



**READ
INSTRUCTIONS
THOROUGHLY
BEFORE
PROCEEDING**

**ROOM EXTENSION
RACK SENSING VALVE
REPLACEMENT / ADJUSTMENT**

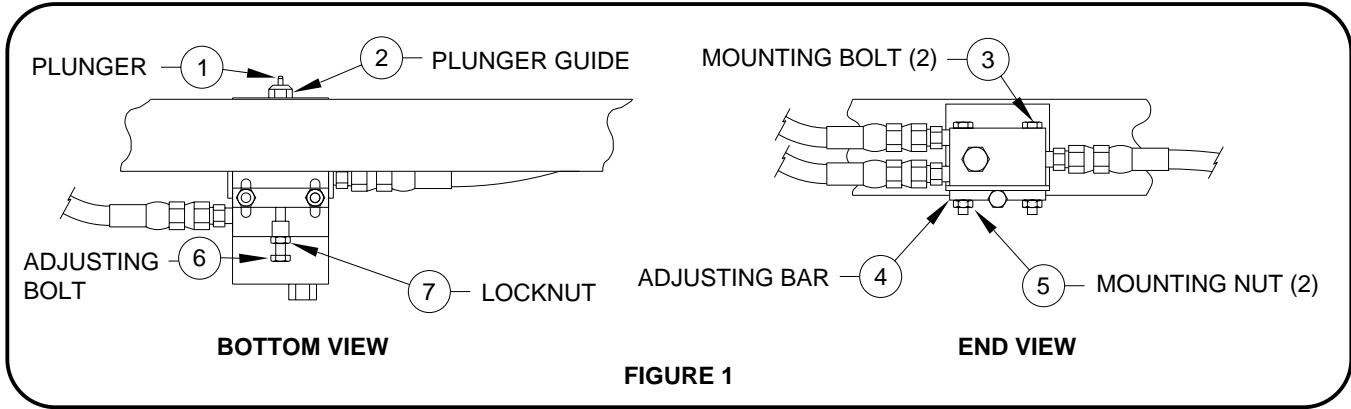


FIGURE 1

REPLACEMENT

When replacing a rack sensing valve, the valve release "T" handles for both valves on the room extension manifold must be opened (counter clockwise) five to six turns to relieve pressure on the system. Only two solenoid valves for that room extension need to be opened.

- Loosen the rack sensing mounting bolts. (3 & 4, FIGURE 1)
- Remove the adjusting bolt and lock nut. (6 & 7, FIGURE 1)
- Remove the three hydraulic lines from the valve. Remove the mounting bolts and valve adjusting bar. (5, FIGURE 1)
- Replace the valve but do not tighten the mounting bolts.
- Replace the hydraulic lines and the adjusting bolt and lock nut.

Adjust the valve so that approximately one half the plunger (1, FIGURE 1) is showing. Close the valve release "T" handles. Make the final adjustment of the rack sensing valve. (See the ADJUSTMENT procedure below). Tighten the mounting bolts and check for leaks and the fluid level in the power unit.

Tightening of hose ends: If tightening a new hose end, make the hose end snug (finger tight) on the fitting, then tighten the hose end 1/3 turn (2 FLATS). If tightening an existing hose end, tighten the hose end to snug plus 1/4 turn (1 FLAT).

ADJUSTMENT

Extend the room 6 inches then retract. Do this several times to remove air from the system. Extend the room approximately 6 inches. Both sides of the room should move at an equal distance from the vehicle. **If the difference is approximately 1/2 inch or less do not adjust the valve.** The movement of the room can be adjusted by moving the

rack sensing valve in or out using the valve adjusting bolt. (6, FIGURE 1) Loosen the rack sensing valve mounting bolts (3&5, FIGURE 1) and the adjusting lock nut. (7, FIGURE 1) Do not tighten these until the adjustment is complete. Refer to FIGURE 2 or 3 depending on which side of the room is leading, for the proper adjustment of the valve.

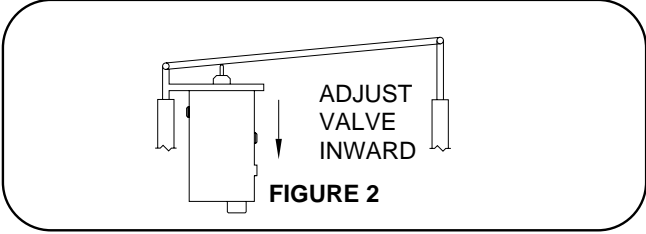


FIGURE 2

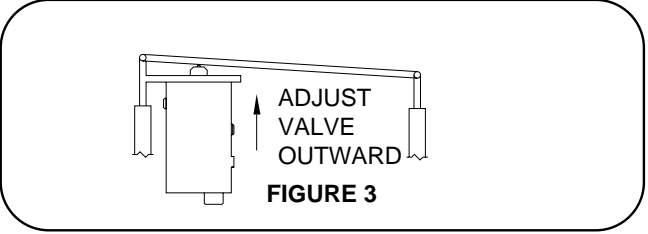


FIGURE 3

If the valve side of the room is moving at a closer distance to the vehicle (FIGURE 2) turn the adjusting bolt (6, FIGURE 1) counter clockwise 1 turn. **NOTE :** If the difference is minor, less than 1 turn may be appropriate. Extend the room an additional 12 inches. Retract the room that 12 inches and check the measurement. Repeat this procedure as necessary. The difference in the measurement should be 1/2 an inch or less. Tighten the mounting bolts and adjusting lock nut when the adjustment is complete.

If the valve side of the room is moving at a greater distance from the vehicle (FIGURE 3) turn the adjusting bolt clockwise 1 turn. **NOTE :** If the difference is minor, less than 1 turn may be appropriate. Extend the room an additional 12 inches. Retract the room that 12 inches and check the measurement. Repeat this procedure as necessary. The difference in the measurement should be 1/2 an inch or less. Tighten the mounting bolts and adjusting lock nut when the adjustment is complete.

REMEMBER : If the room is racking from side to side while moving, adjusting the rack sensing valve will not fix the problem.