

FOUR-SPEED MANUAL (SAGINAW) TRANSMISSION

GENERAL DESCRIPTION

The Saginaw four-speed fully synchronized (all forward gears) transmission, incorporating helical gears throughout, is available only on special order and is engineered to operate only on Firebird Sprint (six cylinder engine with 4 bbl. carburetor) models.

The gear ratios of this transmission are 3.11 in first, 2.20 in second, 1.47 in third, 1.00 in fourth and 3.11 in reverse gears. The transmission is identified by the two-letter yellow paint code FH, found on the right side of the transmission case.

Gearshifting is manual, through floor gearshift controls only, and the shift lever assembly is attached to the partial frame rear crossmember, through an L shaped bracket, for improved isolation from engine movement.

A driveline damper is used to reduce power train vibration to an acceptable level. The damper is mounted under the rear of the transmission extension and consists of a weight retained by a mounting which, in turn, is attached to the underside of the transmission extension through an adapter (Fig. 7D-1).

LINKAGE ADJUSTMENT - FLOOR SHIFT

1. Move selector lever to neutral position.

NOTE: Align lever in neutral position by inserting a locating pin (5/16" dia.) into notch of lever and bracket assembly.

2. Loosen swivel jam nuts on transmission gearshift control rods (first and second, third and fourth and reverse) (Fig. 7D-2).

3. Set shifter levers (first and second, third and fourth and reverse) on transmission side cover in neutral.

4. Make necessary adjustments to align shift control rods and transmission shifter levers and tighten swivel jam nuts to 25 lb. ft. torque.

5. Remove locating pin and check shift for proper operation.

SERVICE AND REPAIRS

Service procedures for the Firebird Sprint four-speed Saginaw transmission assembly are the same as shown in Section 7D of the 1967 Pontiac Service Manual.

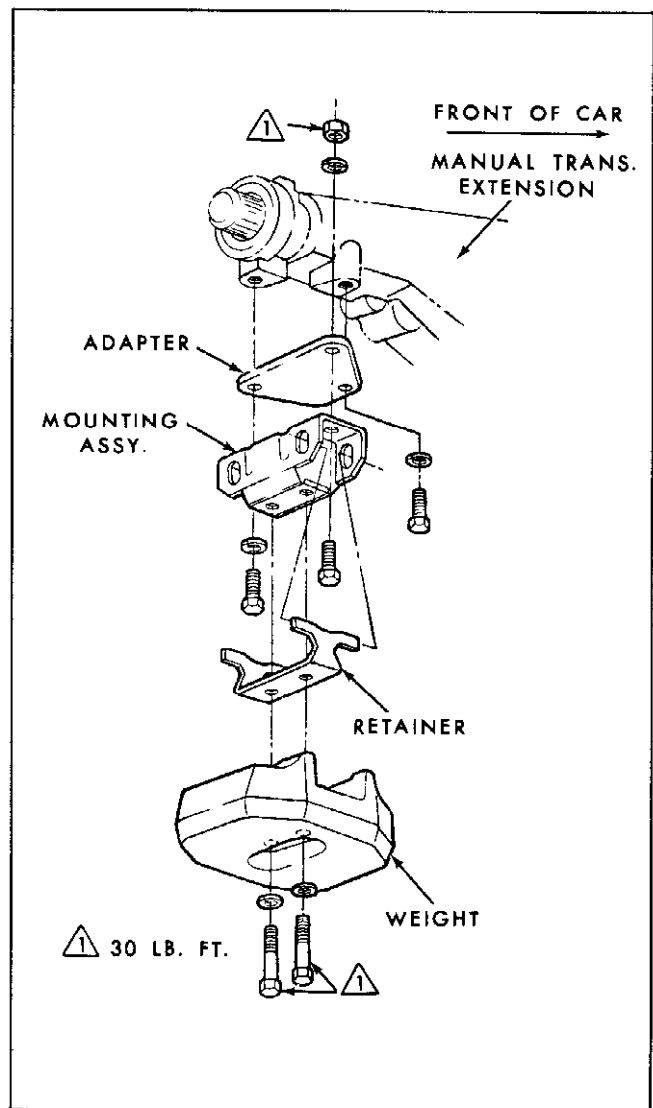


Fig. 7D-1 Driveline Damper

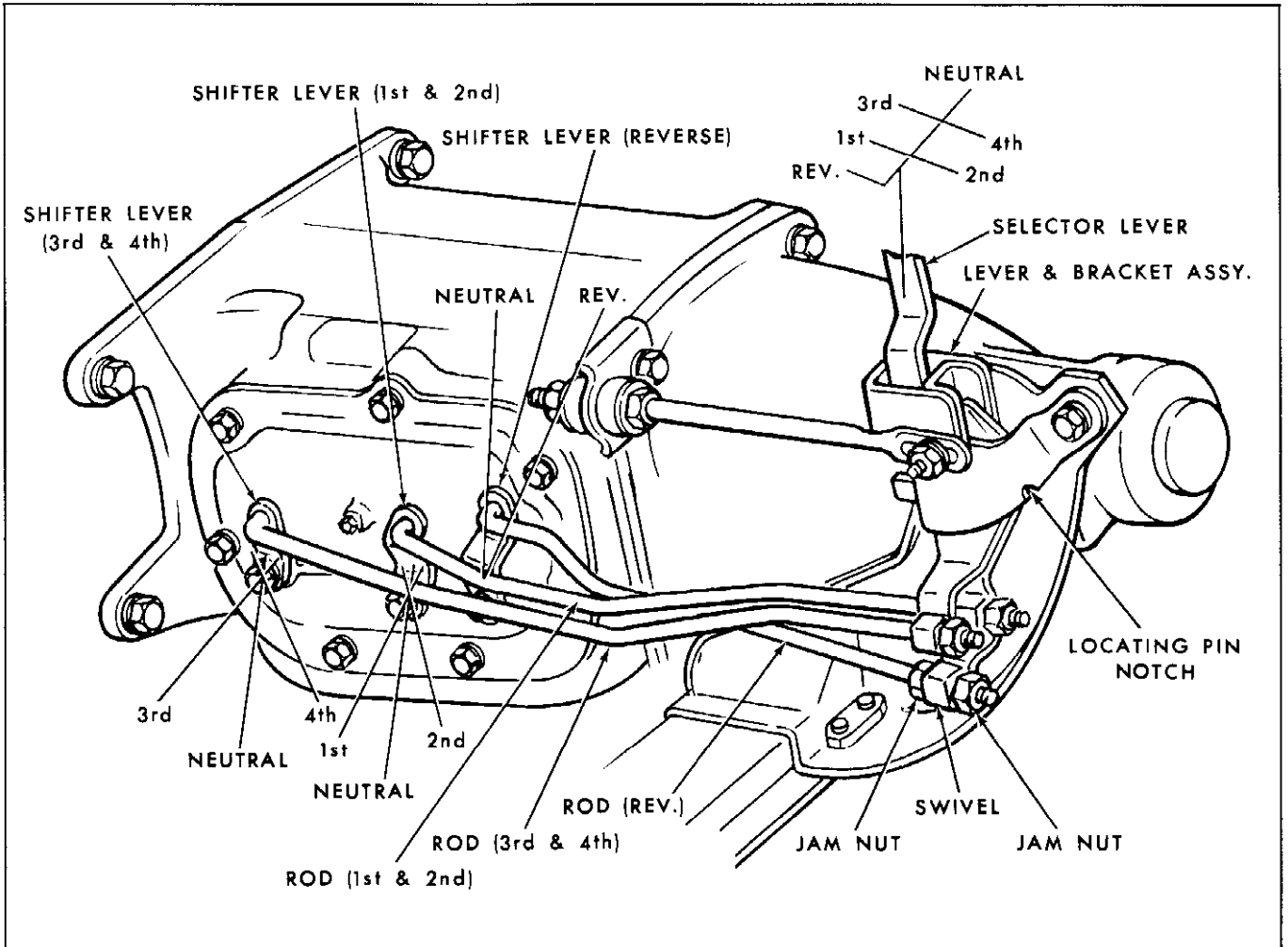


Fig. 7D-2 Gearshift Controls - Floor Shift