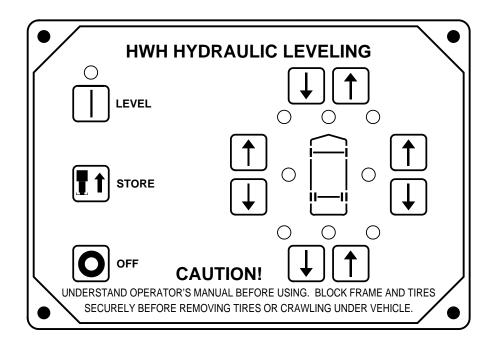


OPERATOR'S MANUAL

HWH[°] TOUCH PANEL-CONTROLLED 325 SERIES LEVELING SYSTEM

FEATURING:

Touch Panel Leveling Control BI-AXIS[®] Hydraulic Leveling Straight-Acting Jacks Pilot Operated Suspension Air Dump



HWH CORPORATION

(On I-80, Exit 267 South) 2096 Moscow Road | Moscow, Iowa 52760 Ph: 800/321-3494 (or) 563/724-3396 | Fax: 563/724-3408 www.hwh.com

OPERATOR'S MANUAL

CAUTION !

READ THE ENTIRE OPERATOR MANUAL BEFORE OPERATING.

BLOCK FRAME AND TIRES SECURELY BEFORE CRAWLING UNDER VEHICLE. DO NOT USE LEVELING JACKS OR AIR SUSPENSION TO SUPPORT VEHICLE WHILE UNDER VEHICLE OR CHANGING TIRES. VEHICLE MAY DROP AND/OR MOVE FORWARD OR BACKWARD WITHOUT WARNING CAUSING INJURY OR DEATH.

KEEP ALL PEOPLE CLEAR OF VEHICLE WHILE OPERATING LEVELING SYSTEM OR ROOM EXTENSIONS.

KEEP ALL PEOPLE CLEAR OF VEHICLE WHILE DUMPING AIR FROM THE VEHICLE'S SUSPENSION.

DO NOT MOVE THE VEHICLE IF THE VEHICLE IS NOT AT THE PROPER RIDE HEIGHT. CONTACT MANUFACTURER TECHNICAL SERVICE FOR MOVING THE VEHICLE WHEN NOT AT THE PROPER RIDE HEIGHT.

WEAR SAFETY GLASSES WHEN INSPECTING OR SERVICING THE SYSTEM TO PROTECT EYES FROM DIRT, METAL CHIPS, OIL LEAKS, ETC. FOLLOW ALL OTHER APPLICABLE SHOP SAFETY PRACTICES.

IMPORTANT: IF COACH IS EQUIPPED WITH A ROOM EXTENSION, READ ROOM EXTENSION SECTION BEFORE OPERATING LEVELING SYSTEM.

HOW TO OBTAIN WARRANTY SERVICE

THIS IS NOT TO BE INTERPRETED AS A STATEMENT OF WARRANTY

HWH CORPORATION strives to maintain the highest level of customer satisfaction. Therefore, if you discover a defect or problem, please do the following:

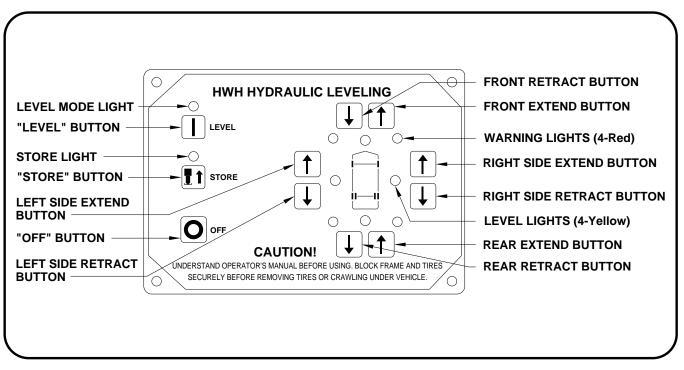
FIRST: Notify the dealership where you purchased the vehicle or had the leveling system installed. Dealership management people are in the best position to resolve the problem quickly. If the dealer has difficulty solving the problem, he should immediately contact the Customer Service Department, at HWH CORPORATION.

SECOND: If your dealer cannot or will not solve the problem, notify the Customer Service Department: HWH CORPORATION 2096 Moscow Rd. Moscow IA. 52760

(563) 724-3396 OR (800) 321-3494. Give your name and address, coach manufacturer and model year, date the coach was purchased, or the date of system installation,

description of the problem, and where you can be reached during business hours (8:00 a.m. till 5:00 p.m. c.s.t.). HWH CORPORATION personnel will contact you to determine whether or not your claim is valid. If it is, HWH CORPORATION will authorize repair or replacement of the defective part, either by appointment at the factory or by the authorization of an independent service facility, to be determined by HWH CORPORATION. All warranty repairs must be performed by an independent service facility authorized by HWH CORPORATION, or at the HWH CORPORATION factory, unless prior written approval has been obtained from proper HWH CORPORATION personnel.

CONTROL IDENTIFICATION



CONTROL FUNCTIONS

CONTROL BUTTONS

"LEVEL" BUTTON: This button places the system in leveling mode.

"OFF" BUTTON: This button turns off control power to the leveling system.

"STORE" BUTTON: This button will retract all four jacks. (The panel must be off before pressing the "STORE" button)

EXTEND BUTTONS (UP ARROWS): These buttons will extend their respective jack pairs to lift the vehicle.

RETRACT BUTTONS (DOWN ARROWS): These buttons will retract their respective jack pairs to lower the vehicle.

INDICATOR LIGHTS

LEVEL MODE LIGHT: This light indicates the system is in the leveling mode.

STORE LIGHT: This light will be on when the system is in the store mode.

LEVELING LIGHTS: If a yellow LEVELING light is on, that indicates a side, corner, or end of the vehicle is low. Extend the appropriate jack pairs to put out the yellow light. One or two yellow LEVELING lights can be on at a time. The vehicle is level when all yellow lights are out.

WARNING LIGHTS: A red WARNING light will be on whenever the corresponding jack is extended approximately 1/2 inch, provided the ignition is in the "ACC" or "ON" position. Some vehicles are equipped with a dash mounted master "JACKS DOWN" light which will be on when one or more jacks are extended approximately 1/2 inch and the ignition is in the "ON" position.

WARNING BUZZER: A buzzer will sound if a jack is extended approximately 1/2 inch or more and the ignition switch is in the "ON" position.

GENERAL INSTRUCTIONS

Site selection - Maintain adequate clearance in all directions for vehicle, room extensions, awnings, doors, steps, etc. Vehicle may move in any direction due to jacks extending or retracting, settling of jacks or vehicle, equipment malfunction, etc. If parking on soft ground or asphalt paving, a wood block or pad should be placed under each jack.

Read all room extension operating procedures before before extending or retracting any room.

It is the operator's responsibility to check that the jacks are completely retracted and any room extension or generator slide is completely retracted before moving the vehicle.

IMPORTANT: Do not use a room extension support when the vehicle is supported by the leveling system.

LEVELING PROCEDURE

1. Place gear selector in the parking position, apply park brake and block tires securely.

NOTE: If the park brake is not set the panel will have power but the pump will not run. The jacks can not be extended until the park brake is set.

2. Turn ignition switch to "ACCESSORY".

3. Push the "LEVEL" button on the touch panel. The LEVEL MODE light will come ON.

NOTE: The air will start to dump from the suspension when the "LEVEL" button is pushed. Allow the air to exhaust completely before leveling the vehicle.

4. Place a pad under each jack, if needed, at this time.

5. A lit yellow LEVEL light indicates that end, side or corner is low. Push an EXTEND (up arrow) button to extend jack pairs according to a lit yellow light.

ALWAYS LEVEL THE VEHICLE FROM SIDE TO SIDE, IF NECESSARY, BEFORE LEVELING THE VEHICLE FRONT TO REAR. One or two yellow LEVEL lights can be on at one time. Extend jack pairs accordingly until all yellow lights are out.

NOTE: If the ground is too uneven, the jacks may not have enough stroke to level the vehicle. The vehicle may have to be moved.

6. After the vehicle is level, the jacks not used for leveling may be extended until they touch the ground. The remaining jacks used to stabilize the vehicle should lift the vehicle slightly after touching the ground. This provides additional stability against wind and activity in the vehicle. Do this by pushing the front and/or rear EXTEND buttons as needed to extend any remaining jacks. Do not use the right or left EXTEND buttons.

7. Push the "OFF" button on the Touch Panel.

8. Turn the ignition switch off.

NOTE: The leveling system should be cycled once a month or whenever the vehicle is used, to keep the system in operating condition.

ROOM EXTENSION PROCEDURES

IMPORTANT: If the vehicle is equipped with a room extension read this section carefully.

If the vehicle is equipped with kick-down jacks, the wheels <u>MUST</u> be blocked securely. It is recommended to complete the Leveling Procedure before operating room extensions. It is recommended to retract room extensions before retracting jacks.

Refer to the vehicle owners manual for proper operation of room extensions.

IMPORTANT: Do not use a room extension support when the vehicle is supported by the leveling system.

RETRACT PROCEDURE

CAUTION: THE OPERATOR MUST BE SURE THAT THERE ARE NO OBJECTS UNDER THE VEHICLE AND THAT ALL PEOPLE ARE CLEAR OF THE VEHICLE.

NOTE: If the Leveling Mode light is on, the "STORE" button will not function.

NORMAL RETRACT PROCEDURE

NOTE: It is recommended that all room extensions are retracted before storing the jacks.

1. Start engine. Immediately store the jacks.

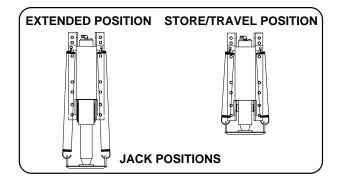
NOTE: When the jacks are stored with the ignition in the ON position, the warning buzzer will sound until the jacks have retracted to the STORE position. If desired, the jacks can be stored with the ignition key in the accessory position. This will eliminate the warning buzzer while the jacks are retracting. If the jacks are stored with the ignition in the accessory position, it is important to push the "STORE" button after starting the engine.

2. Press OFF.

3. Press STORE. The "STORE" light will come on. As each jack retracts it's red warning light will go out. The vehicle suspension should return to the proper ride height for traveling.

IMPORTANT: Pushing the "OFF" button or moving the ignition key will interrupt the STORE mode. The jacks will stop retracting. The STORE mode should be completed before traveling.

NOTE: When traveling, with rising temperatures a jack may extend slightly. If the unit is left in STORE mode the system will automatically retract the jack.



5. The system will stay in the STORE mode until the "OFF" button is pushed or the ignition key is turned.

IMPORTANT: If a red Warning Light and the buzzer come on while traveling and will not go out in a reasonable time, 1 minute or less, push the "OFF" button to turn the system off. Have the system serviced.

CAUTION: DO NOT MOVE THE VEHICLE WHILE THE JACKS ARE STILL IN CONTACT WITH THE GROUND OR IN THE EXTENDED POSITION. THIS VEHICLE IS EQUIPPED WITH STRAIGHT-ACTING JACKS. MOVING THE VEHICLE WITH THE JACKS EXTENDED CAN CAUSE SEVERE DAMAGE TO THE JACKS AND/OR THE VEHICLE AND CREATE A DRIVING HAZARD. DO NOT RELY SOLELY UPON THE WARNING LIGHTS. IT IS THE OPERATOR'S RESPONSIBILITY TO CHECK THAT ALL JACKS ARE RETRACTED INTO THE STORE/TRAVEL POSITION.

NOTE: If jacks cannot be retracted by the above procedure see MANUAL JACK RETRACTION Section.

See TRAVEL PROCEDURES before moving the vehicle and traveling.

CAUTION: THIS VEHICLE IS EQUIPPED WITH AN AIR SUSPENSION. THE SUSPENSION MUST BE AT THE PROPER RIDE HEIGHT BEFORE TRAVELING, IT IS THE OPERATOR'S RESPONSIBILITY TO CHECK THAT THE SUSPENSION IS AT THE PROPER RIDE HEIGHT FOR TRAVELING.

NOTE: If the vehicle is parked or stored with the jacks extended for an extended period of time and the jacks fail to retract completely, extend the jacks back down to the ground then retract the jacks again.

TRAVEL PROCEDURES

Start the vehicle engine before retracting the jacks. Push the "STORE" button to retract the jacks, the STORE light will come on.

IMPORTANT: Pushing the "OFF" button or moving the ignition key will stop the STORE procedure. The jacks will stop retracting. Thermal expansion can cause a jack to extend slightly.

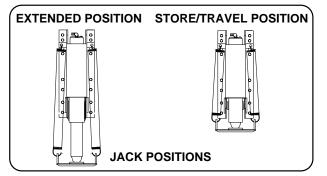
NOTE: If the jacks are stored with the ignition in the accessory position, the "STORE" button should be pushed after starting the engine.

It is important when traveling that the STORE light is on and the system left in the store mode. This allows a jack that extends due to thermal expansion to automatically retract.

CAUTION: A WARNING LIGHT OR BUZZER COMING ON BRIEFLY WHILE TRAVELING DOES NOT INDICATE A DRIVING HAZARD. IF THE "STORE" LIGHT IS ON AND THE WARNING LIGHT AND BUZZER COME ON, STAYING ON MORE THAN 30 SECONDS, THE JACKS SHOULD BE CHECKED.

Due to thermal expansion of the hydraulic fluid in the Leveling System, at times the jacks will extend slightly. The system will automatically retract the jacks, if the STORE light is on when this happens.

Any time the vehicle engine is stopped during traveling, such as for refueling, the STORE button should be pushed after the engine is started again before continuing to travel. During traveling if the STORE light is not on and the Jacks Down Warning Buzzer comes on, push the "STORE" button and leave the system in the STORE mode.



CAUTION: DO NOT MOVE THE VEHICLE WHILE THE JACKS ARE STILL IN CONTACT WITH THE GROUND OR IN THE EXTENDED POSITION. THIS VEHICLE IS EQUIPPED WITH STRAIGHT-ACTING JACKS. MOVING THE VEHICLE WITH THE JACKS EXTENDED CAN CAUSE SEVERE DAMAGE TO THE JACKS AND/OR THE VEHICLE AND CREATE A DRIVING HAZARD. DO NOT RELY SOLELY UPON THE WARNING LIGHTS. IT IS THE OPERATOR'S RESPONSIBILITY TO CHECK THAT ALL JACKS ARE RETRACTED INTO THE STORE/TRAVEL POSITION AND THE VEHICLE IS AT THE PROPER RIDE HEIGHT FOR TRAVELING. CONTACT MANUFACTURER TECHNICAL SERVICE BEFORE MOVING A VEHICLE THAT IS NOT AT PROPER TRAVEL HEIGHT.

MANUAL JACK RETRACTION

NOTE: Some assemblies have 4 large valves, some have 4 small valves and some will have 2 large valves in the outer positions and 2 small valves in the center positions.

CAUTION: KEEP AWAY FROM THE WHEELS, DO NOT CRAWL UNDER THE VEHICLE, KEEP A SAFE DISTANCE IN FRONT AND REAR OF THE VEHICLE. THE VEHICLE MAY DROP AND/OR MOVE FORWARD OR BACKWARD WITHOUT WARNING AS THE VALVE RELEASE IS OPERATED.

1. Locate the manual valve release on each solenoid valve. The solenoid valves are located on the power unit/valve assembly.

2. Allow clearance for the vehicle to lower.

IMPORTANT: Only open the valves enough to retract the jacks. DO NOT turn valve release nuts more than 4 and 1/2 turns. Turning the nuts more could damage the valves.

Valve relese T-Handles will turn several turns easily. As the valve starts to open, the T-Handles will turn harder. Make sure the valves have been opened far enough to allow the jacks to retract. 3. Retract the front jacks by opening the two center valves. Slowly turn the manual valve releases counter clockwise until the jacks start to retract.

4. Repeat the process for the rear jacks by opening the two outer valves.

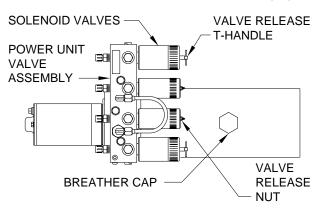
NOTE: Prior to APRIL 2002 a 1/4" Nut Driver was sent with the Operators Manual. As of APRIL 2002 the 1/4" Nut Driver has been incorporated into the Breather Cap. See the back page of this manual for further info.

5. Check that all four jacks are now retracted.

6. Close the valves by turning the manual valve releases clockwise.

IMPORTANT: Once the manual valve release is snug, DO NOT tighten the manaual valve release past this point as internal damage may occur to the solenoid.

7. The system should now be repaired before using again.



SENSING UNIT ADJUSTMENT

Level the vehicle by placing a bubble level in the center of the freezer floor or upon whichever surface within the vehicle that is to be level. Using the Leveling System and the bubble level, ignoring the yellow LEVEL lights on the Touch Panel, level the vehicle until the bubble is centered.

With the vehicle level according to the bubble level, if there are no yellow lights lit on the Touch Panel, the sensing unit is properly adjusted. If there are yellow LEVEL lights lit on the Touch Panel, manual adjustments to the Sensing Unit are needed. A 7/8", 3/4" or 5/16" socket w/driver or box end wrench and a philips screw driver will be needed.

The Sensing Unit is mounted inside the Control Box. The Control Box is mounted to the power unit/valve assembly.

There are four LED's on the Sensing Unit, A,B,C and D. Refer to the drawing below. The Sensing Unit is adjusted by turning the adjustment nut to turn out LED's B and D. The adjustment screw will turn out LED's A and C. If the adjustment nut has to be turned more than 1/2 flat or the adjustment screw has to be turned more than 3/4 turn to turn the LED out, there may be a problem with the Sensing Unit or the mounting of the Control Box. If two LED's are on, it is best to make the B-D adjustments first, then hold the adjustment nut from moving while making the A-C adjustment.

NOTE: If opposing LED's are lit, there is a problem with the Sensing Unit.

If LED (A) is lit: Turn the adjustment screw COUNTER CLOCKWISE until the LED is off.

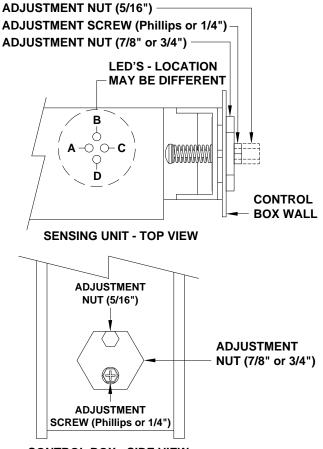
If LED (C) is lit: Turn the adjustment screw CLOCKWISE until the LED is off.

If LED (B) is lit: Turn the adjustment nut COUNTER CLOCKWISE until the LED is off.

If LED (D) is lit: Turn the adjustment nut CLOCKWISE until the LED is off.

IMPORTANT: When all 4 LED's are off, move the vehicle to an unlevel position so one or two yellow lights are on. Level the vehicle according to the yellow LEVEL lights. Recheck the level. If more adjustment is needed, DO NOT try to adjust the sensing unit until the yellow level lights go out, instead just "tweak" the sensing unit, ignoring the LED's on the sensing unit.

Example: After the initial adjustment and releveling the vehicle, the front is still low. This means the front yellow level light is turning off too soon. Determine which sensing unit light is the front light, A-B-C or D. Move the adjustment for that light very, very, slightly in the OPPOSITE direction that is given in the above instructions for LED's A, B, C, and D. This will allow the front yellow light to stay on slightly longer to bring the front up more. Again, unlevel the vehicle then relevel the vehicle using the yellow level lights on the touch panel. Recheck with a level. Repeat the "tweaking" process until the system levels the vehicle properly.



CONTROL BOX - SIDE VIEW

NOT IN PARK/BRAKE CHECK

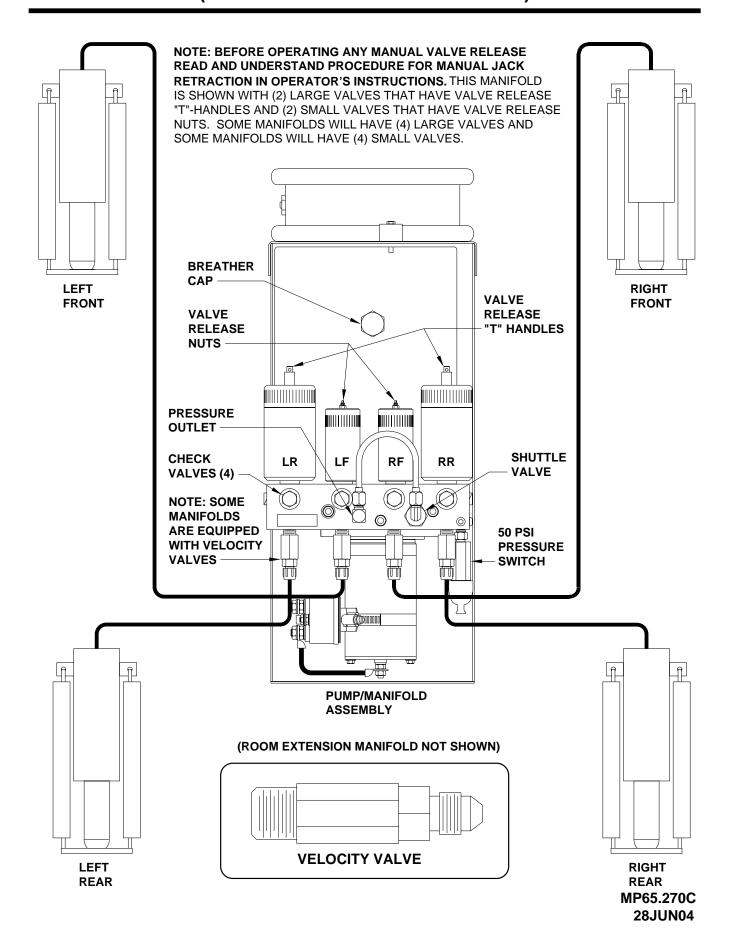
CAUTION: WHEN MAKING THIS CHECK, BLOCK THE COACH WHEELS SECURELY SO THE COACH CANNOT ROLL FORWARD OR BACKWARD.

Set the park/brake. Switch the ignition to the "ACC" or "ON" position. Push the "ON/OFF" switch toward "ON". Release the parking brake and confirm that the "PARK" indicator light comes on. Reset the parking brake. The "PARK" indicator light should go out. Switch the ignition to "OFF".

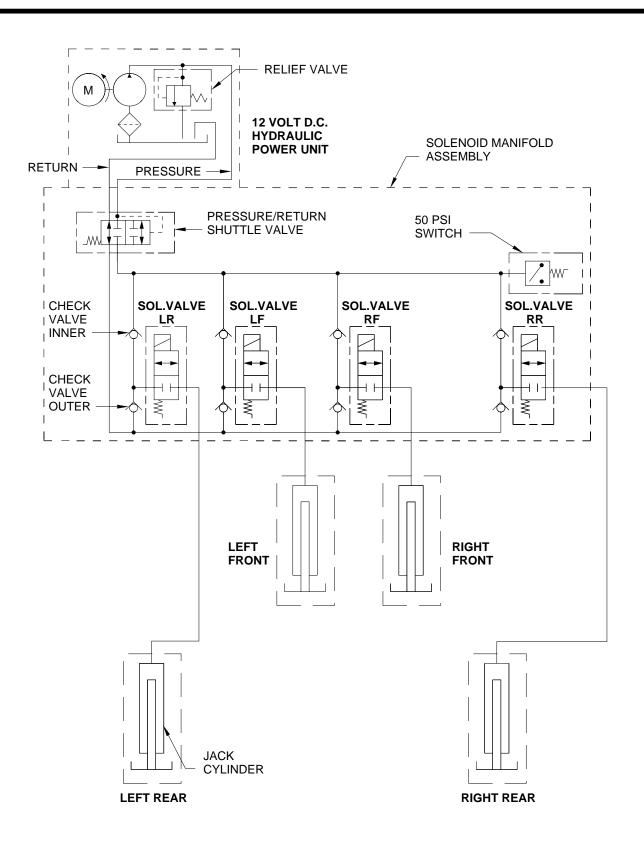
If any of the above checks or inspections reveal a problem or if there are other problems or questions, consult a qualified RV repair center, your vehicle or coach manufacturer, or HWH CORPORATION for service or repair.

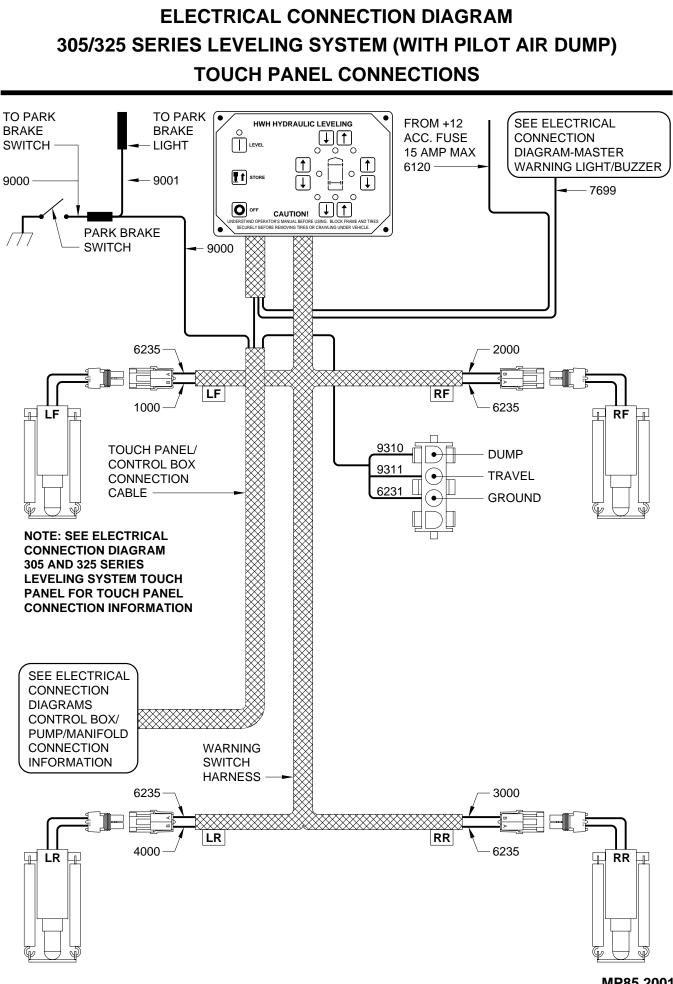
> MP45.3259 19FEB07

HYDRAULIC LINE CONNECTION DIAGRAM 305/325 SERIES LEVELING SYSTEM (WITH 4 STRAIGHT-ACTING JACKS)



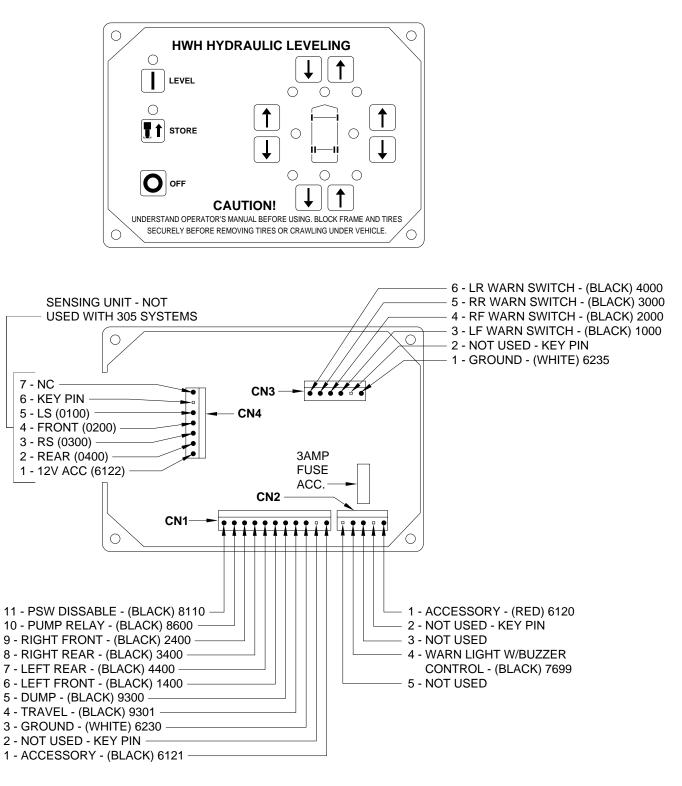
HYDRAULIC SCHEMATIC 305/310/325 SERIES LEVELING SYSTEM WITH STRAIGHT-ACTING JACKS





MP85.2001 15SEP03

ELECTRICAL CONNECTION DIAGRAM 325 SERIES LEVELING SYSTEM TOUCH PANEL

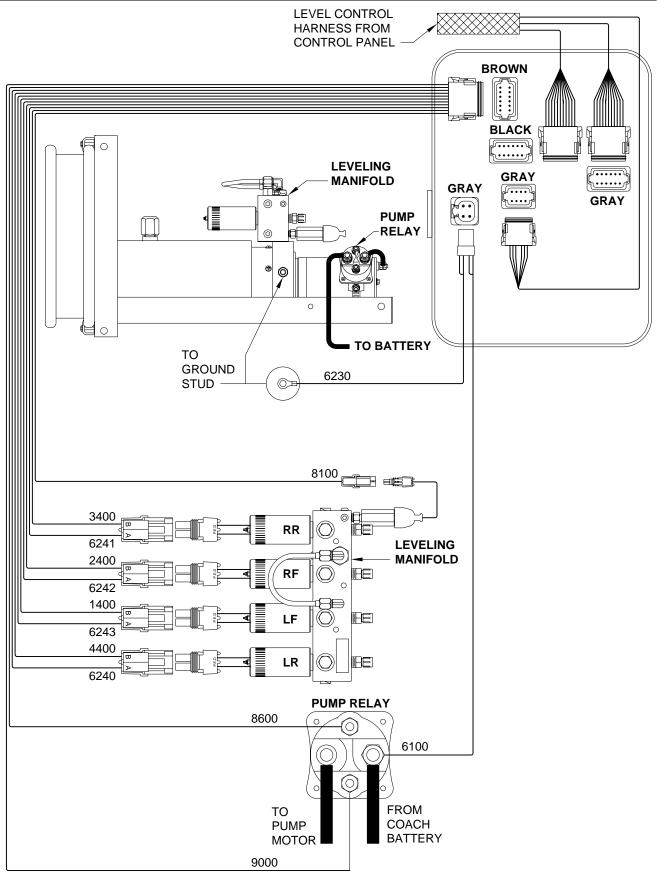


NOTE: FOR WIRE FUNCTION INFORMATION SEE ELECTRICAL CONNECTION DIAGRAM - TOUCH PANEL WIRE LEGEND.

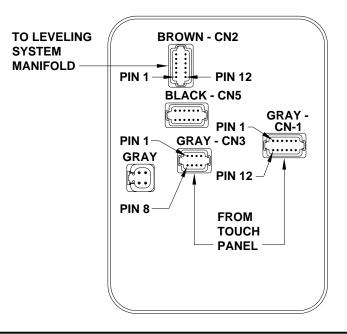
ELECTRICAL CONNECTION DIAGRAM 325 SERIES LEVELING SYSTEM TOUCH PANEL WIRE LEGEND

PIN #	WIRE COLOR	WIRE NUMBER	WIRE DESCRIPTION AND FUNCTION
CN1 —			- 11 PIN CONNECTOR
1 — —	- BLACK	— — 6120 — —	+12V ACC. POWER FOR CONTROL BOX
			KEY PIN - NO CONNECTION
3 — —	- white $ -$	— — 6230 — —	CHASSIS GROUND FROM CONTROL BOX
			SWITCHED GROUND TO CONTROL BOX FOR TRAVEL
	- BLACK $ -$	— — 9300 — —	SWITCHED GROUND TO CONTROL BOX FOR DUMP
	- BLACK $ -$	— — 1400 — —	SWITCHED GROUND TO CONTROL BOX FOR LF SOLENOID VALVE
	- BLACK $ -$		SWITCHED GROUND TO CONTROL BOX FOR LR SOLENOID VALVE
			SWITCHED GROUND TO CONTROL BOX FOR RR SOLENOID VALVE
) — —	- BLACK $ -$	— — 2400 — —	SWITCHED GROUND TO CONTROL BOX FOR RF SOLENOID VALVE
0 0	- BLACK $ -$	8600	SWITCHED GROUND TO CONTROL BOX FOR PUMP RELAY
1	- BLACK $ -$		SWITCHED GROUND TO CONTROL BOX FOR STORE
			- 5 PIN CONNECTOR
	- RED $ -$	6121	+12V ACC. POWER
	·		 KEY PIN - NO CONNECTION
	·		- NO CONNECTION
			SWITCHED GROUND FOR WARNING LIGHT/BUZZER CONTROL
. — —	·		- NO CONNECTION
			6 PIN CONNECTOR
	- white $ -$	6235	GROUND FOR JACK WARNING SWITCHES
			KEY PIN - NO CONNECTION
	- BLACK $ -$	1000	SWITCHED GROUND FOR LF WARNING LIGHT
			SWITCHED GROUND FOR RF WARNING LIGHT
			SWITCHED GROUND FOR RR WARNING LIGHT
			SWITCHED GROUND FOR LR WARNING LIGHT
			- 7 PIN CONNECTOR
			+12V ACC. POWER FOR LEVEL SENSING UNIT
			SWITCHED GROUND FOR REAR LEVEL LIGHT
			SWITCHED GROUND FOR RIGHT SIDE LEVEL LIGHT
			SWITCHED GROUND FOR FRONT LEVEL LIGHT
			SWITCHED GROUND FOR LEFT SIDE LEVEL LIGHT
			KEY PIN - NO CONNECTION
′ — —	- WHITE $ -$		 GROUND FOR LEVEL SENSING UNIT (MAY NOT BE USED)

ELECTRICAL CONNECTION DIAGRAM 305/325 SERIES POWER UNIT LEVELING MANIFOLD - PUMP RELAY - AIR DUMP

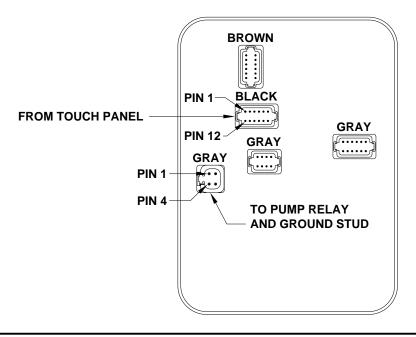


ELECTRICAL CONNECTION DIAGRAM 325 SERIES LEVELING SYSTEM CONTROL BOX CONNECTION INFORMATION PAGE 1 OF 2



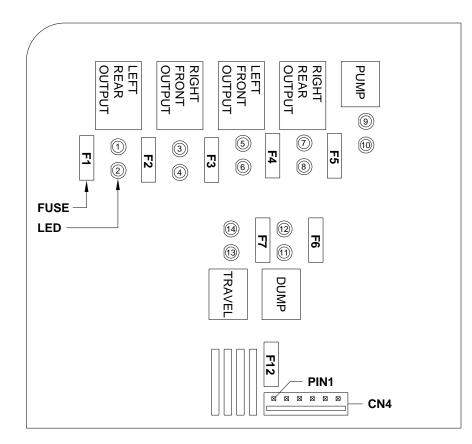
PIN #	WIRE COLOR	WIRE NUMBER	WIRE DESCRIPTION AND FUNCTION
CN1 —			12 PIN GRAY CONNECTOR
1 — —	BLACK — –		SWITCHED GROUND FROM TOUCH PANEL LEFT FRONT CONTROL
			SWITCHED GROUND FROM TOUCH PANEL RIGHT REAR CONTROL
			SWITCHED GROUND FROM TOUCH PANEL FOR TRAVEL
			GROUND FOR TOUCH PANEL
			SWITCHED GROUND FROM TOUCH PANEL FOR PRESS SW OVERIDE
6 — —	BLACK — –		SWITCHED GROUND FROM TOUCH PANEL FOR DUMP
7 — —	BLACK — -	9000	SWITCHED GROUND FROM PARK BRAKE SWITCH
8 — —			NO CONNECTION
			SWITCHED GROUND FROM TOUCH PANEL RIGHT FRONT CONTROL
10 — —	BLACK	4400	SWITCHED GROUND FROM TOUCH PANEL LEFT REAR CONTROL
11 — —	BLACK — –	8600	SWITCHED GROUND FROM TOUCH PANEL PUMP RELAY CONTROL
12 — —	BLACK		+12V ACC. POWER FROM TOUCH PANEL
CN2 —			12 PIN BROWN CONNECTOR
-			NO CONNECTION
2 — —	- WHITE $ -$		GROUND FOR LEFT FRONT SOLENOID VALVE
			GROUND FOR RIGHT FRONT SOLENOID VALVE
			GROUND FOR RIGHT REAR SOLENOID VALVE
			GROUND FOR LEFT REAR SOLENOID VALVE
			SWITCHED GROUND FROM MANIFOLD PRESSURE SWITCH
			GROUND FROM PARK BRAKE SWITCH TO PUMP RELAY
			SWITCHED +12 FOR LEFT REAR SOLENOID VALVE
			SWITCHED +12 FOR RIGHT FRONT SOLENOID VALVE
			SWITCHED +12 FOR LEFT FRONT SOLENOID VALVE
			SWITCHED +12 FOR RIGHT REAR SOLENOID VALVE
			SWITCHED +12 FOR PUMP RELAY
			8 PIN GRAY CONNECTOR - SENSING UNIT
			REAR - SWITCHED GROUND
	-		RIGHT SIDE - SWITCHED GROUND
-	-		FRONT - SWITCHED GROUND
			LEFT SIDE - SWITCHED GROUND
			NO CONNECTION
8 — —	BLACK	- — - 6122 —	ACCESSORY

ELECTRICAL CONNECTION DIAGRAM 325 SERIES LEVELING SYSTEM CONTROL BOX CONNECTION INFORMATION PAGE 2 OF 2



PIN #	WIRE COLOR	WIRE NUMBER	WIRE DESCRIPTION AND FUNCTION
1 — — — 2 — — — 3 — — — 4 — — — BLACK C	— RED — — — — — — RED — — — — — — WHITE — — — — — WHITE — — — —	- 6100 - 6100 - 6230 - 6230	4 PIN GRAY CONNECTOR +12V BATTERY POWER FROM PUMP RELAY +12V BATTERY POWER FROM PUMP RELAY GROUND FROM HWH GROUND STUD GROUND FROM HWH GROUND STUD 12 PIN BLACK CONNECTOR NO CONNECTION
7 — — - 7 — — -	— BLACK — — — - — BLACK — — — -	- 9310 - 9311	GROUND FOR AIR DUMP VALVES SWITCHED +12 FOR DUMP SWITCHED +12 FOR TRAVEL NO CONNECTION

ELECTRICAL CONNECTION DIAGRAM LED - FUSE LOCATION AND DESCRIPTION 305/325 CONTROL BOX



LED	RELAY DESCRIPTION	FUSE
1-YELLOW 2-RED	LEFT REAR LEFT REAR	F1-15 AMP
3-YELLOW 4-RED	RIGHT FRONT RIGHT FRONT	F2-15 AMP
5-YELLOW	LEFT FRONT	F3-15 AMP
6-RED 7-YELLOW	LEFT FRONT RIGHT REAR	F4-15 AMP
8-RED 9-YELLOW	RIGHT REAR PUMP	F5-5 AMP
10-RED 11-YELLOW	PUMP DUMP	F6-5 AMP
12-RED 13-YELLOW	DUMP TRAVEL	F7-5 AMP
14-RED	TRAVEL PARK BRAKE	F12-3 AMP

NOTE: DUMP AND TRAVEL FUNCTIONS MAY NOT BE PRESENT.

CN4 - SENSING UNIT CONNECTIONS OR CO PIN1 - RED - (+12 ACC) FOR SENSING UNIT PIN2 - RED - GROUND FOR REAR YELLOW LEVEL LIGHT PIN3 - GREEN - GROUND FOR RIGHT SIDE YELLOW LEVEL LIGHT PIN4 - BLACK - GROUND FOR FRONT YELLOW LEVEL LIGHT PIN5 - YELLOW - GROUND FOR LEFT SIDE YELLOW LEVEL LIGHT PIN6 - WHITE - GROUND FOR SENSING UNIT

NOTE: FOR DETAILED INPUT / OUTPUT INFORMATION ABOUT PIN CONNECTIONS SEE ELECTRICAL CONNECTION DIAGRAM - CONTROL BOX CONNECTION INFORMATION.

NOTE: A LIT YELLOW LED INDICATES THERE IS A GROUND SIGNAL TO TURN THE CORRESPONDING RELAY ON.

A LIT RED LED INDICATES THERE IS VOLTAGE ON IT'S CORRESPONDING OUTPUT PIN.

IF A YELLOW LED IS LIT AND THE CORRESPONDING RED LED IS OFF, EITHER IT'S FUSE IS BLOWN OR THE RELAY IS BAD.

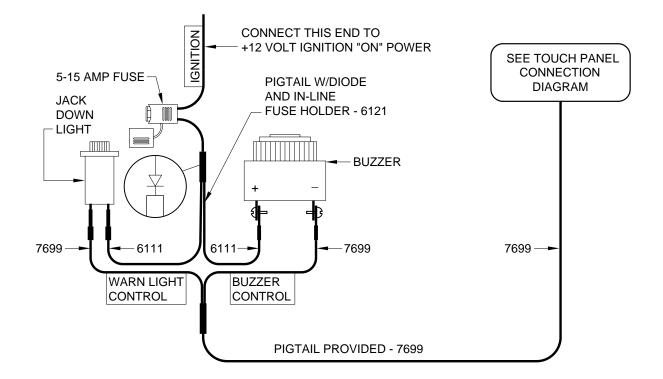
IF THE YELLOW LED'S ARE WORKING BUT NO RED LED IS COMING ON THERE MAY BE PROBLEM WITH INPUT VOLTAGE IN THE 4-PIN CONNECTOR.

IF A YELLOW LED IS NOT LIT, THERE IS A PROBLEM WITH THE CONTROL BOX, TOUCH PANEL OR CONNECTION CABLE

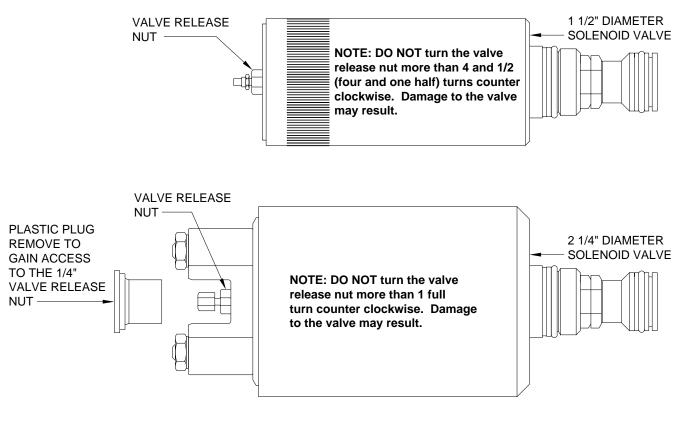
MASTER LIGHT/BUZZER CONNECTION DIAGRAM MANUAL LEVELING SYSTEMS 305/310/325 SERIES LEVELING SYSTEM

A MASTER WARNING INDICATOR SHOULD ALWAYS BE USED. WHEN THE LEVELING SYSTEM HAS STRAIGHT-ACTING JACKS A WARNING BUZZER MUST BE USED.

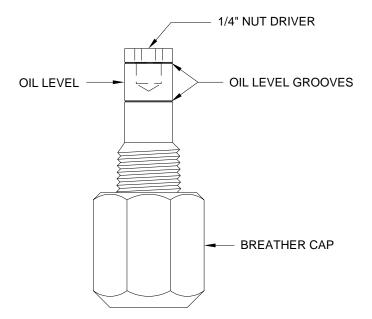
NOTE: BY SUPPLYING IGNITION POWER TO THE WARNING BUZZER AND LIGHT, AND "ACC" POWER TO THE CONTROL BOX, THE SYSTEM MAY BE OPERATED IN ACCESSORY WITHOUT THE BUZZER SOUNDING. THE NEGATIVE SIGNAL FOR THE WARNING INDICATORS MUST ALWAYS COME FROM THE TOUCH PANEL.



BREATHER CAP - DIPSTICK - 1/4" NUT DRIVER



NOTE: THE BREATHER CAP IS LOCATED ON THE TOP SIDE OF THE POWER UNIT RESERVOIR.



IMPORTANT: PRIOR TO REMOVING THE BREATHER CAP, EITHER TO CHECK THE OIL LEVEL OR TO USE THE 1/4" NUT DRIVER, CLEAN ANY DEBRIS FROM THE TOP OF THE RESERVOIR. BEFORE RETURNING THE BREATHER CAP TO THE RESERVOIR, REMOVE ANY PAINT CHIPS OR OTHER DEBRIS FROM THE DIPSTICK INCLUDING DEBRIS INSIDE THE 1/4" NUT DRIVER.

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