INSTALLATION INSTRUCTIONS
FOR
SERVO HEATER CONTROL VALVE KIT
50507-VUA
## Table of Contents

<table>
<thead>
<tr>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. COVER</td>
</tr>
<tr>
<td>2. TABLE OF CONTENTS</td>
</tr>
<tr>
<td>3. PACKING LIST</td>
</tr>
<tr>
<td>4. CONTROL PANEL/ECU MODULE INSTALLATION</td>
</tr>
<tr>
<td>5. HEATER HOSE ROUTING/WIRING DIAGRAM</td>
</tr>
<tr>
<td>6. PACKING LIST</td>
</tr>
</tbody>
</table>
**BEFORE BEGINNING INSTALLATION, OPEN ALL PACKAGES AND CHECK CONTENTS OF SHIPMENT. PLEASE REPORT ANY SHORTAGES DIRECTLY TO VINTAGE AIR WITHIN 15 DAYS. AFTER 15 DAYS, VINTAGE AIR WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED ITEMS.**
CONTROL PANEL/ECU MODULE INSTALLATION


- SELECT A SUITABLE LOCATION FOR THE ECU MODULE AND HEATER CONTROL VALVE INSIDE THE VEHICLE OR WATER TIGHT LOCATION. SEE FIGURE 1.

HEATER HOSE INSTALLATION & HOSE ROUTING

- AFTER THE EVAPORATOR/HEATER IS IN PLACE, RUN 5/8" HEATER HOSE FROM THE HEATER TUBE THRU THE FIREWALL OR BEHIND THE KICK PANEL THRU FLOORBOARD TO THE INTAKE MANIFOLD HEATER CONNECTION. INSTALL THE HEATER CONTROL VALVE IN THIS LINE. (PRESSURE) SEE FIGURE BELOW. (BE SURE TO FOLLOW FLOW ARROW ON HEATER CONTROL VALVE)

- INSTALL 5/8" HEATER HOSE ON THE REMAINING HEATER TUBE. ROUTE HOSE THRU FIREWALL OR BEHIND KICK PANEL THRU FLOORBOARD AND OUT TO WATER PUMP CONNECTION. (SUCTION)

FILL RADIATOR WITH AT LEAST A 50/50 MIXTURE OF APPROVED ANTIFREEZE AND WATER. IT IS THE OWNER’S RESPONSIBILITY TO KEEP THE FREEZE PROTECTION AT THE PROPER LEVEL FOR THE CLIMATE IN WHICH THE VEHICLE IS OPERATING. FAILURE TO FOLLOW ANTIFREEZE RECOMMENDATIONS WILL CAUSE HEATER CORE TO CORRODE PREMATURELY AND POSSIBLY BURST IN THE A/C MODE AND/OR FREEZING WEATHER, VOIDING YOUR WARRANTY. CHECK COMPLETE A/C ASSEMBLY FOR PROPER OPERATION.
• START ENGINE AND RUN, UNTIL NORMAL OPERATING TEMPERATURE IS REACHED. DEPENDING ON YOUR SYSTEM PLACE SWITCH IN HEAT POSITION AND SELECT DESIRED FAN SPEED. ADJUST HEAT KNOB TO DESIRED HEAT SETTING (CLOCKWISE FOR MORE HEAT).

• WHEN VALVE IS CLOSED, INLET SIDE OF VALVE SHOULD BE HOT AND OUTLET SIDE SHOULD BE COOL. WHEN THE VALVE IS OPEN, BOTH INLET AND OUTLET SIDES SHOULD BE HOT.

• CONNECT WIRING ACCORDING TO DIAGRAM BELOW.

IF PREVIOUSLY REMOVED, REINSTALL DASH AND ENSURE THAT THE DUCT HOSE IS SECURELY ON THE DASH VENT HOSE ADAPTERS.

ELECTRONIC SERVO OPERATED HEATER CONTROL VALVE

NOTE: VINTAGE AIR RECOMMENDS MOUNTING ELECTRIC SERVO OPERATED HEATER CONTROL VALVE INSIDE VEHICLE OR IN WATERPROOF LOCATION.

WIRING DIAGRAM
SERVO HEATER CONTROL VALVE KIT

CONNECT TO KEY ON IGNITION SOURCE

RED
1 AMP FUSE

WHITE/GREY
WHITE/BLUE
WHITE/BLACK
WHITE/WHITE
WHITE/ORANGE

RED/WHITE
WHITE/YELLOW
GREY/BLACK
WHITE/BROWN
WHITE/RED

ECU CONTROL MODULE

HEATER CONTROL VALVE POTentiOMETER
(ROTARY)

HEATER HOSE FROM IntAKE MANIfOLD
CLAMPS FROM HEATER CONTROL VALVE TO EVAPORATOR

FROM EVAPORATOR TO WATER PUMP

Hose CLAMPS

EVAPORATOR UNIT

CLAMPS

CONNECT TO KEY ON IGNITION SOURCE
**SERVO HEATER CONTROL VALVE PACKING LIST**

<table>
<thead>
<tr>
<th>No.</th>
<th>QTY.</th>
<th>PART No.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1</td>
<td>47200-RUA</td>
<td>UNDER DASH ROTARY CONTROL ASSEMBLY</td>
</tr>
<tr>
<td>2.</td>
<td>1</td>
<td>24650-PUA</td>
<td>SERVO HEATER CONTROL VALVE ECU ASSEMBLY</td>
</tr>
<tr>
<td>3.</td>
<td>1</td>
<td>461170</td>
<td>VALVE, HEATER CONTROL, 5-WIRE</td>
</tr>
<tr>
<td>4.</td>
<td>4</td>
<td>18235-VUB</td>
<td>#8 x 1/2” PH SCREW</td>
</tr>
</tbody>
</table>

**BEFORE BEGINNING INSTALLATION, OPEN ALL PACKAGES AND CHECK CONTENTS OF SHIPMENT. PLEASE REPORT ANY SHORTAGES DIRECTLY TO VINTAGE AIR WITHIN 15 DAYS. AFTER 15 DAYS, VINTAGE AIR WILL NOT BE RESPONSIBLE FOR MISSING OR DAMAGED ITEMS.**