

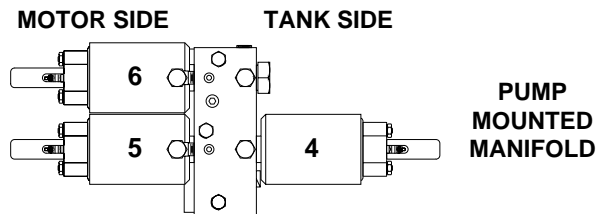
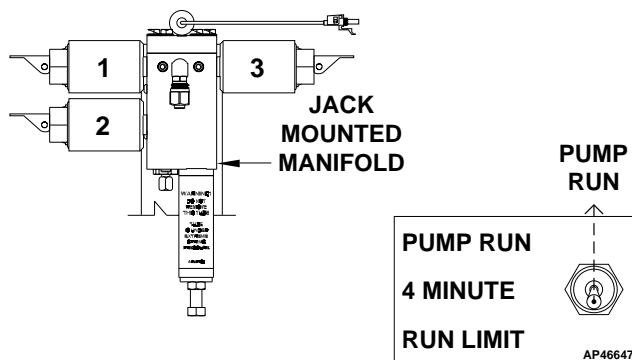
# SENSING UNIT ADJUSTMENT

## PRECISION LEVELING SYSTEM

### LEVELING THE VEHICLE AND ADJUSTING THE SENSING UNIT

**Adjust the rear sensing unit with the side to side bubble level first.** Open the number 1 and number 2 solenoid valves on both rear jacks. Open the number 5 valve on the pump manifold. Hold the pump run switch to "PUMP RUN" until both rear jacks are firmly on the ground. Using the bubble level on the rear side to side level sensing unit, determine the low side of the vehicle. Close both solenoid valves for the rear jack on the high side of the vehicle. Use the pump run switch to extend the low jack to center the side to side bubble as close as possible. Close both jack solenoid valves. Again, determine the low side according to the rear side to side bubble level. **The bubble must be centered exactly between the lines.** If minor adjustment is needed to center the bubble, use the manual precision leveling process to extend the jack on the low side.

**MANUAL PRECISION LEVELING:** Open jack manifold valve number 1 for the jack(s) that need to be extended. Open pump manifold valve number 5. Both valves should remain open during this procedure. Push and hold the pump run switch during the manual precision leveling procedure. The jack(s) with the open number 1 valve will extend slightly. After approximately 4 seconds, open the number six pump manifold valve. After approximately 4 seconds, close the number 6 valve. The pump will load up with the number 6 valve closed and unload with the number 6 valve open. The jack(s) will move slightly each time the number six valve is closed. Repeat the 4 seconds closed with 4 seconds opened sequence until the jacks are extended as necessary.



When the bubble is precisely centered between the lines of the bubble level, adjust the side to side sensing unit until all four yellow lights are out. This process is described on the previous page. Close all rear jack manifold valves when the rear side to side sensing unit adjustment is complete.

**Adjust the rear sensing unit with the front to rear bubble level.** When the rear side to side level sensing unit is adjusted, open the number 1 and 2 jack manifold valves for both front jacks. Open the number 5 pump manifold valve. Use the pump run switch to extend the front jacks until they are both firmly on the ground. Check the rear sensing unit front to rear bubble level. Get the bubble level centered as close as possible with the front of the vehicle slightly low. Close the number 2 valve on both front jack manifolds and use the Manual Precision Leveling procedure to precisely center the bubble between the lines of the front to rear bubble level. When the bubble is precisely centered, adjust the front to rear sensing unit until all level lights are out. Close all valves when finished.

When the front to rear level sensor is adjusted, recheck the side to side bubble level on the rear side to side level sensing unit.

**If the bubble is not centered,** use the manual precision leveling procedure to center the bubble. Adjust the rear side to side level sensing unit as necessary to turn any lit level lights out.

**If the bubble is still centered,** check the rear side to side level sensor level lights. Adjust as necessary so all lit level lights are out.

Alternate checking both rear sensing units until both bubble levels are precisely centered and all level lights on both rear level sensors are off. Precision level and adjust sensing units as necessary.

When both rear sensing units are properly adjusted, adjust the front level sensing unit so all four level lights are off.

**IMPORTANT: ONCE THE REAR SIDE TO SIDE BUBBLE LEVEL AND THE FRONT TO REAR BUBBLE LEVEL ARE PRECISELY CENTERED DO NOT EXTEND OR RETRACT ANY JACKS UNTIL ALL THREE LEVEL SENSING UNITS ARE ADJUSTED.**

When all adjustments are complete, close all jack manifold and pump manifold valves. Move the control box ADJUSTING ENHANCEMENT SWITCH to the OPERATE POSITION (NORMAL).

Move the vehicle to an out of level position and try automatic leveling. Repeat adjustments as necessary.