

Condition	Possible Cause	Correction
(b) Loose synchronizer hub spline fit on mainshaft.	(b) Loose synchronizer hub spline fit on mainshaft.	(b) Inspect mainshaft and synchronizer hub and replace parts as necessary.
(c) Damaged, broken or excessively worn gear teeth.	(c) Damaged, broken or excessively worn gear teeth.	(c) Replace worn gears.
(d) Rough or pitted bearing race or balls.	(d) Rough or pitted bearing race or balls.	(d) Replace worn bearing.

SERVICE PROCEDURES

SERVICE IN VEHICLE

FOUR SPEED GEARSHIFT

Removal (Figs. 3, 4, 5 and 6)

- (1) Disconnect negative (ground) cable from battery.
- (2) Remove console and wiring if so equipped (See Body Section 23).
- (3) Remove retaining screws from floor pan boot and slide up and off shift lever.
- (4) Remove shift lever using a .010" feeler gauge as a tool to release the internal spring clip as shown in (Fig. 8).
- (5) Remove retaining clips, washers and control rods from shift unit levers.
- (6) Remove two bolts and washers which secure shift unit to mounting plate on extension housing and remove unit.

Installation (Figs. 3, 4, 5 and 6)

- (1) Fasten unit to extension housing mounting plate with two bolts and lock washers and tighten to 30 foot-pounds.
- (2) Install shift rods, washers and clips.
- (3) See next paragraph for adjustment procedure.
- (4) Push Shift lever down into shift unit far enough for spring to click and lock lever in place. Pull up on lever to make sure it is locked in.
- (5) Slide boot down over lever and fasten to floor pan.
- (6) Install console and connect wiring if so equipped (See Body Section 23).
- (7) Reconnect battery cable.

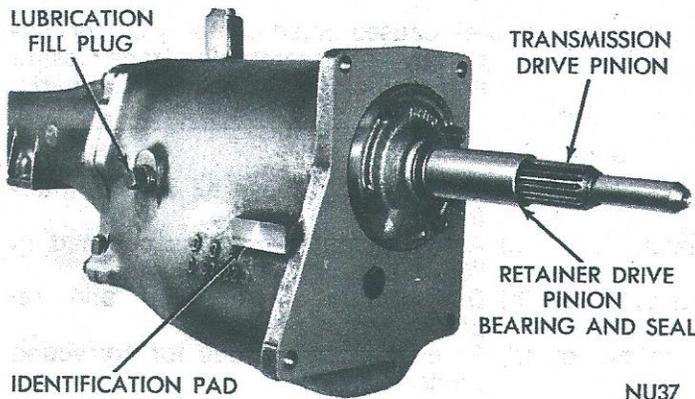


Fig. 2—Four Speed Transmission Identification Pad

GEARSHIFT LINKAGE ADJUSTMENT

- (1) Install floor shift lever aligning Tool C-3951 (Fig. 9) to hold the levers in neutral-crossover position.
- (2) With all rods removed from transmission shift levers, place levers in neutral detent position.
- (3) Rotate threaded shift rods to make length exactly right to enter transmission levers. Start with 1-2 shift rod (it may be necessary to pull clip at shifter end to rotate this rod).
- (4) Replace washers and clips.
- (5) Remove aligning tool and test shifting action.

COLUMN LOCK LINKAGE (Fig. 7)

For removal or installation of these parts, follow the arrangement of parts shown in (Fig. 7).

LINKAGE ADJUSTMENT

- (1) Loosen the adjustable rod swivel clamp bolt.
- (2) Place transmission in reverse gear.
- (3) At the steering column, line up locating slots at bottom of shift housing and bearing housing. Install suitable tool in slots to hold alignment.
- (4) Tighten adjustable swivel clamp bolt to 125 inch-pounds.

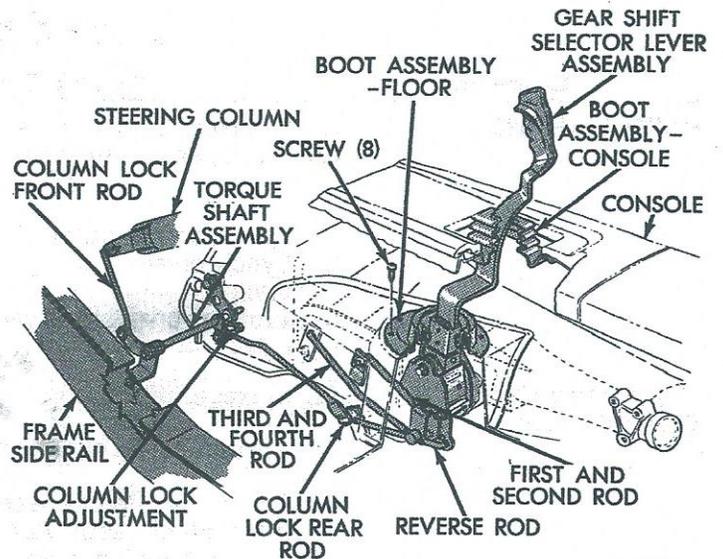


Fig. 3—Gearshift Mechanism—Assembled (Typical for Dart)