NOTES:

1.0 COMPLETE INSTALLATION INCLUDES AND IS NOT LIMITED TO:

1.1 UNIT INSTALLATION

1.2 BATTERY INSTALLATION, INCLUDING DRAIN HOSE

1.3 COMPLETION OF PRE-DELIVERY INSPECTION (PDI) PER MODEL

1.3.1 UNIT PREP AND INITIAL ADJUSTMENTS

1.3.2 CHECKLIST

1.3.3 UNIT RUN IN PER PDI CHECKLIST

1.2.4 WARRANTY REGISTRATION CARD SUBMITTAL

1.4 DEFROST LINE ROUTING AND CLAMPING

1.5 FUEL LINE CONNECTIONS TO UNIT

1.6 POWER PLUG ASSEMBLY TO CUSTOMER POWER CABLE

2.0 THE TRAILER STRUCTURE MUST BE EVALUATED BY THE TRAILER MANUFACTURER TO DETERMINE IT'S ABILITY TO WITHSTAND THE LOADS IMPOSED BY THE UNIT OVER IT'S SERVICE LIFE. CARRIER TRANSICOLD DOES NOT CONVEY ANY ENDORSEMENT OR WARRANTY FOR THE TRAILER'S STRUCTURAL INTEGRITY.

WEIGHTS:

NDP-532 REEFER UNIT (WET, LESS BATTERY): 2045 LBS (927.6 kg)

BATTERY (TYPICAL): 80 LBS (36 kg) MAXIMUM

3.0 UNIT MOUNTING SURFACES OF THE TRAILER THAT CONTACT THE UNIT MOUNTING PADS MUST BE UNI-PLANAR TO WITHIN 0.13 [3] TO PREVENT DISTORTION OF THE UNIT AND/OR TRAILER.

4.0 TRAILER SURFACES THAT CONTACT THE UNIT MOUNTING GASKET SHOULD NOT PROTRUDE MORE THAN 0.19 [5] ABOVE THE PLANE DEFINED BY THE MOUNTING PAD SURFACES TO ENSURE PROPER AIR SEAL.

5.0 ALL DIMENSIONS SHOWN ARE IN INCHES, WITH THE METRIC CONVERSIONS IN [MILLIMETERS].
### Trailer Body Preparation

#### Trailer or Boxcar Front View

**Sym Revision Record Date by Engr. M.E. NPCA No.**

<table>
<thead>
<tr>
<th>Drawings</th>
<th>Title</th>
<th>RevD</th>
<th>33.40</th>
<th>4.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>46.00</td>
<td>OPENING</td>
<td>4.61</td>
<td>848</td>
<td>1168</td>
</tr>
<tr>
<td>70.00</td>
<td>35.00</td>
<td>889</td>
<td>1168</td>
<td>118</td>
</tr>
<tr>
<td>1.61</td>
<td>2.80</td>
<td>71</td>
<td>120</td>
<td>20</td>
</tr>
<tr>
<td>6.44</td>
<td>2.00</td>
<td>164</td>
<td>64</td>
<td>76</td>
</tr>
</tbody>
</table>

**Opening 4.61 [117]**

**Sym Revision Record Date by Engr. M.E. NPCA No.**

<table>
<thead>
<tr>
<th>Drawings</th>
<th>Title</th>
<th>RevD</th>
<th>33.40</th>
<th>4.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>46.00</td>
<td>OPENING</td>
<td>4.61</td>
<td>848</td>
<td>1168</td>
</tr>
<tr>
<td>70.00</td>
<td>35.00</td>
<td>889</td>
<td>1168</td>
<td>118</td>
</tr>
<tr>
<td>1.61</td>
<td>2.80</td>
<td>71</td>
<td>120</td>
<td>20</td>
</tr>
<tr>
<td>6.44</td>
<td>2.00</td>
<td>164</td>
<td>64</td>
<td>76</td>
</tr>
</tbody>
</table>

**Opening 4.61 [117]**

**CAUTION: TAILER OR BOXCAR SURFACES THAT CONTACT THE UNIT MOUNTING SURFACES OF TRAILER OR BOXCAR THAT CONTACT THE UNIT MOUNTING SURFACES OF TRAILER OR BOXCAR.**

**UNIT MOUNTING SURFACES TO ENSURE PROPER AIR SEAL.**

**PADS MUST BE UNI-PERLAR TO WITHIN 0.13 [3] TO PREVENT DISTORTION.**

**ALLOW 2.75" SPACE AROUND TRAILER OPENING FOR GASKET SEALING. (SEE CAUTION NOTES)**

**TRAILER BODY PREPARATION**

**IMPERIAL INCH FORMAT:**

- UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES WITH METRIC CONVERSIONS IN [MILLIMETERS].

**INSTALLATION INSTRUCTIONS**

1. PRELIMINARY RELEASE. XX/XX/XX
2. ADDED STUD LOCATION NOTE, 3.00 MAX - 2.50 MIN. WAS 2.50 MIN.
3. 2.80 MAX - 0.80 MIN. WAS 5.00 MAX - 1.00 MIN.

08-MAR-10 KM 72N0026P10
NOTE: BULKHEAD, AIR CHUTE AND TRANSITION DUCT SHOWN ARE OPTIONAL FEATURES FOR BEST AIR CIRCULATION AND PRODUCT PROTECTION. CARRIER RECOMMENDS THE USE OF BULKHEADS AND AIR CHUTES. CONTACT YOUR DEALER OR CARRIER TRANSICOLD FOR RECOMMENDATIONS.

SUPERSEDES

ACCEPTANCE OF CONTRACT DOES NOT CONSTITUTE PART PERFORMANCE OR SUBMISSION OF THESE DRAWINGS OR DOCUMENTS.

SYM REVISION RECORD

REVDRAWING NO.

NOTE: BULKHEAD, AIR CHUTE AND TRANSITION DUCT SHOWN ARE OPTIONAL FEATURES FOR BEST AIR CIRCULATION AND PRODUCT PROTECTION. CARRIER TRANSICOLD HIGHLY RECOMMENDS THE USE OF BULKHEADS, AIR CHUTES AND TRANSITION DUCTS. CONTACT YOUR DEALER OR CARRIER TRANSICOLD FOR RECOMMENDATIONS.

PREPARE UNIT FOR INSTALLATION:

1. PREPARE THE BODY TO RECEIVE THE UNIT. DIMENSIONS FOR EVAPORATOR OPENING AND MOUNTING STUD LOCATIONS CAN BE FOUND ON SHEET 4 OF THIS DRAWING.

2. REMOVE WIRE TIES HOLDING DEFROST DRAIN HOSES, COOLANT OVERFLOW TUBE AND FUEL LINES. PLACE LINES WHERE THEY WILL NOT BE CAUGHT BETWEEN THE UNIT FRAME AND THE MOUNTING SURFACE.

3. OPEN SIDE DOORS TO ALLOW ACCESS TO MOUNTING STUD LOCATIONS ON UNIT.

4. INSTALL BATTERY ACCORDING TO INSTRUCTIONS ON SHEET 6. IF UNIT HAS BEEN SUPPLIED WITH BATTERY, CONNECT BATTERY CABLES ACCORDING TO THE INSTRUCTIONS ON SHEET 6.

5. PREPARE THE UNIT FOR LIFTING. STANDING ON A LADDER OR WORK-STAND, HOOK LIFTING APPARATUS (LIFTING SPREADER BAR WITH SUFFICIENT CAPACITY TO SUPPORT UNIT AND BATTERY) THROUGH THE LIFTING EYES. LIFT POINT SHOULD BE CENTERED OVER THE UNIT.

UNIT INSTALLATION:

6. RAISE THE UNIT AND INSTALL IN THE BODY OPENING. ENSURE THAT ALL MOUNTING STUDS ARE FULLY ENGAGED IN THE UNIT FRAME. WASHERS (ITEM 70) AND LOCK-NUTS (ITEM 45) ON EACH MOUNTING STUD MUST BE ACCESSIBLE TO THE END OF THE UNIT. SNUG THE NUTS, THEN EVENLY TIGHTEN ALL TO 60 FT-LB/81.6 NM USING A TORQUE WRENCH. REMOVE LIFTING APPARATUS.

7. INSTALL PLUGS (ITEM 92) IN UNIT FRAME WHERE MOUNTING STUDS ARE LOCATED AND ADDITIONAL UNUSED HOLES (SEE SHT.2).

8. ROUTE DEFROST DRAIN HOSES DOWN THE FRONT OF THE TRAILER OR BOXCAR AND CLAMP TO FRONT WALL USING 2 CLAMPS (ITEM 15) AND 2 THREAD FORMING SCREWS (ITEM 30) FOR EACH DRAIN HOSE. CUT HOSE TO PROPER LENGTH (APPROXIMATELY 3.00" ABOVE 5TH-WHEEL PLATE ON TRAILER) AND INSTALL KAZOS (ITEM 90) ON THE HOSES.

9. INSTRUCTIONS FOR FUEL LINE CONNECTION ARE SUPPLIED WITH THE FUEL TANK KIT. INSTRUCTIONS FOR LIGHT BAR INSTALLATION ARE INCLUDED WITH THE LIGHT BAR KIT.

10. IMPORTANT: PRIOR TO FINAL DELIVERY TO CUSTOMER, WARRANTY REGISTRATION (ITEM 101) MUST BE COMPLETED. ONE COPY SHOULD BE PROVIDED TO THE CUSTOMER, ONE COPY TO THE SELLER, AND THE FINAL COPY MUST BE SENT TO CARRIER TRANSICOLD. IN-SERVICE DATE MUST BE STAMPED ON THE UNIT IN THE PROPER LOCATION (SERIAL NUMBER PLATE) TO ACTIVATE WARRANTY COVERAGE.

11. IMPORTANT: PRIOR TO FINAL DELIVERY TO CUSTOMER, WARRANTY REGISTRATION (ITEM 101) MUST BE COMPLETED. ONE COPY SHOULD BE PROVIDED TO THE CUSTOMER, ONE COPY TO THE SELLER, AND THE FINAL COPY MUST BE SENT TO CARRIER TRANSICOLD. IN-SERVICE DATE MUST BE STAMPED ON THE UNIT IN THE PROPER LOCATION (SERIAL NUMBER PLATE) TO ACTIVATE WARRANTY COVERAGE.

12. IMPORTANT: PRIOR TO FINAL DELIVERY TO CUSTOMER, WARRANTY REGISTRATION (ITEM 101) MUST BE COMPLETED. ONE COPY SHOULD BE PROVIDED TO THE CUSTOMER, ONE COPY TO THE SELLER, AND THE FINAL COPY MUST BE SENT TO CARRIER TRANSICOLD. IN-SERVICE DATE MUST BE STAMPED ON THE UNIT IN THE PROPER LOCATION (SERIAL NUMBER PLATE) TO ACTIVATE WARRANTY COVERAGE.
UNITS SUPPLIED WITH BATTERY INSTALLED
1.0 Cut wire tie(s) that hold battery cables to unit frame.
2.0 Connect the battery cables to the positive (+) battery terminal. Connect the negative (-) battery terminal. Use of corrosion inhibitor is recommended.
3.0 Position terminal covers supplied with cables over terminals.
4.0 Install drain hose (item 6) to barb on bottom of battery tray. Use clamp (item 5) over hose and clamp hose to unit drain line using wire tie (item 55).

UNITS SUPPLIED WITHOUT BATTERY INSTALLED
1.0 Use the following information to correctly select the battery performance needed for refrigeration units.

- Group Size: Group 31
- Vent Location: Side Vent
- Volts: 12 Volts DC
- Amperage: Minimum 700 Cold Cranking Amps @ 0°F
- Minimum 545 Cold Cranking Amps @ -20°F

Note: When selecting a specific brand of battery, ensure that the battery chosen is rated at 0°F (0 degrees Fahrenheit) and not 0°C (0 degrees Celsius). Failure to use the proper battery size will result in reduced battery life and a no-start condition. The recommended maximum battery weight is 65 lbs.

2.0 Cut wire tie holding these parts in the battery tray and remove parts. Place battery with negative (-) terminal to the rear of the unit (as shown). Connect battery cables on the use of a corrosion inhibitor on the terminals is recommended. Use clamp to position the negative (-) terminal black cable to the negative (-) terminal. Use wire ties (item 55) to rout the harness as shown. Securely tighten the screw to prevent movement of the harness.
3.0 Install screws and hold-down channel using washers and lock washers as shown. Securely tighten the screw to prevent movement of the harness.
4.0 Position terminal covers supplied with cables over terminals.
5.0 Install drain hose (item 6) to barb on bottom of battery tray. Use clamp (item 5) over hose and clamp hose to unit drain line using wire tie (item 55).
Electrical Specifications & Minimum Standby Infrastructure for Carrier Transicold Trailer units equipped with Standby

<table>
<thead>
<tr>
<th>Vector 6600MT</th>
<th>Operating Voltage 460V / 3ph / 60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Full Load Amp Draw (FLA) 25 A</td>
</tr>
<tr>
<td></td>
<td>KVA 20.8</td>
</tr>
<tr>
<td></td>
<td>Locked Rotor Amp Draw (LRD) 90 A</td>
</tr>
<tr>
<td></td>
<td>Electrical Receptacle (installed on unit) IEC 76 pin &amp; sleeve, 460V, 30A, 4 wire, 3 pole</td>
</tr>
<tr>
<td></td>
<td>Receptacle pin 22-04166-00</td>
</tr>
<tr>
<td></td>
<td>Phase reversal Automatic</td>
</tr>
<tr>
<td>Standby circuit breaker &amp; cordset specifications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Standby cable type &amp; gauge (min 50', long, up to 75' long) SOOW, 600V, 90 C, 104 (3ph + G)</td>
</tr>
<tr>
<td></td>
<td>Recommended external circuit breaker 30A</td>
</tr>
<tr>
<td></td>
<td>Connector pin 22-04167-00</td>
</tr>
</tbody>
</table>

Minimum Requirements for Standby Infrastructure

1. Ensure that the standby power installation is performed by a licensed electrician who is familiar with both local and national electric codes and requirements.
2. Each refrigeration unit must be protected by an individual circuit breaker sized per the appropriate unit electrical specification listed above.
3. A continuous earth fault ground conductor must be provided at the plug and through the power cord to the refrigeration unit.
4. Carrier Transicold recommends that customers establish an Assured Equipment Grounding Conductor Program per the National Electric Code (NEC). Per the Assured Equipment Grounding Conductor Program, the NEC calls for all conductors to be verified for ground continuity and correct wiring on a 3-month basis.
5. A neutral conductor MUST NOT be connected to the refrigeration units. All Carrier Transicold refrigeration units are balanced three phase systems, therefore, the unit only requires three phase wires and a ground conductor.
6. Standby power cords between the circuit breaker and the refrigeration unit MUST constructed from 1/0 SOOW cable. Carrier recommends a minimum cable length of 50 feet to limit maximum fault currents and prevent damage to the power circuits within the unit.

WARNING:

BE SURE POWER IS DISCONNECTED TO CUSTOMER CABLE. READ ENTIRE SUPPLIER DIRECTIONS SUPPLIED WITH PLUG BEFORE STARTING INSTALLATION.