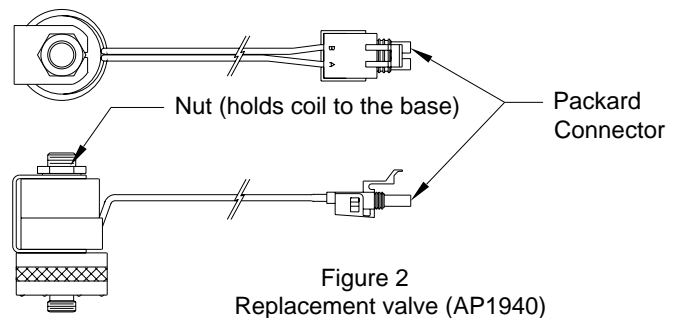
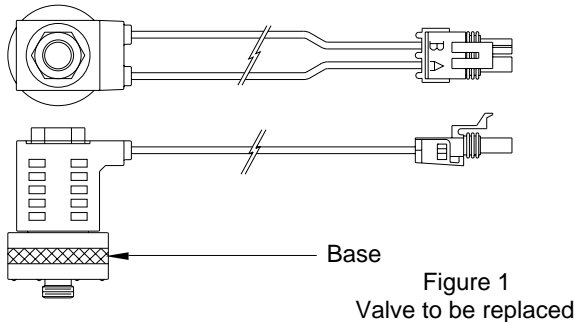


AIR VALVE REPLACEMENT

2005 NEWMAR ESSEX COACHES

(PAGE 1 OF 3)

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



DETERMINE IF VALVES NEED TO BE REPLACED:

The air valves needing to be changed have a rectangular coil, approximately 1-1/8" x 1-3/8" (see figure 1). The replacement valves have a round coil, approximately 1-3/8" diameter (see figure 2). If the valve has already been replaced with the correct valves, please note it on the warranty paperwork with the coach number, or contact HWH Corporation.

VALVE REPLACEMENT:

CAUTION: ALL AIR MUST BE DUMPED FROM THE SUSPENSION, AND AUXILIARY TANKS PRIOR TO REMOVING THE SOLENOID VALVES. FAILURE TO DO SO MAY RESULT IN A SUDDEN DROP IN COACH HEIGHT AND OR BLASTS OF AIR, CAUSING INJURY OR DEATH.

IMPORTANT: REFER TO HWH OPERATOR'S MANUAL (ML32985/MP75.0302) FOR AIR LINE CONNECTION DIAGRAM AND OPERATING INFORMATION.

IMPORTANT: REFER TO VEHICLE MANUFACTURER FOR SAFE POSITIONING OF JACK STANDS.

1. If the coach is on a lift, dump the air. If the coach is on the ground, use jack stands to support the chassis while the air is dumped, making it is safe to work under the coach. Place the jack stands so no damage occurs to the coach.
2. Locate the air dump valve on the air tank, refer to owners manual for specific location; dump the air tanks.
3. The front air manifold is just ahead of the front axle, on the driver's side of the coach. Remove wire ties as needed to access the packard connectors connecting the air valves to the harness.
4. From the travel solenoids, trace the wire to the packard connection. Disconnect the valve at the packard connection. The nut that holds the coil tight to the base of the air valve can be loosened to allow the coil to rotate, this will aid in removal and installation. Unscrew the valve from the manifold by gripping on the base of the valve with a pair of channel lock pliers or similar tool.



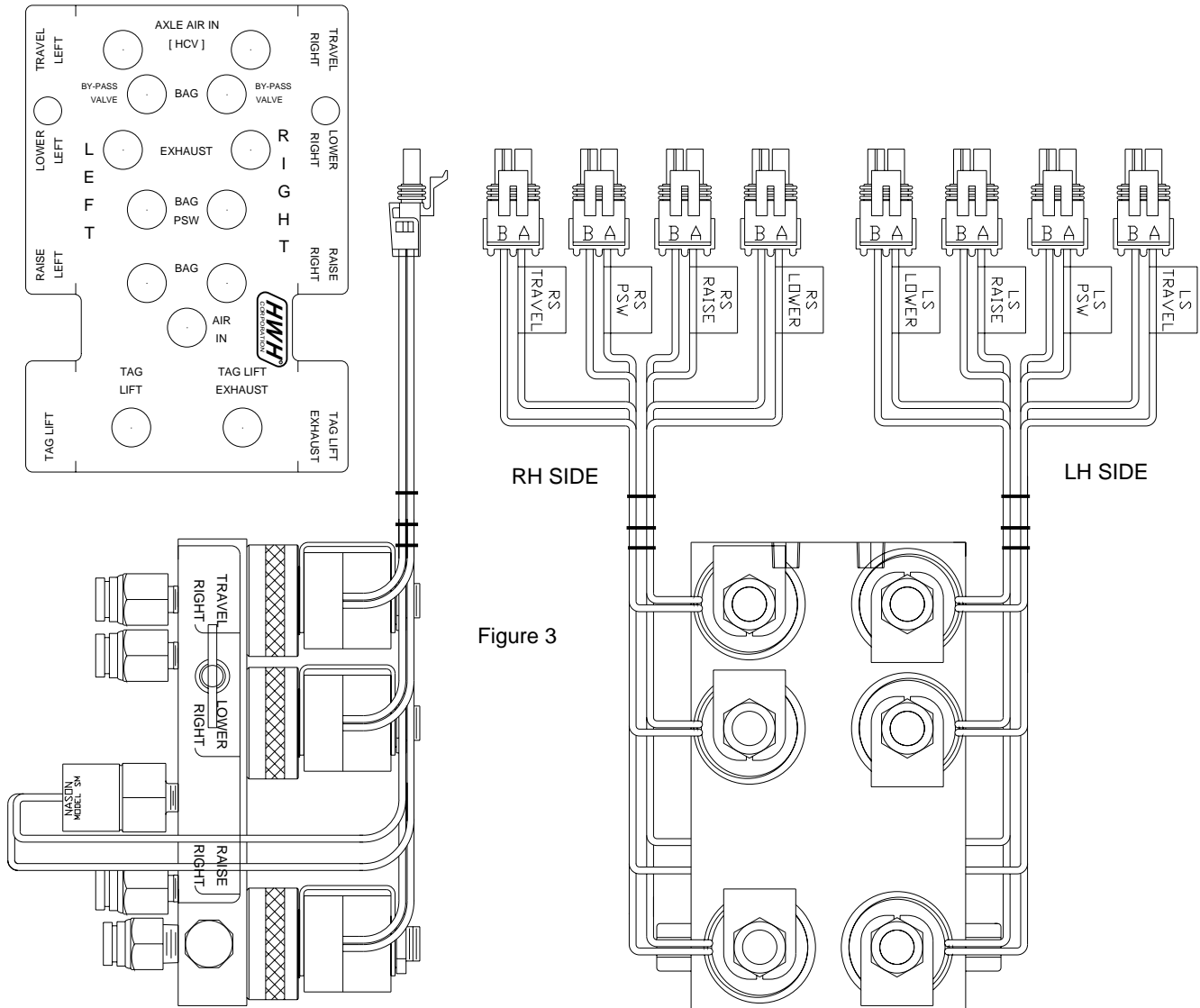
AIR VALVE SOLENOID REPLACEMENT

2005 NEWMAR ESSEX COACHES

(PAGE 2 OF 3)

5. Lightly grease the o-ring on the new valve, install finger tight, tighten an additional 1/4 turn. Do not over tighten. This may cause the threaded stem to break off inside the manifold. Plug the packard connector on the new valve into the existing harness. Be sure to tighten the nut on top of the coil after the new valve is installed.

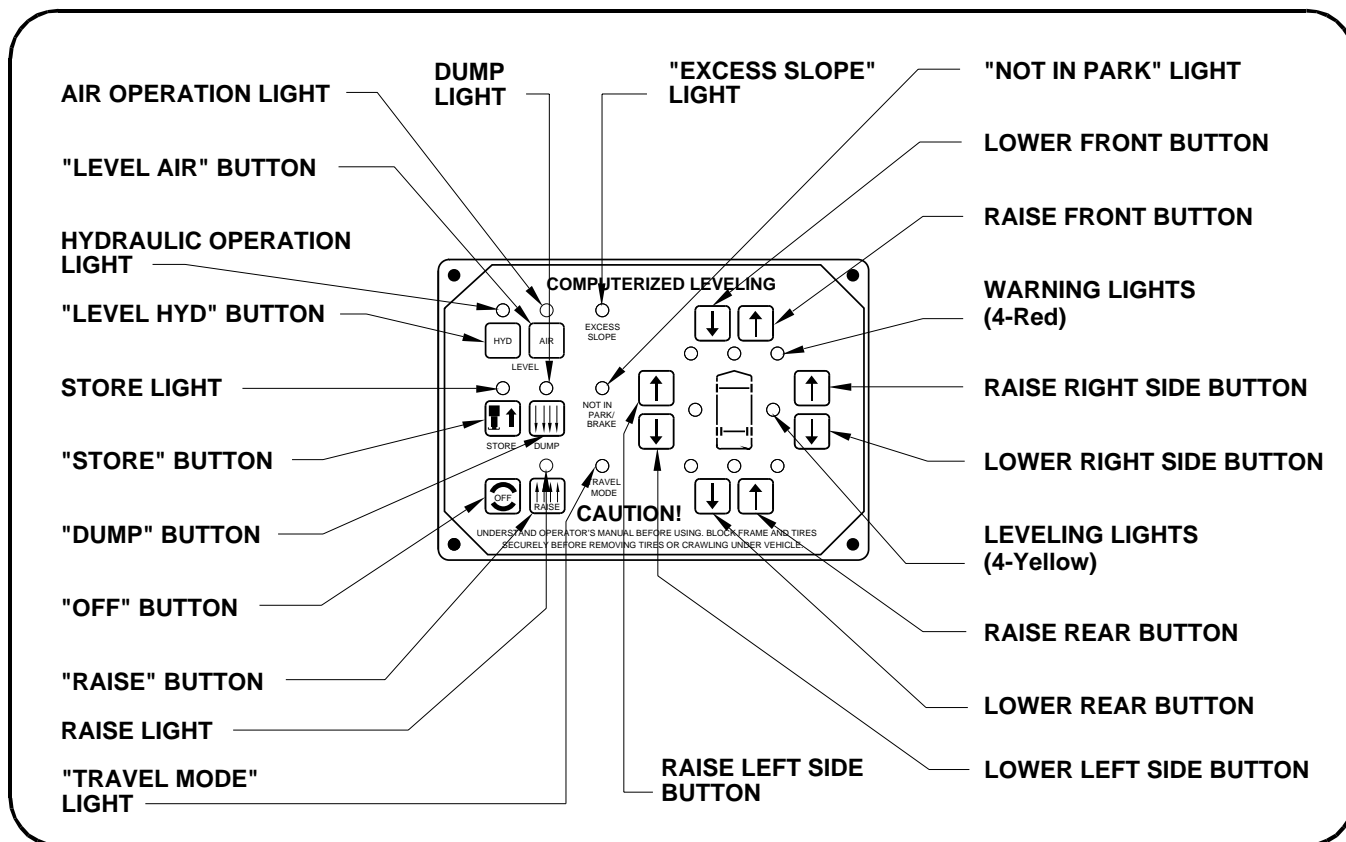
6. Repeat step 3 for the rest of the valves in the manifold. When reconnecting the packard connectors, be sure that the valves are connected correctly, see (figure 3) for valve location and function. Secure the wires with wire ties.



7. The rear air manifold is behind the tag axle on the passenger side of the coach. Remove wire ties as needed to access the packard connectors connecting the air valves to the harness. The valves should all be loosened first, because the manifold will have to be removed from the chassis. Take the mounting bolts out of the top of the manifold, and let the manifold hang. The air lines out of the manifold do not need to be removed.

8. Remove a solenoid valve. Lightly grease the o-ring on the new valve, install finger tight, tighten an additional 1/4 turn. Do not over tighten. This may cause the threaded stem to break off inside the manifold. Plug the packard connector on the new valve into the existing harness. Be sure to tighten the nut on top of the coil after the new valve is installed. (Repeat step 6 for the remaining valves needing to be replaced).

AIR VALVE REPLACEMENT 2005 NEWMAR ESSEX COACHES (PAGE 3 OF 3)



CONTROL FUNCTIONS

OPERATIONAL CHECK:

CAUTION: KEEP ALL PEOPLE CLEAR OF VEHICLE WHILE LEVELING SYSTEM IS BEING OPERATED

IMPORTANT: Refer to operators manual ML32985 for full operating instructions and cautions.

7. Start the coach and let the air build up to capacity. Check to be sure the coach returns to the correct ride height.

8. Using the manual operation buttons on the right portion of the control panel, push the down arrow for the right side, check that the right front and right rear air bags deflate. Next push the down arrow for the left side, check that the left front and left rear air bags deflate.

9. Using the right and left arrows on the control panel use the up arrows to check that both sides inflate at the proper time. If needed, check the wire connections and correct the wiring. You may also contact HWH at the following:

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