Carrier TRANSICOLD

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

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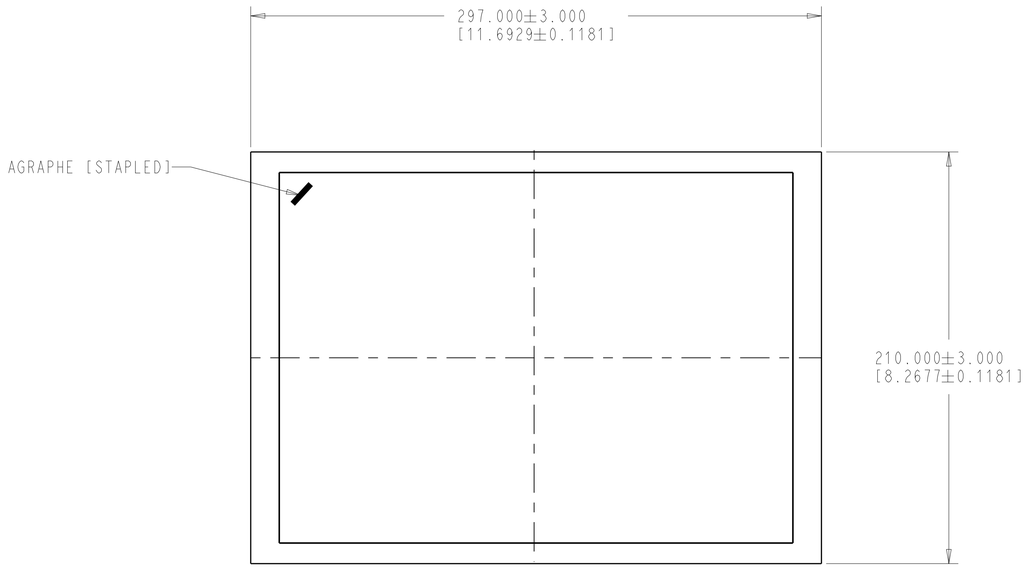

NUMERO DE CODE CTD : 98-60812-00
CTD PART NO.: 98-60812-00

FOURNISSEUR: OU EQUIVALENT AGREE PAR LE SERVICE ENGINEERING
[SUPPLIER: OR ENGINEERING APPROVED EQUIVALENT.]

NUMERO DE PIECE FOURNISSEUR: NUMERO DE CODE CTD.
[SUPPLIER PART NO.: SAME AS CTD PART NUMBER.]

Ⓖ MODELE INITIAL : VECTOR HE 17/19

SPECIFICATIONS:
[SPECIFICATIONS:]

1.0 MATIERE: PAPIER.
[MATERIAL: PAPER.]

2.0 EPAISSEUR: 80 GR/M2.
[THICKNESS: 80 PER SQUARE METER.]

3.0 COULEUR MATIERE: BLANC.
[MATERIAL COLOR: WHITE.]

4.0 COULEUR IMPRESSION: NOIRE RECTO VERSO.
[PRINTING COLOR: BLACK RECTO VERSO]

5.0 MARQUAGE: LE NUMERO DE CODE CTD DOIT ETRE MARQUE SUR L'EMBALLAGE.
[MARKING: CTD PART NO.(SEE CHART) INCLUDING REVISION LETTER MUST BE MARKED ON SHIPPING CONTAINER. IN ADDITION, THE PART(S) SHIPPING CONTAINER(S) MUST BE MARKED IN ACCORDANCE WITH U.S. CODE OF FEDERAL REGULATION (CFR) 19-S,PARTS 134, COUNTRY OF ORIGIN MARKING REQUIREMENTS.]

6.0 EMBALLAGE:L'EMBALLAGE DOIT CORRECTEMENT,PROTEGER LA MARCHANDISE DES DOMAGES DE TRANSPORT,DE LA SALETE ET DES ELEMENTS CORROSIFS.
[PACKAGING:MUST ADEQUATELY PROTECT DECAL FROM SHIPPING DAMAGE, DIRT AND CORROSIVES ELEMENTS.]

7.0 PROPRETE: LE DOCUMENT DOIT ETRE PROPRE ET SANS CONTAMINANTS
[CLEANLINESS: THE DOCUMENT MUST BE CLEAN AND FREE OF CONTAMINANTS.]

SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.
G	UPDATED NOTE. UPDATED THIS INSTRUCTION.	27 MAY 2024	LT-AR			1179458

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS SHOWN ARE IN MILLIMETERS, WITH IMPERIAL CONVERSIONS IN [INCHES]

TITLE
INSTALLATION INSTRUCTIONS
VECTOR HE19/HE17

DRAWING NO. 98-60812
SHEET - OF -

REV G

SUPERSEDES:

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

98-60812-CO

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PART NO.	DESCRIPTION	WEIGHT (WITH DOORS)
98-60812-00	VECTOR HE 19	805 KG [1774.72 LBS]
	VECTOR HE 19 MT 2 COMPT	815 KG [1796.76 LBS]
	VECTOR HE 19 MT 3 COMPT	825 KG [1818.81 LBS]
	VECTOR HE 19 CITY MONO	860 KG [1895.97 LBS]
	VECTOR HE 19 CITY MT 2 COMPT	870 KG [1918.01 LBS]
	VECTOR HE 19 CITY MT 3 COMPT	880 KG [1940.06 LBS]
	VECTOR HE 19 SILENT MONO	840 KG [1851.08 LBS]
	VECTOR HE 19 SILENT MT 2 COMPT	850 KG [1873.02 LBS]
	VECTOR HE 19 SILENT MT 3 COMPT	860 KG [1895.97 LBS]
	VECTOR HE 19 E SILENT MONO	541 KG [1193 LBS]
	VECTOR HE 19 E SILENT MT 2 COMPT	551 KG [1214 LBS]
	VECTOR HE 19 E SILENT MT 3 COMPT	561 KG [1237 LBS]
	VECTOR HE 17	720 KG [1587 LBS]
	VECTOR HE 17 SILENT	755 KG [1664 LBS]
	VECTOR HE 17 CITY	XXX KG [XXXX LBS]

WARNING
READ ALL NOTES PRIOR TO INSTALLATION

1-INSTALLATION OF THIS REFRIGERATION UNIT MUST BE PERFORMED BY A QUALIFIED TECHNICIAN. ONETECHNICIAN IS NEEDED TO INSTALL THE UNIT.

2-SAFETY:

2-1 PERSONNAL PROTECTIVE EQUIPEMENT (PPE) BEFORE INSTALLING THIS REFRIGERANT UNIT, ALWAYS USE TOOLS AND PERSONAL PROTECTIVE EQUIPMENT IN ACCORDANCE WITH CARRIER LOG-OUT/TAG-OUT PROCEDURE(CTE MANDATORY FATALITY PREVENTION REVIEW: LO/TO AND ELECTRICITY).

2.2 RISKS:

2.3 UNIT HANDLING:

ALL LIFTING TOOLS MUST BE COMPLIANT WITH THE LOCAL REGULATION AND BE ADAPTED TO WEIGHTS TO BE LIFTED.

2-4 WORKING AT HEIGHT

USE A PLATFORM COMPLIANT WITH THE REGULATION. IF NO PLATFORM AVAILABLE USE SPECIFIC ADAPTED TOOLS.

2-5 BATTERY
NEVER LEAVE A UNIT MORE THAN ONE MONTH WITHOUT RUNNING ; IN CASE OF LONG STANDSTILL, CHARGE THE BATTERY INDEPENDENTLY ; BEFORE PERFORMING ANY WELDING ON THE CHASSIS, TAKE CARE TO DISCONNECT THE BATTERY FROM THE UNIT AND THE VEHICLE AS WELL AS FROM THE ALTERNATOR AND ANY OTHER ELECTRONIC SYSTEM (MICROPROCESSOR).

NEVER TRY TO START THE VEHICLE WITH A BOOSTER BECAUSE THIS COULD DAMAGE THE ELECTRONIC COMPONENTS IN THE UNIT OR ON THE VEHICLE;

3-TRUCK BODY

3-1 THE TRUCK STRUCTURE MUST BE EVALUATED BY THE TRUCK MANUFACTURER TO DETERMINE ITS ABILITY TO WITHSTAND THE LOADS IMPOSED BY THE UNIT OVER ITS SERVICE LIFE. CARRIER TRANSICOLD DOES NOT CONVEY ANY ENDORSEMENT OR WARRANTY FOR THE TRUCK'S STRUCTURAL INTEGRITY.
3-2 UNIT MOUNTING SURFACES OF THE TRUCK THAT CONTACT THE UNIT MOUNTING PADS MUST BE UNI-PLANAR AND PARALLEL TO WITHIN 2MM [0.12] TO PREVENT DISTORTION OF THE UNIT AND/OR TRAILER ;
3-3 ALL DIMENSIONS SHOWN ARE MILLIMETERS, WITH IMPERIAL CONVERSIONS IN [INCHES].

4- UNIT MODIFICATION:
NO MODIFICATION ON THE UNIT CAN BE REALIZED WITHOUT THE PRIOR WRITTEN CONSENT FROM CARRIER TRANSICOLD INDUSTRIES (ELECTRICAL, MECHANICAL... Non exhaustive list.

5- FOR ALL INTERVENTIONS SEE ☐INSTRUCTIONS 98-60810-00 : GOOD PRACTICE GUIDE FOR ELECTRICAL HARNESS INSTALLATION OR INTERVENTION».

** ATTENTION INSTALLER **

READ ALL NOTES PRIOR TO INSTALLATION

NOTES:

TIME ESTIMATED FOR INSTALLATION OF UNIT ALONE: 3.0 HRS

1.0 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 TRANSICOLD DOES NOT CONVEY ANY ENDORSEMENT OR WARRANTY FOR THE TRAILER'S STRUCTURAL INTEGRITY.

WEIGHT: SEE CHART (BATTERY INCLUDED)

2.0 UNIT MOUNTING SURFACES OF THE TRAILER THAT CONTACT THE UNIT MOUNTING PADS MUST BE UNI-PLANAR TO WITHIN $^{3mm}_{[0.12]}$ TO PREVENT DISTORTION OF THE UNIT AND/OR TRAILER.

3.0 TRAILER SURFACES THAT CONTACT THE UNIT MOUNTING GASKET SHOULD NOT PROTRUDE MORE THAN $^{5mm}_{[0.19]}$ ABOVE THE PLANE DEFINED BY THE MOUNTING PAD SURFACES TO ENSURE PROPER AIR SEAL.

4.0 ALL DIMENSIONS SHOWN ARE MILLIMETERS, WITH IMPERIAL CONVERSIONS IN [INCHES].

5.0 APPLY SERVICE DECAL (ITEM 125) TO UNIT IN LOCATION THAT IS CONVENIENT FOR IT TO BE SEEN AND READ.

⚠6.0 EVAP FAN GRILL MUST STAY IN PLACE EVEN WHEN AIR DUCT COLLECTORS ARE MOUNTED BY THE BODYBUILDER.

7.0 WARNING: SPECIAL CARE IS REQUIRED WHEM RECLAIMING R452A PRIOR TO BRAZING WORK.REFER TO SERVICE PROCEDURE.

Ⓒ

CONTENTS	SHEET

SEE SEPARATE PARTS LIST

SHEET INDEX	REV	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.
G	UPDATED TABLE CONTENTS. ADDED SHEET 2. RENUMBERED ALL SHEETS. UPDATED SHEET INDEX. SEE ALL SHEETS.	27 MAY 2024	LT-AR			1179458

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS SHOWN ARE IN MILLIMETERS, WITH IMPERIAL CONVERSIONS IN [INCHES]

TITLE: INSTALLATION INSTRUCTIONS
VECTOR HE19/HE17

DRAWING NO. 98-60812 SHEET 1 OF 15

REV G

SUPERSEDES:

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

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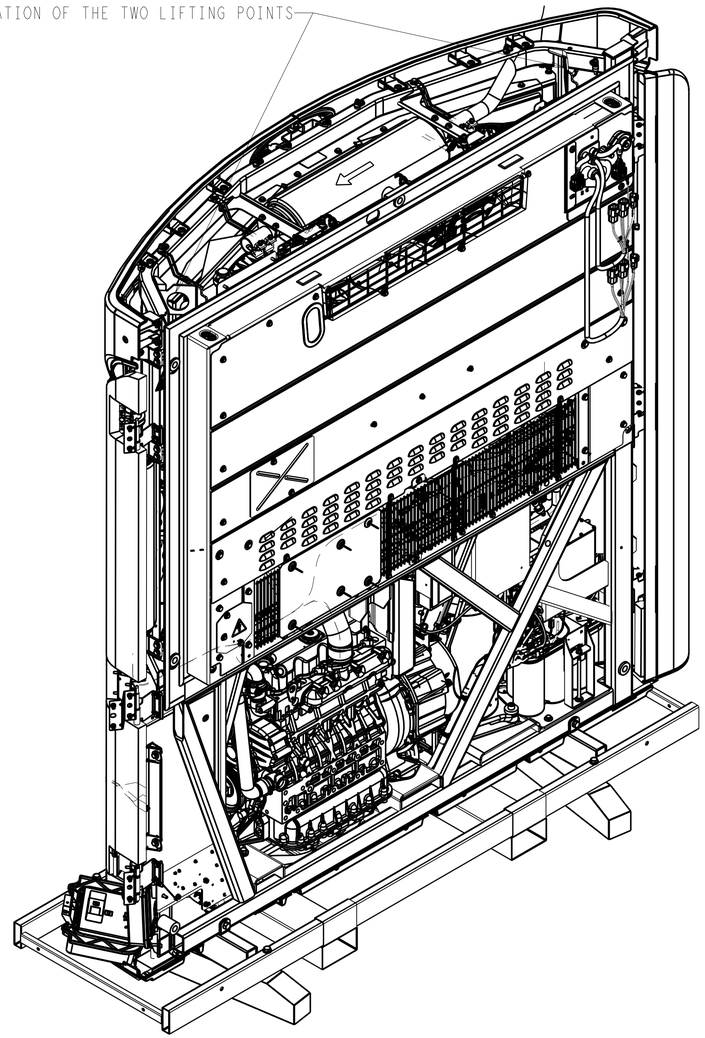
PALLET DISASSEMBLY SAFETY RULES

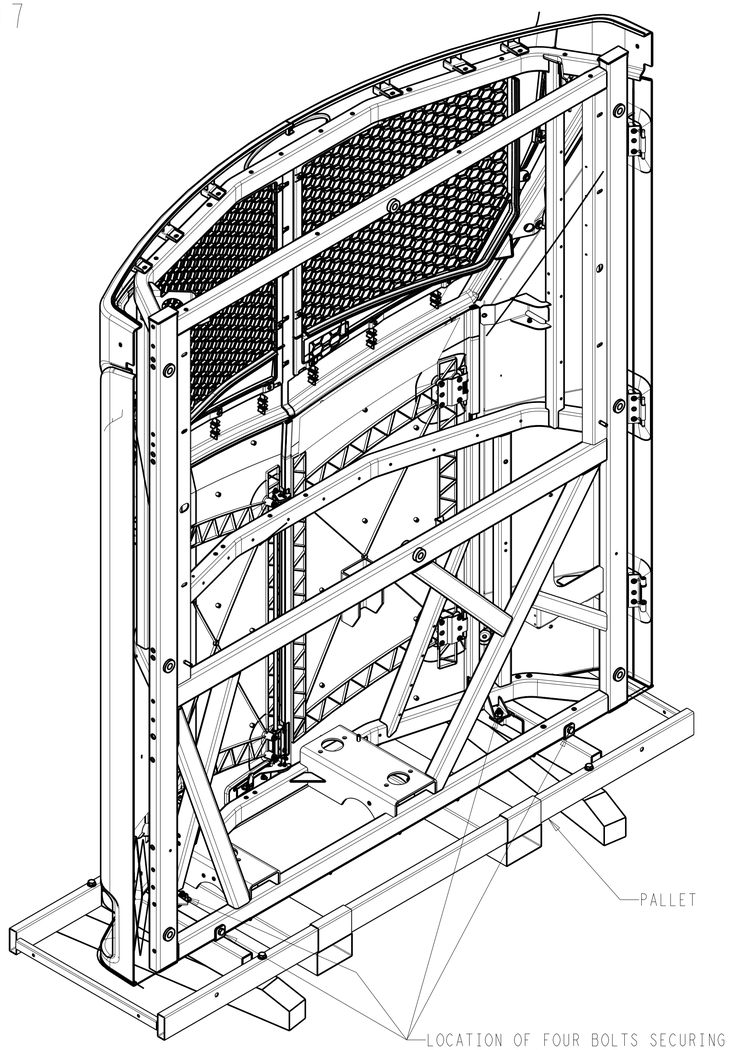
** ATTENTION INSTALLER **

BEFORE STARTING TO DISASSEMBLE THE UNIT FROM ITS PALLET, BE CAREFUL TO :

1.0 SECURE THE PALLET TO MAKE SURE IT WON'T FALL EITHER BY OPERATING ON THE FLOOR, EITHER BY USING AN APPROPRIATE LIFTING TABLE
2.0 ENSURE THAT THE UNIT IS HELD BY ITS MOUNTING POINTS AND AN APPROPRIATE LIFTING TOOL
3.0 ENSURE THAT THE FOUR BOLTS HAVE BEEN REMOVED BEFORE LIFTING THE UNIT.
    3.1 THE UNIT CAN BE LIFTED BY THE LIFTING POINTS ONLY IF THE FOUR BOLTS ARE REMOVED.
    3.2 THE UNIT CAN BE LIFTED WITH A FORKLIFT ONLY IF THE FOUR BOLTS OF THE PALLET ARE IN PLACE AND TIGHTENED.

HE19 AND HE17





SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.
G	ADDED THIS SHEET.	27 MAY 2024	LT-AR			1179458

THIRD ANGLE PROJECTION

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TITLE: INSTALLATION INSTRUCTIONS
VECTOR HE19/HE17

DRAWING NO. 98-60812 SHEET 2 OF

REV G

SUPERSEDES:

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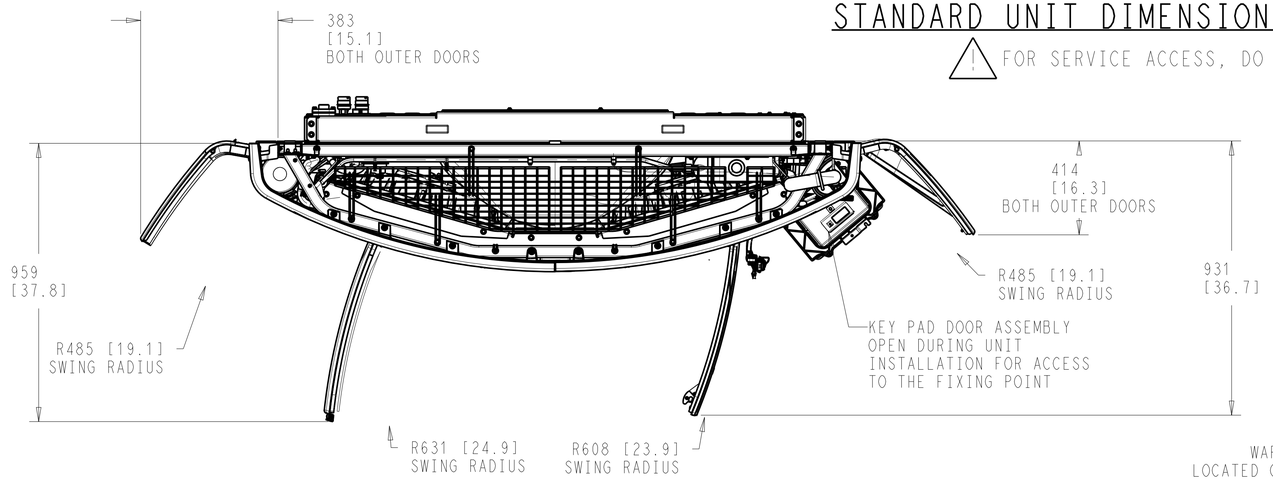
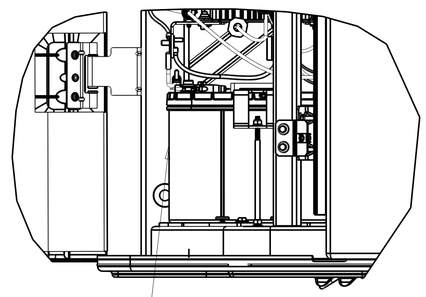
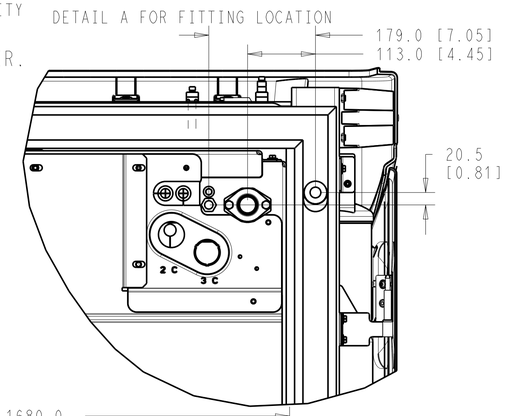
STANDARD UNIT DIMENSION INFORMATION

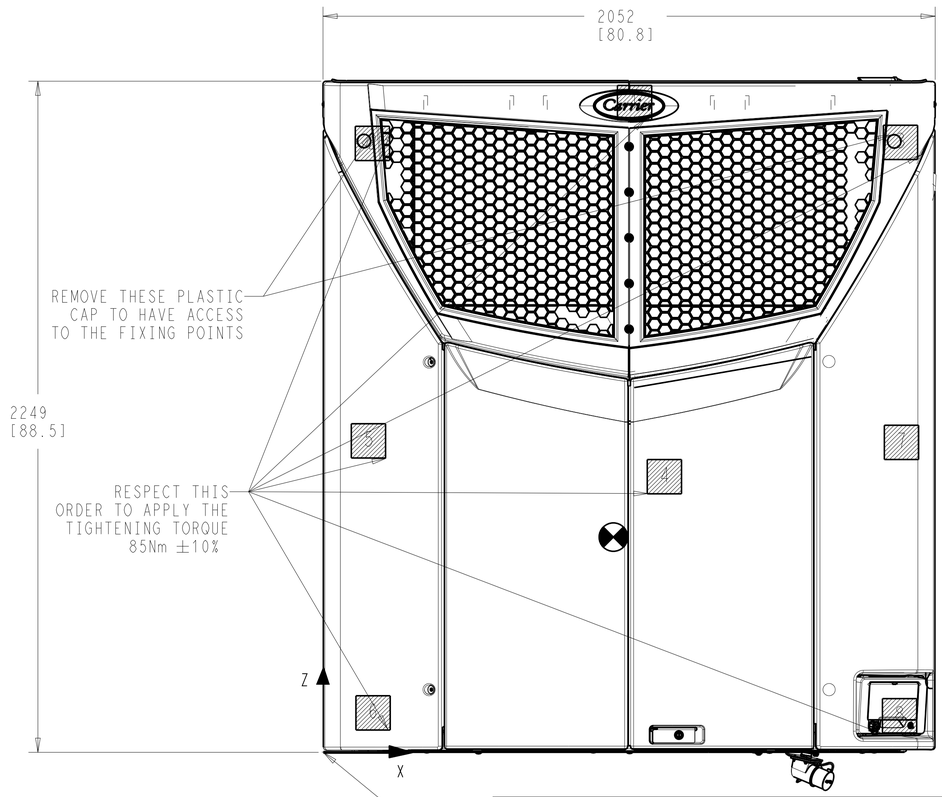
UNIT CENTER OF GRAVITY

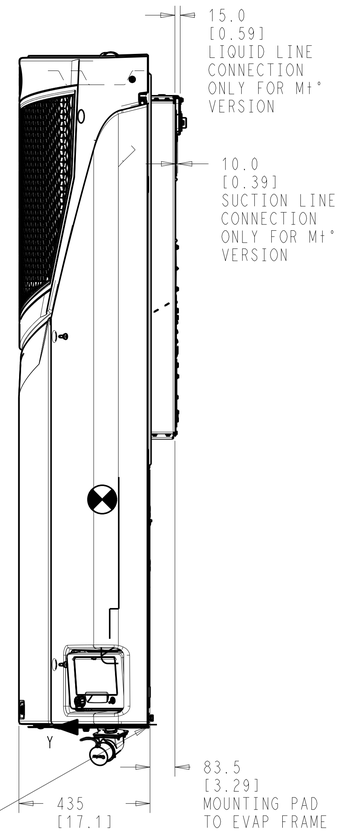
⚠ FOR SERVICE ACCESS, DO NOT LIMIT OPENING OF UPPER DOORS WITH BUMPER.

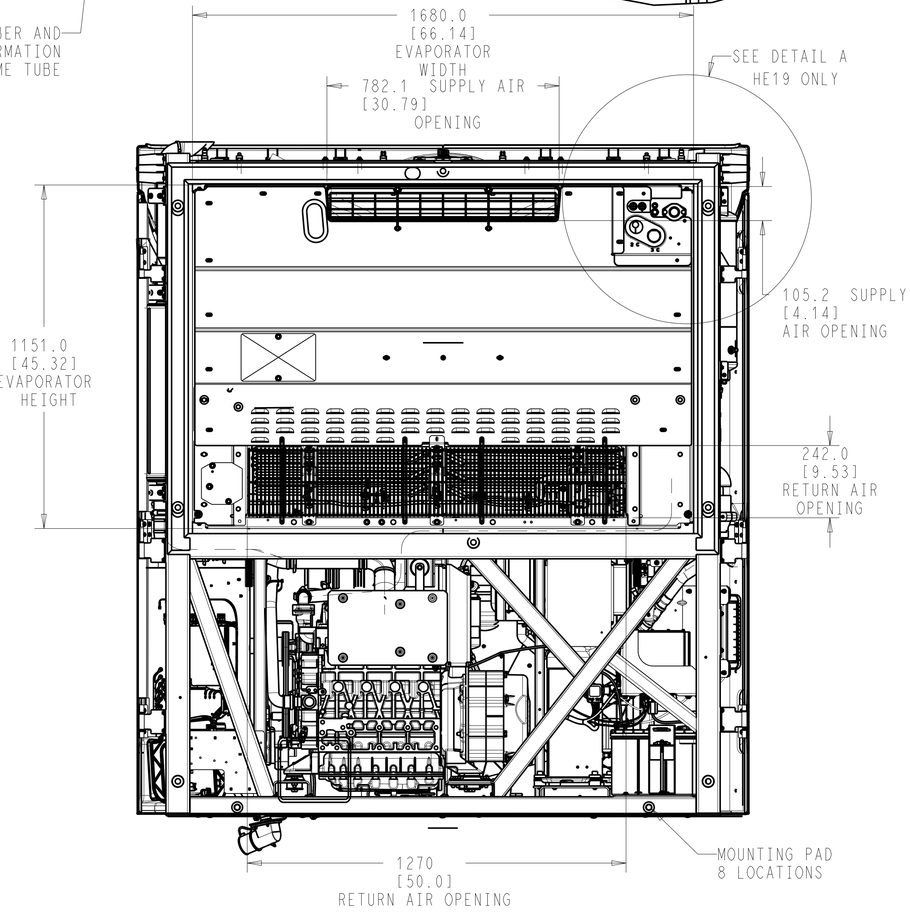












GRAVITY CENTER COORDINATES				
	UNIT	X	Y	Z
VECTOR HE19	SINGLE TEMP& MULTITEMP	992[39.1]	162[6.4]	812[31.9]
	CITY	1039[40.9]	151.5[6.0]	795[31.3]
VECTOR HE17	SINGLE TEMP	997.9[39.3]	212[8.4]	1269[50.0]

SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.
G	THIS SHEET 3 WAS SHEET 2.	27 MAY 2024	LT-AR			1179458

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TITLE: INSTALLATION INSTRUCTIONS
VECTOR HE19/HE17

DRAWING NO. 98-60812
SHEET 3 OF

REV G

SUPERSEDES:

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

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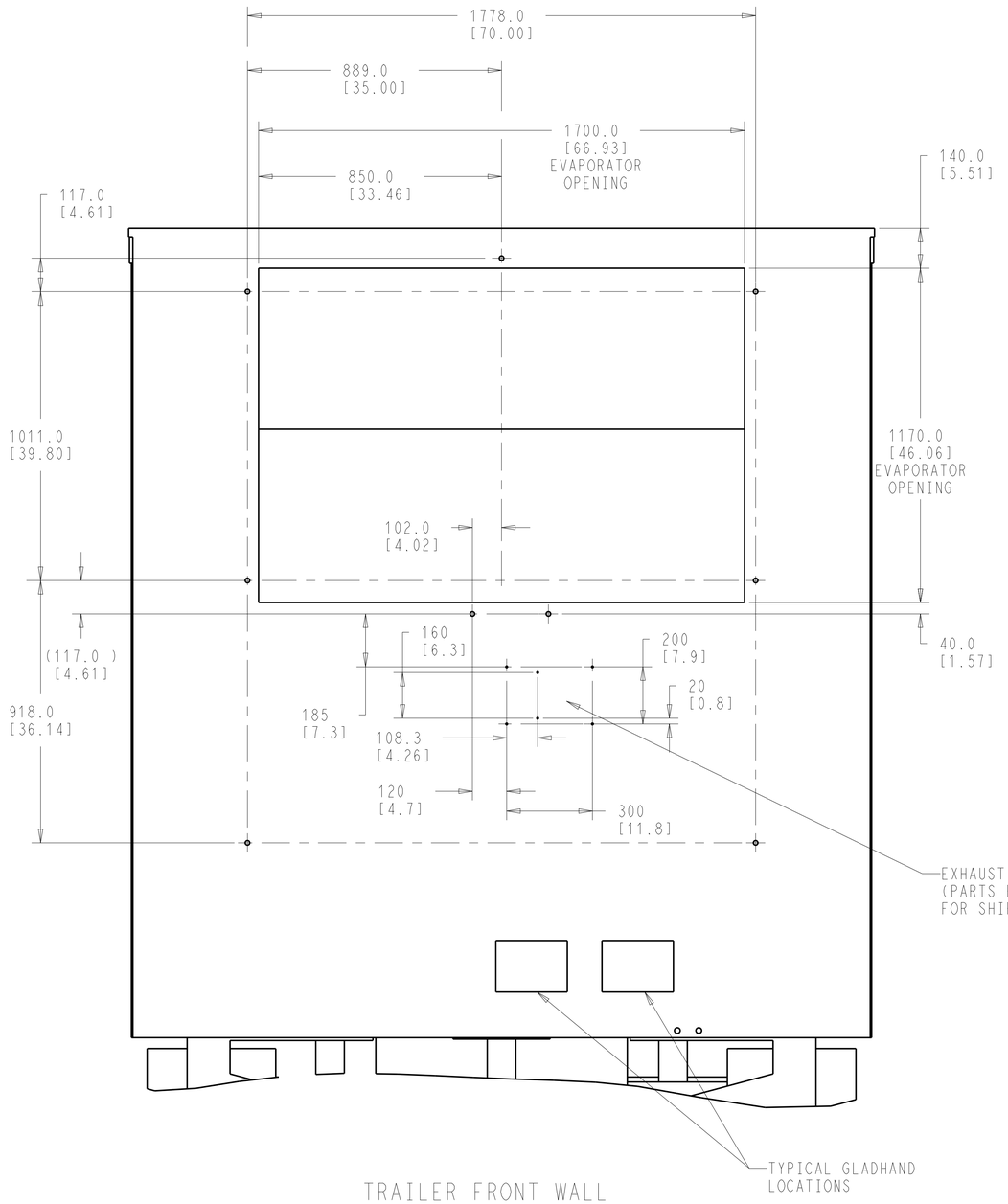
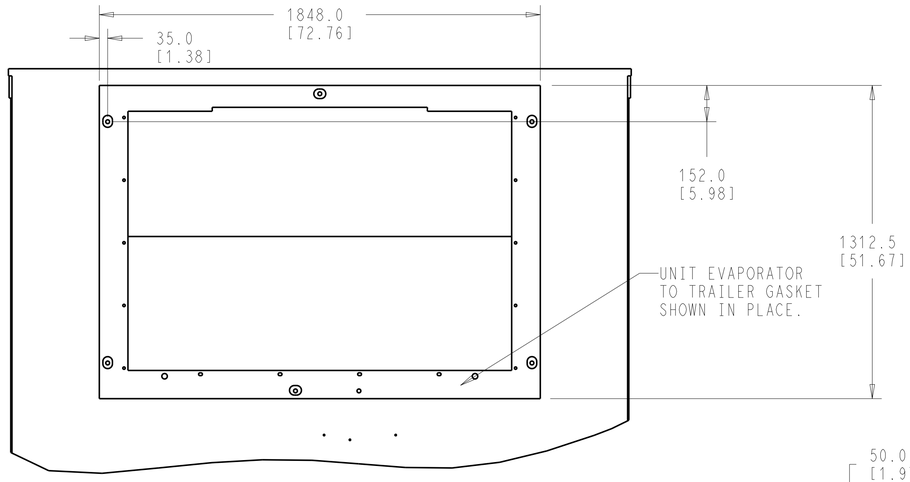
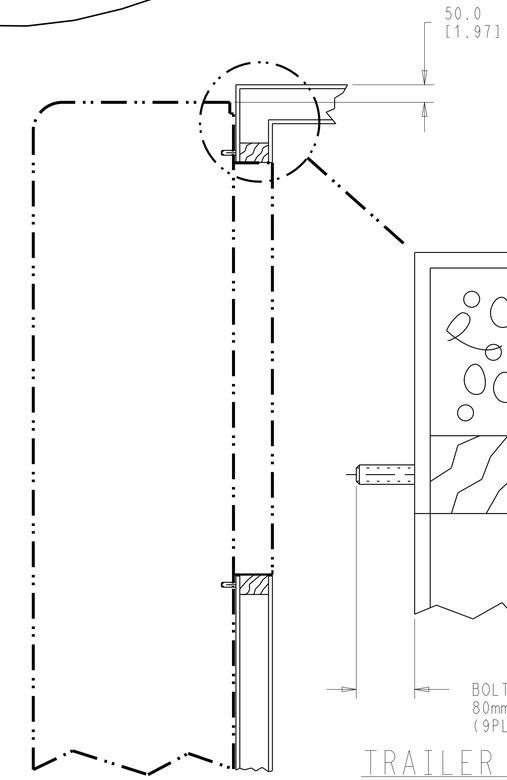


TRAILER FRONT WALL

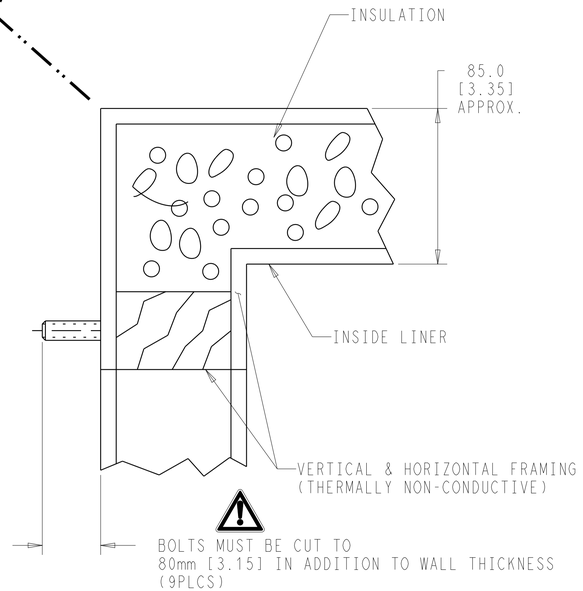
HE19



TRAILER FRONT WALL
WITH UNIT GASKET
IN PLACE.



VERSION STANDARD



TRAILER SIDE VIEW
(NOT TO SCALE)

TRAILER BODY PREPARATION

CAUTION: UNIT MOUNTING SURFACES OF TRAILER THAT CONTACT THE UNIT MOUNTING PADS MUST BE UNI-PLANER TO WITHIN 3.0mm [0.12] TO PREVENT DISTORTION OF UNIT AND/OR TRAILER.

CAUTION: TRAILER SURFACES THAT CONTACT THE UNIT MOUNTING GASKET SHOULD NOT PROTRUDE MORE THAN 5.0mm [0.19] ABOVE THE PLANE DEFINED BY THE MOUNTING PAD SURFACES TO ENSURE PROPER AIR SEAL.

SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.
G	THIS SHEET 4 WAS SHEET 3.	27 MAY 2024	LT-AR			1179458

THIRD ANGLE PROJECTION

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TITLE: INSTALLATION INSTRUCTIONS
VECTOR HE19

DRAWING NO. 98-60812 SHEET 4 OF

REV G

SUPERSEDES:

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

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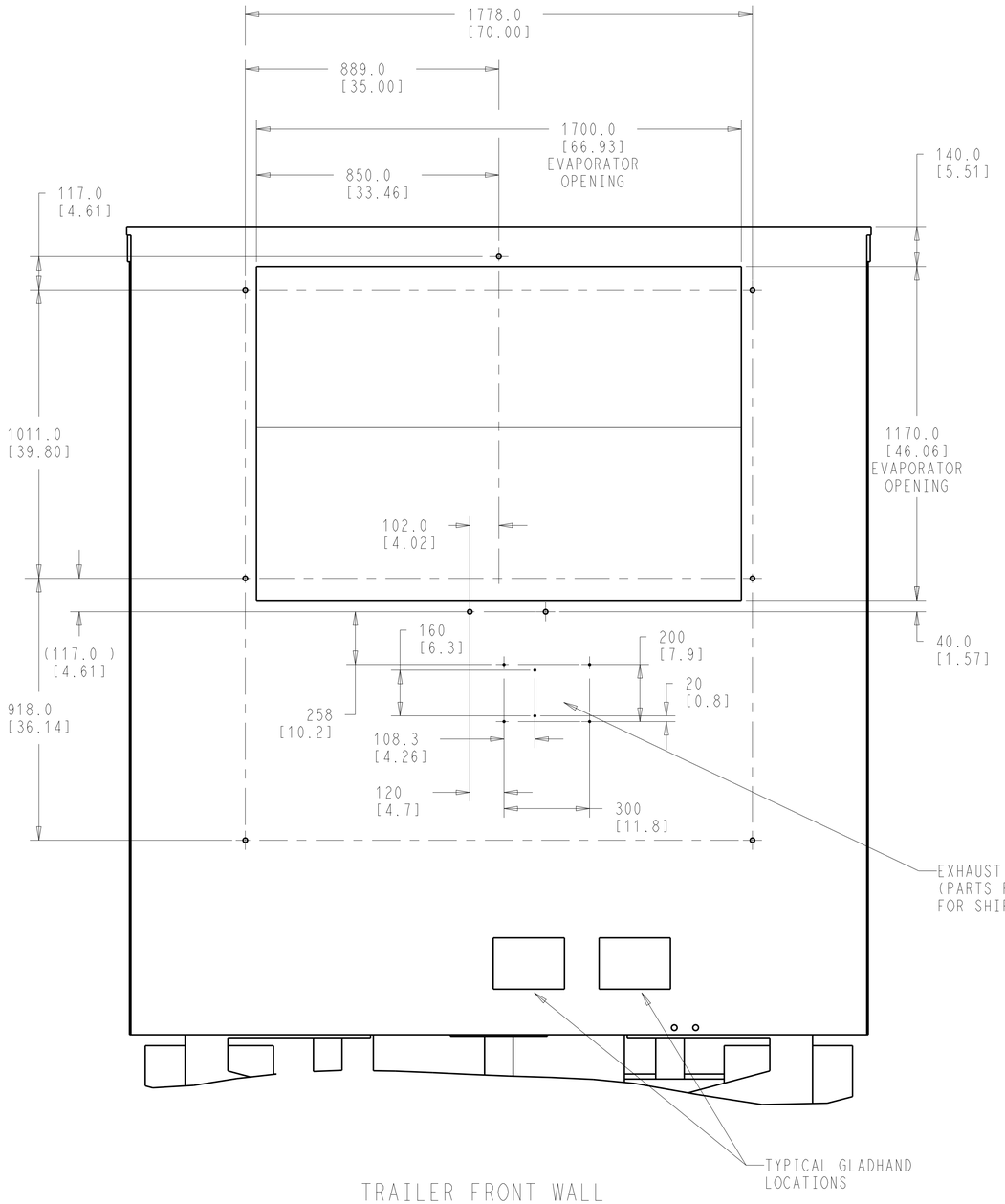
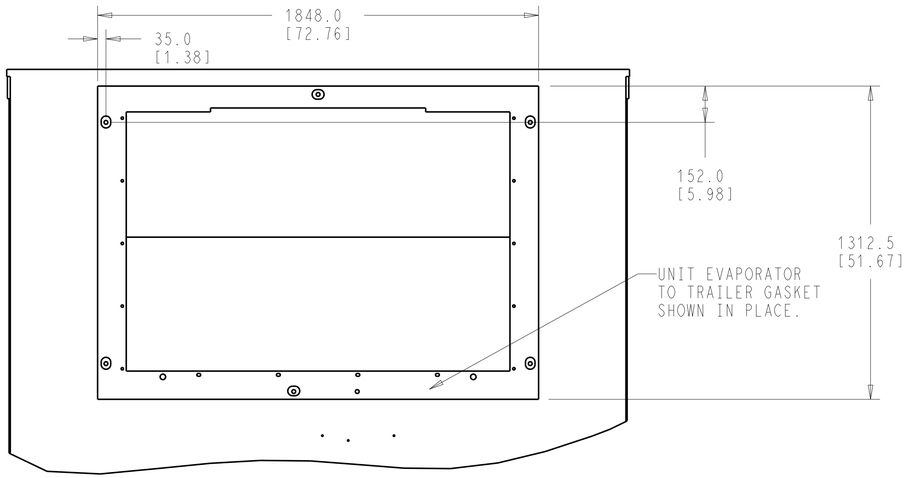
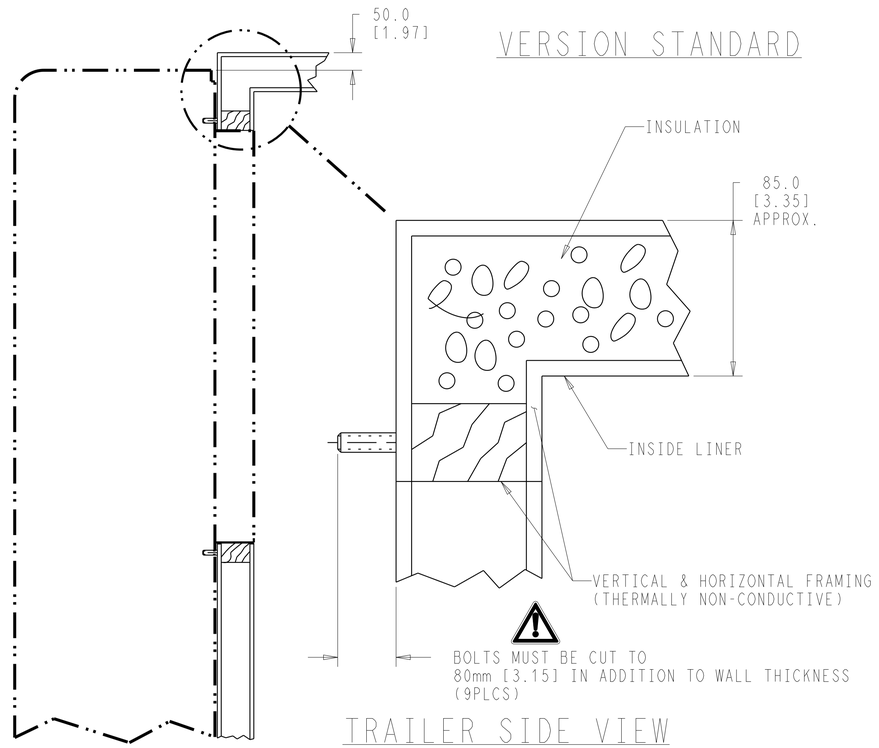


TRAILER FRONT WALL

HE17



TRAILER FRONT WALL
WITH UNIT GASKET
IN PLACE.



VERSION STANDARD

TRAILER SIDE VIEW
(NOT TO SCALE)

TRAILER BODY PREPARATION

CAUTION: UNIT MOUNTING SURFACES OF TRAILER THAT CONTACT THE UNIT MOUNTING PADS MUST BE UNI-PLANER TO WITHIN 3.0mm [0.12] TO PREVENT DISTORTION OF UNIT AND/OR TRAILER.

CAUTION: TRAILER SURFACES THAT CONTACT THE UNIT MOUNTING GASKET SHOULD NOT PROTRUDE MORE THAN 5.0mm [0.19] ABOVE THE PLANE DEFINED BY THE MOUNTING PAD SURFACES TO ENSURE PROPER AIR SEAL.

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G	THIS SHEET 5 WAS SHEET 4.	27 MAY 2024	LT-AR			1179458

THIRD ANGLE PROJECTION

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TITLE: INSTALLATION INSTRUCTIONS
VECTOR HE17

DRAWING NO. 98-60812 SHEET 5 OF

REV G

SUPERSEDES:

PART CLASSIFICATION: US

DRAWING CLASSIFICATION: US EAR99

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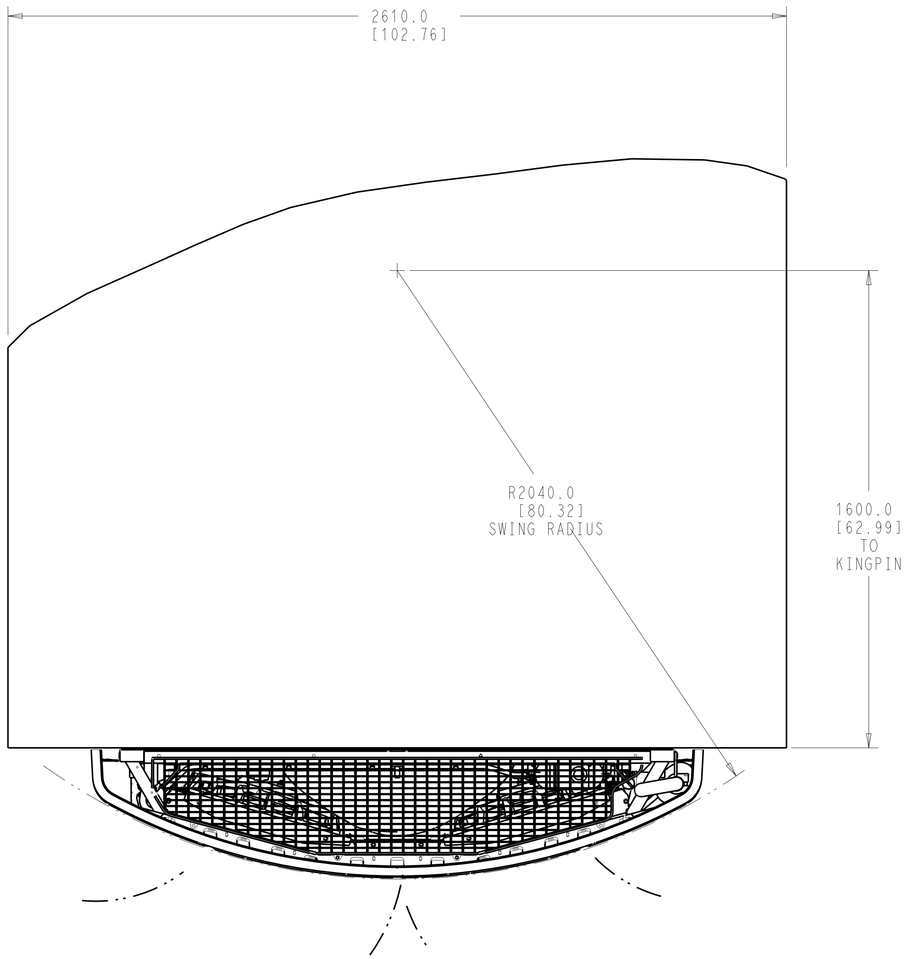

SWING RADIUS
SCALE 0.100

SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.
G	THIS SHEET 6 WAS SHEET 5.	27 MAY 2024	LT-AR			1179458

THIRD ANGLE PROJECTION

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TITLE
INSTALLATION INSTRUCTIONS
VECTOR HE19/HE17

DRAWING NO. 98-60812
SHEET 6 OF

REV G

SUPERSEDES:

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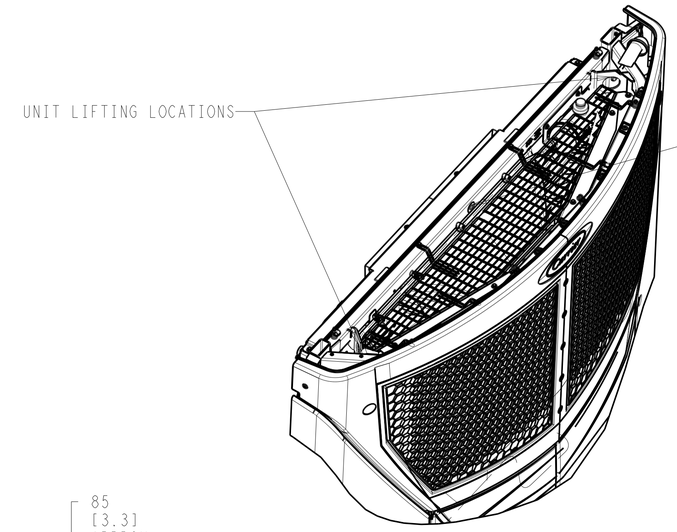
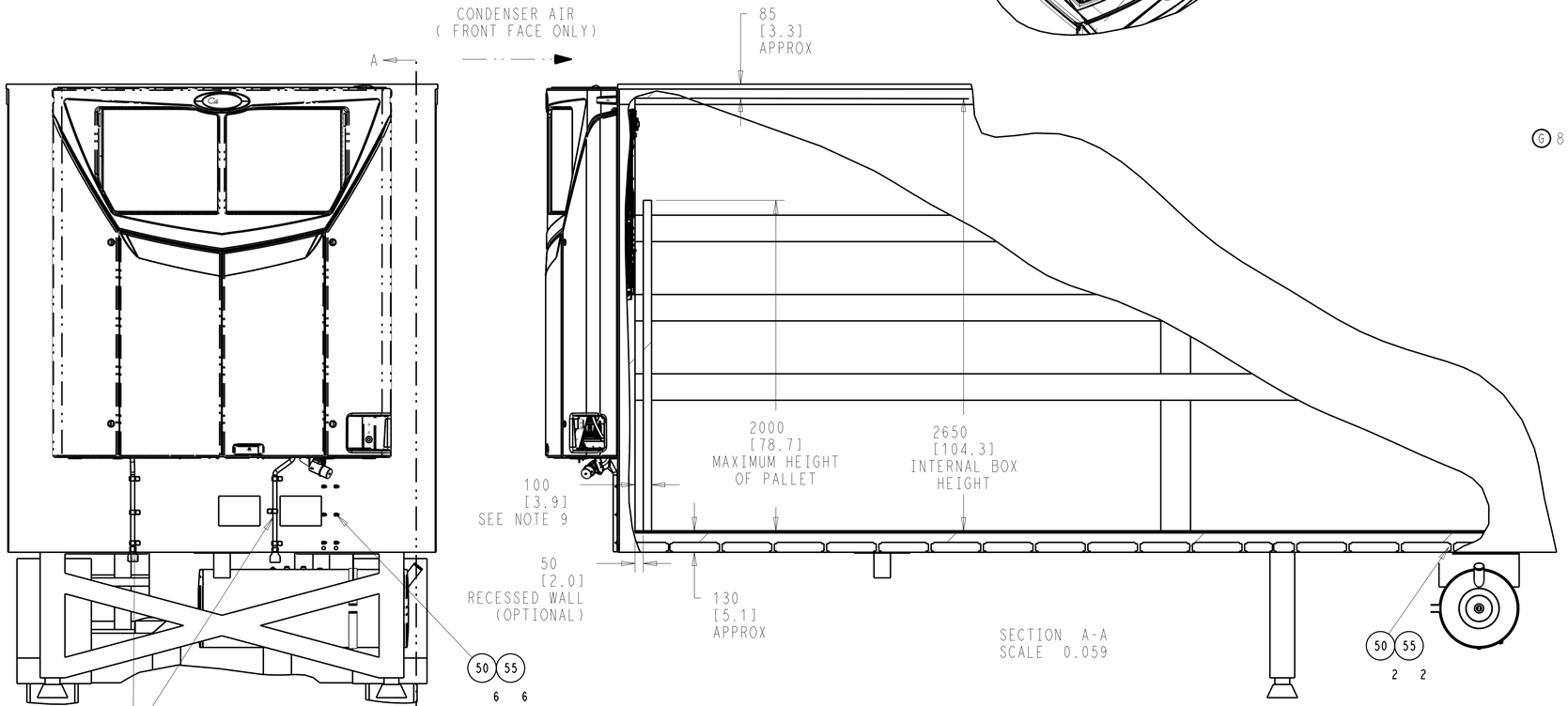
NOTE: BULKHEAD AND AIR CHUTE SHOWN ARE OPTIONAL FEATURES. FOR BEST AIR CIRCULATION AND PRODUCT PROTECTION, CARRIER TRANSICOLD HIGHLY RECOMMENDS THE USE OF BULKHEADS AND AIR CHUTES. CONTACT YOUR DEALER OR CARRIER TRANSICOLD FOR RECOMMENDATIONS.





PREPARE UNIT FOR INSTALLATION:

Ⓖ 1.0 PREPARE THE BODY TO RECEIVE THE UNIT. SEE SHEET 4 FOR DIMENSIONS OF EVAPORATOR OPENING AND MOUNTING STUD LOCATIONS. ENSURE THAT STUDS ARE CUT TO 80mm [3.15] IN ADDITION TO WALL THICKNESS.

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 TO ALLOW ACCESS TO MOUNTING STUD LOCATIONS ON UNIT, OPEN FRONT AND SIDE DOORS AND SWING OPEN KEY PAD DOOR ASSEMBLY.

Ⓖ 4.0 INSTALL HEAT SHIELD ON FRONT OF TRAILER USING RIVETS AS SHOWN ON SHEET 4.

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

UNIT INSTALLATION:

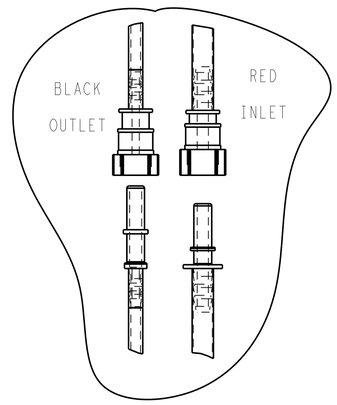
6.0 RAISE THE UNIT AND INSTALL IN THE BODY OPENING. ENSURE THAT ALL EIGHT STUDS ARE FULLY ENGAGED IN THE UNIT FRAME. PLACE WASHER (ITEM 30) AND LOCK-NUT (ITEM 15) IN EACH OF THE 8 STUDS (NOTE: THE LOWER CENTER STUDS MUST BE ACCESSED FROM THE FRONT OF THE UNIT). SNUG THE NUTS, THEN EVENLY TIGHTEN ALL NINE TO 81.6Nm [60.0ftlb] USING A TORQUE WRENCH. REMOVE LIFTING APPARATUS.

7.0 DRAIN LINES SUPPLIED WITH REEFER UNIT, CUT TO SUIT (DO NOT KINK OR OTHERWISE CLOSE DOWN TUBE I.D.). ROUTE DEFROST DRAIN HOSES DOWN THE FRONT OF THE TRAILER AND CLAMP TO FRONT WALL OF TRAILER USING 3 CLAMPS AND 3 THREAD FORMING SCREWS FOR EACH DRAIN HOSE.
CUT HOSE TO PROPER LENGTH APPROXIMATELY 76.0 [3.00] ABOVE 5th-WHEEL PLATE).

Ⓖ 8.0 FOR BEST AIR CUIRCULATION AND PRODUCT PROTECTION, CARRIER TRANSICOLD HIGHLY RECOMMENDS THE USE OF BULKHEADS AND AIR CHUTES. 100mm [3.94"] CLEARANCE IS REQUIRED BETWEEN THE INSIDE FRONT WALL OF THE TRAILER AND THE INSIDE SURFACE OF THE BULKHEAD. WHEN INSTALLING AN AIR CHUTE, THE FOLLOWING STEPS ARE TO BE TAKEN: 1) CONSTRUCT A TRASITION DUCT, PER SHEETS 5 & 6. THIS TRANSITION DUCT SHOULD BE A MINIMUM OF 1700mm [66.9"] WIDE AND SHOULD BE SEALED TO THE OUTLET OF THE UNIT. THE OUTLET OF THE TRANSITION IS CONNECTED DIRECTLY CONNECTED TO THE AIR CHUTE WHICH SHOULD EXTEND THE ENTIRE WIDTH OF THE OUTLET. A SINGLE CHUTE APPLICATION IS RECOMMENDED.

NOTES CONTINUED ON NEXT SHEET

DETAIL F
(QUICK-CONNECT)



SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.
G	UPDATED NOTE. THIS SHEET 7 WAS SHEET 6.	27 MAY 2024	LT-AR			1179458

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS SHOWN ARE IN MILLIMETERS, WITH IMPERIAL CONVERSIONS IN [INCHES]

TITLE: INSTALLATION INSTRUCTIONS
VECTOR HE19//HE17

DRAWING NO. 98-60812 SHEET 7 OF

REV. G

SUPERSEDES:

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

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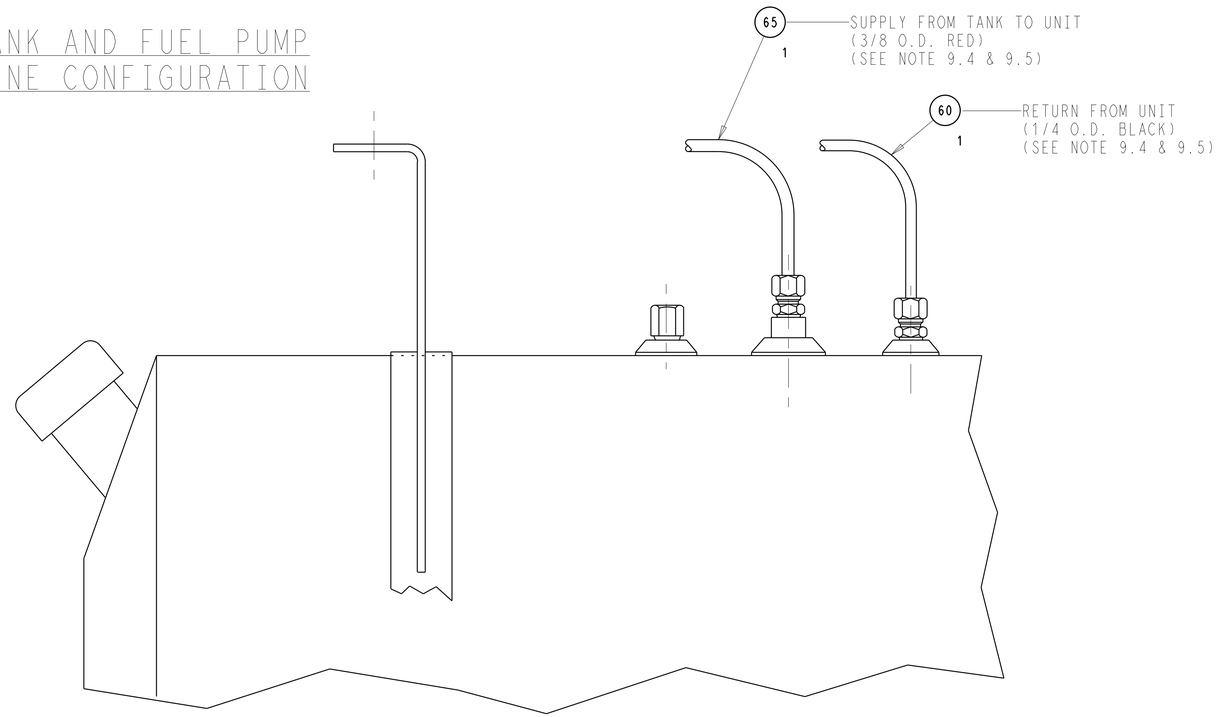
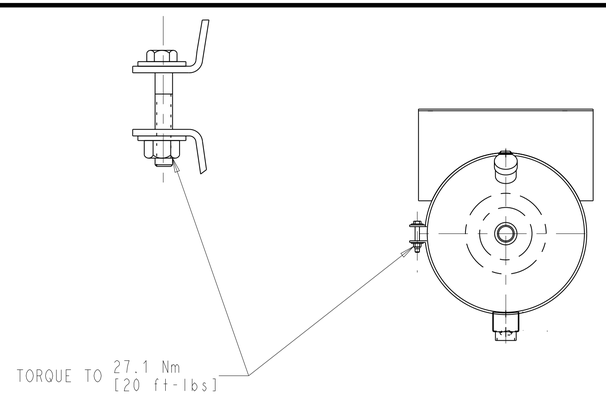
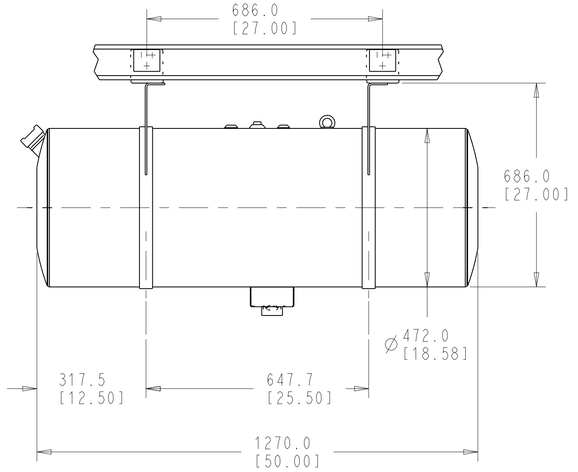
TANK AND FUEL PUMP LINE CONFIGURATION





50 GALLON TANK



VIEW A-A
(NOT TO SCALE)
FROM SHEET 7 (G)

NOTES CONTINUED FROM PREVIOUS SHEET

FUEL TANK INSTALLATION:

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

9.1 FUEL TANK SUPPORT STRAPS MUST ATTACH TO THREE CROSS MEMBERS.

9.2 FUEL TANK SUPPORT STRAPS WILL INTERFACE WITH THREE CROSS MEMBERS IF THEY ARE ON 12-INCH CENTERS. CROSS MEMBERS ON 15-INCH CENTERS WILL REQUIRE A STRUCTURAL STEEL CHANNEL TO SPAN THEM. THIS CHANNEL IS NOT SUPPLIED BY CARRIER TRANSICOLD.

9.3 FUEL TANK SHOULD BE CENTERED BETWEEN FUEL TANK STRAPS $\pm \underset{[1.50]}{38.1}$

9.4 FOR MAXIMUM MECHANICAL OR ELECTRICAL FUEL PUMP PERFORMANCE:
9.4.1 MINIMIZE FUEL LINE LENGTH.
9.4.2 MINIMIZE NUMBER OF CONNECTORS AND UNIONS.
9.4.3 NEVER USE ELBOW FITTINGS.

9.5 WHEN INSTALLING FLEXIBLE TUBE INTO THE TANK, PASS THE TUBES, BOTH SUPPLY & RETURN, THROUGH THE COMPRESSION FITTINGS AND PUSH TUBES TO THE BOTTOM OF THE TANK. WHEN THE TUBES REACH THE BOTTOM OF THE TANK, PULL THEM BACK UP APPROXIMATELY $\underset{[1.00]}{25.4}$, THEN TIGHTEN THE COMPRESSION NUT.

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

BOLT/THREAD	TORQUE (NEWTON-METER)	TORQUE (FT-LB)
1/4-20	12.2	9.03
3/8-24	40.8	30.09
1/2-13	81.6	60.19
	(EXCEPT AS NOTED)	(EXCEPT AS NOTED)

11.0 EACH INSTALLATION KIT CONTAINS SUFFICIENT CLAMPS FOR FUEL LINE ROUTING AND SECUREMENT. THE INSTALLER MAY ROUTE FUEL LINES THRU CONDUIT, $\underset{[0.75]}{19.1}$ MINIMUM, (CONDUIT NOT FURNISHED AS PART OF INSTALLATION KIT).

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

AFTER INSTALLATION:

13.0 PERFORM PRE-DELIVERY INSPECTION (ITEM 70). COPIES OF COMPLETED CHECKLIST SHOULD BE SUPPLIED TO SELLING DEALER & CUSTOMER.

14.0 OPERATE UNIT IN CONTINUOUS RUN (MANUAL) MODE FOR A MINIMUM OF 8 HOURS (12 HOURS PREFERRED). PERFORM FINAL INSPECTION ON UNIT.

UNITS SUPPLIED WITH BATTERY INSTALLED

15.0 CUT WIRE TIE(S) THAY HOLD CABLES TO UNIT FRAME.

16.0 CONNECT RED BATTERY CABLE TO THE POSITIVE (+) BATTERY TERMINAL; CONNECTOR BLACK CABLE TO NEGATIVE (-) BATTERY TERMINAL (USE OF CORROSION IN HIBITOR IS RECOMMENDED).

17.0 POSITION TERMINAL COVERS SUPPLIED WITH CABLES OVER TERMINALS.

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G	UPDATED NOTE. THIS SHEET 8 WAS SHEET 7.	27 MAY 2024	LT-AR			1179458

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VECTOR HE19/HE17

DRAWING NO. 98-60812 SHEET 8 OF

REV G

SUPERSEDES:

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

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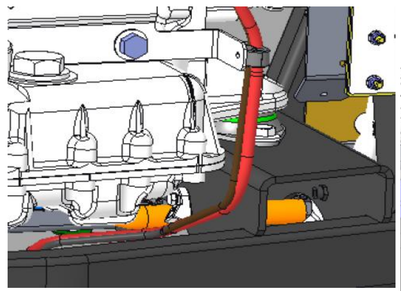
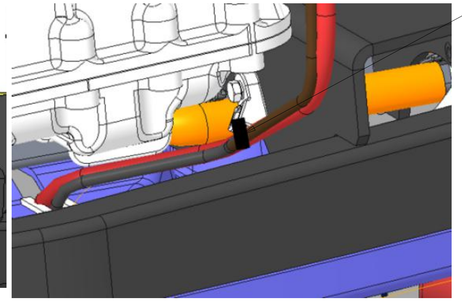
MOUNTING WITH BOTTOM PANEL:

1

1.1) -USE THE PLATIC BASE FIX TO THE FRAME IN ORDER TO TIE THE FUEL HOSES WITH A TY -RAP.

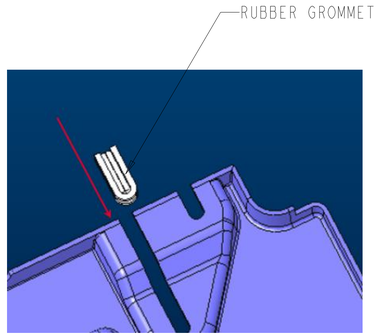
1.2) -USE THE DUAL CLAMP DILIVER WITH THE BOTTOM PANNEL IN ORDER TO SEPERATE THE STAND-BY PLUG FROM THE FUEL LINE .





2

⚠ INSERT THE RUBBER GROMMET INTO THE SLOT MACHINED ON THE BOTTOM PANNEL

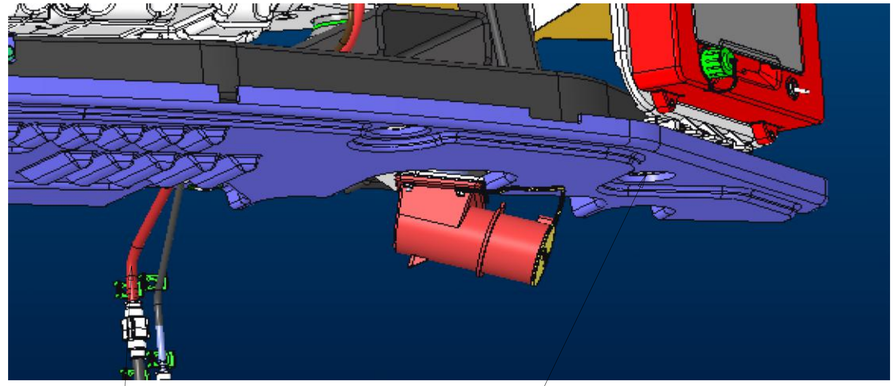


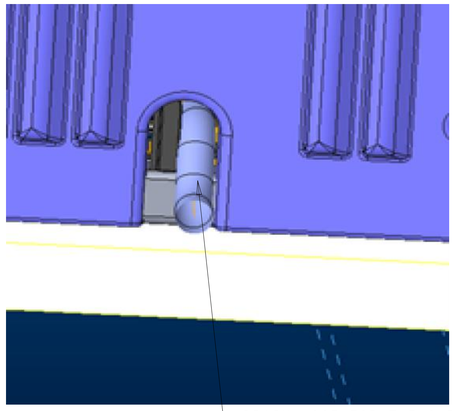
3

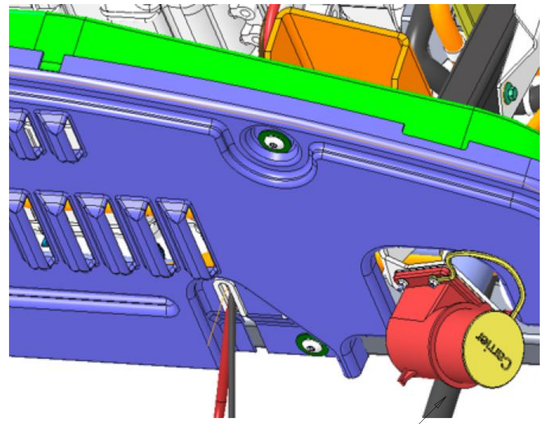
-FIX THE BOTTOM PANEL TO THE UNIT AND PASS FUEL HOSES THROUGH THE RUBBER GROMMET

-THE DRAIN HOSE WILL PASS BEHIND THE STAND BY PLUG FOR THE ROADSIDE AND THROUGH THE COMPRESSOR BRACKET AND IN THE SLOT OF THE BOTTOM PANEL FOR THE CURBSIDE.DRAIN HOSES WILL BE FIXED TO THE BODY BY USING PLASTIC BASES AND TY-RAPS.

⚠ -MAKE SURE THERE IS NO CONTACT BETWEEN THE FUEL HOSES AND THE COMPRESSOR HARNESS

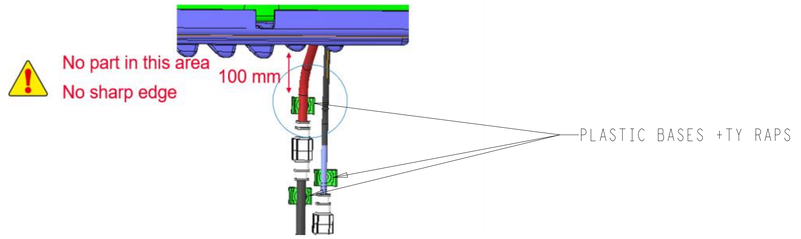






4

FIX PLASTIC BASES TO THE BODY IN ORDER TO FIX HOSES AND FITTINGS FOR FUEL BY USING TY-RAPS.



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G	THIS SHEET 9 WAS SHEET 8.	27 MAY 2024	LT-AR			1179458

THIRD ANGLE PROJECTION

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VECTOR HE17

DRAWING NO. 98-60812 SHEET 9 OF

REV G

SUPERSEDES:

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DRAWING CLASSIFICATION: US ---

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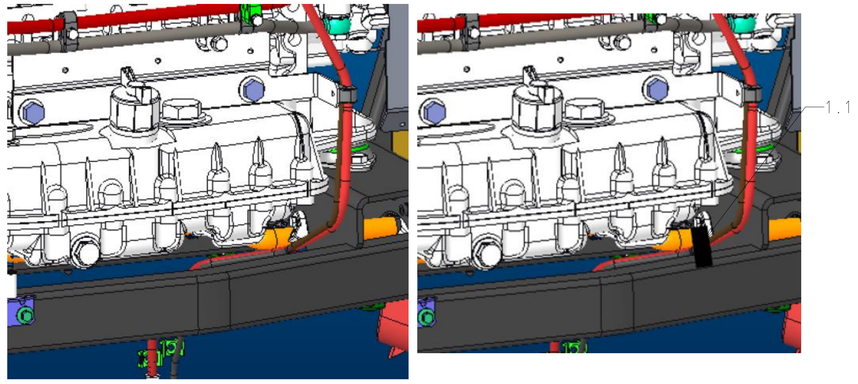
MOUNTING WITHOUT BOTTOM PANEL:

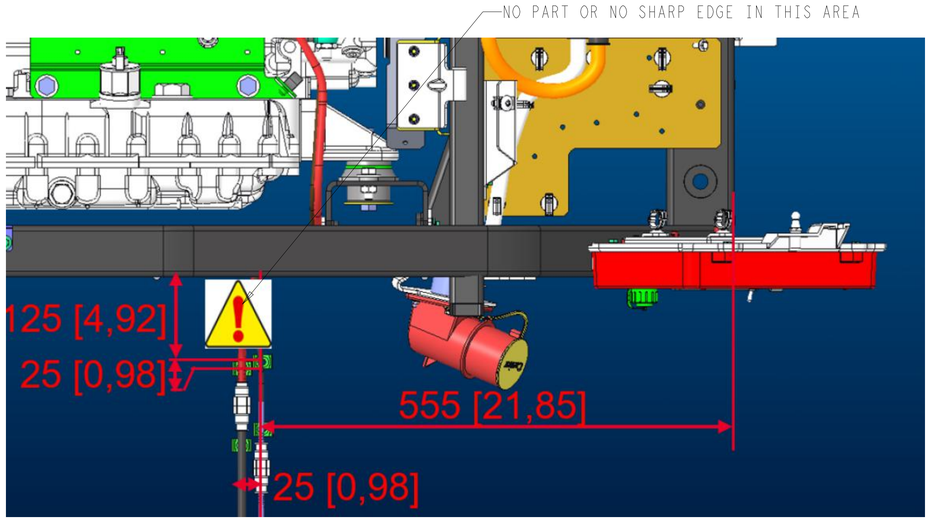
1

1.1) -USE THE PLATIC BASE FIX TO THE FRAME IN ORDER TO TIE THE FUEL HOSES WITH A TY -RAP.



2

FIX PLASTIC BASES TO THE BODY IN ORDER TO FIX HOSES AND FITTINGS FOR FUEL BY USING TY-RAPS.

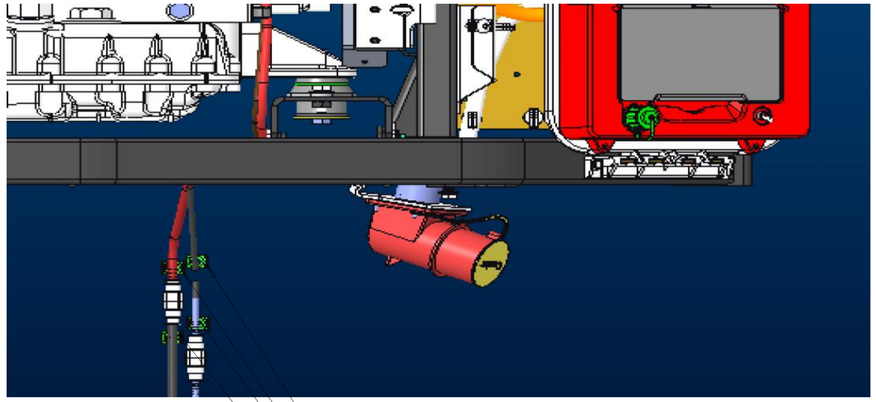


3

-FIX HOSES AND FITTINGS FOR FUEL TO THE PLASTIC BASES BY USING TY-RAPS.

-THE DRAIN HOSE WILL PASS BEHIND THE STAND BY PLUG FOR THE ROADSIDE AND THROUGH THE COMPRESSOR BRACKET , FOR THE CURBSIDE.DRAIN HOSES WILL BE FIXED TO THE BODY BY USING PLASTIC BASES AND TY-RAPS

-MAKE SURE THERE IS NO CONTACT BETWEEN THE FUEL HOSES AND THE COMPRESSOR HARNESS



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SHEET 10 OF

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400/3/50 Hz	NORMALIZED EXTENSION LABEL H.07 RNF
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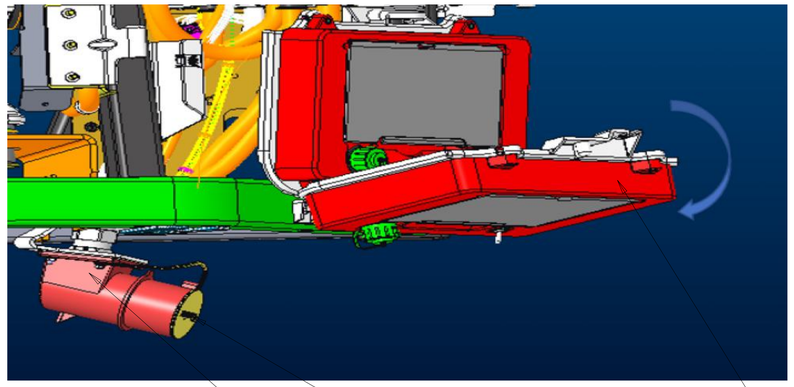
STANDBY PLUG INSTALLATION

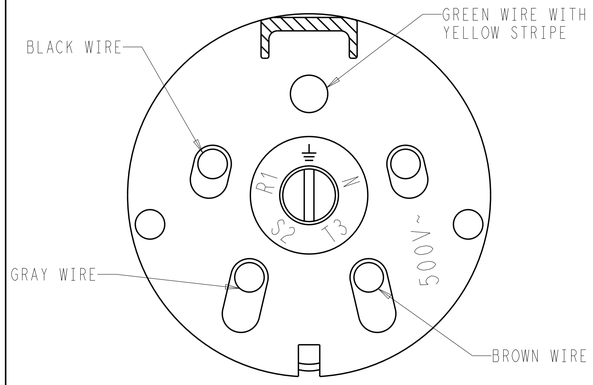
POWER PLUG IN THE INSTALLED POSITION



KEY PAD DOOR ASSY OPEN FOR ACCESS

STAND-BY PLUG

SEE NOTE 7.0

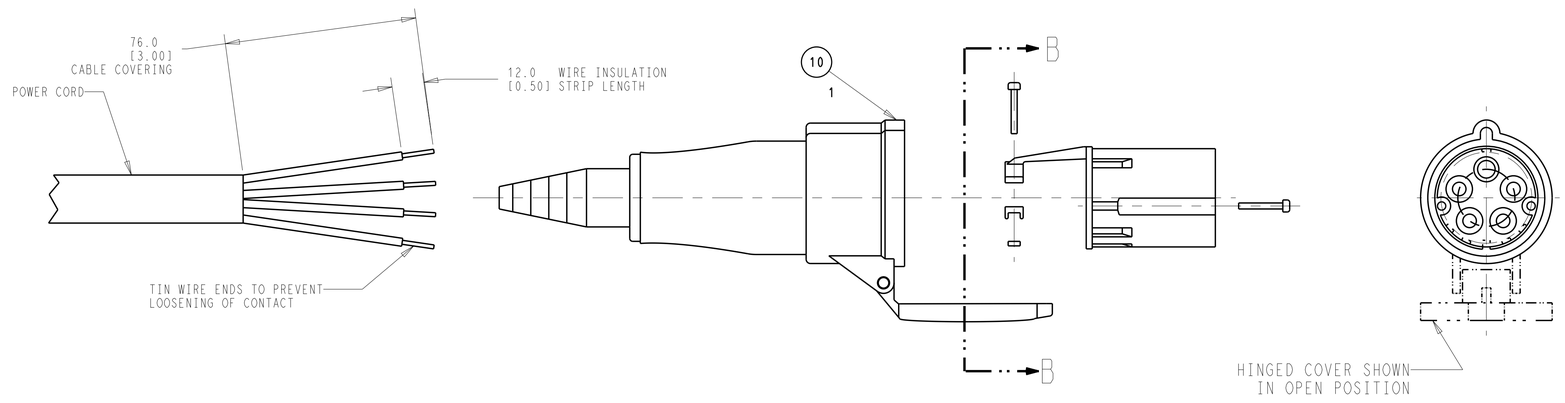


SECTION B-B
SCALE: NONE

MAKE CONNECTIONS TO PLUG AS SHOWN

1. STRIP POWER CORD INSULATION BACK 76.0mm.
2. CUT AWAY ANY PROTECTION PACKING FROM WIRES.
3. STRIP INSULATION OF WIRES BACK APPROXIMATELY 12.0mm.
4. TIN ENDS OF WIRE WITH ROSIN CORE (ELECTRICAL) SOLDER TO PREVENT FRAYING AND LOOSENING OF CONNECTION.
5. INSERT WIRE ENDS INTO THE PLUG AS SHOWN IN DRAWING. IT IS IMPORTANT THAT THE GREEN WIRE IS CONNECTED TO THE SAFETY GROUND CONNECTION (MARKED GREEN) AT THE TOP OF THE PLUG.
6. TIGHTEN CONNECTORS SECURELY AND ASSEMBLE THE PLUG.
7. STANDBY PLUG WILL BE SECURED IN POSITION SHIPPING LOCATION BY FACTORY.RELOCATE PLUG ON THE REAR LOWER FRAME RAIL OR THE SIDE OF ENGINE BRACKET MOUNT DEPENDING PLUG BRACKET CONFIGURATION PLUG AND PLATE ASSEMBLY WITH FACE DOWN AND TO THE ROAD SIDE. TIGHTEN (2) M6 BOLTS TO SECURE PLATE IN POSITION. BE SURE COVER IS IN PLACE WHEN PLUG IS NOT IN USE.
8. WHEN TESTING THE OPERATION OF THE UNIT IN STANDBY MODE, ENSURE THAT THE ROTATION OF THE MOTORS ARE CORRECT. IF THE ROTATION IS NOT CORRECT, REVERSE THE CONNECTION OF ANY TWO OF THE THREE PHASE WIRES. "DO NOT REVERSE ANY WIRE WITH THE GREEN SAFETY GROUND."

PLUG IN VERTICAL POSITION



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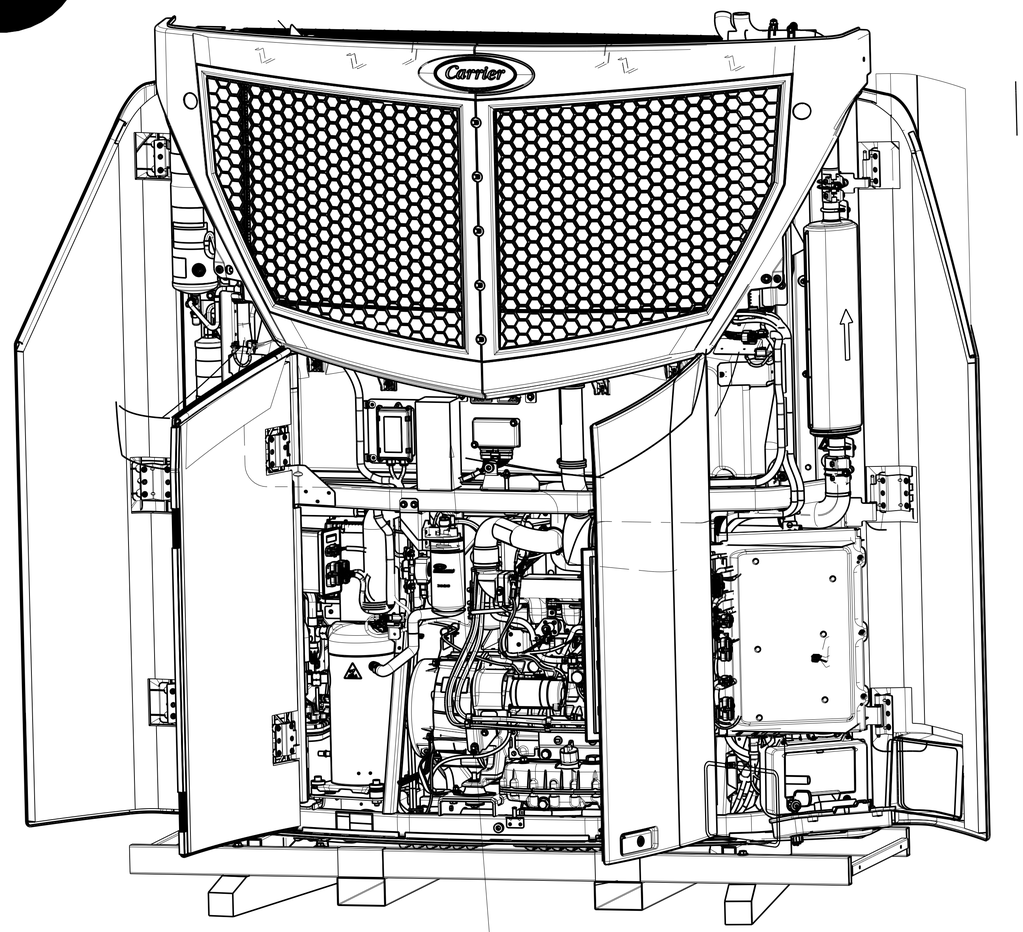
ONLY STD VERSION

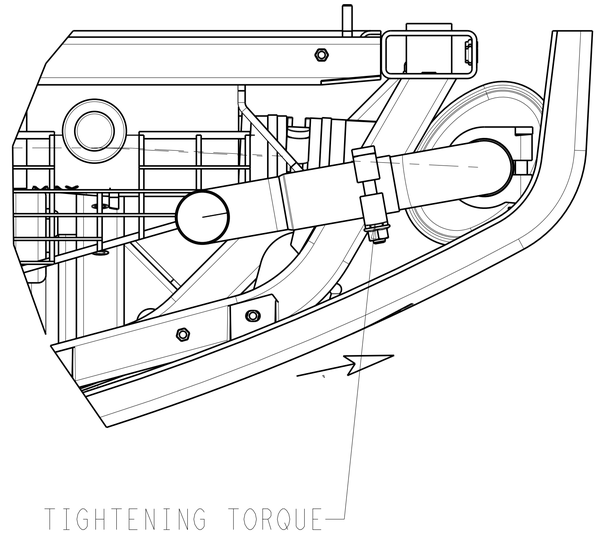
1



OPEN THE MIDDLE DOORS AND TAKE THE CARBOARD CONTAINING THE EXTENSION PIPE

2

TAKE OUT FROM THE CARBOARD THE EXTENSION PIPE
FIX IT TO THE END OF THE EXHAUST
TIGHTEN IT TO MENTIONED TORQUE



TIGHTENING TORQUE
32Nm ±5Nm
23.6 lbf-ft ±3.7 lbf-ft

SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.
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SHEET 12 OF

REV G

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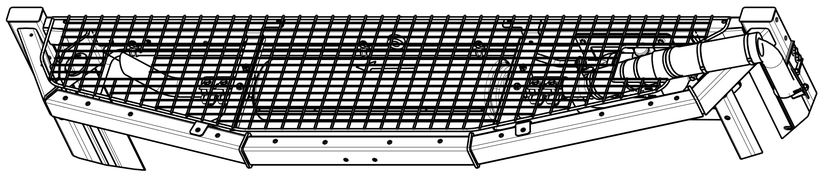
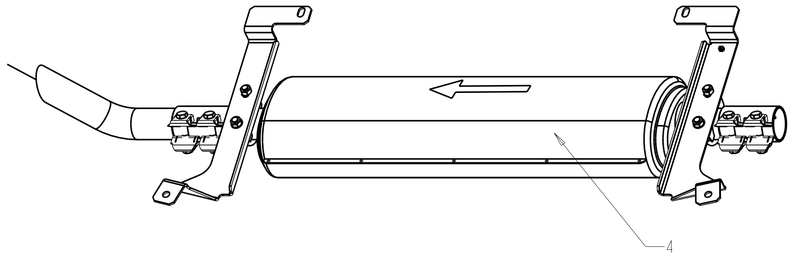
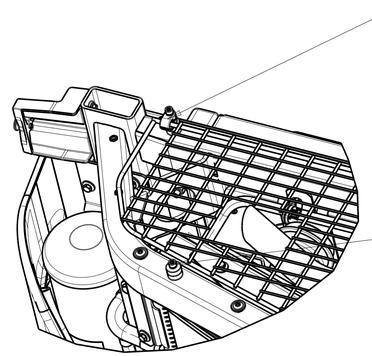
4 REAR FASTENING POINTS
4 FRONT FASTENING POINTS

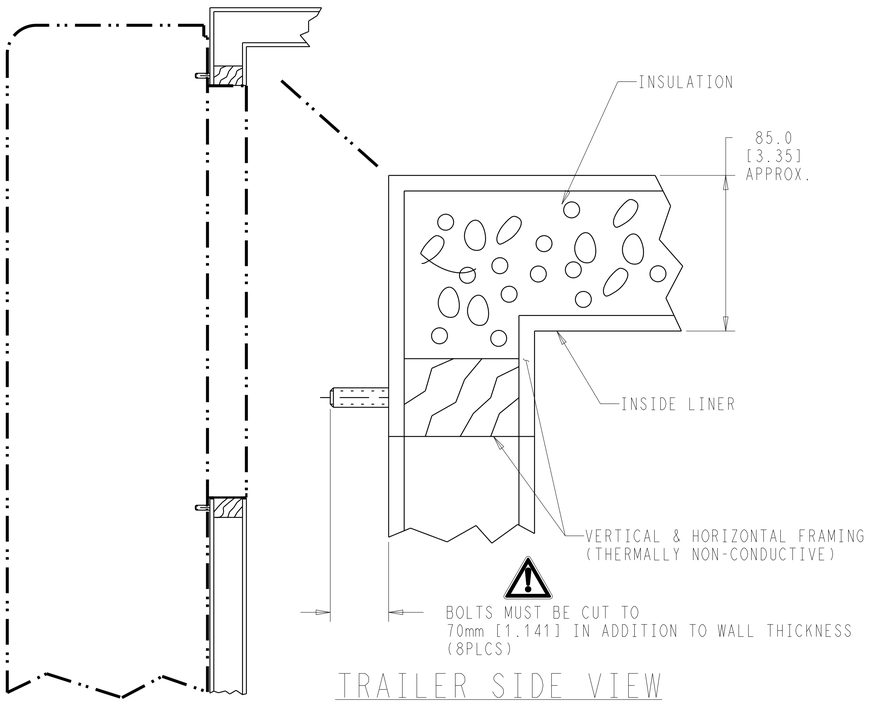
VERSION PIEK



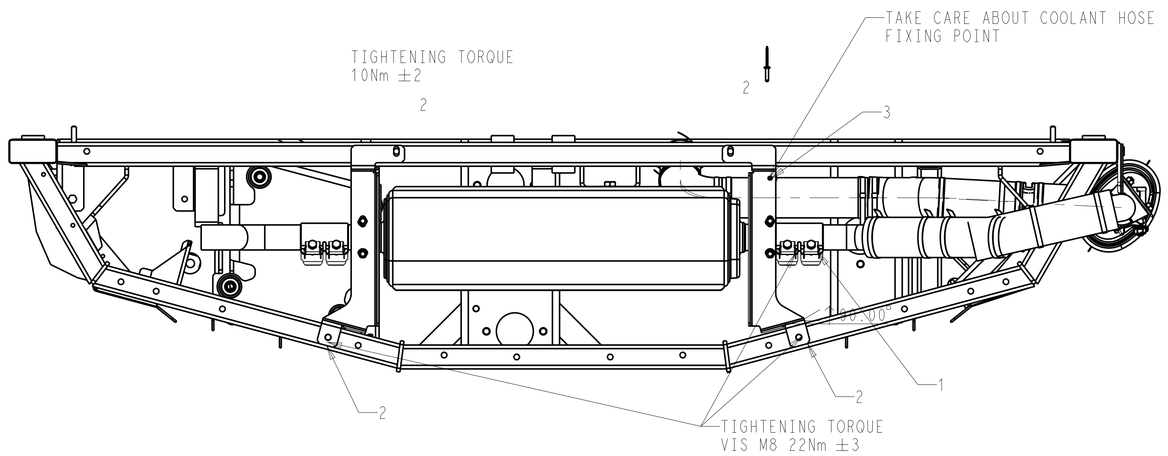


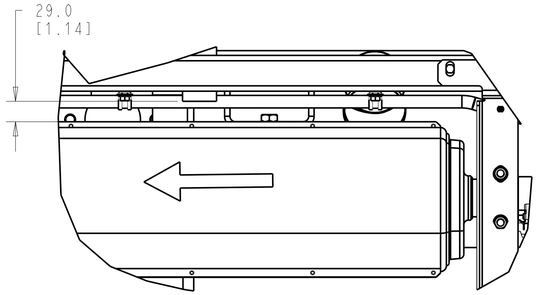


WORKING FROM OF THE INSIDE OF THE TRUCK BODY ,APPLY SEALANT ARROUND EACH MOUNTING HOLE.INSTALL THE 8 TEE BOLTS. USING SELF TAPPING SCREWS TO SECURE THE T BOLTS,MAKE SURE ALL OF THE ITEMS DESCRIBE ABOVE ARE SECURED TO THE INTERNAL STRUCTURAL MEMBERS OF THE BODY.
WORKING FROM THE OUTSIDE OF THE TRUCK BODY:APPLY SEALANT AROUND EACH T BOLTS ;MAKE CERTAIN THE THREADS OF EACH T BOLT REMAIN CLEAN AND FREE OF SEALANT FAILURE TO KEEP THREAD CLEAN IN ODER TO APLLY THE REQUIRE TORQUE VALUE



TRAILER SIDE VIEW
(NOT TO SCALE)





REMOVE EXHAUST TO MOUNT THE UNIT ON THE TRAILER BOX
1. REMOVE THE TWO SCREWS (SEE MARK 1) OF THE COUPLING MUFFLER-EXHAUST PIPE
2. REMOVE THE FOUR SCREWS (SEE MARK 2) OF THE FIXING BRACKETS OF THE MUFFLER
3. REMOVE THE FIXING COLLAR OF THE WATER HOSE COOLANT (SEE MARK 3)
4. REMOVE THE ASSEMBLY

REASSEMBLY
1. PUT IN PLACE THE ASSEMBLY
2. TIGHT THE SCREWS (SEE MARK 2) OF THE FIXING BRACKETS
3. TIGHT THE SCREWS (SEE MARK 1) OF THE COUPLING
4. ADD THE FIXING COLLAR OF THE WATER HOSE COOLANT
5. PUT IN PLACE THE TOP GRILLE WITH THE CORRECT ASSEMBLY (SEE VIEW)

SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.
G	THIS SHEET 13 WAS SHEET 12.	27 MAY 2024	LT-AR			1179458

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS SHOWN ARE IN MILLIMETERS, WITH IMPERIAL CONVERSIONS IN [INCHES]

TITLE: INSTALLATION INSTRUCTIONS
VECTOR HE19

DRAWING NO. 98-60812 SHEET 13 OF

REV G

SUPERSEDES:

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

Carrier TRANSICOLD

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

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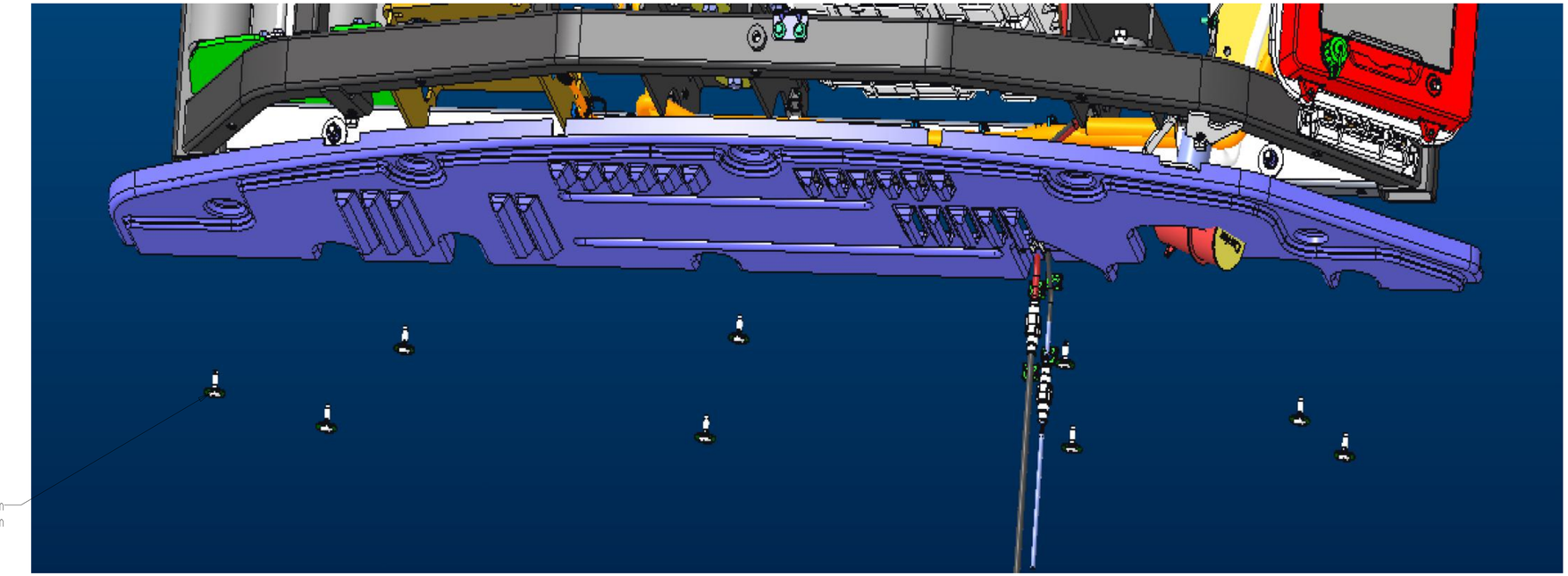
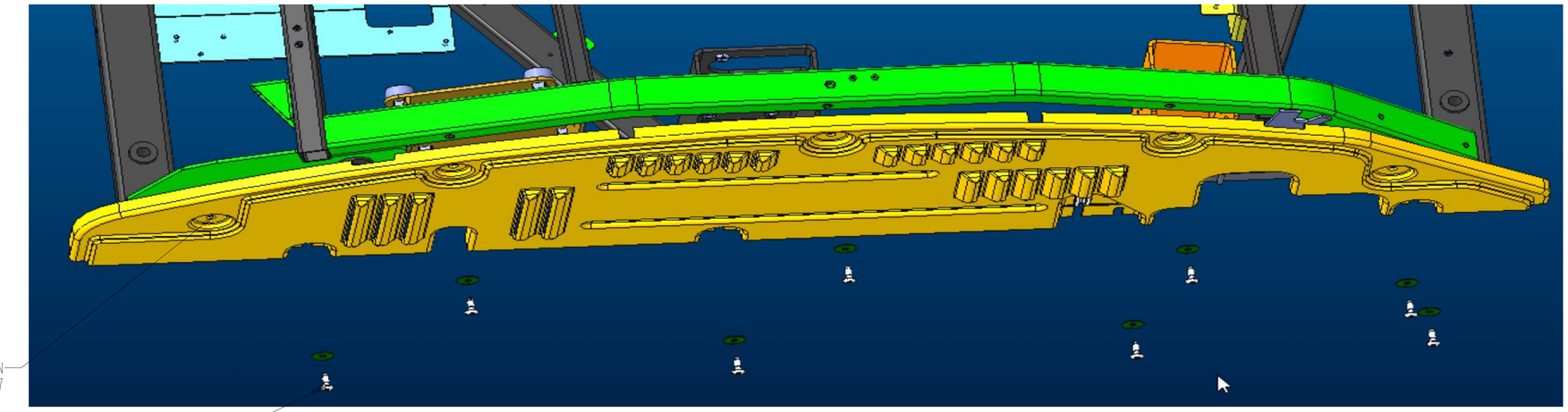
BOTTOM PANEL HE19



COUPLE DE SERRAGE :10 Nm
TIGHTENING TORQUE :10Nm

BOTTOM PANEL HE17



THIS LOCATION
NOT USED ON HE17

COUPLE DE SERRAGE :10 Nm
TIGHTENING TORQUE :10Nm

SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.
G	THIS SHEET 14 WAS SHEET 13.	27 MAY 2024	LT-AR			1179458

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS SHOWN ARE IN MILLIMETERS, WITH IMPERIAL CONVERSIONS IN [INCHES]

TITLE
INSTALLATION INSTRUCTIONS
VECTOR HE19/HE17

DRAWING NO. 98-60812
SHEET 14 OF

REV G

SUPERSEDES:

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

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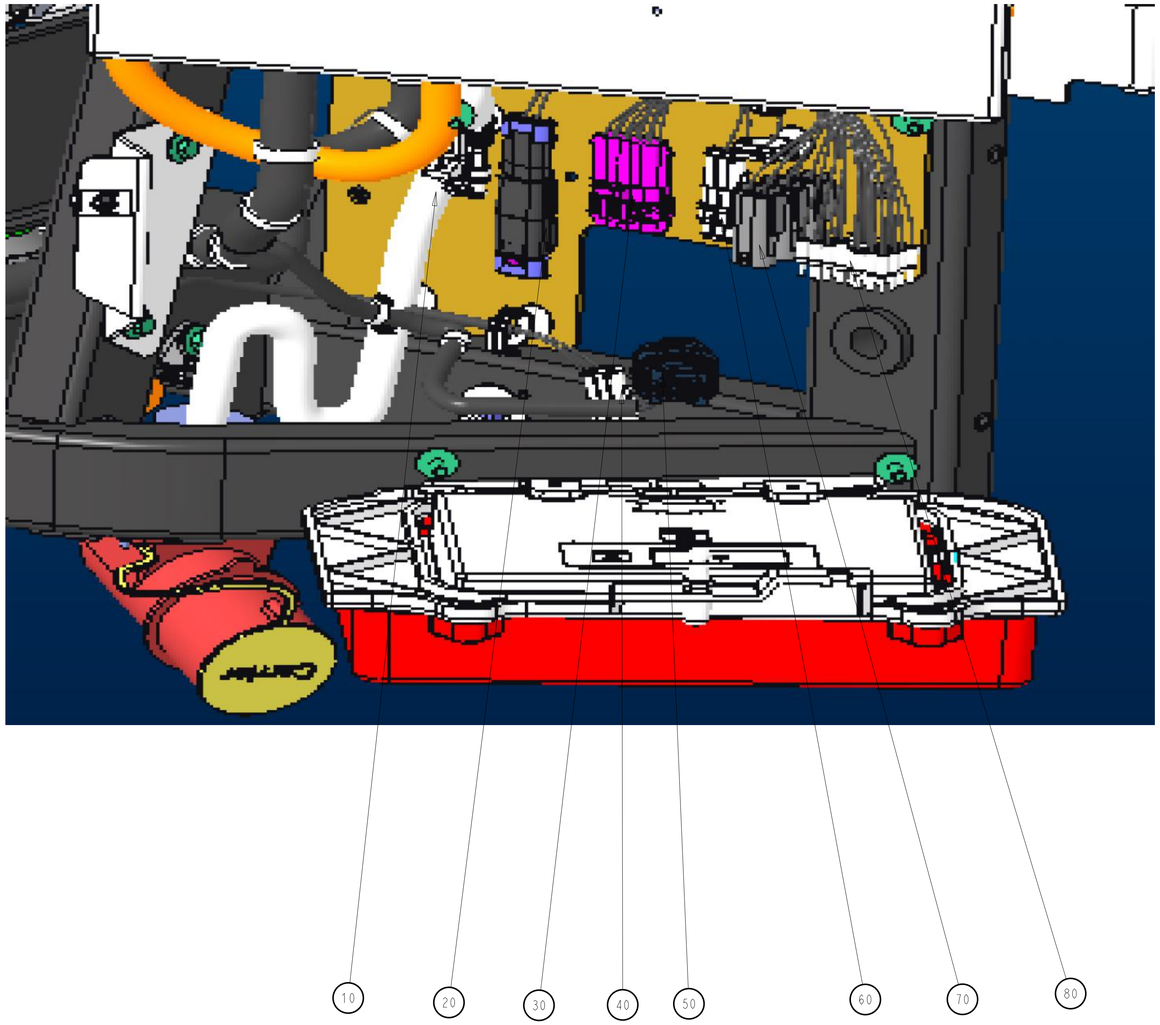
CONNECTION OF ACCESSORIES

OPTIONS SUCH AS TEMPERATURE RECORDER, GPS TRACKING SYSTEM, MAY DISCHARGE THE BATTERY WHEN THE UNIT IS OFF AND MUST NOT BE CONNECTED DIRECTLY TO THE BATTERY.

OPTIONS MUST BE CONNECTED TO THE 'RP' CONNECTION WHICH CAN BE FOUND BEHIND THE DISPLAY.

DO NOT CONNECT A 2 WAYS TELEMATIC ON THE SATCOM MCA.



IMPORTANT: THE MAX. ADMISSIBLE CURRENT FOR ALL THE OPTIONS IS 2A.
ALL OPTIONS MUST BE CONNECTED TO THE BATTERY GUARD OUTPUT TO PREVENT ANY DEEP DISCHARGE OF THE BATTERY.

( ): THE OUTPUT FUSE RATING DEPENDS ON THE MAX. CURRENT OF THE OPTION AND OF THE WIRE SECTION

( ) 0.75 mm^2 - MAX. RECOMMENDED OUTPUT FUSE RATING: 3A

ITEM	CONTENTS
10	SATCOM GTD, SATCOM MCA, SATCOM LYNX CONNECTIONS
20	SET POWER CONNECTION
30	REM CONNECTION
40	CAN COM CONNECTION
50	DISPLAY CONNECTION
60	LIGHT BAR CONNECTION
70	BATTERY GUARD CONNECTION
80	OPTIONS (FLS1 3 WIRES , FLS2 3 WIRES, FP 2 WIRES, DS 2 WIRES, TEMP 2 WIRES)

SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.
G	THIS SHEET 15 WAS SHEET 14.	27 MAY 2024	LT-AR			1179458

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS SHOWN ARE IN MILLIMETERS, WITH IMPERIAL CONVERSIONS IN [INCHES]

TITLE: INSTALLATION INSTRUCTIONS
VECTOR HE17

DRAWING NO. 98-60812
SHEET 15 OF

REV G

SUPERSEDES:

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US ---