

**FINAL CHECK OUT**

**HWH 400 SERIES, COMPUTER-CONTROLLED LEVELING SYSTEM  
PADDLE SWITCHES WITH AIR DUMP**

MANUFACTURER \_\_\_\_\_ TYPE \_\_\_\_\_ DATE \_\_\_\_\_

VEHICLE ID# \_\_\_\_\_ INSPECTOR \_\_\_\_\_

**CAUTION:** DO NOT OPERATE THIS SYSTEM UNLESS FULLY INSTRUCTED ON SYSTEM SAFETY PROCEDURES.

**1. MOUNTING BRACKET HEIGHT:**

A. MAKE SURE JACKS ARE FULLY RETRACTED.

B. PULL JACK BY HAND TO THE VERTICAL POSITION AND CHECK DIMENSION A. (SEE FIGURE 1) DIMENSION "A" SHOULD BE 3 TO 5 INCHES FOR DRY NEW VEHICLES AND 2 TO 4 INCHES FOR WET VEHICLES WITH OVER 10,000 MILES.

[COMMENTS]

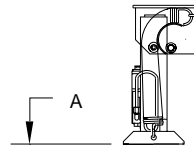


FIGURE 1

OK	REWORK
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<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
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**2. STORED POSITION STOP:**

SPACE MUST BE ALLOWED FOR THE JACK TO FULLY EXTEND IN THE STORED (HORIZONTAL) POSITION (SEE FIGURE 2) ALSO BE SURE TIRES, SPRINGS, STEERING LINKAGE, ECT., DO NOT INTERFERE IF THE JACK IS FULLY EXTENDED IN THE STORE/TRAVEL POSITION.

[COMMENTS]

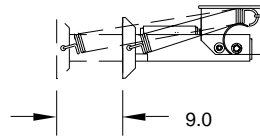


FIGURE 2

**3. HOSE AND ELECTRICAL WIRING:**

CHECK HOSES AND WIRING FOR KINKING OR RUBBING ON SHARP OBJECTS WHEN JACKS ARE OPERATED. ALSO CHECK THE ROUTING OF HOSES AND WIRING TO INSURE THEY WILL NOT BE EXPOSED TO TEMPERATURES GREATER THAN 200 DEG. F.

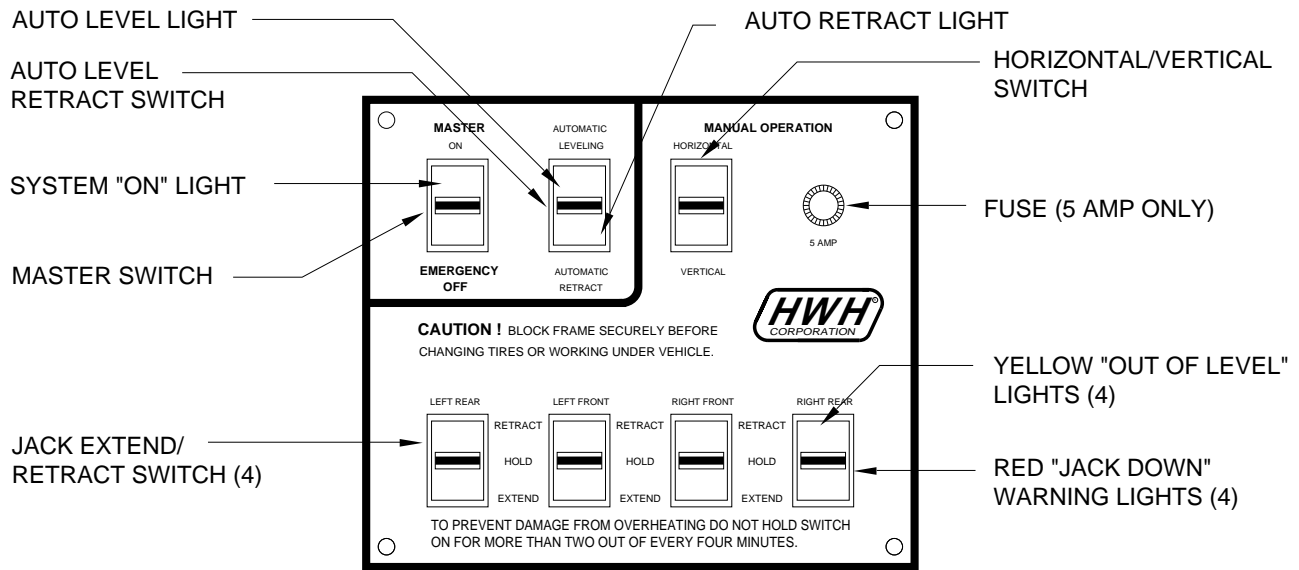
[COMMENTS]

**NOTE:** CHECK OIL LEVEL IN RESERVOIR BEFORE PROCEEDING. OIL SHOULD BE WITHIN ONE INCH OF THE TOP OF THE RESERVOIR. JACKS MUST BE FULLY RETRACTED TO CHECK THE HYDRAULIC OIL LEVEL.

**4. POWER CONNECTION:**

TURN IGNITION SWITCH TO "OFF", TURN LEVELING SYSTEM MASTER SWITCH TO "ON". NO LIGHTS SHOULD BE ON. PUSH HORIZONTAL/VERTICAL SWITCH TOWARD VERTICAL, NOTHING SHOULD HAPPEN. TURN MASTER SWITCH OFF.

[COMMENTS]



**5. MASTER SWITCH:**

TURN IGNITION SWITCH TO "ACC". TURN LEVELING SYSTEM MASTER SWITCH TO "ON". THE RED SYSTEM "ON" LIGHT SHOULD COME ON AND ONE OR TWO YELLOW LIGHTS SHOULD COME ON. IF THE VEHICLE IS LEVEL NO YELLOW LIGHTS SHOULD COME ON. NOTHING ELSE SHOULD HAPPEN.

[COMMENTS]

**6. VERTICAL OPERATION:**

PUSH THE HORIZONTAL/VERTICAL SWITCH TOWARD "VERTICAL" AND HOLD FOR APPROXIMATELY 5 SECONDS.

THE PUMP SHOULD COME ON, ALL FOUR JACKS SHOULD SWING VERTICAL, AND THE 4 RED "JACKS DOWN" LIGHTS SHOULD COME ON. THE PUMP SHOULD STOP AS SOON AS THE SWITCH IS RELEASED. THE MASTER "JACKS DOWN" WARNING LIGHT ON THE DASH SHOULD COME ON AS SOON AS A JACK SWINGS VERTICAL.

CHECK IF ALL JACKS ARE PERPENDICULAR TO THE FLOOR OF THE VEHICLE. IF TILTED THEY NEED ADJUSTMENT.

[COMMENTS]

**7. INDIVIDUAL JACK OPERATION:**

PUSH RIGHT REAR SWITCH TOWARD EXTEND UNTIL JACK LIFTS THE VEHICLE APPROXIMATELY THREE INCHES. CHECK THAT ONLY THE RIGHT REAR JACK HAS EXTENDED. PUSH RIGHT REAR SWITCH TOWARD RETRACT UNTIL JACK MAIN CYLINDER HAS RETRACTED. (TAKES 5 TO 10 SECONDS). THE JACKS WILL STILL BE VERTICAL. NOW REPEAT THE ABOVE WITH THE OTHER THREE JACKS CHECKING THAT ONLY THE CORRESPONDING JACK EXTENDS OR RETRACTS WHEN A SWITCH IS OPERATED.

[COMMENTS]

**8. HORIZONTAL OPERATION:**

PUSH HORIZONTAL/VERTICAL SWITCH TOWARD HORIZONTAL UNTIL THE 4 RED "JACKS DOWN" LIGHTS GO OUT. CHECK THAT ALL JACKS HAVE FOLDED TO THE HORIZONTAL POSITION.

[COMMENTS]

	OK	REWORK
5. MASTER SWITCH:	<input type="checkbox"/>	<input type="checkbox"/>
6. VERTICAL OPERATION:	<input type="checkbox"/>	<input type="checkbox"/>
7. INDIVIDUAL JACK OPERATION:	<input type="checkbox"/>	<input type="checkbox"/>
8. HORIZONTAL OPERATION:	<input type="checkbox"/>	<input type="checkbox"/>

OK REWORK

**9. MOUNTING BRACKET CHECK:**

CHECK ALL MOUNTING BRACKETS AND WELDS FOR PHYSICAL DAMAGE.

**[COMMENTS]**

**10. HYDRAULIC OIL LEVEL:**

CHECK RESERVOIR OIL LEVEL. OIL SHOULD BE WITHIN ONE INCH OF THE TOP OF THE TANK. IF OIL IS LOW DO NOT CONTINUE UNTIL THE TANK HAS BEEN FILLED. POWER UNIT COULD BE DAMAGED. THE JACKS MUST BE FULLY RETRACTED TO CHECK HYDRAULIC OIL LEVEL.

**[COMMENTS]**

**11. AUTO LEVELING-1ST STAGE:**

TURN ON MASTER SWITCH AND POSITION VEHICLE UNTIL ONE OR MORE YELLOW LIGHTS ARE ON. THEN MOMENTARILY PRESS THE AUTOMATIC LEVEL/AUTOMATIC RETRACT SWITCH TOWARD AUTOMATIC LEVEL.

A. THE RED AUTO LEVEL LIGHT SHOULD START TO FLASH.

B. THE PUMP SHOULD START.

C. ALL JACKS SHOULD SWING VERTICAL.

D. THE FOUR RED JACKS DOWN LIGHTS AND THE DASH WARNING LIGHT SHOULD LIGHT AS THE JACK SWING TO VERTICAL.

E. THE PUMP SHOULD STOP.

F. THE RED AUTO LEVEL LIGHT SHOULD NOW GLOW STEADY RED.

**[COMMENTS]**

**12. AUTO LEVELLING-2ND STAGE:**

MOMENTARILY PRESS THE AUTO LEVEL/RETRACT SWITCH OF A SECOND TIME TOWARD AUTO LEVEL.

A. THE RED AUTO LEVEL LIGHT SHOULD START TO BLINK.

B. (FOR AUTOMATIC AIR DUMP SYSTEMS ONLY.) THE AIR WILL DUMP AT THIS TIME WITH 30 SECONDS ALLOWED FOR DUMPING BEFORE THE LEVELING STARTS.

C. ONE OR TWO JACKS AT A TIME WILL EXTEND CORRESPONDING TO ANY YELLOW LIGHT WHICH IS LIT. THE PUMP WILL CYCLE ON AND OFF AS REQUIRED. THERE WILL BE A 5 SECOND PAUSE BETWEEN THE OPERATION OF THE JACKS. THIS SHOULD CONTINUE UNTIL ALL YELLOW LIGHTS ARE OUT OR UNTIL ONE OF THE JACKS HAVE REACHED FULL STROKE.

D. THE PUMP WILL COME ON AND RUN APPROXIMATELY 30 SECONDS. DURING THIS TIME ANY JACK NOT ALREADY TOUCHING THE GROUND WILL BE EXTENDED TO TOUCH THE GROUND. NOTE: THE JACKS SHOULD LIFT THE VEHICLE AT LEAST 1/2 INCH BUT SHOULD NOT LIFT THE VEHICLE MORE THAN ONE INCH.

E. THE RED AUTO LEVEL LIGHT WILL GO OUT.

**[COMMENTS]**

OK

REWORK

**13. SENSING UNIT:**

LEAVE VEHICLE RUNNING DURING THIS STEP. THE VEHICLE SHOULD RETURN TO PROPER RIDE HEIGHT.  
**[COMMENTS]**

**14. REBUILD AIR (FOR AIR SUSPENSION VEHICLES ONLY)**

START THE VEHICLE AND BUILD UP AIR PRESSURE. LEAVE VEHICLE RUNNING DURING THIS STEP. VEHICLE SHOULD RETURN TO PROPER RIDE HEIGHT.  
**[COMMENTS]**

**15. AUTOMATIC RETRACT (STORE):**

TURN THE IGNITION SWITCH TO THE ON ACCESSORY POSITION. TURN THE MASTER SWITCH ON. (IF THE SWITCH IS ON TURN IT OFF AND THEN ON . THIS RESETS THE MICROPROCESSOR.) MOMENTARILY PRESS THE AUTO/RETRACT SWITCH, TOWARD AUTOMATIC RETRACT.

A. THE RED RETRACT LIGHT WILL START TO FLASH.

B. AS EACH JACK CLEARS THE GROUND, IT SHOULD SWING HORIZONTAL AND CONTINUE TO RETRACT.

C. AS EACH JACK SWINGS HORIZONTAL, IT'S RESPECTIVE RED LIGHT SHOULD GO OUT. WHEN ALL JACKS ARE HORIZONTAL, THE DASH MOUNTED WARNING LIGHT SHOULD GO OUT.

D. THE RED AUTO RETRACT LIGHT WILL STOP FLASHING 4 MINUTES AFTER RETRACT IS INITIATED.

CHECK THAT ALL JACKS ARE HORIZONTAL AND COMPLETELY RETRACTED, TURN THE MASTER SWITCH OFF.

**[COMMENTS]**