CUSTOM ROTARY CONTROL HEAD WIRING
VACUUM OPERATION DIAGRAM
(ELECTRIC BLEND AIR)

MAIN VACUUM HARNESS
P/N 4103820

<table>
<thead>
<tr>
<th>MODE</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX A/C</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>NORM A/C</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>VENT</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>OFF</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>FLOOR</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>MIX</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>DEFROST</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

WATER SHUT-OFF VALVE IN SUPPLY HOSE FROM ENGINE (CLOSES IN MAX A/C)

REVISED 6/1980
CUSTOM ROTARY CONTROL HEAD WIRING
ELECTRIC WATER VALVE UNIT

CONTROL HEAD ASSY P/N 4102804
MAIN WIRE HARNESS P/N 4103773
(MODE SWITCH P/N 4102805, TEMP. RHEOSTAT P/N 4102735, BLWR SWT P/N 4100362)

[Diagram of wiring connections with labels and colors specified]

2 PORT WATER VALVE RESISTOR 46.6 VIOLET 590 OHM BROWN

COLOR KEY
- VT VIOLET
- BK BLACK
- BL BLUE
- GN BROWN
- OR ORANGE
- RD RED
- WT WHITE
- YL YELLOW

UPDATED 12/11/99 (c) 1999 ACME AIR, INC.
CUSTOM ROTARY CONTROL HEAD WIRING

ELECTRIC WATER VALVE UNIT

CONTROL HEAD ASSY P/N 4102804, MAIN WIRE HARNESS P/N 4103784
(MODE SWITCH P/N 4102805, TEMP. RHEOSTAT P/N 4102735, BLWR SWT. P/N 4100362)

COLOR KEY

VT VIOLET
BK BLACK
BL BLUE
BN BROWN
GN GREEN
OR ORANGE
RD RED
WT WHITE
YL YELLOW

[Diagram of wiring connections and components]
SPARTAN AND SINGLE RAIL FREIGHTLINER
CUSTOM ROTARY CONTROL HEAD WIRING
ELECTRIC WATER VALVE UNIT

CONTROL HEAD ASSY P/N 4102804, MAIN WIRE HARNESS P/N 4103784
(MODE SWITCH P/N 4102805, TEMP. RHEOSTAT P/N 4102735, BLWR. SWT. P/N 4100362)

COLOR KEY
- VT VIOLET
- BK BLACK
- BL BLUE
- BN BROWN
- GN GREEN
- OR ORANGE
- RD RED
- WT WHITE
- YL YELLOW
WORKHORSE
CUSTOM ROTARY CONTROL HEAD WIRING
ELECTRIC WATER VALVE UNIT

CONTROL HEAD ASSY P/N 4102804, MAIN WIRE HARNESS P/N 4103784
(MODE SWITCH P/N 4102805, TEMP. RHEOSTAT P/N 4102735, BLWR SWT. P/N 4100362)

COLOR KEY
- VT VIOLET
- BK BLACK
- BL BLUE
- BN BROWN
- GN GREEN
- OR ORANGE
- RD RED
- WT WHITE
- YL YELLOW

[Diagram of wiring connections]
# Vacuum Diagram

## Standard Control Head Vacuum Diagram

"Applicable to ACME systems only"

![Diagram of control head](image)

<table>
<thead>
<tr>
<th>Vacuum</th>
<th>Electrical</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
</tr>
<tr>
<td>4</td>
<td>D</td>
</tr>
<tr>
<td>5</td>
<td>E</td>
</tr>
</tbody>
</table>

### Switch Positions

- **OFF**: X X
- **MAX AC**: X X
- **A/C**: X X X X X X
- **VENT**: X X X X X X
- **HEAT**: X X X X
- **DEF**: X X X X X X
BI-LEVEL CONTROL HEAD

VACUUM DIAGRAM

"APPLICABLE TO ACME SYSTEMS ONLY"

---

VACUUM

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

ELECTRICAL

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

* Pull Out Button For Non-A/C Mode.
WIRING DIAGRAM

NOTES:
* Blue/white compressor wire connects to O.E.M. green wire located in O.E.M. harness above brake light switch wires on 1991 Chevy chassis. All other applications connect blue/white wire directly to compressor.

* Connect to O.E.M. plug at condenser on 1991 Chevy chassis. Applications without condenser fans Brown and Brown/Black wires are not used. If using auxiliary fan assembly connect Brown wire and Brown/Black wire to normal pressure switch connection on condenser fan harness.

* Jumper number 4103724 replaces the primary switch on the 1995 and later Ford and Chevy chassis.

Connect to O.E.M. Plug at Condenser on 1991 Chevy chassis. Applications without condenser fans brown and brown/black wires are not used. If using auxiliary fan assembly connect brown wire and brown/black wire to normal pressure switch connection on condenser fan harness.

* Blue/white compressor wire connects to O.E.M. green wire located in O.E.M. harness above brake light switch wires on 1991 Chevy chassis. All other applications connect blue/white wire directly to compressor.