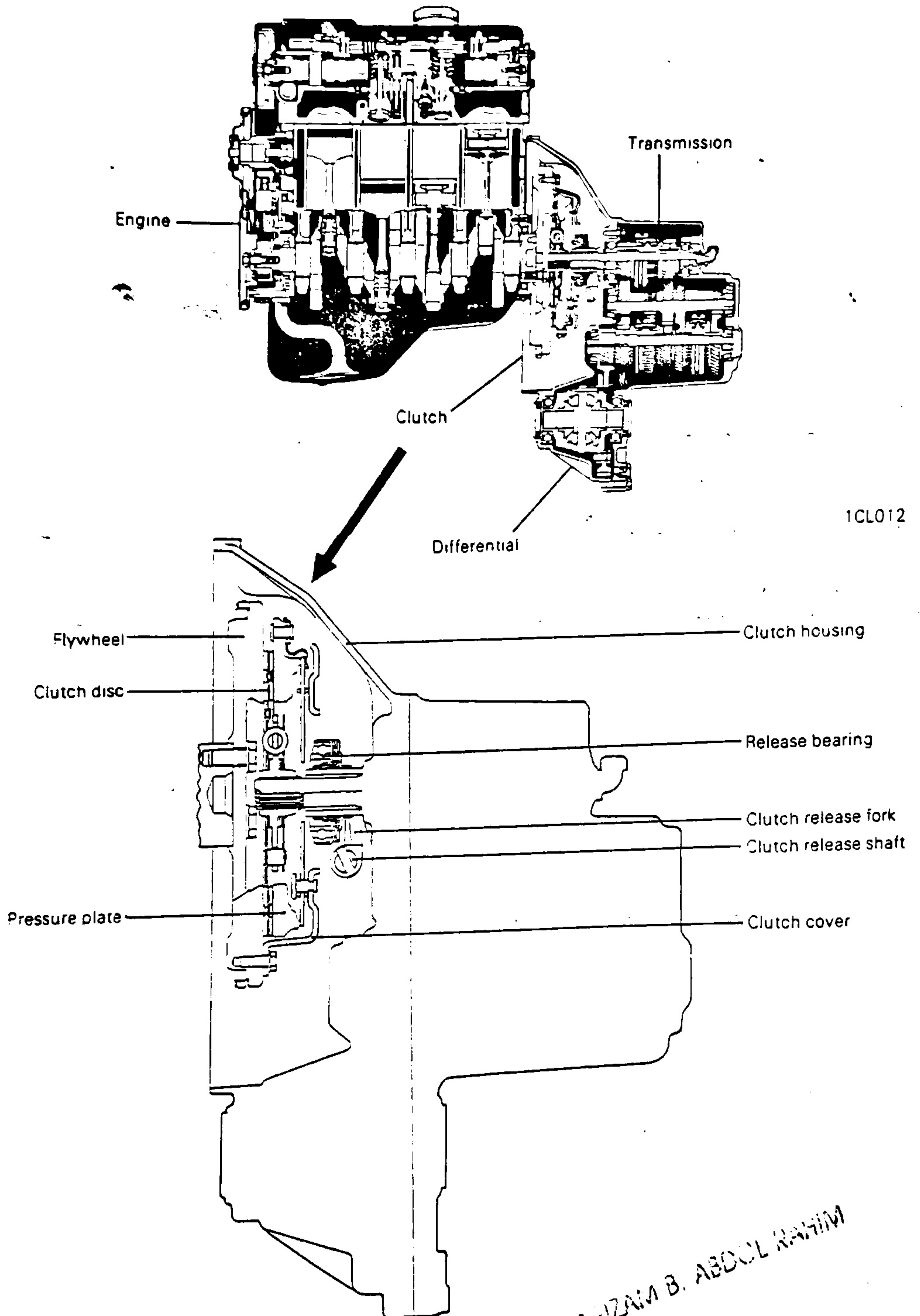


GENERAL



SECTIONAL VIEW



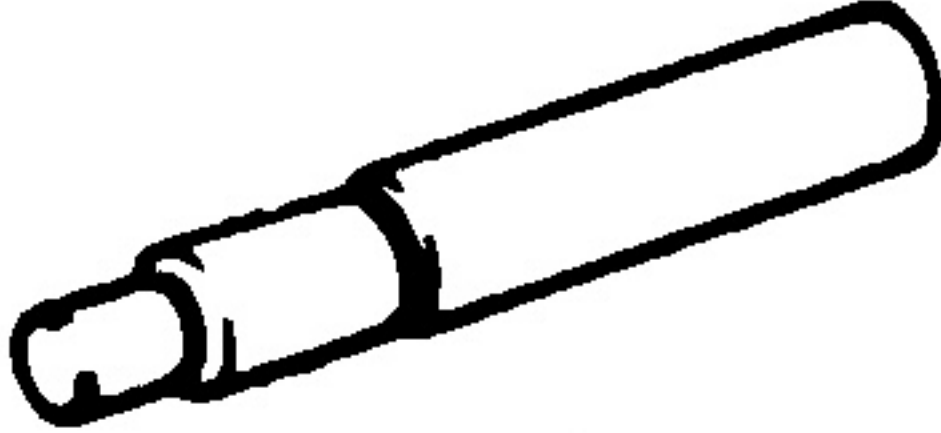
1CL012

1CL013

MARIZAM B. ABDUL RAHIM



SPECIAL TOOLS

Tool (Number and name)	Use	Tool (Number and name)	Use
MD998126 Clutch disc guide	Centering of clutch disc	MD998245 Lock pin installer	Installation of spring pin
			
MD998019 Lock pin extractor	Remove of spring pin		
			

ON-VEHICLE SERVICE

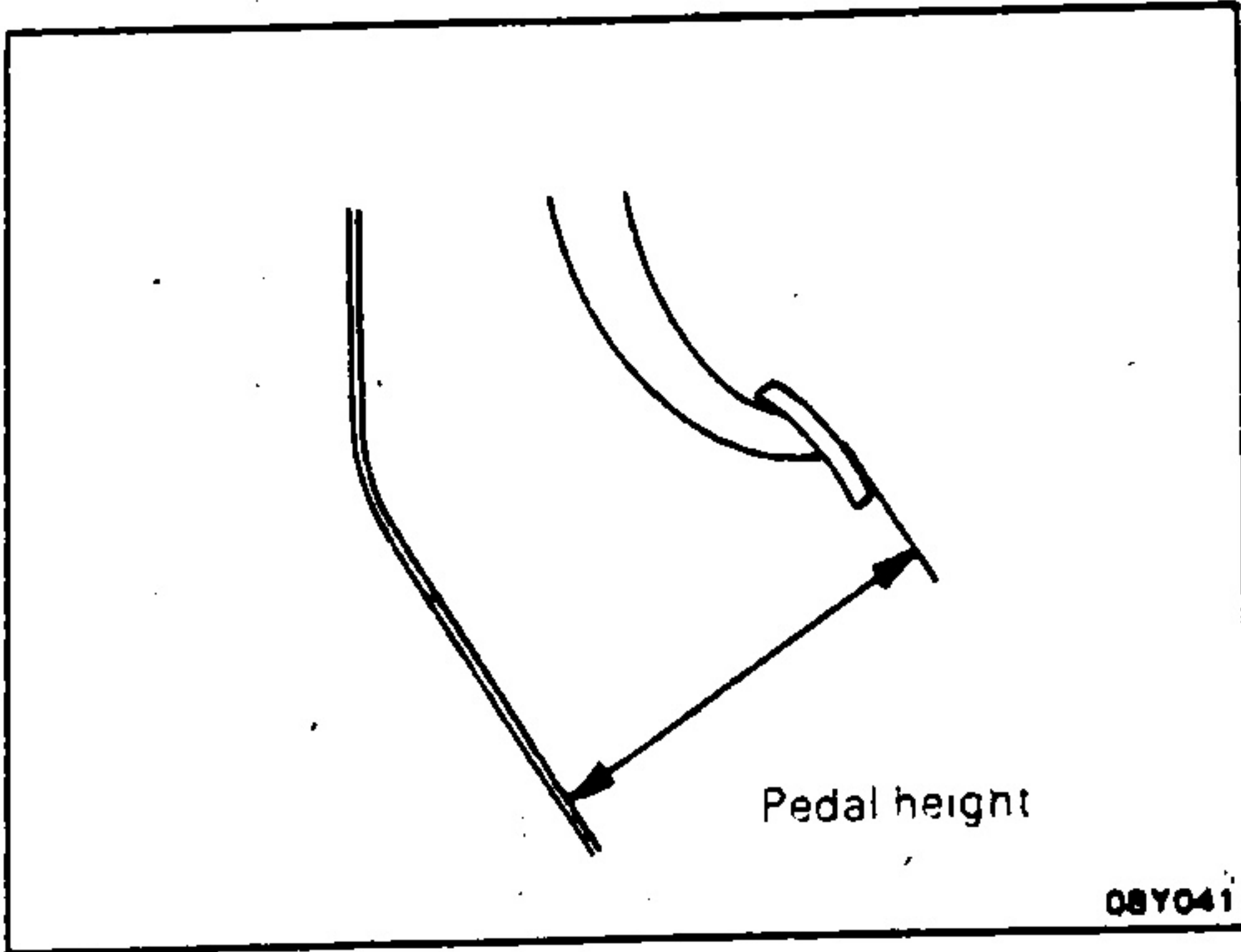
Inspection and Adjustment of Clutch Pedal

Measure the clutch pedal height.

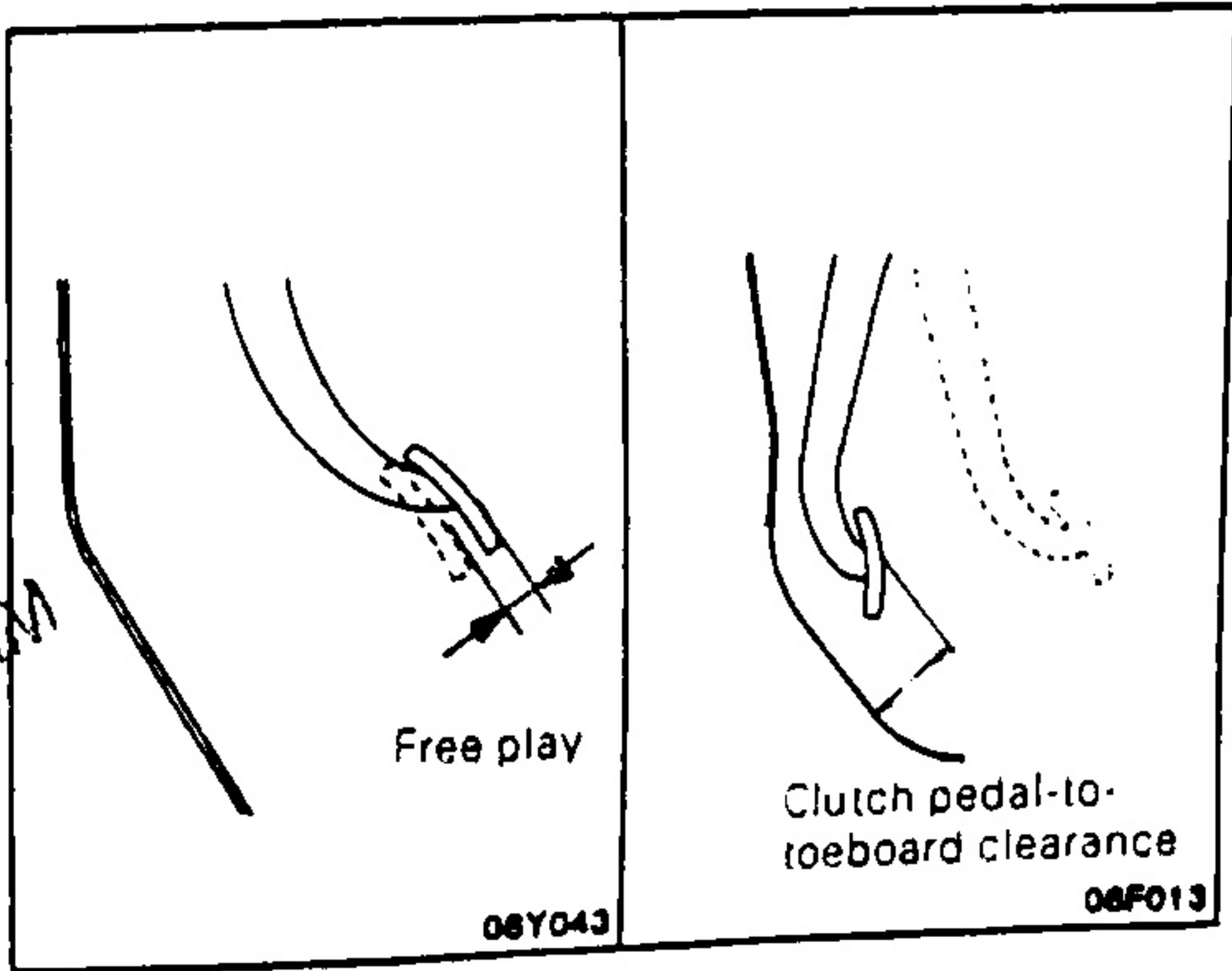
NOTE

The pedal height cannot be adjusted.

If the clutch pedal height is not within the standard value range, check the pedal stopper of pedal support member for deterioration.



Measure the clutch pedal free play and the clutch pedal-to-toeboard clearance when the clutch is disengaged.



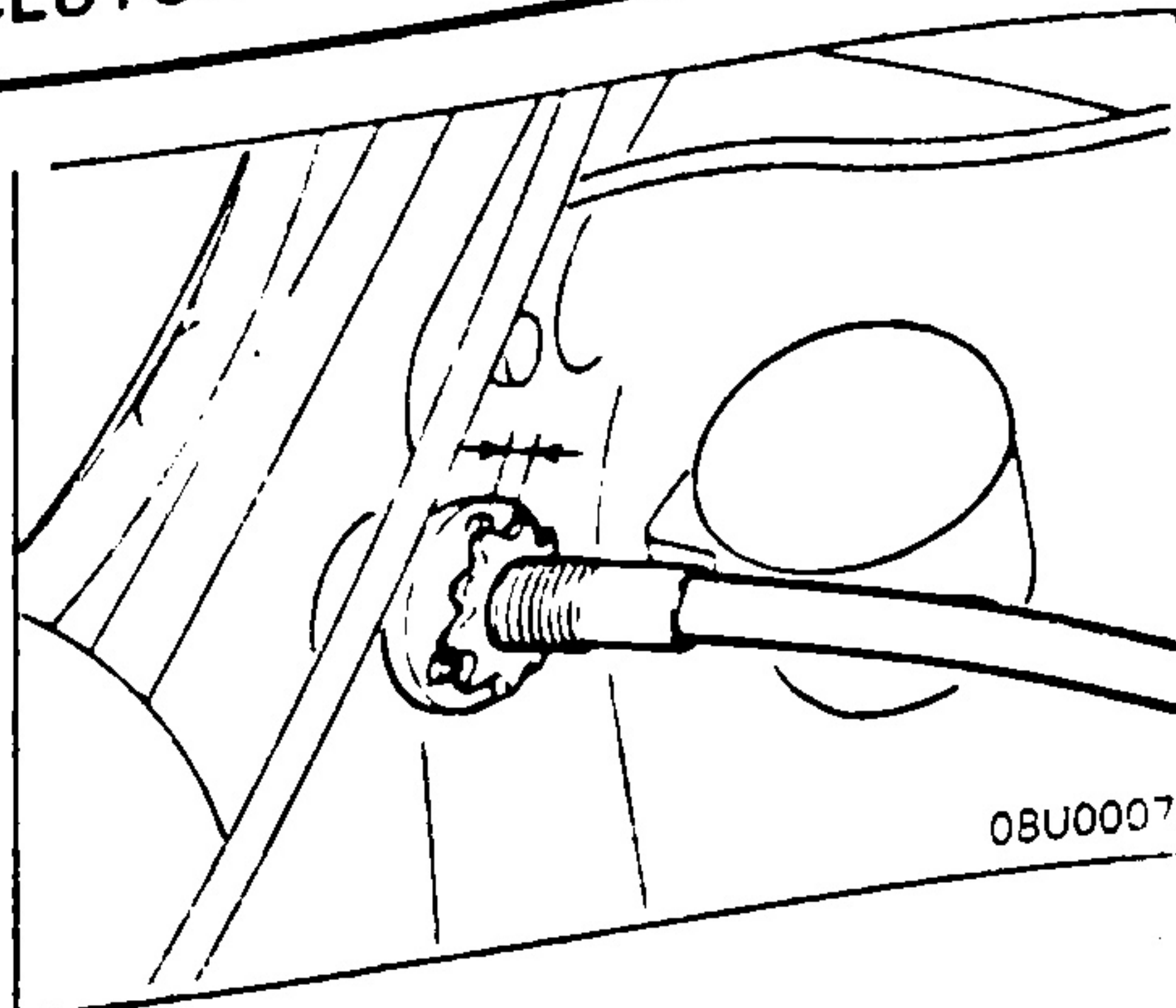
MARILYN B. MOULDER



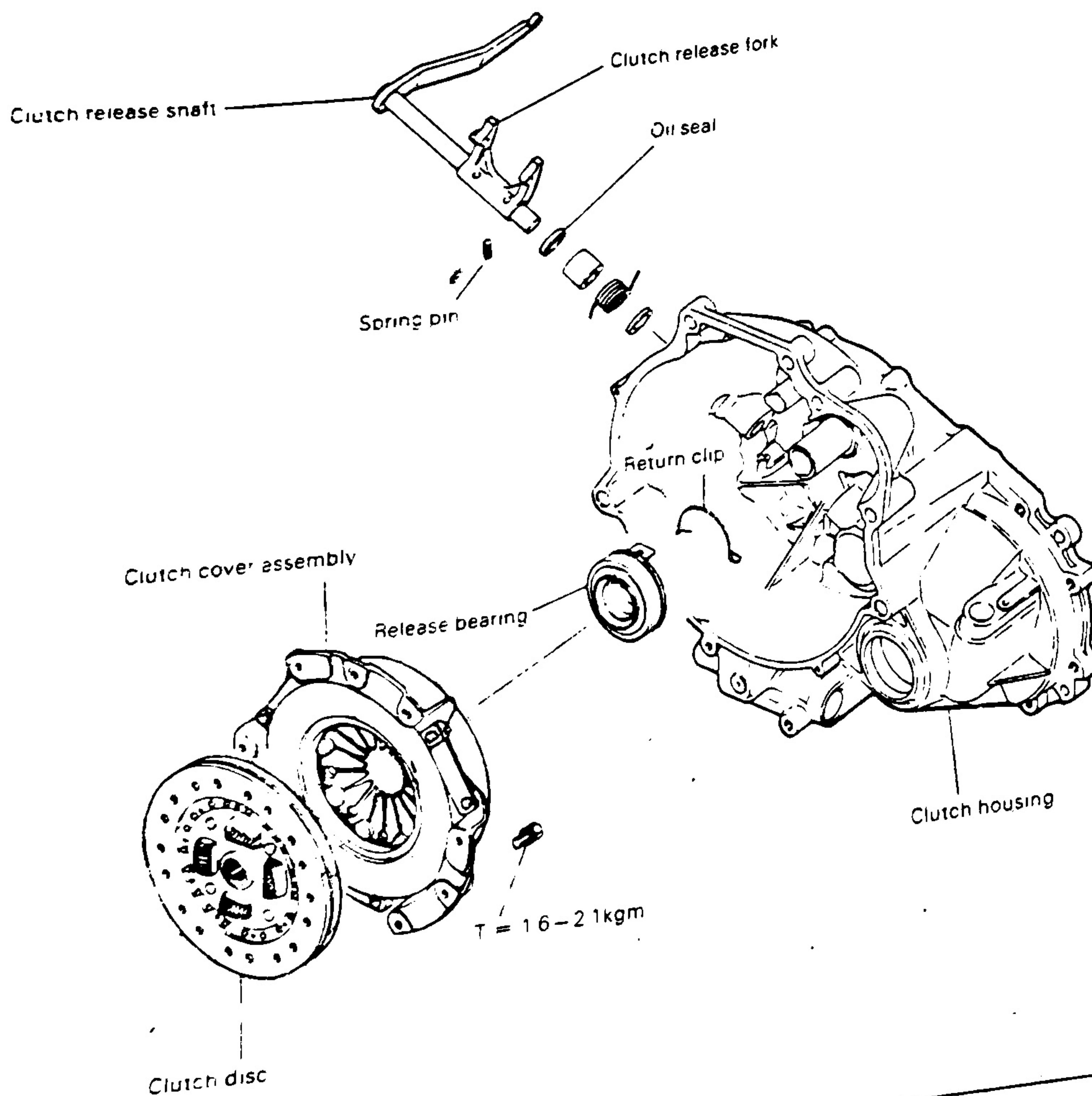
GENERAL / CLUTCH

If the clutch pedal free play is not within the standard value range, adjust it by the following procedure

- (1) Pull the clutch cable lightly at the toeboard and turn the adjusting nut until the adjusting nut-to-insulator clearance is adjusted to the standard value
- (2) After making the adjustment, depress the clutch pedal several times and check that the clutch pedal play is within the standard value range



CLUTCH COMPONENTS



CLUTCH

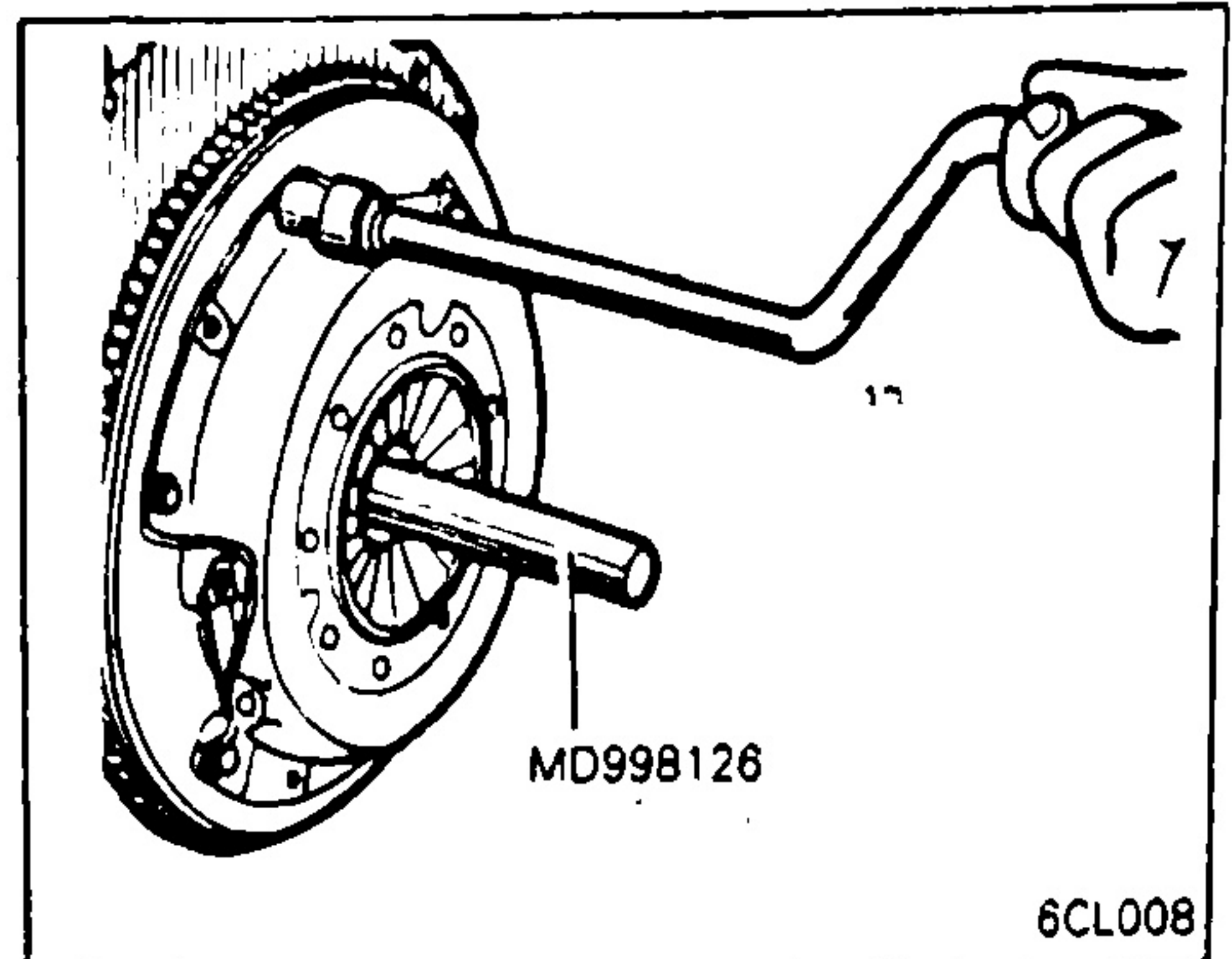


REMOVAL

Remove the transmission. See GROUP 9A for detailed procedure.

Insert Special Tool, Clutch Disc Guide (MD998126), or main drive gear of transmission in center spline to prevent dropping of clutch disc.

Diagonally loosen bolts which attach clutch cover to flywheel. Back off bolts in succession, one or two turns at a time, to avoid bending cover flange.

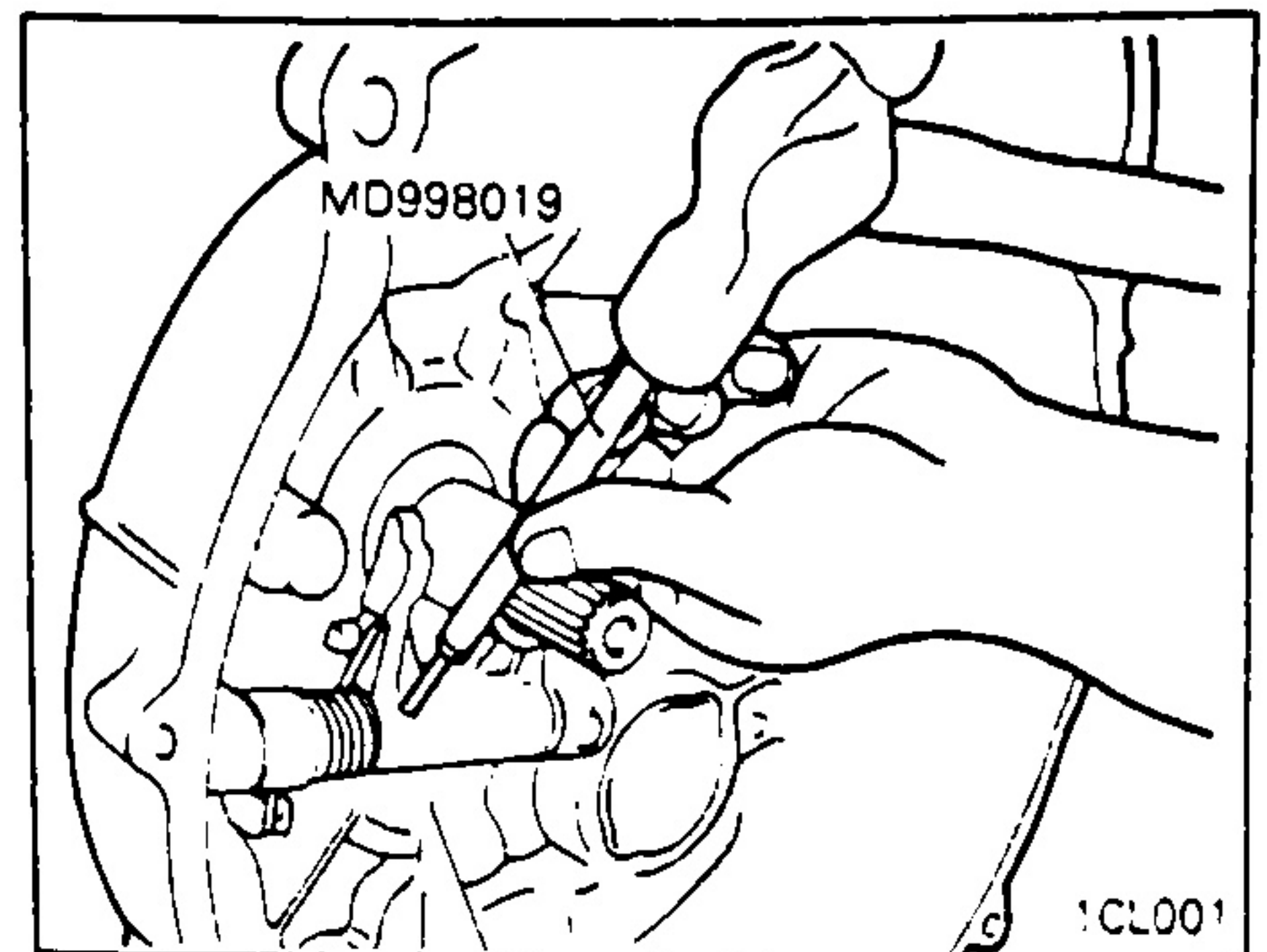


Caution

DO NOT clean clutch disc or release bearing with cleaning solvent.

Remove return clip, then remove release bearing. Remove spring pins from clutch release fork and shaft, with Special Tool, Lock Pin Extractor. Do not reuse spring pins.

Remove clutch release shaft and then remove release fork, packings and return spring.



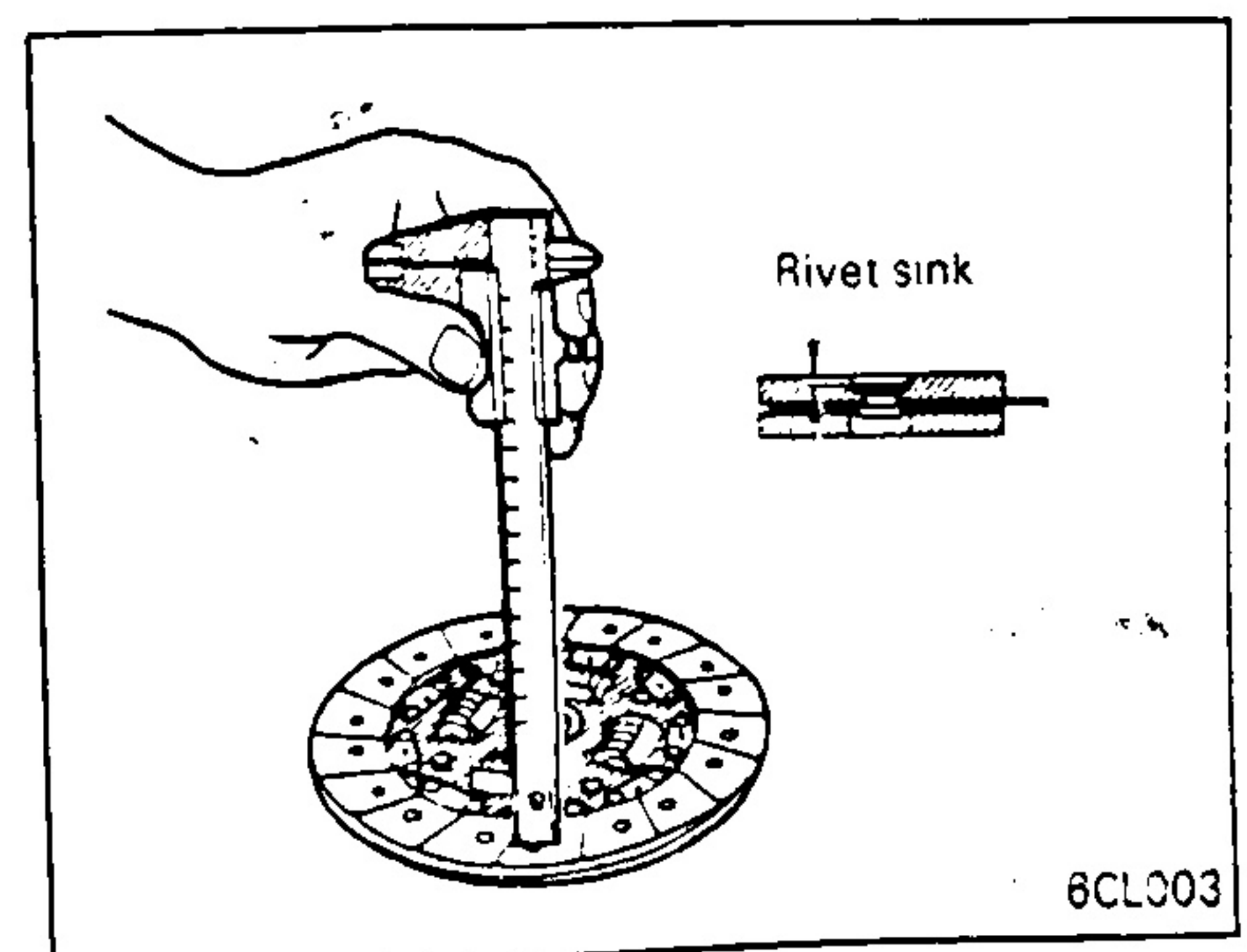
CLEANING AND INSPECTION

Clean clutch dust from clutch housing with vacuum brush or shop towel. Do not use compressed air. Inspect for oil leakage through engine rear main bearing oil seal and transmission front oil seal. If leakage is noted, it should be corrected at this time.

Friction face of pressure plate should be have a uniform appearance throughout entire disc contact area. If there is evidence of heavy contact on one portion of wear circle and a very light contact 180 degrees from that portion, pressure plate may be improperly mounted or sprung.

Friction face of flywheel should also be free from excessive discoloration, burned areas, small cracks, deep grooves, or ridges.

The disc assembly should be handled without touching facings. Replace disc if facings show evidence of grease or oil soakage, or wear to within less than 0.3 mm of the rivet heads. The hub splines and splines on transmission input shaft should be a snug fit without signs of excessive wear. Metallic portions of disc assembly should be dry and clean and show no evidence of having been hot. Each of the arched springs between facings should be unbroken and all rivets should be tight.





Wipe friction surface of pressure plate with a suitable solvent
Using a straight edge, check pressure plate for flatness. The pressure plate friction area should be flat within 0.5 mm and free from discoloration, burned area, cracks, grooves or ridges.
Visually inspect the cover outer mounting flange for flatness. It should be free of nicks, burrs, dents or other damage.

The three dowels on the flywheel should be tight and undamaged. The cover stamping should be a snug fit on the dowels.
If the clutch assembly does not meet these requirements, it should be replaced.

INSTALLATION

Prior to installing release shaft, apply multipurpose grease.

Insert release shaft and install packings, return spring and release fork.

Apply grease to release bearing contact surfaces of release fork.

Align lock pin holes of release fork and release shaft and drive in two spring pins, using Special Tool MD998245. When spring pins are installed, make sure that spring pin slot direction is at right angles to center line of control shaft.

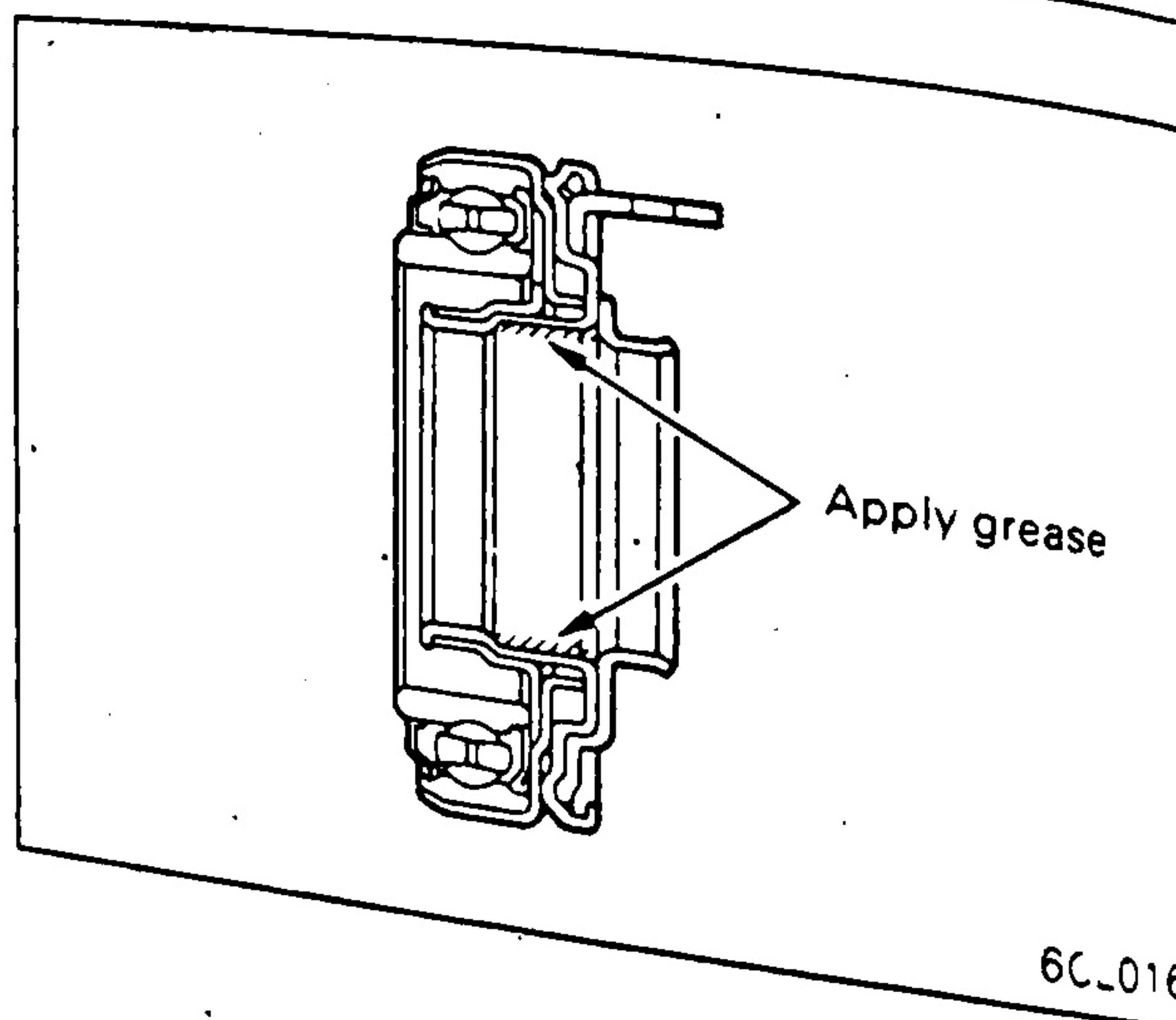
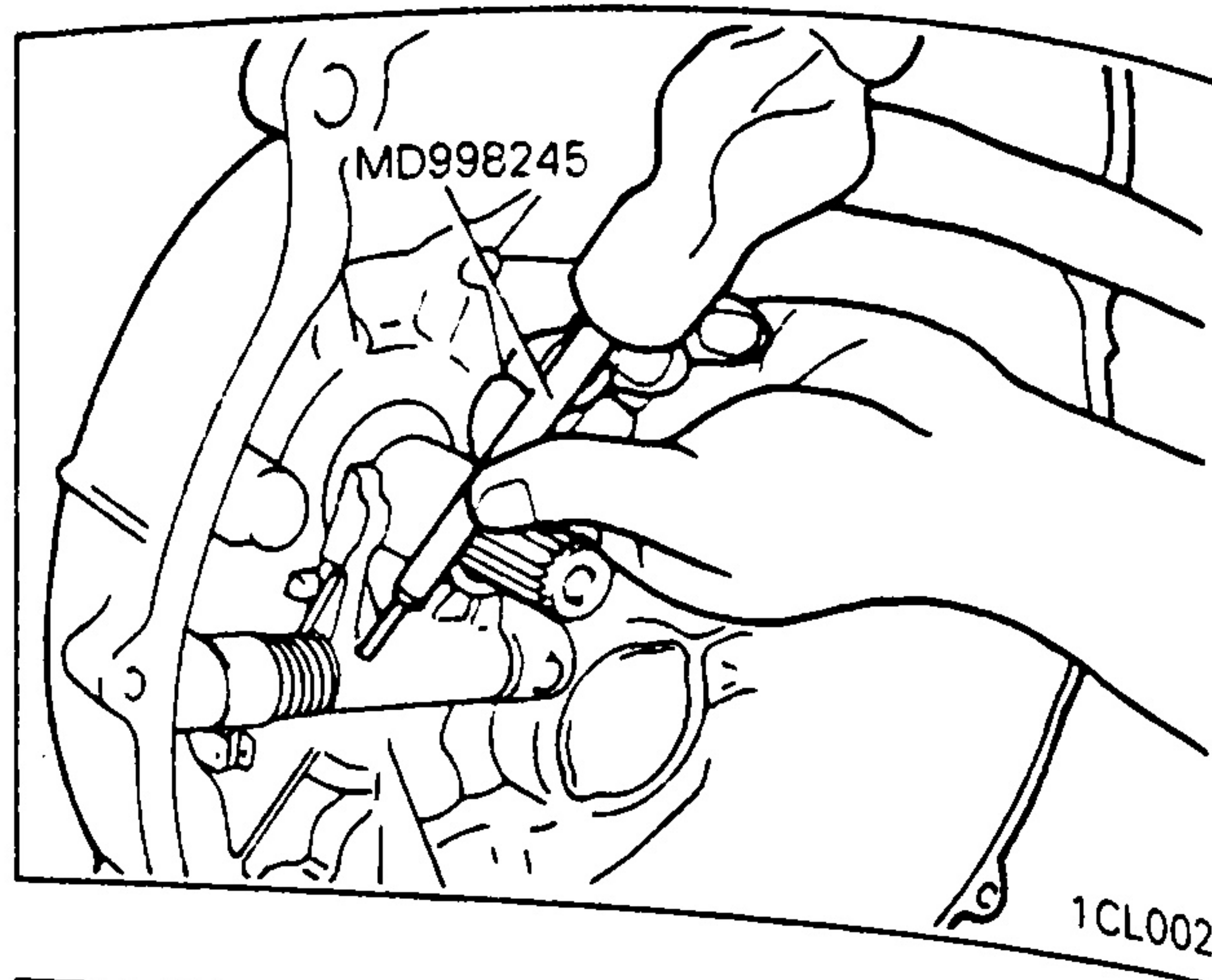
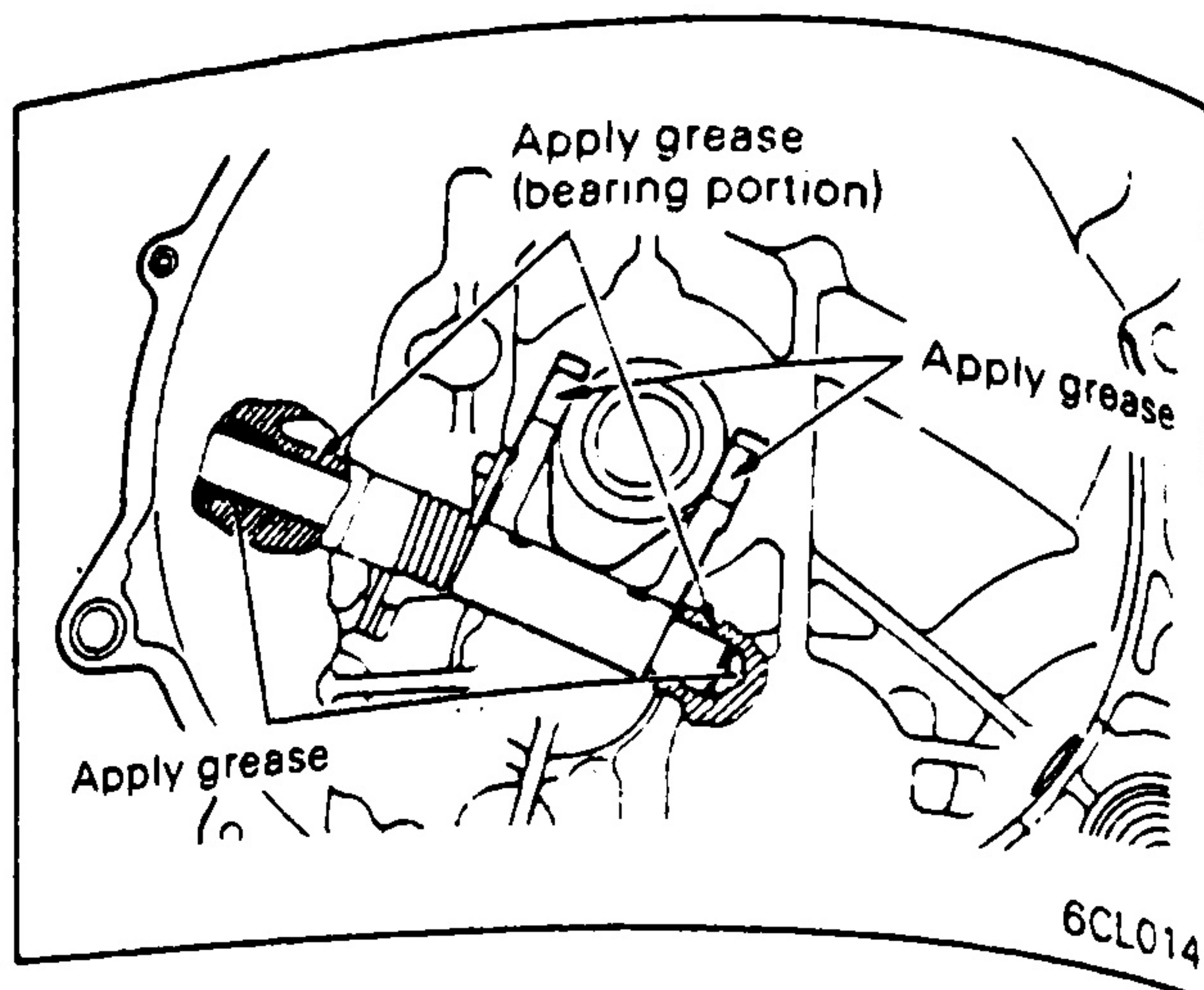
Caution

DO NOT reuse spring pins.

Apply grease into groove of release bearing and then install release bearing to front bearing retainer of transmission.

Install return clip to release bearing and fork.

Clean the surfaces of flywheel and pressure plate thoroughly with fine sandpaper or crocus cloth, and make certain that all oil or grease has been removed.



CLUTCH



Apply and rub a small amount of multipurpose grease to the clutch disc spline and input shaft spline.

Using Special Tool, Clutch Disc Guide (MD998126), install clutch disc assembly to flywheel. When installing clutch disc, be sure that surface having manufacturers stamped mark is on pressure plate side.

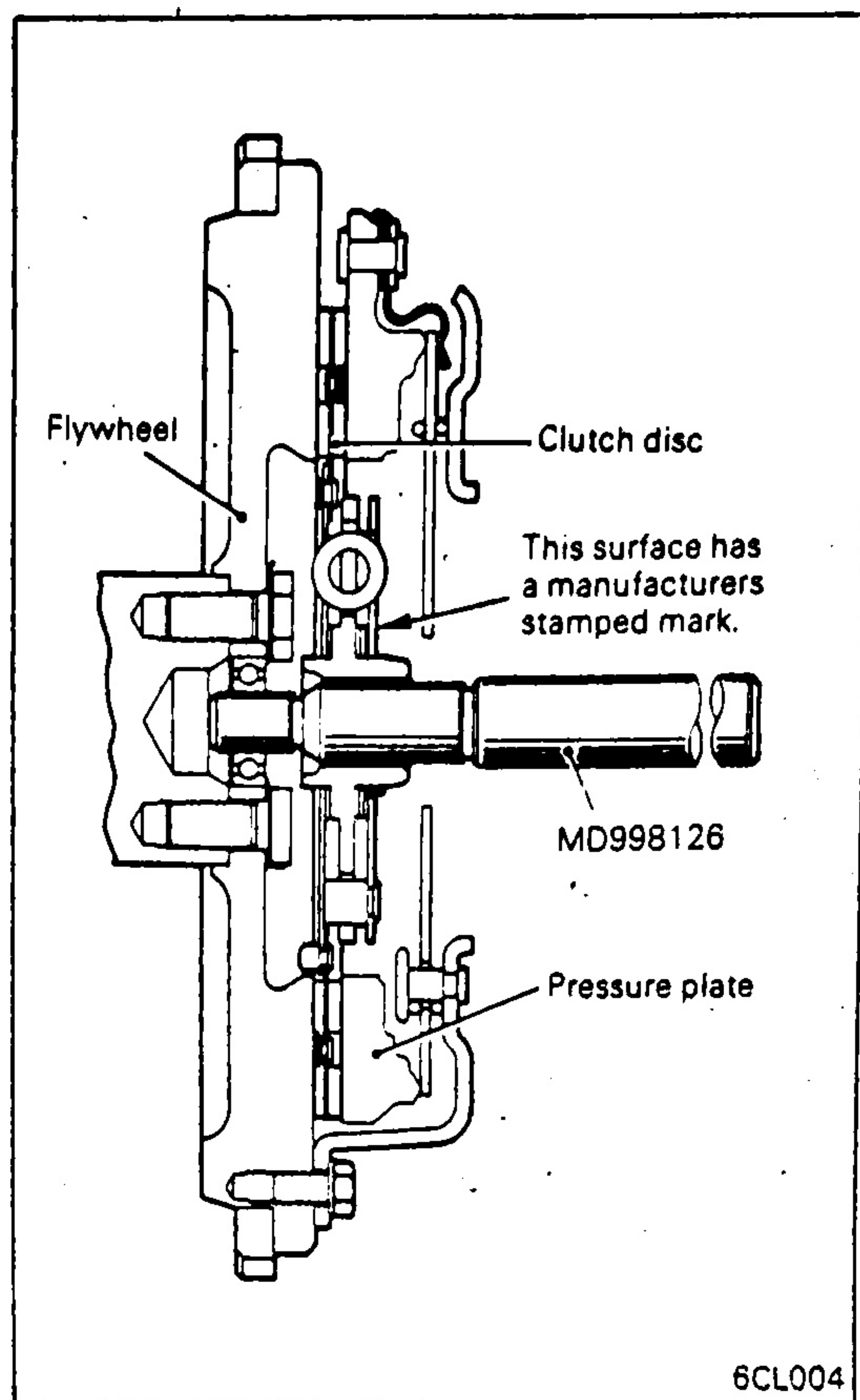
Install clutch cover assembly onto flywheel and install six (6) bolts through clutch cover into flywheel.

Diagonally tighten bolts to 1.6 to 2.1 kgm. Screw in bolts, one or two turns at a time, in succession, to avoid bending cover flange.

Remove centering tool.

Install transmission. See GROUP 9A for detailed procedure.

Adjust clutch free play.

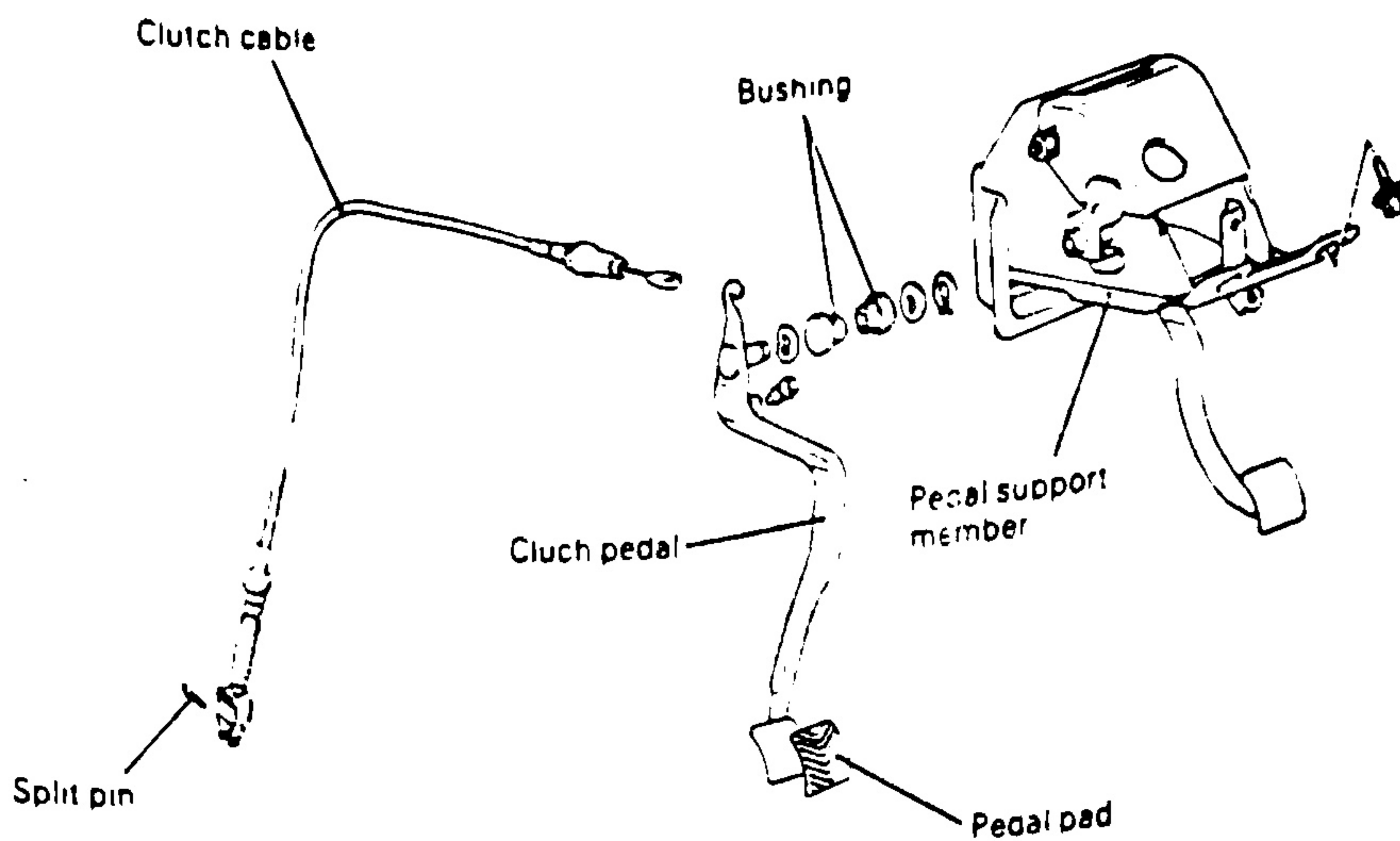


MARWAN D. ABDEL RAHIM



CLUTCH CONTROL

COMPONENTS

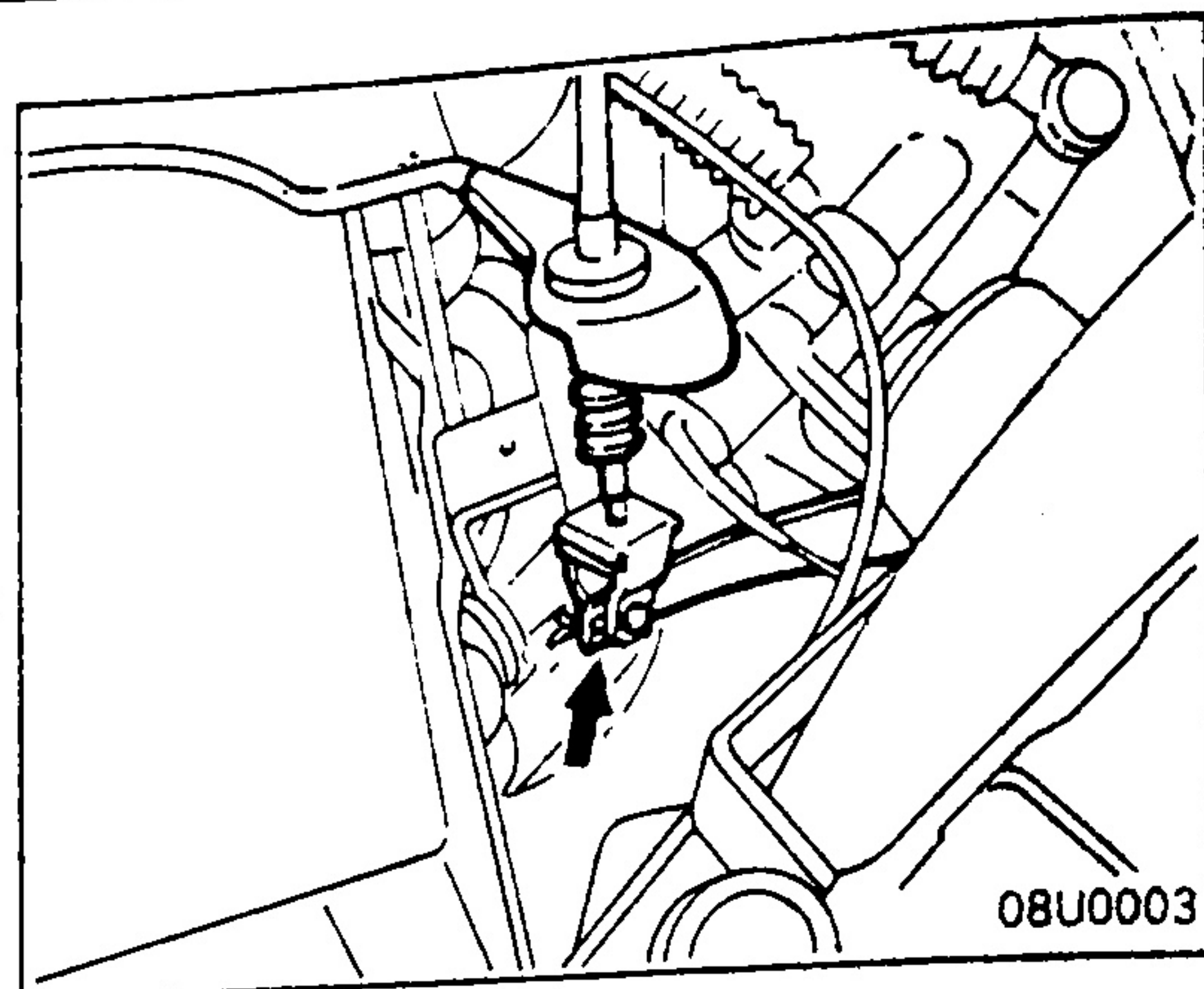


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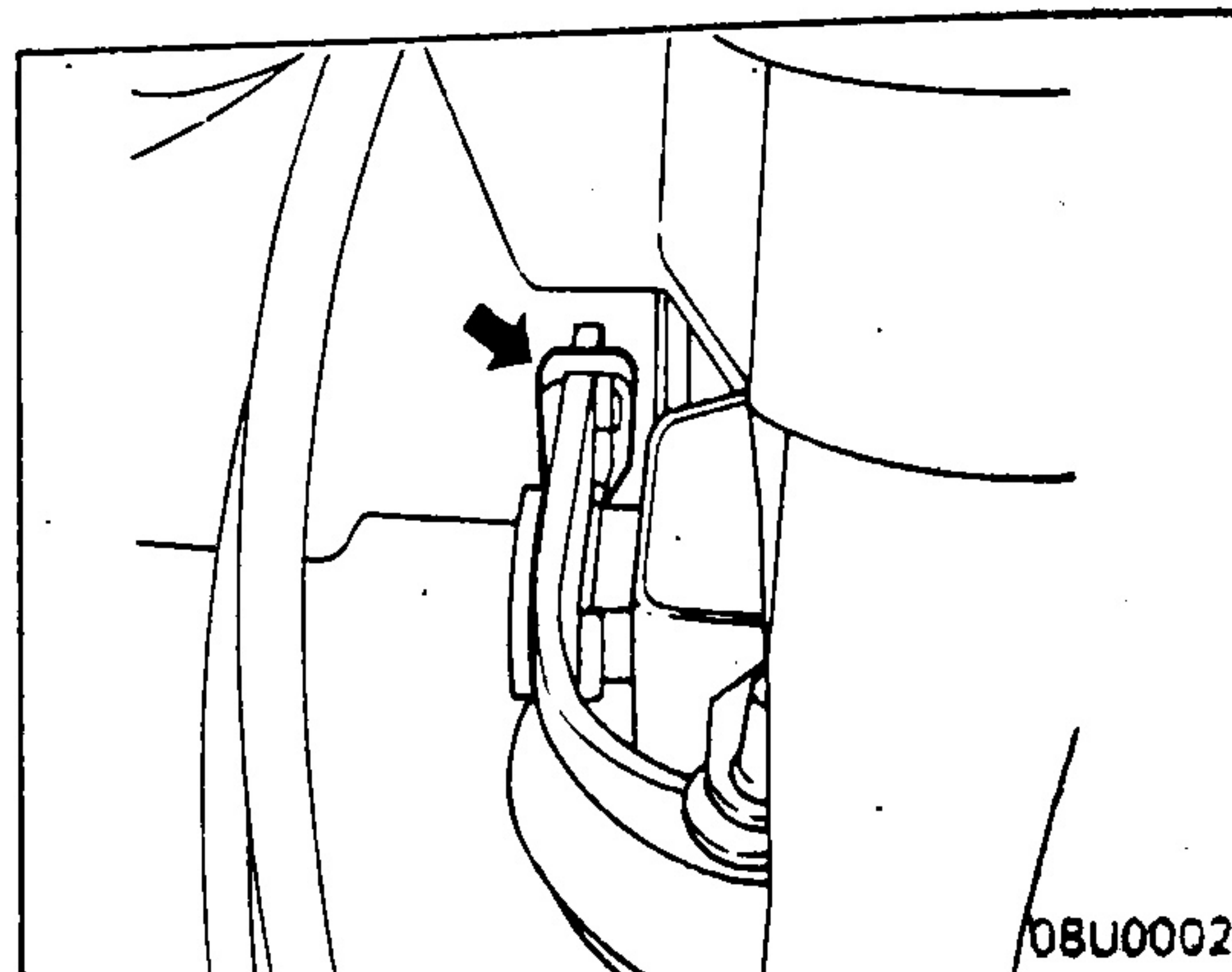
REMOVAL

Clutch Cable

Loosen the clutch cable adjusting nut. Remove the split pin from the end of the clutch control lever on the transmission side, and then disconnect the clutch cable from the holder.



Disconnect the clutch cable from the end of the clutch pedal, and then remove it by pulling it toward the engine compartment.



CLUTCH CONTROL



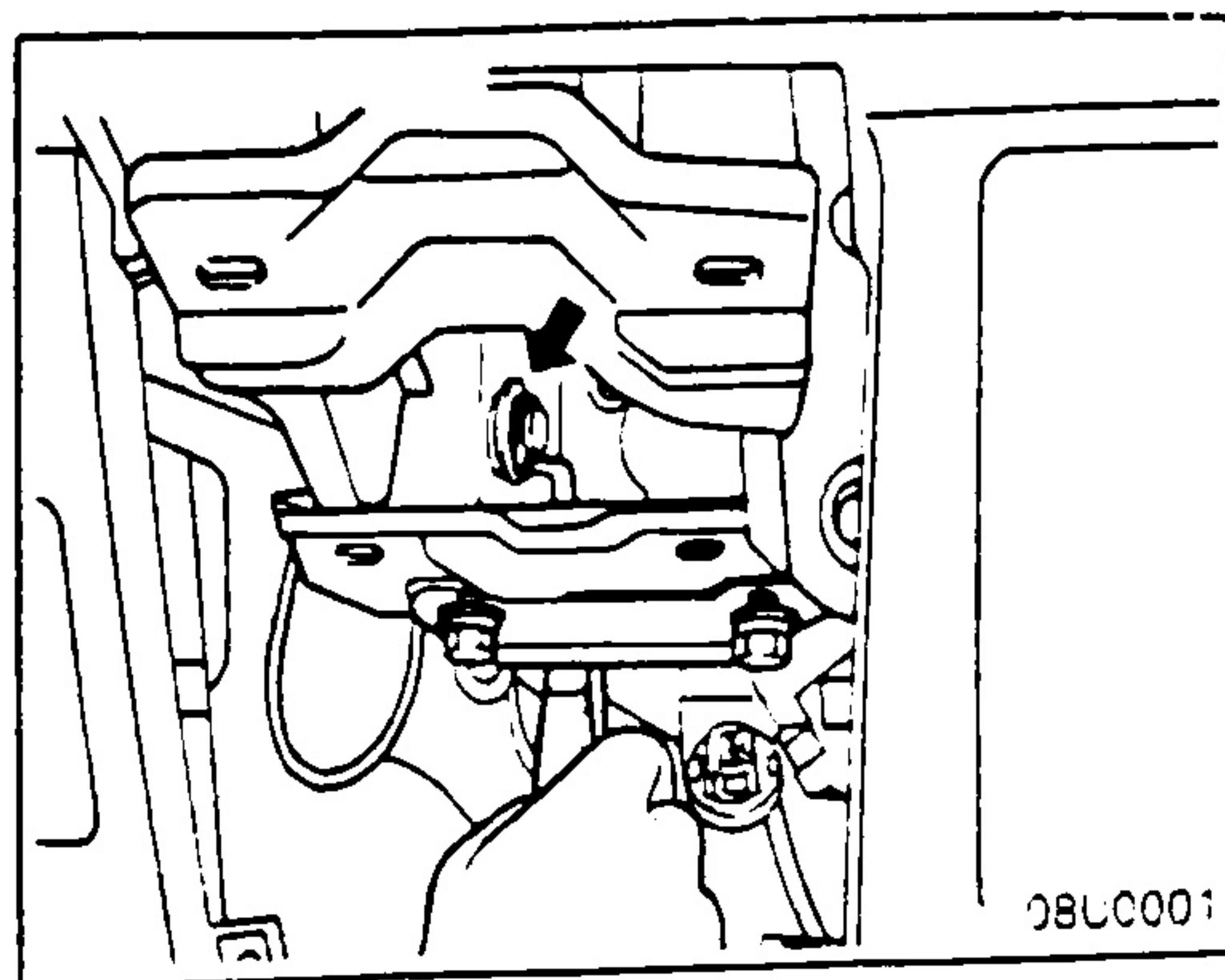
Clutch Pedal

Loosen the adjusting nut, and then disconnect the clutch cable from the pedal.

Remove the mounting bolts of the upper and lower brackets (or the tilt bracket) and then lower the steering shaft to the floor. (Refer to GROUP 13A.)

Remove the steering shaft assembly. (Refer to GROUP 13A.)

Remove the snap ring, and then remove the clutch pedal.



INSPECTION

- (1) Check dust boot for damage.
- (2) Check cable for rough movement.
- (3) Check outer cable for damage.
- (4) Check for condition of connections at both ends of clutch cable.
- (5) Check pedal shaft and bushing for wear.
- (6) Check clutch pedal for bend or torsion.

INSTALLATION

Apply the specified multipurpose grease to the clutch pedal shaft, the bushings and the end of the pedal, and then secure the shaft with a snap ring.

Adjust the clutch cable free play. (Refer to P.8-6.)

