Tech Note E

V6 & V8 Commodore Pivot Ball & Clutch Adjustment

Ref: TNE Issue date: 10 Dec 2004 Issue number: 2

For Holden Commodore V6 & V8 vehicles fitted with MC6, M20 & M21 M/T
CLUTCH CONTROL ADJUSTMENTS

These adjustments need to be made before gearbox is fitted.

The clutch control on VN Series models operates without clutch pedal free travel. Adjustment procedure is as follows.

MC6 – Gear lever is mounted into the extension housing enclosing the gear change rods.

CLUTCH PRIMARY ADJUSTMENT

- Remove transmission
- Remove clutch cover assembly.
- Measure distance from clutch housing front face to Top of clutch fork ball stud, refer to fig CL 7A-2.

To adjust clutch fork ball stud height, loosen ball Stud lock nut, wind ball stud 'IN' or 'OUT' to achieve dimension 'A' shown in fig CL 7A-2. Refer following chart for the specified dimension 'A'.

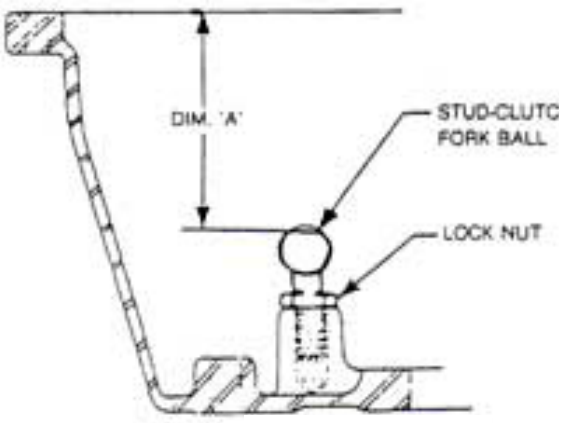

Figure CL7A-2

DIM. A IN FIG C – V6: 102.0 MM DIM. A IN FIG C – V8: 105.0 MM

- When specified dimension is achieved, tighten lock nut to the correct torque specification and recheck adjustment.

CLUTCH FORK BALL STUD LOCK NUT TORQUE SPECIFICTION	25-34 Nm

- Check this as ball may work loose.
- Carry out the following clutch control cable adjustment procedure.

NOTE: Gearbox nose cone slide prone to severe wear, causing erratic clutch operation and noise due to change in release bearing position. Check this when gearbox is out.

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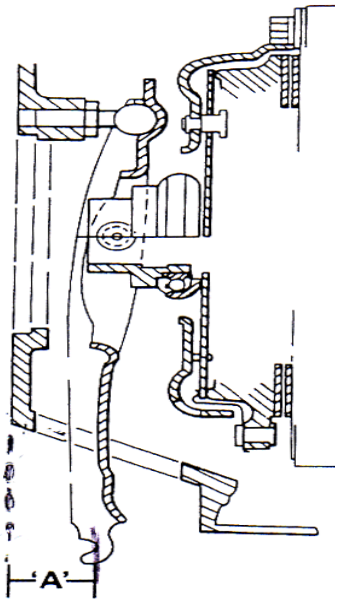
MC20 & MC21 Gear lever is mounted on a bracket with the gear change rods exposed.

With the new clutch and bell-housing fitted, gently push the clutch fork forward until the release bearing touches the diaphragm spring. Measures from the clevis hook on the fork to the rear face bell-housing.



Dimension 'A' for 6 cyl 39.00m
8cyl 48.00m

Specification: 39mm 6cyl
48mm 8cyl

NOTE: It is necessary to carry out clutch control cable adjustment before the clutch is operated to avoid clutch diaphragm damage.

CLUTCH CONTROL CABLE ADJUSTMENT

With the clutch primary adjustment set as described previously, the cable must be adjusted to obtain the specified distance between the clutch pedal floor pan.
The control cable should be adjusted as follows:

1. Remove clutch pedal trim pad.
2. Lightly load clutch pedal so that bearing contacts diaphragm fingers and measure distance from pedal to floor pan with floor covering removed.