

Dodge

**Service
Manual**

**Challenger
Dart**

1970

Condition

Possible Cause

Correction

- | | |
|---|--|
| (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) Replace worn gears. |
| (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.

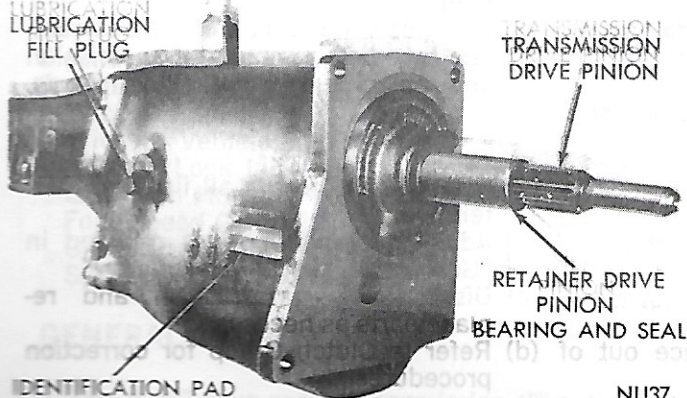


Fig. 2—Four Speed Transmission Identification Pad

GEARSHIFT LINKAGE ADJUSTMENT

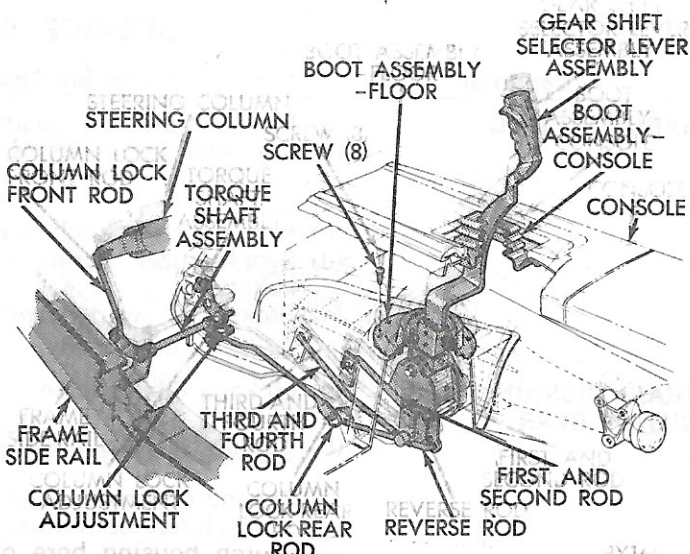
- (1) Install floor shift lever aligning Tool C-3951 (Fig. 9) to hold the levers in neutral-crossover position.
- (2) With all rods removed from transmission shift levers, place levers in neutral detent position.
- (3) Rotate threaded shift rods to make length exactly right to enter transmission levers. 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.



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