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# INSTRUCTION SHEET

**TORONADO & EL DORADO 425  
(Front Wheel Drive)**

## SHIFT KIT

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THIS KIT IS DESIGNED TO IMPROVE THE PERFORMANCE AND DURABILITY OF:

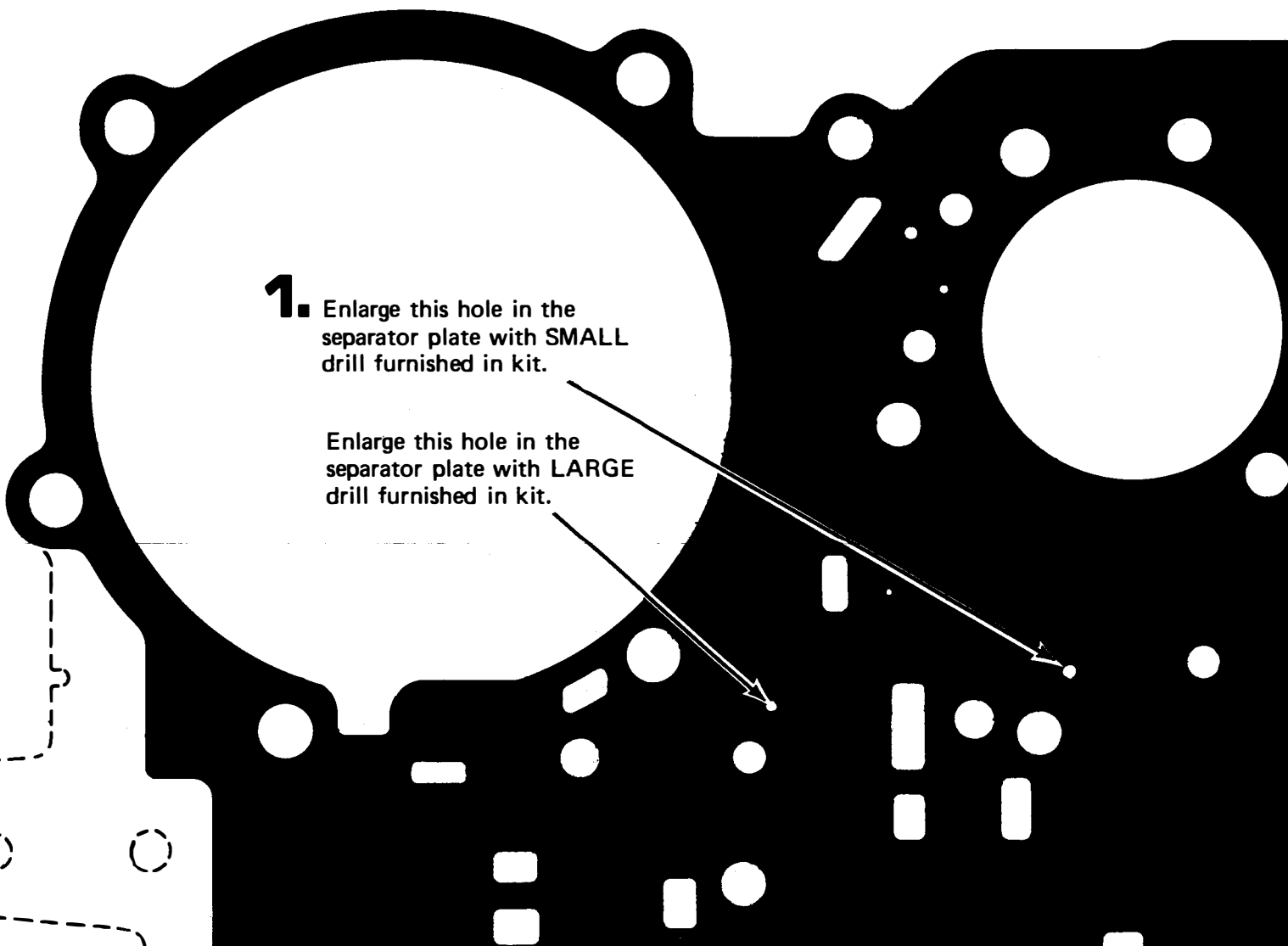
1. Transmissions that are still in good working condition.
2. Transmissions that are being overhauled.

This "SHIFT PERFORMANCE KIT" will let you give your customer the response and durability he expects. Your customer will tell you "it never worked so good."

**CORRECTS: Soft Late Shifts**

**REDUCES: Clutch Slippage**

**FURNISHES: Crisp Performance**

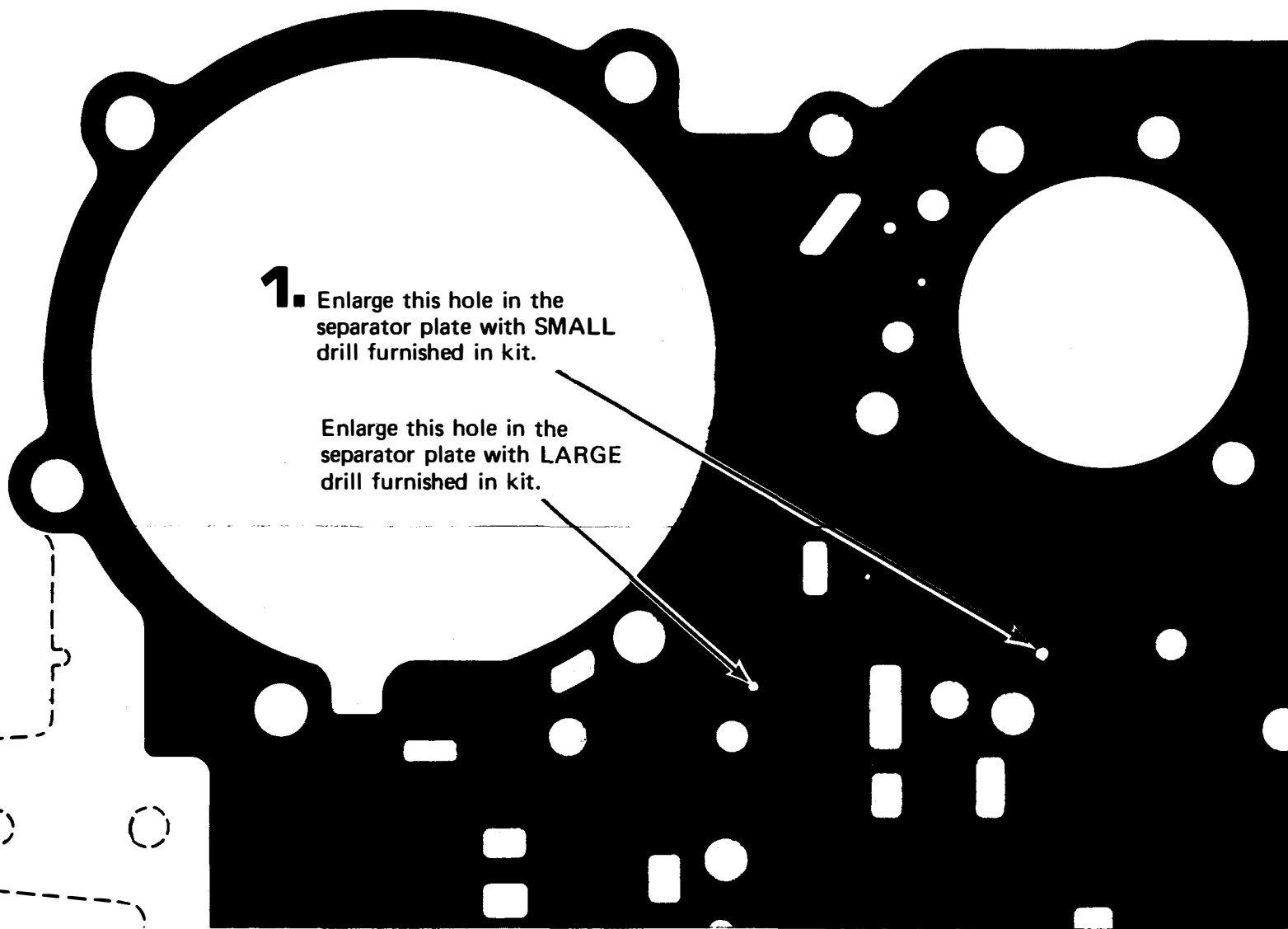
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- 1.** Enlarge this hole in the separator plate with **SMALL** drill furnished in kit.

Enlarge this hole in the separator plate with **LARGE** drill furnished in kit.

THIS SOLENOID MOUNTING TAB WAS OMITTED ON 68 MODELS AND LATER.

- 2.** When this Shift Kit is being installed with the transmission in the car, place check balls (7) at locations shown on separator plate.

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CHECK BALLS (7)

**ASSEMBLY TIPS:** Grease separator plate lightly and stick gasket to each side. Put a small amount of heavy grease at each check ball location, so that ball will not fall off plate during assembly.

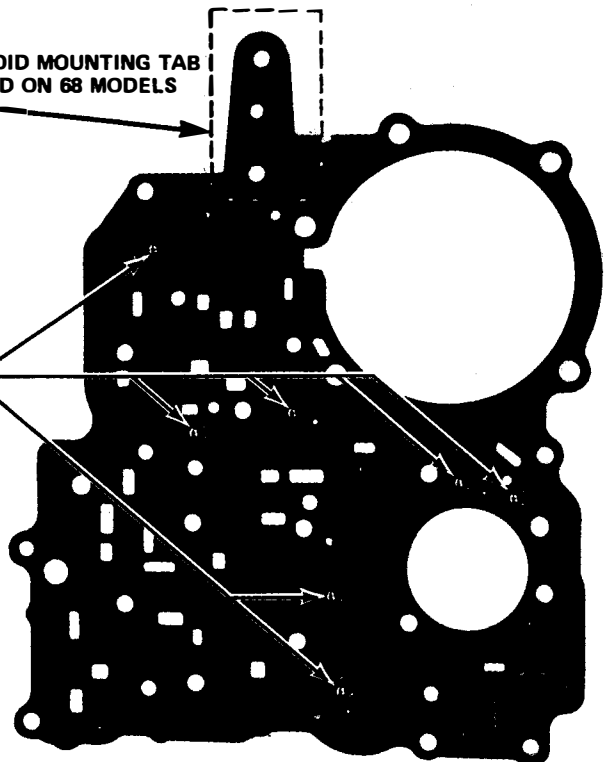
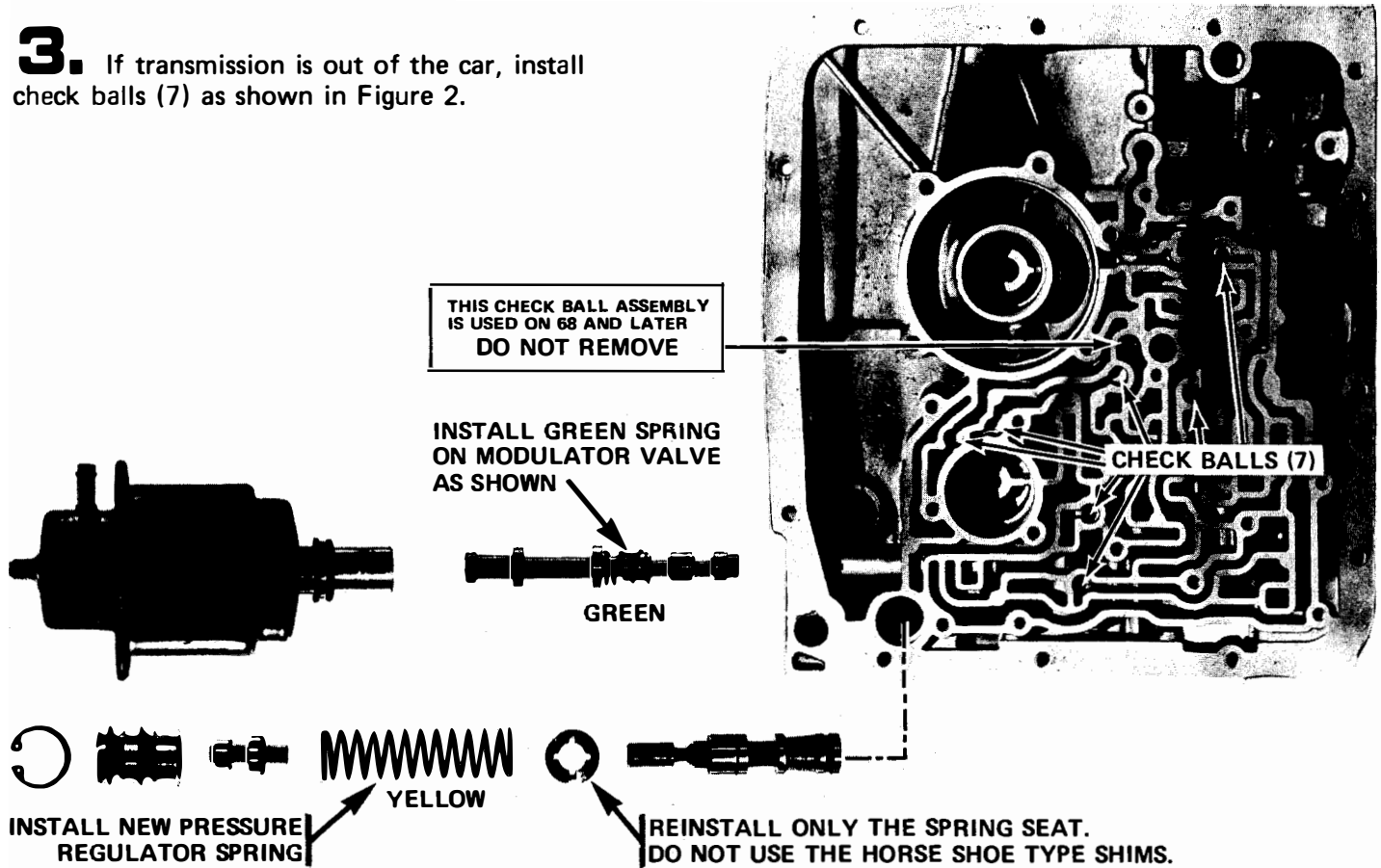


Figure 1.

Figure 2.

**3.** If transmission is out of the car, install check balls (7) as shown in Figure 2.



## ADDITIONAL INFORMATION

**4.** VERY IMPORTANT: Restricted vacuum flow is one of the common causes of trouble with this type of transmission.

**Check:** With engine idling, pull off vacuum hose at the modulator. Engine must speed up with hose off. If engine does not speed up, vacuum is restricted.

**Correction:** Check for collapsed hose. Clean and drill out restrictions in tube or fittings with 1/16 or larger drill. If vacuum line is squeezed to make restriction, cut out that portion of the line and replace it with vacuum hose.

**5.** Many service departments install this kit in new or nearly new cars to prevent soft shift and late shift complaints and "just out of warranty" failures.

**DURING OVERHAUL THE FOLLOWING SHOULD ALWAYS BE DONE TO INSURE PROPER BREAK-IN OF FRICTION MATERIALS.**

**ALL FRICTION PLATES** should be pre-soaked in automatic transmission fluid for no less than 30 minutes before installation.

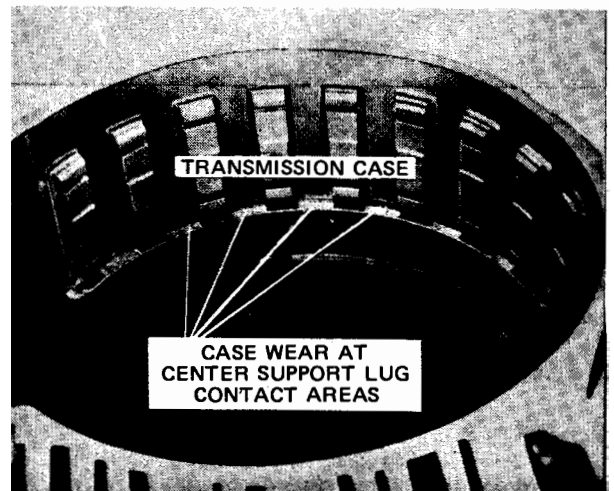
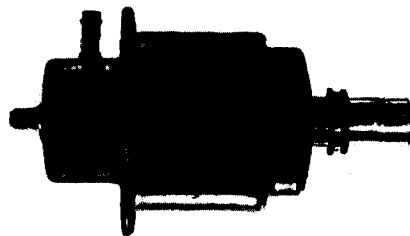


Figure 3.

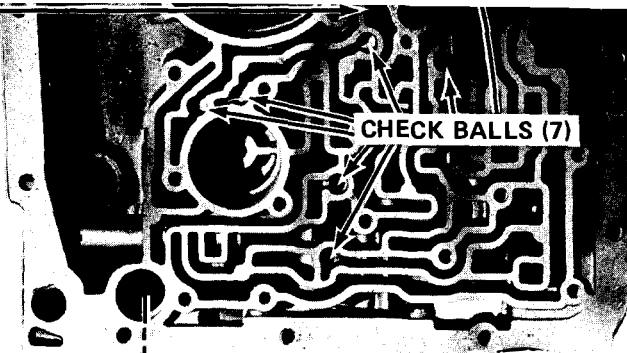
**6.** CASE WEAR AT CENTER SUPPORT LUG CONTACT AREAS

This is the main wear problem that has driven many a good man right up the wall. Wear at this point (Figure 3) allows excessive center support movement and misalignment. This can cause — high clutch failure — late or no 2-3 shift when hot — failure of rear thrust washer — shudder or snapping during 1-2 shift — falls out of high when hot —

DO NOT REMOVE



INSTALL GREEN SPRING ON MODULATOR VALVE AS SHOWN



INSTALL NEW PRESSURE REGULATOR SPRING



REINSTALL ONLY THE SPRING SEAT. DO NOT USE THE HORSE SHOE TYPE SHIMS.

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Dry lining on clutch plates acts as an insulator that holds friction heat on the plate surface. This causes premature clutch failure due to surface glazing or burning.

A thoroughly pre-soaked plate quickly dissipates surface heat through the fluid retained in paper lining.

**STEEL CLUTCH DISCS:** Time-wise it is far less expensive to use new discs. If old steel discs are to be reused, they should be refinished with 120-180 emery cloth or sandpaper. Rub until sanding marks are visible over entire area of plate. Sanding removes polished surface, restoring new roughness for proper clutch application and break-in.

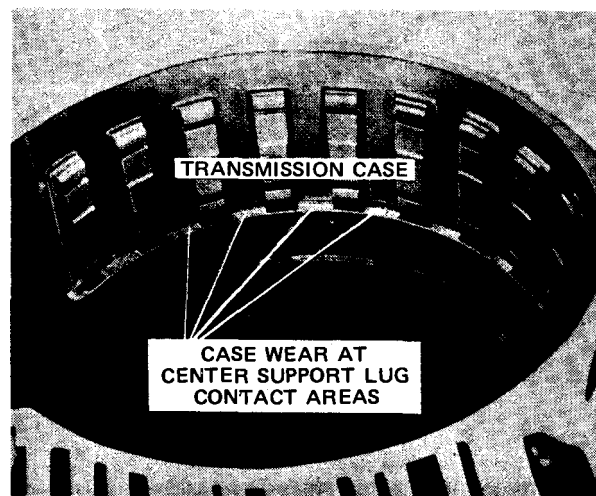


Figure 3.

## 6. CASE WEAR AT CENTER SUPPORT LUG CONTACT AREAS

This is the main wear problem that has driven many a good man right up the wall. Wear at this point (Figure 3) allows excessive center support movement and misalignment. This can cause — high clutch failure — late or no 2-3 shift when hot — failure of rear thrust washer — shudder or snapping during 1-2 shift — falls out of high when hot — center support bushing wear — front planetary noise and stator support failure.

IT IS NOT NECESSARY TO REPLACE THE CASE.

A replacement center support is available with a steel shim that installs under the support giving it a solid seating surface.

Part Number 8625990.

Having trouble with an Automatic Transmission?  
Need some FRESH-NEW ideas?  
Phone Collect Area (213) 283-4520  
FREE-QUICK-ACCURATE  
REPAIR INFORMATION

