NOTE: This installation kit is for use on all 1996 and 1997 models except Taos, Laredo, and Sedona.

This package contains:

1 - 4747-839 thermostat bracket
1 - 4741B947 Atwood vent assembly
2 - 4741A925 wood block (Key West, Yukon, Laramie)
1 - 4737B925 plastic base (tan)
1 - 4750-642 heater harness
1 - 4750-643 thermostat harness
1 - 4753-557 17 1/2" gas line assembly
1 - 4753-626 22 3/8" gas line assembly
1 - 4751-697 17 3/4" gas line assembly
1 - 1215-177 3/8" flared tee
1 - 1215-516 3/8" elbow
4 - 1215-241 flare nuts
6 - 1103B0806 3/8" screw
4 - 1103B1032 2" self-tapping screw
13 - 1103E1008 1/2" self-tapping screw
4 - 1201-865 wire clamp
2 - 1201-870 gas line clamp
2 - 1202B026 flat washer
6 - 1203-864 7/16" aluminum rivet
2 - 1203-874 13/16" aluminum rivet
3 - 1216-208 yellow connector
1 - 4739-125 split bushing
1 - 4746-178 gas line hole cover
1 - 4749A617 3 1/2" furnace box (Bayport, Santa Fe, Cheyenne)
1 - 4755-675 7 1/2" furnace shelf (Niagara)
1 - 4755-690 9 1/2" furnace shelf (Sun Valley, Sun Ridge)
2 1/2' 43500000029 1/8" x 1/2" gray putty tape
1 - 4752-846 thermostat
IMPORTANT NOTICE

These instructions are for the use of qualified individuals specially trained and experienced in installation of this type equipment and related system components. Installation and service personnel are required by some states to be licensed. Persons not qualified shall not attempt to install this equipment nor interpret these instructions.

WARNING:

1. Before installing the Atwood furnace, refer to the installation instructions included with the furnace. When installing or replacing a furnace or thermostat, it is imperative that the correct thermostat be used. For easy identification of the thermostat and which furnace it should be used with, Atwood will mark the thermostat box as follows:
   1. Use with D.S.I. furnace only.
   2. Use with pilot ignition furnace only.
   Failure to comply may damage the equipment and may create a hazard.

2. Before beginning this furnace installation, be certain all electrical and gas supplies to the trailer are disconnected. Failure to do so could result in electrical shock or fire hazard.

NOTE: All 1996 and 1997 trailers are pre-wired for furnace power supply and thermostat connections.

INSTALLATION INSTRUCTIONS

1. Remove the small lower galley door and hinges covering the 8 3/8” wide x 11 1/4” high routed furnace opening in the lower galley front or roadside cabinet assembly. Insert four 3/8” Phillips screws into the screw holes exposed from removing the door hinges from the lower galley front.

2. Remove the wall paneling knockout centered directly behind the 8 3/8” x 11 1/4” furnace opening.

   NOTE: Tape up wires found behind paneling knockout to prevent damage.

3. For 1996 Models Only: Find the center of the knockout from side to side.

   For 1996 Key West: Measure 1 7/8” up from the bottom of the knockout.

   For 1996 Shenandoah and Niagara: Measure 3 3/8” up from the bottom of the knockout.

   For 1996 Laramie and Yukon: Measure 4” up from the bottom of the knockout.

   For 1996 Sun Valley: Measure 4 3/8” up from the bottom of the knockout.

   For 1996 Santa Fe, Cheyenne, and Bayport: Measure 4” up from the bottom of the knockout.

Drill a hole from inside the trailer through the exterior body panel at this point.
Cut the 5" x 2 1/2" vent opening into the exterior body panel as shown in figure 1 using the hole drilled in step 3 as the center point.

4. **For 1997 Models Only:** Cut the vent opening in the roadside body panel according to the dimensions in figure 2.

5. For 1996 trailers, a white plastic rivet will be installed in the floor where the hole for the gas line should be drilled. This will be incorporated gradually through the year, therefore, early production trailers will not be pre-marked with the white rivet. If your trailer is not pre-marked with this rivet, refer to figure 3 for proper location of gas line hole. All 1997 models will be pre-marked with the white rivet. Remove the white rivet (if applicable) and drill a 1 1/8" hole in the floor for the gas line.

**WARNING:** Ensure all gas and electrical supplies are off.

6. **Destiny Models Only:** Cut existing gas line below hole drilled for furnace gas line or at nearest point to this hole. Install two flare nuts and flare both sections of gas line. Install flared tee. If necessary, route additional 3/8" gas line to hole drilled for furnace gas line and install 3/8" elbow. Flare gas line and use flare nuts at all connections.

**Grand Tour Models Only:** Remove union from existing gas line below hole drilled for furnace gas line. Install flared tee.

7. Place appropriate gas line assembly through hole in floor and slide gas line hole cover over gas line (from inside trailer) and into the hole drilled in the floor. Attach one end of the gas line assembly to the elbow or flared tee in the gas line beneath the trailer. If necessary, secure gas line to trailer with two gas line clamps and two 1/2" self-tapping screws.

8. **For Key West, Yukon and Laramie:** Install the two wooden support blocks, centered left to right in the lower galley opening, according to the dimensions shown in figure 4. Fasten with four 2" screws provided.

**For Bayport, Santa Fe and Cheyenne:** Install the 3 1/2" furnace box in the lower galley opening, centered left to right, 3" behind the lower galley front. Fasten to floor with two 1/2" self-tapping screws.

**For Niagara:** Install the 7 1/2" furnace support at the midway point of the cabinet centered below the wall paneling knockout. Fasten to floor with two 1/2" self-tapping screws.

**For Westlake, Sea Pine, and Shenandoah:** No wood blocks or supports are necessary. The furnace will rest on the wheel well.

**For Sun Valley and Sun Ridge:** Install the 9 1/2" furnace support at the midway point of the cabinet centered below the wall paneling knockout. Fasten to floor with two 1/2" self-tapping screws.

9. Connect the plugged end of the furnace power supply wires, found in the lower galley compartment, to the heater wire harness supplied in this kit. Pull the non-plugged end of the wire harness out through the galley front opening.
NOTE: Ensure that the proper color coded wires are connected, black to black, orange to orange, and white to white.

10. Slide the furnace into the opening except for approximately 6” to allow for wire connections.

11. Using the yellow wire connectors provided, connect wires found in compartment to furnace as follows:

   1. Orange wire to White wire on furnace marked “thermostat”
   2. White wire (12V DC NEG.) to Black wire on furnace
   3. Black wire (12V DC POS.) to Red wire on furnace

Clamp the furnace power supply wires by the right side of each wood block or by the right side of the furnace support assembly using two plastic wire clamps and two 1/2” self-tapping screws provided. If the furnace is mounted on a wheel well, clamp the furnace power supply wires to the floor of the trailer near the wheel well using two plastic wire clamps and two 1/2” self-tapping screws provided.

12. Slide excess wires back into furnace compartment.

13. Slide furnace into compartment until flange on furnace housing contacts the lower galley front. Make certain furnace aligns with vent opening.

14. Secure furnace to the galley front with two screws, one on each side of the furnace. (Screws from removal of galley door can be used.)

15. Attach open end of gas line assembly to gas fitting on furnace.

16. Apply putty tape to perimeter of vent sleeve and slide into rear of furnace casing. Apply putty tape to top and sides of rear exterior vent assembly. Slide exhaust tube into rear of furnace and fasten vent sleeve and vent to panel with two 1/2” self-tapping screws provided.

IMPORTANT: Cutting may be necessary to shorten vent sleeve to allow proper positioning against the exterior body panel when installing the vent sleeve. A minimum overlay of 1/2” must be maintained between the vent sleeve and furnace casing for proper air exchange.

17. Locate the loose end of the thermostat wire harness inside one of the dinette seat assemblies. This harness will consist of one orange wire and one black wire. The thermostat will be installed in the paneling of this dinette seat assembly.

18. Use the back of the thermostat plastic base as a template and mark the dinette seat paneling as shown in figure 4. (The dimensions in figure 4 are a guideline only. These dimensions can be deviated from if necessary.) Cut out this opening.

19. Drill a 3/8” hole through the center of the thermostat plastic base.
20. Place the split bushing provided through the center hole in the metal U-shaped thermostat bracket. Route the spade terminals through this bushing and through the hole cut in the thermostat plastic base. Attach the wires to the thermostat: black wire to the fused side of the thermostat (thin copper wire); orange wire to the heat anticipator side of the thermostat. Attach the plastic base to the thermostat bracket and bench panel with the two 7/16" aluminum rivets provided. Attach the thermostat to the plastic base with two 13/16" rivets and the two flat washers provided. Connect the male plug end on the thermostat wire harness to the female plug end on the remaining thermostat wires.

**NOTE:** Ensure that the proper color coded wires are connected: black to black, orange to orange, etc.

21. Secure thermostat wires to floor with the two remaining plastic wire clamps and two 1/2" self-tapping screws.

**CAUTION:** Never use a match or open flame to check for leaks as fire or explosion could result. Do not use ammonia solutions to check for leaks.

22. Apply pressure to gas line and test all connections for possible leaks using a soap solution.

23. Install inside heater grille.

24. Refer to furnace operating manual for lighting instructions.
FIGURE 1

(DRAWING NOT TO SCALE)

USE THESE DIMENSIONS FOR VENT CUTOUT AFTER CENTER POINT HOLE HAS BEEN DRILLED IN BODY PANEL.
FIGURE 2

HEATER VENT CUTOUT LOCATION
1997 MODELS ONLY

LEFT BODY PANEL

NOTE: VENT CUTOUT SIZE ON ALL MODELS = 5" X 2 1/2"

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIAGARA</td>
<td>54 5/8&quot;</td>
<td>5 3/8&quot;</td>
<td>—</td>
</tr>
<tr>
<td>KEY WEST</td>
<td>—</td>
<td>11 1/2&quot;</td>
<td>42 3/4&quot;</td>
</tr>
<tr>
<td>SUN RIDGE</td>
<td>64 1/16&quot;</td>
<td>3 5/8&quot;</td>
<td>—</td>
</tr>
<tr>
<td>YUKON</td>
<td>101&quot;</td>
<td>11 1/2&quot;</td>
<td>—</td>
</tr>
<tr>
<td>SUN VALLEY</td>
<td>70 3/8&quot;</td>
<td>3 5/8&quot;</td>
<td>—</td>
</tr>
<tr>
<td>WESTLAKE</td>
<td>—</td>
<td>5 7/8&quot;</td>
<td>80&quot;</td>
</tr>
<tr>
<td>SEA PINE</td>
<td>—</td>
<td>5 7/8&quot;</td>
<td>70 1/2&quot;</td>
</tr>
<tr>
<td>SANTA FE</td>
<td>—</td>
<td>9 3/8&quot;</td>
<td>37 3/16&quot;</td>
</tr>
<tr>
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<td>—</td>
<td>9 3/8&quot;</td>
<td>37 3/16&quot;</td>
</tr>
<tr>
<td>BAYPORT</td>
<td>18&quot;</td>
<td>9 3/8&quot;</td>
<td>—</td>
</tr>
</tbody>
</table>

97HTR
FIGURE 4

SPLIT LOWER GALLEY DIVIDER

HEATER

1203-864 RIVET X2

4741A925 WOOD BLOCKS

DINETTE SEAT BENCH PANEL

4747-839 THERMOSTAT BRACKET

47378925 THERMOSTAT BASE

NOTE:
1203-874 RIVET AND 12028026 WASHER WILL BE USED TO ATTACH THERMOSTAT TO PLASTIC BASE.