



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

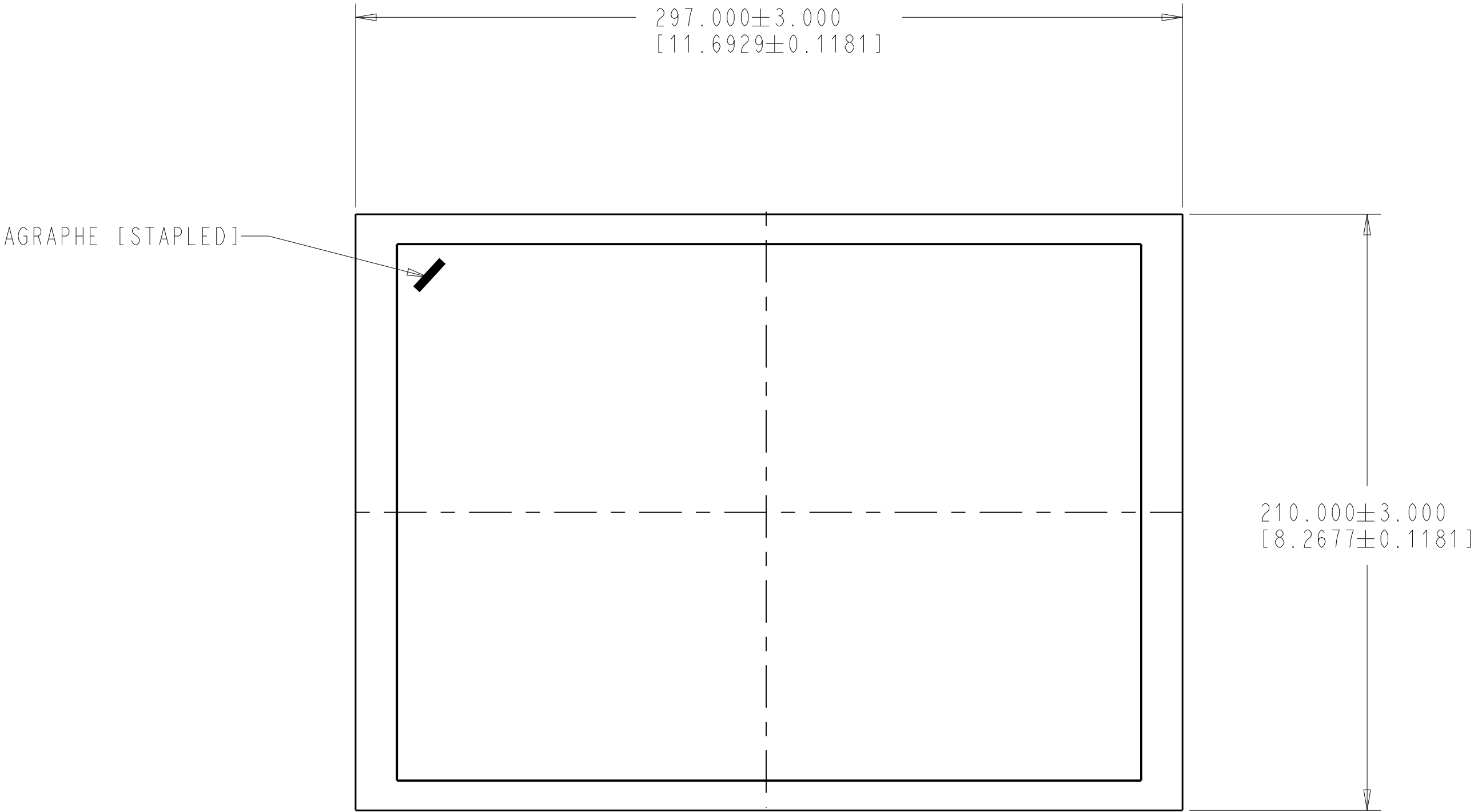
FOURNISSEUR: OU EQUIVALENT AGREE PAR LE SERVICE ENGINEERING
[SUPPLIER: OR ENGINEERING APPROVED EQUIVALENT.]

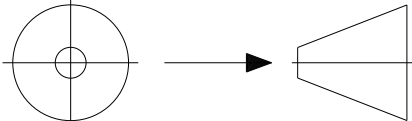
NUMERO DE PIECE FOURNISSEUR: NUMERO DE CODE CTD.
[SUPPLIER PART NO.: SAME AS CTD PART NUMBER.]

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.]



K	UPDATED THIS INSTRUCTION.	04 JUN 2025	LT-AM			ECN1196109	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 K
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.					

SUPERSEDES: _____

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99



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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].

**** 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 WHEN RECLAIMING R452A PRIOR TO BRAZING WORK.REFER TO SERVICE PROCEDURE.

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SEE SEPARATE PARTS LIST

K	UPDATED SHEET INDEX. SEE SHEETS 3, 4, 5, 7 & 8	04 JUN 2025	LT-AM			ECN1196109	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 17	REV K
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.					

SUPERSEDES: _____

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99



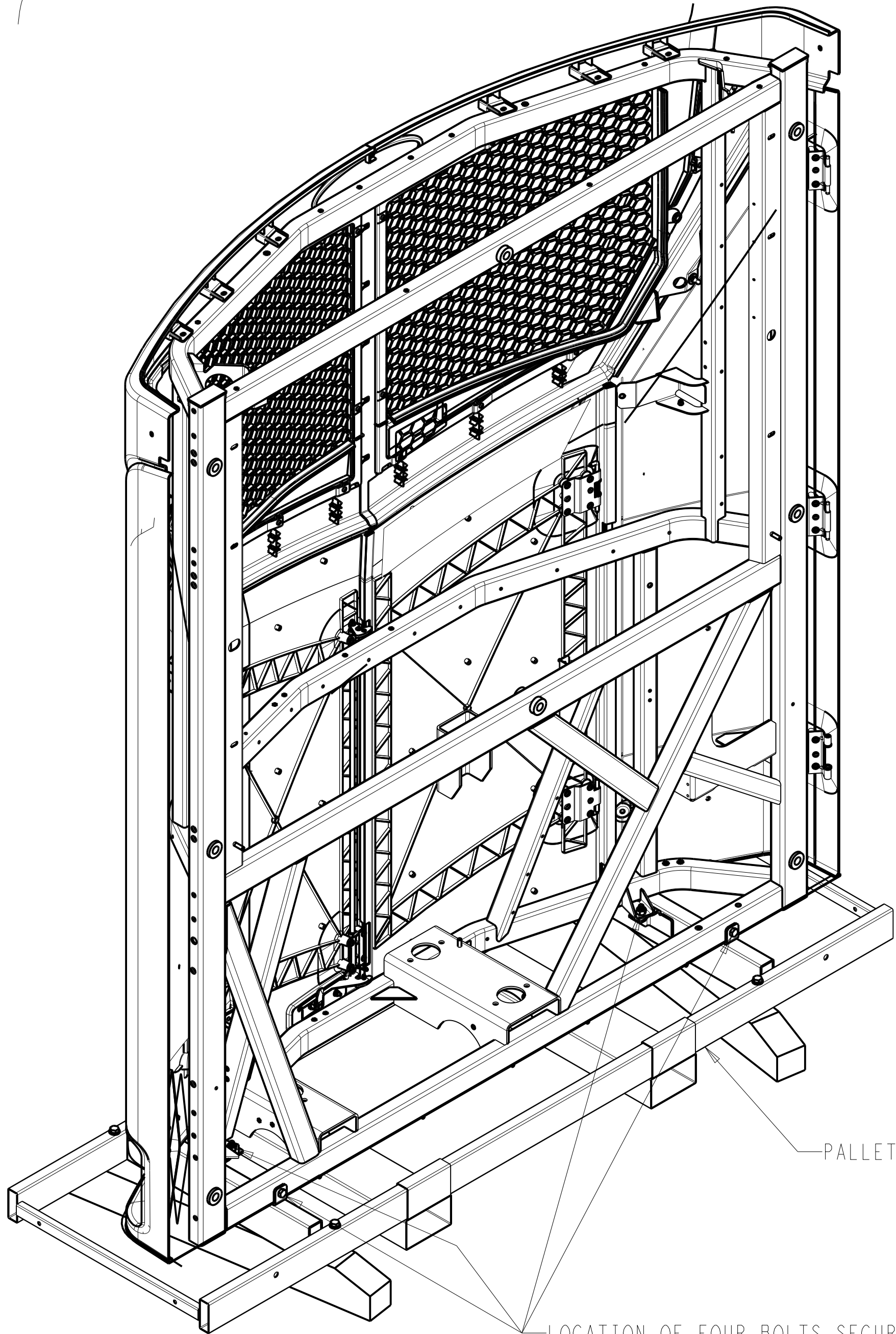
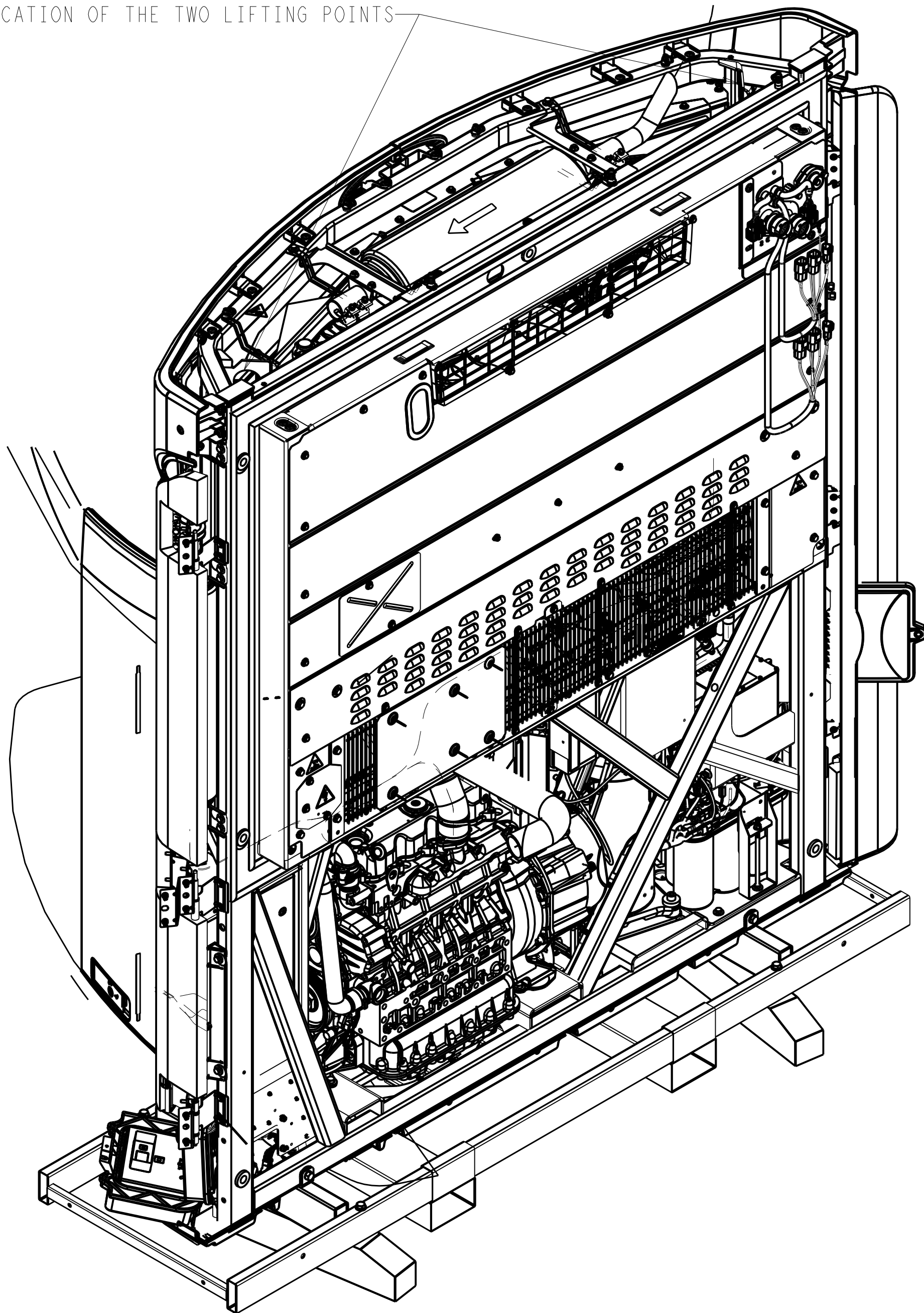
** ATTENTION INSTALLER **

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 GROUND, OR BY USING AN APPROPRIATE LIFTING TABLE
2.0 ENSURE THAT THE UNIT IS HELD BY ITS LIFTING 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

LOCATION OF THE TWO LIFTING POINTS



PALLET

LOCATION OF FOUR BOLTS SECURING
THE VECTOR ON PALLET

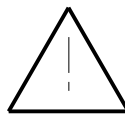
H	UPDATED NOTE 1.0 & 2.0	17 JUL 2024	LT-AU			1184555	THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS SHOWN ARE IN MILLIMETERS, WITH IMPERIAL CONVERSIONS IN [INCHES]	TITLE	INSTALLATION INSTRUCTIONS VECTOR HE19/HE17	DRAWING NO.	98-60812	REV	H
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.						SHEET 2 OF		

STANDARD UNIT DIMENSION INFORMATION

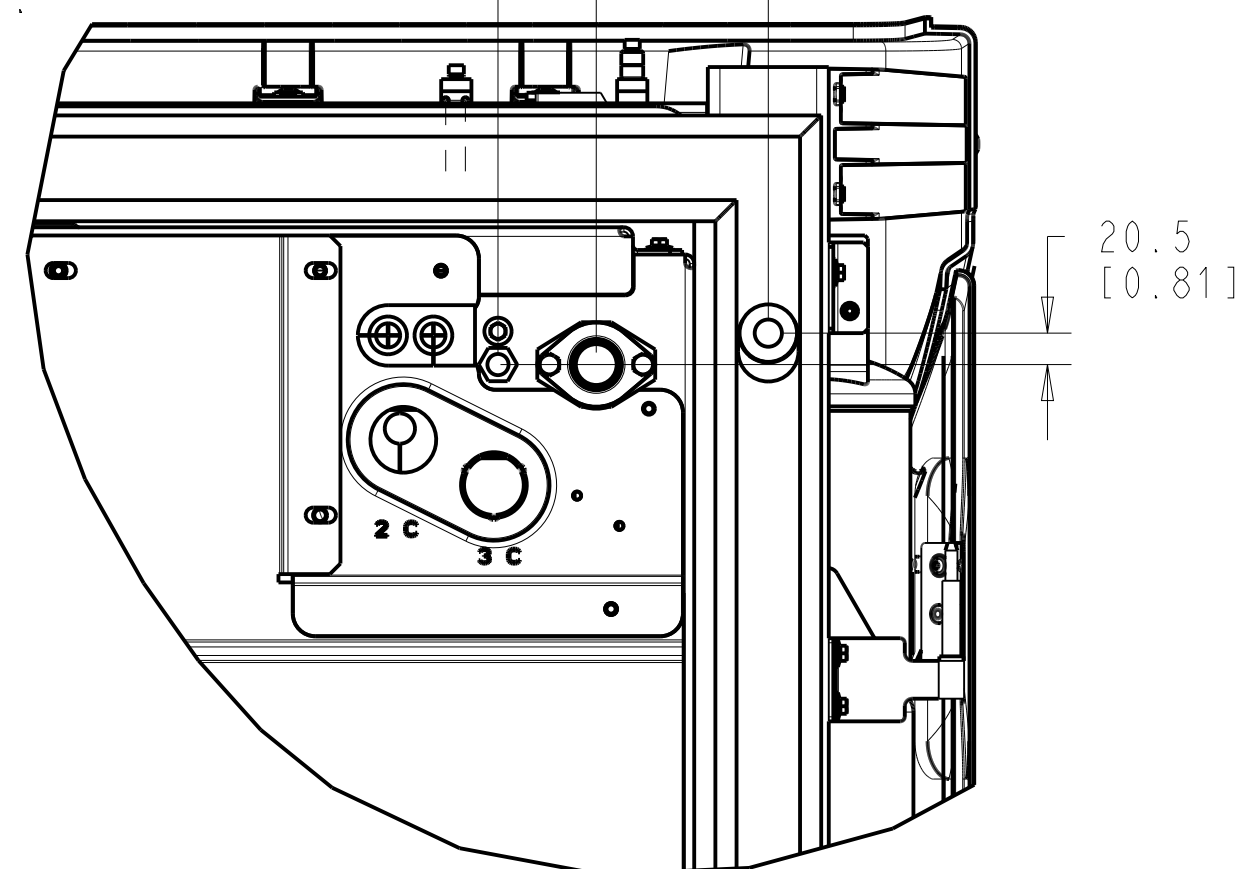
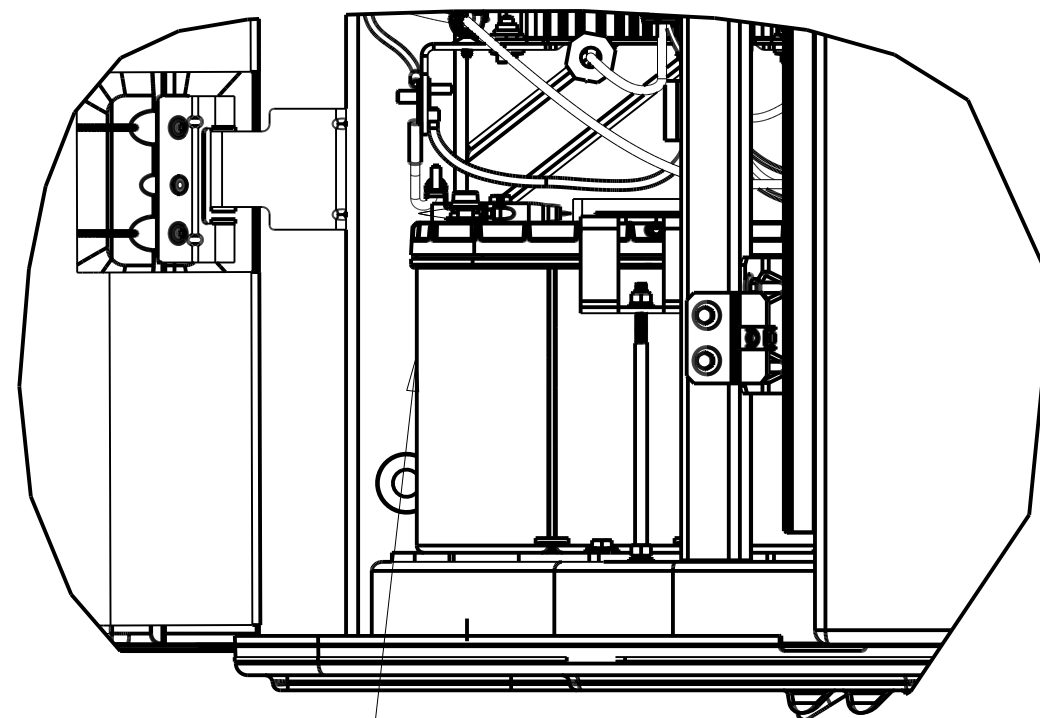
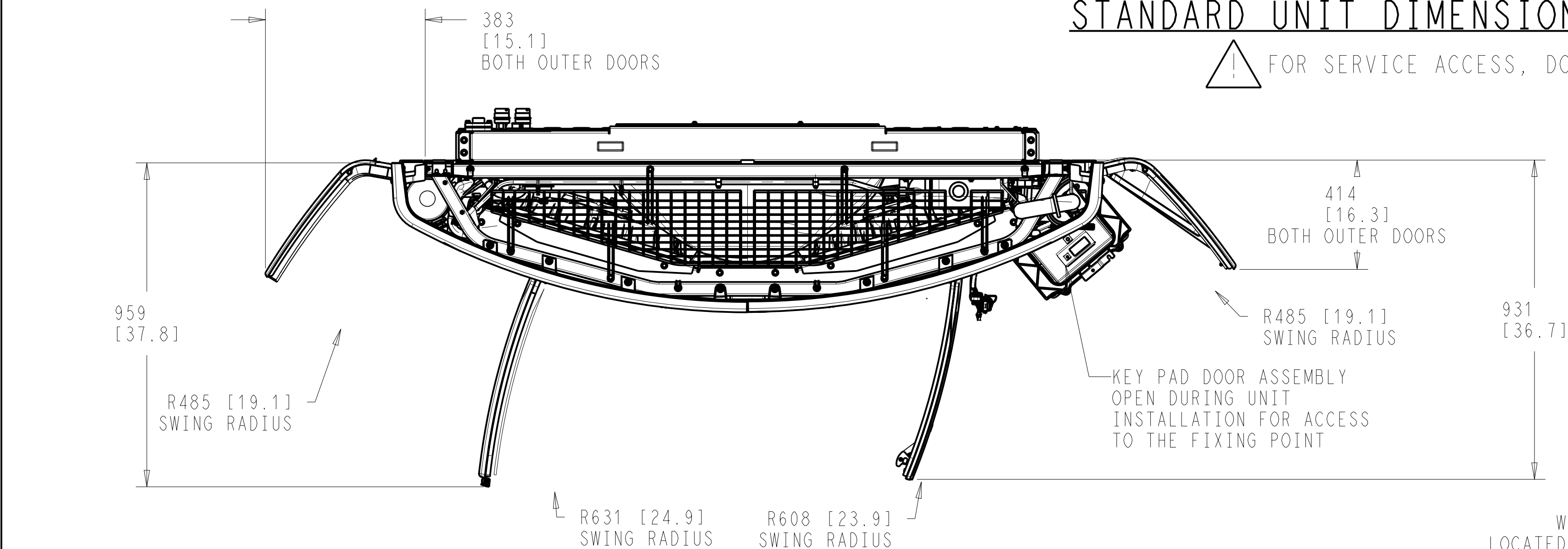


UNIT CENTER OF GRAVITY

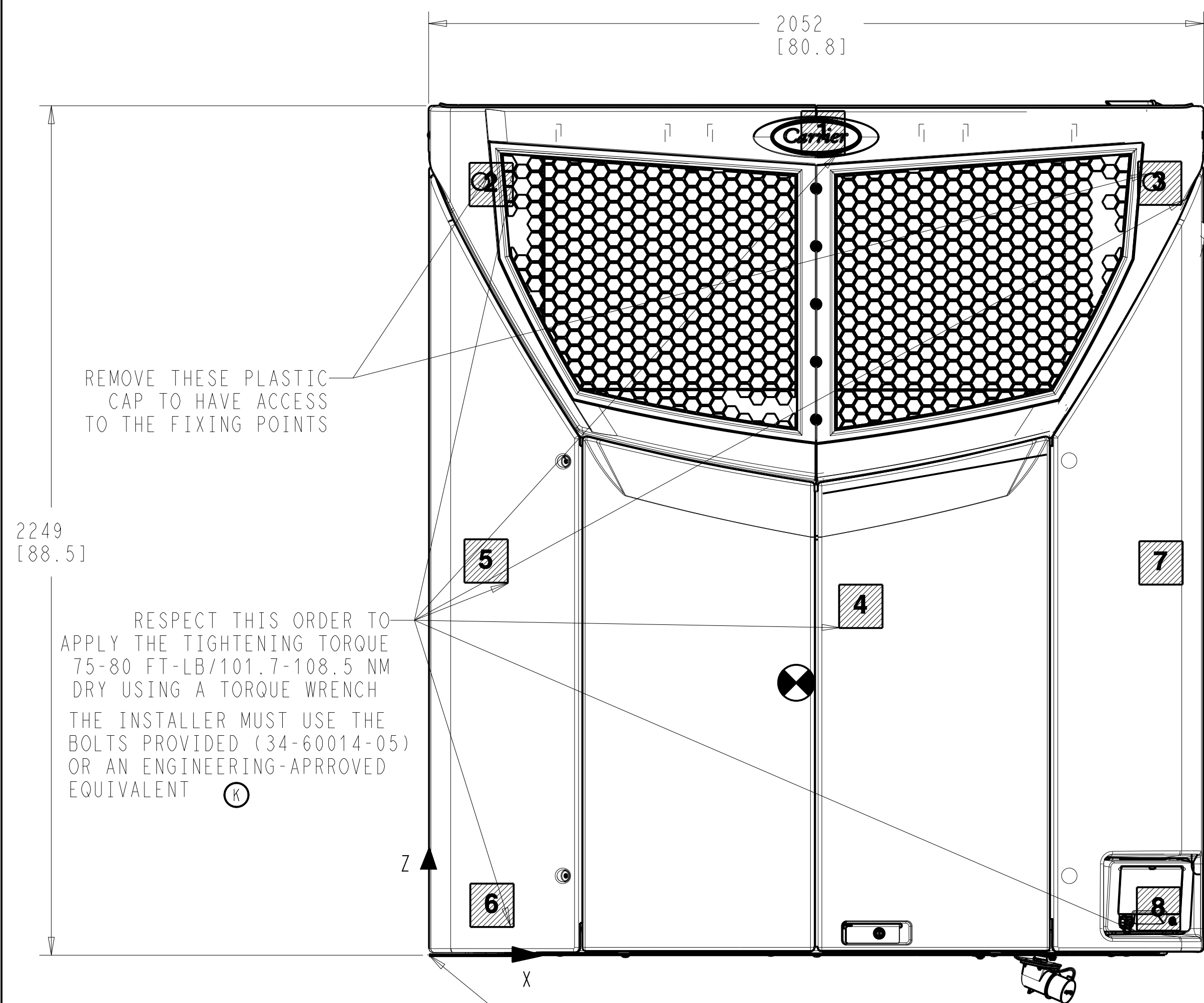
DETAIL A FOR FITTING LOCATION



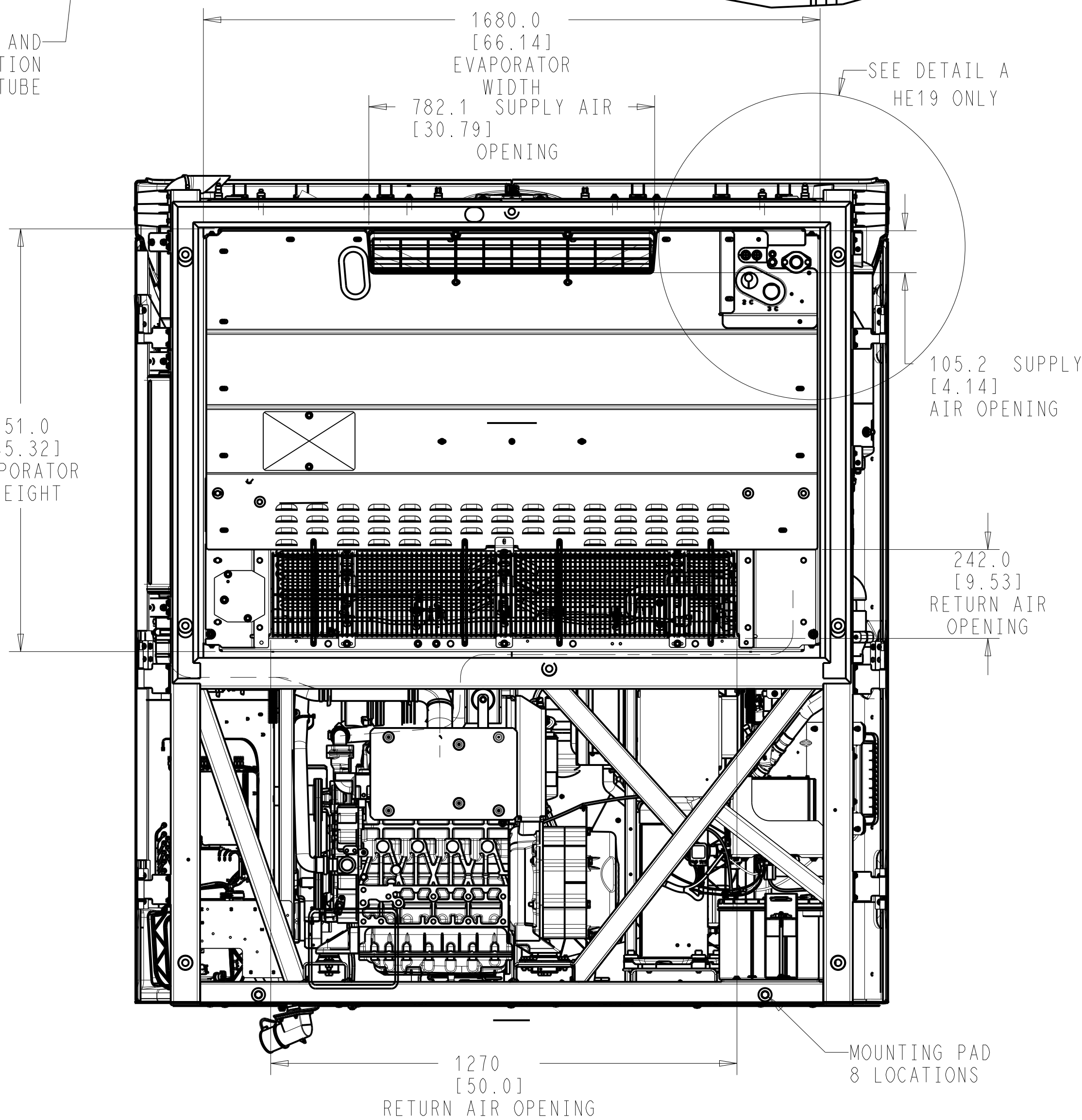
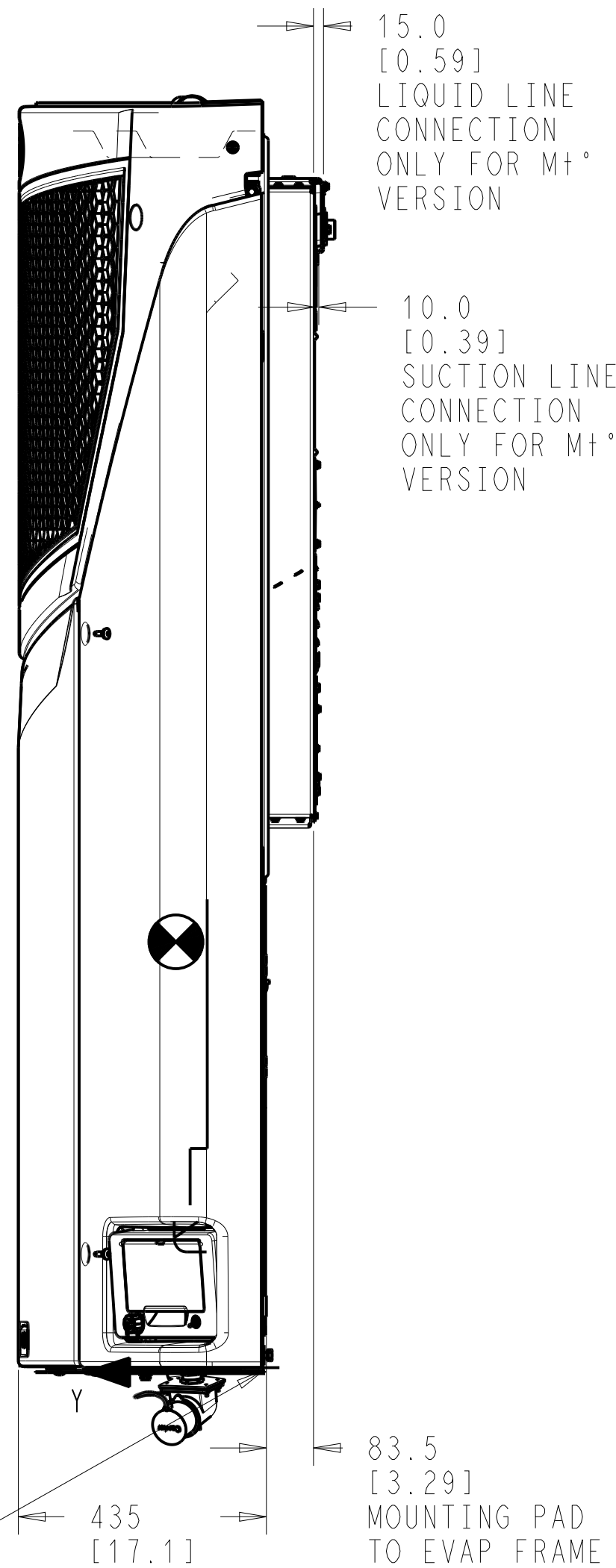
FOR SERVICE ACCESS, DO NOT LIMIT OPENING OF UPPER DOORS WITH BUMPER.



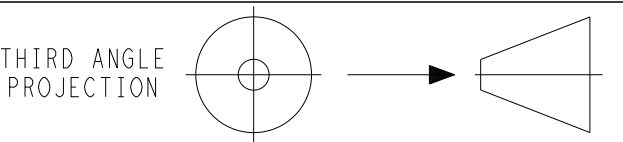
SERIAL NUMBER AND
WARRANTY INFORMATION
LOCATED ON THIS FRAME TUBE



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]



K	UPDATED TIGHTENING TORQUE NOTE	04 JUN 2025	LT-AM			ECN1196109
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



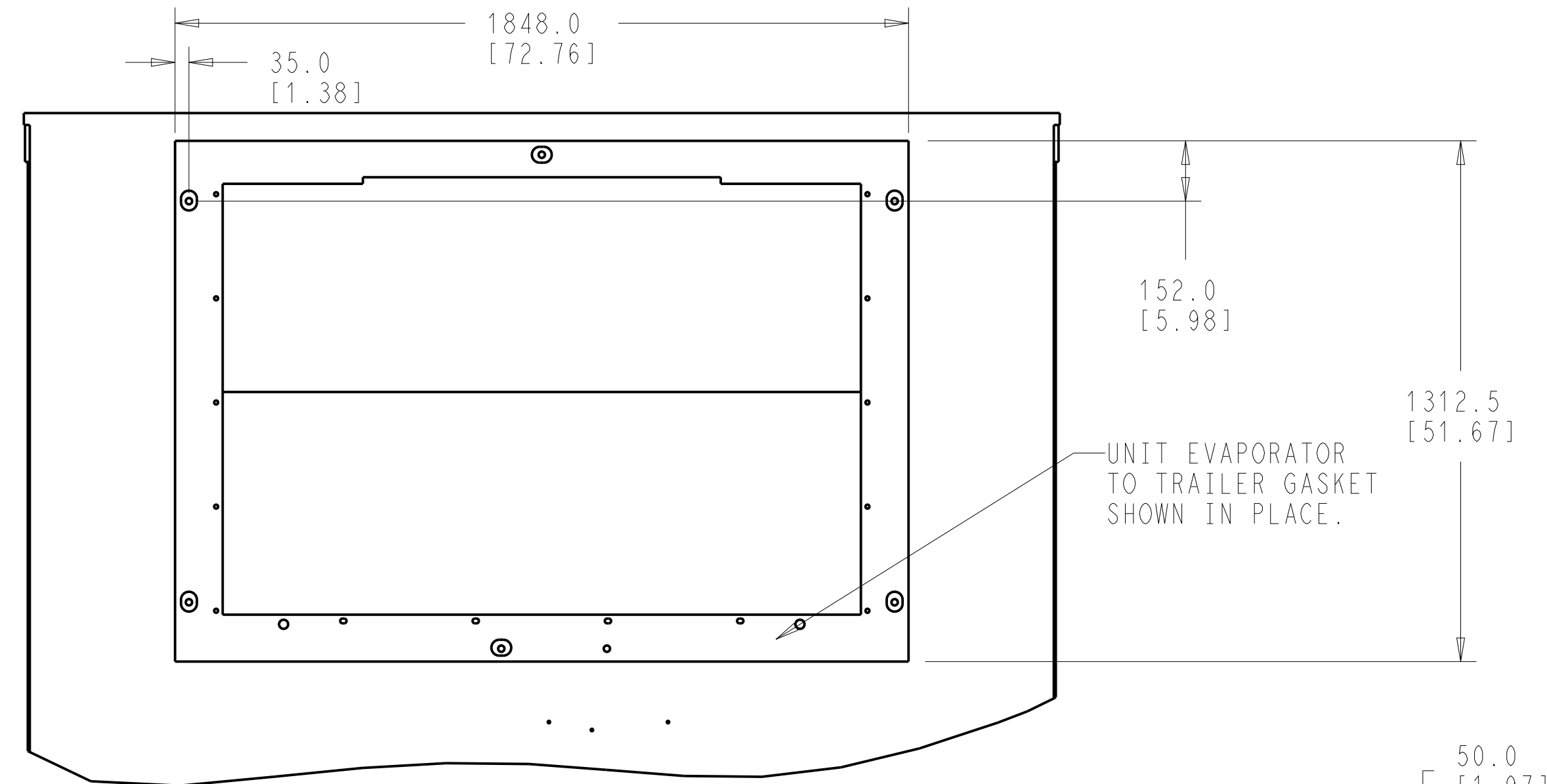
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DIMENSIONS SHOWN ARE IN MILLIMETERS,
WITH IMPERIAL CONVERSIONS IN [INCHES]

TITLE	INSTALLATION INSTRUCTIONS VECTOR HE19/HE17	DRAWING NO.	98-60812	REV	K
SUPERSEDES:		PART CLASSIFICATION: US EAR99		SHEET 3 OF	



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TRAILER FRONT WALL
WITH UNIT GASKET
IN PLACE.

VERSION STANDARD

—MOUNTING STUD, 1/2-13 UNC-2A CLASS 8.8 (K)

-INSULATION

85.0
[3.35]
APPROX.

—INSIDE LINER

—VERTICAL & HORIZONTAL FRAMING
(THERMALLY NON-CONDUCTIVE)

BOLTS MUST BE CUT TO
80mm [3.15] IN ADDITION TO WALL THICKNESS
(9PLCS)

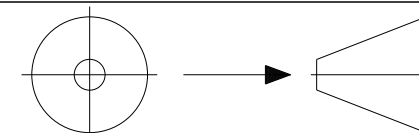
TRAILER SIDE VIEW
(NOT TO SCALE)

CAUTION: UNIT MOUNTING SURFACES OF TRAILER THAT CONTACT THE UNIT MOUNTING PADS MUST BE UNI-PLANER TO WITHIN $\begin{matrix} 3.0\text{mm} \\ [0.12] \end{matrix}$ 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.

K	ADDED NOTE	04 JUN 2025	LT-AM			ECN1196109
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.

THIRD ANGLE
PROJECTION



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

	TITLE
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INSTALLATION INSTRUCTIONS

VECTOR HE19

DRAWING NO.

98-60812

REV

17

SHEET 4 OF 4

SUPERSEDES:

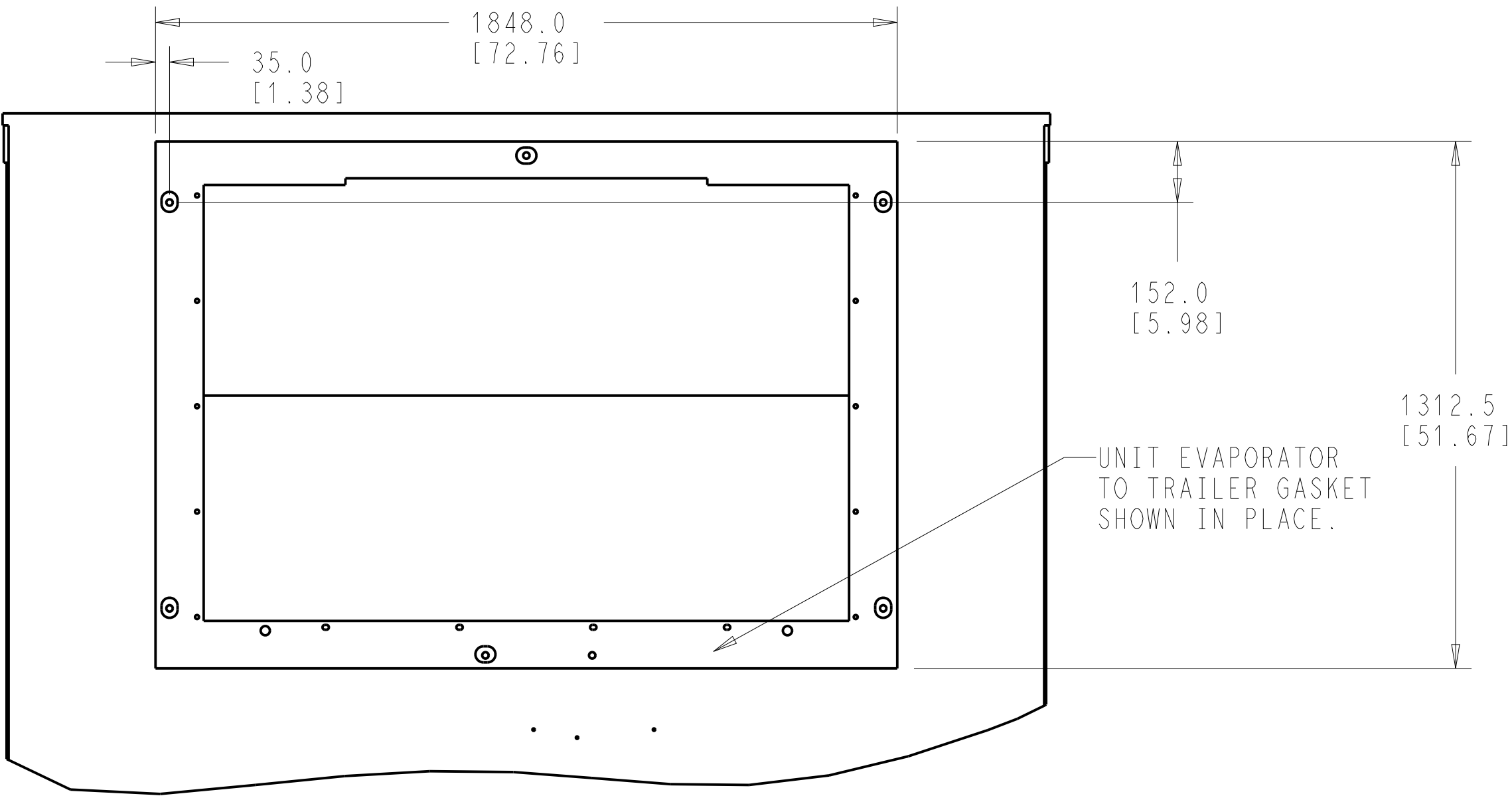
PART CLASSIFICATION: US EAR99



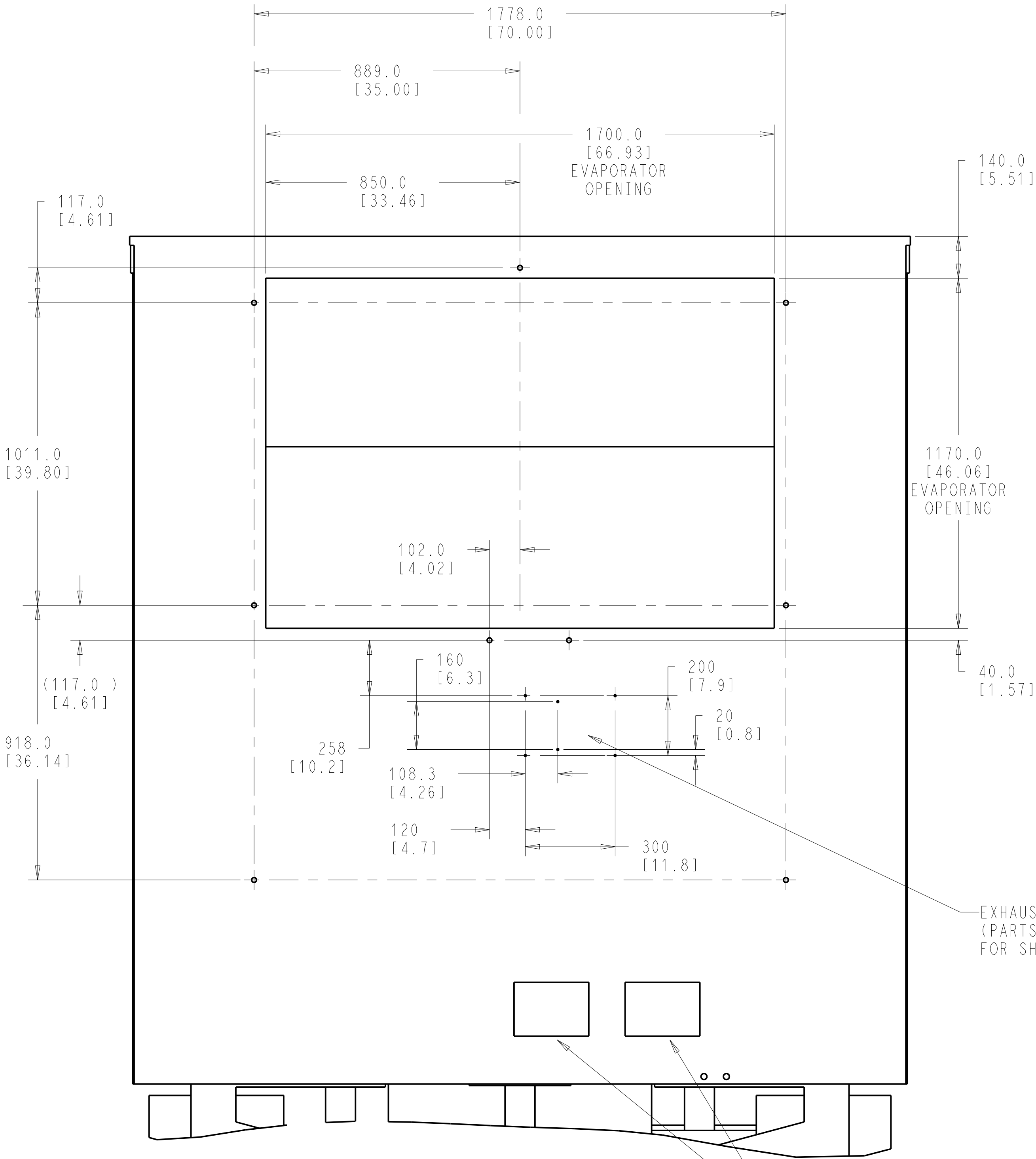
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TRAILER FRONT WALL
WITH UNIT GASKET
IN PLACE.

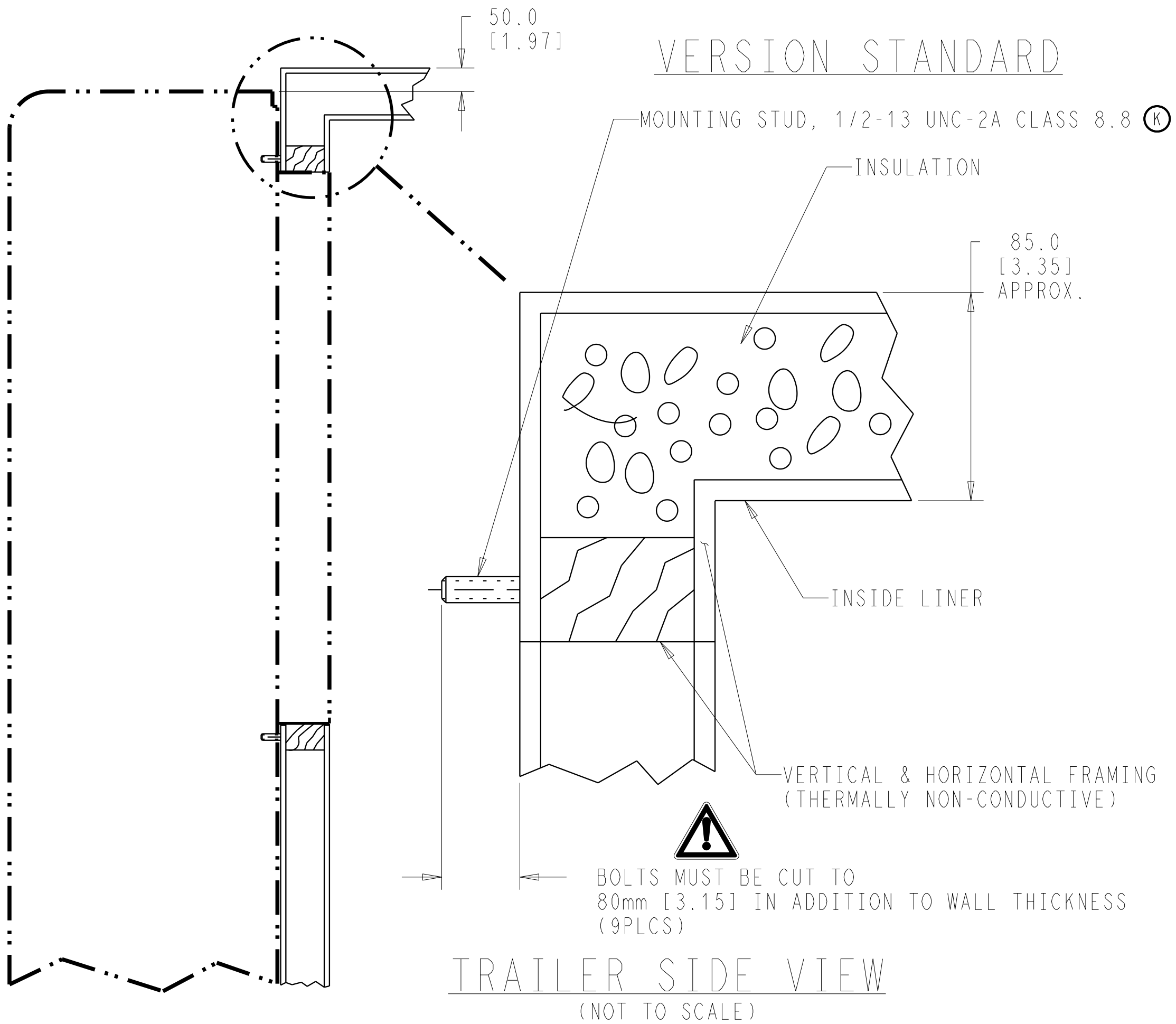


TRAILER FRONT WALL

TYPICAL GLADHAND
LOCATIONS

TRAILER BODY PREPARATION

HE17

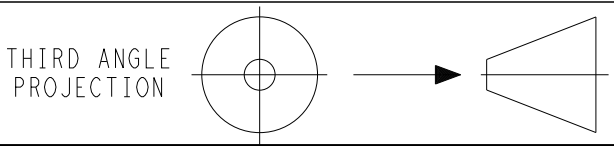


TRAILER SIDE VIEW
(NOT TO SCALE)

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
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CAUTION: TRAILER SURFACES THAT CONTACT THE UNIT MOUNTING GASKET SHOULD
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SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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TITLE
INSTALLATION INSTRUCTIONS
VECTOR HE17

DRAWING NO.	REV
98-60812	K
SHEET 5 OF	

SUPERSEDES: _____

PART CLASSIFICATION: US _____

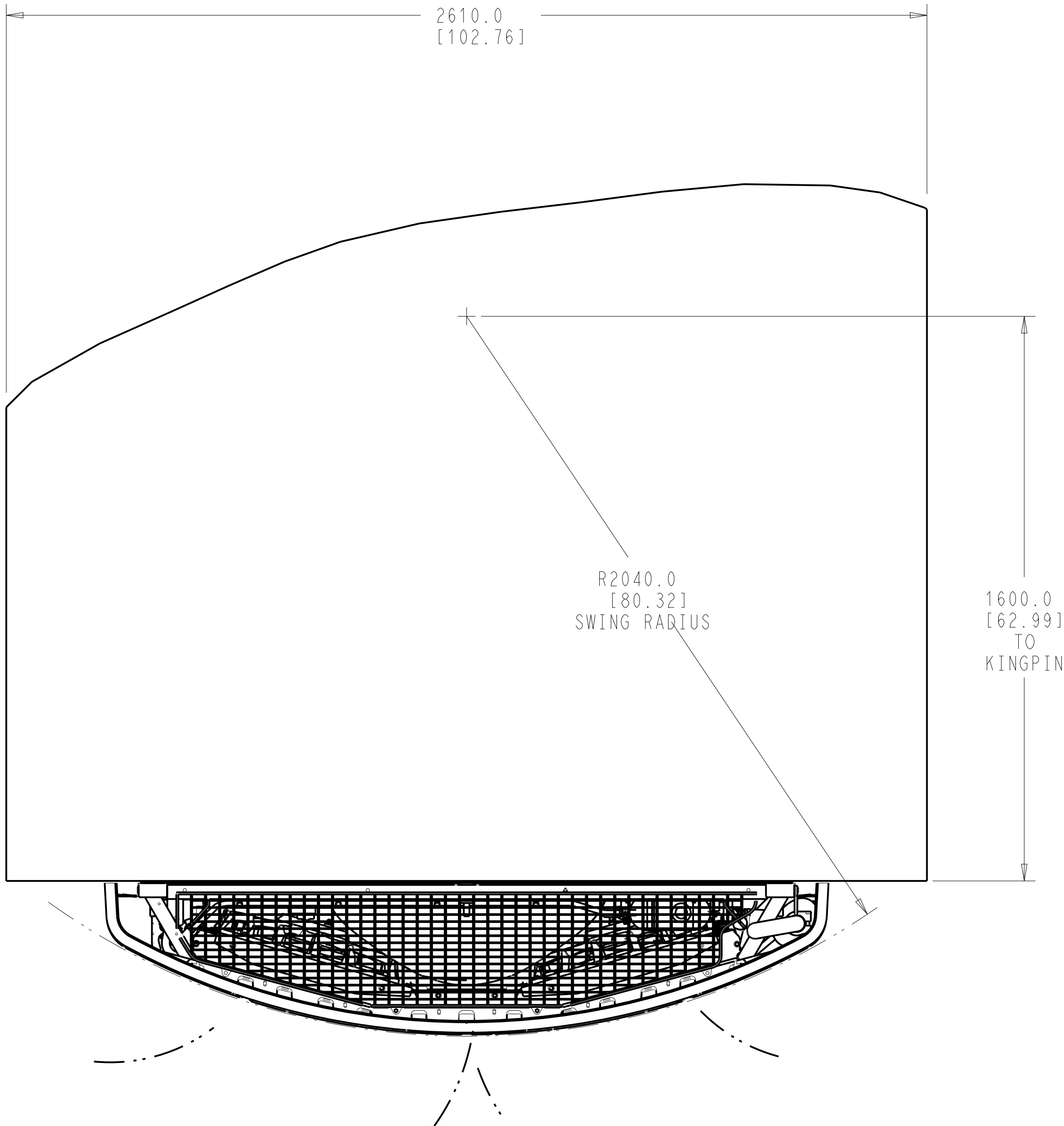
DRAWING CLASSIFICATION: US EAR99



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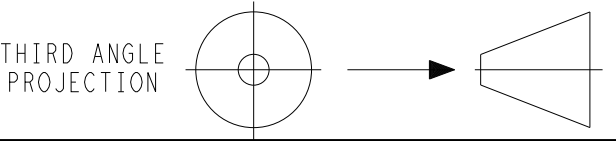
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SWING RADIUS
SCALE 0.100

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



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WITH IMPERIAL CONVERSIONS IN [INCHES]

TITLE	INSTALLATION INSTRUCTIONS VECTOR HE19/HE17
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DRAWING NO.	98-60812	REV	G
		SHEET 6 OF	

SUPERSEDES: _____

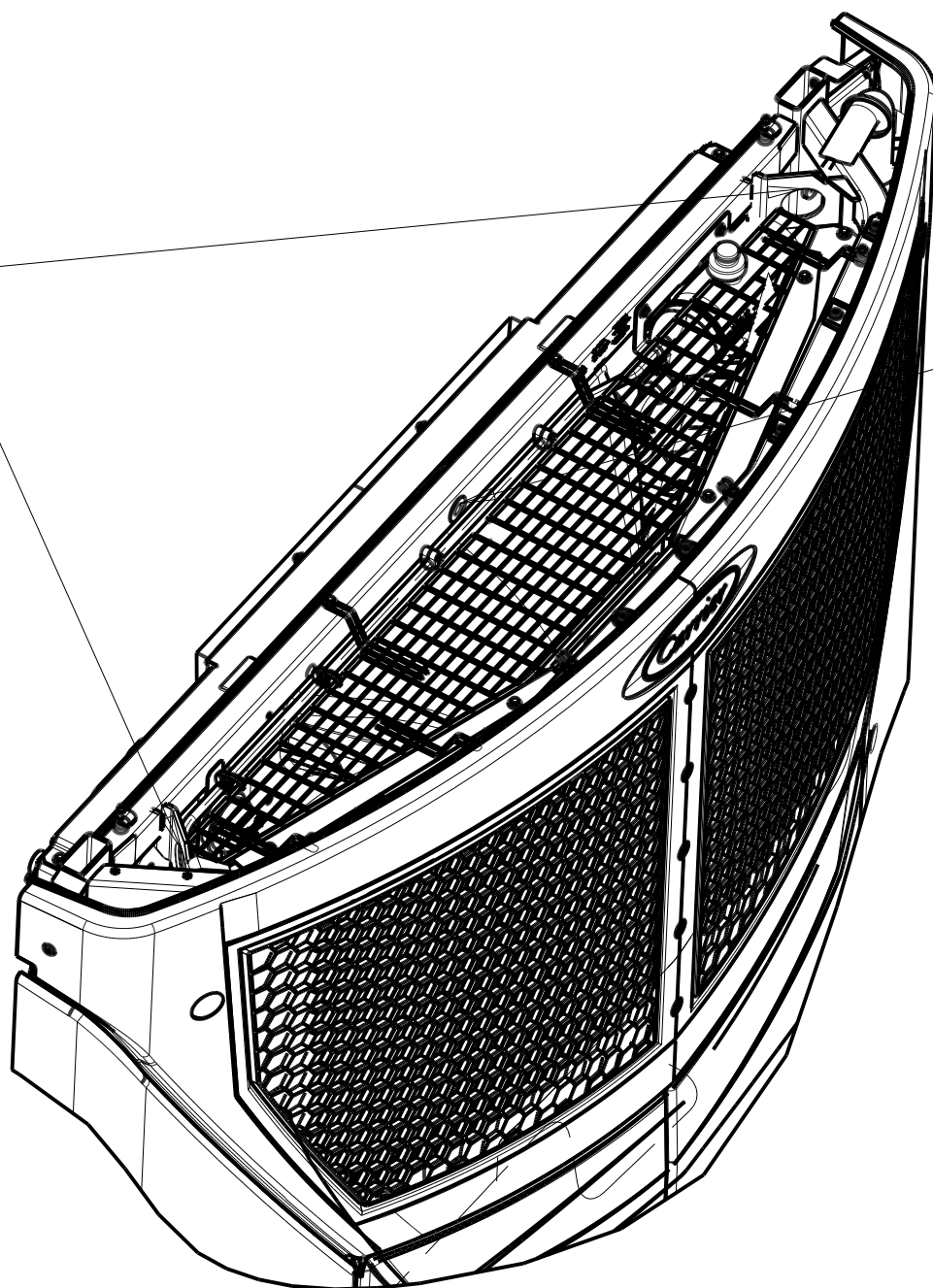
PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

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

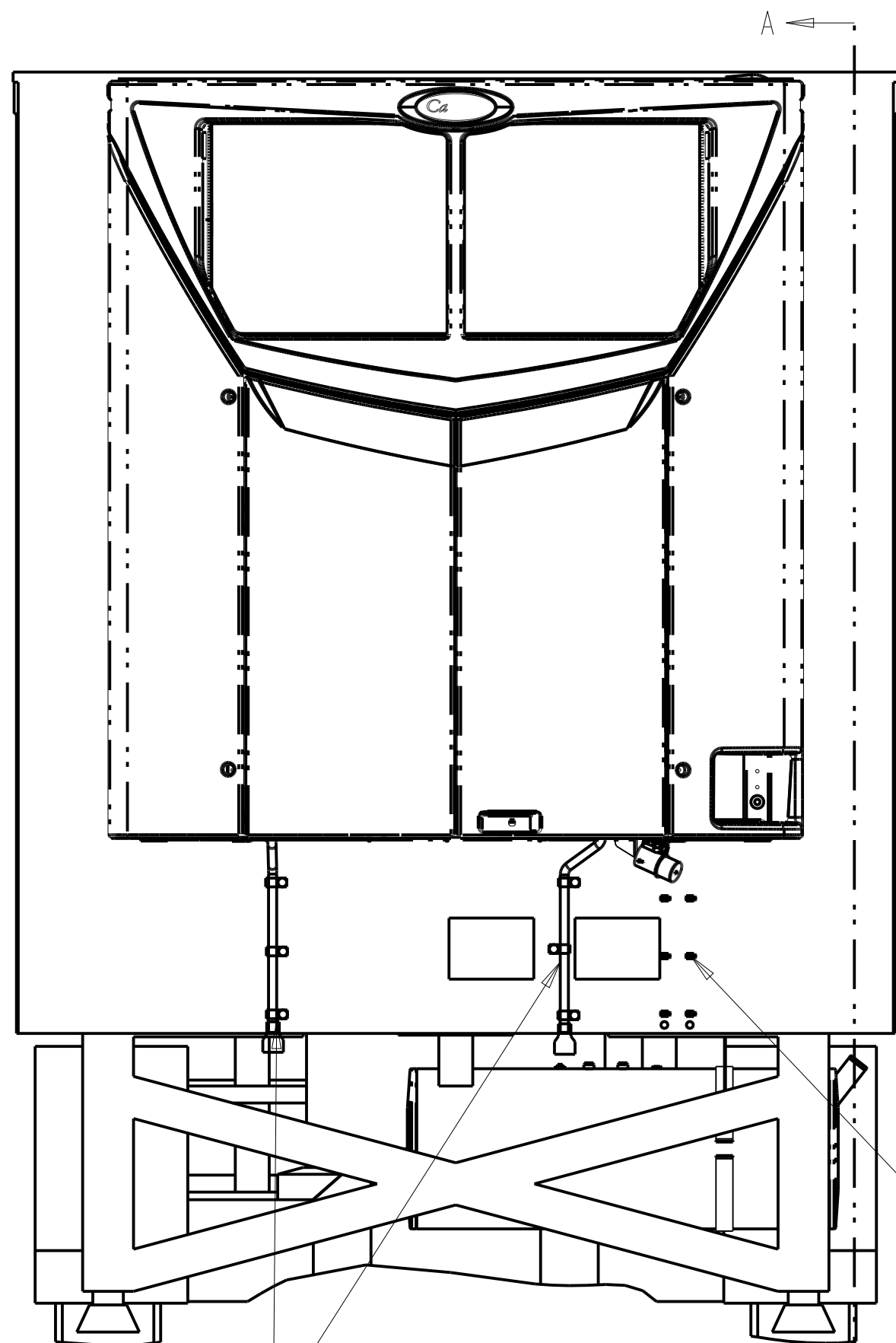
UNIT LIFTING LOCATIONS

MIDDLE TOP FIXING
POINT



CONDENSER AIR
(FRONT FACE ONLY)

85
[3.3]
APPROX



100
[3.9]
SEE NOTE 9

50
[2.0]
RECESSED WALL
(OPTIONAL)

50 55
6 6

2000
[78.7]
MAXIMUM HEIGHT
OF PALLET

2650
[104.3]
INTERNAL BOX
HEIGHT

130
[5.1]
APPROX

SECTION A-A
SCALE 0.059

50 55
2 2

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. 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:

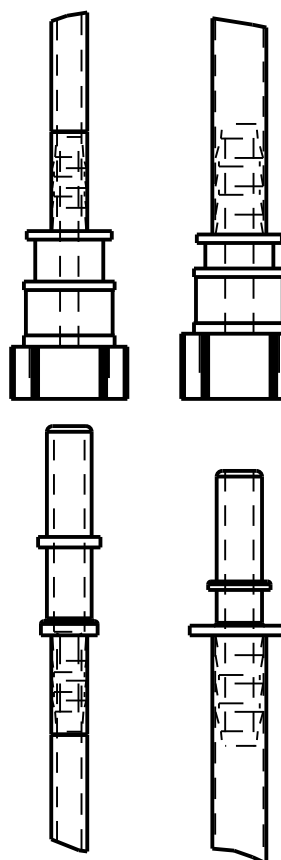
- 6.0 RAISE THE UNIT AND INSTALL IN THE BODY OPENING. ENSURE THAT ALL
EIGHT STUDS ARE FULLY ENGAGED IN THE UNIT FRAME. PLACE WASHER (ITEM 30)
AND LOCK-NUT (ITEM 15) IN EACH OF THE 8 STUDS (1/2-13 UNC-2A CLASS 8.8)
(NOTE: THE LOWER CENTER STUDS MUST BE ACCESSED FROM THE FRONT OF THE
UNIT). SNUG THE NUTS, THEN EVENLY TIGHTEN ALL EIGHT TO
75-80 FT-LB/101.7-108.5 NM DRY 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 CIRCULATION AND PRODUCT PROTECTION, CARRIER TRANSCOLD
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 TRANSITION 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)

BLACK
OUTLET

RED
INLET



A
A
SEE SHEET 8

K UPDATED INSTALLATION INSTRUCTION 1.0 & 6.0

04 JUN 2025

LT-AM

ECN1196109

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

K

SUPERSEDES:

PART CLASSIFICATION: US EAR99

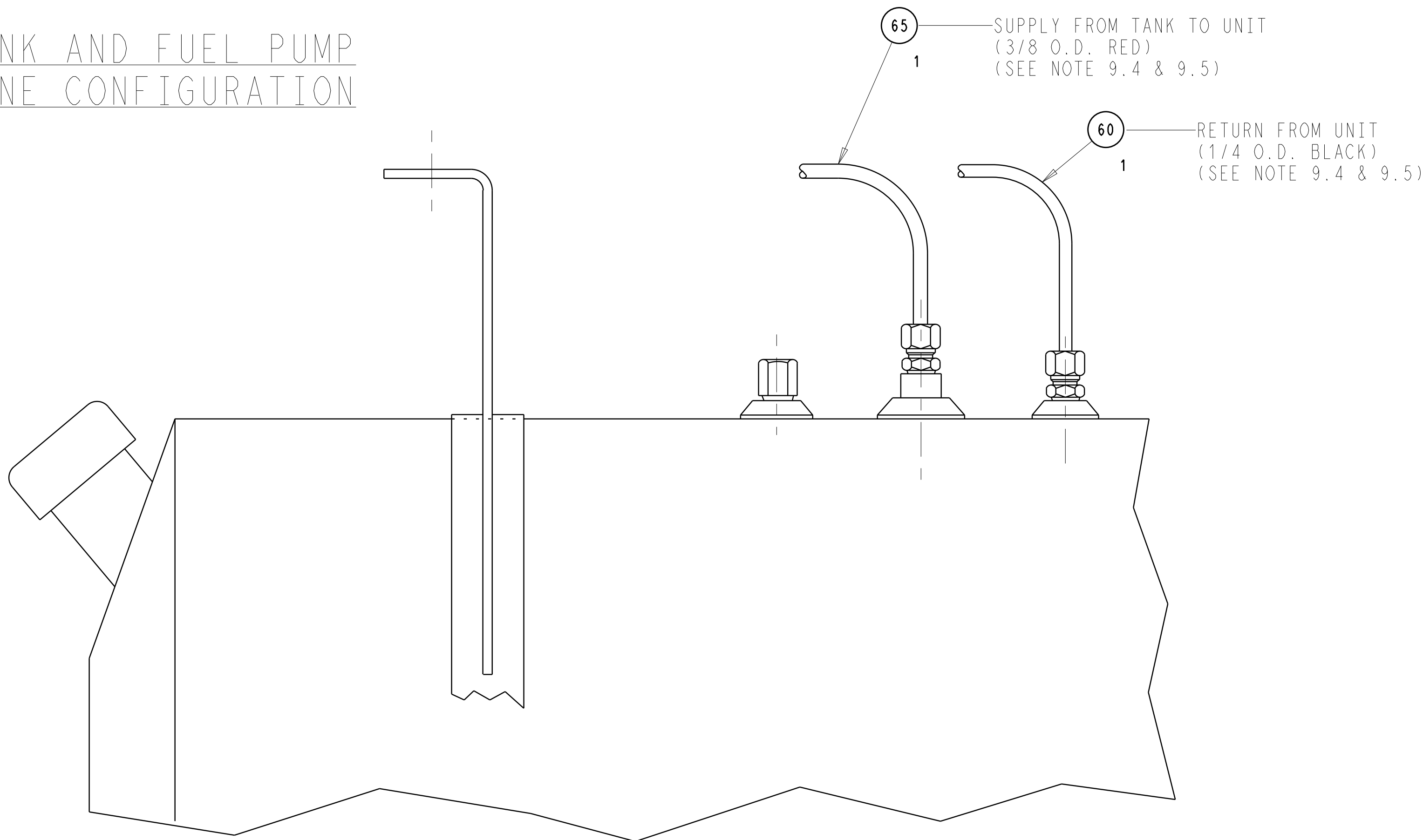


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TANK AND FUEL PUMP LINE CONFIGURATION



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 ± 38.1 [1.50]

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 25.4 [1.00], THEN TIGHTEN THE COMPRESSION NUT.

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	101.7-108.5		75-80	
	(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, 19.1 [0.75] 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.

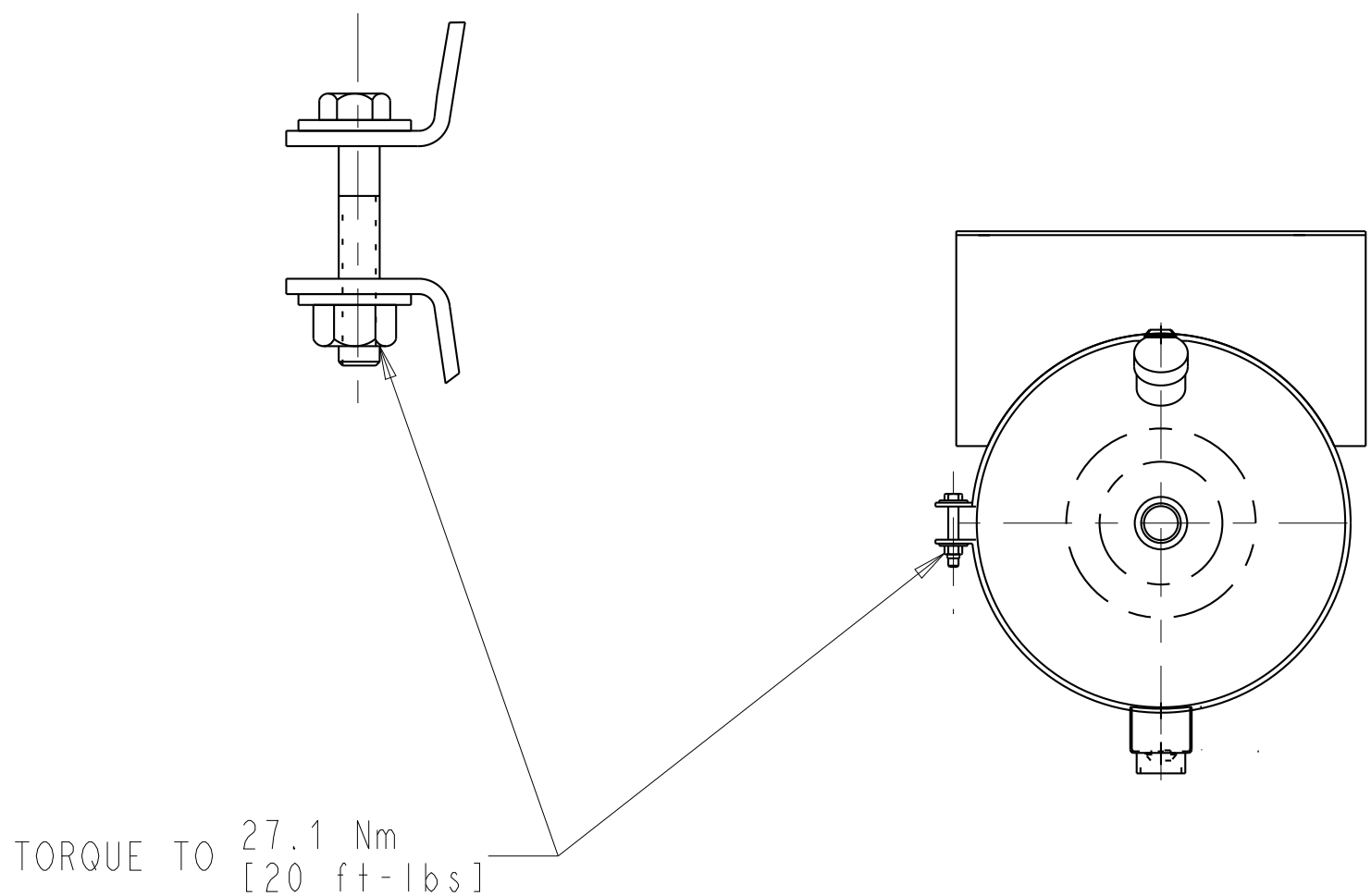
14.0 OPERATE UNIT IN CONTINUOUS RUN (MANUAL) MODE FOR A MINIMUM OF 8 HOURS (12 HOURS PREFERRED). PERFORM FINAL INSPECTION ON UNIT.

UNITS SUPPLIED WITH BATTERY INSTALLED

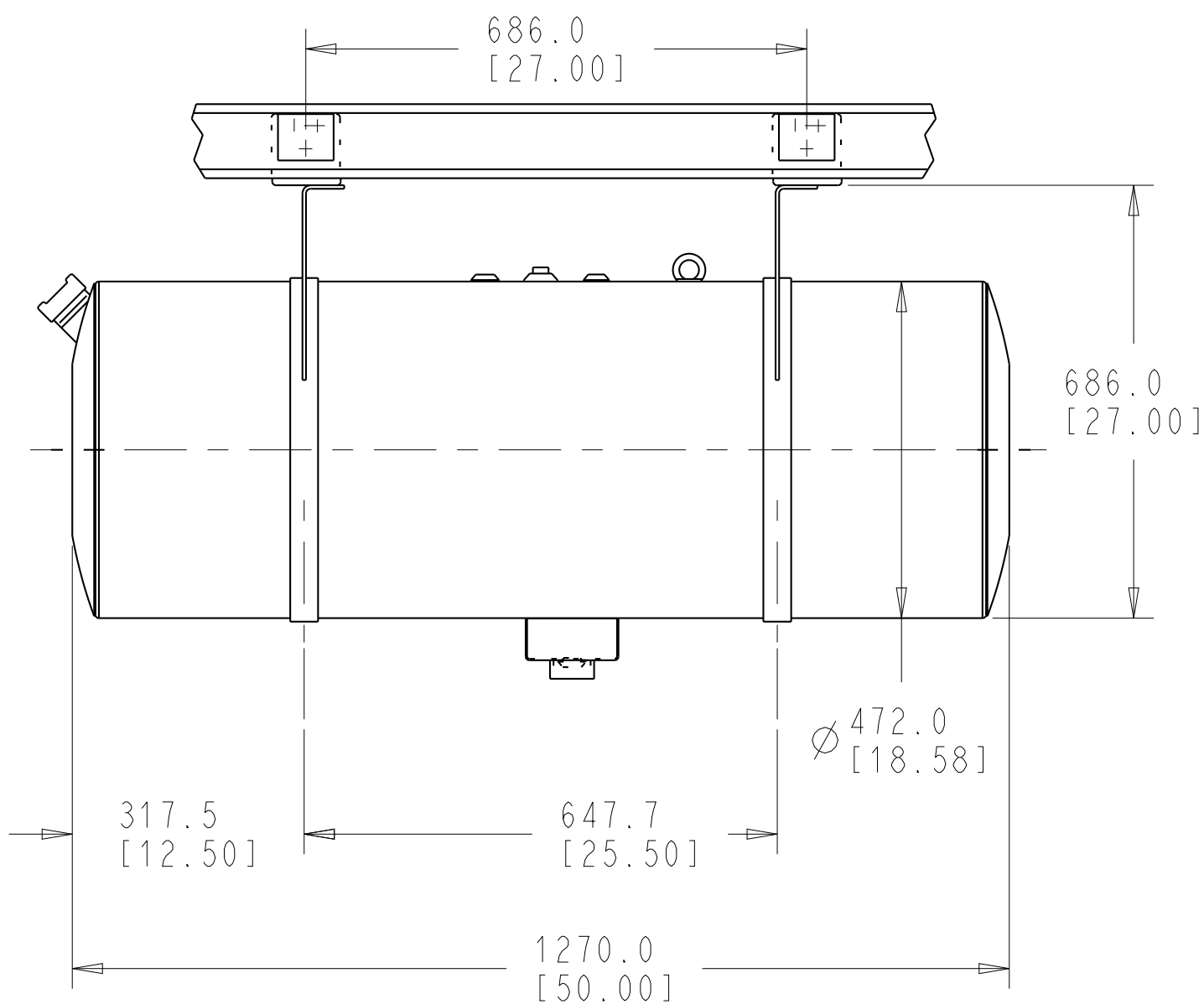
15.0 CUT WIRE TIE(S) THAT HOLD CABLES TO UNIT FRAME.

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.

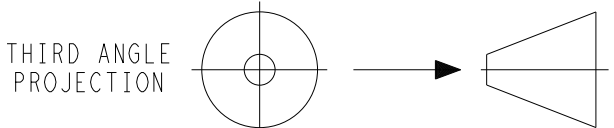


50 GALLON TANK



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

K	UPDATED FUEL TANK INSTALLATION INSTRUCTION 10.0	04 JUN 2025	LT-AM			ECN1196109
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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 8 OF

REV
K

SUPERSEDES:

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

ONLY FOR VECTOR HE 19 B100 BIODIESEL UNIT

THIS PROCEDURE DESCRIBES A TYPICAL INSTALLATION. PLEASE REFER TO THE BODYBUILDER REQUIREMENTS FOR ADDITIONAL INFORMATION

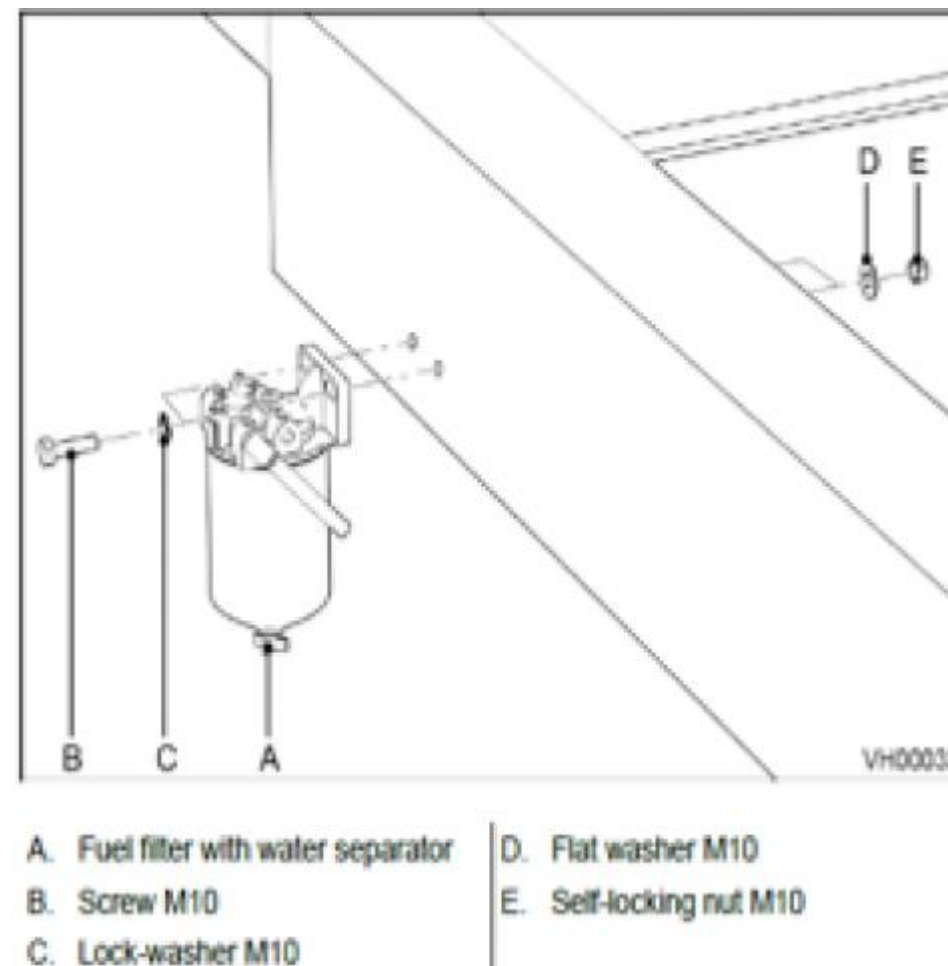
USE ONLY THE COUPLINGS, FUEL HOSES AND ADDITIONAL FUEL FILTER WITH WATER SEPARATOR SUPPLIED IN THE INSTALLATION KIT.

IF B100 BIODIESEL FUEL, IS USED, THE COPPER, BRASS AND ZINC PARTS OF THE FUEL SYSTEMS MAY CORRODE, OR THE DAMAGE OF THE RUBBER AND RESIN PARTS MAY OCCUR.

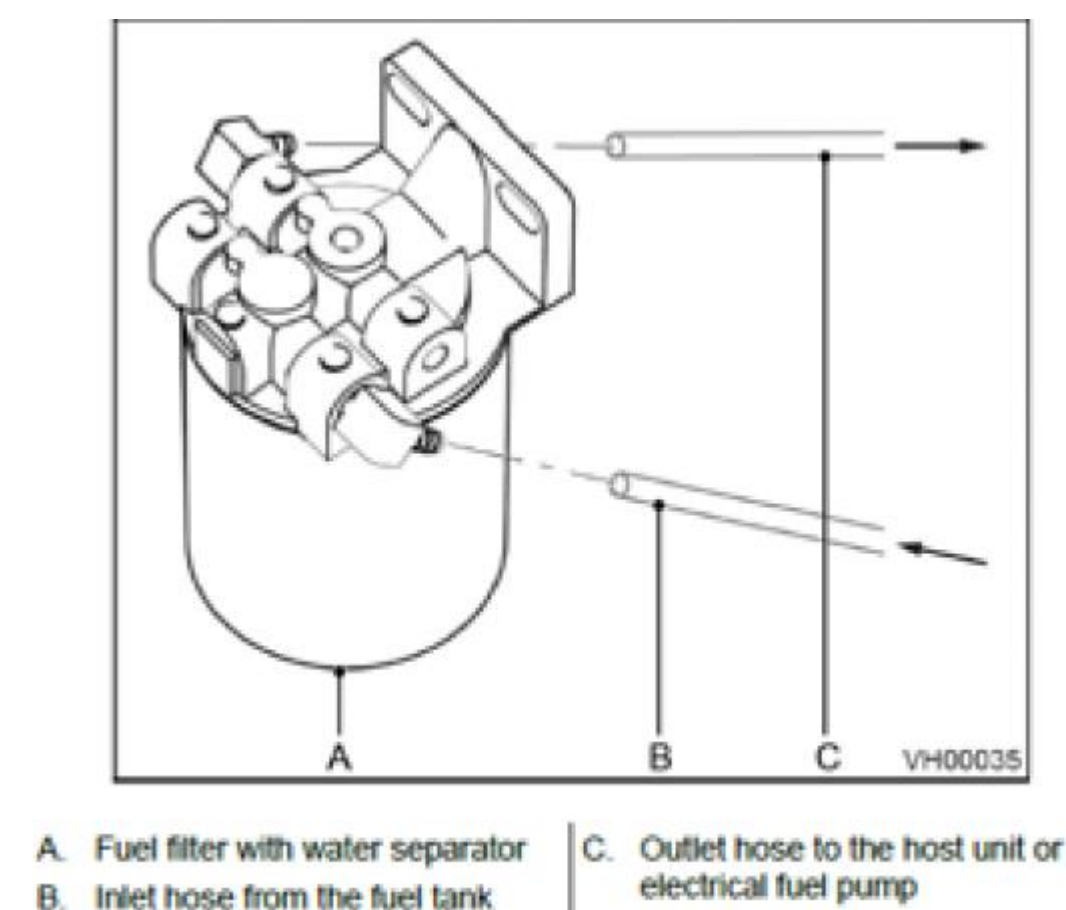
THERE ARE CONCERNS ABOUT RUBBER MATERIALS (NBR), SUCH AS SWELLING DUE TO BIO DIESEL FUEL AND LEAKAGE OF FUEL. IF NBR IS USED FOR FUEL TANKS, FUEL FILTERS, FUEL HOSES, ELECTROMAGNETIC PUMPS, CHECK VALVES (IF ANY), AND JOINTS, PLEASE CHANGE TO MATERIALS THAT ARE RESISTANT TO BIODIESEL FUEL SUCH AS FLUORINE.

DIESEL IS A POLLUTING SUBSTANCE. ANY DIESEL LEAKAGE FROM THE FUEL SYSTEM MUST NOT BE RELEASED INTO THE ENVIRONMENT AND MUST BE REPAIRED AS SOON AS POSSIBLE.

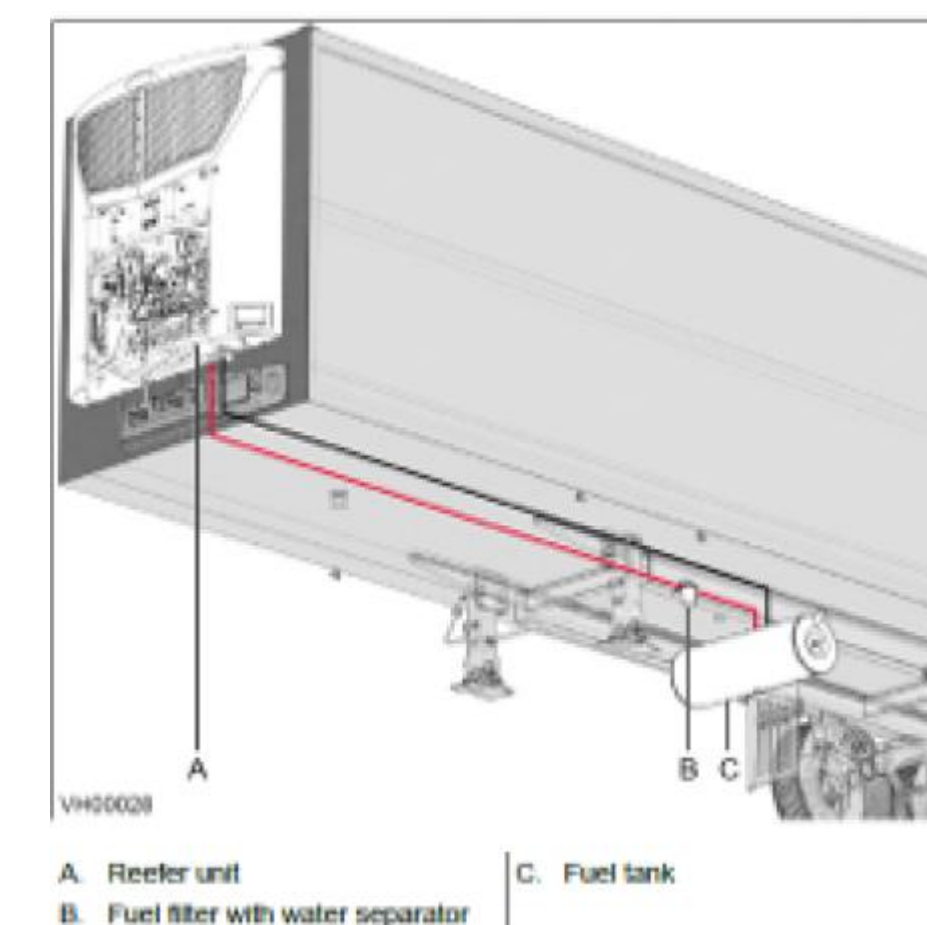
- 1** PUT IN POSITION THE FUEL FILTER AND INSTALL IT WITH THE FIXATIONS SUPPLIED IN THE INSTALLATION KIT.



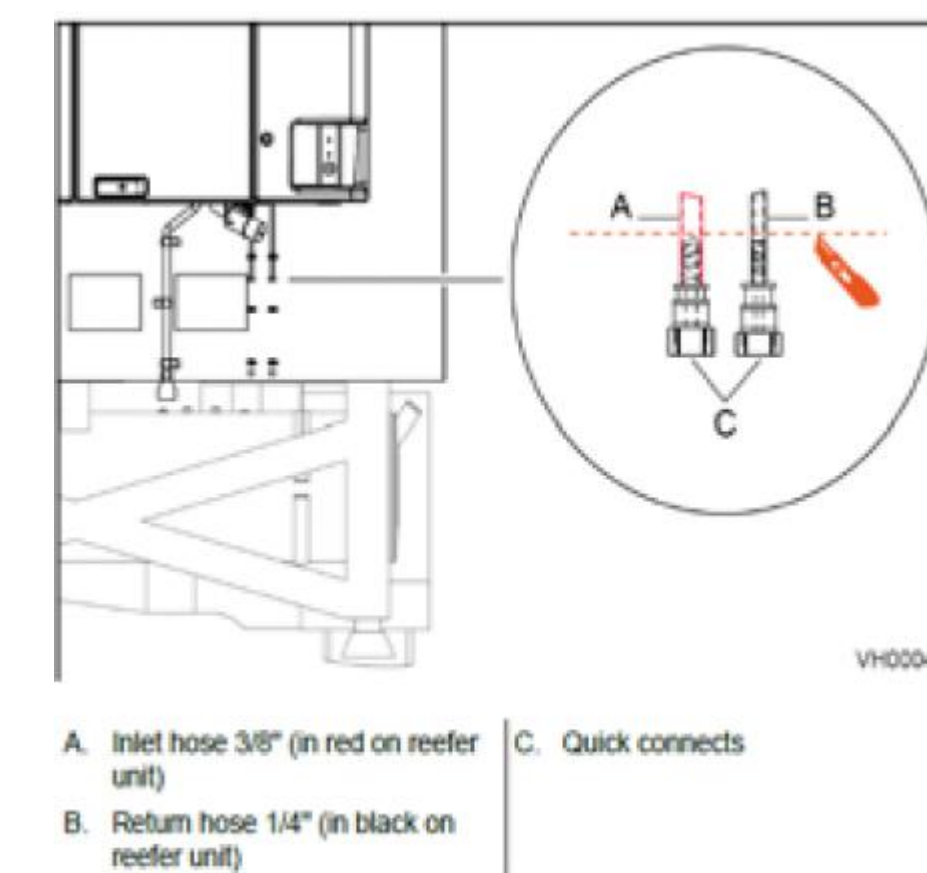
- 2** CONNECT THE HOSES TO THE FUEL FILTER WITH COUPLING SUPPLIED IN THE INSTALLATION KIT.




- 3** ROUTE THE HOSES THROUGH CHASSIS ACCORDING TO THE BODYBUILDER RECOMMENDATION AND CUT IT TO THE APPROPRIATE LENGTH USING A CUTTER.



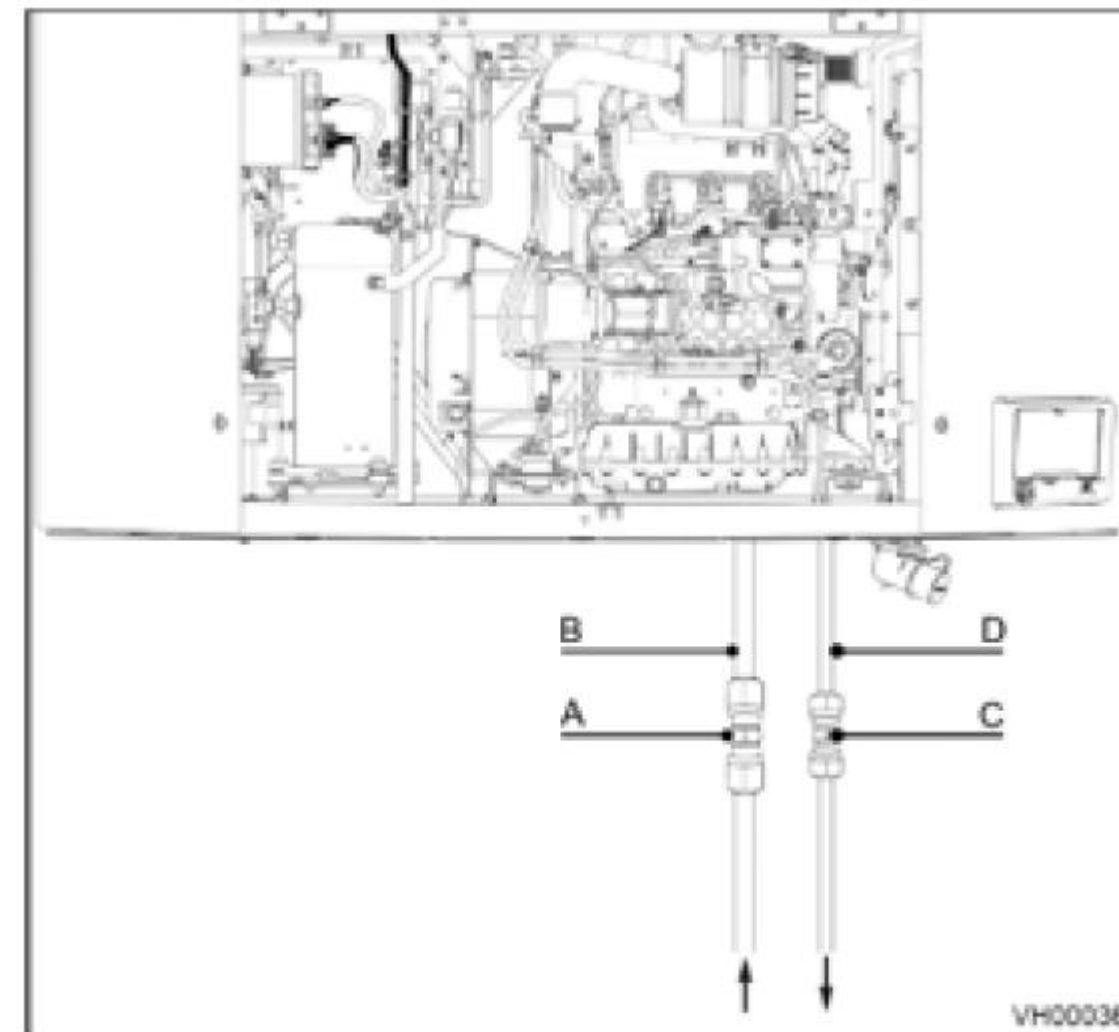
- 4** CUT THE QUICK CONNECTS OF THE HOST UNIT.



J	ADDED THIS SHEET.	14 MAR 2025	LT-AU			ECN1185256	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 9 OF	REV J
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.						
SUPERSEDES: _____										PART CLASSIFICATION: US		

5

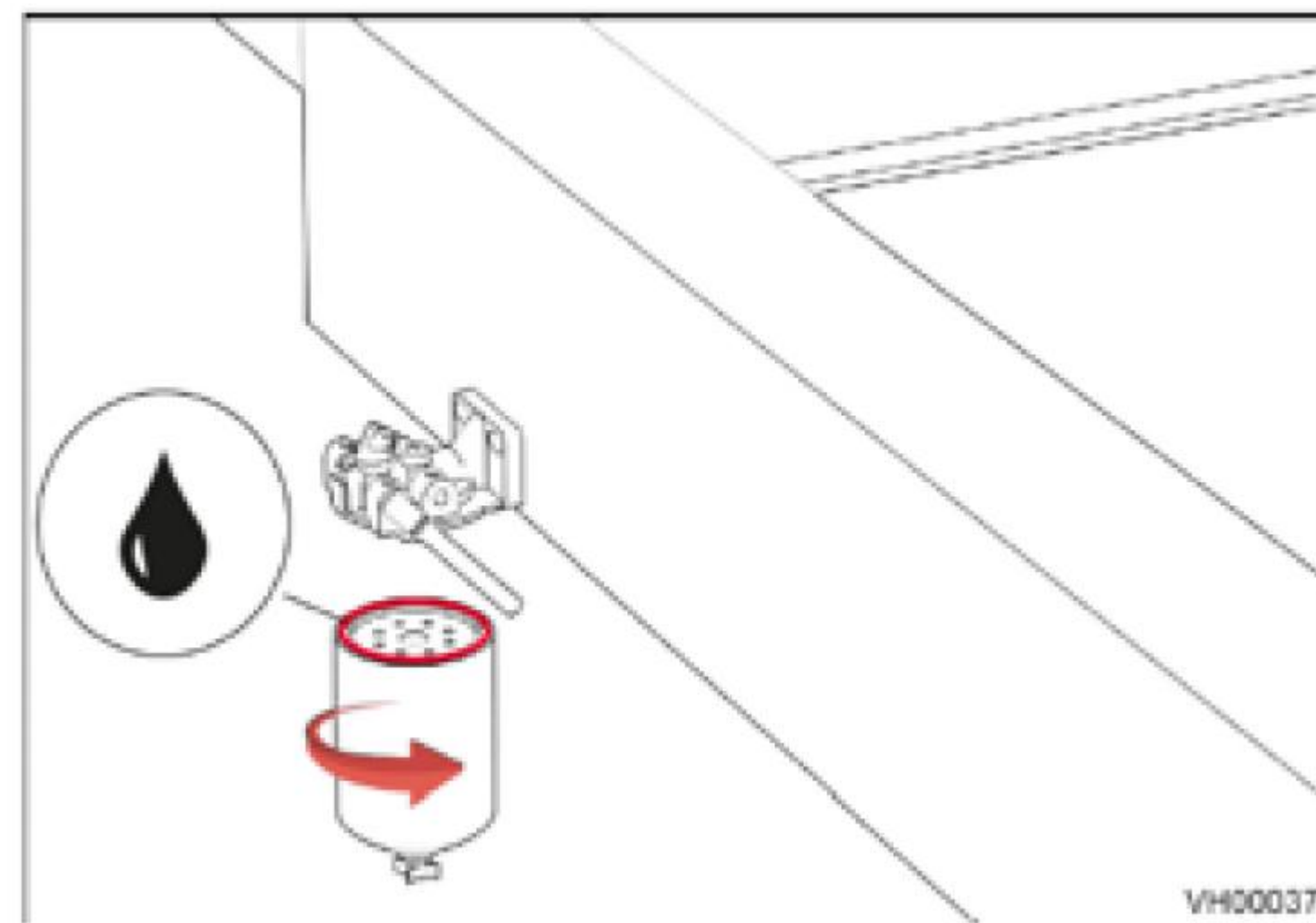
INSTALL THE COUPLINGS SUPPLIED IN THE INSTALLATION KIT AND CONNECT THE FUEL TANK HOSES TO THE REEFER UNIT HOSES



- A. Coupling 3/8" NPS
B. Inlet hose (in red on reefer unit)
C. Coupling 1/4" NPS
D. Return hose to the fuel tank (in black on reefer unit)

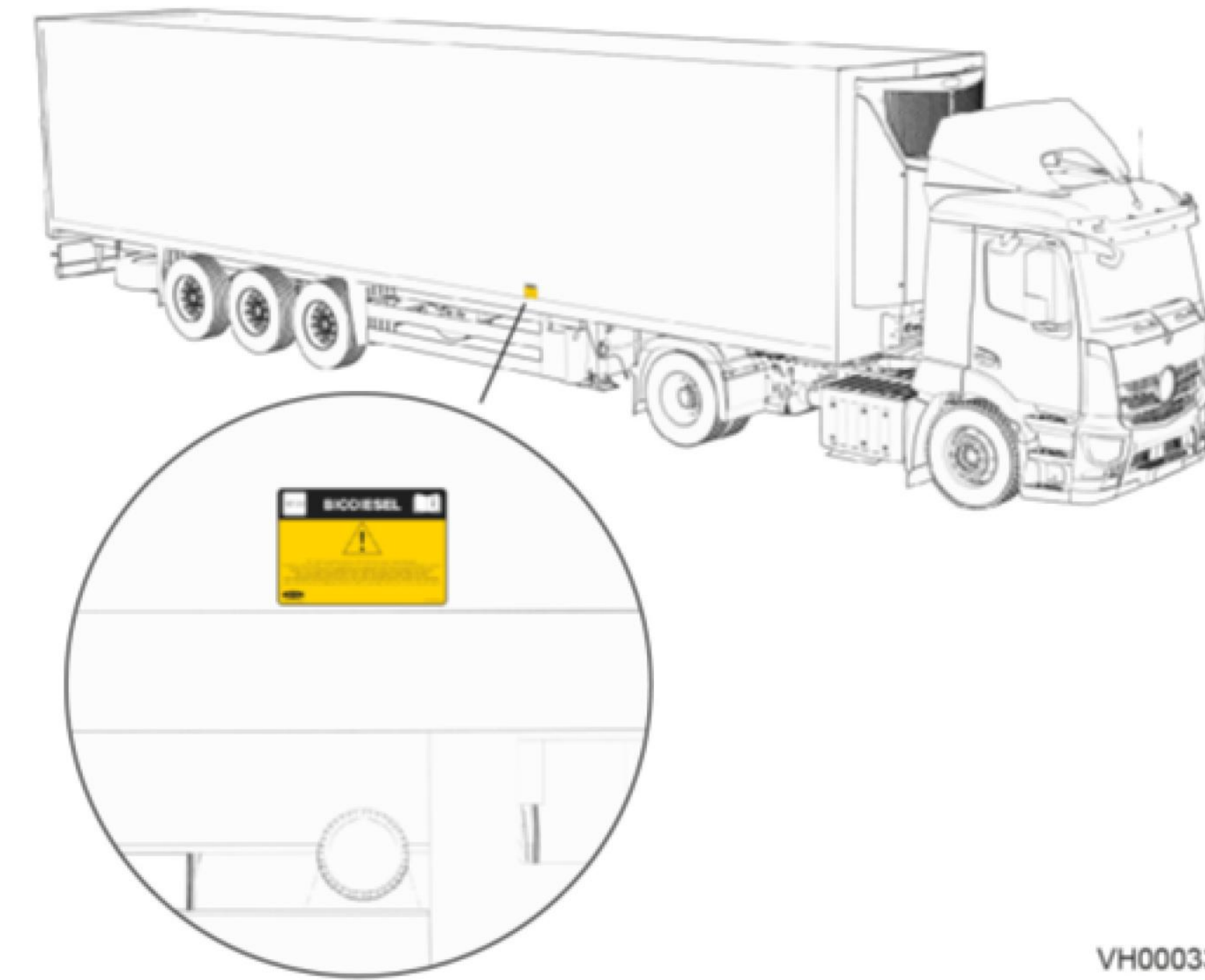
6

INSTALL THE WATER SEPARATOR
1)-FILL THE WATER SEPARATOR WITH FUEL.
2)-APPLY LUBRICANT ON THE WATER SEPARATOR SEAL.
3)-TIGHTEN FIRMLY BY HAND THE WATER SEPARATOR TO THE FITTING.
4)-CHECK FOR LEAKS



7

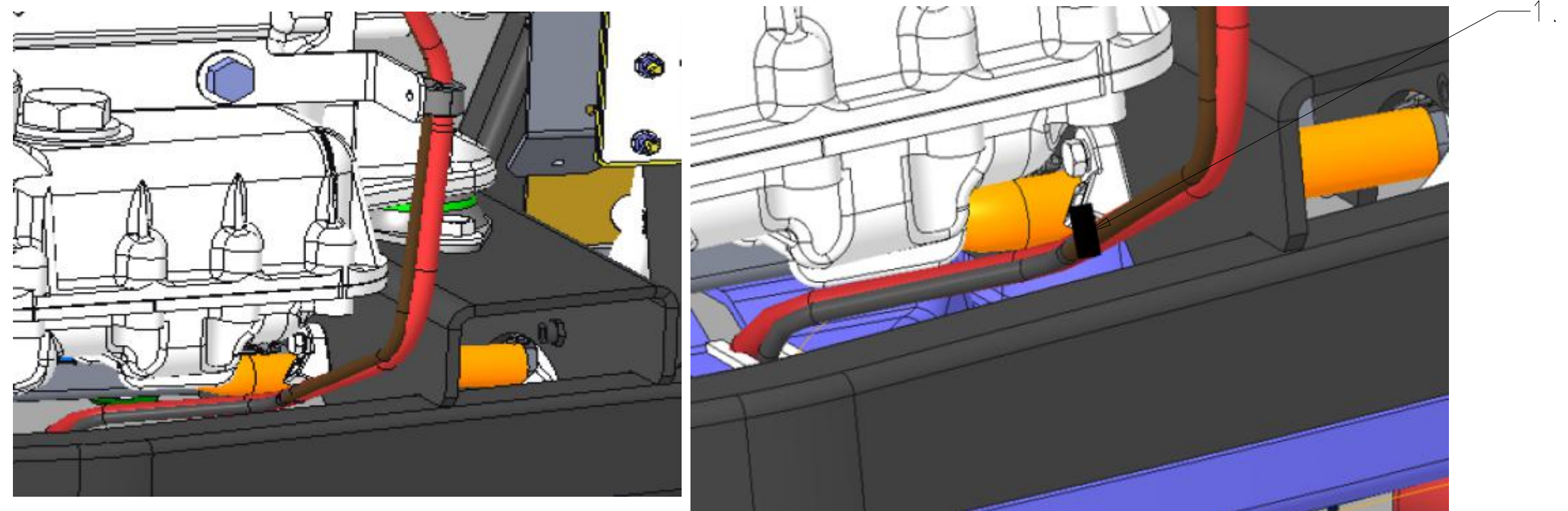
STICKER (62-70315-00) IS SUPPLIED INTO THE MOUNTING KIT. IT MUST BE STICKED AS INDICATED BELOW. STICKER MUST BE STICKED ON THE TRAILER BOX WHERE YOU MUST FILL THE FUEL TANK.



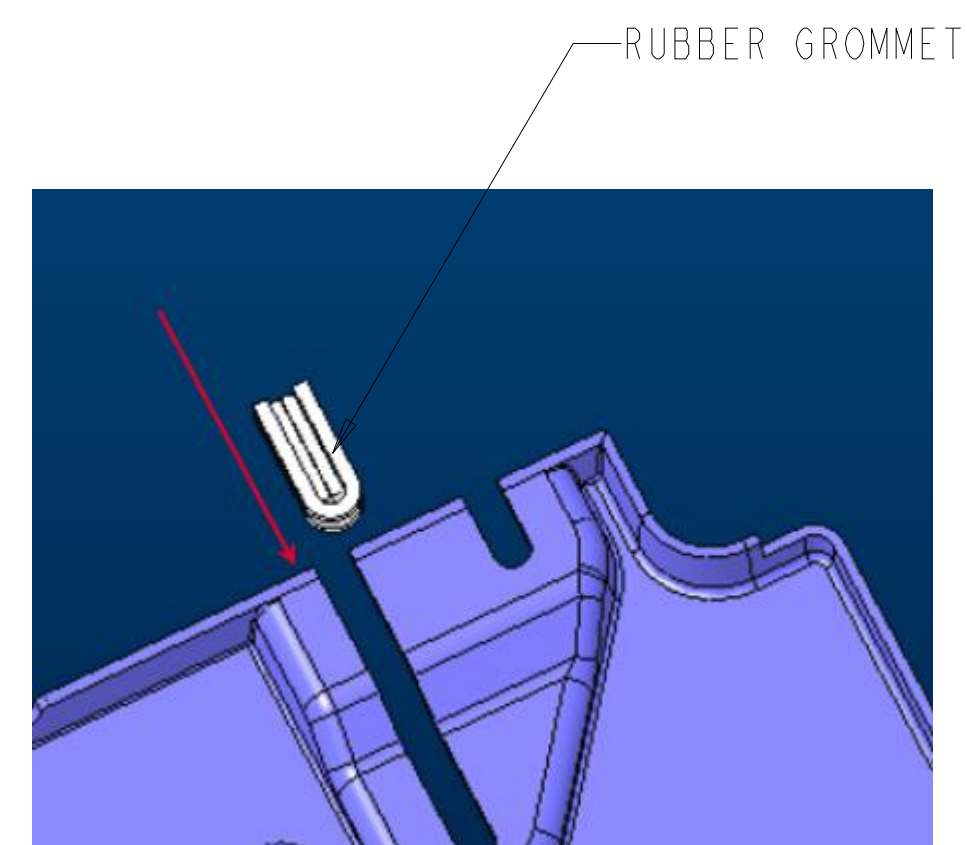
J	ADDED THIS SHEET.	14 MAR 2025	LT-AU			ECN1185256	THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS SHOWN ARE IN MILLIMETERS, WITH IMPERIAL CONVERSIONS IN [INCHES]	TITLE	INSTALLATION INSTRUCTIONS VECTOR HE17	DRAWING NO.	98-60812	REV	J
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.						SHEET 10 OF		
									SUPERSEDES:		PART CLASSIFICATION: US			


MOUNTING WITH BOTTOM PANEL:

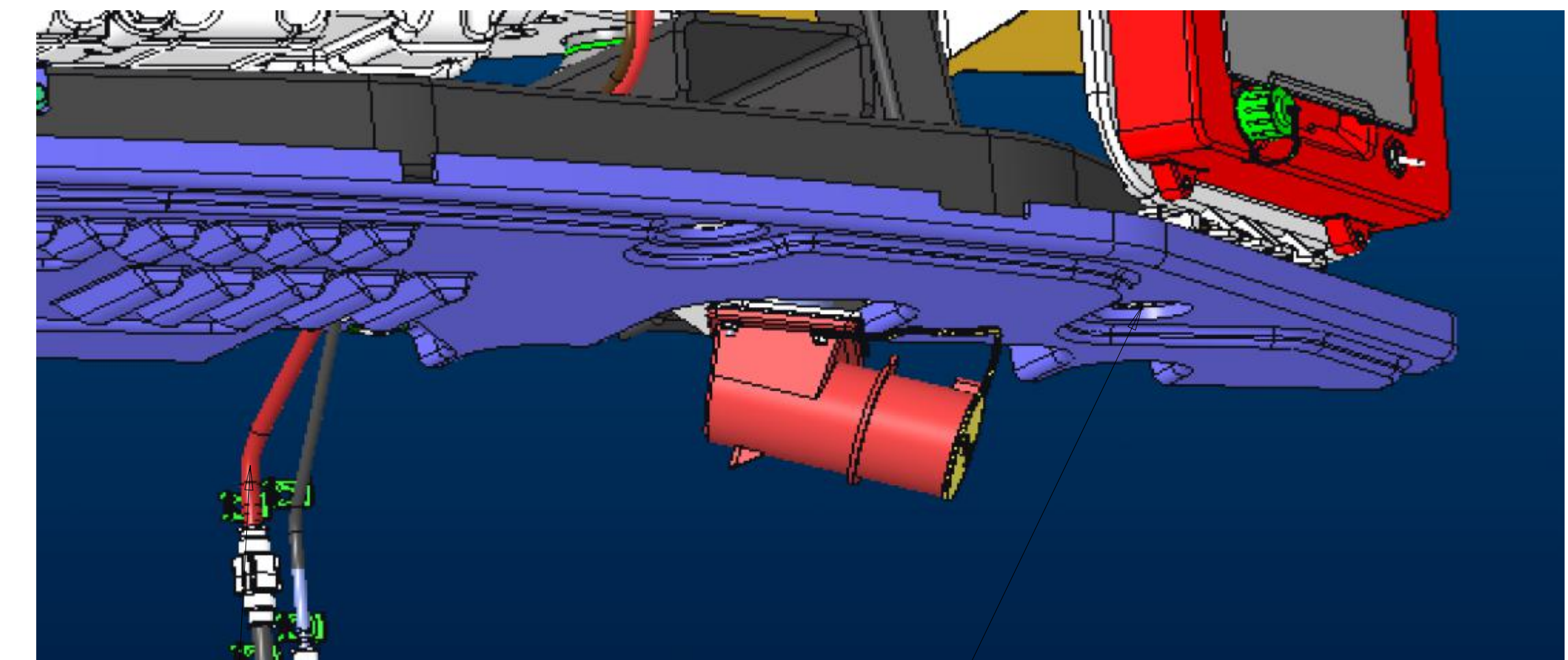
- 1** 1.1) -USE THE PLATIC BASE FIX TO THE FRAME IN ORDER TO TIE THE FUEL HOSES WITH A TY -RAP.
1.2) -USE THE DUAL CLAMP DILIVER WITH THE BOTTOM PANNEL IN ORDER TO SEPERATE THE
STAND-BY PLUG FROM THE FUEL LINE .



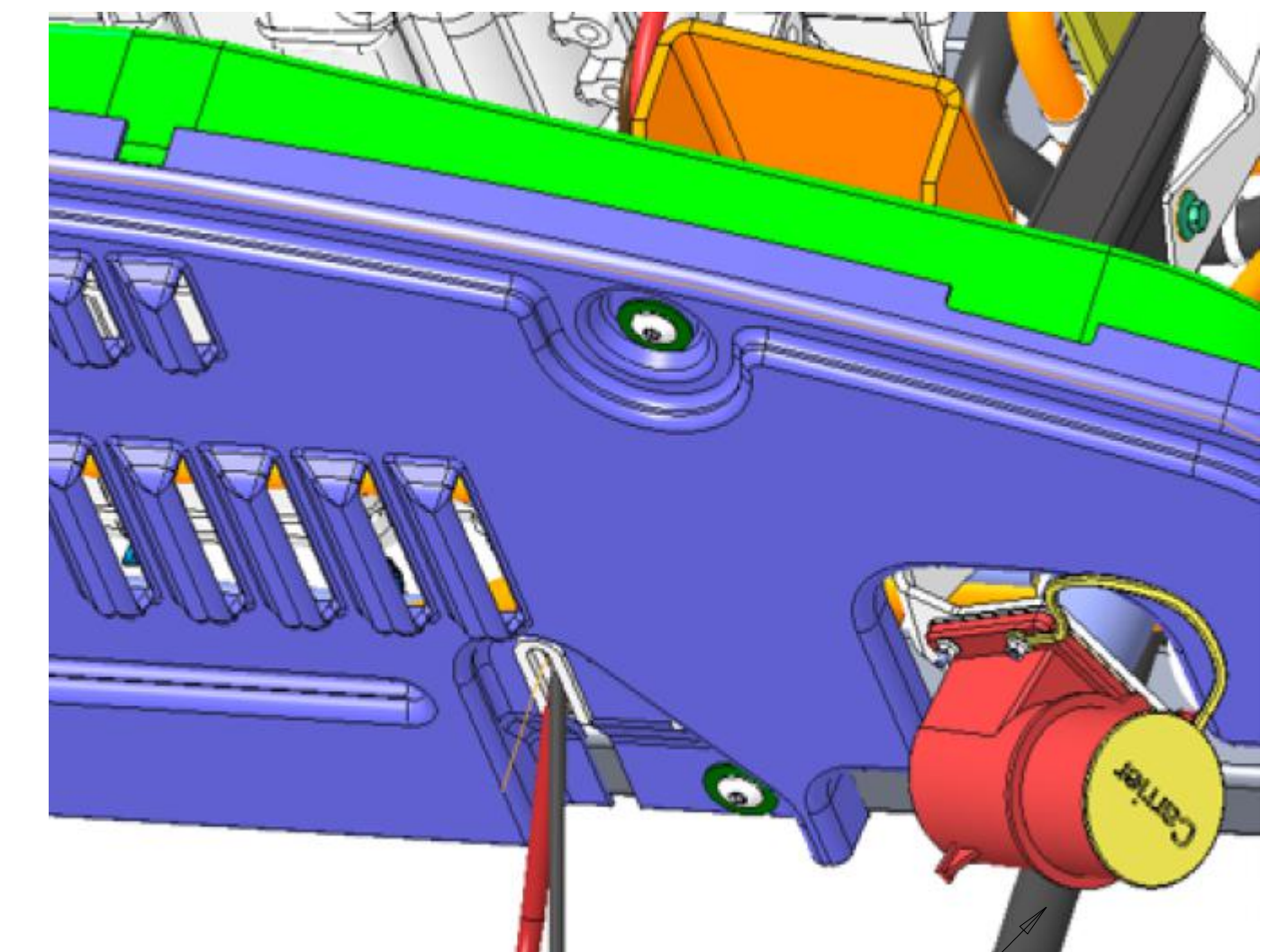
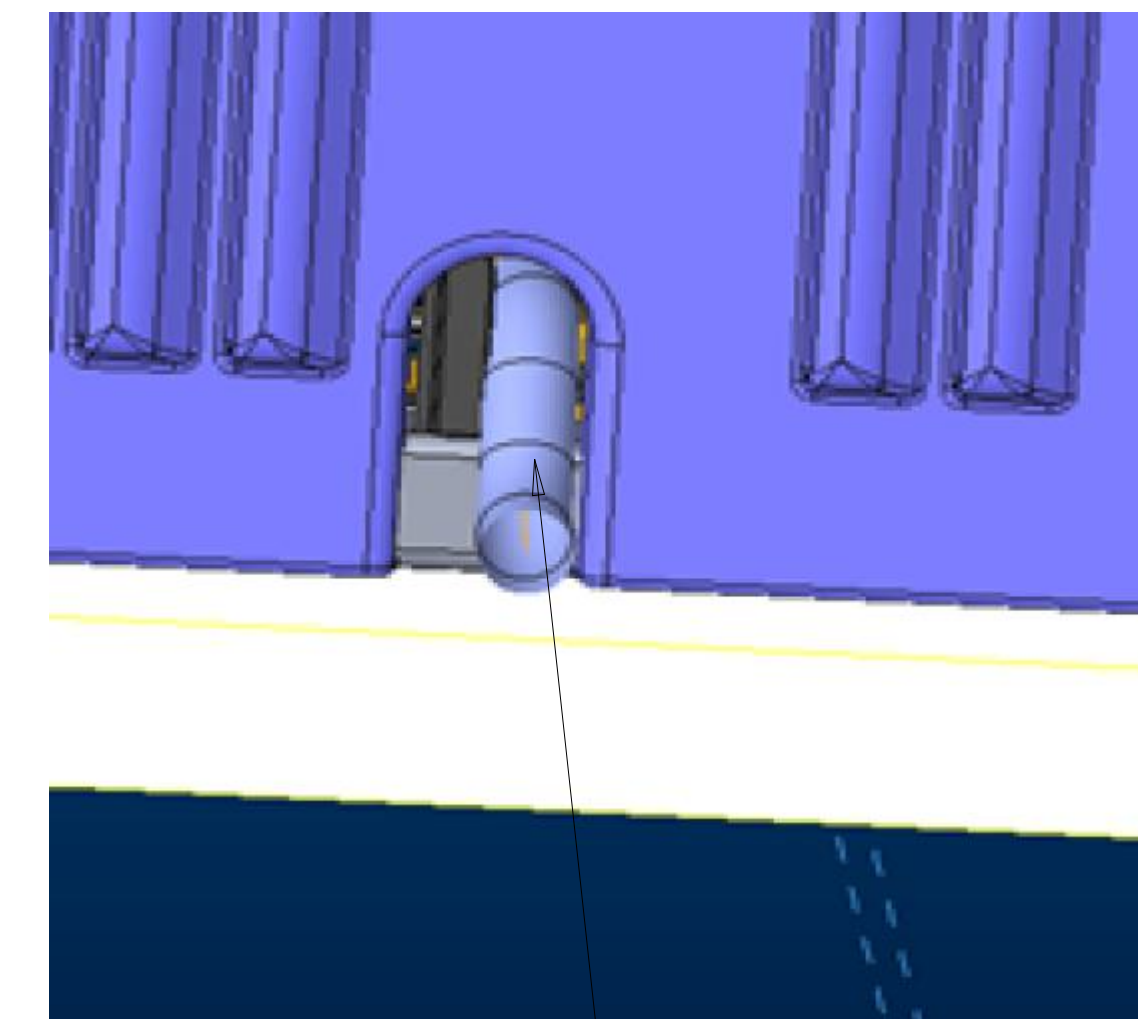
- 2**  INSERT THE RUBBER GROMMET INTO THE SLOT MACHINED ON THE BOTTOM PANNEL



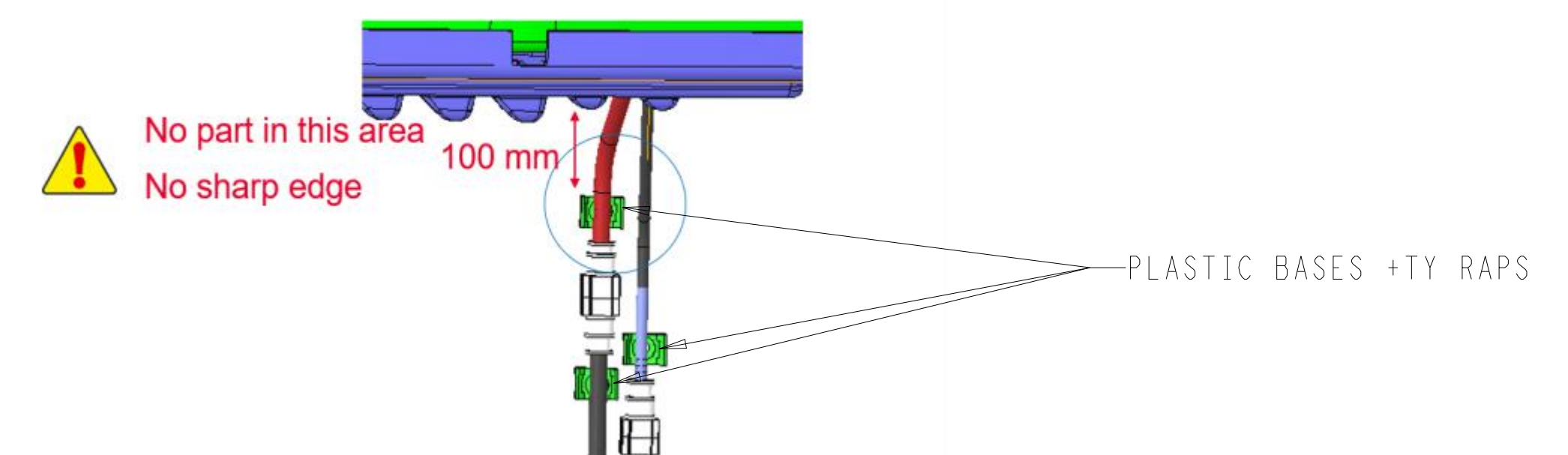
- 3** -FIX THE BOTTOM PANEL TO THE UNIT AND PASS FUEL HOSES THROUGH THE RUBBER GROMMET
-THE DRAIN HOSE WILL PASS BEHIND THE STAND BY PLUG FOR THE ROADSIDE AND THROUGH THE
COMPRESSOR BRACKET AND IN THE SLOT OF THE BOTTOM PANNEL FOR THE CURBSIDE.DRAIN HOSES
WILL BE FIXED TO THE BODY BY USING PLASTIC BASES AND TY-RAPS.
 -MAKE SURE THERE IS NO CONTACT BETWEEN THE FUEL HOSES AND THE COMPRESSOR HARNESS



COUPLE DE SERRAGE :10 Nm
TIGHTENING TORQUE :10Nm



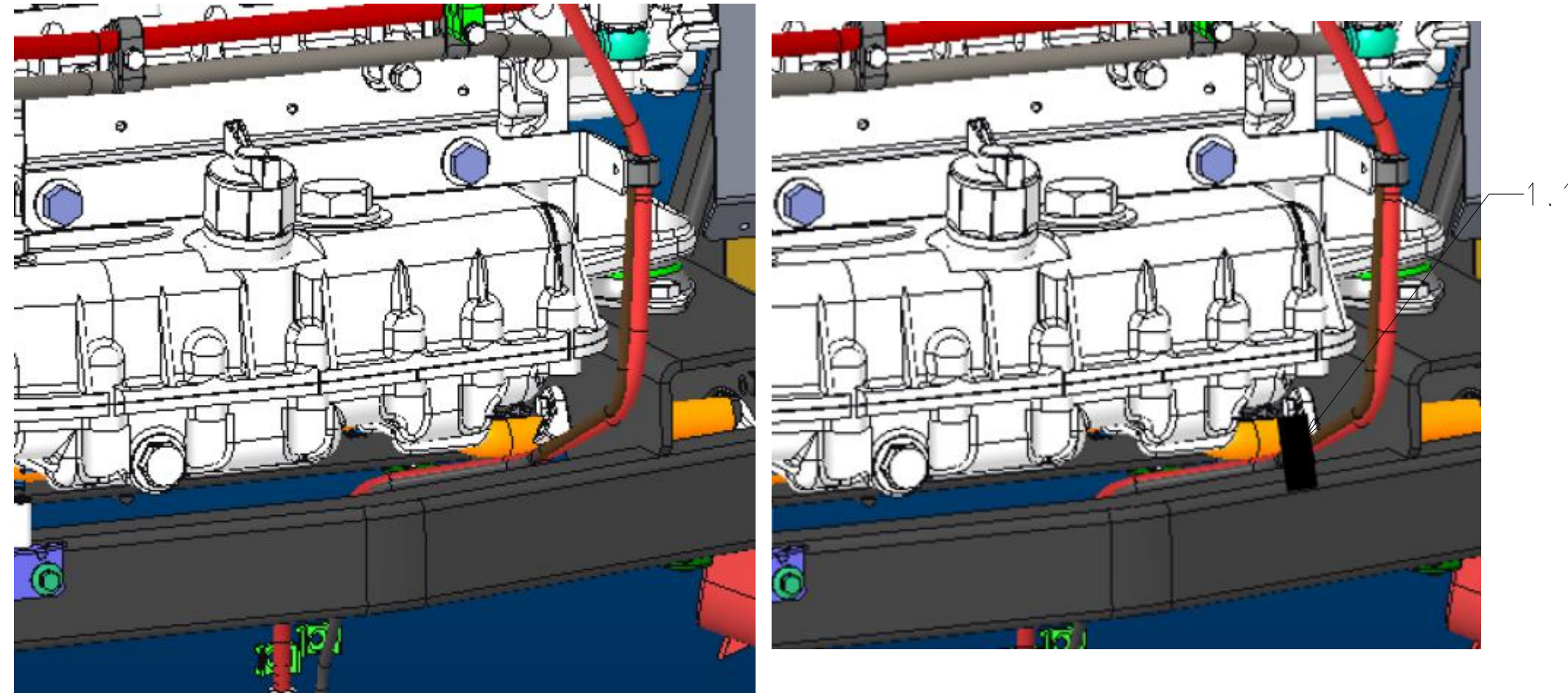
- 4** FIX PLASTIC BASES TO THE BODY IN ORDER TO FIX HOSES AND FITTINGS FOR FUEL BY USING
TY-RAPS.



MOUNTING WITHOUT BOTTOM PANEL:

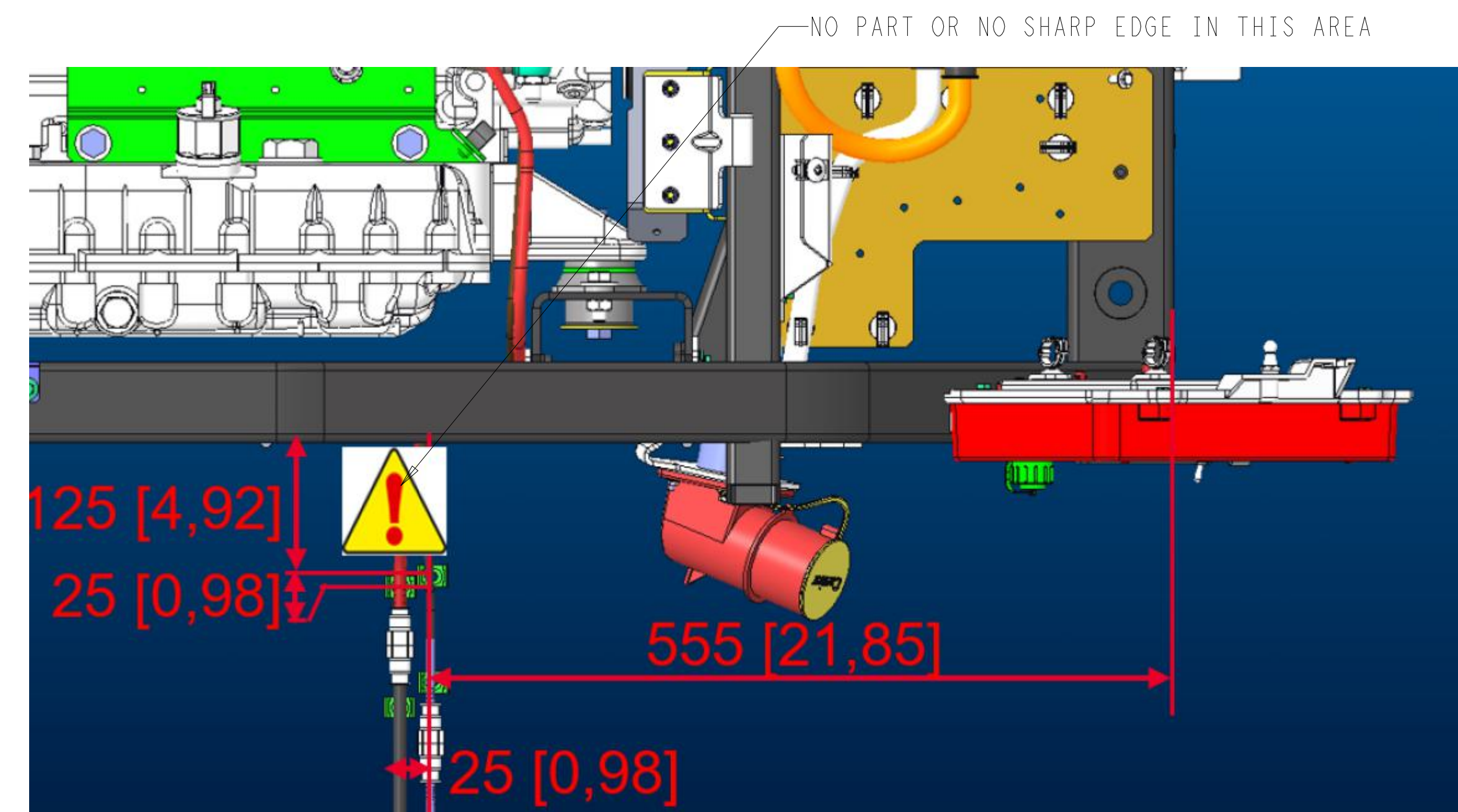
1

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.



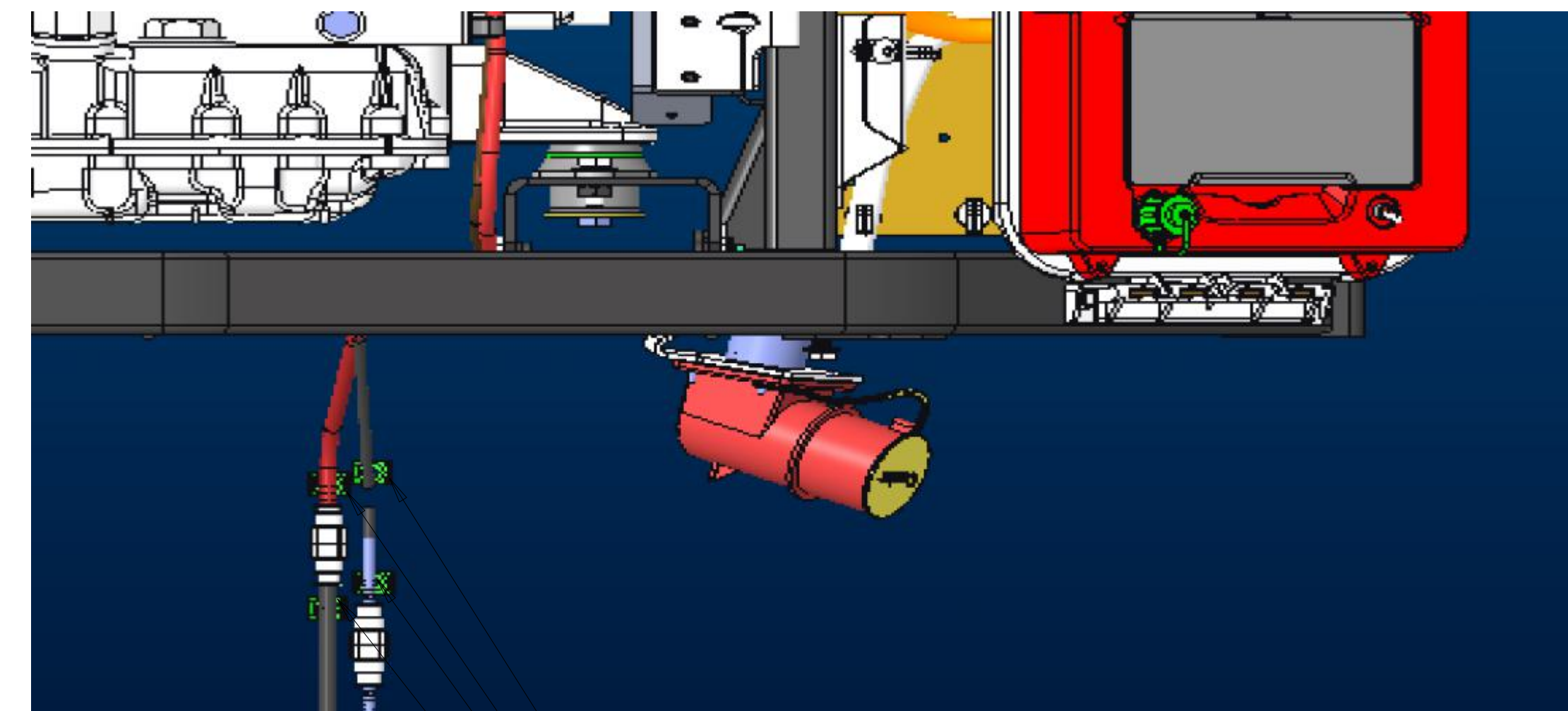
3

-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

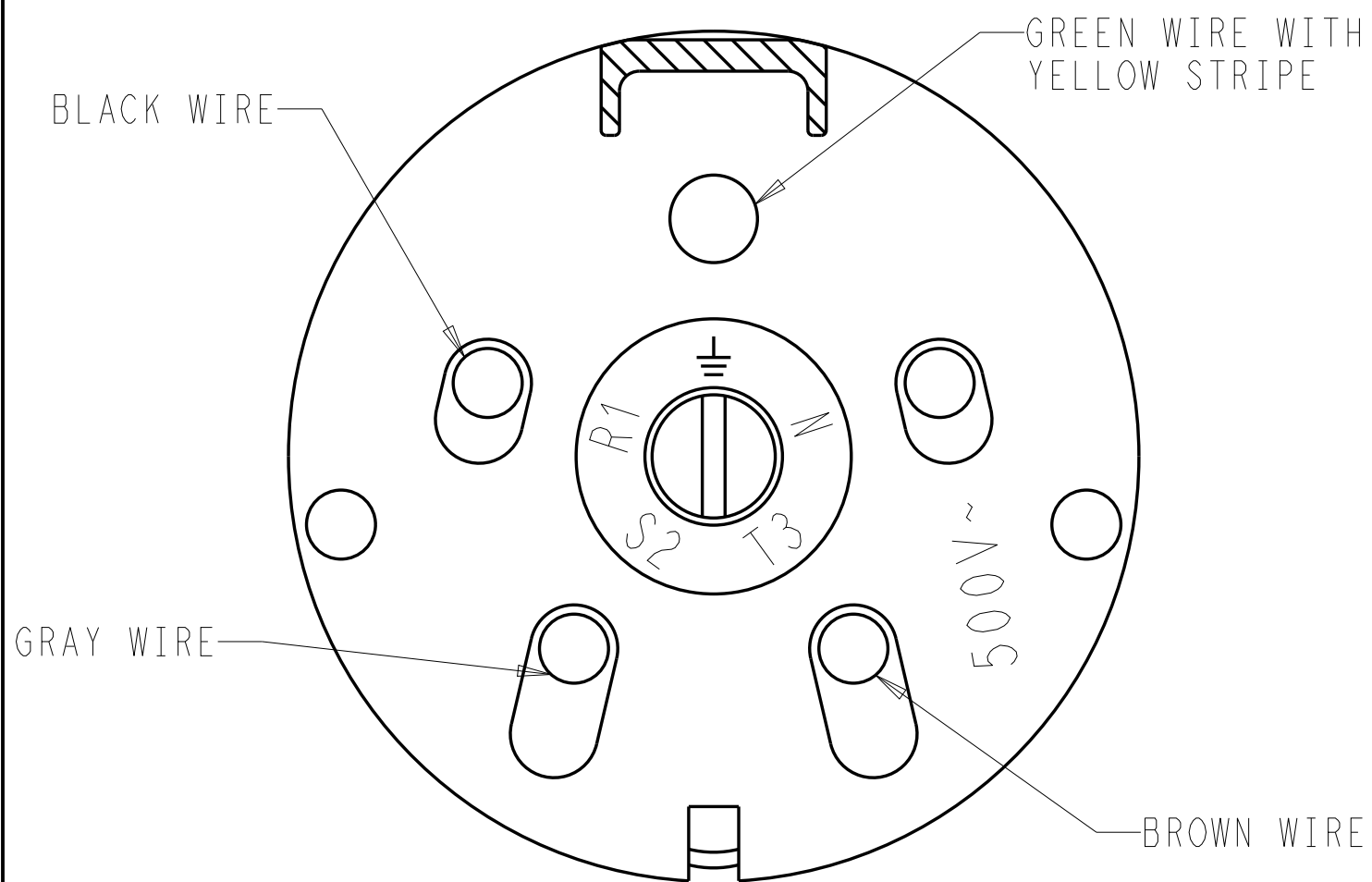
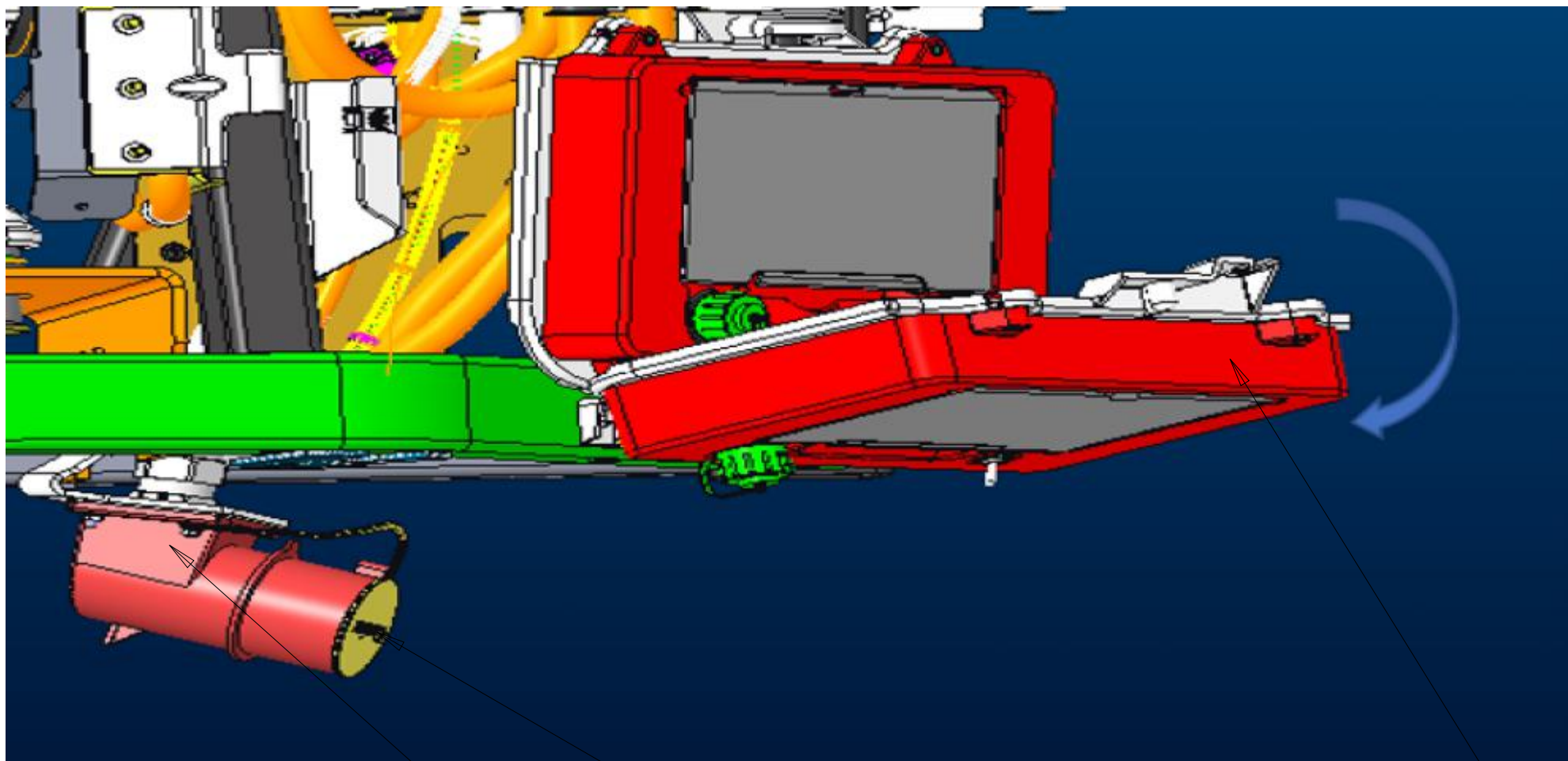


PLASTIC BASES + TY RAPS FROM MOUNTING KIT

400/3/50 Hz	NORMALIZED EXTENSION LABEL H.07 RNF
30 A	400  4 x 6 mm ²

STANDBY PLUG INSTALLATION

POWER PLUG IN THE INSTALLED POSITION



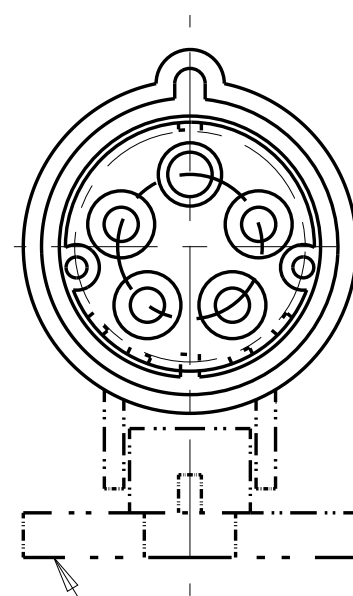
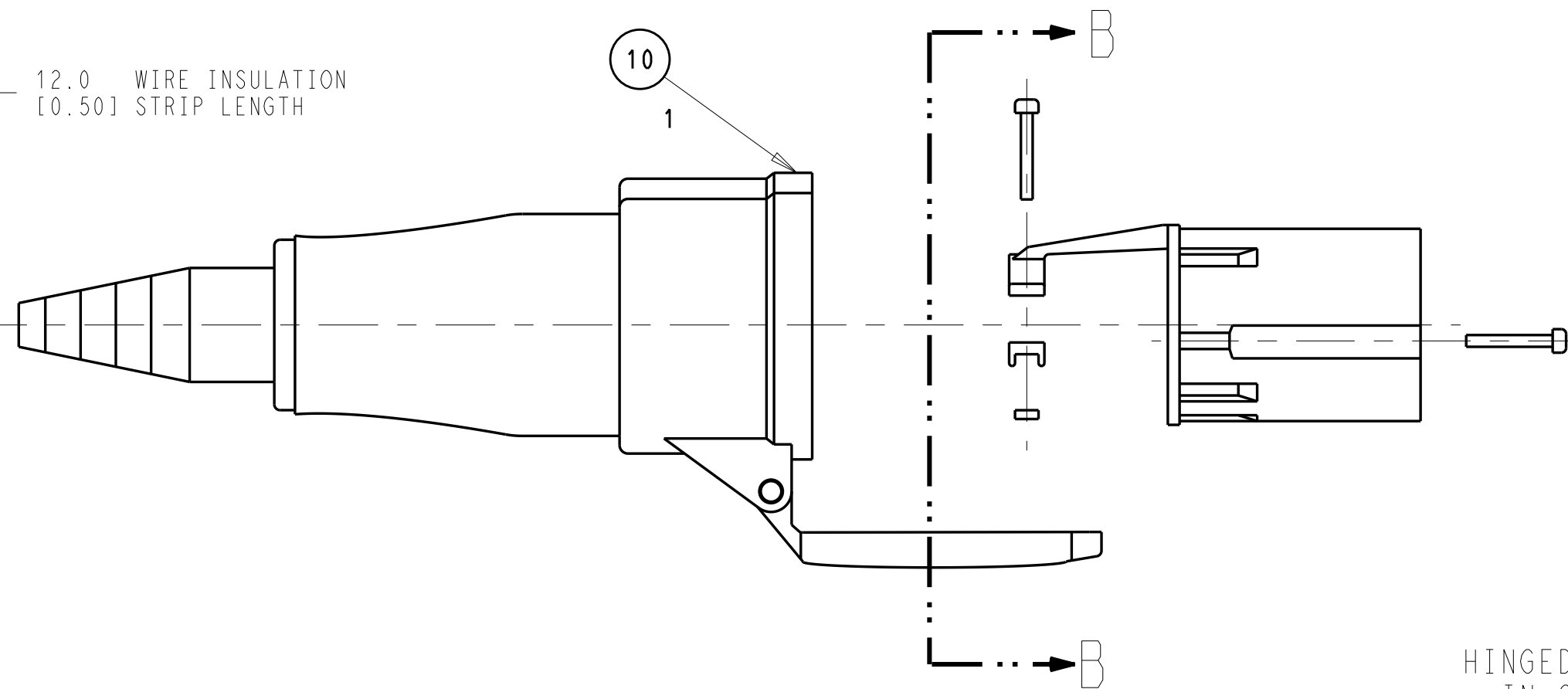
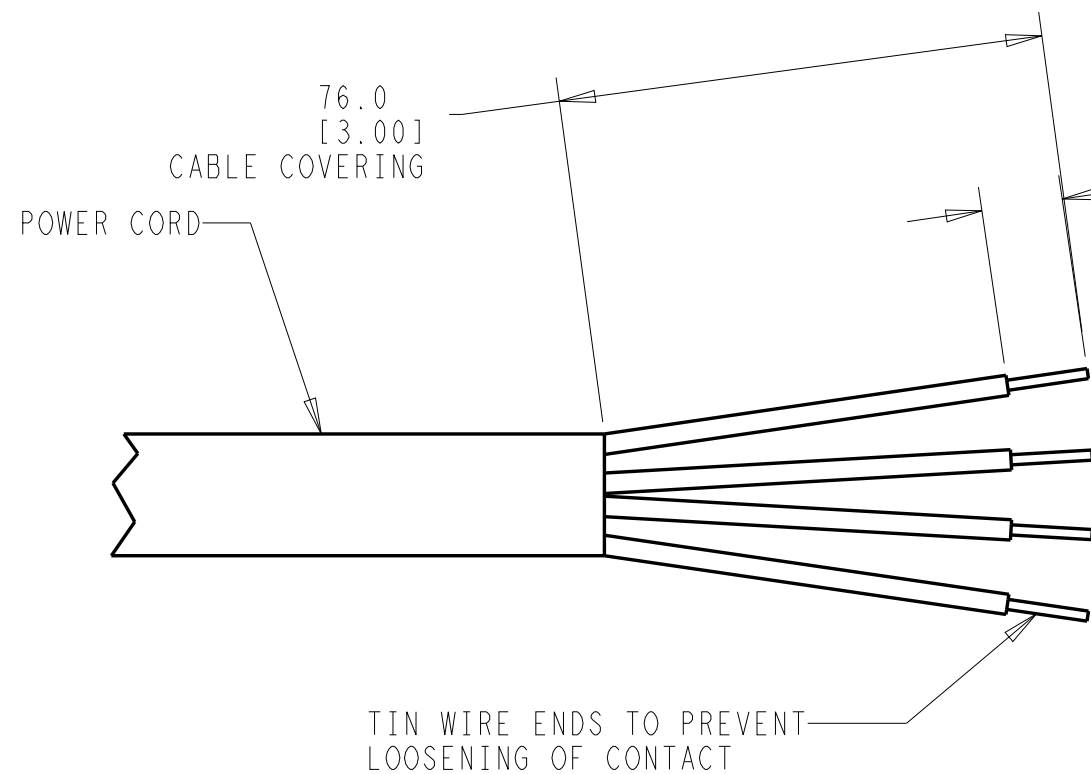
SECTION B-B
SCALE: NONE

KEY PAD DOOR ASSY
OPEN FOR ACCESS

STAND-BY PLUG

SEE NOTE 7.0

PLUG IN VERTICAL POSITION

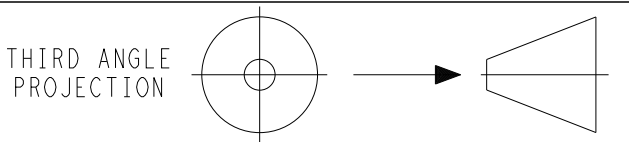


HINGED COVER SHOWN
IN OPEN POSITION

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."

J	THIS SHEET 13 WAS SHEET 11.	14 MAR 2025	LT-AU			ECN1185256
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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TITLE	INSTALLATION INSTRUCTIONS VECTOR HE19//HE17
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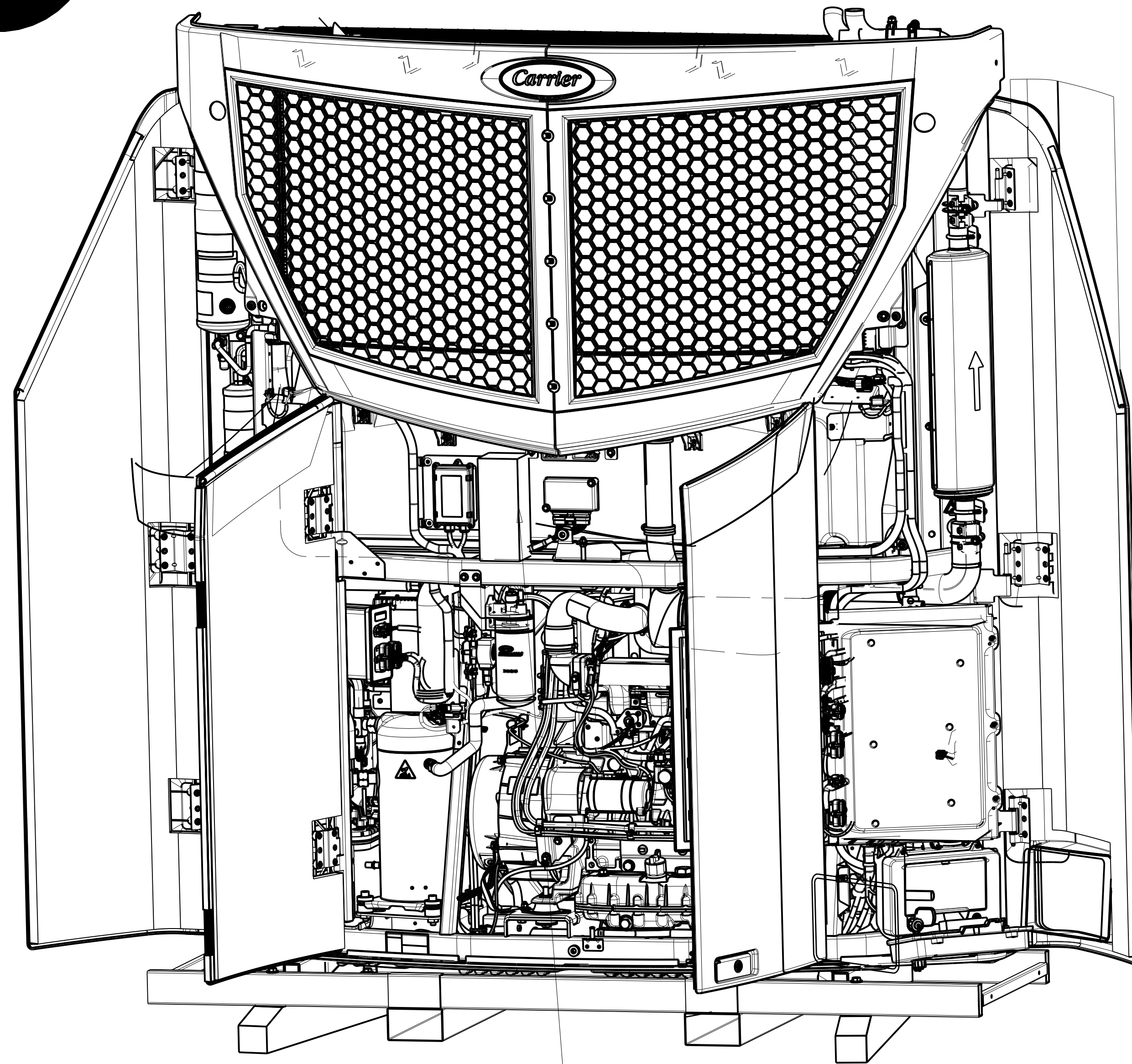
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		SHEET 13 OF	

SUPERSEDES: _____

PART CLASSIFICATION: US EAR99

ONLY STD VERSION

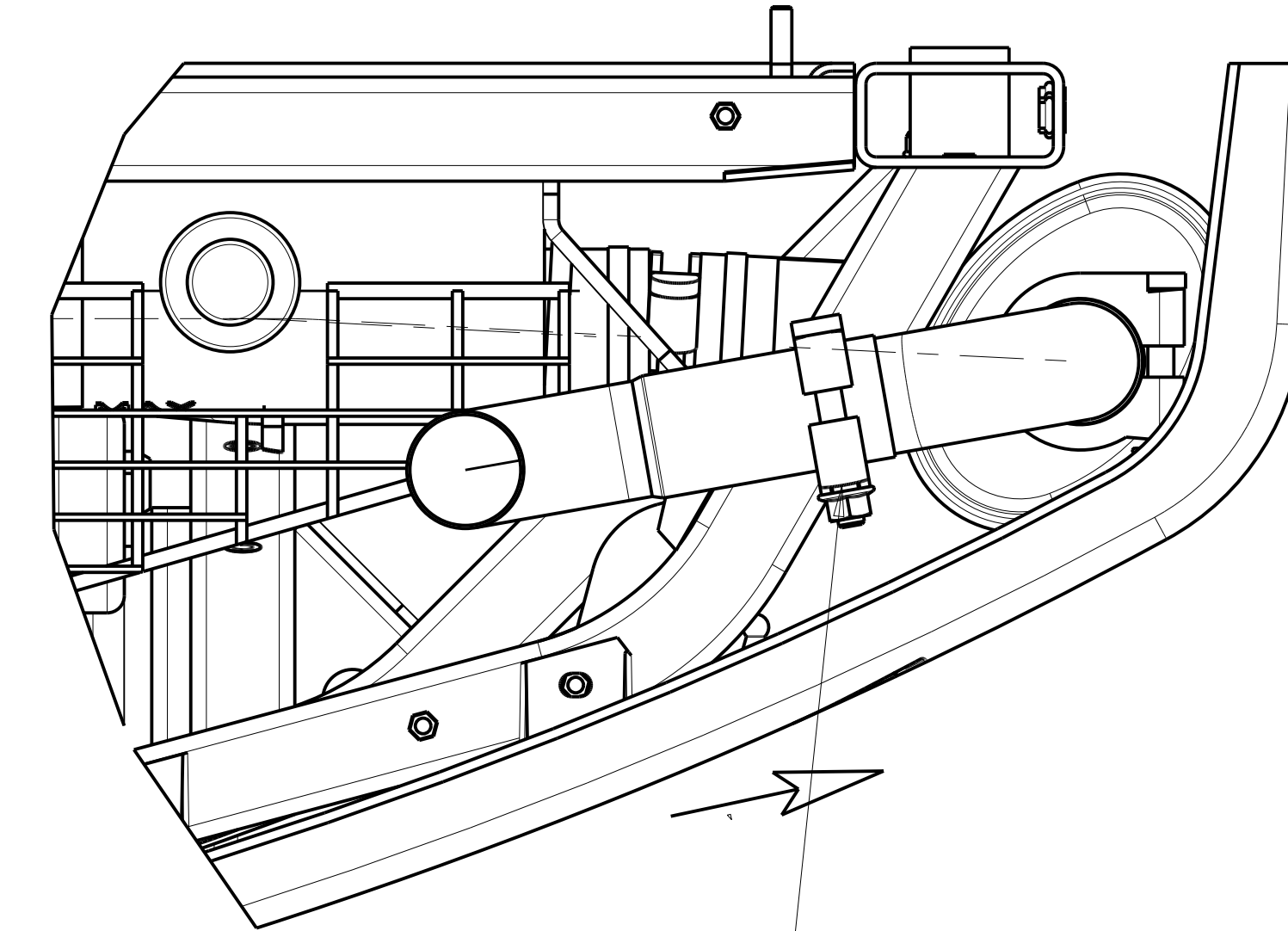
1



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

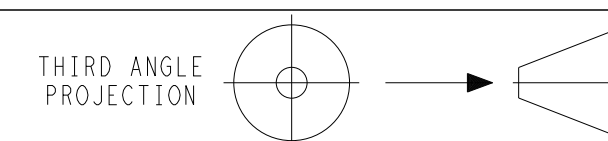
2

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

J	THIS SHEET 14 WAS SHEET 12.	14 MAR 2025	LT-AU			ECN1185256
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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DRAWING NO.	98-60812	REV	J
	SHEET 14 OF		

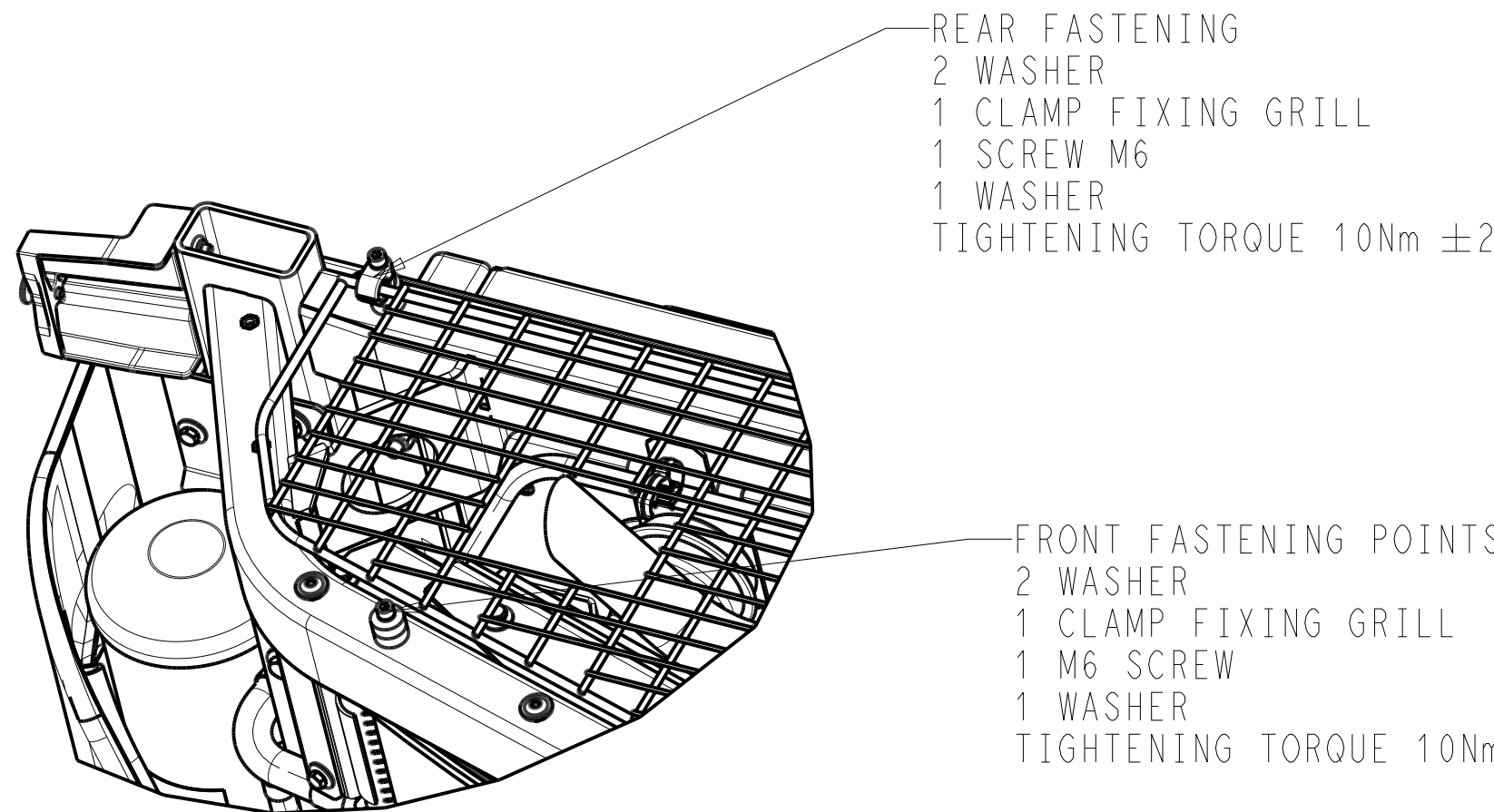
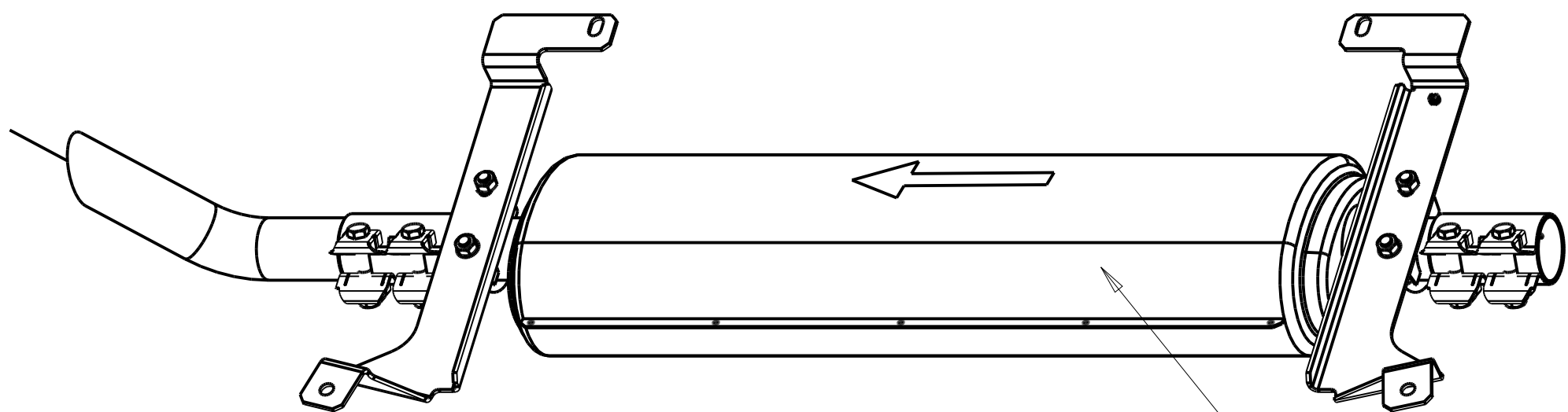
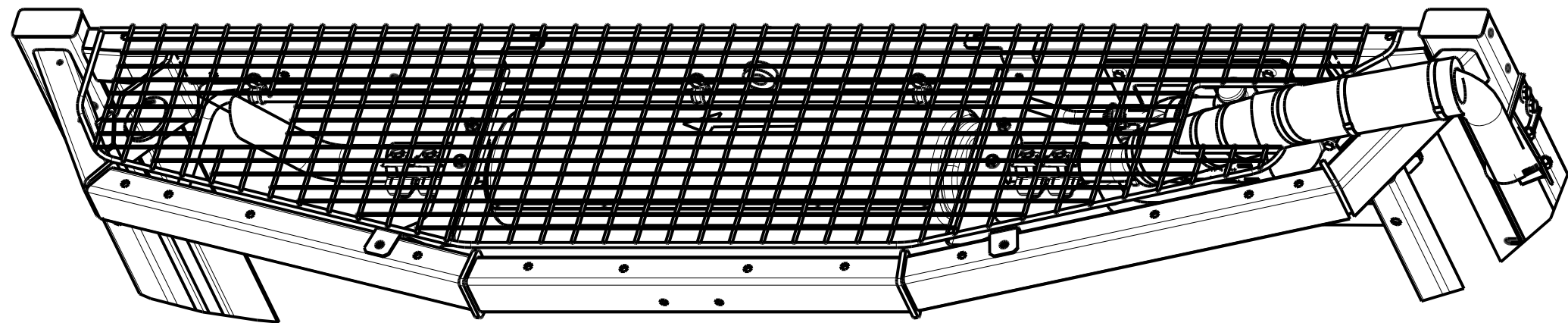
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PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US

VERSION PIEK

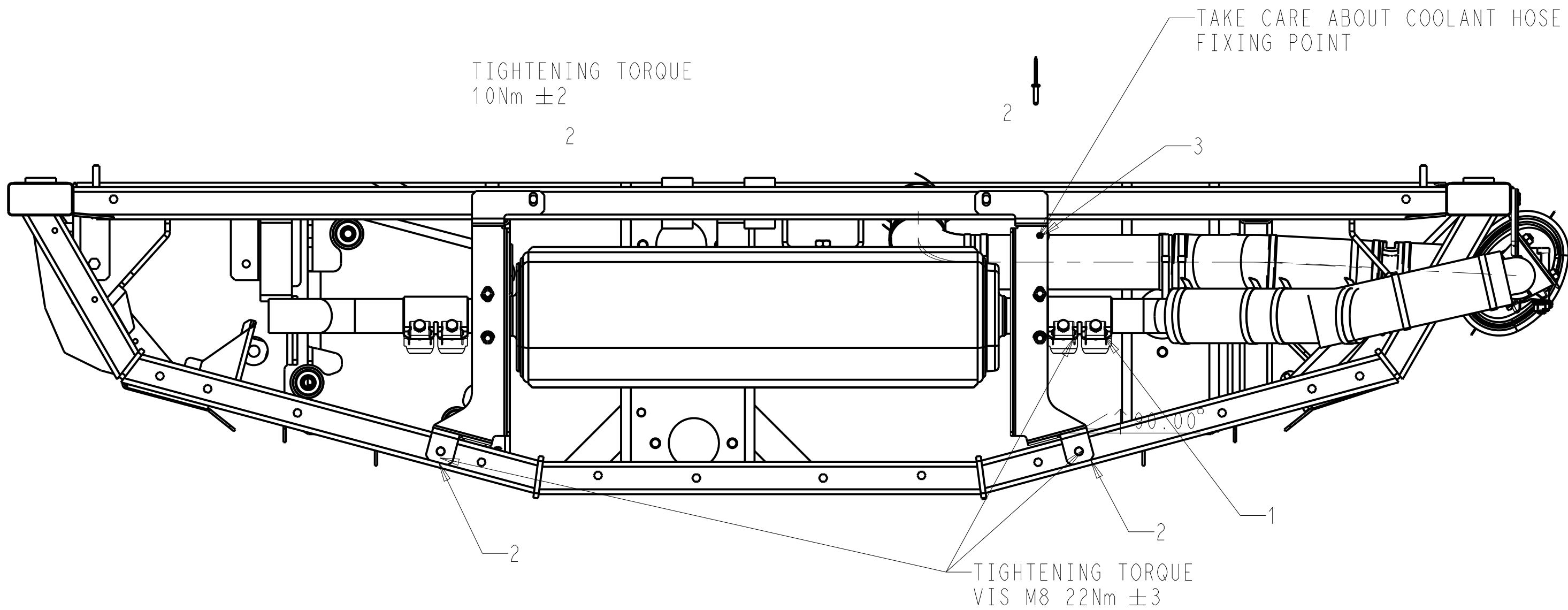
4 REAR FASTENING POINTS
4 FRONT FASTENING POINTS



REAR FASTENING
2 WASHER
1 CLAMP FIXING GRILL
1 SCREW M6
1 WASHER
TIGHTENING TORQUE 10Nm ±2

FRONT FASTENING POINTS
2 WASHER
1 CLAMP FIXING GRILL
1 M6 SCREW
1 WASHER
TIGHTENING TORQUE 10Nm ±2

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 APLY THE REQUIRE TORQUE VALUE



TIGHTENING TORQUE
10Nm ±2

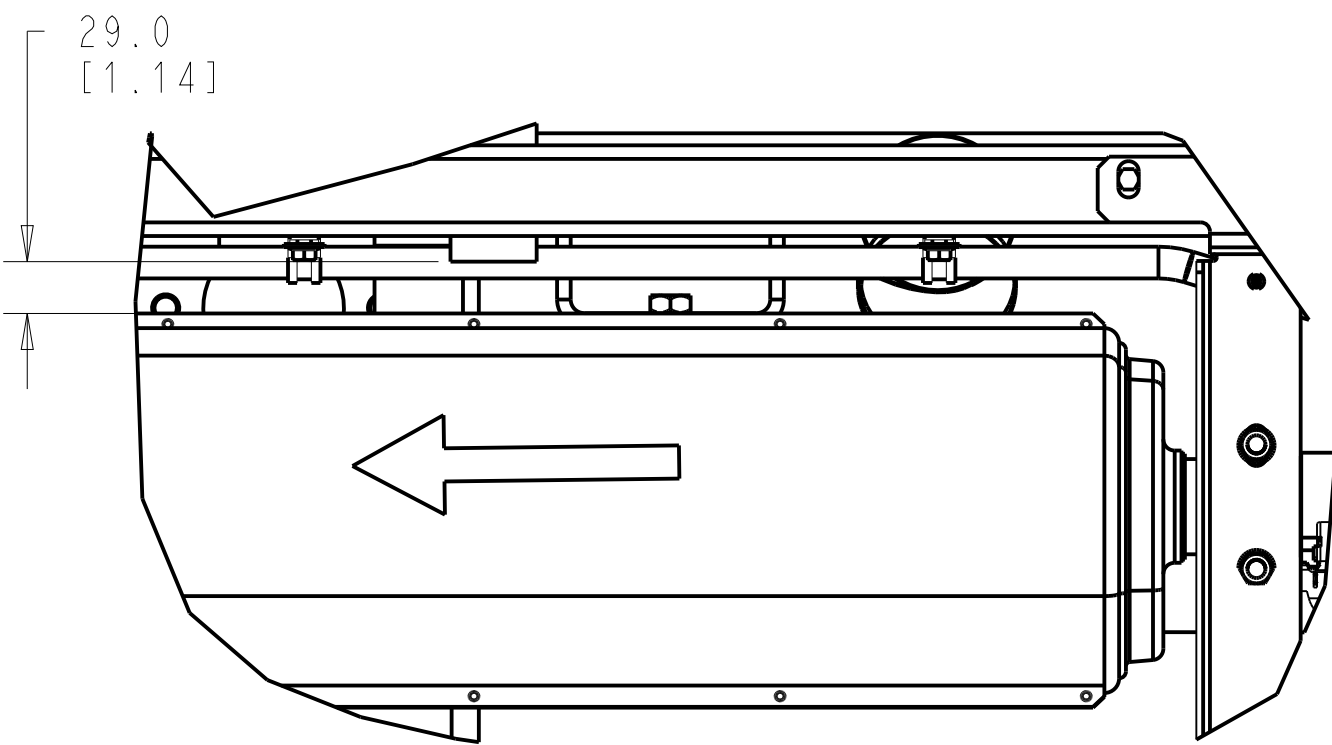
TAKE CARE ABOUT COOLANT HOSE
FIXING POINT

2

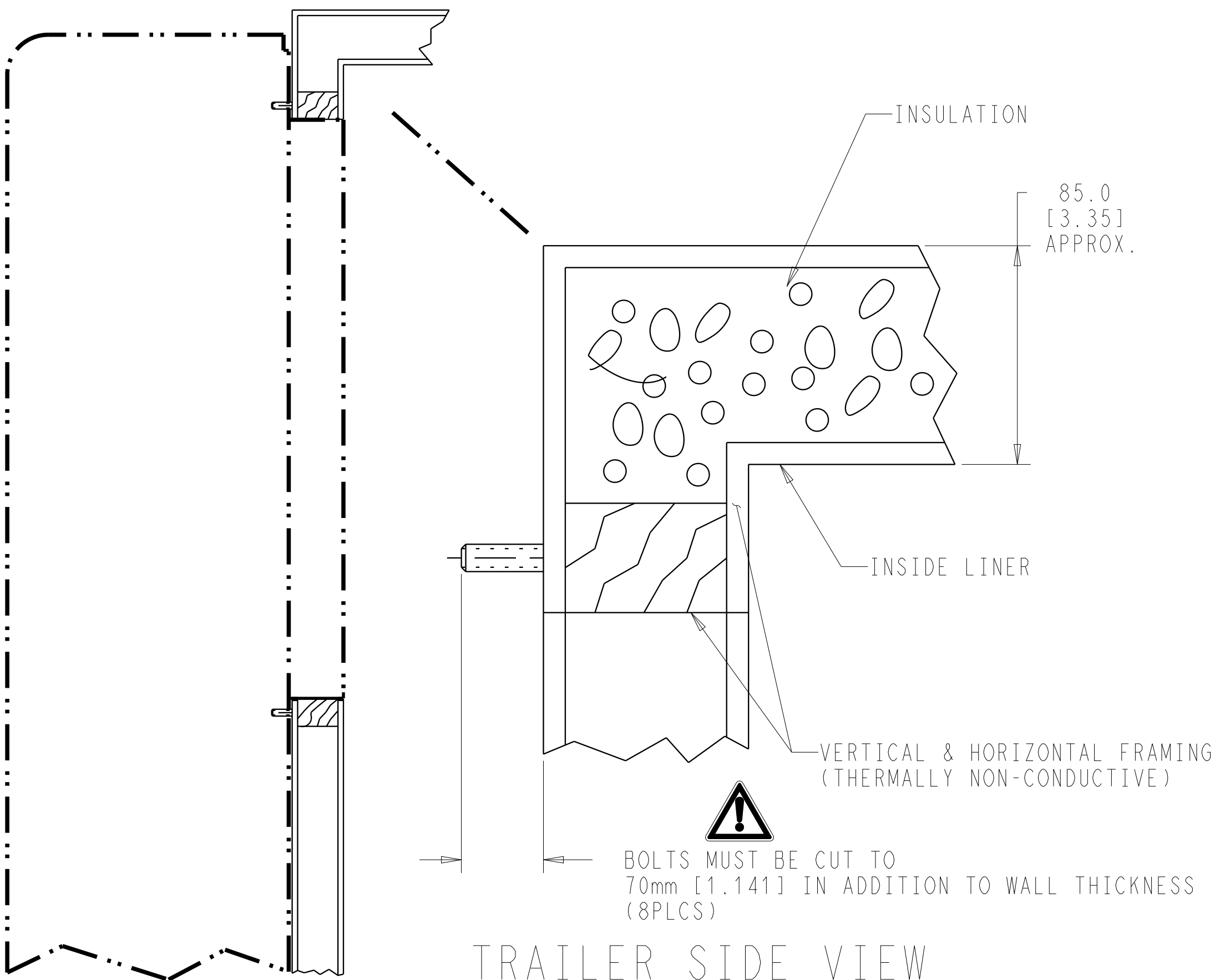
3

1

TIGHTENING TORQUE
VIS M8 22Nm ±3



29.0
[1.14]



INSULATION

85.0
[3.35]
APPROX.

INSIDE LINER

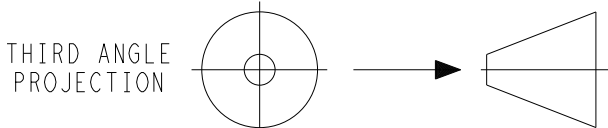
VERTICAL & HORIZONTAL FRAMING
(THERMALLY NON-CONDUCTIVE)

BOLTS MUST BE CUT TO
70mm [1.141] IN ADDITION TO WALL THICKNESS
(8PLCS)

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)



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VECTOR HE19

DRAWING NO.
98-60812

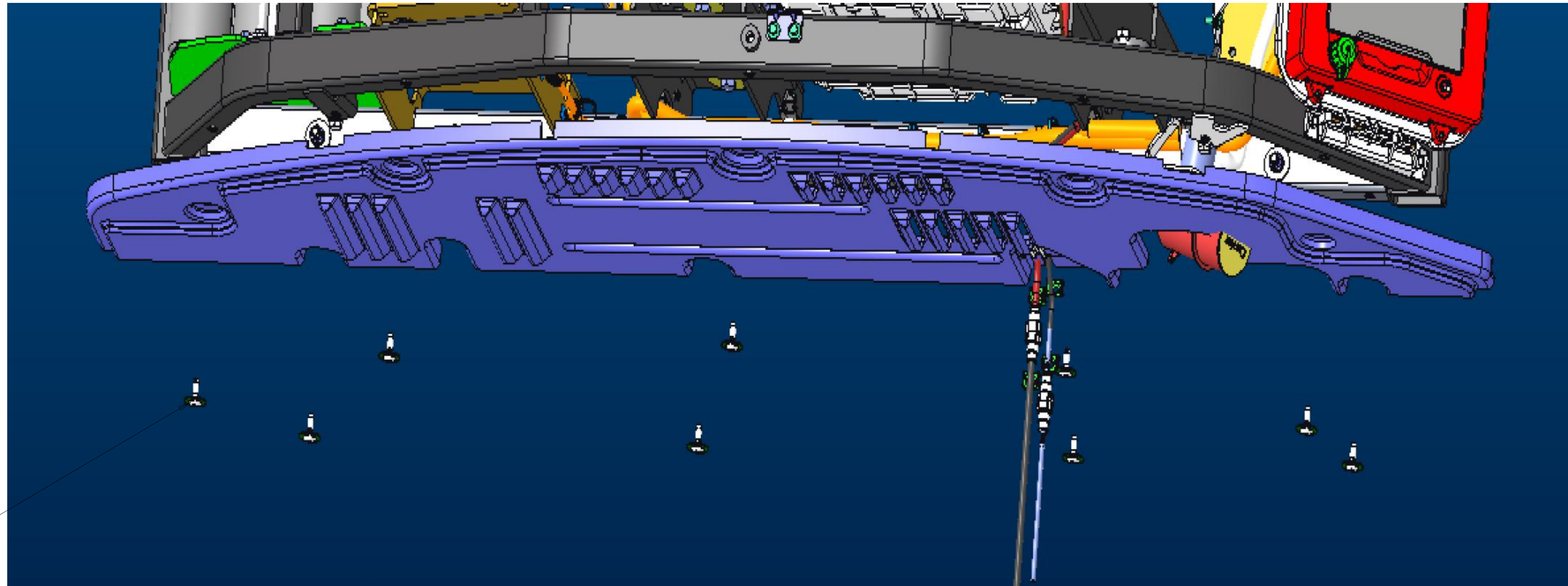
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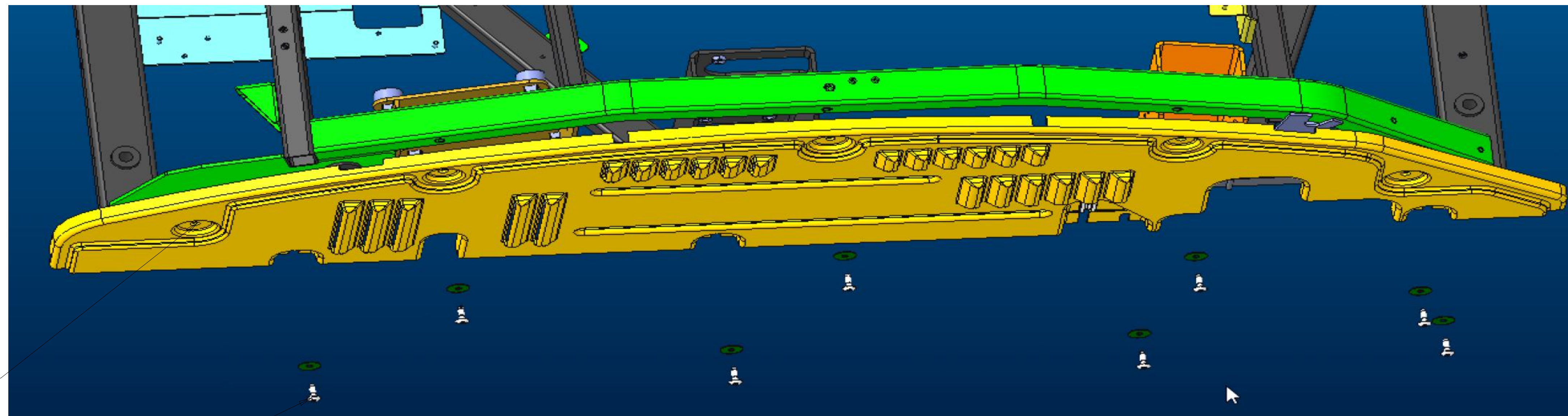
DRAWING CLASSIFICATION: US EAR99

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

J	THIS SHEET 16 WAS SHEET 14.	14 MAR 2025	LT-AU			ECN1185256	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 16 OF	REV J
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.					
SUPERSEDES: _____									PART CLASSIFICATION: US EAR99		



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

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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.

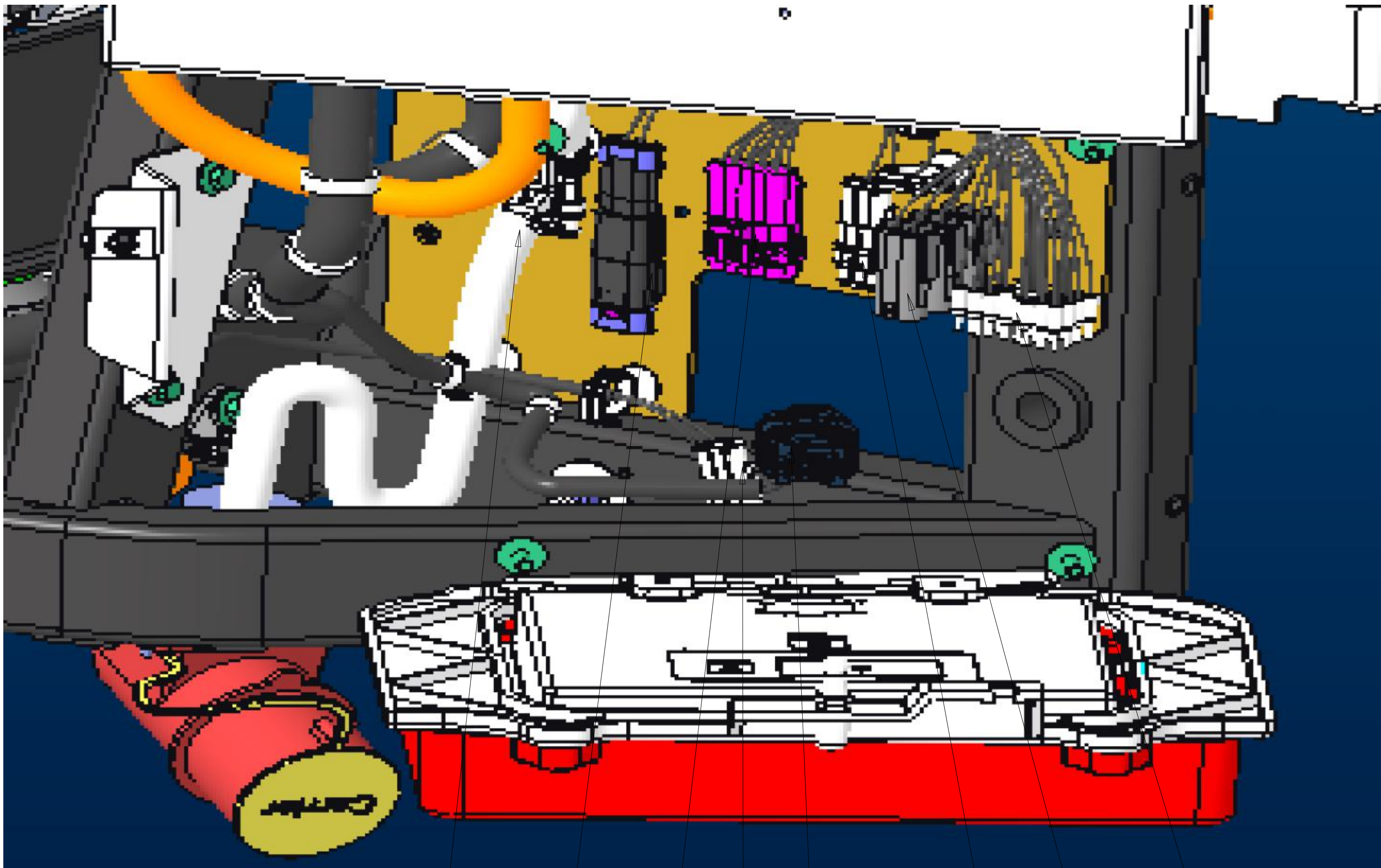
DO NOT CONNECT A 2 WAYS TELEMATIC ON THE SATCOM MCA.



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 mm² - 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)

J	THIS SHEET 17 WAS SHEET 15.	14 MAR 2025	LT-AU			ECN1185256	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 17 OF	REV J
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.					

SUPERSEDES: _____

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