ARROW & COLT

Arrow
Colt

DESCRIPTION

Clutch is a diaphragm spring, single disc type. Operation is controlled mechanically by a cable. Clutch release bearing is sealed and permanently lubricated.

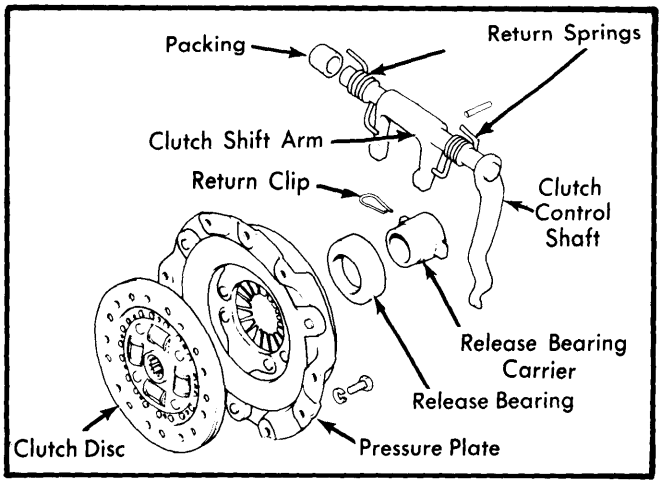

Fig. 1 Exploded View of Clutch Assembly

REMOVAL & INSTALLATION

CLUTCH ASSEMBLY

1) With battery disconnected, air cleaners removed and battery cables disconnected from starter, remove starter. Remove two bolts from top of transmission.

2) Inside vehicle, remove dust cover retaining plate and four bolts securing gearshift lever assembly to vehicle. NOTE – *Lever should be in 2nd gear on 4-speed transmission models and in 1st gear on 5-speed transmission models.*

3) With car raised and supported on jack stands, drain transmission fluid. Remove speedometer cable and electrical leads from transmission, then remove bolts from rear of propeller shaft and remove shaft from transmission.

4) Disconnect exhaust system from brackets, then disconnect clutch cables. With transmission supported by a jack, remove insulators from crossmembers by removing attaching bolts. NOTE – *Jack should be placed under transmission oil pan, making sure support area is as wide as possible.*

5) Remove each crossmember from frame by pulling off sideways. Remove clutch inspection cover, then remove remaining transmission to engine attaching bolts. Pull transmission to rear and remove from vehicle. NOTE – *Use care not to twist front end of main drive gear.*

6) Insert a suitable clutch centering tool (MD998017) into center of clutch to prevent clutch disc from falling. Loosen clutch attaching bolts alternately and evenly until pressure plate can be removed. Remove pressure plate and clutch disc.

7) To install, reverse removal procedure and note the following: Use a suitable clutch centering tool (MD998017) to center clutch disc on flywheel. Adjust clutch cable and clutch pedal.

CLUTCH CABLE

Removal – Loosen cable adjusting wheel inside engine compartment, then loosen clutch pedal lock nut. Remove clutch cable from pedal lever, then remove cable from clutch shift lever and remove.

Installation – To install clutch cable, reverse removal procedure and note the following: Apply engine oil as necessary to install cable. On 2000 cc models, install pads at battery cable area of starter and at rear of engine front insulator. On 1600 cc models, pads are installed at alternator side and at side of engine front support insulator.

CLUTCH RELEASE BEARING & SHIFT ARM

Removal – With transmission removed, remove return clip on transmission side, then slide off release bearing carrier and release bearing. Using a 3/16" punch, remove shift arm spring pin and control lever assembly, then remove the shift arm and return springs.

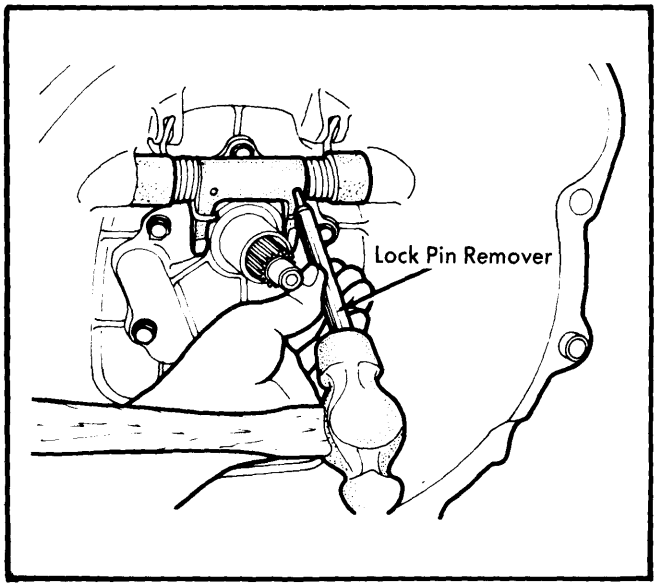

Fig. 2 Using a 3/16" Punch to Remove Shift Arm Spring Pin

Installation – 1) Insert lever and shaft into transmission case from left side.

2) Install onto shaft:
- Shift arm
- 2 felt packings
- Return springs

3) Apply grease to inside of bushing. Oil seal lips.

4) Oil felt packings.

5) Drive in 2 shift arm springs pins. Face spring pin slots UP. See *Fig. 2*.

ARROW & COLT (Cont.)

ADJUSTMENT

PEDAL ADJUSTMENT

1) Move pedal adjusting bolt *(See Fig. 3)* until distance between toe board and top face of clutch pedal is 6.5-6.7" (165-170 mm).

2) Make sure pedal stroke is at least:
- 5.9" (170 mm) Coupe, Hatchback, and Sedan
- 5.1" (130 mm) Hardtop and Station Wagon

NOTE – *Make sure height difference between clutch pedal and brake pedal is not more than .4" (10 mm).*

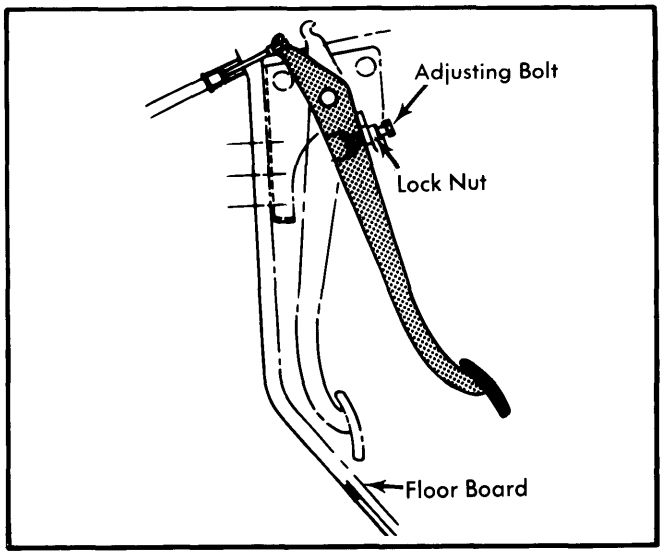

Fig. 3 Clutch Pedal Adjustment Procedure

CLUTCH CABLE

1) Pull outer cable from holder at bulkhead.

2) Set cable-to-adjuster wheel clearance to .20-.24" (5-6 mm). *See Fig. 4.*

NOTE – *One full turn of adjuster wheel will change clearance approximately .06" (1.5 mm).*

3) Check that pedal free play is 0.8-1.4" (20-35 mm).

4) Make sure distance between floor board and clutch pedal (in released position) is 1.4" (35 mm).

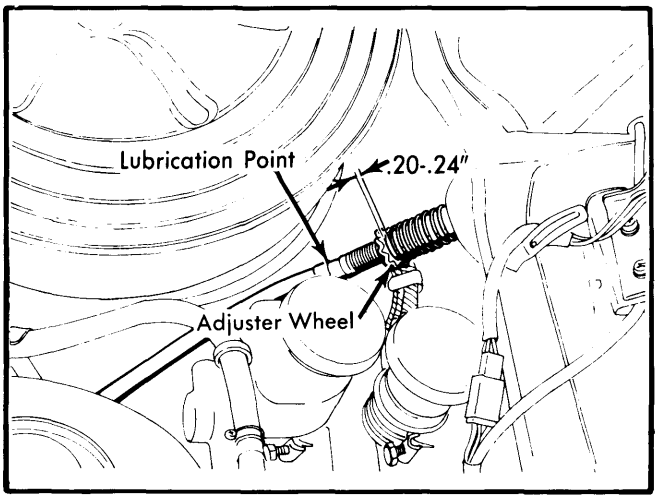

Fig. 4 Clutch Cable Adjustment Procedure and Lubricant Point

TIGHTENING SPECIFICATIONS

Application	Ft. Lbs. (mkg)
Transmission-to-Engine	22-30 (3.0-4.15)
Transmission-to-Engine Flange Bolts	32-39 (4.4-5.4)
Starter Bolts	16-23 (2.2-3.2)