



Technical Service Information

THM 4L60 (700-R4)

PREMATURE 3-4 CLUTCH FAILURE

COMPLAINT: After rebuild, the vehicle exhibits premature 3-4 clutch failure, sometimes in as little as 2000 miles of use. Usually associated with Police, Taxi, or heavy duty use.

CAUSE: The cause may be, not using the high energy clutch plates, and the thick (.106") steel plates, or not enough line pressure rise with throttle opening.

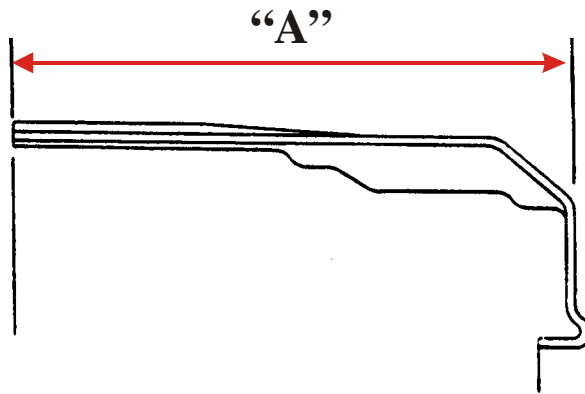
CORRECTION: Install the latest design 3-4 clutch pack from General Motors that allows the use of the thickest (.106") steel plates and requires the following parts:

1. New design 3-4 Apply Ring with shorter legs (See Figure 1).
2. New design one piece 3-4 Apply Plate (See Figure 2).
3. New design .106" thick 3-4 Steel Plates, 5 required (See Figure 3).
4. New design high energy 3-4 Friction Plates, 6 required (See Figure 3).
5. New design 3-4 Selective Backing Plate, as they are thinner (See Figure 4).
6. Re-install the 3-4 Load Release Springs in the late design stack-up (See Figure 5).
7. *Note:* Ensure that you have .050"-.070" clutch clearance (See Figure 4).

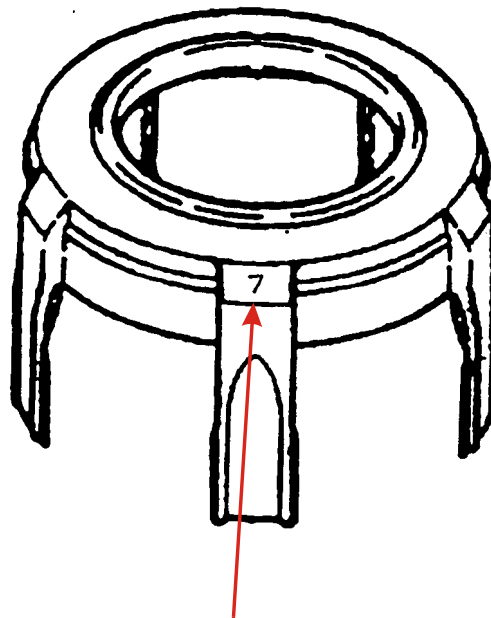
There is now available from Trans-Go@ a new Vacuum Modulator Kit, that does solve the line pressure rise with throttle opening problems that are associated with the 4L60-E. This new kit replaces the EPC (Force Motor) with a vacuum modulator and includes all necessary parts for the installation.

3-4 Clutch Apply Ring (New Design)	8685043
3-4 Clutch Apply Plate (New Design)	8685044
3-4 Clutch Steel Plates (.106" Thick)	8685045
3-4 Clutch Backing Plate (Selective .227", Stamped "A")	8685046
3-4 Clutch Backing Plate (Selective .192", Stamped "B")	8685047
3-4 Clutch Backing Plate (Selective .157", Stamped "C")	8685048
3-4 Load Release Springs	8667424
3-4 Clutch Service Package (1987- 1994)	
Includes parts listed above, plus the 2050 friction plates	8690923

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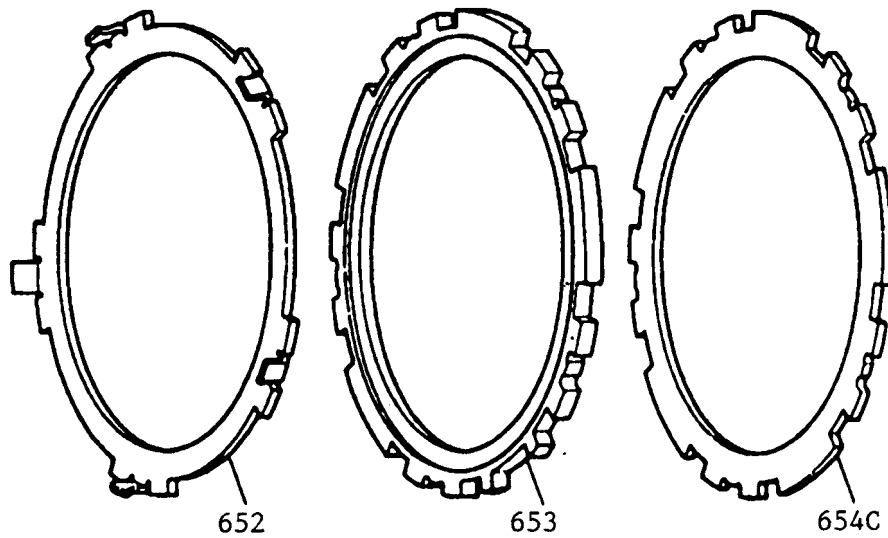


DIMENSION "A" IS 3.671" - 3.682" (93.26mm - 93.52mm)



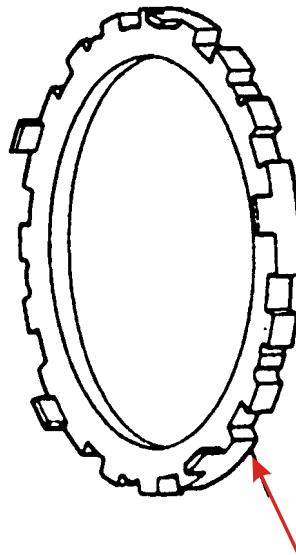
IDENTIFICATION STAMP "7"

Figure 1



- 652 - CLUTCH RETAINER RING
653 - CLUTCH STEPPED APPLY RING
654C - CLUTCH FLAT APPLY RING

NEW DESIGN APPLY PLATE



NEW DESIGN APPLY PLATE REPLACES
ALL THREE PIECES ABOVE

Figure 2

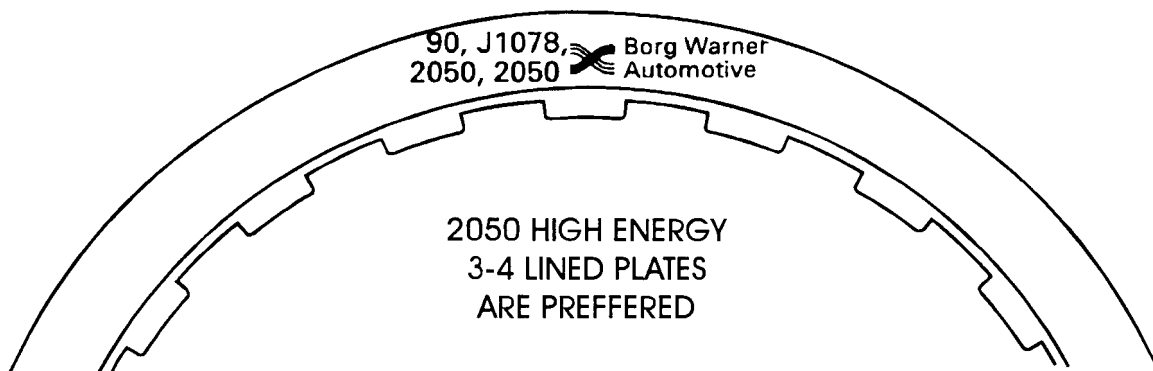
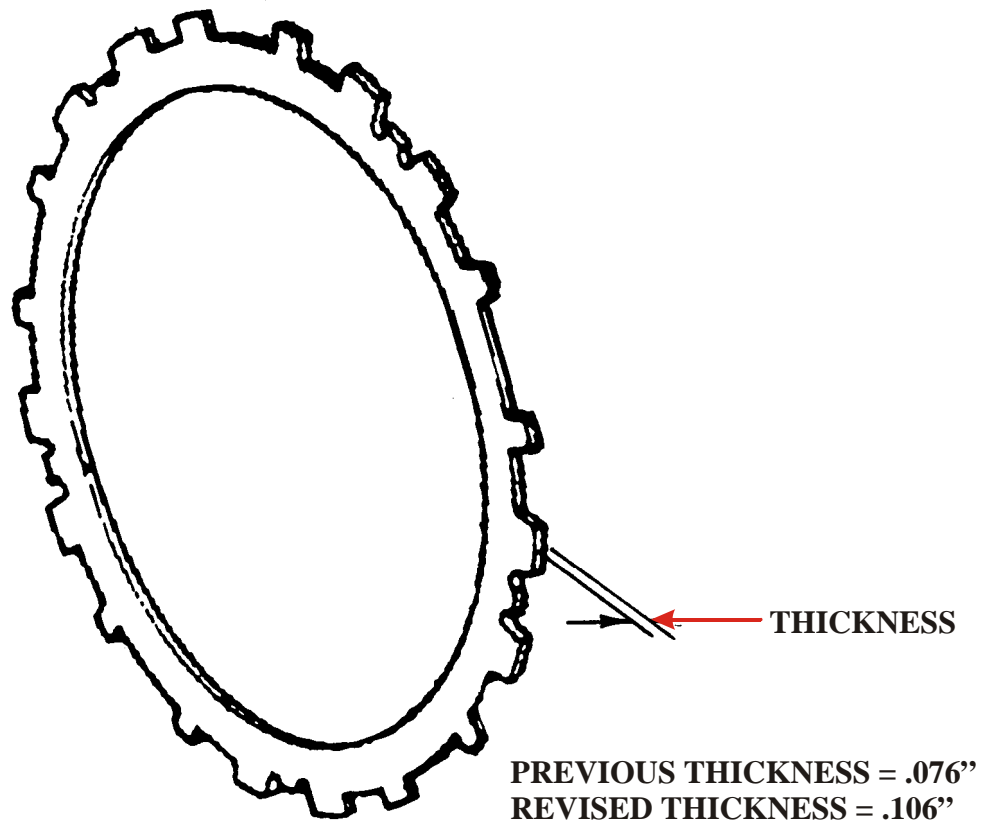
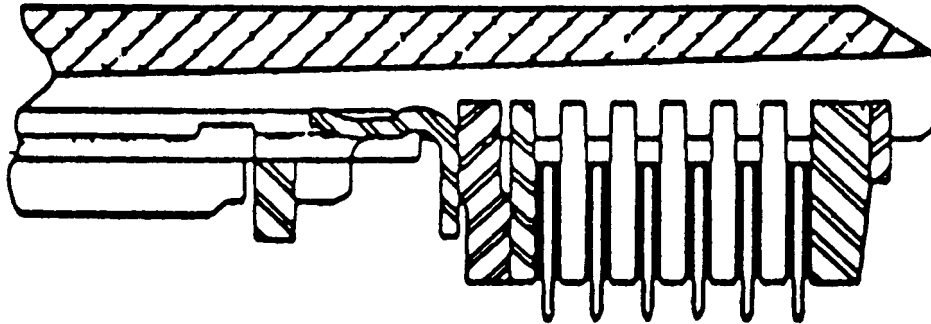


Figure 3

PREVIOUS 3-4 CLUTCH STACK-UP



NEW 3-4 CLUTCH STACK-UP

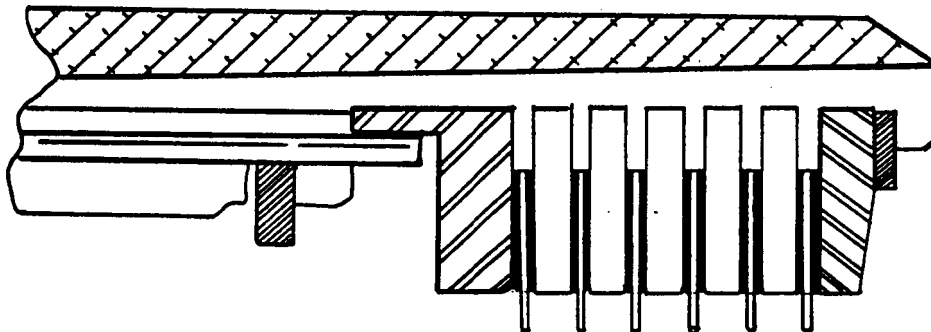


Figure 4

RE-USE THE 3-4 LOAD RELEASE SPRINGS IN THE NEW DESIGN CLUTCH PACK ONLY

Re-install the 3-4 load release springs when you are using the .106" thick steel plates, 2050 high energy lined plates, new design 3-4 apply ring, new design one piece apply plate, and new design backing plate.

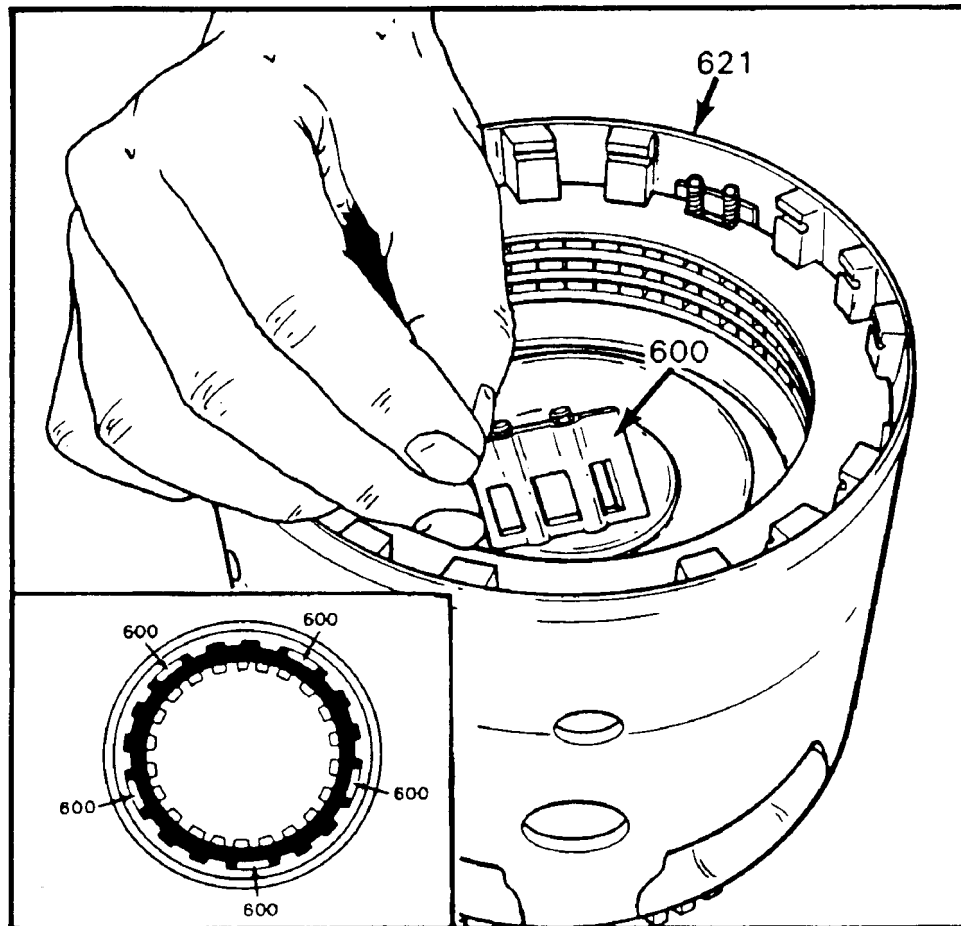


Figure 5