NOTES:

1.0 COMPLETE INSTALLATION INCLUDES AND IS NOT LIMITED TO:

1.1 UNIT INSTALLATION

1.2 BATTERY INSTALLATION, INCLUDING DRAIN HOLE.

1.3 COMPLETION OF PRE-DELIVERY INSPECTION PER MODEL

1.3.1 UNIT PREP AND INITIAL ADJUSTMENTS

1.3.2 CHECKLIST

1.3.3 UNIT RUN-IN PER PDI CHECKLIST

1.3.4 WARRANTY REGISTRATION CARD SUBMITTED

1.3.5 DATA LINK DOWNLOAD VERIFICATION

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

WEIGHTS:

NDA REEFER UNIT (WT, LESS BATTERY): 1,721 LBS (780 KG)

BATTERY (AVERAGED): 55 LBS (25 KG)

3.0 UNIT MOUNTING SURFACES OF THE TRAILER THAT CONTACT THE UNIT MOUNTING PADS MUST BE UNIPLANAR TO WITHIN 0.13802 TO PREVENT DISTORTION OF THE UNIT AND/OR TRAILER.

4.0 TRAILER SURFACES THAT CONTACT THE UNIT MOUNTING BASKET SHOULD NOT PROTRUDE MORE THAN 0.1815 IS 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 CONVERSION IN (MILLIMETERS).

FOR BEST RESULTS

(A) DO NOT LOAD CARGO AGAINST THE INTERNAL BULKHEADS.

(B) USE INTERNAL BULKHEADS WITH VERTICAL RIBBING TO PROMOTE AIR CIRCULATION AROUND THE CARGO.

(C) LOAD CARGO ON PALLETS OR CARTS, ESPECIALLY WHEN FLAT FLEETING IS USED.
UNIT MOUNTING SURFACES OF TRAILER THAT CONTACT THE UNIT MOUNTING PADS MUST BE UNIPLANAR TO WITHIN 0.133 (3.4 mm) TO PREVENT DISTORTION OF UNIT AND/OR TRAILER.

TRAILER SURFACES THAT CONTACT THE UNIT MOUNTING GASKET SHOULD NOT PROTRUDE MORE THAN 0.191 (5.0 mm) ABOVE THE PLANE DEFINED BY THE MOUNTING PAD SURFACES TO ENSURE PROPER AIR SEAL.

ALLOW 2.75" (69.9 mm) SPACE AROUND TRAILER OPENING FOR GASKET SEALING. (SEE GASKET CAUTION NOTES)

INSULATION

VERTICAL & HORIZONTAL FRAMING (THERMALLY NON-COCONDUCTIVE)

INSIDE LINER

2.50 MIN. (64)
(98 PCS)

TRAILER SIDE VIEW

TRAILER BODY PREPARATION

TRAILER FRONT VIEW

UNIT OUTLINE

TYPICAL BLADDER LOCATION

3.00 (76.2)

14.00 (355.6)

32.00 (812.8)

UNIT OUTLINE

THE PRODUCT IS THE PROPERTY OF CANDOR CORPORATION. ANY USE OR DISCLOSURE OF THE INFORMATION CONTAINED HEREIN BAZAAR WITHOUT THE EXPRESS WRITTEN CONSENT OF CANDOR CORPORATION IS PROHIBITED.
1.0 INSTALL THE 2 HINGES (ITEM 153) ONTO REAR FRAME MEMBER USING EXISTING HARDWARE AS SHOWN IN VIEW B. INSTALL HAIRPIN CLIP (ITEM 150) ON HINGES. USING THE HIGH VOLTAGE CONTROL BOX TO INSURE CORRECT HINGE ALIGNMENT. TIGHTEN SCREWS SECURELY.

2.0 USE EXISTING HARDWARE ON FRONT FRAME MEMBER TO SECURE CONTROL BOX TO UNIT. TIGHTEN SCREWS SECURELY.

IMPORTANT

3.0 MAKE HARNESS CONNECTIONS AND VERIFY CONNECTORS ARE SECURELY LOCKED IN PLACE ON CONTROL BOX.

4.0 VERIFY THAT THE STRAIN RELIEF ON THE H-VOLTAGE CONNECTOR IS CORRECTLY ORIENTED WITH THE BRAID FACING DOWN. IF NOT, CORRECT ORIENTATION TO PROPER POSITION.

IMPORTANT

5.0 LOCATE EXTERNAL GROUND WIRE ON HIGH VOLTAGE CONTROL BOX AND ROUTE TO GROUND STUD ON FRAME. USE EXISTING HARDWARE TO ATTACH GROUND TO FRAME. TIGHTEN GROUNDING NUT TO 72 IN-LBS. REAPPLY CORROSIVE INHIBITOR TO GROUND CONNECTION.
UNIT INSTALLATION

PREPARE UNIT FOR INSTALLATION:
1.0 PREPARE THE BODY TO RECEIVE THE UNIT DIMENSIONS FOR EVAPORATOR OPENING AND MOUNTING STUD LOCATIONS ARE ON SHEET 3 OF THIS DRAWING.
2.0 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 TRAILER WALL.
3.0 OPEN FRONT DOORS OF UNIT, REMOVE BELT GUARD (4 BOLTS).
4.0 OPEN SIDE DOORS TO ALLOW ACCESS TO MOUNTING STUD LOCATIONS ON UNIT.
5.0 INSTALL BATTERY ACCORDING TO INSTRUCTIONS ON SHEET 7, IF UNIT HAS BEEN SUPPLIED WITH BATTERY, CONNECT BATTERY CABLES ACCORDING TO THE INSTRUCTIONS ON SHEET 7.
6.0 PREPARE THE UNIT FOR LIFTING, STANDING ON A LADDER OR WORK-STAND, HOOK LIFTING APPARATUS (LIFTING BAR OR STRAPS WITH SUFFICIENT CAPACITY TO SUPPORT UNIT AND BATTERY) THROUGH THE LIFTING EYES. LIFT POINT SHOULD BE CENTERED OVER THE UNIT INSTALLATION.

7.0 RAISE THE UNIT AND INSTALL IN THE BODY OPENING, ENSURE THAT ALL EIGHT STUDS ARE FULLY ENGAGED IN THE UNIT FRAME, PLACE WASHER (ITEM 70) AND LOCK-NU (ITEM 43) ON EACH OF THE 8 STUDS. NOTE THE LOWER CENTER STUD MUST BE ACCESSED FROM THE FRONT OF THE UNIT. IF BELT GUARD WAS NOT REMOVED EARLIER, IT MUST BE REMOVED NOW TO ALLOW ACCESS TO THIS STUD. SNUG THE NUTS, THEN TIGHTEN ALL EIGHT TO 60 FT-LBS/61.5 NM USING A TORQUE WRENCH. REMOVE LIFTING APPARATUS.
8.0 INSTALL BUTTON PLUGS (ITEM 52) IN UNIT FRAME WHERE MOUNTING STUDS ARE LOCATED AND ADDITIONAL, UNOUSED HOLES (SEE SHEET 7).
9.0 ROUTE DEFROST DRAIN HOSES DOWN THE FRONT OF THE TRAILER AND CLAMP TO FRONT WALL OF TRAILER USING 2 CLAMPS (ITEM 15) AND 2 LINK FORMING SCREWS (ITEM 35) FOR EACH DRAIN HOSE. CUT HOSE TO PROPER LENGTH (APPROXIMATELY 3 0076/2 IN ABOVE SLP-WHEEL PLATE) AND INSTALL K6005 (ITEM 80) ON THE HOSES.
10.0 RE-INSTALL BELT GUARD.
11.0 INSTRUCTIONS FOR FUEL LINE CONNECTION ARE SUPPLIED WITH THE FUEL TANK KIT. INSTRUCTIONS FOR LIGHT BAR INSTALLATION ARE INCLUDED WITH THE LIGHT BAR KIT.
12.0 ATTACH DRAIN HOSE (ITEM 15) TO BARB ON BOTTOM OF BATTERY TRAY USING CLAMP (ITEM 5). ROUTE AND CLAMP HOSE TO UNIT DRAIN LINE USING WIRE TIES (ITEM 55); REFER TO VIEW IN LEFT CORNER.

NOTES CONTINUED ON SHEET 6

INSTALLATION INSTRUCTIONS
TM900/1000 MULTI-TEMP (NDA-93/4 M/T)
FUEL TANK INSTALLATION:

13.0 FUEL TANKS INSTALLED IN ACCORDANCE WITH THESE GUIDELINES WILL PROVIDE ADEQUATE SUPPORT IN NORMAL SERVICE ENVIRONMENTS INCLUDING INTERMODAL APPLICATIONS.

13.1. FUEL TANK SUPPORT STRAPS MUST ATTACH TO THREE CROSS MEMBERS. CROSS MEMBERS MUST BE A MINIMUM OF 12 IN. CENTER TO CENTER. STRAPS WILL BE ATTACHED TO CROSS MEMBERS IF THEY ARE ON 12 IN. CENTERS. CROSS MEMBERS ON 12 IN. CENTERS WILL REQUIRE A STRUCTURAL STEEL CHANNEL TO SPAN THEM. THIS CHANNEL IS NOT SUPPLIED BY CARRIER TRANSICOLD.

13.2. FUEL TANK SHOULD BE CENTERED BETWEEN FULL TANK STRAPS.

13.3. FOR MAXIMUM MECHANICAL OR ELECTRICAL FUEL PUMP PERFORMANCE, MINIMIZE FUEL LINE LENGTH.

13.4.2 MINIMIZE NUMBER OF CONNECTORS AND UNIONS.

13.4.3 NEVER USE ELBOW FITTINGS.

13.5. WHEN INSTALLING FLEXIBLE TUBE INTO THE TANK, PASS THE TUBES, BOTH SUPPLY & RETURN, THROUGH THE COMPRESSOR FITTINGS AND PUSH TUBES TO THE BOTTOM OF THE TANK. WHEN THE TUBES REACH THE BOTTOM OF THE TANK, PULL THEM BACK UP APPROXIMATELY 1.00 (25.4), THEN TIGHTEN THE COMPRESSION NUT.

14.0 RECOMMENDED TORQUE VALUES FOR FURNISHED LOCK NUTS ARE AS FOLLOWS:

- BOLT/THREAD TORQUE (FT-LBS) TORQUE (NEWTON-METRE)
- 1/4-20 8 12.24
- 3/8-24 20 45.8
- 1/2-13 60-EXCEPT AS NOTED 81.6-EXCEPT AS NOTED

15.0 EACH INSTALLATION KIT CONTAINS SUFFICIENT CLAMPS FOR SECUREMENT. THE INSTALLER MAY ROUTE FUEL LINES THROUGH CONDUIT, 3/4 IN. (75), MINIMUM, AS AN ALTERNATE TO USING GROMMETS. (CONDUIT AND GROMMETS FURNISHED AS PART OF INSTALLATION KIT).

16.0 USE PIPE SEALANT ON ALL PIPE CONNECTIONS (NOT FURNISHED AS PART OF INSTALLATION KIT).

AFTER INSTALLATION

17.0 PERFORM PRE-DELIVERY INSPECTION (ITEM 99). COPIES OF COMPLETED CHECKLIST SHOULD BE SUPPLIED TO SELLING DEALER AND CUSTOMER.

18.0 OPERATE UNIT IN CONTINUOUS RUN (MANUAL) MODE FOR A MINIMUM OF 6 HOURS (12 HOURS PREFERRED). PERFORM FINAL INSPECTION ON UNIT.

19.0 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.
TANK AND PUMP
FUEL LINE CONFIGURATION

1.0 (25.4) SEE NOTE 13.5

3.65
[3.57]
3.06
[77.7]
1.84
[46.9]
0.53 DIA HOLE
[13.5]
1.25
[31.8]
0.63
[15.9]

DRAWING BEING REVISED
PER PCA72N207CPOS Zeb Guest
01-FEB-2009

UNIT SUPPLIED WITHOUT BATTERY INSTALLED

1.0 CUT WIRE TIE HOLDING THESE PARTS IN THE BATTERY TRAY AND REMOVE PARTS, PLACE BATTERY IN TRAY WITH NEGATIVE (−) TERMINAL TO THE REAR OF THE UNIT (AS SHOWN). CONNECT BATTERY CABLES (THE USE OF A CORROSION INHIBITOR ON THE TERMINALS IS RECOMMENDED). RED CABLE TO POSITIVE (+) TERMINAL, BLACK CABLE TO THE NEGATIVE (−) TERMINAL. CABLES SHOULD BE ROUTED TOWARD THE COMPRESSOR (AS SHOWN). TIGHTEN TERMINAL CONNECTORS SECURELY.

2.0 INSTALL SCREWS AND HOLD-DOWN ANGLE USING PLAIN AND LOCK WASHERS AS SHOWN. SECURELY TIGHTEN THE SCREWS TO PREVENT MOVEMENT OF THE BATTERY.

3.0 POSITION TERMINAL COVERS SUPPLIED WITH CABLES OVER TERMINALS.

UNIT SUPPLIED WITH BATTERY INSTALLED

1.0 CUT WIRE TIES (S) THAT HOLD CABLES TO UNIT FRAME.

2.0 CONNECT RED BATTERY CABLE TO THE POSITIVE (+) BATTERY TERMINAL, CONNECT BLACK CABLE TO NEGATIVE (−) BATTERY TERMINAL (USE OF CORROSION INHIBITOR IS RECOMMENDED).

3.0 POSITION TERMINAL COVERS SUPPLIED WITH CABLES OVER TERMINALS.