed Sensor N2 & N3 Correlation U0002 CAN C Bus Off Performance U0100 Lost Comunication With ECMPCM U0101 Lost Comunication With ECMPCM U0101 Lost Comunication With Fout Control Module U0111 Lost Comunication With Front Control Module U0112 Lost Comunication With Front Control Module U0113 Lost Comunication With Instrument Cluster U0104 Lost Comunication With HVAC Control Module U0105 Lost Comunication With HVAC Control Module U0106 Lost Comunication With HVAC Control Module U0107 Implausible Data Recieved From ESM U0108 Unplausible Data Recieved From ESM U0109 Implausible Data Recieved From ESM U0109 Implausible Data Recieved From Instrument Cluster U0115 Implausible Data Recieved From Instrument Cluster U0121 Implausible Data Recieved From Front Control Module U0131 Implausible Data Recieved From Front Control Module U0131 Implausible Data Recieved From Front Control Module U1108 Lost Engine Coolant Message U1109 Instrument Signal Recieved U1109 Implausible Engine Speed Signal Recieved U1109 Implausible Engine Speed Signal Recieved U1109 Implausible Signal Recieved U1109 Implausible Shake Signal Recieved U1109 Implausible Bake Signal Recieved U1109 Implausible Bake Signal Recieved U1109 Implausible Engine Torque Signal Recieved U1109 Implausible Engine Temperature Signal Recieved U1109 Implausible Engine Temperature Data Enginal Recieved U1109 Implausible Engine Temperature Data Enginal Recieved U1109 Implausible Engine Temperature Data Length Recieved U1109 Implau	DEC	DAIMLER/CHRYSLER OBD-II DIAGNOSTIC TROUBLE CODES	
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U1402 Implausible Engine Temperature Signal Recieved U1404 Implausible Static Engine Torque Signal Recieved U1405 Implausible Minimum Engine Torque Signal Recieved U1406 Implausible Maximum Engine Torque Signal Recieved U1407 Implausible Engine Torque Request Signal Recieved U1408 Implausible Brake Signal Recieved U1409 Implausible Left Front Wheel Speed Signal Recieved U140A Implausible Right Front Wheel Speed Signal Recieved U140B Implausible Left Rear Wheel Speed Signal Recieved U140C Implausible Right Rear Wheel Speed Signal Recieved U140D Implausible Wheel Speed Signals Recieved U140F Implausible Engine Variant Data U1410 Implausible or Missing Front Control Module Variant Data U1507 Implausible Engine Temperature Data Length Recieved U1509 Implausible Engine Variant Message Data Length Recieved	<i>U1400</i>	Implausible TPS Signal Recieved	
U1404 Implausible Static Engine Torque Signal Recieved U1405 Implausible Minimum Engine Torque Signal Recieved U1406 Implausible Maximum Engine Torque Signal Recieved U1407 Implausible Engine Torque Request Signal Recieved U1408 Implausible Brake Signal Recieved U1409 Implausible Left Front Wheel Speed Signal Recieved U140A Implausible Right Front Wheel Speed Signal Recieved U140B Implausible Left Rear Wheel Speed Signal Recieved U140C Implausible Right Rear Wheel Speed Signal Recieved U140D Implausible Wheel Speed Signals Recieved U140F Implausible Engine Variant Data U1410 Implausible Engine Variant Data U1507 Implausible Engine Temperature Data Length Recieved U1509 Implausible Engine Variant Message Data Length Recieved	<i>U1401</i>	Implausible Engine Speed Signal Recieved	
U1405 Implausible Minimum Engine Torque Signal Recieved U1406 Implausible Maximum Engine Torque Signal Recieved U1407 Implausible Engine Torque Request Signal Recieved U1408 Implausible Brake Signal Recieved U1409 Implausible Left Front Wheel Speed Signal Recieved U1404 Implausible Right Front Wheel Speed Signal Recieved U140B Implausible Left Rear Wheel Speed Signal Recieved U140C Implausible Right Rear Wheel Speed Signal Recieved U140D Implausible Wheel Speed Signals Recieved U140F Implausible Engine Variant Data U1410 Implausible or Missing Front Control Module Variant Data U1507 Implausible Engine Temperature Data Length Recieved U1509 Implausible Engine Variant Message Data Length Recieved	<i>U1402</i>	Implausible Engine Temperature Signal Recieved	
U1406 Implausible Maximum Engine Torque Signal Recieved U1407 Implausible Engine Torque Request Signal Recieved U1408 Implausible Brake Signal Recieved U1409 Implausible Left Front Wheel Speed Signal Recieved U1404 Implausible Right Front Wheel Speed Signal Recieved U1405 Implausible Left Rear Wheel Speed Signal Recieved U1406 Implausible Right Rear Wheel Speed Signal Recieved U1400 Implausible Wheel Speed Signals Recieved U1401 Implausible Wheel Speed Signals Recieved U1405 Implausible Engine Variant Data U1410 Implausible or Missing Front Control Module Variant Data U1507 Implausible Engine Temperature Data Length Recieved U1509 Implausible Engine Variant Message Data Length Recieved	<i>U1404</i>	Implausible Static Engine Torque Signal Recieved	
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U140BImplausible Left Rear Wheel Speed Signal RecievedU140CImplausible Right Rear Wheel Speed Signal RecievedU140DImplausible Wheel Speed Signals RecievedU140FImplausible Engine Variant DataU1410Implausible or Missing Front Control Module Variant DataU1507Implausible Engine Temperature Data Length RecievedU1509Implausible Engine Variant Message Data Length Recieved	<i>U1409</i>	Implausible Left Front Wheel Speed Signal Recieved	
U140C Implausible Right Rear Wheel Speed Signal Recieved U140D Implausible Wheel Speed Signals Recieved U140F Implausible Engine Variant Data U1410 Implausible or Missing Front Control Module Variant Data U1507 Implausible Engine Temperature Data Length Recieved U1509 Implausible Engine Variant Message Data Length Recieved	<i>U140A</i>	Implausible Right Front Wheel Speed Signal Recieved	
U140DImplausible Wheel Speed Signals RecievedU140FImplausible Engine Variant DataU1410Implausible or Missing Front Control Module Variant DataU1507Implausible Engine Temperature Data Length RecievedU1509Implausible Engine Variant Message Data Length Recieved	<i>U140B</i>	Implausible Left Rear Wheel Speed Signal Recieved	
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	U1509	Implausible Engine Variant Message Data Length Recieved	
to the transfer of the control of th		Implausible Front Control Module Variant Message Data Length Recieved	

TRANSMISSION DISASSEMBLY (CONT'D)

- 5. Install dial indicator on transmission, as shown in Figure 42, with the plunger against flat spot on the input shaft.
- 6. Zero dial indicator and move the input shaft in and out to measure end-play.
- 7. Record measurement for assembly reference. End-play should be 0.3-0.5mm (.012"-.020").
- 8. Rotate transmission so that output shaft yoke is facing up, as shown in Figure 43.

Caution: Drain pan may be required under transmission to catch fluid.

- 9. Place the transmission in the Park position to prepare for removal of the output shaft nut.
- 10. Remove the output shaft drive yoke retaining nut, using a 30 mm, 12 point socket, as shown in Figure 43.
- 11. Remove the output shaft drive yoke, as shown in Figure 43.
- 12. Remove and discard the transmission rear seal, as shown in Figure 43.

Input Shaft End-Play Should Be 0.3 - 0.5 mm (.012" - .020")

13. Remove the transmission output shaft washer, as shown in Figure 43.

Note: Tag the washer, or tie-wrap it to the yoke since it is very similar to the geartrain end-play shim and they "must not" be interchanged.

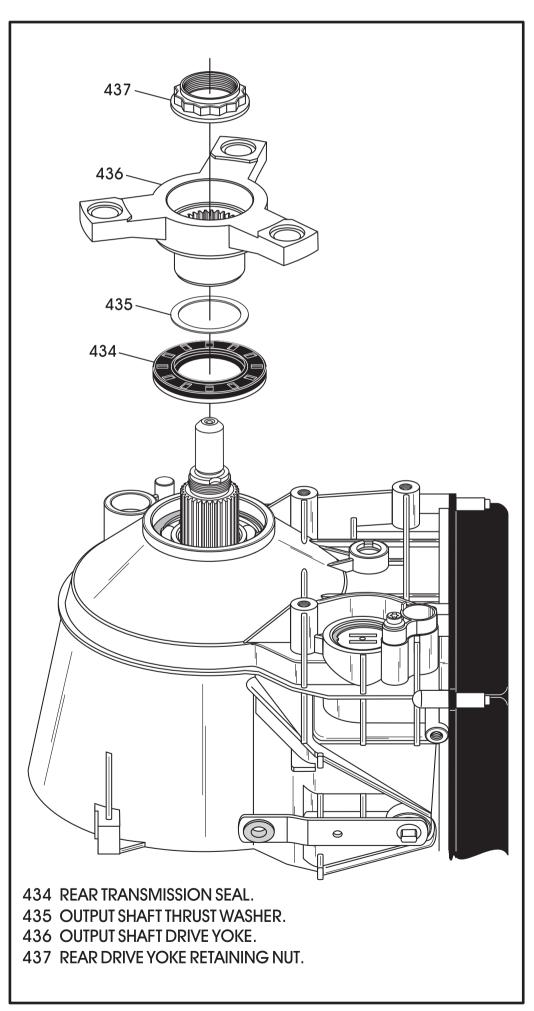
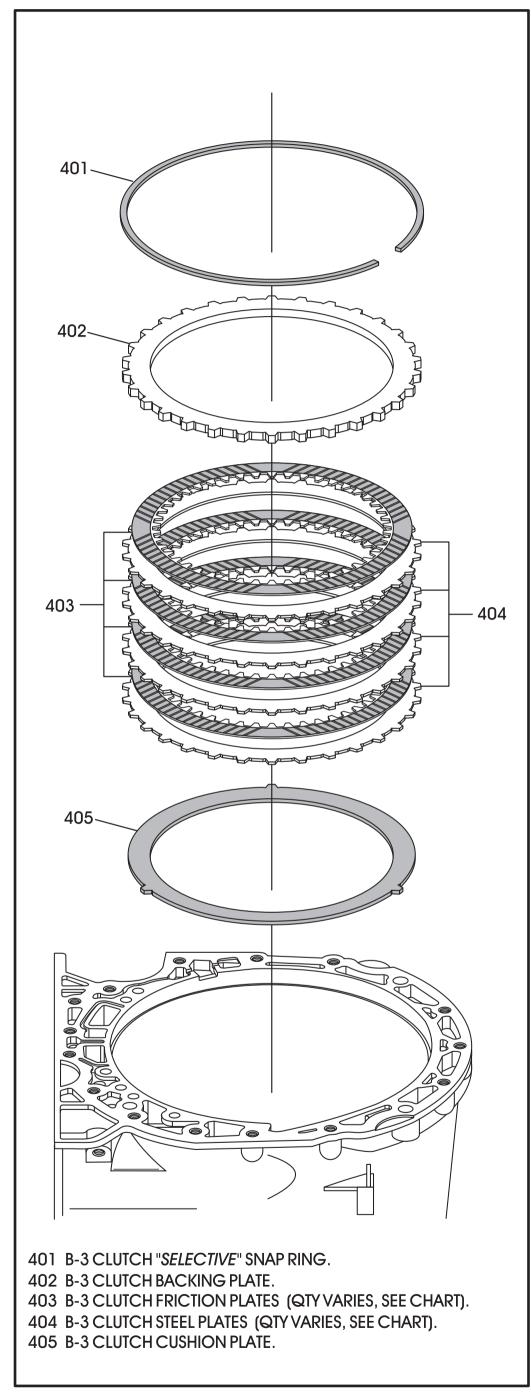




Figure 43





TRANSMISSION DISASSEMBLY (CONT'D)

31. Remove the B-3 *selective* snap ring, as shown in Figure 53.

Note: It is recommended that all snap rings be tagged for identification as many are very similar, but will not interchange.

- 32. Remove complete B-3 clutch pack, as shown in Figure 53.
- 33. Remove the B-2 clutch housing assembly, as shown in Figure 54, and set aside for the component rebuild section.

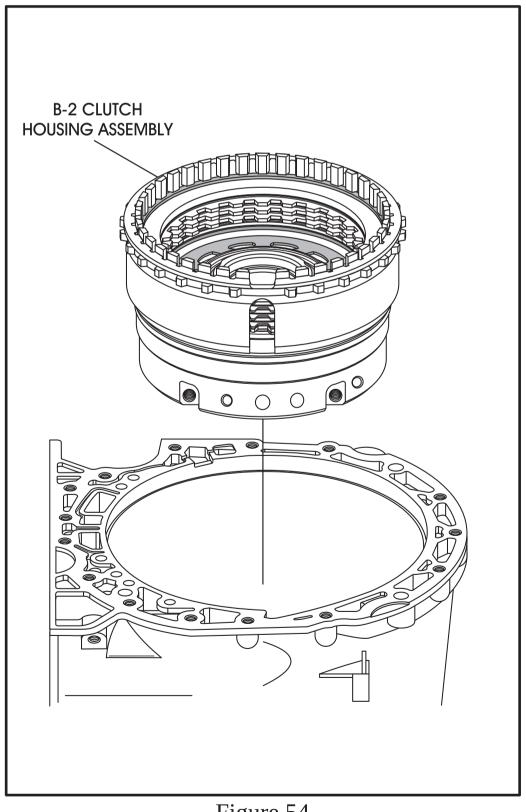


Figure 53 Figure 54



86 B-1 CLUTCH BACKING PLATE "SELECTIVE" SNAP RING. 87 B-1 CLUTCH BACKING PLATE. 88 B-1 CLUTCH FRICTION PLATES (QTY. VARIES, SEE CHART). 89 B-1 CLUTCH STEEL PLATES (QTY. VARIES, SEE CHART). 90 B-1 CLUTCH APPLY PLATE (.071"). 91 B-1 CLUTCH CUSHION PLATE.

COMPONENT REBUILD (CONT'D)

Oil Pump And B-1 Clutch Assembly

- 1. Place converter housing, oil pump, B-1 clutch assembly face down on a flat work surface, as shown in Figure 61.
- 2. Remove the B-1 clutch *selective* snap ring, as shown in Figure 61.
 - Note: It is recommended that all snap rings be tagged for identification as many are very similar, but will not interchange.
- 3. Remove the complete B-1 clutch, as shown in Figure 61.
- 4. Turn the converter housing over and remove the 11 retaining bolts, as shown in Figure 62, using a 30 Torx bit.

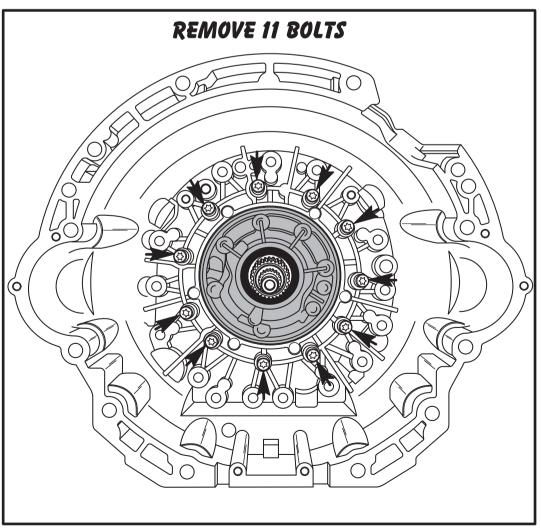


Figure 61 Figure 62



Oil Pump And B-1 Clutch Assembly (Cont'd)

39. Use caution when installing B-1 clutch plates. *Caution: The B-1 clutch may have 2, 3, or 4*

"double-sided" friction plates depending on the model. Refer to the chart in Figure 78 for reference.

Later models may also use "single-sided" friction plates. We will cover the assembly process for both.

All friction plates should be soaked in proper fluid for 30 minutes before installation.

"Double-Sided" Clutch Plates

- 40. Install the B-1 clutch "dished" cushion plate in direction shown in Figure 79.
- 41. Install the .071" thick apply plate, as shown in Figure 79.
- 42. Install "double-sided" frictions beginning with a friction plate and alternating with steel plates, as shown in Figure 79.

Note: Steel plate thickness will vary depending on snap ring groove location and number of frictions required.

- 43. Install the B-1 clutch backing plate, as shown in Figure 79.
- 44. Install the B-1 clutch *selective* snap ring, as shown in Figure 79.

Continued on Page 58

B-1 CLUTCH QUANTITY CHART BY MODEL					
TRANSMISSION MODEL	LINED PLATE	STEEL PLATE	BACK. PLATE	THIN APPLY PLATE	
722.600/660	2	1	1	1	
722.601/602/603/610	2	1	1	1	
722.604/606/609/617	3	2	1	1	
722.605/607/608/611/614 618/662/664/699	3	2	1	1	
722.665	3	2	1	1	
722.620/621/624/626/627 628/630/633/636/666	4	3	1	1	
722.622/623/625 631/632/663/669	3	2	1	1	
722.629/634/661	4	3	1	1	

The number of B-1 friction plates used is model dependant and determined by the backing plate snap ring location and the thickness of the steel plates.

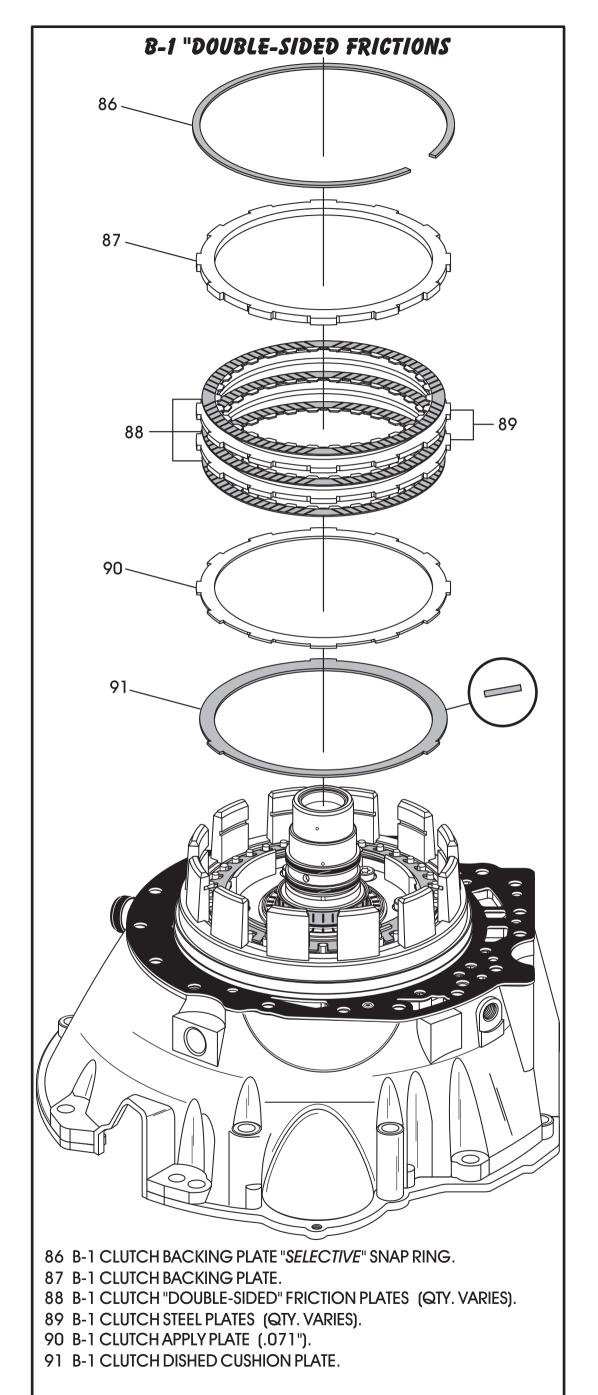


Figure 78 Figure 79

COMPONENT REBUILD (CONT'D)

K-1 Clutch Housing Assembly (Cont'd)

- 7. Install new "D" ring seal into the K-1 clutch housing, as shown in Figure 89, and lube with a small amount of Trans-Jel®.
- 8. Ensure that the bottom snap ring for F-1 sprag is in place, as shown in Figure 89.
- 9. Install the first end bearing on top of the snap ring with the lips facinng up, as shown in Figure 89.
- 112 113 **ARROW FACES DOWN** 113 112 115 **SNAP RING** IN PLACE 116 112 F1 SPRAG SNAP RING (2 REQUIRED). 113 F1 SPRAG END BEARINGS (2 REQUIRED). 114 F1 SPRAG ASSEMBLY. 115 K1 CLUTCH PISTON INNER "D" RING SEAL. 116 K1 CLUTCH HOUSING ASSEMBLY.

- 10. Install the F-1 sprag assembly with the arrow facing down, as shown in Figure 89.
- 11. Install the second end bearing with the lips facing down, as shown in Figure 89.
- 12. Install the second snap ring on top of the end bearing, as shown in Figure 89, and ensure that it is fully seated.
- 13. Install the K-1 clutch housing onto the B-1 clutch housing, as shown in Figure 90.
- 14. The K-1 clutch housing should freewheel in counter-clockwise direction and lock in the clockwise direction, as shown in Figure 90.
- 15. If it does not, you have the sprag in upside down.

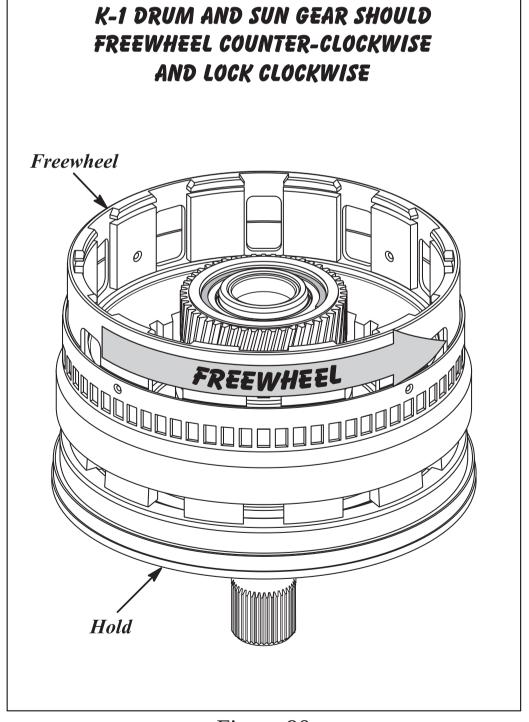


Figure 89 Figure 90



COMPONENT REBUILD (CONT'D)

K-2 Clutch Housing Assembly (Cont'd)

- 17. Use caution when installing K-2 clutch plates.

 Caution: The K-2 clutch may have 3, 4, 5, or 6 "double-sided" friction plates depending on the model. Refer to the chart in Figure 108 for reference. We have not found any of the "single-sided" frictions in the K-2 clutch.

 All friction plates should be soaked in proper fluid for 30 minutes before installation.
- 18. Install the K-2 clutch .071" thick apply plate, as shown in Figure 109.
- 19. Install "double-sided" clutches beginning with a friction plate and alternating with steel plates, as shown in Figure 109, until you have proper number of plates installed.
 - Note: Steel plate thickness will vary depending on snap ring groove location and number of frictions required (See chart Figure 108).
- 20. Install the K-2 clutch backing plate, as shown in Figure 109.
- 21. Install the K-2 clutch *selective* snap ring, as shown in Figure 109.

Continued on Page 74

K-2 CLUTCH QUANTITY CHART BY MODEL					
TRANSMISSION MODEL	LINED PLATE		BACK. PLATE	THIN APPLY PLATE	
722.600/660	4	3	1	1	
722.601/602/603/610	3	2	1	1	
722.604/606/609/617	4	3	1	1	
722.605/607/608/611/614 618/662/664/699	4	3	1	1	
722.665	4	3	1	1	
722.620/621/624/626/627 628/630/633/636/666	6	5	1	1	
722.622/623/625 631/632/663/669	5	4	1	1	
722.629/634/661	5	4	1	1	

The number of K-2 friction plates used is model dependant and determined by the backing plate snap ring location and the thickness of the steel plates.

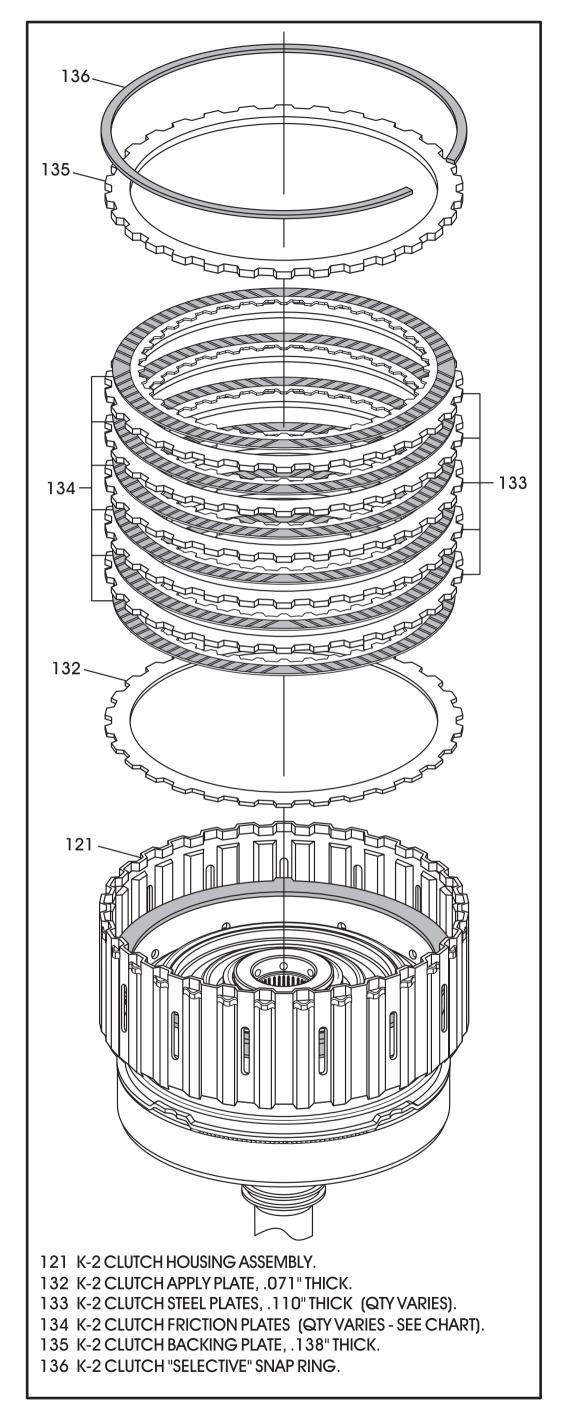


Figure 108 Figure 109

COMPONENT REBUILD (CONT'D)

Center & Rear Planetary Gearset

- 1. Removing the snap ring (456) from the output shaft, as shown in Figure 123, will allow you to disassemble the geartrain using Figure 123 as a guide.
- 2. The rear sun gear changed with the bushing being replaced with a ball bearing, as shown in Figure 124.
- 3. This allowed the elimination of the number 9 thrust bearing and number 10 thrust bearing race, as shown in Figure 124.
- 4. We will cover the assembly process for both the early and late versions.

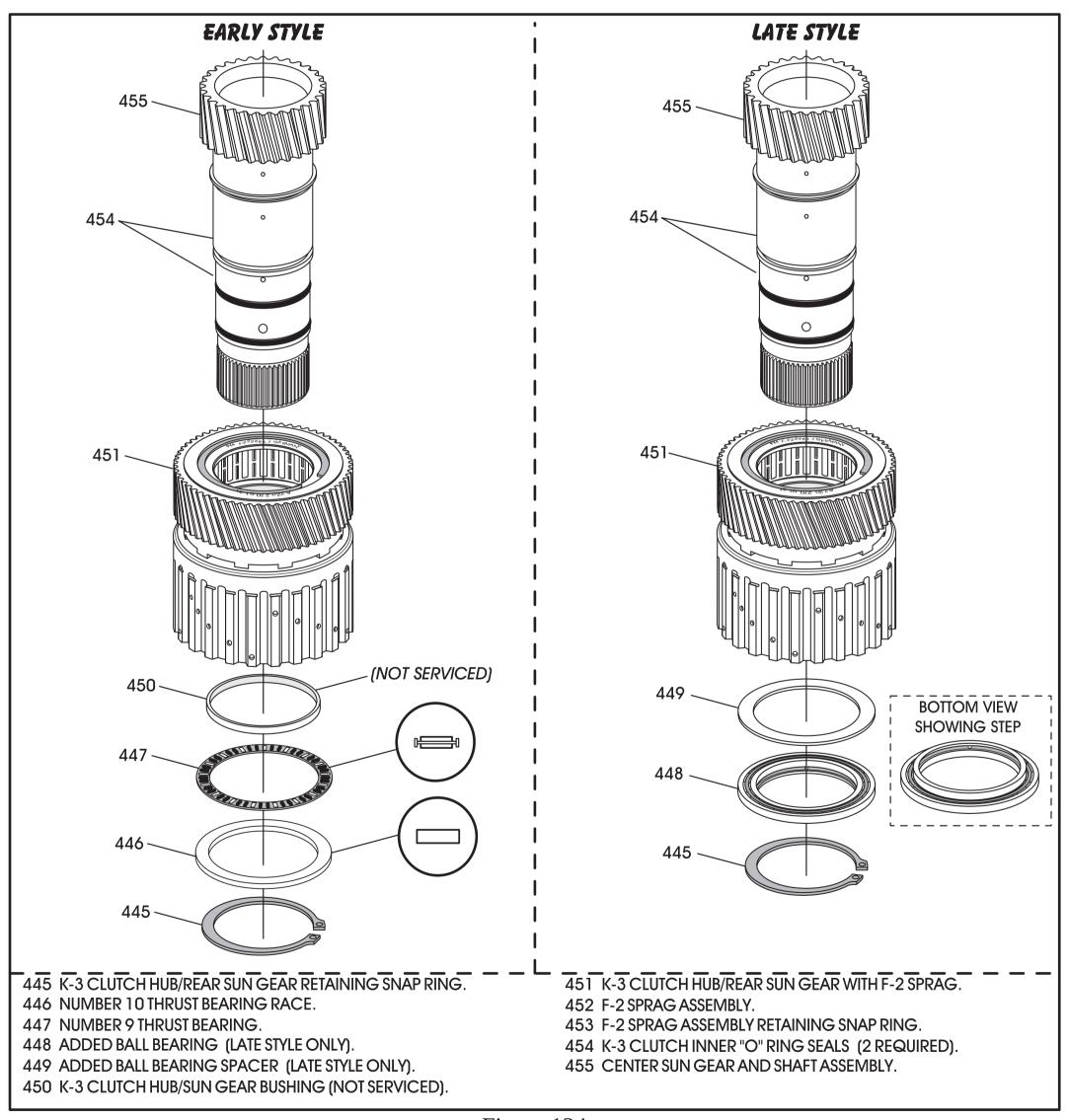


Figure 124



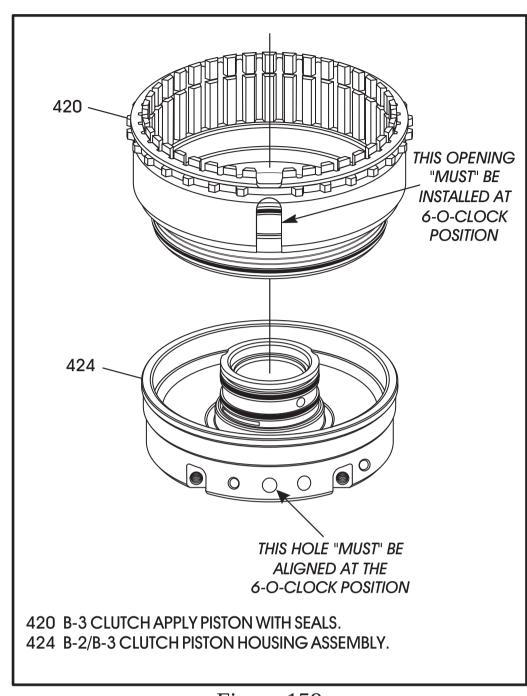


Figure 159

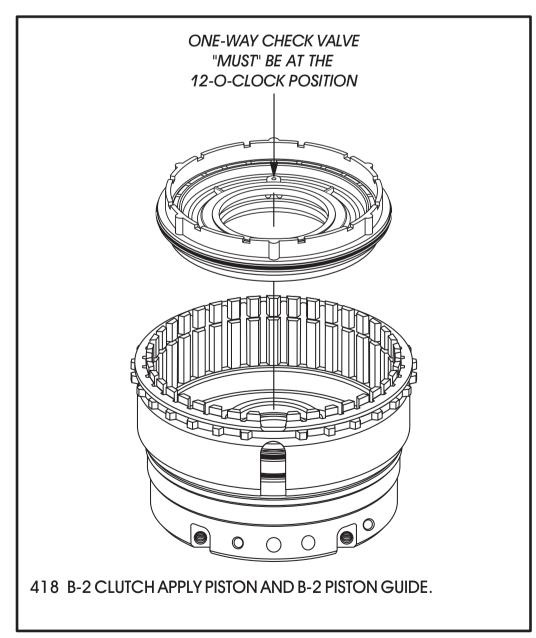


Figure 160

COMPONENT REBUILD (CONT'D)

B-2 Clutch Housing Assembly (Cont'd)

- 16. Place B-2/B-3 clutch piston housing assemby on a flat work surface with the hole shown in Figure 159 at *exactly* the 6-O-clock position.
- 17. Install B-3 clutch apply piston with opening at *exactly* the 6-O-clock position, as shown in Figure 159.
 - Note: Steps 16 and 17 must be followed "exactly" as written. Align perfectly after piston is installed, if necessary.
- 18. Install the B-2 apply piston with B-2 piston guide installed, as shown in Figure 160.

 Note: 1-way check valve must be installed "exactly" at the 12-O-clock position and is shown in Figure 160.
- 19. Install the B-2/B-3 piston return spring in the direction shown in Figure 161.
- 20. Install B-2/B-3 piston return spring retainer, as shown in Figure 161.
- 21. Compress the return spring and retainer and install the snap ring, as shown in Figure 161. Everything done properly, it goes right on.

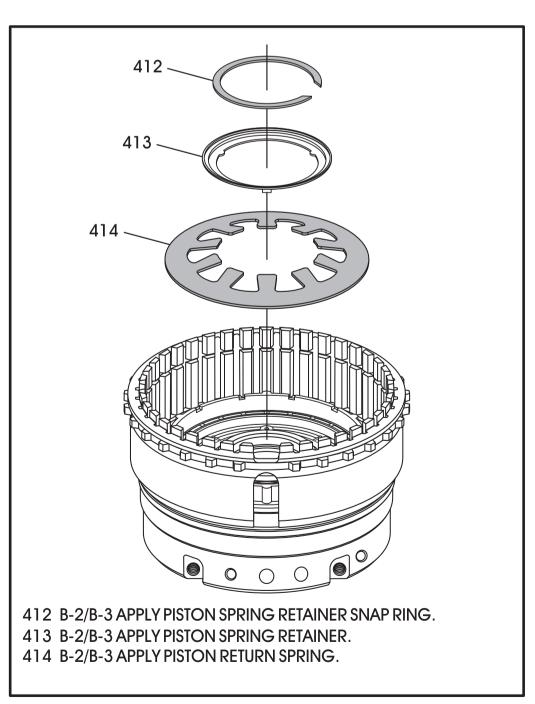


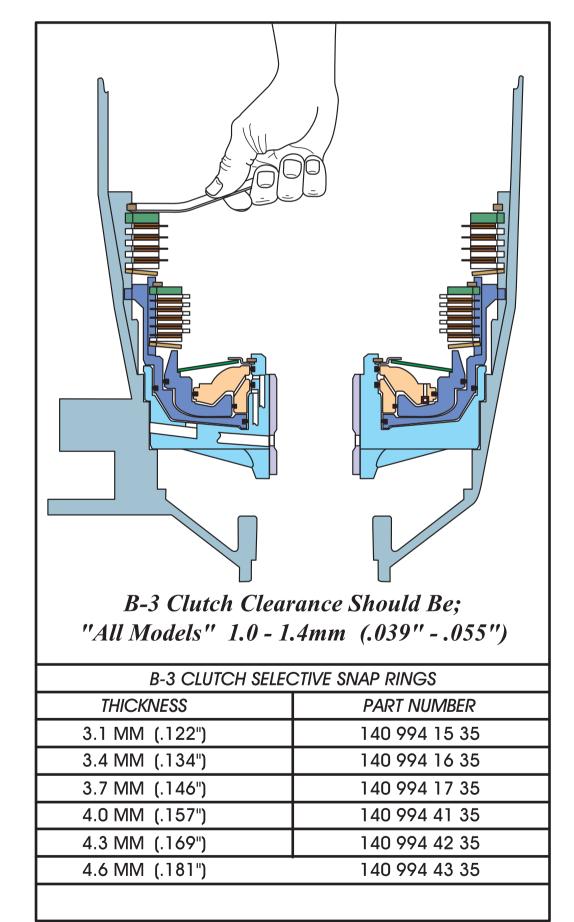
Figure 161



TRANSMISSION FINAL ASSEMBLY (CONT'D)

- 9. Measure B-3 clutch clearance using a feeler gauge between the selective snap ring and the backing plate, as shown in Figure 179.
- 10. B-3 clutch clearance is the same for all models and should be 1.0 1.4mm (.039" .055"), as shown in Figure 179.
- 11. Change the selective snap ring as necessary to obtain the proper clutch clearance. There are 6 different snap ring thickness' available and are listed in Figure 179.
- 12. Install the completed center and rear planetary gearset, as shown in Figure 180, by rotating back and forth as you have 2 sets clutches to engage.
- 13. Slide yoke on the output shaft splines to assist in rotating the assembly, if necessary.

 Note: Ensure number 5 thrust bearing is still in place, as shown in Figure 180. The number 4 thrust bearing race was installed on the K-2 clutch housing.



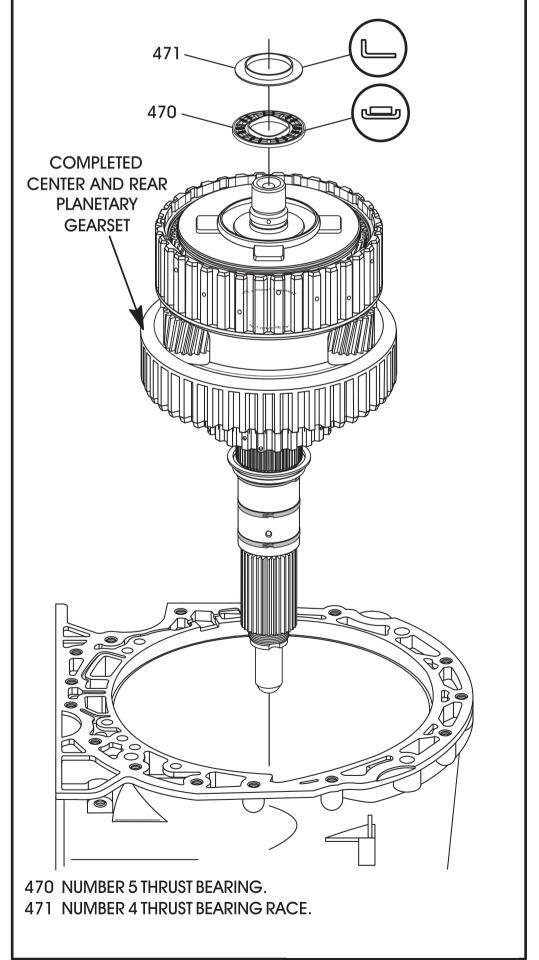


Figure 179 Figure 180

