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

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
      1.3.4 WARRANTY REGISTRATION CARD SUBMITTAL
      1.3.5 DATALINK DOWNLOAD VERIFICATION
   1.4 DEFROST LINE ROUTING AND CLAMPING
   1.5 FUEL LINE CONNECTIONS TO UNIT
2.0 THE TRAILER OR BOXCAR STRUCTURE MUST BE EVALUATED BY THE TRAILER OR BOXCAR 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 OR BOXCAR'S STRUCTURAL INTEGRITY.

WEIGHTS:
NDL X2 1800 REEFER UNIT (WET, LESS BATTERY): 1625 LBS
NDL X2 2100, 2100A REEFER UNIT (WET, LESS BATTERY): 1640 LBS
NDL X2 2500A REEFER UNIT (WET, LESS BATTERY): 1650 LBS
BATTERY (TYPICAL): 50 LBS

3.0 UNIT MOUNTING SURFACES OF THE TRAILER OR BOXCAR 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 OR BOXCAR 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].
CAUTION: UNIT MOUNTING SURFACES OF TRAILER OR BOXCAR THAT CONTACT THE UNIT MOUNTING GASKE...
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 hose, 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 eight studs are fully engaged in the unit frame, and lock them (item 45) on each of the eight studs (note: the lower center stud must be accessible from the front of the unit) using the nuts. Then evenly tighten all eight to 60 FT-LB/81.6 NM using a torque wrench. Remove lifting apparatus.

7. Install button plugs (item 92) in unit frame where mounting studs are located and additional unused holes (see note 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 hose. Cut hose to proper length (approximately 60" above 5th-wheel plate on trailer) and install kazoo's (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. After installation:

11. Perform pre-delivery inspection (item 98). Copies of completed checklist should be supplied to selling dealer and customer.

12. Operate unit in continuous run (manual) mode for a minimum of 8 hours (12 hours preferred) with rear doors open. Perform final inspection on unit.

13. Important: prior to final delivery to customer, warranty registration into unit must be completed. One copy should be provided to the customor, one copy to the dealer, and the final copy must be on file in the unit frame. Warranty activation is necessary to make the warranty effective.

14. Optional return air configuration: hole pattern or empty area for return air flow must total at least 2.75 ft² of air passage. Hole pattern or empty areas must be recessed so that cargo loaded against bulkhead will not obstruct air passage. Failure to meet these requirements may be installed tight with floor.
ITEMS SUPPLIED IN BATTERY KIT
(PARTS IN POLY BAG AND/OR ATTACHED TO BATTERY TRAY)

UNIT SUPPLIED WITH BATTERY INSTALLED

1.0 Cut wire tie(s) that hold these parts in battery tray and remove parts.

2.0 Place battery in tray with negative (-) terminal to the rear of the unit (as shown).

3.0 Tighten terminal connectors securely.

4.0 Install terminal covers supplied with cables over terminals.

UNIT SUPPLIED WITHOUT BATTERY INSTALLED

1.0 Use the following information to correctly select the battery performance needed for refrigeration unit:

- GROUP: GROUP 31
- VENT LOCATION: SIDE VENT
- VOLTS: 12 VOLS DC
- AMPERAGE: MINIMUM 700 COLD CRANKING AMPS @ 0 F
- MINIMUM 545 COLD CRANKING AMPS @ -20 F

NOTE: When selecting a specific brand of battery, always 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.

2.0 Cut wire tie holding these parts in the battery tray and remove parts.

3.0 Place battery in tray with negative (-) terminal to the rear of the unit (as shown).

4.0 Install terminal covers supplied with cables over terminals.

5.0 Place battery in tray with negative (-) terminal to the rear of the unit (as shown).

INSTALLATION INSTRUCTIONS

- METRIC CONVERSIONS IN MILLIMETERS
- UNLESS OTHERWISE SPECIFIED
- DIMENSIONS ARE IN INCHES
- WAS: EXTRA & ULTRA XT, ULTRA AND ULTIMA XTC
- C UPDATED TITLE BLOCK TO REFLECT MODELS COVERED, WAS: EXTRA & ULTRA XT, ULTRA AND ULTIMA XTC. 29AUG2007 PJS 72N001GP07
- E MOVED ENDS OF DRAIN LINES TO CORRECT LOCATION. 26OCT2009 ZMG 72N251GP09
- F REVISED TITLE BLOCK TO INCLUDE NDL-23 1/4/12 PJS 72N0081P11
TRANSACTION & CHUTE DETAILS

HARD RECTANGULAR CHUTE MIN. DIMENSIONS

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SOFT CHUTE MINIMUM DIMENSIONS

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NOTE: BULKHEAD AND AIR CHUTE SHOWN ARE OPTIONAL FEATURES.

FOR BEST AIR CIRCULATION AND PRODUCT PROTECTION,
CARRIER TRANSICOLD HIGHLY RECOMMENDS THE USE OF
BULKHEADS AND AIR CHUTES. CONTACT YOUR DEALER OR
CARRIER TRANSICOLD FOR RECOMMENDATIONS.

CHUTE REMOVED FOR CLEARIFICATION
OF TRANSITION

IMPERIAL INCH FORMAT:
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES WITH
METRIC CONVERSIONS IN [MILLIMETERS]