

The switch in the hand lever for the parking brake also energizes and deenergizes the START circuit on the ignition switch. When the hand lever for the parking brake is in the applied position, the START circuit is energized so that the lift truck can be started. When the hand lever for the parking brake is in the released position, the START circuit is deenergized.

Direction Control Lever Only. There is no switch in the hand lever for the parking brake.

Neutral Start Switch, MONOTROL Pedal Only (See FIGURE 11.)

When the inching pedal is fully pushed down, a disc on the end of the inching spool actuates the neutral start switch and applies the service brakes. The neutral start switch is in series electrically with a pressure switch in the brake system. The disc actuates the neutral start switch and the pressure in the brake system closes the brake switch. The pressure switch in the brake system makes sure that the brakes are applied. When the neutral start switch and the brake switch are both closed, the START circuit, controlled by the ignition switch, is energized. When the inching pedal is fully pushed down, oil pressure to the direction spool and clutch is reduced to zero. The clutch is released and the direction spool moves to its NEUTRAL position. This operation makes sure that the transmission is disengaged and the brakes are applied when the engine is started.

Neutral Start Switch, Direction Control Lever Only (See FIGURE 9.)

A neutral start switch is installed in the transmission control valve and is controlled by the position of the direction control spool. The direction control spool has a detent so that a small steel ball fits into the detent when the direction control spool is in the NEUTRAL position. When the steel ball moves into the detent, the neutral start switch closes so that the lift truck can be started. When the neutral start switch is actuated, the START circuit, controlled by the ignition switch is energized. The neutral start switch makes sure that the transmission is disengaged when the engine is started.

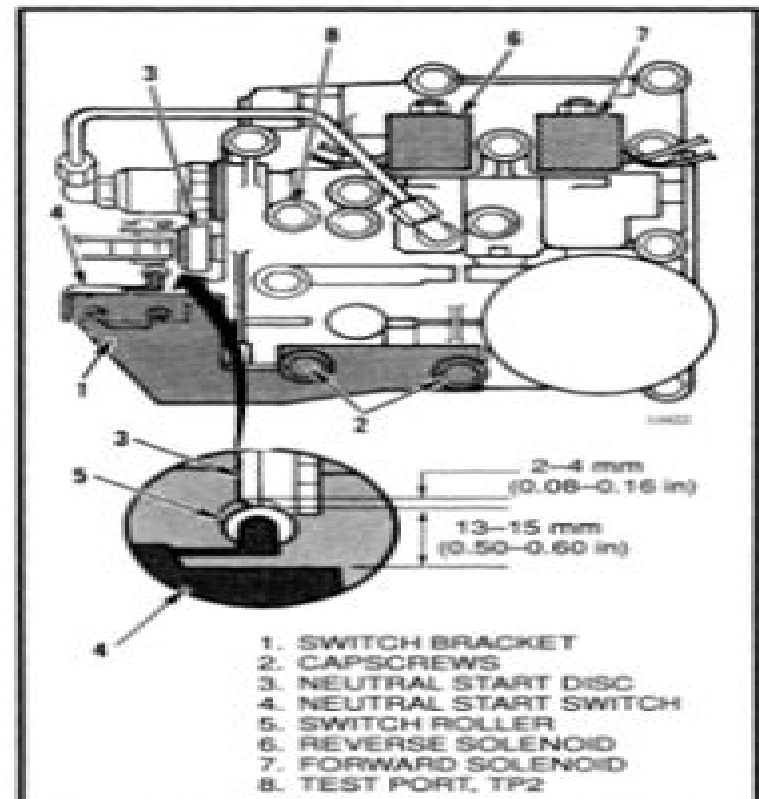


FIGURE 11. ADJUSTMENT, NEUTRAL START SWITCH (MONOTROL ONLY)

Modulator Circuit (See FIGURE 9. and FIGURE 10.)

A modulator circuit is used to control the rate of application of the clutch. When the direction spool is moved to select a direction of travel, the modulator circuit controls the application of the clutch during a 1.5 to 2.0 second period. The modulator circuit controls the pressure increase to apply the clutch smoothly. This delay and smooth application of pressure reduces the shock and stress to the drive train when engaging the transmission or changing directions.

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