

STANDARD THREE-SPEED MANUAL (SAGINAW) TRANSMISSION

GENERAL DESCRIPTION

The Saginaw three-speed fully synchronized (all forward gears) transmission, incorporating helical drive gears throughout, is used as standard equipment on all Firebird models except 400 cu.in. engine models.

The First gear ratio for six cylinder engine models is 2.85 to 1 and this transmission is identified by the two-letter yellow paint code FK, found on the right side of the transmission case.

The First gear ratio for 326 cu.in. engine models is 2.54 to 1 and this transmission is identified by the two-letter yellow paint code RJ, found on the right side of the transmission case.

Column mounted gearshift controls are standard equipment for six cylinder one barrel carburetor models, while floor mounted shift controls are standard for the optional six cylinder four barrel carburetor equipped models.

For the optional 326 cu.in. two or four barrel carburetor models, column mounted gearshift controls are standard equipment, while floor mounted shift controls are optional on each of these models. These floor mounted shift lever assemblies are attached to the partial frame rear crossmember, through an L shaped bracket, for improved isolation from engine movement.

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

LINKAGE ADJUSTMENT - COLUMN SHIFT

1. Move selector lever to neutral position.

NOTE: Align shift levers in neutral position by inserting a gage pin through holes in levers as shown in view A, figure 7B-2.

2. Loosen nuts on idler lever swivel (view B) and First and Reverse shifter lever swivel (see view C).

3. Set both shifter levers on transmission in neutral. Neutral detents in transmission side cover must be engaged to make this adjustment correctly.

NOTE: To check, start engine with clutch disengaged, then release clutch slowly.

4. Make necessary adjustments to align shift control rods and transmission levers in neutral and tighten swivel nuts to 20 lb. ft. torque.

5. Remove gage pin and check complete shift pattern.

LINKAGE ADJUSTMENT - FLOOR SHIFT

1. Move selector lever (A) with its levers (C and D) Fig. 7B-3 to neutral position.

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

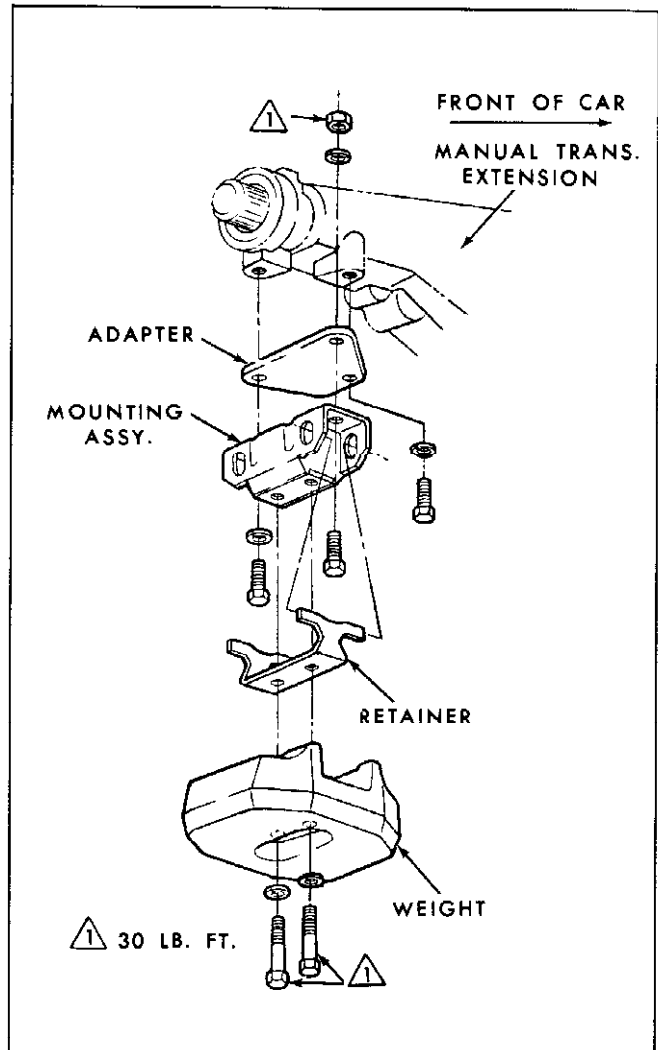


Fig. 7B-1 Driveline Damper

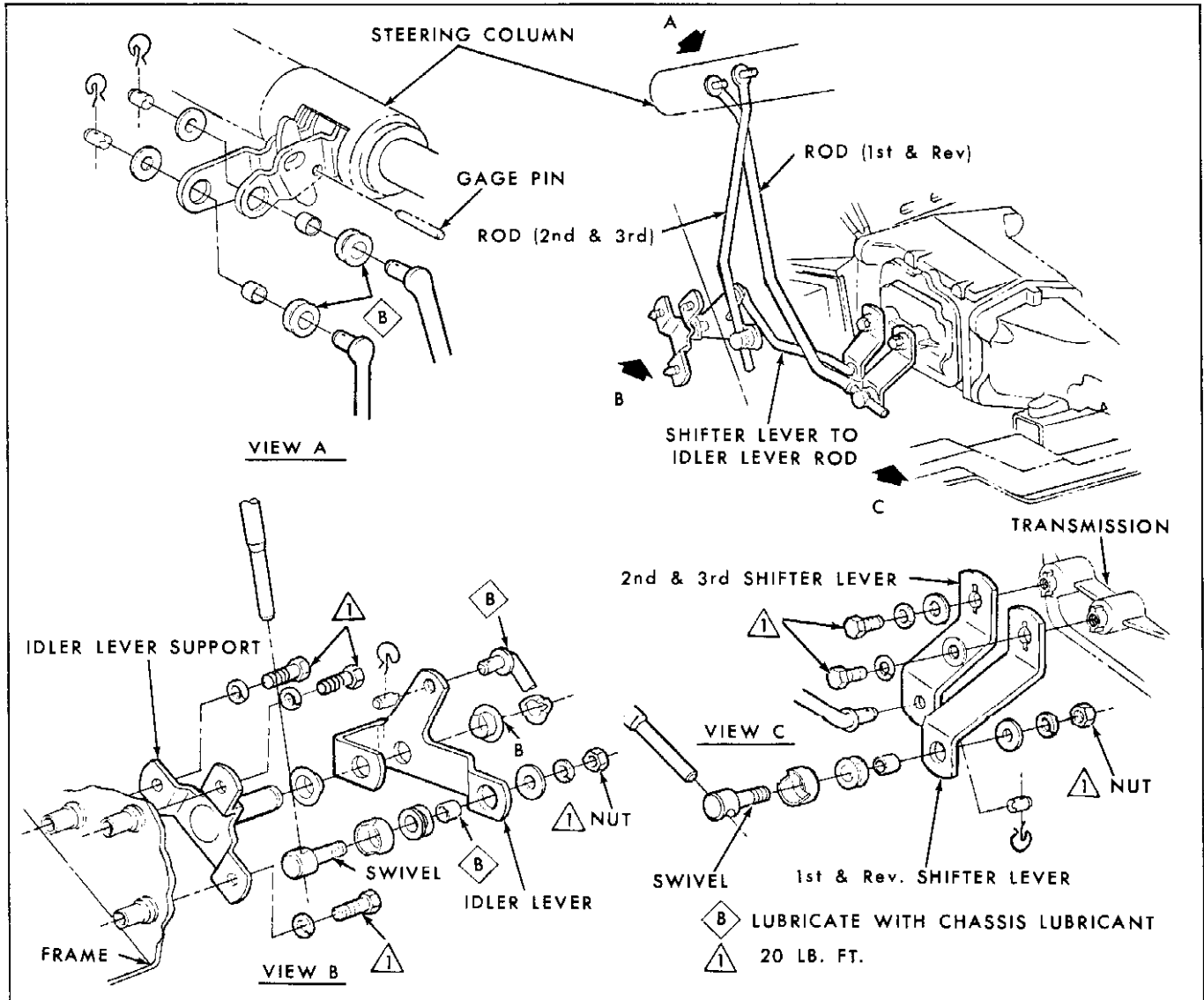


Fig. 7B-2 Gearshift Controls - Column Shift

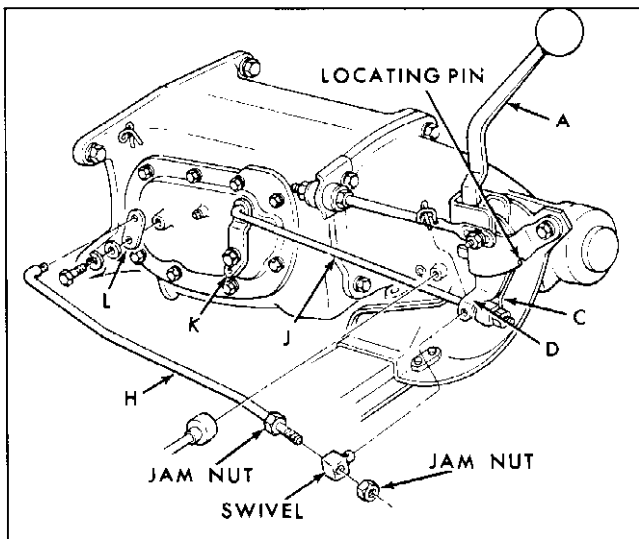


Fig. 7B-3 Gearshift Controls - Floor Shift

2. Loosen swivel jam nuts on transmission gearshift control rods (J and H).

3. Set both shifter levers (L and K) on transmission side cover in neutral.

4. Make necessary adjustments to align shift control rods and transmission shifter levers in neutral and tighten swivel jam nuts to 20 lb. ft. torque.

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

SERVICE AND REPAIRS

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