

SECTION 08-02 Clutch Controls

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VEHICLE APPLICATION

Taurus with 3.0L SHO Engine.

DESCRIPTION AND OPERATION

Clutch Control System, Self-Adjusting

The illustration shows the relationship between the clutch controls and the balance of the system. The clutch control system is self-adjusting and pedal motion is transmitted by cable to the clutch release lever.

NOTE: After proper installation of the cable, adjustment is completed by pulling the clutch pedal to its upmost position with 44N (10 lb) of force.

With the pedal in the upmost position, the pawl is free of the quadrant and the quadrant position is governed by the position of the clutch release fingers; the quadrant being free to rotate independent of the pedal. The adjuster load spring force ensures contact between the release bearing and the fingers. As the disc facing wears, the fingers are gradually moved away from the flywheel and this movement is translated to the quadrant, adjusting the quadrant position relative to the pedal, when the pawl is free of the quadrant.

During normal running position, the pawl is engaged with the quadrant, locking it to the pedal. For the rest of the pedal travel, the system works as a conventional system; the pedal motion being transmitted to the release fingers. The quadrant remains locked to the pedal during pedal movement. Since the release bearing in this system is constant-running, transaxle neutral rollover noise can be detected as such only by disengaging the release bearing from the clutch release fingers.

NOTE: Lift clutch pedal to the upmost position when connecting or disconnecting the clutch cable.

This is best accomplished by disconnecting the cable from the release lever and moving the lever away from the cable. If neutral noise is evident under this condition, it is coming from the transaxle.

Noise associated with the release bearing and clutch system will be evident during all or some portion of pedal travel.

The clutch is a Belleville spring-type pressure plate and a multi-stage dampered disc using a self-centering, constant-running release bearing.

