

# PEDAL ASSEMBLY for Modulating Valves Service Instructions

## DISASSEMBLY

(Refer to Figure 1)

1. Remove machine screws (1), cover (2) and seal (3) from base (5).
2. Remove screw (7), carefully remove shaft assembly (4) while separating pedal assembly (6) from base (5).

**NOTE: The spring on shaft assembly (4) must be partially compressed while removing shaft assembly (4).**

## ASSEMBLY

(Refer to Figure 1)

1. Lubricate new shaft assembly (4) with a good quality polymer base moly grease. Align holes in base (5) and pedal assembly (6) and carefully install new shaft assembly (4). Note direction of shaft assembly (4). Make sure spring on shaft assembly (4) is properly positioned and does not impede seating of shaft assembly. Spring must also remain in slot of cam during assembly. **NOTE: Be careful not to damage switches.**
2. Be sure pedal assembly is equally spaced between ears of base (5), moves freely and is in an upright position. Install new screw (7). Flat of shaft assembly (4) must be aligned with end of new screw (7). Torque screw (7) 7.0-7.7 N·m (62-68 lb·in).
3. Install seal (3), cover (2), and machine screws (1). Torque machine screws (1) 1.1-1.7 N·m (10-15 lb·in).

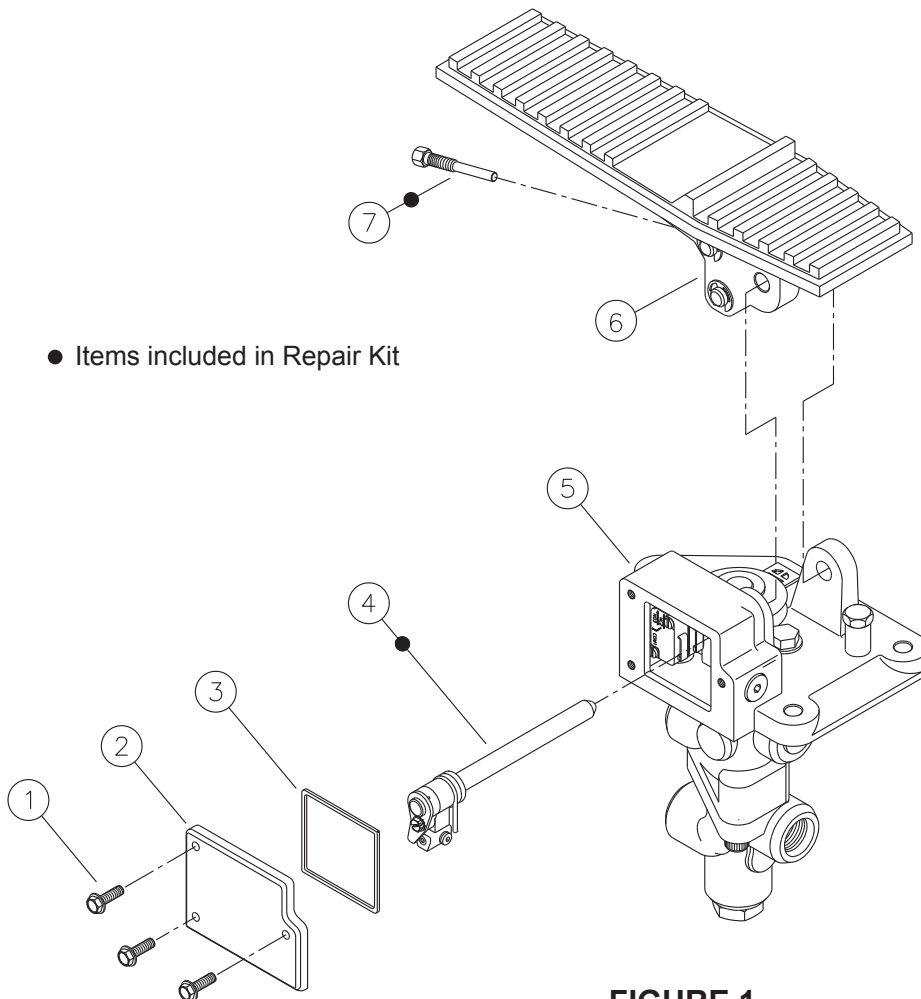


FIGURE 1

## Stop Lamp Switch Adjustment

(Refer to Figure 2)

### NOTE

The adjustment for the stop lamp switch has been correctly preset at assembly. However, the following procedure should be used if the switch requires service.

### NOTE

Both the neutralizer switch and the stop lamp switch are positioned immediately next to each other in the left pedal assembly. Both switches share the same mounting screws and therefore, both switches must be installed when making an adjustment to either switch. The stop lamp switch is located near cover (3).

1. Disconnect receptacle assembly (6) from the wire harness assembly.
2. Connect an ohmmeter (or continuity tester) to Pin 2 and Pin 3 of receptacle assembly (6). With pedal assembly (1) in the retracted position (fully released), the ohmmeter should indicate an open (infinite) circuit condition.
3. With pedal assembly (1) in the retracted position (fully released), depress the pedal assembly until dimension A is obtained. Dimension A equals approximately 6.0-16.0 mm (0.24-0.63 in).
4. The ohmmeter should now indicate a closed (shorted) circuit condition, and an audible "click" should be heard which indicates the switch has been actuated.

### NOTE

Do NOT make the mistake of only listening for the audible "click" sound because both the transmission neutralizer and stop lamp switch make the same sound and should be set to actuate at approximately the same time.

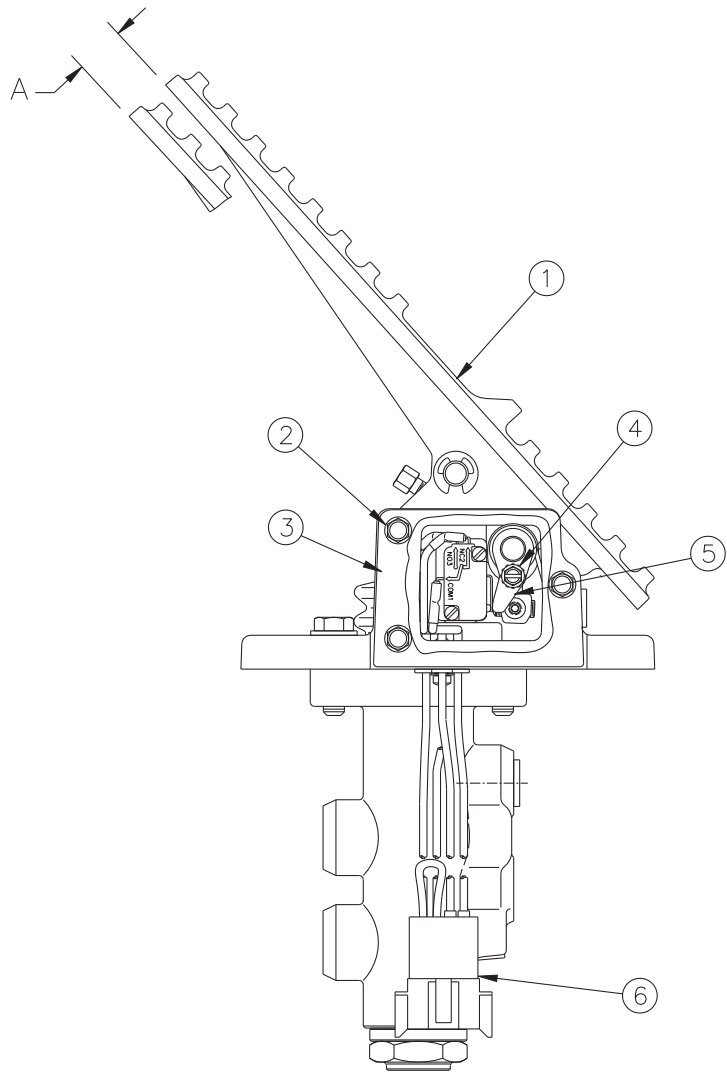
If the previous steps do not indicate a closed circuit, proceed with the following steps.

5. Remove three screws (2) and cover (3).
6. Loosen screw (4) and rotate cam (5) approximately one-half degree and retighten screw (4).

### NOTE

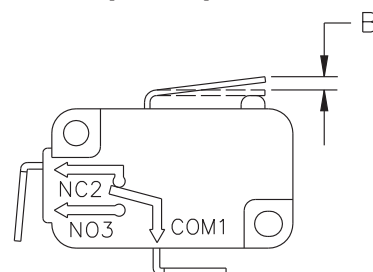
Rotating cam (5) clockwise increases dimension A. Rotating cam (5) counterclockwise decreases dimension A.

7. Repeat steps 3, 4 and 6, until the desired result is obtained.
8. Replace cover (3) and three screws (2).



**FIGURE 2**

## Stop Lamp Switch



Momentary on, normally closed contacts held open in assembly  
 Distance to actuate switch (dimension B).....1.52 mm  
 (0.06 in) maximum  
 Actuating force.....1.6 N (0.36 lb)

## Neutralizer Switch Adjustment

(Refer to Figure 3)

### NOTE

The adjustment for the neutralizer switch has been correctly preset at assembly. However, the following procedure should be used if the switch requires service.

### NOTE

Both the neutralizer switch and the stop lamp switch are positioned immediately next to each other in the left pedal assembly. Both switches share the same mounting screws and therefore, both switches must be installed when making an adjustment to either switch. The neutralizer switch is located toward the center of the pedal assembly.

1. Disconnect receptacle assembly (4) from the attached wire harness assembly (not shown).
2. Connect an ohmmeter (or continuity tester) to Pin 1 and Pin 4 of receptacle assembly (4). With pedal assembly (1) in the retracted position (fully released), the ohmmeter should indicate a closed (shorted) circuit condition.
3. With pedal assembly (1) in the retracted position (fully released), depress the pedal assembly until dimension C is obtained. Dimension C equals approximately 6.0-16.0 mm (0.24-0.63 in).
4. The ohmmeter should now indicate an open (infinite) circuit condition and an audible "click" should be heard which indicates the switch has been actuated.

### NOTE

Do NOT make the mistake of only listening for the audible "click" sound because both the transmission neutralizer and stop lamp switch make the same sound and should be set to actuate at approximately the same time.

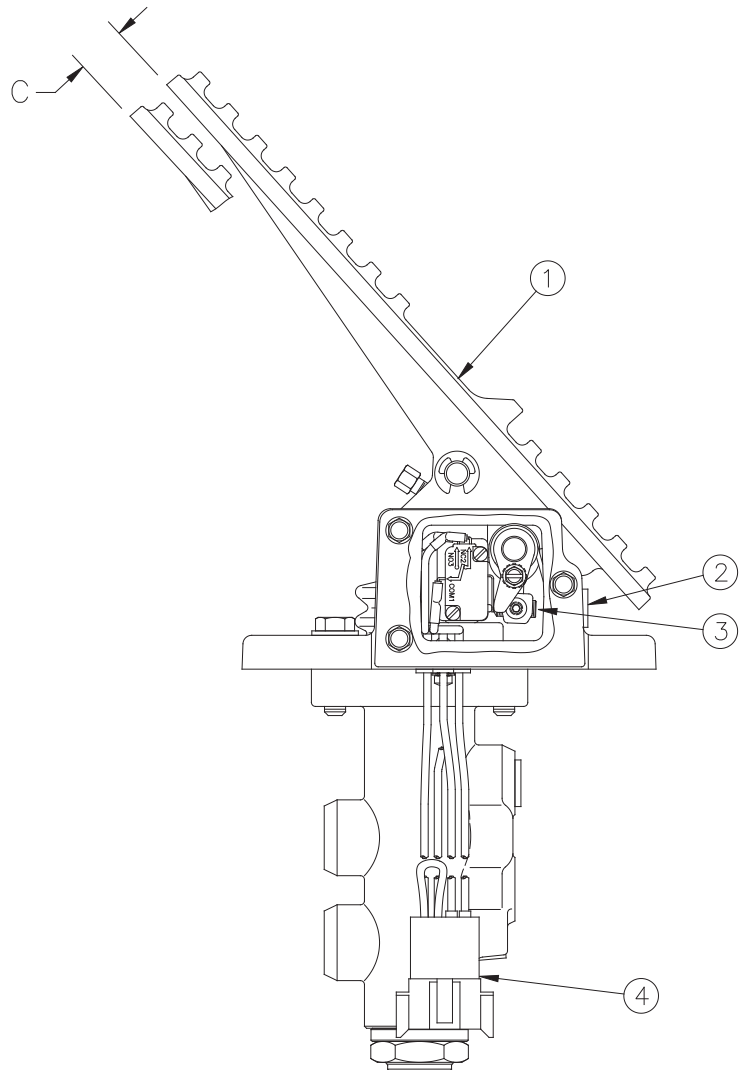
If the previous steps do not indicate an open circuit, proceed with the following steps.

5. Remove plug (2) and insert a 3.13 mm (0.125 in) hex wrench in screw (3).
6. Rotate the wrench in one-quarter turn increments and repeat steps 3 and 4 until the desired result is obtained.

### NOTE

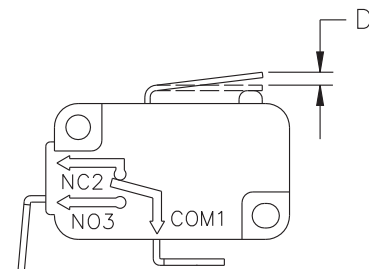
Rotating screw (3) clockwise increases the value of dimension C. Rotating screw (3) counterclockwise decreases the value of dimension C.

7. Install plug (3).



**FIGURE 3**

## Neutralizer Switch



Momentary on, normally closed contacts held open in assembly  
 Distance to actuate switch (dimension B)..... 1.52 mm  
 (0.06 in) maximum  
 Actuating force..... 1.6 N (0.36 lb)

