



Technical Service Information

THM 4L60 AND 4L60-E 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 NUMBER 1:

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

CORRECTION NUMBER 2:

There is available from Trans-Go® a new Vacuum Modulator Kit, that *does solve* the line pressure rise with throttle opening concerns that are associated with the 4L60-E unit. This new kit replaces the EPC Solenoid with a vacuum modulator and includes all necessary parts for the installation.

SERVICE INFORMATION:

| | |
|---------------------------------------------------------------|----------|
| 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 Friction Plates (High Energy) | 24207605 |

3-4 Clutch Service Package (1987-1998)

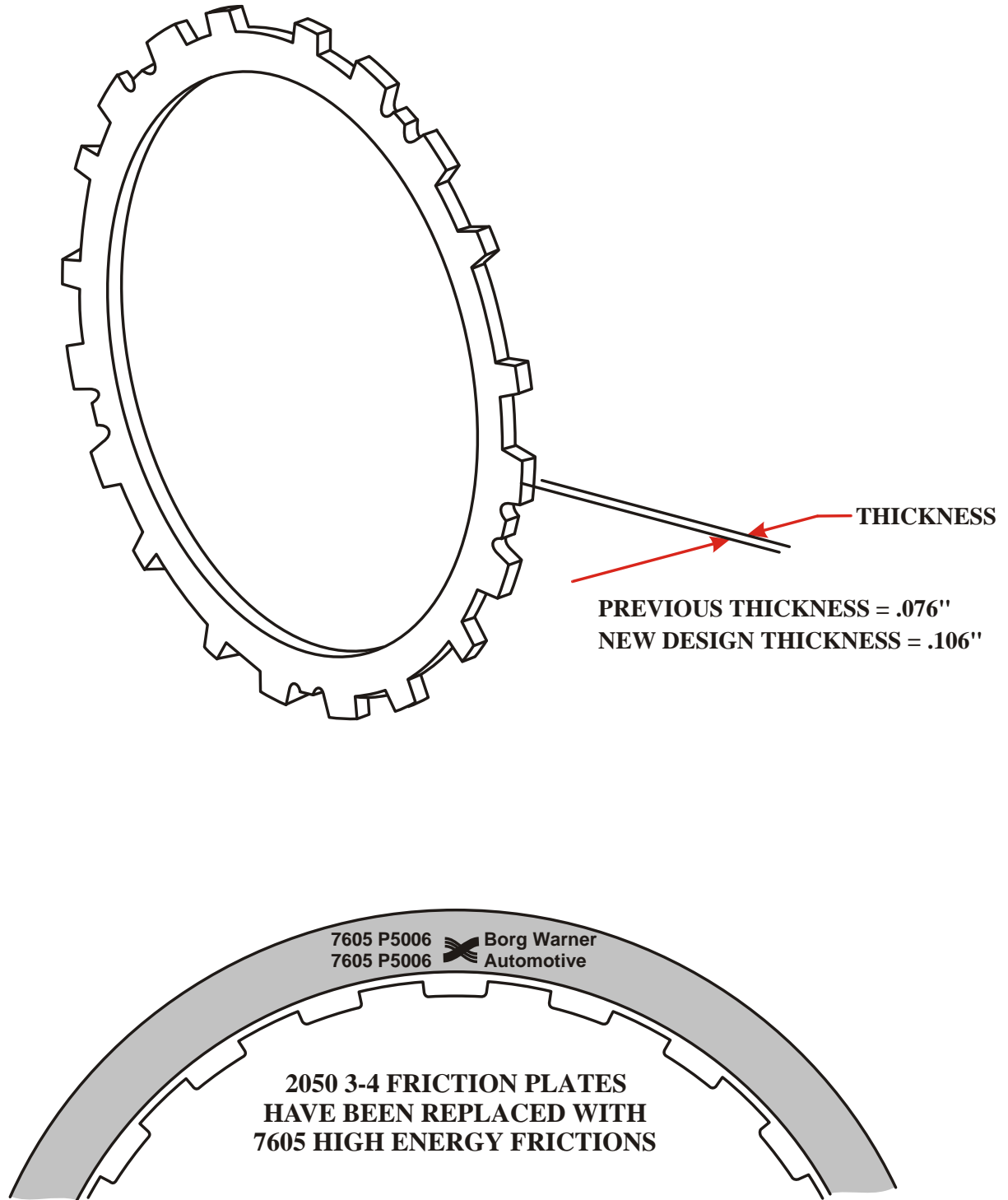
Includes the parts listed above, plus the 7605 friction plates 8690923

SPECIAL NOTE:

The 2050 high energy friction plates normally associated with the above kit have been replaced with the 7605 high energy friction plates for increased durability. Refer to Figure 1. The 2050 high energy friction plates have been discontinued.

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3-4 CLUTCH LINED AND STEEL PLATES

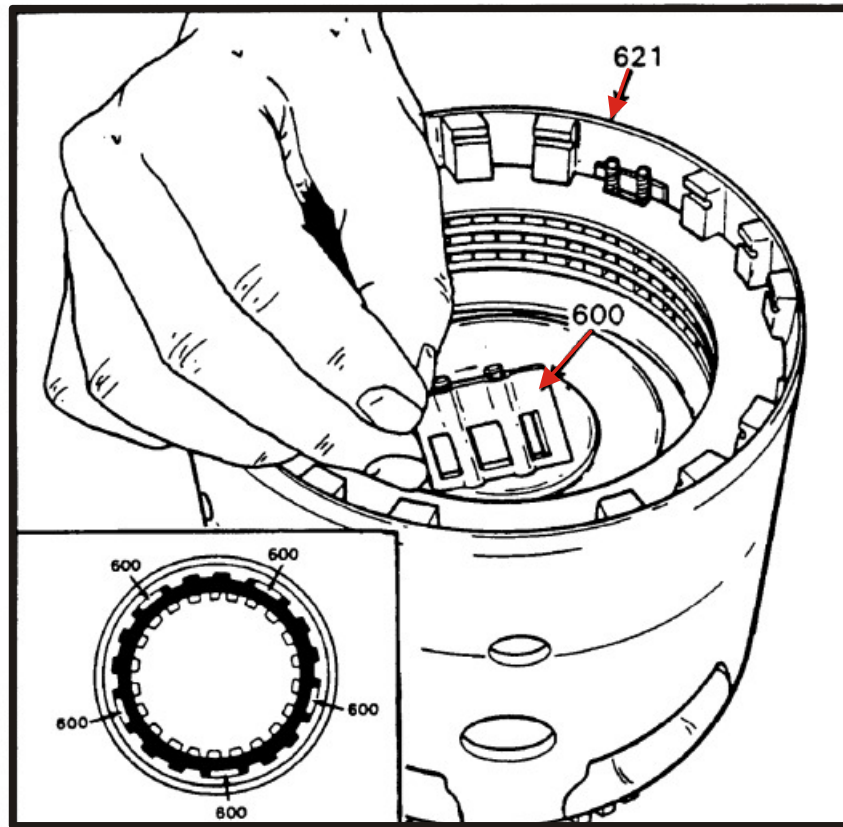


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Figure 1

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, 7605 high energy lined plates, new design 3-4 apply ring, new design one piece apply plate and new design backing plate.



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Figure 2