CROSS REFERENCE INDEX INSTALLATION DESCRIPTION KIT NO. DRAWING NO. 98-02201 76-00295-XX FUEL TANKS (22" DIAMETER) LED LIGHT BAR INSTALLATION INSTRUCTIONS 98-03246 76-02000-03 DECAL KIT: ENGLISH - ARABIC 98-03346 76-02033-01 DECAL KIT: ENGLISH - CHINESE 76-02033-04 98-03349

NOTES:

1.0 COMPLETE INSTALLATION INCLUDES AND IS NOT LIMITED TO:

1.1 UNIT INSTALLATION

1.1.1 MOUNTING HOLE PLUG 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

C UPDATED SHEET INDEX. SEE SHEET 5.

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

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:

VECTOR 8600MT REEFER UNIT (WET, LESS BATTERY): 1820 LBS [826 kg] VECTOR 8600MT REEFER UNIT W/EEŚ (WET, LESS BATTERY): 1865 LBS [846 kg] BATTERY (TYPICAL): 80 LBS [36kg] MAXIMUM

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.

3.1 MOUNTING STUDS MUST NOT PROTRUDE MORE THAN 3.0 INCHES FROM THE TRAILER OR BOXCAR SURFACE FOR PROPER INSTALLATION OF THE MOUNTING HOLE PLUGS.

- 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].
- 6.0 PRE-DELIVERY INSPECTION AND WARRANTY REGISTRATION DOCUMENTS ARE SHIPPED WITH UNIT AND ARE LOCATED IN THE SIDE DOOR POCKET WITH UNIT MANUAL AND SCHEMATIC.

KIT NO.	INSTALLATION DRAWING NO.	MODEL DESCRIPTION
76-02066-01	98-02702	VECTOR 8611MT (NDK), 2 & 3 COMPARTMENT MUTI-TEMP DOMESTIC

CONTENTS	SHEET
GENERAL INFORMATION	1
SWING RADIUS	2
UNIT DIMENSIONAL DATA	2
EVAP. BACK PANEL: TRAILER OR RAIL	3
TRAILER OR BOXCAR PREPARATION	4
UNIT INSTALLATION	5
UNIT LIFTING LOCATION	5
BATTERY INSTALLATION	6 & 7
STAND BY POWER PLUG INSTALLATION	8
BOTTOM PANEL INSTALLATION	9

SHEET	REV	С	А	В	В	С	-	-	-	-
INDEX	SHEET	1	2	3	4	5	6	7	8	9

SEE SEPARATE PARTS LIST

THIRD ANGLE PROJECTION

ECN1195346

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

INSTALLATION INSTRUCTIONS TRAILER: MUTI-TEMP VECTOR 8611MT

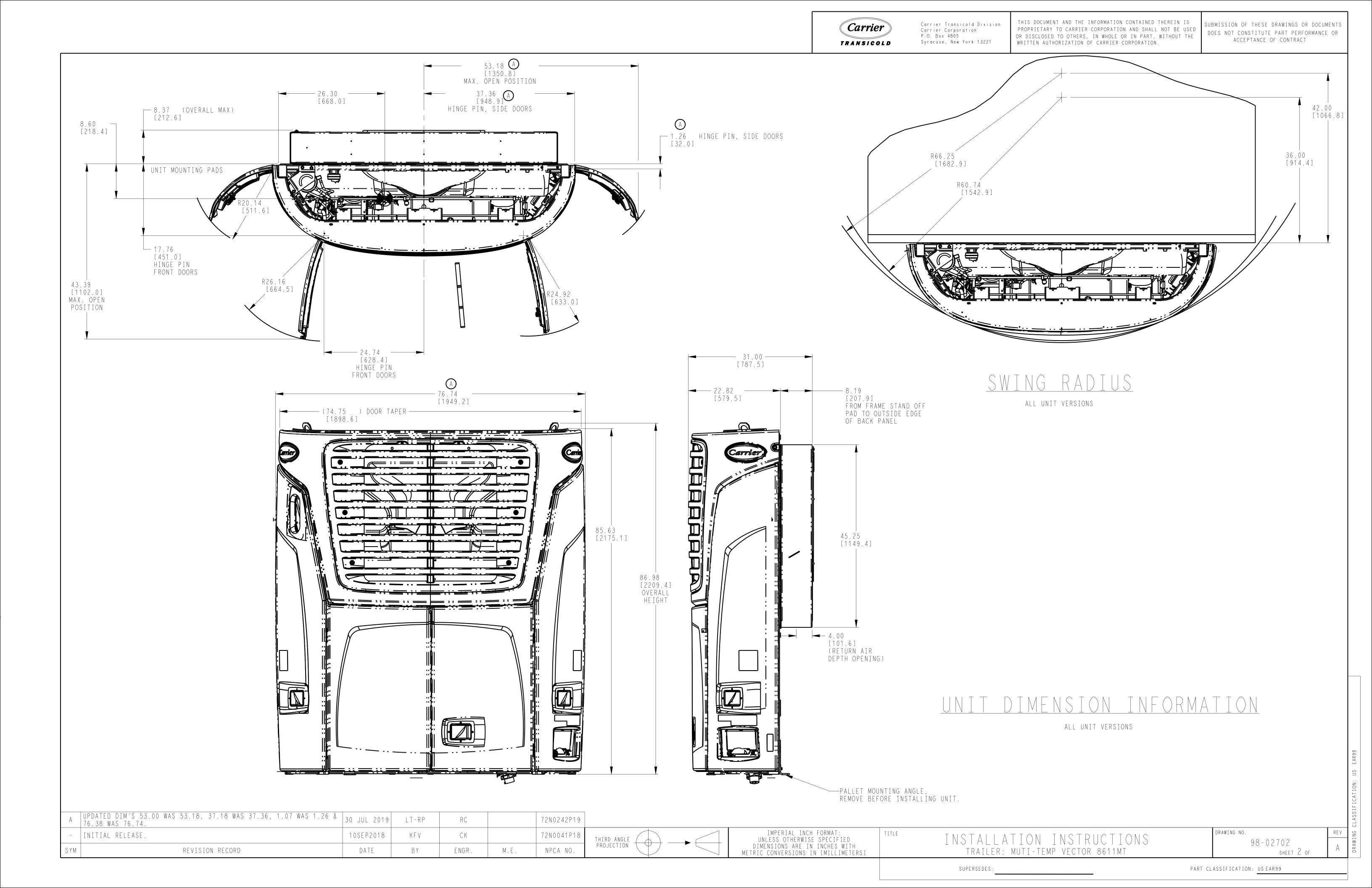
SUPERSEDES:

98-02702 SHEET 1 OF 9

PART CLASSIFICATION: US EAR99

В	UPDATED SHEET INDEX. SEE SHEETS 3, 4 & 5. ADDED NOTES 1.1 & 3.1.	27 OCT 2022	ZMG	HW		ECN1161283
А	UPDATED SHEET INDEX, SEE SHEETS 2 & 5.	30 JUL 2019	LT-RP	RC		72N0242P19
-	INITIAL RELEASE.	10SEP2018	KFV	СК		72N0041P18
SYM	REVISION RECORD	DATE	ВҮ	ENGR.	M . E .	NPCA NO.

02 MAY 2025



Carrier Transicold Division Carrier Corporation P.O. Box 4805 Syracuse, New York 13221

SUPERSEDES:

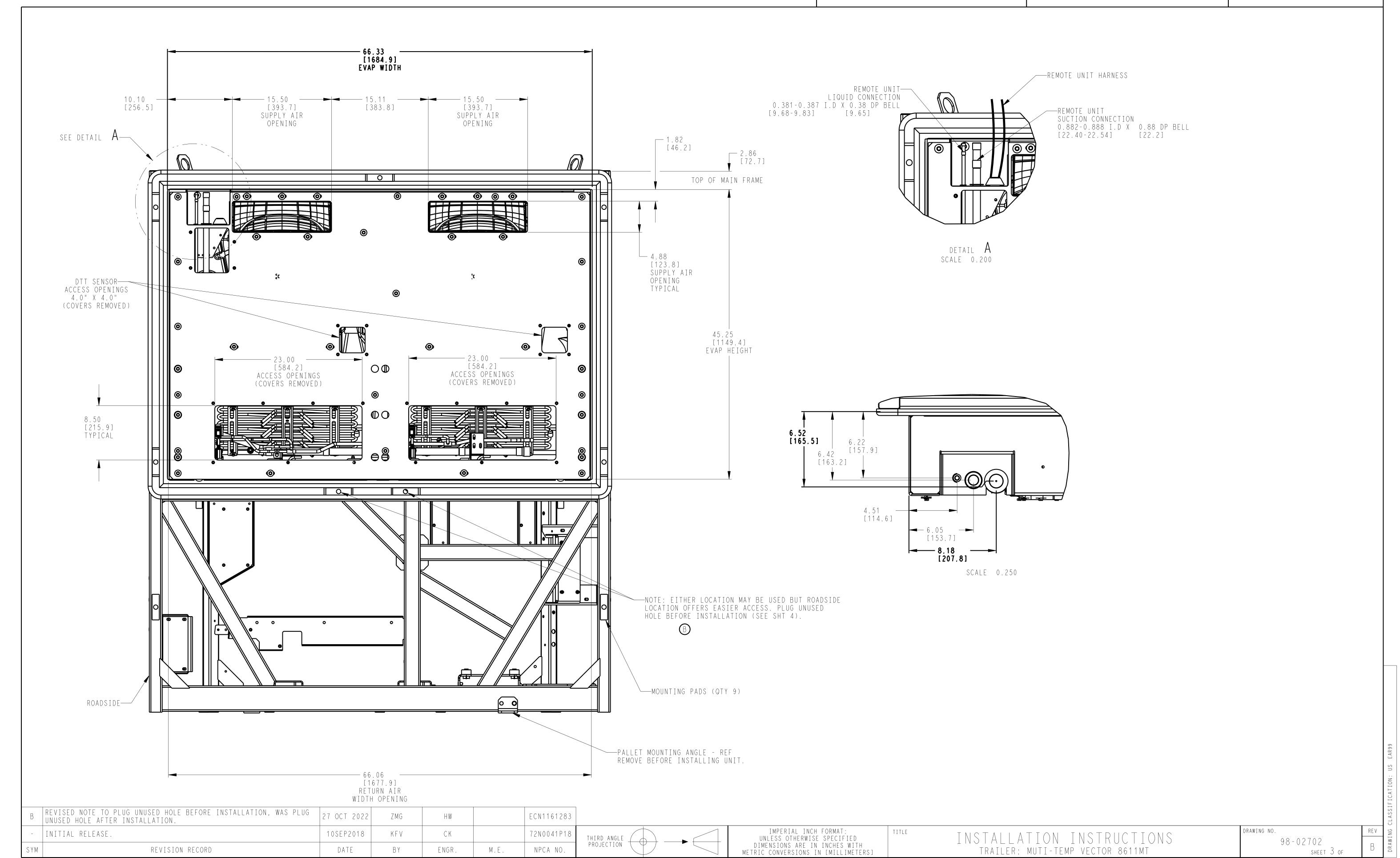
THIS DOCUMENT AND THE INFORMATION CONTAINED THEREIN IS PROPRIETARY TO CARRIER CORPORATION AND SHALL NOT BE USED OR DISCLOSED TO OTHERS, IN WHOLE OR IN PART, WITHOUT THE WRITTEN AUTHORIZATION OF CARRIER CORPORATION.

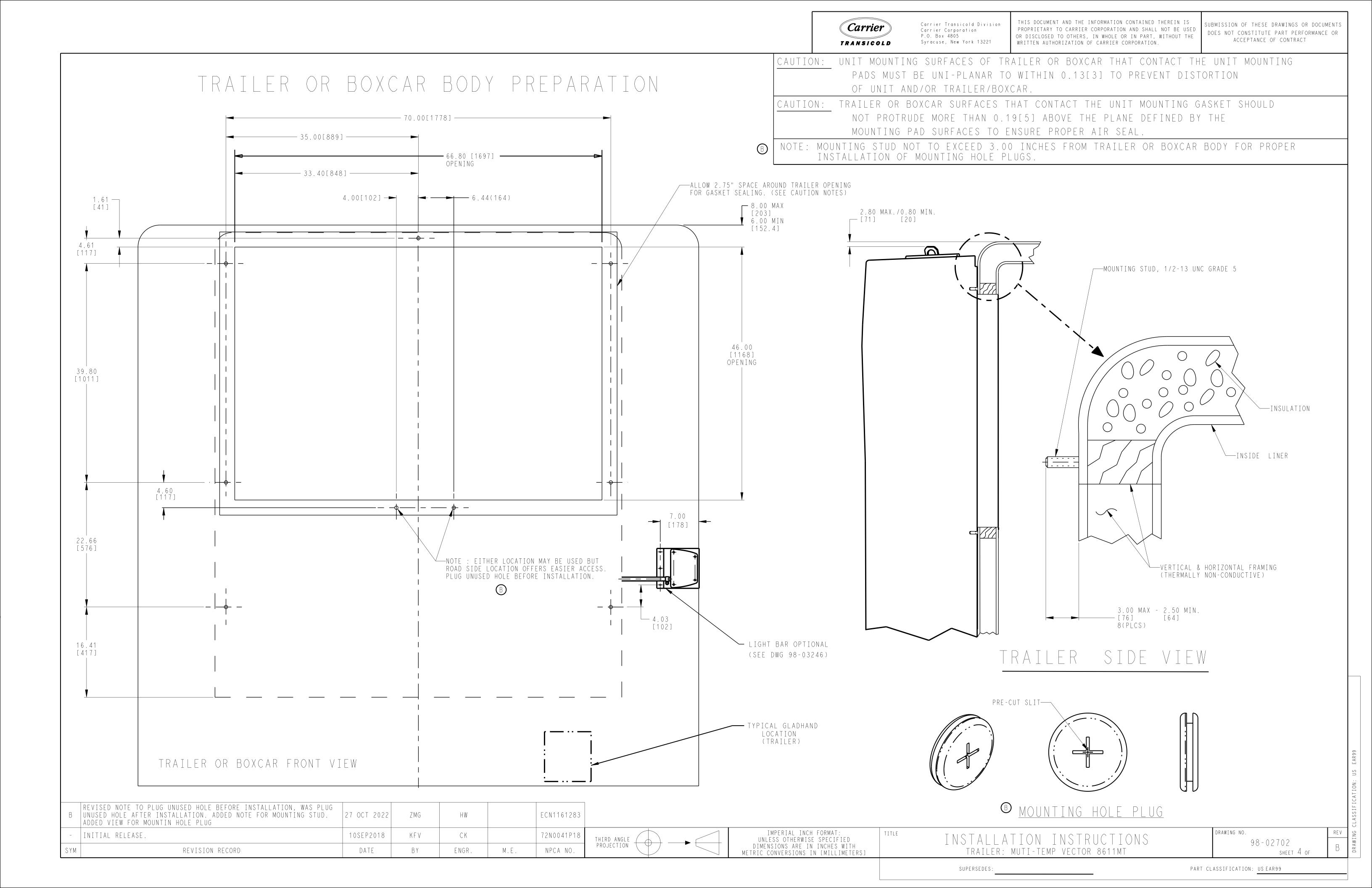
SUBMISSION OF THESE DRAWINGS OR DOCUMENTS

DOES NOT CONSTITUTE PART PERFORMANCE OR

ACCEPTANCE OF CONTRACT

PART CLASSIFICATION: US EAR99





PREPARE UNIT FOR INSTALLATION:

1.0 ENSURE ALL 8 STUDS ARE PERMANENTLY SECURED TO THE TRAILER FRONT WALL. PREPARE THE BODY TO RECEIVE THE UNIT. DIMENSIONS FOR EVAPORATOR OPENING AND MOUNTING STUD LOCATIONS AND LENGTHS CAN BE FOUND ON SHEET 4 OF THIS DRAWING.

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. REMOVE PALLET MOUNTING ANGLE ON BACK BOTTOM OF FRAME.

3.0 OPEN SIDE DOORS TO ALLOW ACCESS TO MOUNTING STUD LOCATIONS ON UNIT. 3.1 PLUG UNUSED HOLE WITH HOLE PLUG.

4.0 INSTALL BATTERY ACCORDING TO INSTRUCTIONS ON SHEETS 6 & 7. TO PREVENT ACCIDENTAL ELECTRIFICATION, DO NOT REMOVE TERMINAL COVERS OR CONNECT TERMINALS UNTIL AFTER UNIT IS COMPLETELY INSTALLED.

5.0 PREPARE THE UNIT FOR LIFTING: STANDING ON A LADDER OR WORK-STAND, MAKE A CLOSE-UP INSPECTION OF THE CONDITION AND INTEGRITY OF THE LIFTING EYES, THEN HOOK LIFTING APPARATUS (LIFTING SPREADER BAR WITH SUFFICIENT CAPACITY TO SUPPORT UNIT AND BATTERY) THROUGH THE LIFTING EYES.

<u>WARNING:</u> HOOKS OR CLEVISES SHOULD BE EQUIPPED WITH A LOCKING FEATURE. LIFT POINT SHOULD BE CENTERED OVER THE UNIT'S CENTER OF GRAVITY (SEE SHEET 2). WHILE LIFTING THE UNIT INTO PLACE, INSTALLER SHOULD NOT BE UNDER OR IN PROXIMITY OF THE SUSPENDED UNIT.

6.0 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-NUT (ITEM 45) ON EACH OF THE 8 STUDS (1/2-13 UNC GRADE 5). (NOTE: THE LOWER CENTER STUD MUST BE ACCESSED FROM THE FRONT OF THE UNIT.) SNUG THE NUTS, THEN EVENLY TIGHTEN ALL EIGHT TO 75-80 FT-LB/102-109 NM DRY USING A TORQUE WRENCH. FOR ALTERNATE SIZE M14 CLASS 8.8 STUDS, TIGHTEN ALL EIGHT TO 83 FTLBS/112 NM DRY USING A TORQUE WRENCH FOR ALTERNATE SIZE M13 CLASS 8.8 STUDS, TIGHTEN ALL EIGHT TO 77 FTLBS/104 NM DRY USING A TORQUE WRENCH. REMOVE LIFTING APPARATUS.

7.0 INSTALL MOUNTING HOLE PLUGS (ITEM 92) IN UNIT FRAME WHERE MOUNTING STUDS ARE LOCATED. ENSURE ALL 9 LOCATIONS HAVE HOLE PLUGS. IF THE MOUNTING STUD EXCEEDS THE MAXIMUM LENGTH OF 3.0 INCHES FROM THE TRAILER OR BOXCAR SURFACE, A PRE-CUT SLIT IS INCORPORATED IN THE MOUNTING HOLE PLUG TO ALLOW THE STUD TO PROTRUDE THROUGH THE PLUG. (SEE SHT.4).

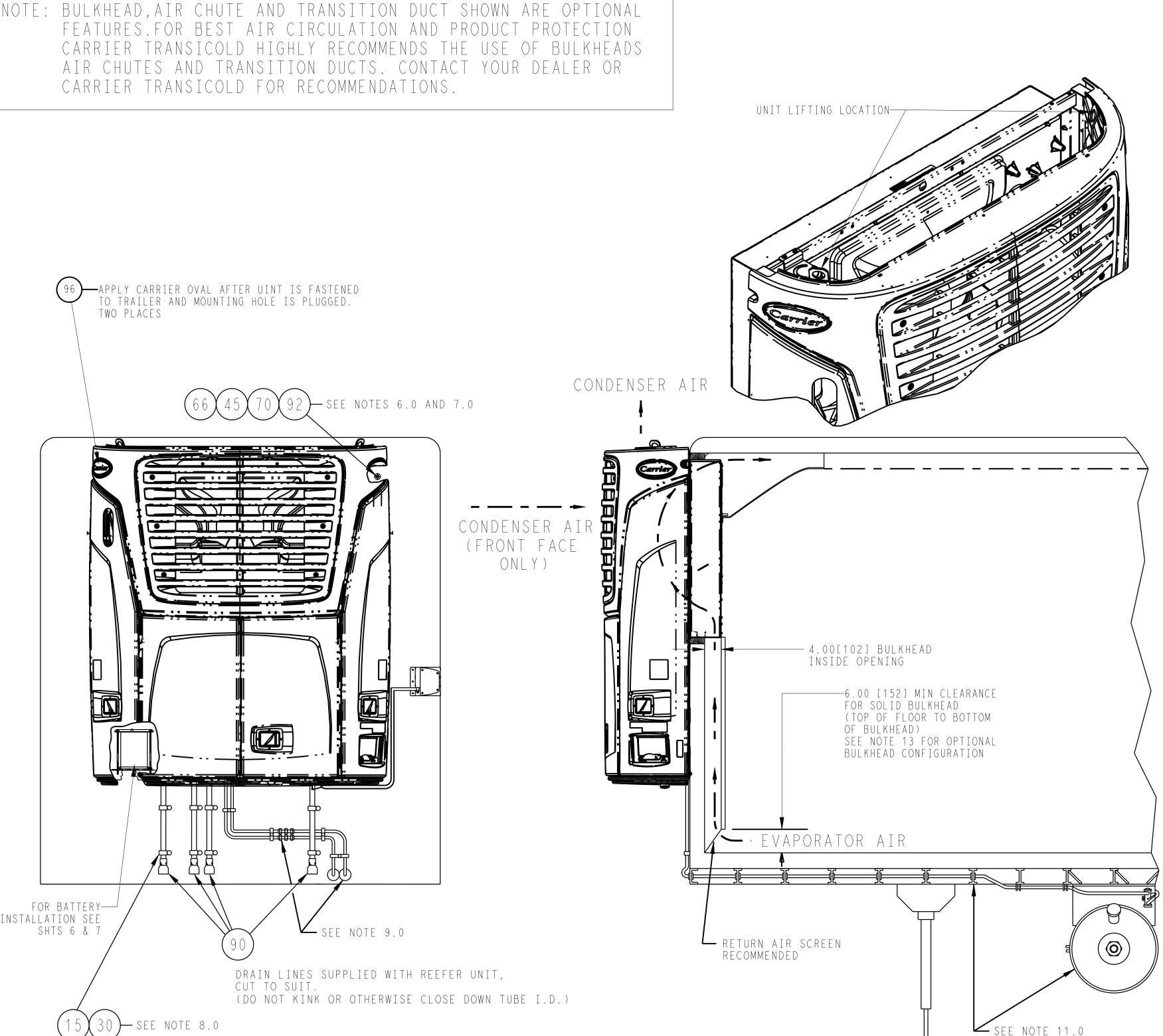
8.0 ROUTE DEFROST DRAIN HOSES DOWN THE FRONT OF THE TRAILER OR BOXCAR AND CLAMP TO FRONT WALL USING 2 CLAMPS (ITEM 15) AND 2 THREAD FORMING SCREWS (ITEM 30) FOR EACH DRAIN HOSE. CUT HOSE TO PROPER LENGTH (APPROXIMATELY 3.00[76.2] ABOVE 5+h-WHEEL PLATE ON TRAILER) AND INSTALL KAZOOS (ITEM 90) ON THE HOSES.

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

AFTER INSTALLATION

TITLE

- 10.0 PERFORM PRE-DELIVERY INSPECTION. COPIES OF COMPLETED CHECKLIST SHOULD BE SUPPLIED TO SELLING DEALER AND CUSTOMER.
- 11.0 OPERATE UNIT IN CONTINUOUS RUN WITH REAR DOORS OPEN (MANUAL) MODE. REFER TO THE PRE-DELIVERY INSPECTION FORM SUPPLIED WITH UNIT FOR THE RECOMMENDED LENGTH OF TIME. PERFORM FINAL INSPECTION ON UNIT. RUN- IN SET UP SHOULD BE "PER PDI SHEET".
- 12.0 IMPORTANT: PRIOR TO FINAL DELIVERY TO CUSTOMER, WARRANTY REGISTRA-TION 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.
- 13.0 OPTIONAL BULKHEAD CONFIGURATION: HOLE PATTERN OR OPEN AREA FOR RETURN AIR FLOW MUST TOTAL AT LEAST 2.75 SQ.FT. OF AIR PASSAGE. HOLE PATTERN OR OPEN AREA MUST BE RECESSED SO THAT CARGO LOADED AGAINST BULKHEAD WILL NOT OBSTRUCT AIR PASSAGE OPENINGS. PERFORATED BULKHEADS, THAT MEET THESE REQUIREMENTS, MAY BE INSTALLED TIGHT WITH FLOOR



C UPDATED SPEC 1.0 AND 6.0. 02 MAY 2025 NB ECN1195346 ZMG B UPDATED SPEC 1.0 & 7.0. ADDED SPEC 3.1. 27 OCT 2022 ZMG HWECN1161283 RC A UPDATED STEP 4.0 & 5.0. 72N0242P19 30 JUL 2019 LT-RP INITIAL RELEASE. 10SEP2018 KFV СK 72N0041P1 REVISION RECORD ENGR. NPCA NO. DATE ВҮ М.Е

THIRD ANGLE PROJECTION

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

INSTALLATION INSTRUCTIONS TRAILER: MUTI-TEMP VECTOR 8611MT

DRAWING NO. 98-02702 sheet 5 of

PART CLASSIFICATION: US EAR99

SUPERSEDES:

BATTERY INSTALLATION INSTRUCTIONS

SEE NEXT SHEET FOR PICTORIALS OR REFER TO BATTERY INSTALLATION DOCUMENT IN POLY BAG FASTENED TO BATTERY TRAY PLATE.

UNITS SUPPLIED WITH BATTERY INSTALLED

- 1.0 CUT WIRE TIE(S) THAT HOLD BATTERY 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.

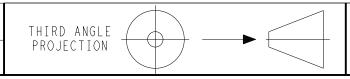
UNITS SUPPLIED WITHOUT BATTERY INSTALLED

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, ALWAYS ENSURE THAT THE BATTERY CHOSEN IS RATED AT 0°F (O DEGREES FAHRENHEÍT) AND NOT 0°C (O DEGREES CELSIUS) FAILURE TO USE THE PROPER BATTERY SIZE WILL RESULT IN REDUCED BATTERY LIFE AND A NO-START CONDITION. THE RECOMMENDED MAXIMIM BATTERY WEIGHT IS 80 LBS.
- 2.0 CUT WIRE TIE HOLDING THESE PARTS IN THE BATTERY TRAY AND REMOVE PARTS. PLACE BATTERY IN TRAY WITH POSITIVE (+) 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.
- 3.0 INSTALL SCREWS AND HOLD-DOWN CHANNEL USING PLAIN AND LOCK WASHERS AS SHOWN. SECURELY TIGHTEN THE SCREWS TO PREVENT MOVEMENT OF THE BATTERY.
- 4.0 POSITION TERMINAL COVERS SUPPLIED WITH CABLES OVER TERMINALS.

-	INITIAL RELEASE.	10SEP2018	KFV	CK		72N0041P18
SYM	REVISION RECORD	DATE	ВҮ	ENGR.	М.Е.	NPCA NO.



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

INSTALLATION INSTRUCTIONS

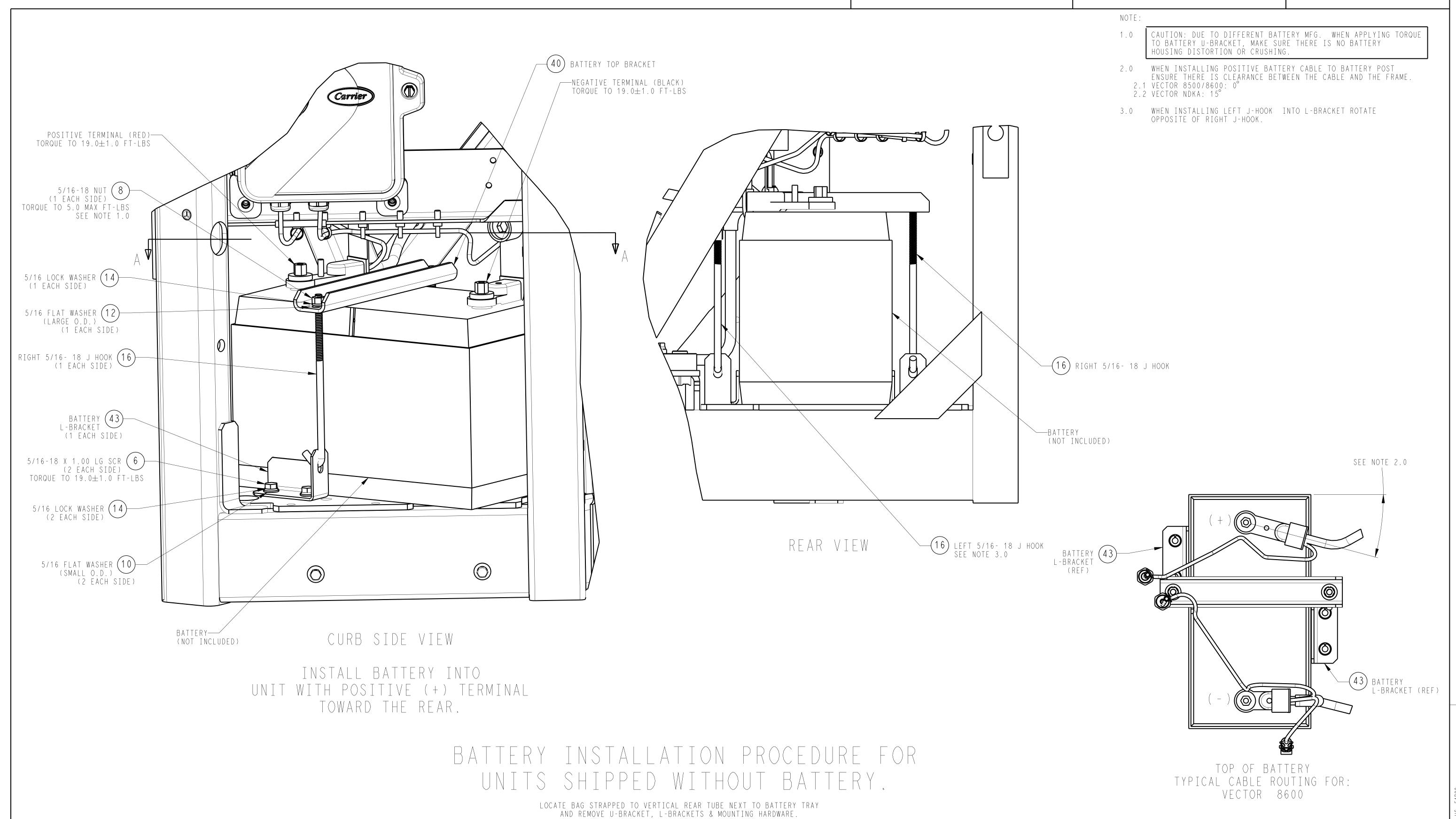
DRAWING NO. 98-02702 SHEET 6 OF

TRAILER: MUTI-TEMP VECTOR 8611MT SUPERSEDES:

Carrier Transicold Division Carrier Corporation P.O. Box 4805 Syracuse, New York 13221

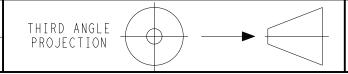
THIS DOCUMENT AND THE INFORMATION CONTAINED THEREIN IS PROPRIETARY TO CARRIER CORPORATION AND SHALL NOT BE USED OR DISCLOSED TO OTHERS, IN WHOLE OR IN PART, WITHOUT THE WRITTEN AUTHORIZATION OF CARRIER CORPORATION.

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



VIEW A-A BATTERY CABLE ARRANGEMENT.

INITIAL RELEASE. 10SEP2018 72N0041P1 KFV СK NPCA NO. REVISION RECORD ENGR. М.Е.



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

INSTALLATION INSTRUCTIONS TRAILER: MUTI-TEMP VECTOR 8611MT

DRAWING NO. 98-02702 sheet 7 of

PART CLASSIFICATION: US EAR99

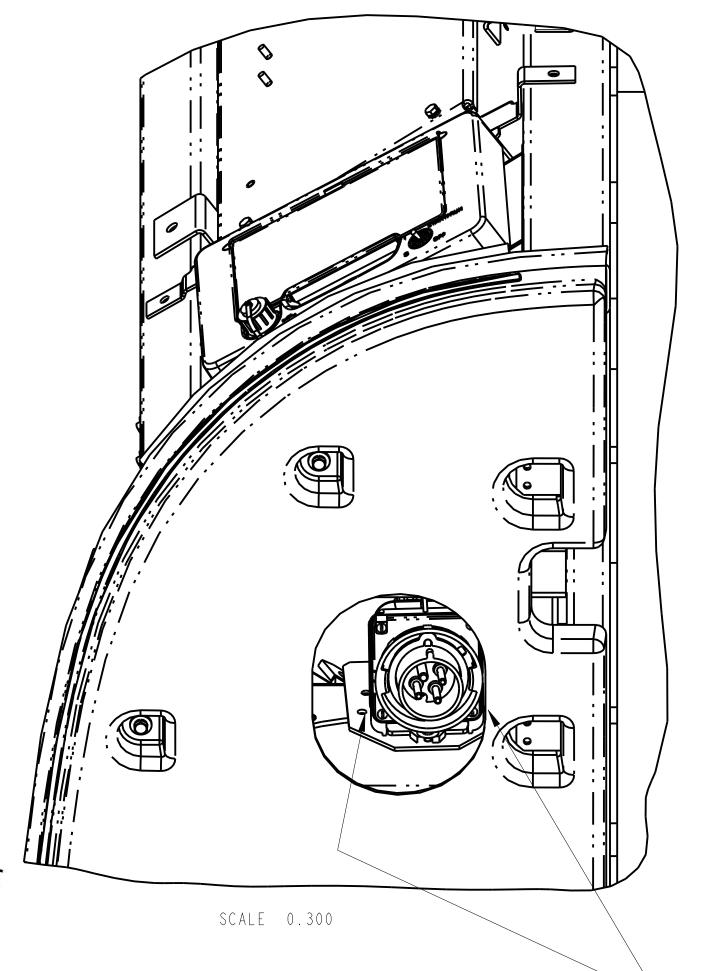
SUPERSEDES:

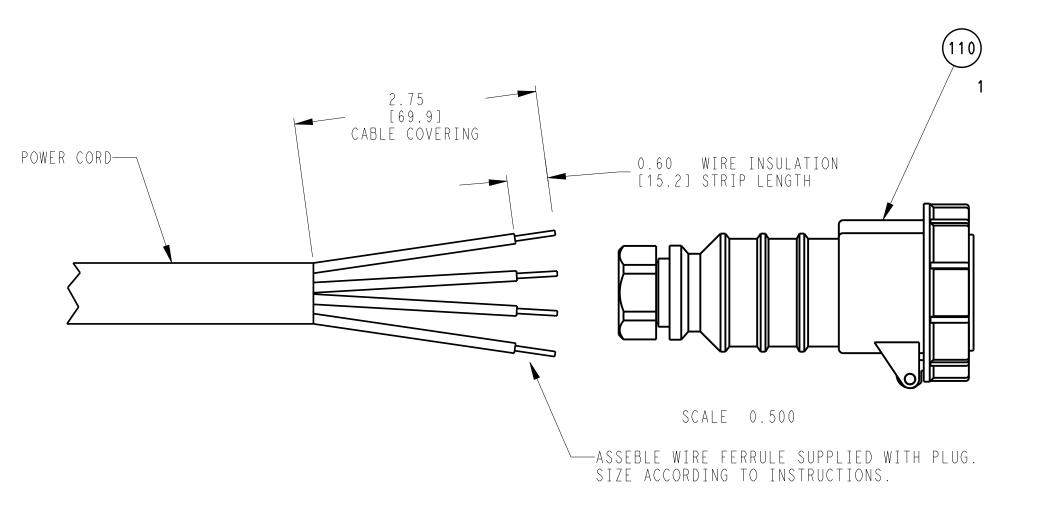
Electrical Specifications & Minimum Standby Infrastructure for Carrier Transicold Trailer units equipped with Standby

	Vector 8611 W/STBY
Operating Voltage	460V / 3ph / 60Hz
Full Load Amp Draw (FLA)	22 A
kVA	18.5
Locked Rotor Amp Draw (LRA)	90 A
Electrical Receptacle	IEC IP 67 pin & sleeve, 480V, 30A, 4
(installed on unit)	wire, 3 pole
Receptacle p/n	22-04166-01
Phase reversal	Automatic
Standby circuit breaker &	& cordset specifications
Standby cable type & gauge (min 50' long, up to 75' long)	SOOW, 600V, 90C, 10/4 (3ph + G)
Recommended external circuit breaker	30A
Connector p/n	22-02944-00

Minimum Requirements for Standby Infrastructure

- 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 earthing 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 cordsets 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.





WARNING:

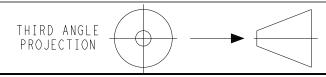
READ ENTIRE SUPPLIER DIRECTIONS SUPPLIED WITH PLUG BEFORE STARTING INSTALLATION.

PARTIAL LOWER ROADSIDE VIEW STANDBY PLUG MOUNTING

62 64 66

6)	Standby power cordsets between the circuit breaker and the refrigeration unit MUST be
252	constructed from 10/4 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.

-	INITIAL RELEASE.	10SEP2018	KFV	СК		72N0041P18
SYM	REVISION RECORD	DATE	ВҮ	ENGR.	M.E.	NPCA NO.



INSTALLATION INSTRUCTIONS TRAILER: MUTI-TEMP VECTOR 8611MT

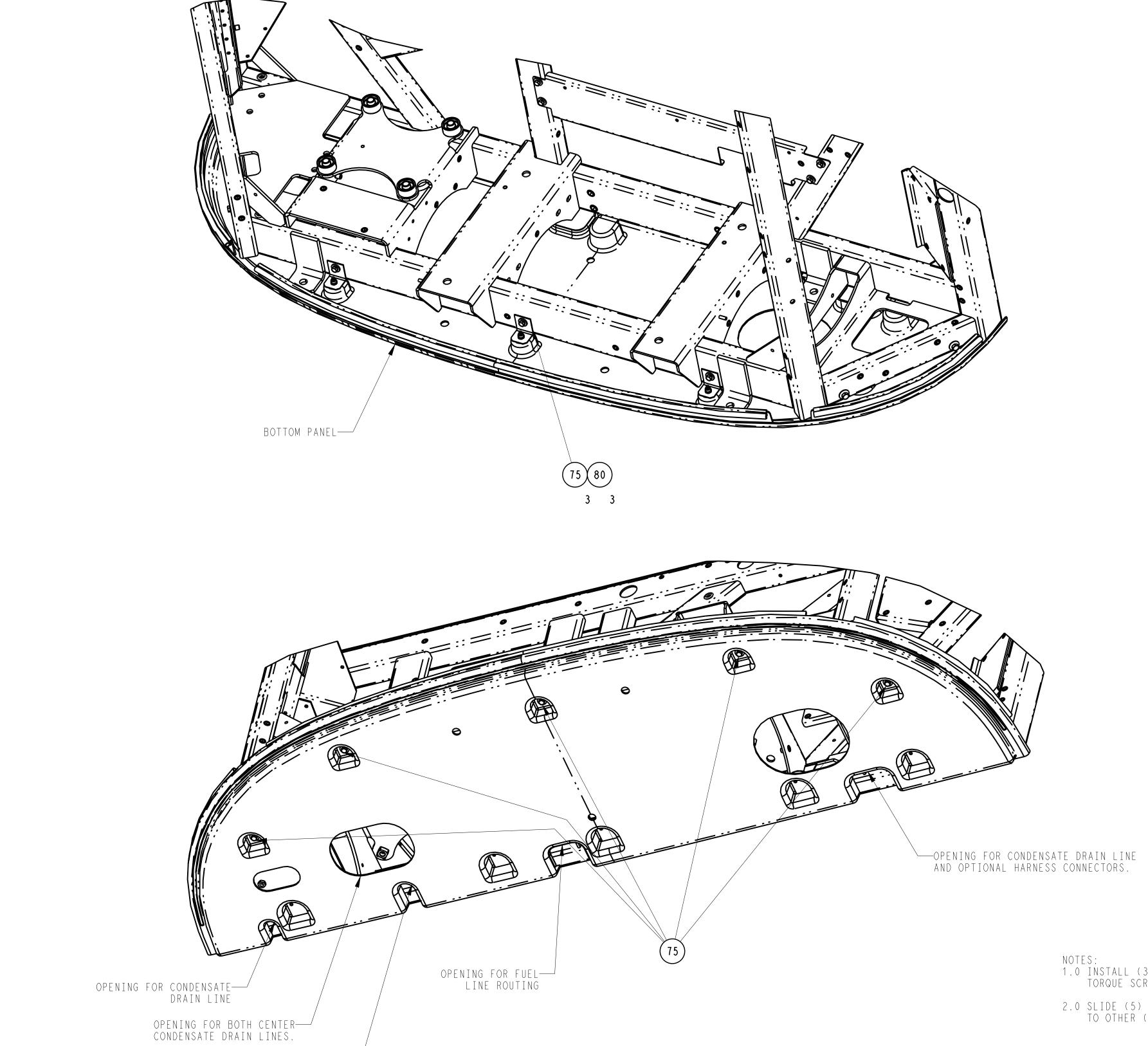
SUPERSEDES:

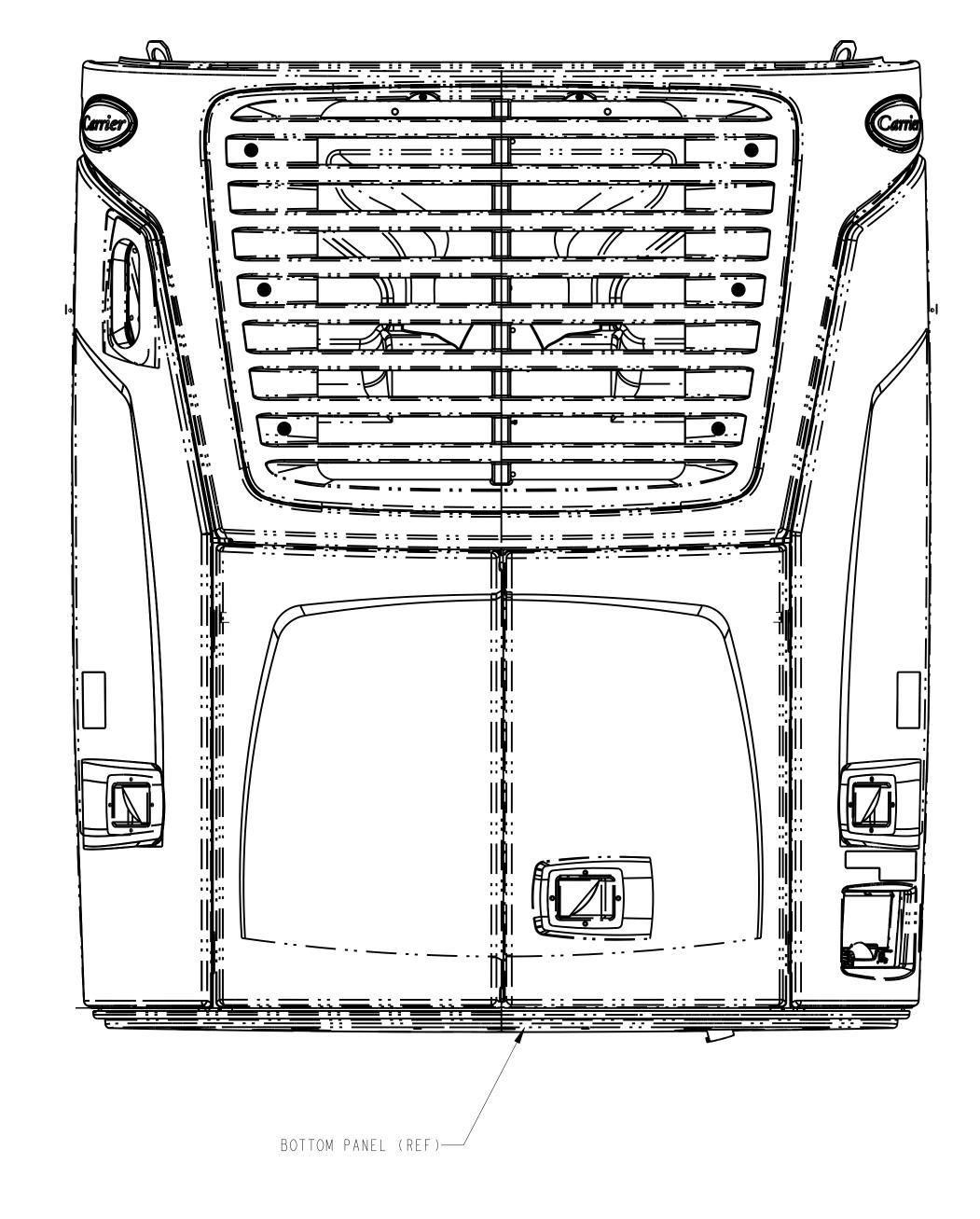
98-02702 SHEET 8 OF

PART CLASSIFICATION: US EAR99

PROPRIETARY TO CARRIER CORPORATION AND SHALL NOT BE USED OR DISCLOSED TO OTHERS, IN WHOLE OR IN PART, WITHOUT THE WRITTEN AUTHORIZATION OF CARRIER CORPORATION.

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





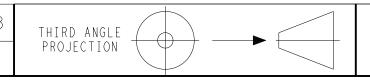
BOTTOM PANEL INSTALLATION

NOTES: 1.0 INSTALL (3) MOUNTING ANGLES (ITEM #80), WITH RIVNUTED FLANGE DOWN. TO FRAME USING SUPPLIED SCREWS (ITEM #75). TORQUE SCREW TO 96 IN-LBS, KEEPING THE BOTTOM OF THE ANGLES FLUSH AND PARALLEL TO THE BOTTOM OF THE FRAME.

2.0 SLIDE (5) OPENINGS IN THE BOTTOM PANEL OVER THE (5) REAR MOUNTING ANGLES ON THE FRAME AND SECURE BOTTOM PANEL TO OTHER (5) MOUNTING ANGLES USING SUPPLIED SCREWS (ITEM #75). TORQUE SCREWS SECURELY TO 96 IN-LBS.

-	INITIAL RELEASE.	10SEP2018	KFV	CK		72N0041P18
SYM	REVISION RECORD	DATE	ВҮ	ENGR.	M . E .	NPCA NO.

OPENING LIFT GATE——/
BATTERY CABLE OPTION



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

INSTALLATION INSTRUCTIONS
TRAILER: MUTI-TEMP VECTOR 8611MT

DRAWING NO. 98-02702 sheet 9 of

PART CLASSIFICATION: US EAR99 SUPERSEDES: