FEATUREURING:
Four Lever Control
Hydraulic Leveling
Kick-Down Jacks
Suspension Air Dump

INTEGRATED CONTROLS

HWH CORPORATION
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OPERATOR’S MANUAL

**CAUTION !**

READ THE ENTIRE OPERATOR’S 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 LEVELING SYSTEM AND ROOM EXTENSION ARE BEING OPERATED.

THE JACKS MAY ABRUPTLY SWING UP WHEN THE FOOT CLEAR THE GROUND OR WHEN JACK REACHES FULL EXTENSION.

NEVER PLACE HANDS OR OTHER PARTS OF THE BODY NEAR HYDRAULIC LEAKS. OIL MAY PENETRATE SKIN CAUSING INJURY OR DEATH.

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.

IF THIS VEHICLE IS EQUIPPED WITH KICK-DOWN STYLE JACKS, DO NOT OVER EXTEND THE REAR JACKS. IF THE WEIGHT OF THE VEHICLE IS REMOVED FROM ONE OR BOTH REAR WHEELS, THE VEHICLE MAY ROLL FORWARD OR BACKWARD OFF THE JACKS.

NOTE: KEEP THE CONTROL VALVE LEVERS IN THE STORE POSITION WHEN JACKS ARE NOT IN USE.

IMPORTANT: IF VEHICLE 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

Controlling Identification

CONTROL CIRCUIT FUSE (5 Amp)

ON/MASTER WARNING LIGHT

"LEVELING" LIGHTS (4 - Yellow)

JACK CONTROL LEVER (4)

CONTROL FUNCTIONS

"DUMP/LEVEL/OFF" ROCKER SWITCH: This switch controls power to the "LEVELING" and "WARNING" lights, and the power unit. The "DUMP" position on the switch is a momentary position. Air will exhaust from the vehicle suspension while the switch is held in the "DUMP" position. The switch does not control the power to the master "JACKS DOWN" warning light or the master WARNING light on the panel.

CONTROL CIRCUIT FUSE: The fuse protects the panel.

JACK CONTROL LEVER: These levers control individual jacks. Push a lever toward "EXTEND" to extend a jack or "STORE" to retract a jack.

INDICATOR LIGHTS

ON/MASTER WARNING LIGHT: The light will be on if the ignition is in the "ON" or "ACC" position and the "LEVEL/OFF" rocker switch is in the "LEVEL" position or if one of the jacks are extended 2 inches or more and the ignition switch is in the "ON" or "ACC" position.

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

"LEVELING" LIGHTS: A lit yellow "LEVELING" light indicates the corresponding corner is low. Extend the appropriate jack(s) to put out the yellow light(s). One or two yellow lights can be on at the same time. The vehicle is level when all yellow lights are out.
OPERATION PROCEDURES

SITE SELECTION

Park with the front of the vehicle facing downhill if possible. Care must be taken not to raise the rear of the vehicle too high or the vehicle may roll forward or backward off the jacks. If parking on soft ground or asphalt paving, wood blocks or pads should be placed under the jacks.

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 MUST be blocked securely. Do **NOT** operate any room extension until the leveling and stabilizing procedure is complete. Do **NOT** retract the leveling system until all room extensions are retracted. **NEVER** operate the leveling system when any room extensions are extended.

Refer to the vehicle owner’s manual for proper operation of room extensions.

**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 park position apply the park brake. Block tires securely.

2. Turn ignition switch to "ON" or "ACCESSORY". The vehicle engine must be off. Running the engine during or after leveling may inflate the air suspension, lifting the vehicle out of level.

3. Push the rocker switch in jack control plate to "LEVEL".

4. Swing each jack to the vertical position by pushing each control lever to "EXTEND". The respective red "WARNING" light will light as soon as the jack swings vertical. Check that all jacks have swung to the vertical position.

**IMPORTANT:** Overheating and excessive current draw will result if control levers are partially operated toward "EXTEND" for an extended period of time.

5. Push and hold the rocker switch to the "DUMP" position until the air is completely exhausted from the vehicle suspension system.

6. A lit yellow "LEVEL" light indicates that corner of the vehicle is low. Extend jacks as needed to put out all the yellow lights.

LEVELING TIPS: Two jacks maybe operated at the same time, if desired. Operation of both side jacks at the same time often provides a smoother lift while reducing stress on the vehicle and jacks. If for example, a right front and a right rear yellow "LEVEL" light is on, operate the right rear jack or the right front and rear jacks together. Right to left leveling is usually best accomplished using a rear jack or a front and rear jack together. If a substantial amount of leveling is required, it is often best to operate two jacks at the same time, leveling side to side first.

If the ground is too uneven the jacks may not have enough stroke to level the vehicle. The vehicle may have to be moved. Remember that if the rear of the vehicle is lifted too high the vehicle may roll forward or backward off the jacks.

7. After the vehicle is level, the jacks not used for leveling may be extended until they touch the ground. This provides additional stability against wind and activity in the vehicle.

8. Turn off the rocker switch on the leveling system panel.

9. Turn off the ignition switch.
OPERATION PROCEDURES

RETRACTING PROCEDURE

CAUTION: MAKE SURE PEOPLE AND EQUIPMENT ARE CLEAR OF THE VEHICLE.

1. Start the vehicle engine and let air pressure build up in the suspension.

2. Move the control levers to the “STORE” position. Retracting the two rear jacks followed by the two front jacks will provide a smooth retraction. As soon as a foot clears the ground, the jack will swing horizontal and continue to retract.

CAUTION: THE CONTROL LEVERS SHOULD BE KEPT IN THE “STORE” POSITION WHILE TRAVELING TO KEEP THE JACKS IN THE STORE/TRAVEL POSITION.

3. Visually check that all jacks are in the STORE/TRAVEL position. With the ignition switch in the “ON” or “ACCESSORY” position, and the system turned on, the red WARNING lights and the master “JACKS DOWN” light will be out. Check that the vehicle is at the proper ride height.

CAUTION: DO NOT RELY SOLELY UPON THE WARNING LIGHTS. IT IS THE OPERATOR’S RESPONSIBILITY TO CHECK THAT ALL JACKS ARE IN THE STORE/TRAVEL POSITION BEFORE MOVING THE VEHICLE.

4. Push the rocker switch on the jack control plate to “OFF”. Turn ignition off or proceed to travel.
It is important that all of the jacks are fully retracted before checking the hydraulic oil level. To check the oil supply, remove the breather cap from the top of the hydraulic oil reservoir. The oil level should be approximately one inch below the top of the reservoir when adequately filled.

On the 9,000 lb. jacks and the 16,000 lb. jacks there are roller assemblies that need to rotate freely. (See above FIGURE) These rollers should be cleaned with a penetrating fluid, such as WD-40, and lubricated with a light oil as part of your regular maintenance schedule.

In general, to insure the smooth operation of the leveling system, it is a good idea to occasionally check the individual leveling jacks to prevent problems. This is especially true under the unusual conditions stated in the following:

If driving conditions are unusually muddy, the jacks may become caked or clogged with mud. This condition may hamper the proper operation of the leveling system. This problem may be prevented or remedied by cleaning off each leveling jack if they become excessively muddy.

In wet or icy weather leveling jacks may become encrusted with ice. This may cause the leveling system to function improperly. To eliminate this problem, periodically check the leveling jacks and break loose any ice which may be causing improper operation.

Do not move the vehicle while the leveling jacks are still in contact with the ground. However, if this should accidentally happen, the leveling system was designed to protect itself from damage in most cases. Place the system in the STORE mode and then visually check to see if the leveling jacks have returned to the STORE/TRAVEL POSITION.

NOTE: All major components of the system can be replaced with rebuilt parts or can be sent to HWH CORPORATION to be rebuilt, when the system is out of warranty.

The batteries should be in good condition and fully charged. Weak batteries can cause erratic operation. Battery cable terminals and battery posts and connections should be kept clean. All electrical connections, especially ground connections, should be clean, tight, free from corrosion and protected from weathering.

FLUID: HWH Specialty Hydraulic Oil is recommended. In an emergency Dexron automatic transmission fluid can be used.

NOTE: Dexron automatic transmission fluid contains red dye and can cause staining should a leak occur. DO NOT USE brake fluid or hydraulic jack fluid. Use of these can damage seals.

UNUSUAL CONDITIONS

ELECTRICAL SYSTEM
MAINTENANCE

SYSTEM ADJUSTMENT

JACK ADJUSTMENT

There are two basic adjustments which are made at the time of installation. However, when adjustment of a leveling unit is needed, the following procedures are recommended.

1. **6,000 lb. JACKS:** Always make vertical adjustment first. If the vertical adjustment is changed at anytime, be sure to check the horizontal adjustment. Vertical position is changed by adjusting the lock nuts on the actuator cable. If the jack stopped short of vertical, tighten the lock nuts. If the jack goes past vertical, back the lock nuts off. Be sure to adjust each nut the same number of turns.

**NOTE:** The two front jacks should be adjusted to the same horizontal position.

Horizontal stop is adjusted by turning the set screws located just inside the cable locknuts. The jack can be adjusted down to provide clearance for objects which may interfere with the operation of the jacks. The horizontal stop must be adjusted to provide clearance between the hat bracket and mounting bolts; and the actuator and hose fittings, when the jack is in the STORE POSITION. The jack must be able to fully extend in the horizontal position without interfering with suspension components, tanks, etc.

2. **9,000 lb. JACKS:** Each jack should be checked to be sure that it is vertical when it swings down. To do this, retract all jacks, then extend each jack until it is close to, but not touching the ground. If the jack stopped short of being vertical, it can be adjusted by loosening the lower adjusting nut and tightening the upper nut.

The horizontal stop can be adjusted up or down in the slot to provide clearance for objects which may interfere with operation of the jack. The stop must be adjusted so that the jack can be fully extended in the horizontal position without interfering with suspension components, tanks, etc.

3. **16,000 lb. JACKS:** If the jack stopped short of being vertical loosen the set screw and turn the adjusting cap clockwise. If the jack went beyond vertical, loosen the set screw and turn the adjusting cap counterclockwise. After each adjustment, the weight of the vehicle must be applied to the jack to make the adjustment effective. DO NOT adjust cap more than one turn without cycling the jack.

The horizontal stop on the heavy-duty jack is adjusted by adding washers under the urethane stop.

LEVEL SENSING UNIT ADJUSTMENT

Level the vehicle by placing a circular bubble level in the center of the freezer floor or location within the vehicle that is to be level. With the vehicle level, adjust the sensing unit until all yellow lights are off. This is done by drawing up the corresponding screw if the sensing unit is mounted below the surface as shown or backing out the corresponding screw if the sensing unit is mounted above the surface. Bump the sensing unit to see that it is settled tight against all three screw heads and still indicates that the unit is level.
HYDRAULIC CONTROL VALVE ADJUSTMENT

Two parts of the control valve are possible to adjust. The proper adjustments for these parts are made at the factory, so readjustments will rarely be necessary.

NOTE: These valve adjustments should only be made on a non-warranty basis. If the valve needs to be repaired or adjusted under warranty, the complete valve unit should be replaced, but not the light panel.

The following procedures are recommended to adjust them if the need arises.

1. ADJUSTMENT OF THE DETENT PLATE: Adjustment of the detent plate is necessary if the detent plate fails to hold the control levers in the retract position, or if the plunger is not depressed sufficiently by the valve handle in the retract position.

To adjust the detent plate, loosen the nuts which hold the plastic valve box and the detent plate to the valve assembly. The proper adjustment can be made by moving the detent plate up or down to a point where the valve handle is resting solidly on the detent in the retract position, yet holding the plunger down to its full extent or no less than 1/16" of this extension.

2. ADJUSTING THE MICRO SWITCH: The micro switch will need adjusting if the activating rod does not fall directly upon the nipple of the micro switch.

The adjustment must be made after disassembling a portion of the control valve. First, remove the plastic valve box and the detent plate. Next, remove the snap rings on the pivot rod, and carefully slide off the valve handles spacers and spring, notice where each part must go during reassembly.

The micro switch is the adjusted by loosening the small hex nuts which hold the micro switch to the pivot plate, and then making the proper adjustment.

NOTE: Sometimes the activating rod can be bent to position the micro switch correctly.

Finally, reassemble the control valve, remembering to properly adjust the detent plate as it is replaced.
TROUBLE SHOOTING

The following is a list of troubles, and possible solutions which might occur to the leveling system.

NOTE: Only qualified technicians should install or repair leveling systems on vehicles. A knowledge of hydraulics, welding, the vehicle’s suspension and electrical system, as well as an understanding of the leveling system’s hydraulics and electronics is required.

1. JACK RETRACTS AFTER COACH IS LEVEL.
   A. Hose or jack has external leak.
   B. Fluid is leaking back to reservoir through control valve.

2. LEVELING JACKS WILL NOT RETRACT COMPLETELY.
   A. Actuator rod bent or scored (rod will not move freely).
   B. Jack clogged with mud or ice.
   C. Main rod bent or scored.
   D. Valve plunger not completely depressed by valve handle.
   E. Springs weak or broken.
   F. Hydraulic line pinched.

3. UNIT IS EXTENDED BUT NOT VERTICAL.
   A. Move the control lever to the full retract position and wait two minutes. Be sure the jack is fully retracted, then try again.
   B. Roller assembly frozen or missing.
   C. Actuator rod bent.
   D. Actuator not functioning properly.

4. IGNITION SWITCH ON, BUT NO POWER TO PUMP AND/OR LIGHT.
   A. Bad micro switch.
   B. Pump relay not functioning.
   C. 12 volts from main power source not present.
   D. Bad rocker switch.
   E. Faulty wire or electrical connection.
   F. Pump not grounded.
   G. Blown fuse.

5. LEVELING LIGHTS (YELLOW) NOT FUNCTIONING PROPERLY.
   A. Yellow lights will not go out when vehicle is level: adjust sensing unit.
   B. More than two yellow lights on: replace sensing unit.
   C. Check PC board.

6. WARNING LIGHTS (RED) NOT FUNCTIONING PROPERLY.
   A. Light will not come on: check for broken wire at warning switch on the jack.
   B. Lights will not go out: bad warning switch or wires are shorted to ground.
   C. Check PC board.

7. HYDRAULIC PUMP ACTIVATES, BUT THE JACKS WILL NOT EXTEND.
   A. Micro switch out of adjustment.
   B. Oil supply low in reservoir.
   C. Pump is not developing pressure.
   D. Broken hydraulic line.

8. HYDRAULIC PUMP ACTIVATES WITHOUT USE OF CONTROL VALVE HANDLES.
   A. Bad PC board.
   B. Air dump solenoid valve bad.

9. AIR WILL NOT DUMP FROM SUSPENSION.
   A. Bad PC board.
   B. Air dump solenoid stuck open.

10. SUSPENSION WILL NOT INFLATE.
    A. Bad PC board.
    B. Air dump solenoid stuck open.
AIR DUMP SOLENOID VALVES ARE ACTIVATED (OPENED) BY A +12 SIGNAL.

4 AIR DUMP SOLENOID VALVES AND 4 HEIGHT CONTROL VALVES ARE SHOWN.

THE AIR DUMP VALVE IS TO TEE INTO THE LINE BETWEEN THE AIR BAG AND THE HEIGHT CONTROL VALVE. THREE HEIGHT CONTROL VALVES ARE THE MOST COMMON ON AIR SUSPENSION SYSTEMS. 2, 3 OR 4 CONTROL VALVES MAY BE USED.

USE ONLY DOT APPROVED FITTINGS AND TUBING.
ELECTRICAL CONNECTION DIAGRAM
110 SERIES LEVELING SYSTEM
FOUR LEVER INTEGRATED CONTROL
WITH SUSPENSION AIR DUMP

MASTER WARNING LIGHT/BUZZER CONNECTION DIAGRAM
FROM +12 ACC FUSE 15 AMP MAX - (RED) 6120

SENSING UNIT
TO WARNING SWITCH

NOTE: SEE SUSPENSION AIR DUMP DIAGRAM FOR ADDITIONAL EXPLANATION OF AIR DUMP VALVE CONNECTIONS.

OTHER AIR DUMP VALVE ARRANGEMENTS ARE POSSIBLE

NOTE: THE (4) DIGIT WIRE NUMBER SUPERSEDES ANY AND ALL WIRE COLORS

DO NOT REVERSE WIRE COLORS TO A & B ON PACKARD CONNECTORS!
ELECTRICAL CONNECTION DIAGRAM
110 SERIES LEVELING SYSTEM
FOUR LEVER INTEGRATED CONTROLS
WITH SUSPENSION AIR DUMP

PUMP RELAY CONNECTION DIAGRAM
PUMP MUST BE MOUNTED SOLIDLY TO FRAME. SOME PUMPS HAVE A GROUND CABLE THAT IS TO BE ATTACHED TO THE GROUND STUD.

NOTE: IF THE PUMP BRACKET IS WELDED TO THE FRAME, USE THE GROUND STUD TO ATTACH THE PUMP TO THE BRACKET. IF THE PUMP BRACKET IS BOLTED TO THE FRAME, USE THE GROUND STUD TO ATTACH THE BRACKET TO THE FRAME.

* FUSE MAY BE REQUIRED - CHECK APPLICABLE CODE

PANEL CONNECTION DIAGRAM
NOTE: THE (4) DIGIT WIRE NUMBER SUPERSEDES ANY AND ALL WIRE COLORS

11-PIN MTA HARNESS
AIR DUMP - (YEL) 9301
AIR DUMP - (YEL) 9300
NOT USED
RR - (BLACK) 3000
RF - (GRAY) 2000
LF - (ORANGE) 1000
LR - (GREEN) 4000
+WARN - (PURPLE) 6121
-WARN - (BROWN) 7699
PUMP - (BLUE) 6820
GROUND - (WHITE) 6230

5-PIN MTA SENSING UNIT
RR - RED
RF - GREEN
LF - BLACK
LR - YELLOW
COM. - WHITE

2-PIN MTA VALVE MICRO SWITCH

FROM HARNESS -
(BLUE) 6820

FROM RELAY TO GROUND STUD -
(WHITE) 6231

GROUND STUD FROM HARNESS FUSED 10A. -
(WHITE) 6230

NOTE: THE (4) DIGIT WIRE NUMBER SUPERSEDES ANY AND ALL WIRE COLORS

PUMP RELAY CONNECTION DIAGRAM
PUMP MUST BE MOUNTED SOLIDLY TO FRAME. SOME PUMPS HAVE A GROUND CABLE THAT IS TO BE ATTACHED TO THE GROUND STUD.

NOTE: IF THE PUMP BRACKET IS WELDED TO THE FRAME, USE THE GROUND STUD TO ATTACH THE PUMP TO THE BRACKET. IF THE PUMP BRACKET IS BOLTED TO THE FRAME, USE THE GROUND STUD TO ATTACH THE BRACKET TO THE FRAME.

* FUSE MAY BE REQUIRED - CHECK APPLICABLE CODE

PANEL CONNECTION DIAGRAM
NOTE: THE (4) DIGIT WIRE NUMBER SUPERSEDES ANY AND ALL WIRE COLORS

11-PIN MTA HARNESS
AIR DUMP - (YEL) 9301
AIR DUMP - (YEL) 9300
NOT USED
RR - (BLACK) 3000
RF - (GRAY) 2000
LF - (ORANGE) 1000
LR - (GREEN) 4000
+WARN - (PURPLE) 6121
-WARN - (BROWN) 7699
PUMP - (BLUE) 6820
GROUND - (WHITE) 6230

5-PIN MTA SENSING UNIT
RR - RED
RF - GREEN
LF - BLACK
LR - YELLOW
COM. - WHITE

2-PIN MTA VALVE MICRO SWITCH

FROM HARNESS -
(BLUE) 6820

FROM RELAY TO GROUND STUD -
(WHITE) 6231

GROUND STUD FROM HARNESS FUSED 10A. -
(WHITE) 6230

NOTE: THE (4) DIGIT WIRE NUMBER SUPERSEDES ANY AND ALL WIRE COLORS
LIGHT PANEL (INTEGRATED OR REMOTE 4-LEVER SYSTEM)

KICK-DOWN JACKS WITH AIR DUMP FEATURE

* FUSE MAY BE REQUIRED
CHECK APPLICABLE CODE.
A MASTER WARNING INDICATOR SHOULD ALWAYS BE USED. WHEN THE LEVELING SYSTEM HAS STRAIGHT-ACTING JACKS A WARNING BUZZER MUST BE USED.

WHEN ONLY A RED MASTER WARNING LIGHT IS USED THE 12+ POWER FOR THE LIGHT COMES THROUGH THE CONTROL PANEL. (SEE FIGURE 1 BELOW.) WHEN BOTH A RED LIGHT AND WARNING BUZZER ARE USED THE +12 POWER FOR BOTH INDICATORS IS SUPPLIED BY THE IGNITION SWITCH. THE POWER MUST COME FROM THE "ON" SIDE OF THE IGNITION SWITCH, NOT THE "ACC" SIDE. (SEE FIGURE 2 BELOW)

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

CAUTION: THE PURPLE WIRE IN THE MASTER WARNING LIGHT HARNESS IS HOT WHENEVER THE IGNITION IS "ON" OR IN "ACC". THE PURPLE WIRE MUST BE REMOVED FROM THE HARNESS WHEN USING DIRECT IGNITION VOLTAGE FOR THE MASTER WARNING INDICATORS.

NOTE: THE (4) DIGIT WIRE NUMBER SUPERSEDES ANY AND ALL WIRE COLORS.

NOTE: DO NOT USE (PURPLE) WIRE - 6121 REMOVE (PURPLE) WIRE - 6121 FROM HARNESS.

NOTE: SPLICE (BROWN) WIRE - 7699 FROM HWH LIGHT PLATE TO (BROWN) - 7699 PIGTAIL WITH BUTT CONNECTOR.