

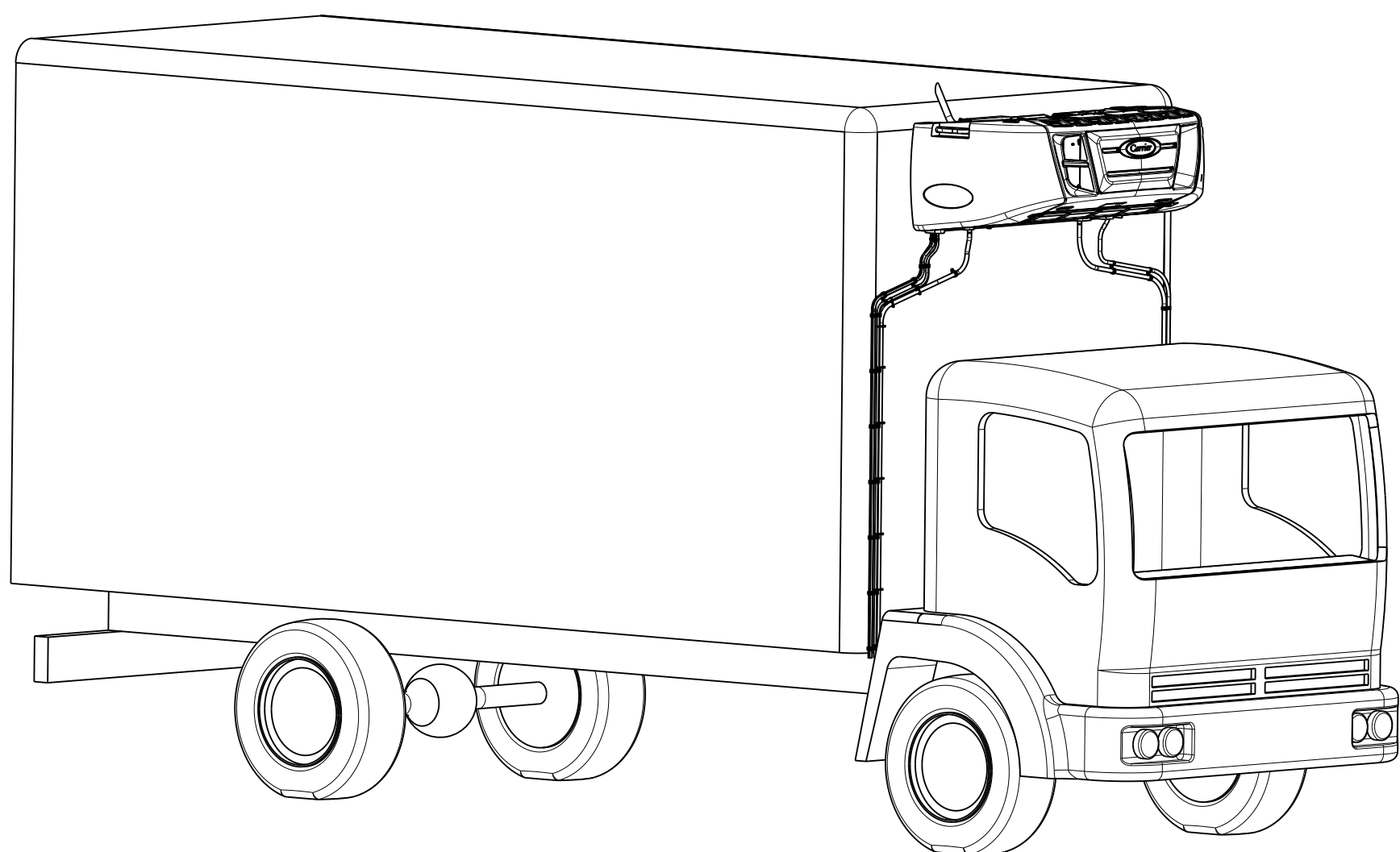


Carrier Transicold Division
Carrier Corporation
P.O. Box 4805
Syracuse, New York 13221

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SUPRA SINGLE TEMP INSTALLATION INSTRUCTIONS



CONTENTS	SHEET
GENERAL INFORMATION	1
BODY PREPARATION	2 THRU 8
UNIT DIMENSIONAL DATA - SUPRA 5 SERIES	3
UNIT DIMENSIONAL DATA - SUPRA 6 & 7 SERIES	4
UNIT DIMENSIONAL DATA - SUPRA 8 SERIES	5
UNIT DIMENSIONAL DATA - SUPRA 9 SERIES	6
UNIT INSTALLATION	7,8
CAB COMMAND INSTALLATION	9,10
ELECTRICAL, FUEL LINE (UNIT) & CURB SIDE EVAPORATOR DRAIN	11
STANDBY POWER RECEPTACLE & ROAD SIDE EVAPORATOR DRAIN	12
STANDBY POWER CORD SHORTENING & STANDBY RECEPTACLE PLATE DIMENSIONS	13
FUEL PICK-UP TUBE INSTALLATION	14
ELECTRICAL & FUEL LINE (FUEL TANK)	15
TOP PANEL (OPTIONAL) & BOTTOM PANEL (STANDARD) MOUNTING	16
BATTERY CABLE & MP+ CABLE TERMINATION	17

SHEET INDEX	REV	E	A	A	A	A	A	B	E	D	D	D	D	D	D	D	D
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

E	UPDATED SHEET INDEX, SEE SHEET 8.	06 AUG 2019	LT-RP	RC		72N0242P19
D	SHT: 9 WAS 8A; ADDED SHT.10; RENUMBERED SHT's 11 THRU 17 WERE SHT's 10 THRU 15	15 MAR 2017	MGC			71N0218P17
C	UPDATED SHT. INDEX; REV'D SHT.8; ADDED SHT. 8A	3 FEB 2017	MGC			71N0206P17
B	UPDATED SHT. INDEX; SEE SHT's 7, 9 & 10	10 MAY 2016	MGC			71N0219P16
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



WARNING

READ ALL INSTRUCTIONS PRIOR TO INSTALLATION

- 1.0 INSTALLATION OF THIS REFRIGERATION UNIT MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.
- 2.0 SAFETY:
- 2.1 PERSONAL PROTECTIVE EQUIPMENT (PPE): BEFORE INSTALLING THIS REFRIGERANT UNIT, ALWAYS USE APPROPRIATE TOOLS THAT ARE IN GOOD WORKING CONDITION AND WEAR PERSONAL PROTECTIVE EQUIPMENT (INCLUDING, BUT NOT LIMITED TO THE ITEMS SHOWN BELOW).

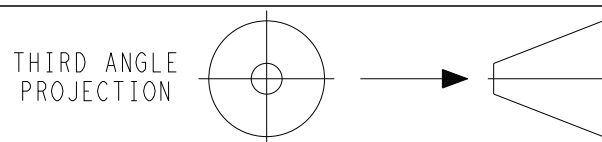


- 2.2 RISKS: BE AWARE OF YOUR ENVIRONMENT AND SURROUNDINGS. FOLLOW ALL LOCK OUT / TAG OUT PROCEDURES ON ALL EQUIPMENT INVOLVED IN THE INSTALLATION INCLUDING THE UNIT ITSELF. MAKE CERTAIN ALL TOOLS AND EQUIPMENT ARE APPROPRIATE FOR THE JOB BEING COMPLETED, AND ARE IN GOOD CONDITION.
- 2.3 UNIT HANDLING: UNIT LIFTING SPREADER BAR TO BE SUPPLIED BY THE INSTALLER. CENTER OF GRAVITY AND UNIT WEIGHTS ARE PROVIDED ON THE FOLLOWING PAGES.
- 3.0 BATTERY:
- 3.1 IN ORDER TO AVOID POTENTIAL ELECTRICAL CHARGING SYSTEM PROBLEMS, IT IS CARRIER TRANSICOLD'S RECOMMENDATION THAT EACH SUPRA TRUCK REFRIGERATION UNIT BE INSTALLED WITH ITS OWN INDIVIDUAL BATTERY AND IF NECESSARY, WITH ITS OWN BATTERY BOX. THE REFRIGERATION UNIT'S ELECTRICAL SHOULD REMAIN SEPARATE FROM THE TRUCK'S ELECTRICAL SYSTEM, AND BATTERIES. BATTERY BOX ASSEMBLIES ARE AVAILABLE THROUGH THE PURCHASED PARTS GROUP (PPG).
- 3.2 THESE UNITS ARE DESIGNED FOR 12 VOLT DC BATTERIES, NEGATIVE GROUND ONLY. RECOMMENDED BATTERY TO BE A GROUP 31 BATTERY AS FOLLOWS:
- A. VENT LOCATION: SIDE VENT.
 - B. AMPERAGE RATING: MINIMUM 700 COLD CRANKING AMPS @ 0°F [-18°C] &
MINIMUM 545 COLD CRANKING AMPS @ -20°F [-29°C]
- 3.3 BEFORE PERFORMING ANY WELDING ON THE CHASSIS, DISCONNECT THE BATTERY CABLE FROM THE UNIT AND THE VEHICLE AS WELL. DISCONNECT ALL OTHER ELECTRICAL CONNECTIONS SUCH AS THE ELECTRONIC SYSTEM (MICROPROCESSOR).

INSTALLATION:

- 4.0 THE TRUCK BODY STRUCTURE MUST BE EVALUATED BY THE BODY MANUFACTURER TO DETERMINE ITS ABILITY TO WITHSTAND THE IMPOSED LOADS OVER ITS SERVICE LIFE. THESE GUIDELINES DO NOT CONVEY ENDORSEMENT OR WARRANTY BY CARRIER TRANSICOLD FOR THE STRUCTURAL INTEGRITY OF THE TRUCK BODY.
- 5.0 ROUTE ALL FUEL LINES AND ELECTRICAL CABLE / HARNESSSES IN THE FOLLOWING MANNERS:
- LOW VOLTAGE HARNESSSES MAY BE PASSED THRU METAL OR PLASTIC CONDUIT. MAKE CERTAIN TO PROTECT WIRES FROM CHAFING.
 - THRU FREE SPACE CLAMPED IN SUCH A MANNER AS TO PREVENT PHYSICAL DAMAGE.
 - WITH THE POSITIVE BATTERY CABLE SEPARATE FROM ALL FUEL LINES.
 - AVOID ALL SHARP EDGES THAT COULD RUB THRU HOSES AND/OR HARNESSSES.
 - FOR FUEL LINES AND UNIT DRAIN HOSES: USE SUFFICIENT BEND RADII WHICH WILL ALLOW PROPER FLUID MOVEMENT. AVOID KINKING.

SEE SEPARATE PARTS LIST



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

TITLE

INSTALLATION INSTRUCTION

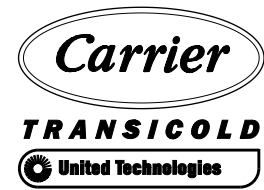
DRAWING NO.

98-03352
SHEET 1 OF 17

E

SUPERSEDES:

PART CLASSIFICATION: US EAR99



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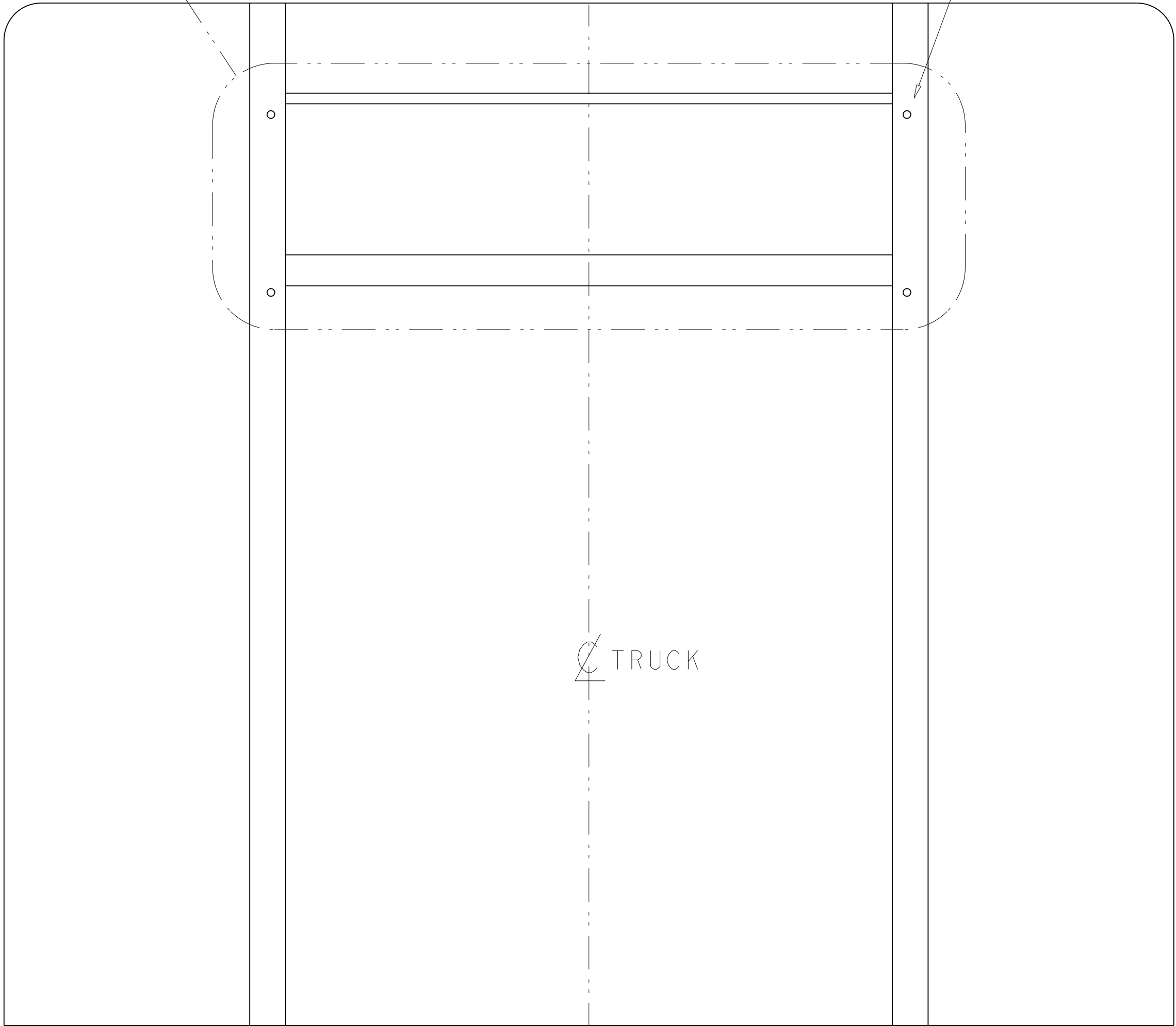
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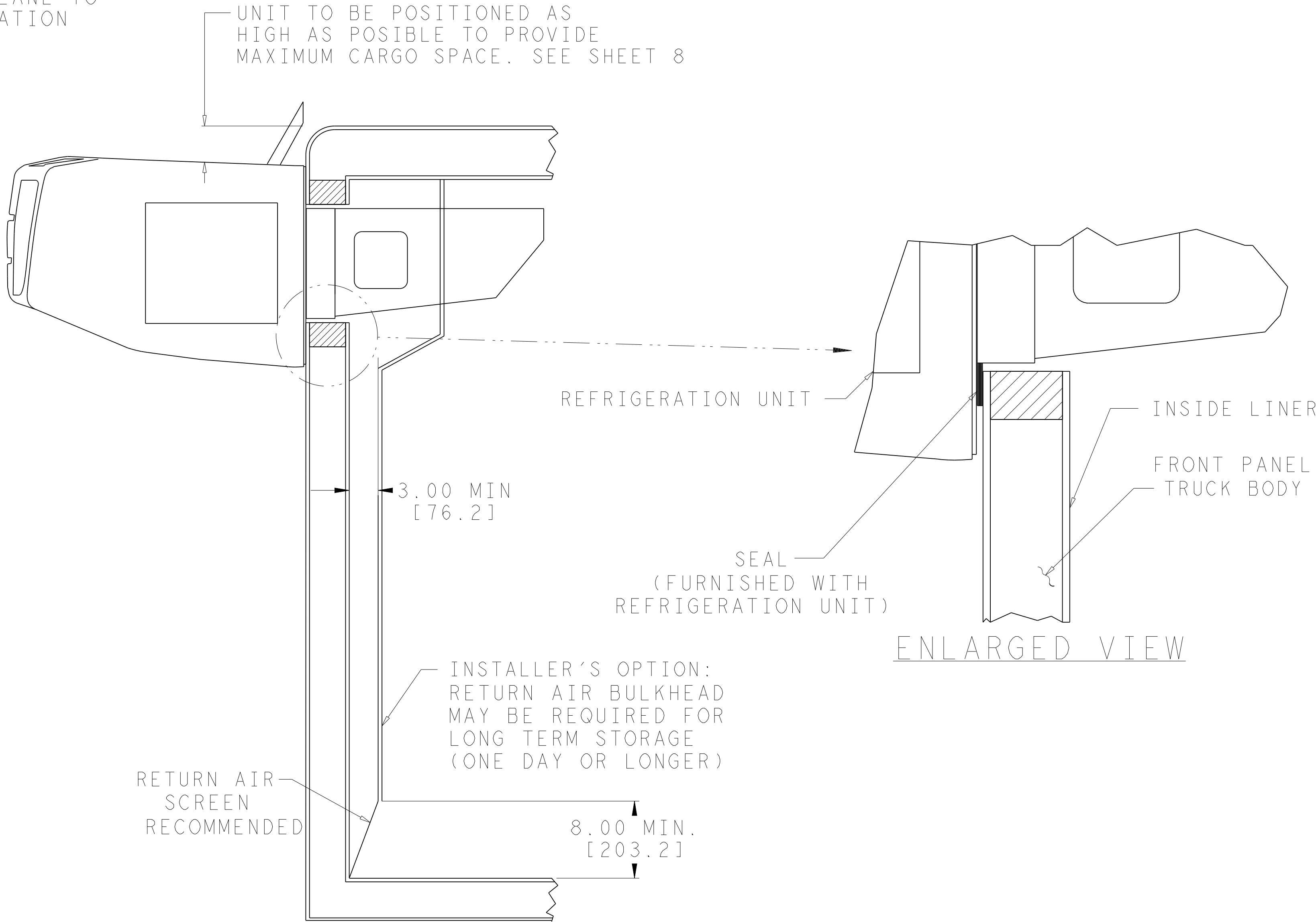
SEE "TRUCK BODY PREPARATION" VIEW
AS FOLLOWS:

FOR SUPRA 5 SERIES, SEE SHT.3
FOR SUPRA 6 OR 7 SERIES, SEE SHT.4
FOR SUPRA 8 SERIES, SEE SHT.5
FOR SUPRA 9 SERIES, SEE SHT.6

NOTE: AREA OF MAIN GASKET SEAL
SHOULD BE SMOOTH, FLAT AND
IN SINGLE MOUNTING PLANE TO
ALLOW PROPER INSTALLATION



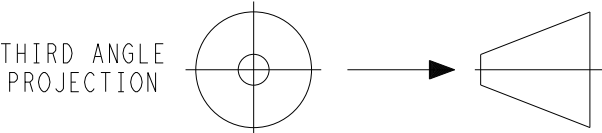
FRONT VIEW



SIDE VIEW

TRUCK BODY PREPARATION

A	INITIAL RELEASE	25 SEPT 15	MGC			71N0232P15
A1	PRELIMINARY RELEASE.	10 SEPT 15	MGC			71N0232P15
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



IMPERIAL INCH FORMAT:
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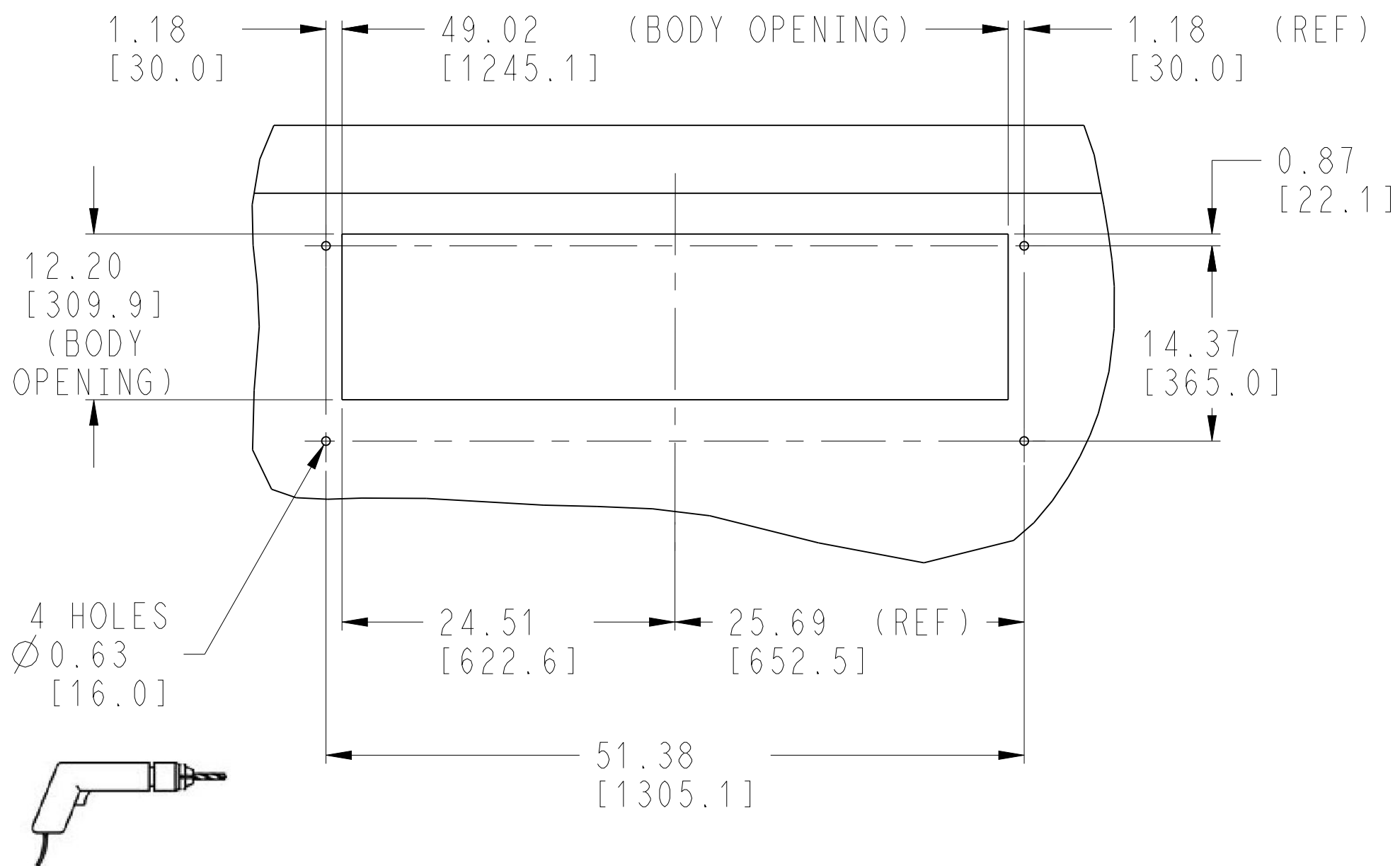
TITLE
INSTALLATION INSTRUCTION

DRAWING NO.
98-03352
SHEET 2 OF
REV
A

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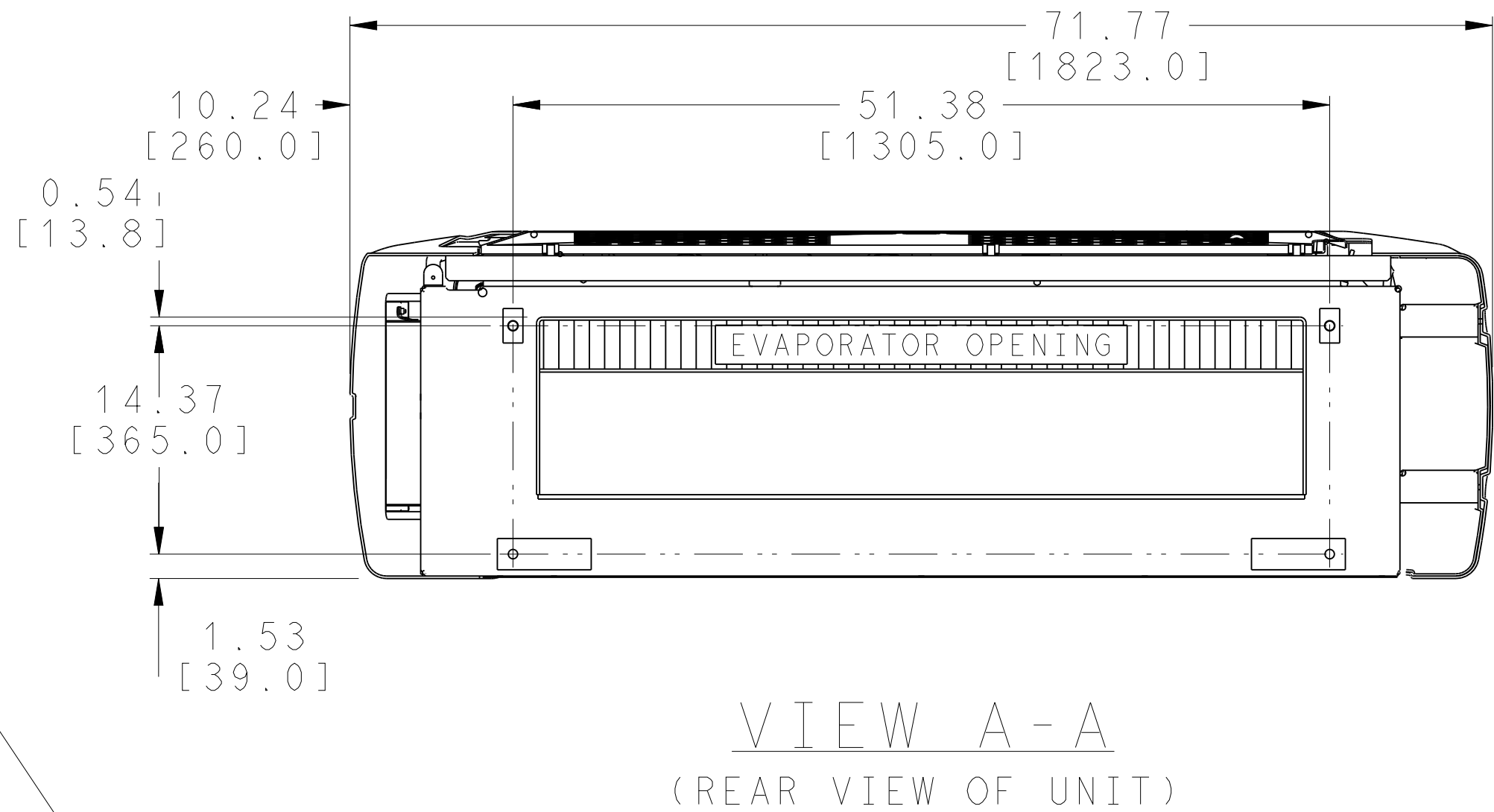
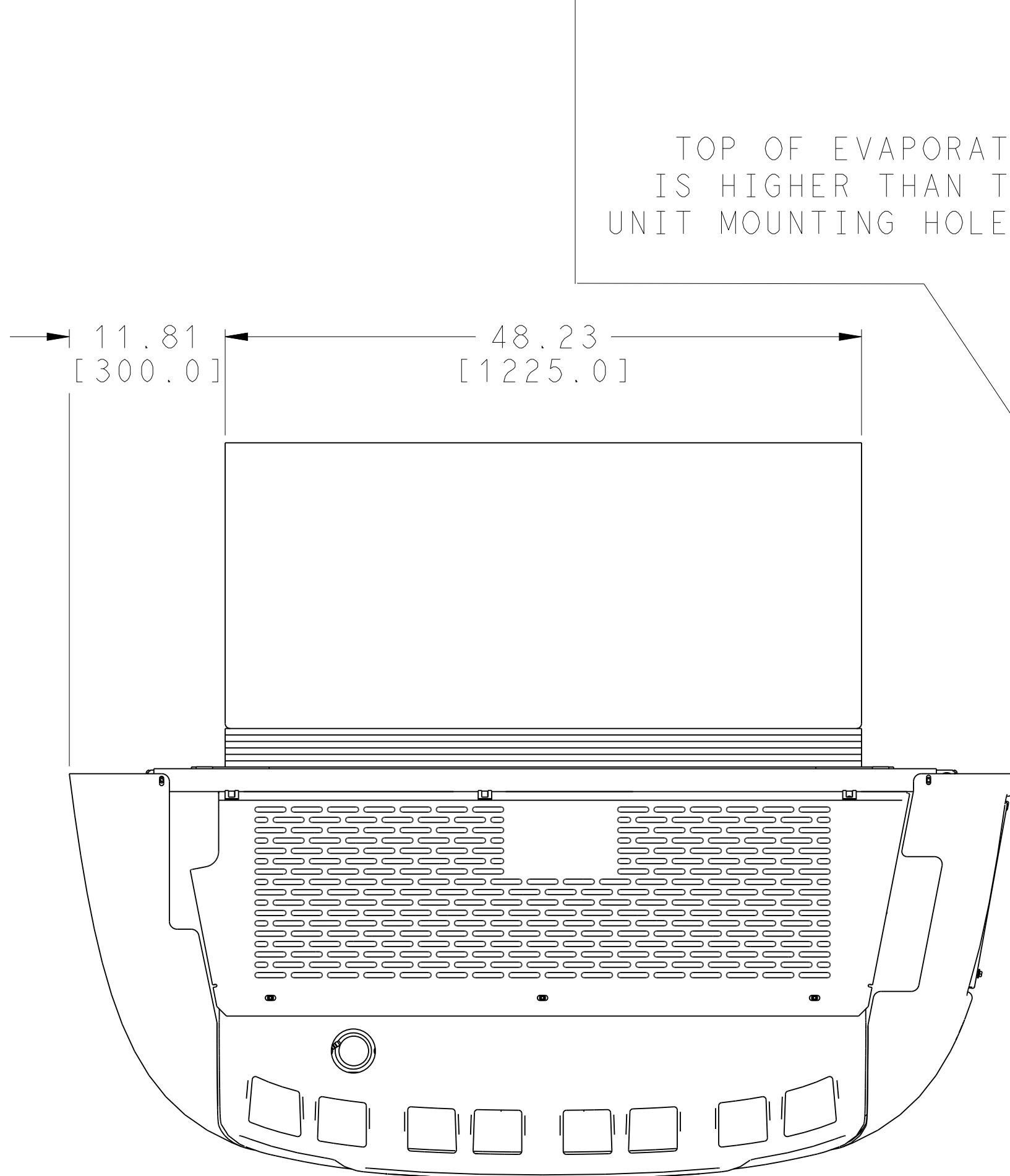
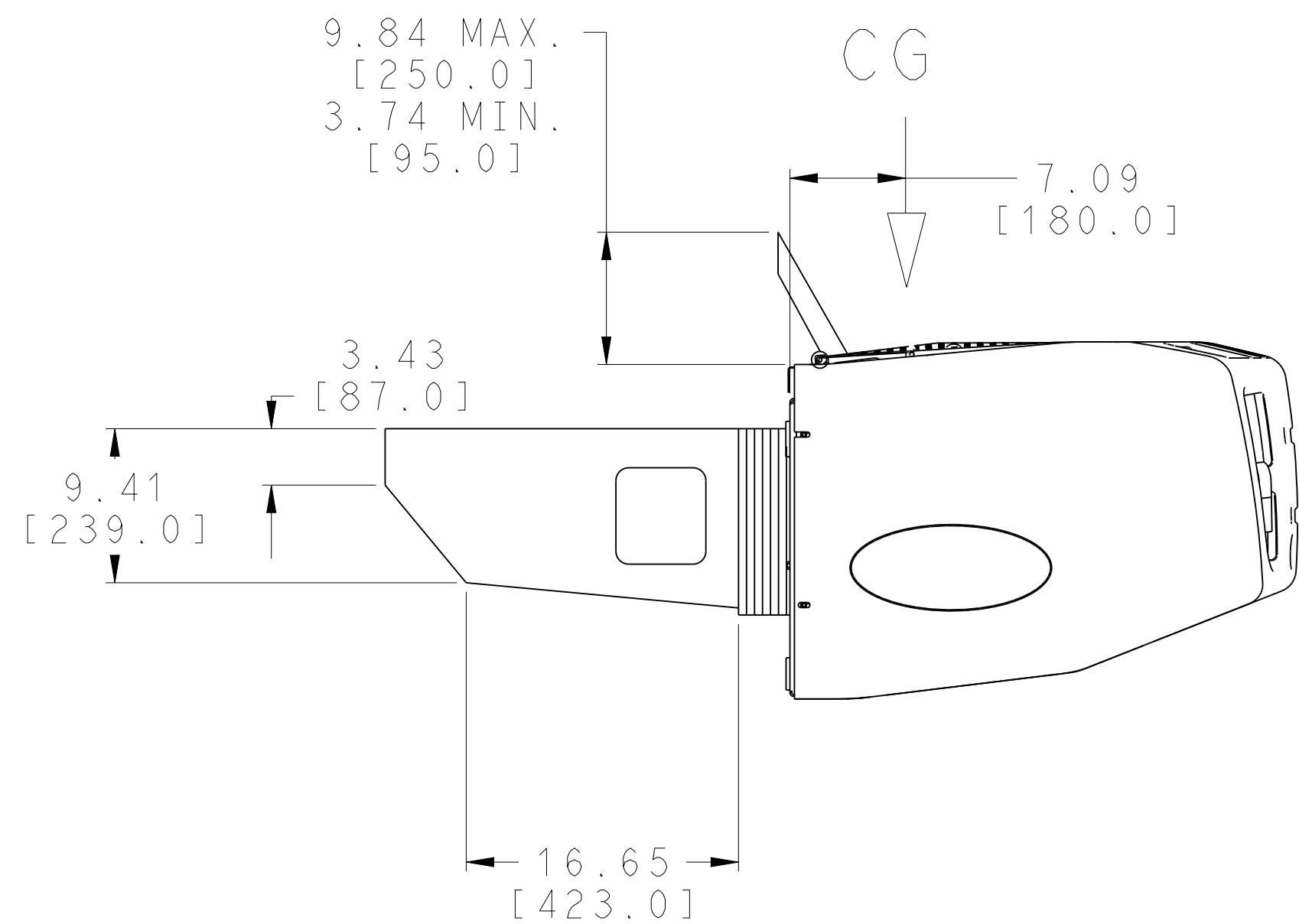
DRAWING CLASSIFICATION: US EAR99



TRUCK BODY PREPARATION
(FRONT(OUTSIDE) VIEW OF TRUCK BODY)
FROM SHT.2

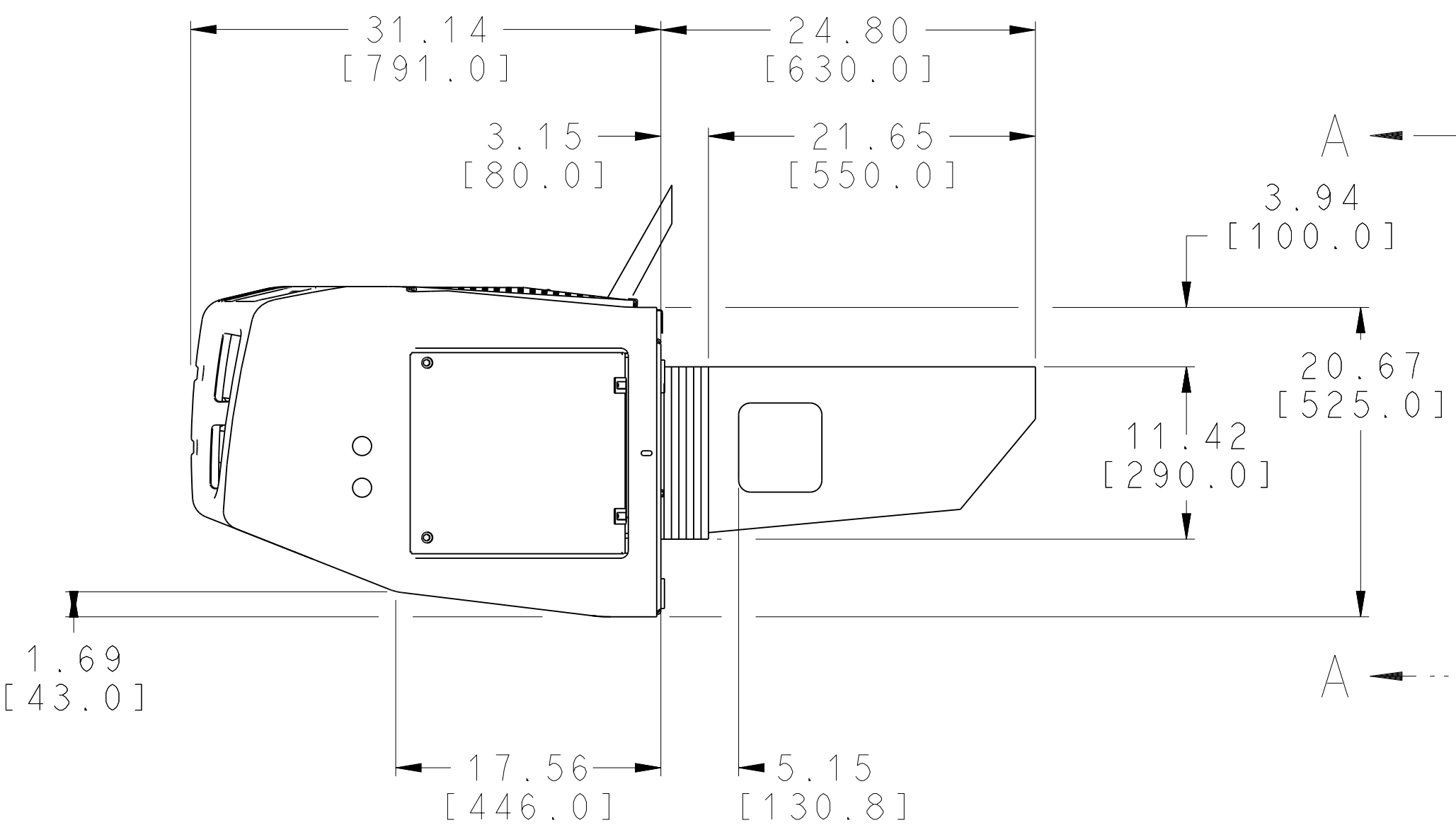
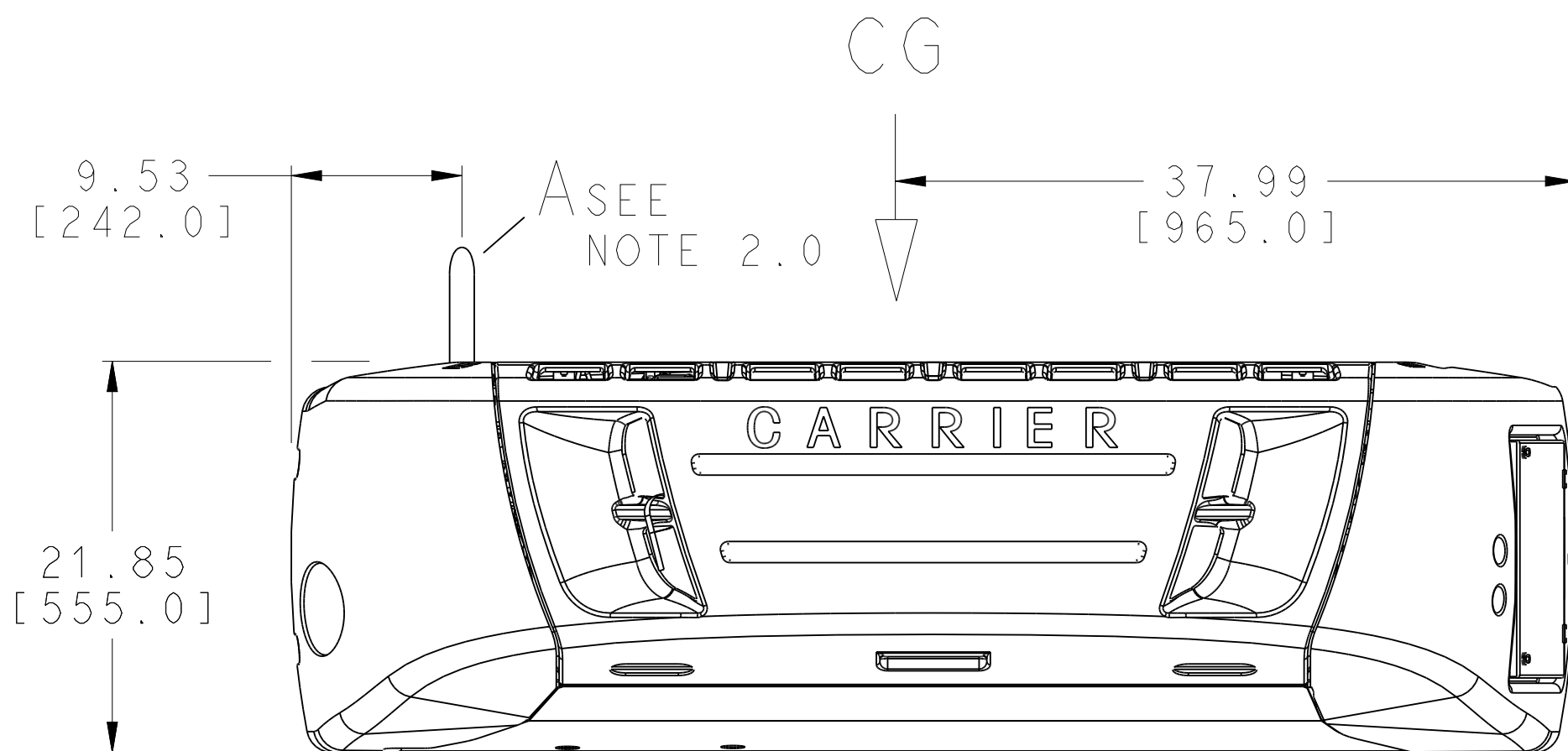
NOTES:

- 1.0 ALL DIMENSIONS SHOWN ARE INCHES, WITH METRIC CONVERSIONS IN [MILLIMETERS].
- 2.0 A= EXHAUST PIPE



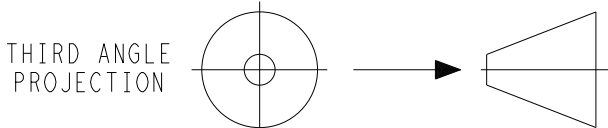
MODEL	DESCRIPTION	WEIGHT
SUPRA 5 SERIES	w/o STANDBY (TDB)	837 lbs [380 Kg]
	w/ STANDBY (TDS)	875 lbs [397 Kg]

*(WEIGHT INCLUDES WATER, OIL, REFRIGERANT, ETC.)



UNIT DIMENSIONAL DATA - 5 SERIES

A	REV'D INITIAL RELEASE;UPDATED UNIT WEIGHTS	25 SEPT 15	MGC			71N0232P15
A1	PRELIMINARY RELEASE.	10 SEPT 15	MGC			71N0232P15
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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TITLE
INSTALLATION INSTRUCTION

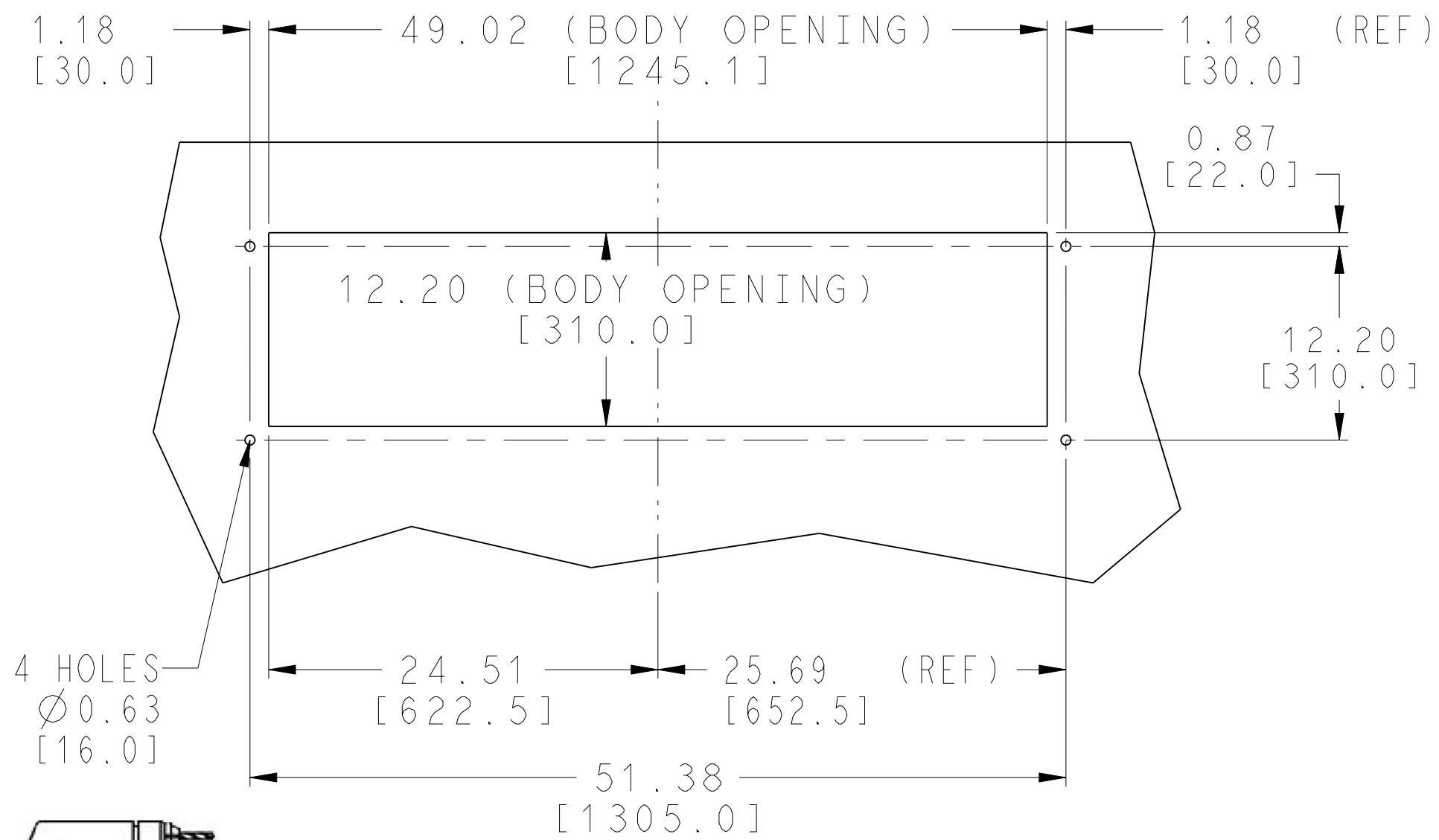
DRAWING NO.
98-03352
SHEET 3 OF

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SUPERSEDES:

PART CLASSIFICATION: US EAR99

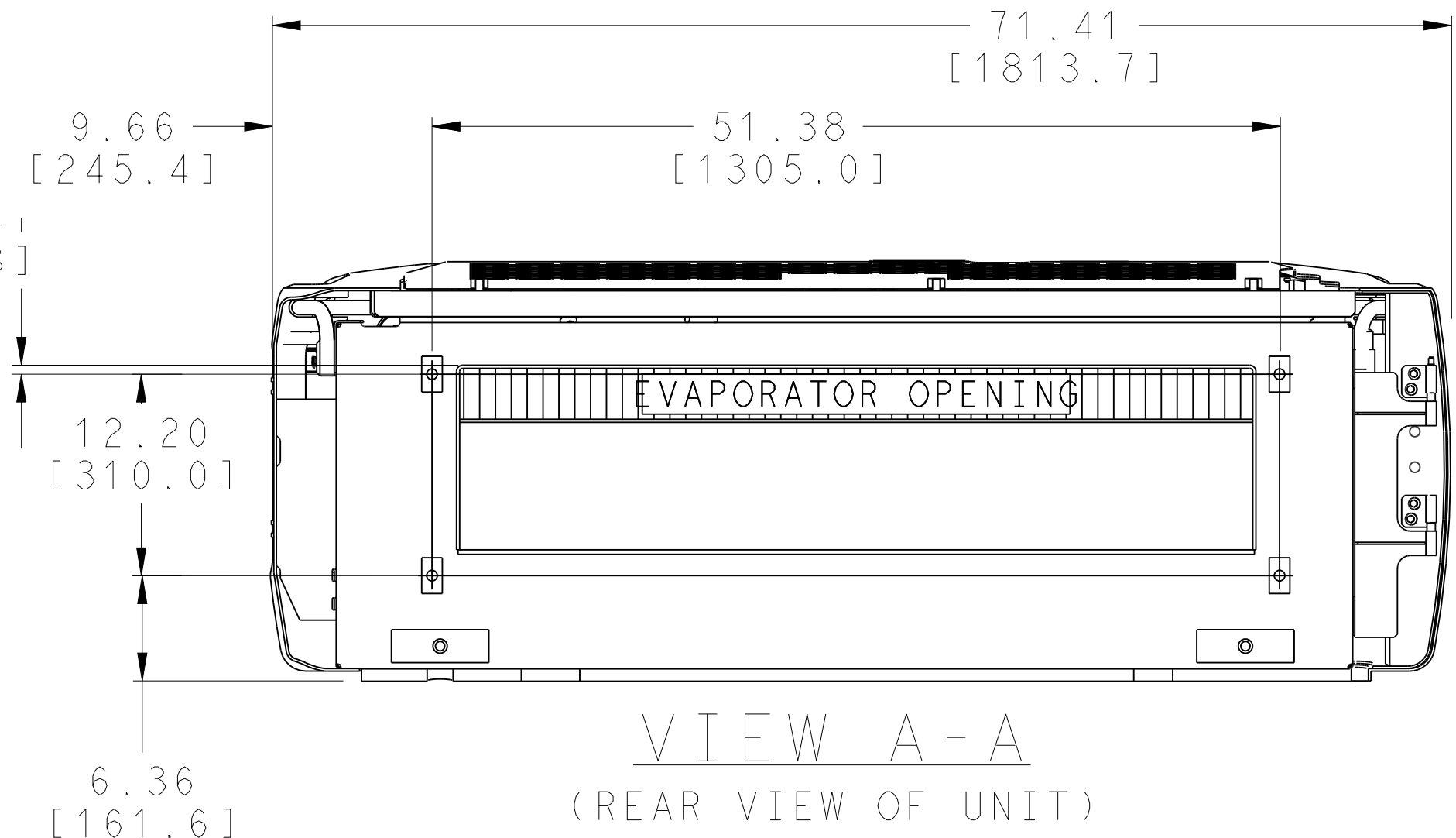
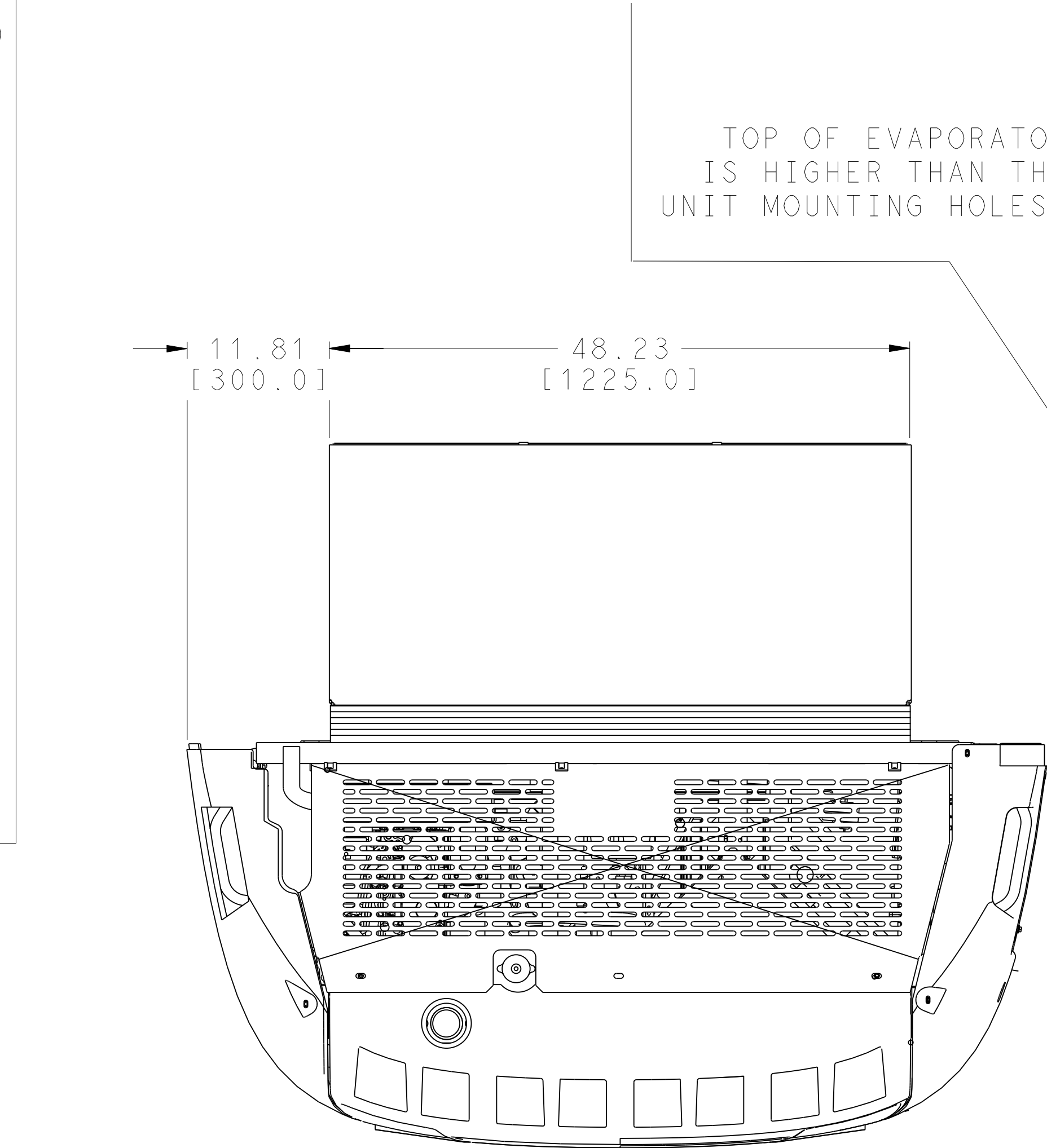
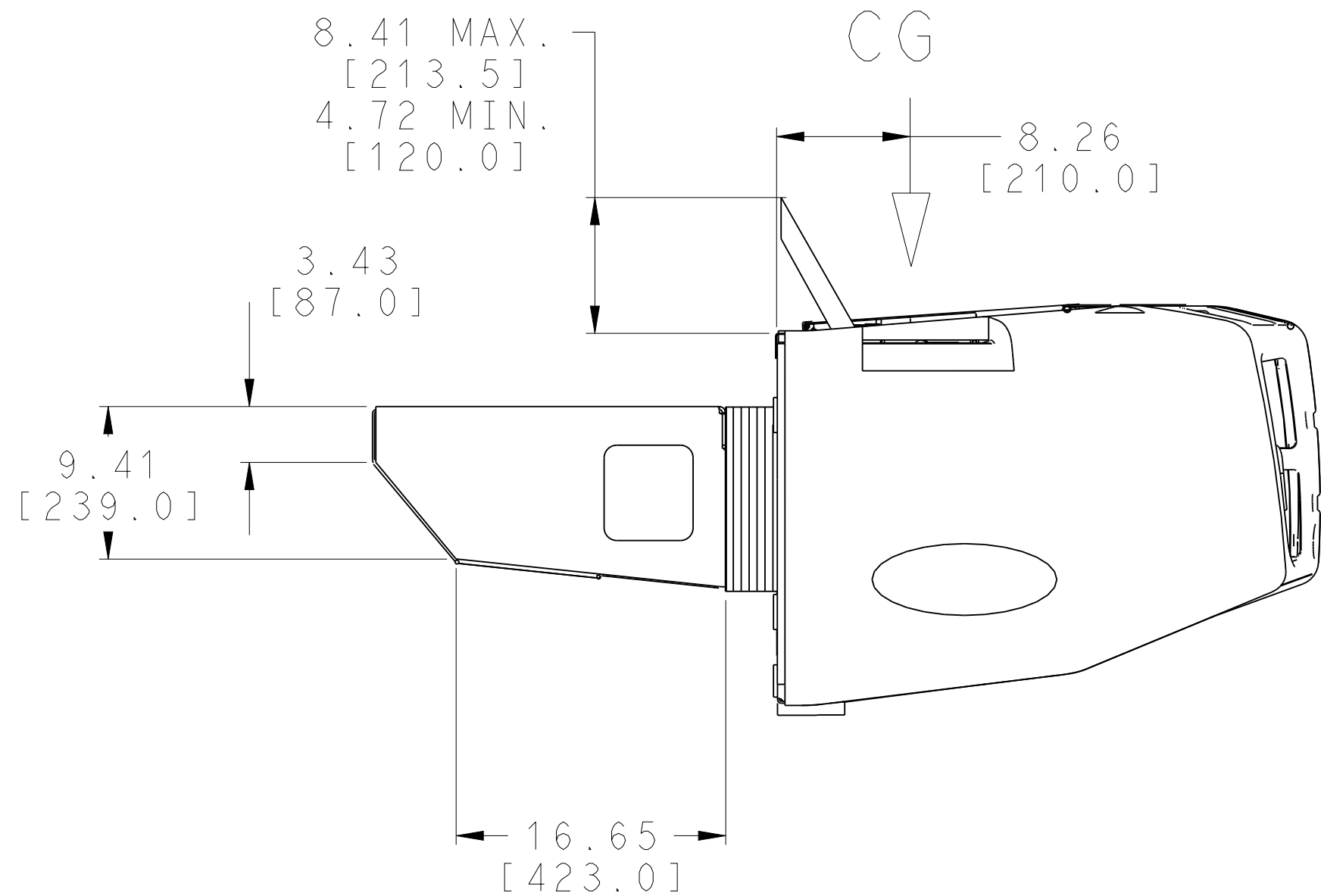
DRAWING CLASSIFICATION: US EAR99



TRUCK BODY PREPARATION
(FRONT(OUTSIDE) VIEW OF TRUCK BODY)
FROM SHT.2

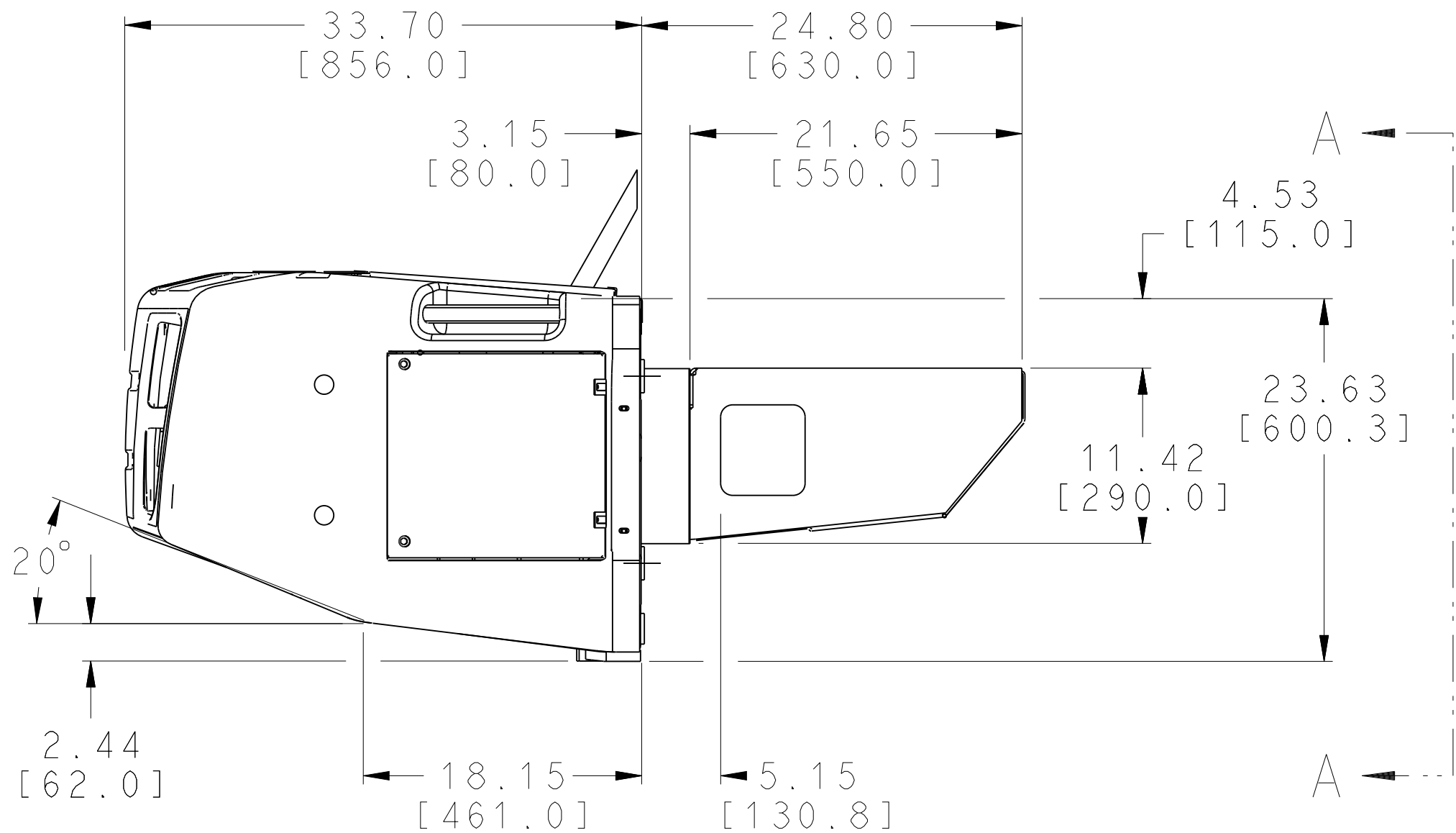
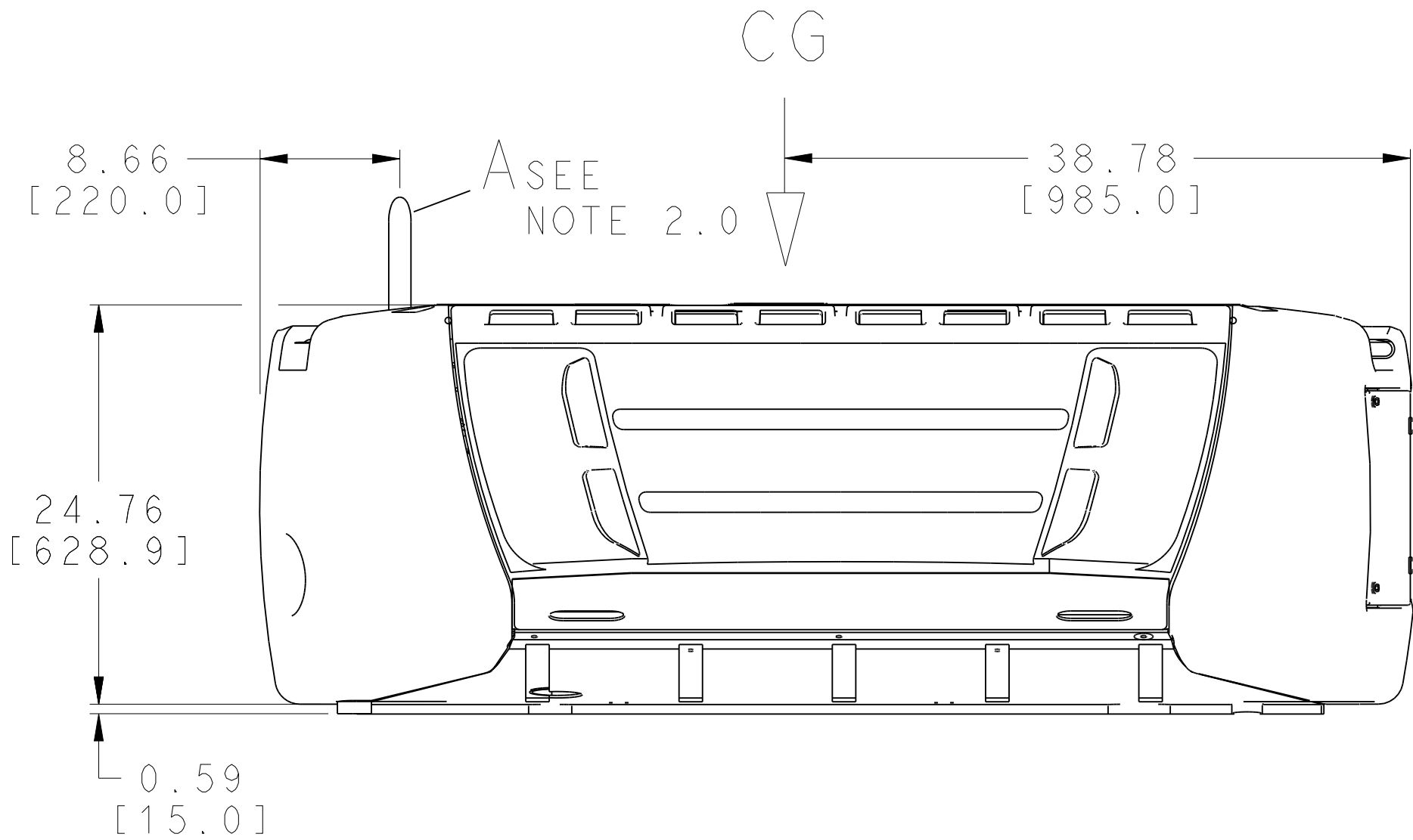
NOTES:

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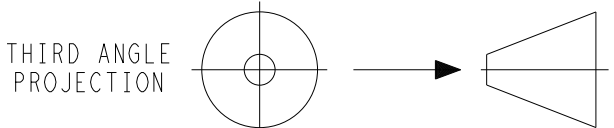
MODEL	DESCRIPTION	WEIGHT
SUPRA 6 SERIES	w/o STANDBY (TDB)	924 lbs [420 Kg]
	w/ STANDBY (TDS)	982 lbs [445 Kg]
SUPRA 7 SERIES	w/o STANDBY (TDB)	934 lbs [424 Kg]
	w/ STANDBY (TDS)	988 lbs [448 Kg]

*(WEIGHT INCLUDES WATER, OIL, REFRIGERANT,
ETC.)



UNIT DIMENSIONAL DATA - 6 & 7 SERIES

A	REV'D INITIAL RELEASE;UPDATED UNIT WEIGHTS.	25 SEPT 15	MGC			71N0232P15
A1	PRELIMINARY RELEASE.	10 SEPT 15	MGC			71N0232P15
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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METRIC CONVERSIONS IN [MILLIMETERS]

TITLE
INSTALLATION INSTRUCTION

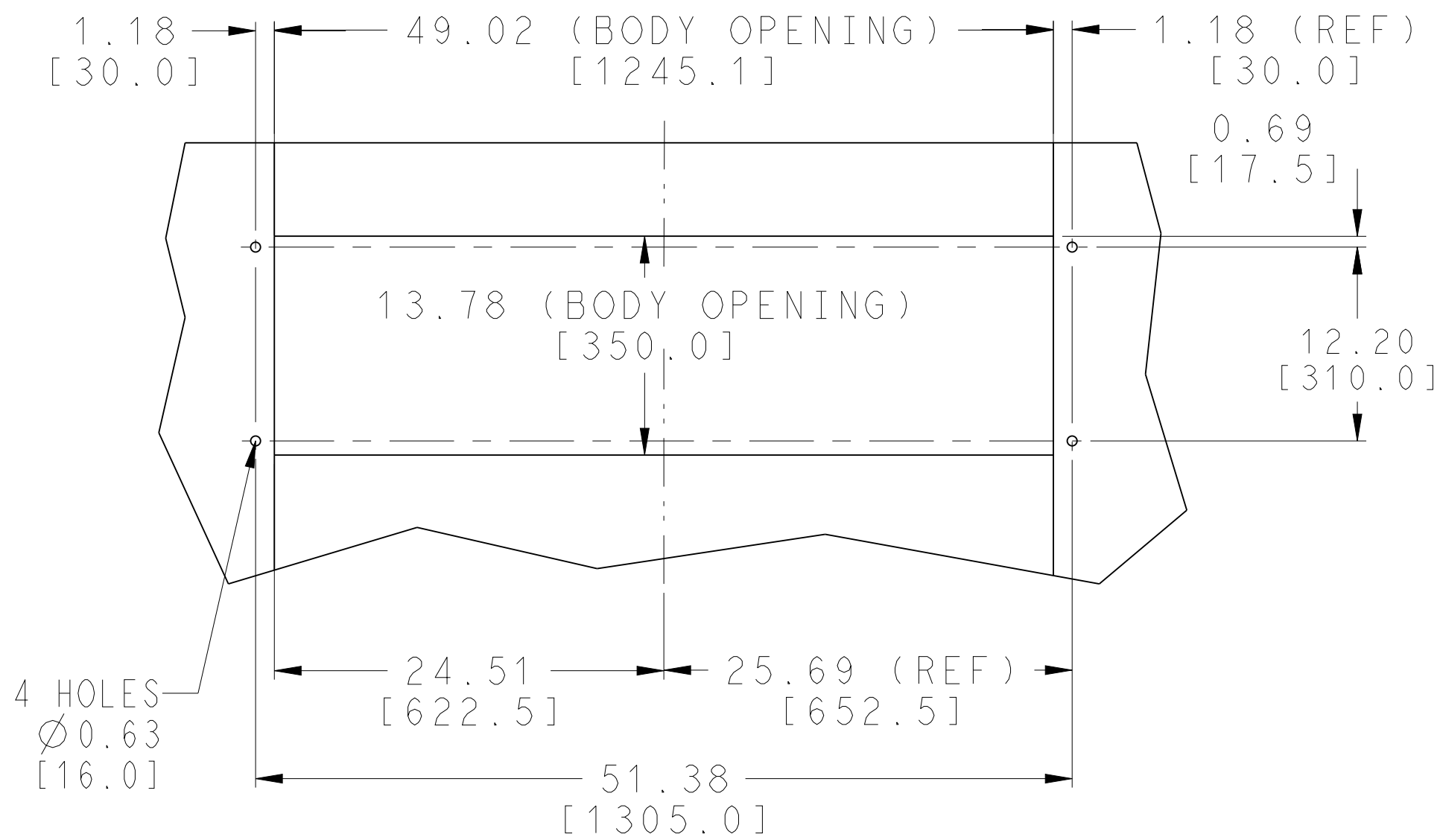
DRAWING NO.
98-03352
SHEET 4 OF

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SUPERSEDES:

PART CLASSIFICATION: US EAR99

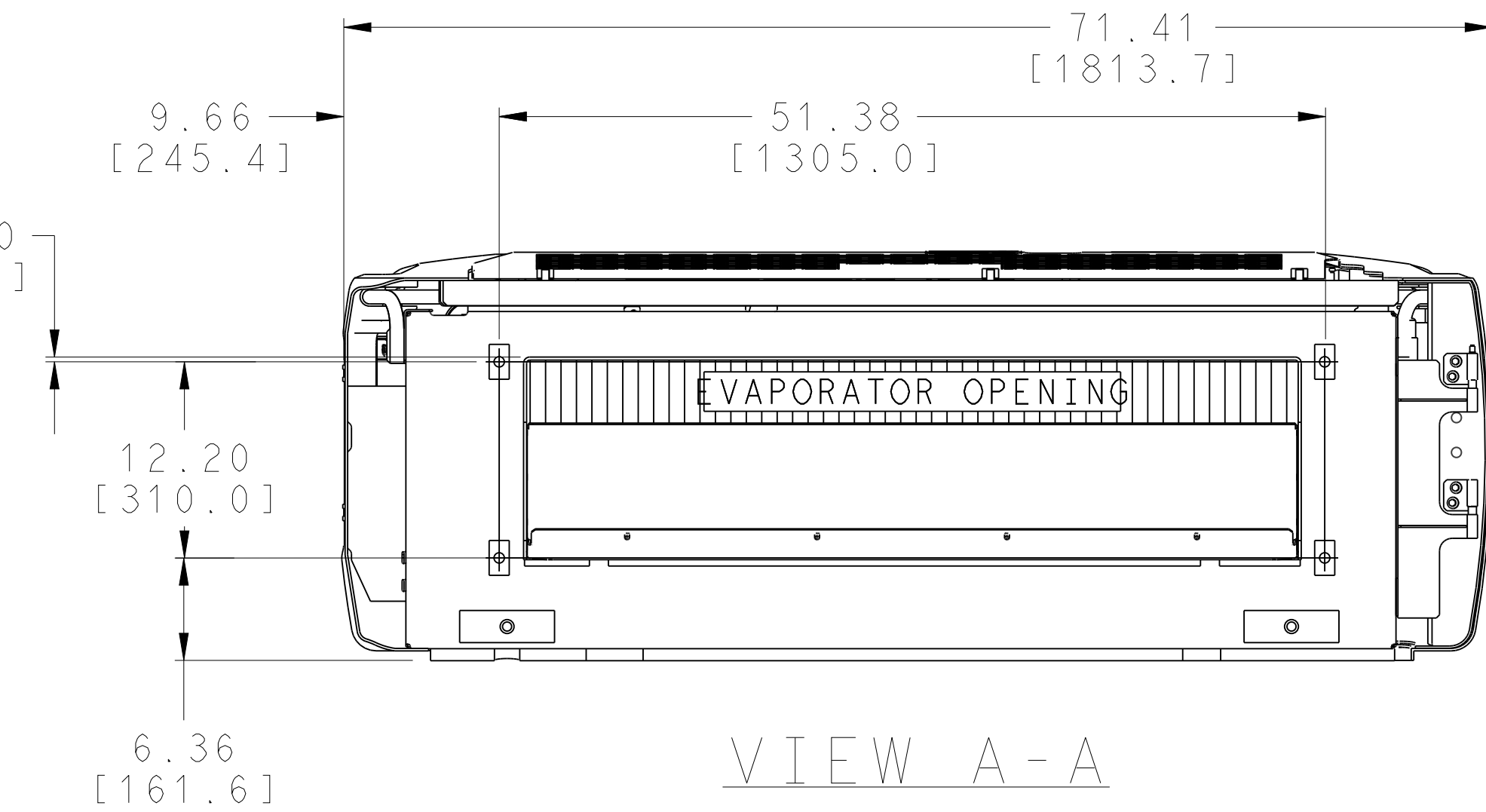
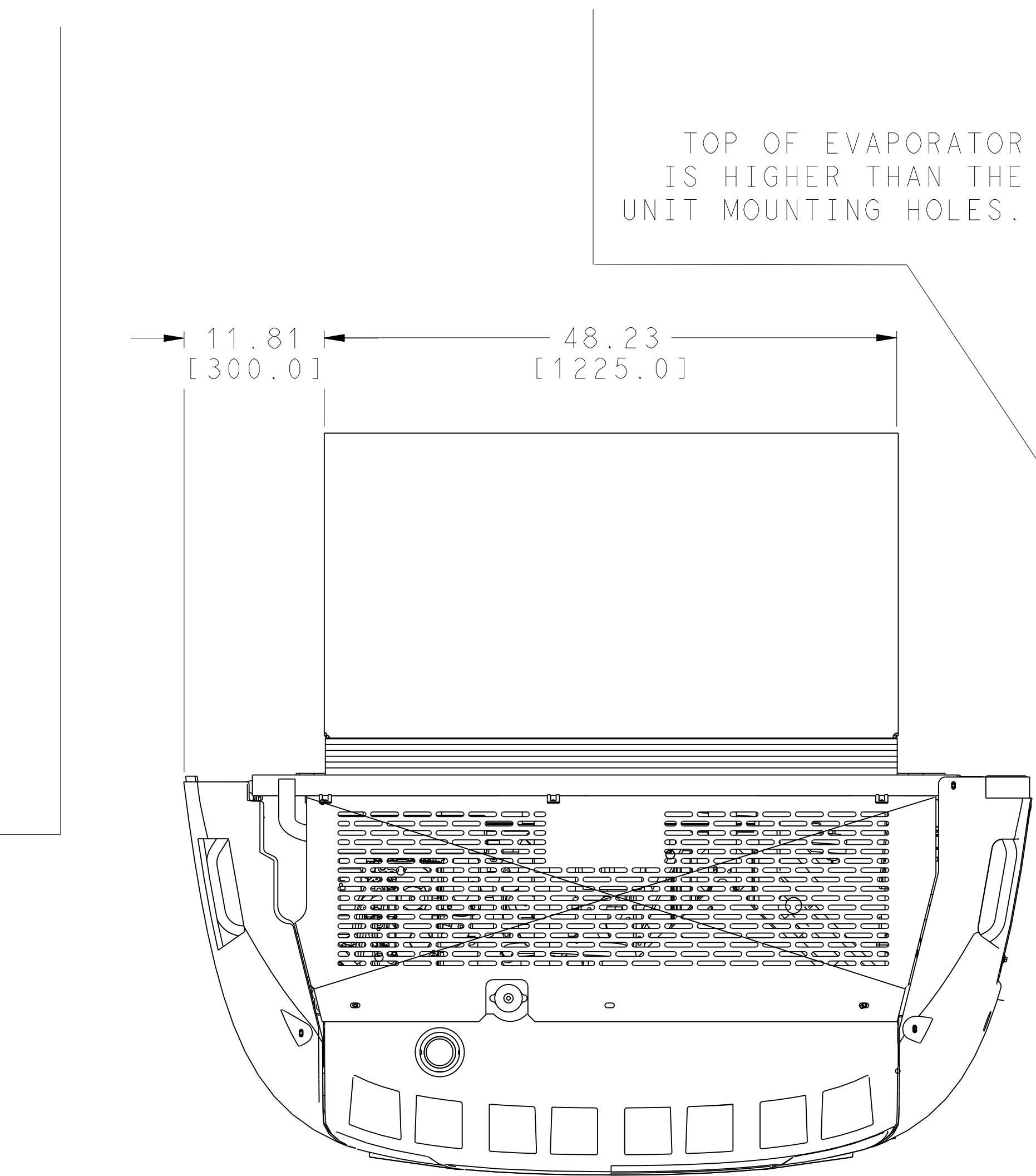
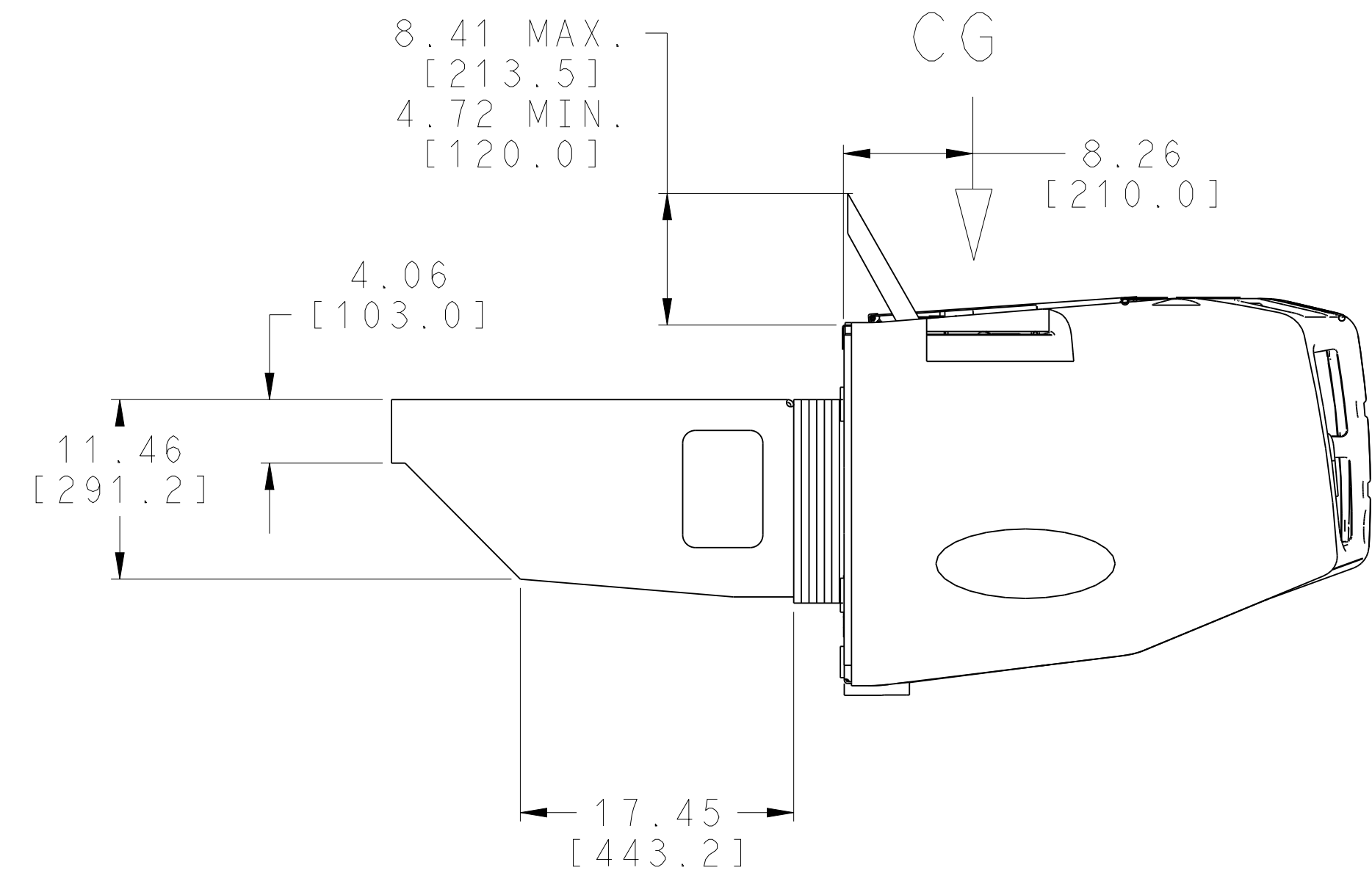
DRAWING CLASSIFICATION: US EAR99



TRUCK BODY PREPARATION
(FRONT(OUTSIDE) VIEW OF TRUCK BODY)
FROM SHT.2

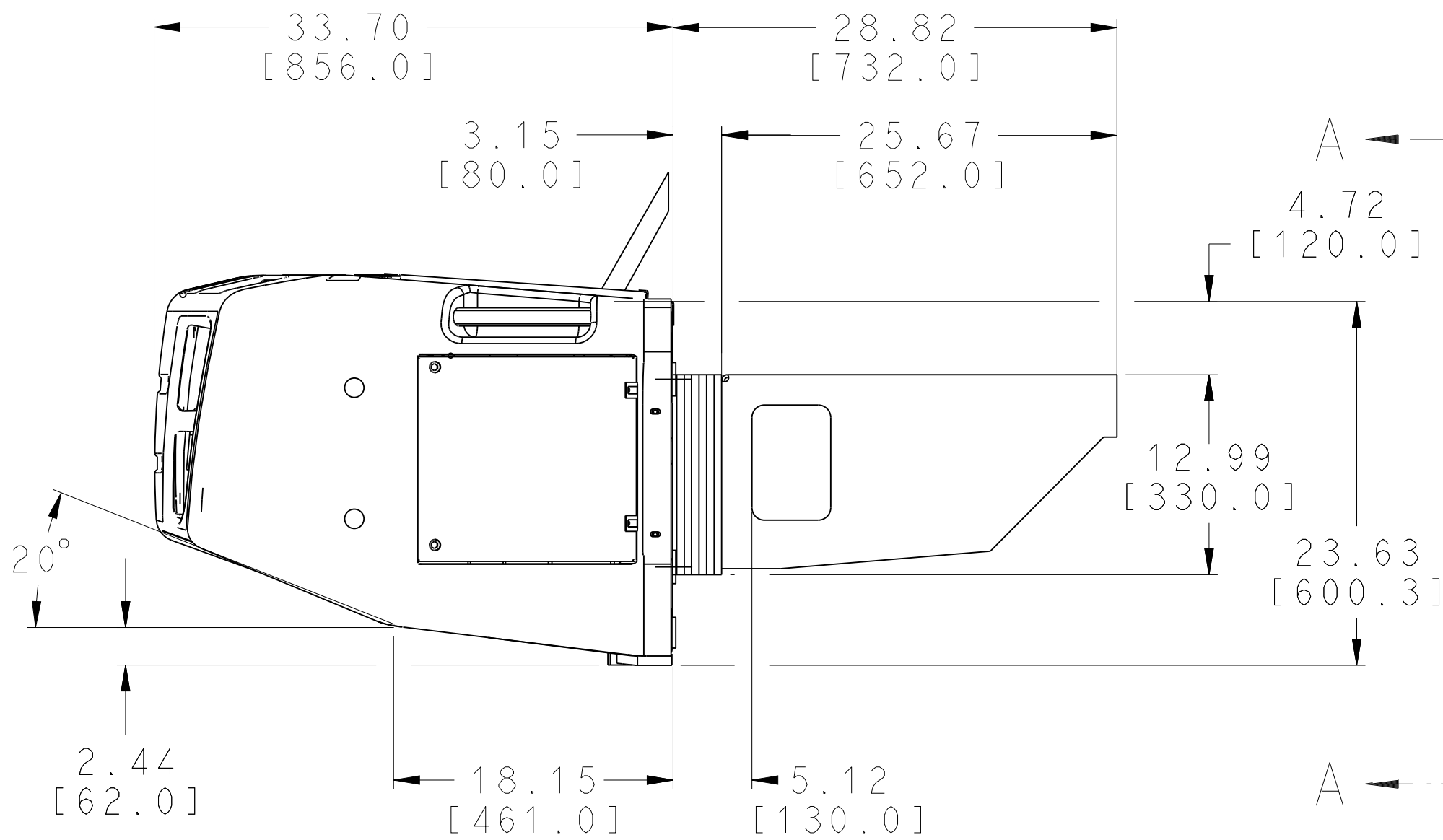
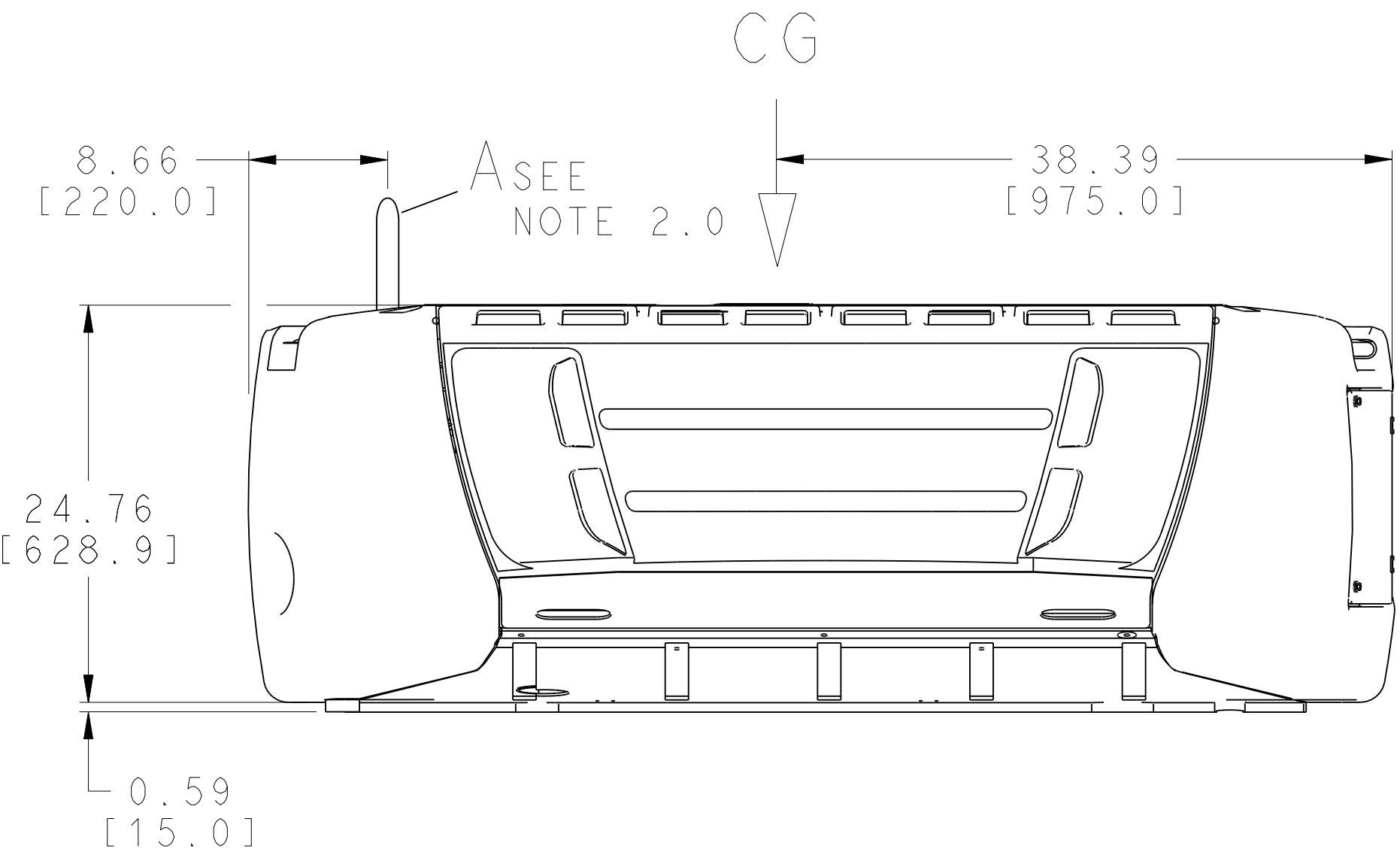
NOTES:

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- 2.0 A= EXHAUST PIPE



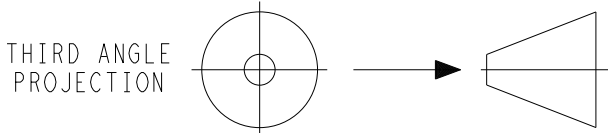
MODEL	DESCRIPTION	WEIGHT
SUPRA 8 SERIES	w/o STANDBY (TDB)	1020 lbs [463 Kg]
	w/ STANDBY (TDS)	1082 lbs [491 Kg]

*(WEIGHT INCLUDES WATER, OIL, REFRIGERANT, ETC.)



UNIT DIMENSIONAL DATA - 8 SERIES

A	REV'D INITIAL RELEASE;UPDATED UNIT WEIGHTS.	25 SEPT 15	MGC			71N0232P15
A1	PRELIMINARY RELEASE.	10 SEPT 15	MGC			71N0232P15
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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METRIC CONVERSIONS IN [MILLIMETERS]

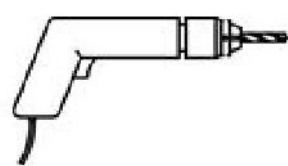
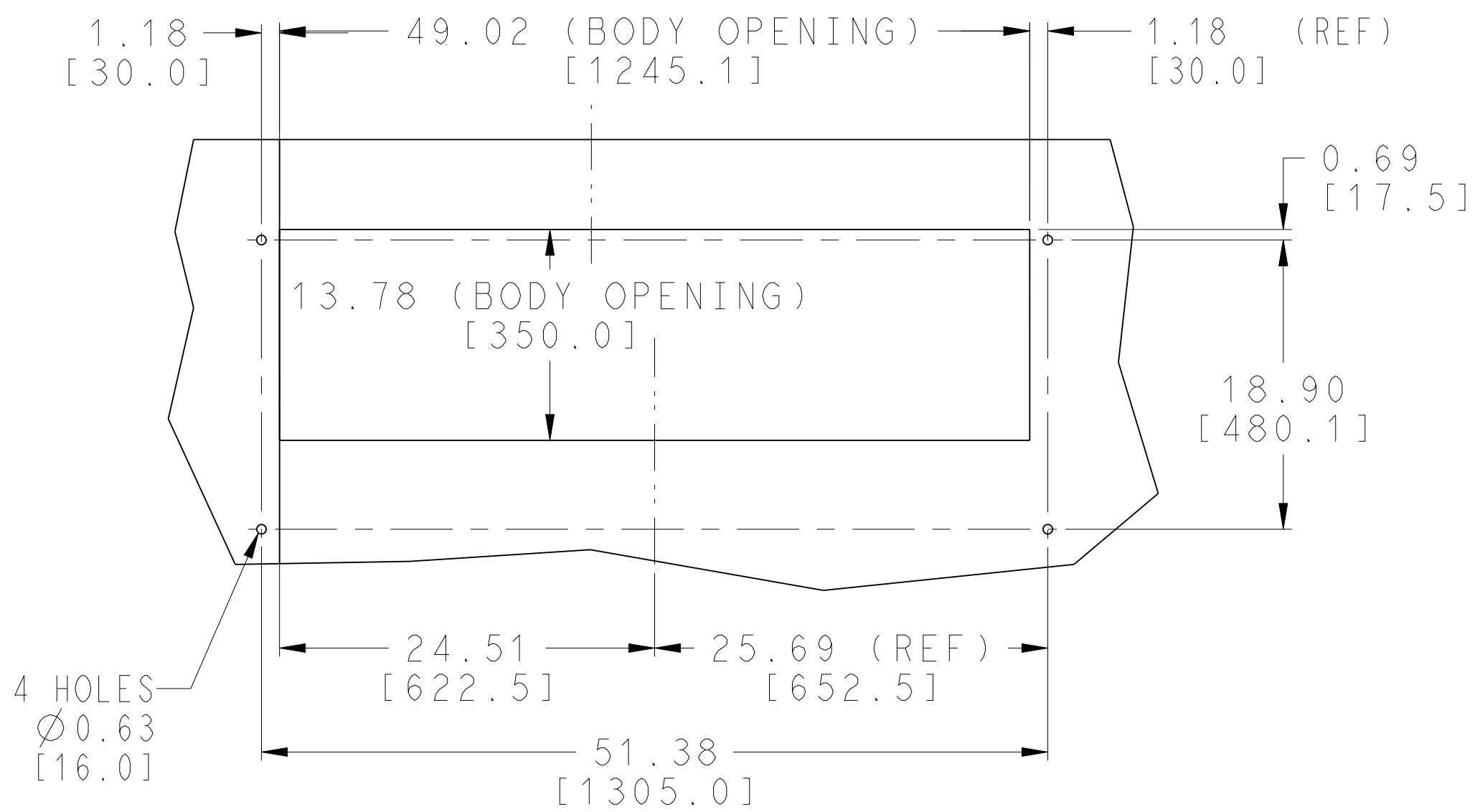
TITLE
INSTALLATION INSTRUCTION

DRAWING NO.
98-03352
SHEET 5 of
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SUPERSEDES:

PART CLASSIFICATION: US EAR99

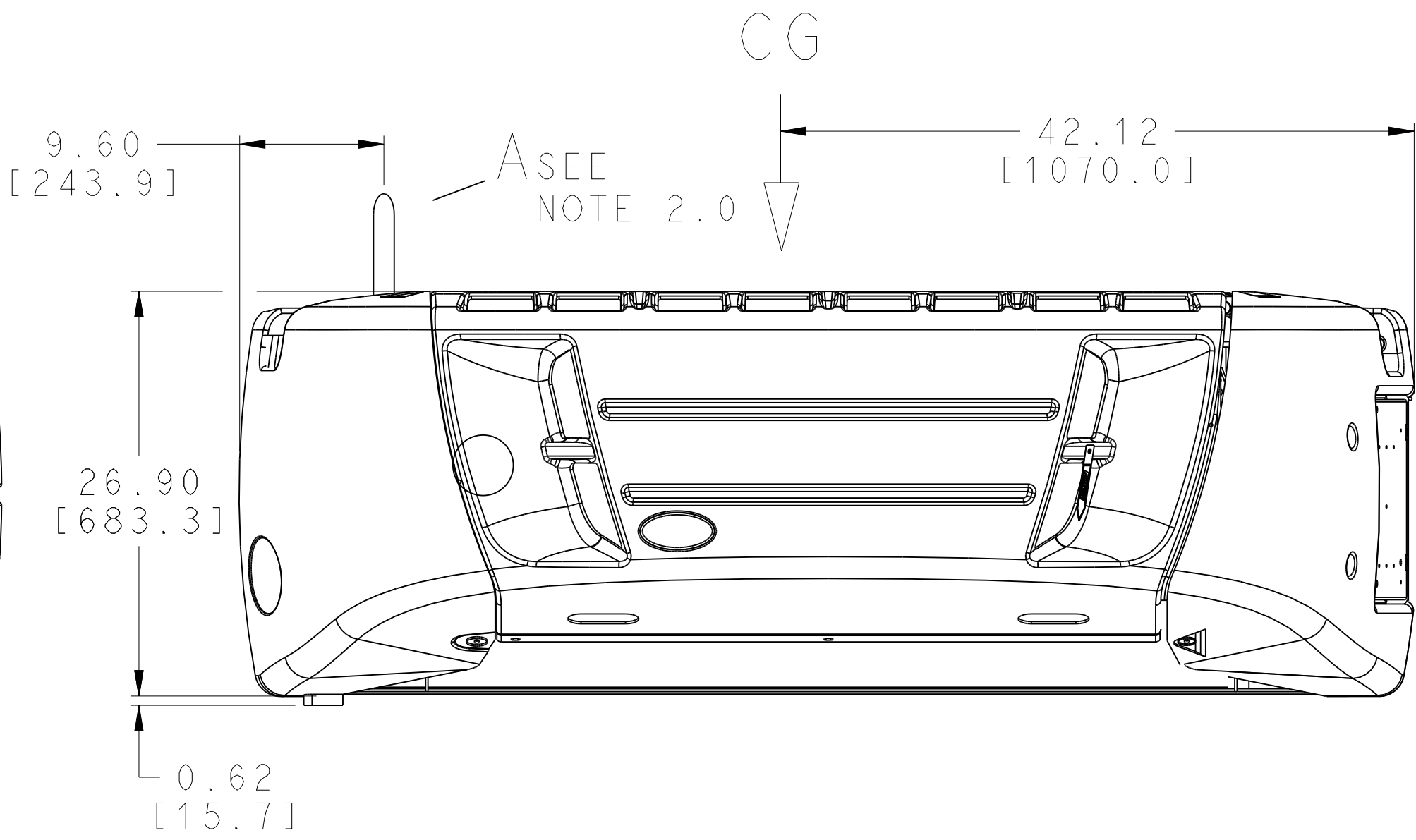
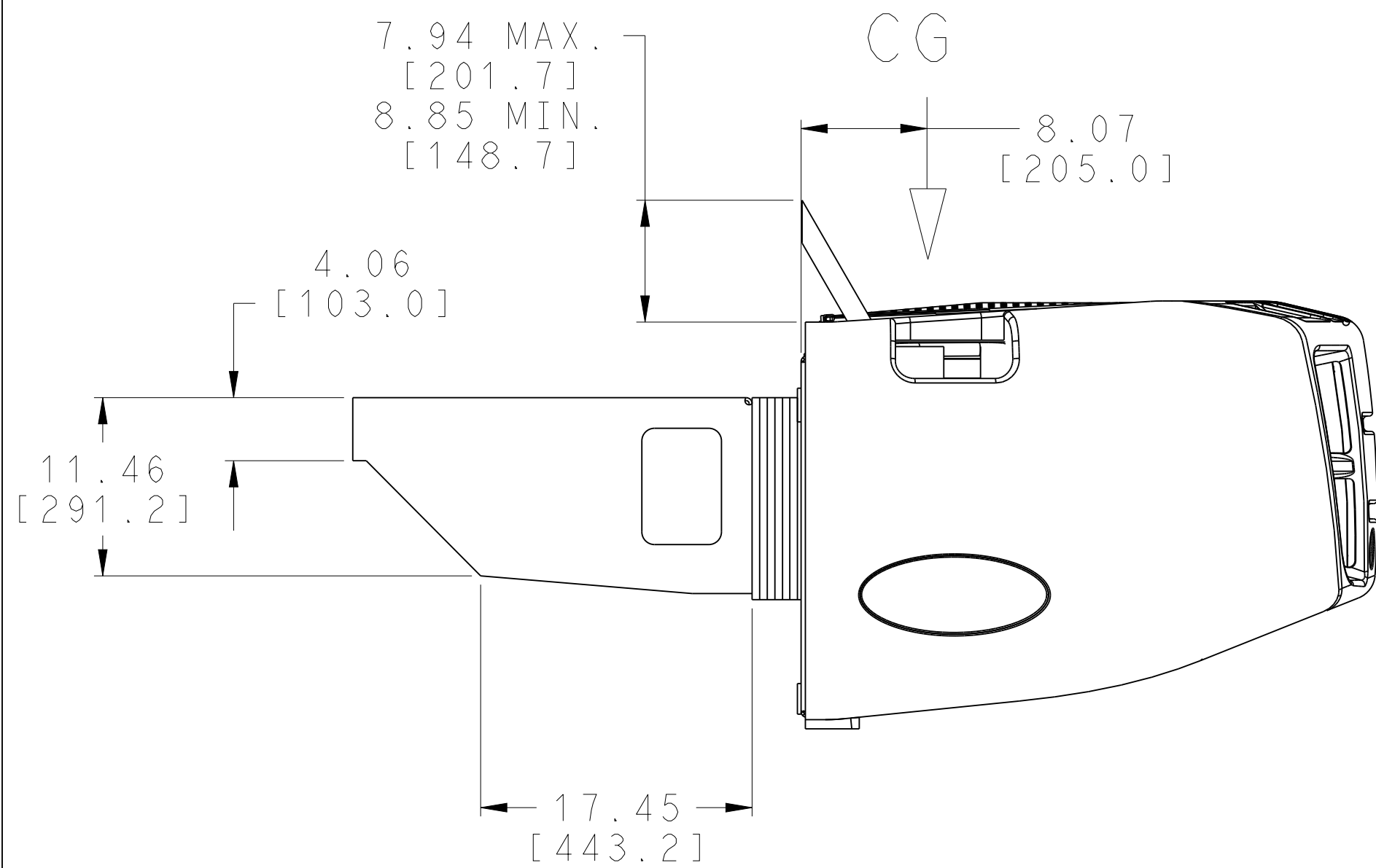
DRAWING CLASSIFICATION: US EAR99



TRUCK BODY PREPARATION
(FRONT(OUTSIDE) VIEW OF TRUCK BODY)
FROM SHT.2

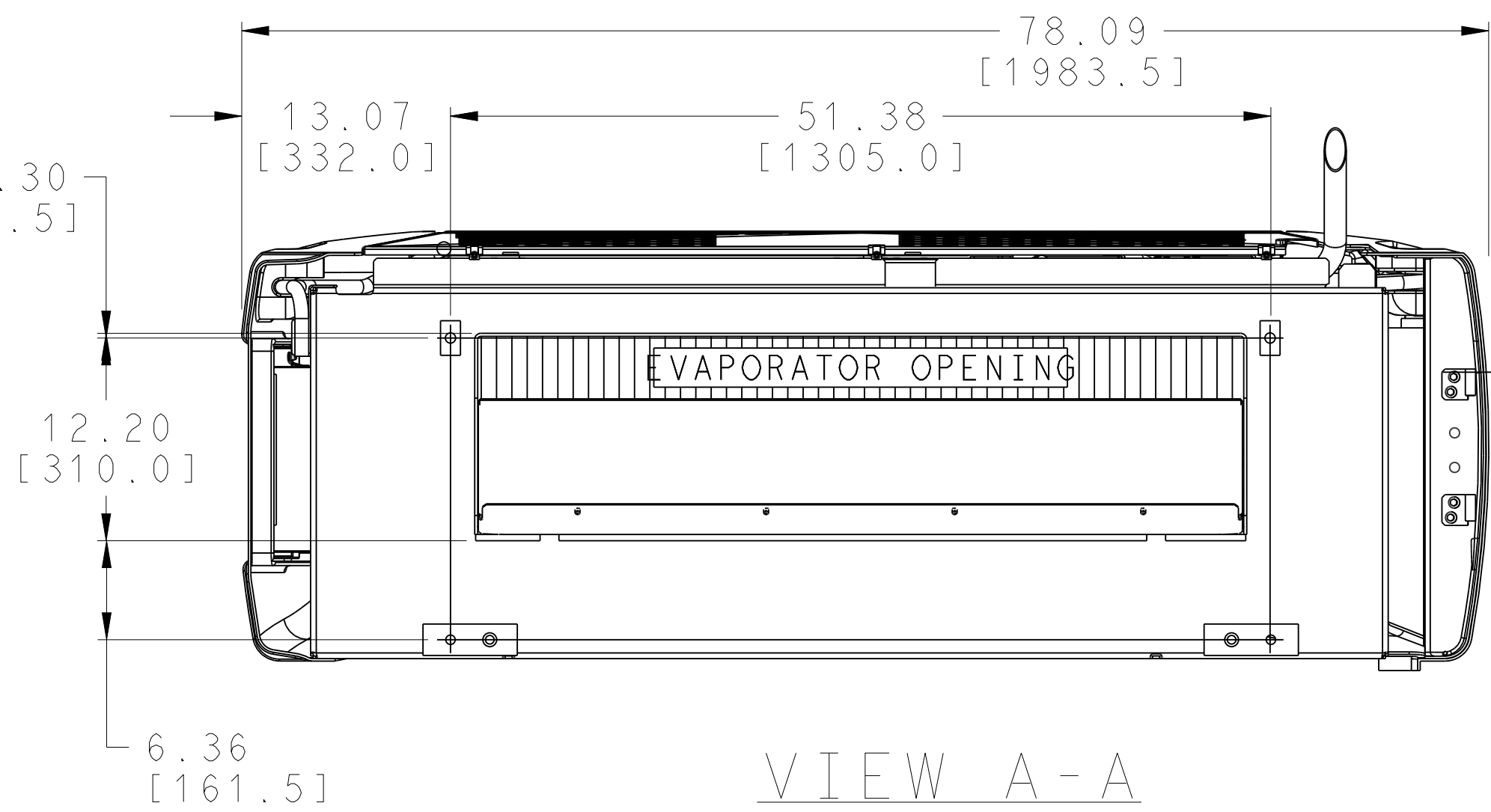
NOTES:

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METRIC CONVERSIONS IN [MILLIMETERS].
- 2.0 A= EXHAUST PIPE



UNIT DIMENSIONAL DATA - 9 SERIES

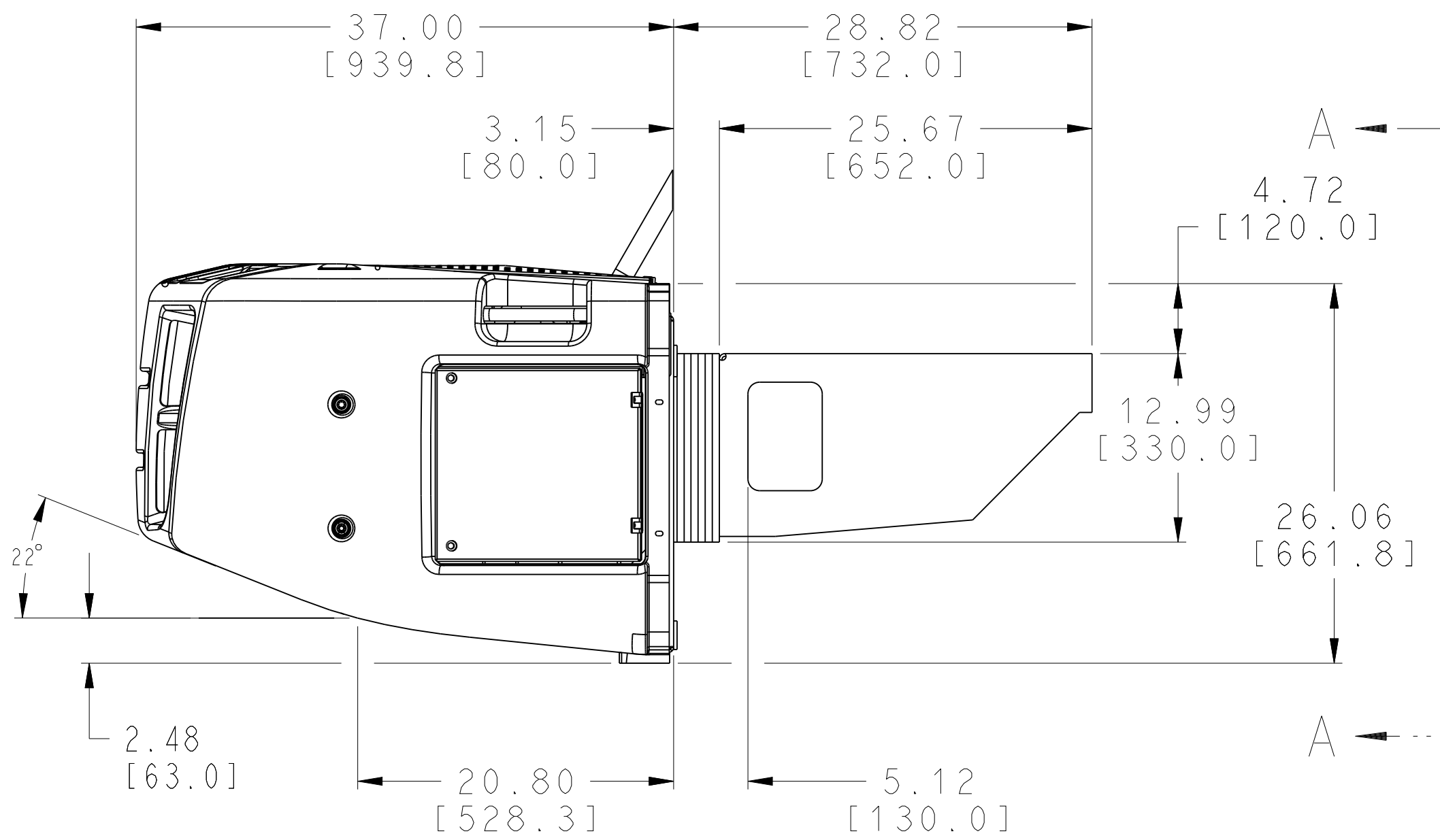
TOP OF EVAPORATOR
IS HIGHER THAN THE
UNIT MOUNTING HOLES.



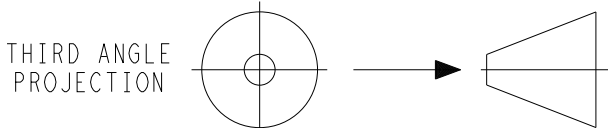
VIEW A-A
(REAR VIEW OF UNIT)

MODEL	DESCRIPTION	WEIGHT
SUPRA 9 SERIES	w/o STANDBY (TDB)	1309 lbs [594 Kg]
	w/ STANDBY (TDS)	1404 lbs [637 Kg]

*(WEIGHT INCLUDES WATER, OIL, REFRIGERANT,
ETC.)



A	REV'D INITIAL RELEASE;UPDATED UNIT WEIGHTS.	25 SEPT 15	MGC			71N0232P15
A1	PRELIMINARY RELEASE.	10 SEPT 15	MGC			71N0232P15
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TITLE
INSTALLATION INSTRUCTION

DRAWING NO.
98-03352
SHEET 6 OF

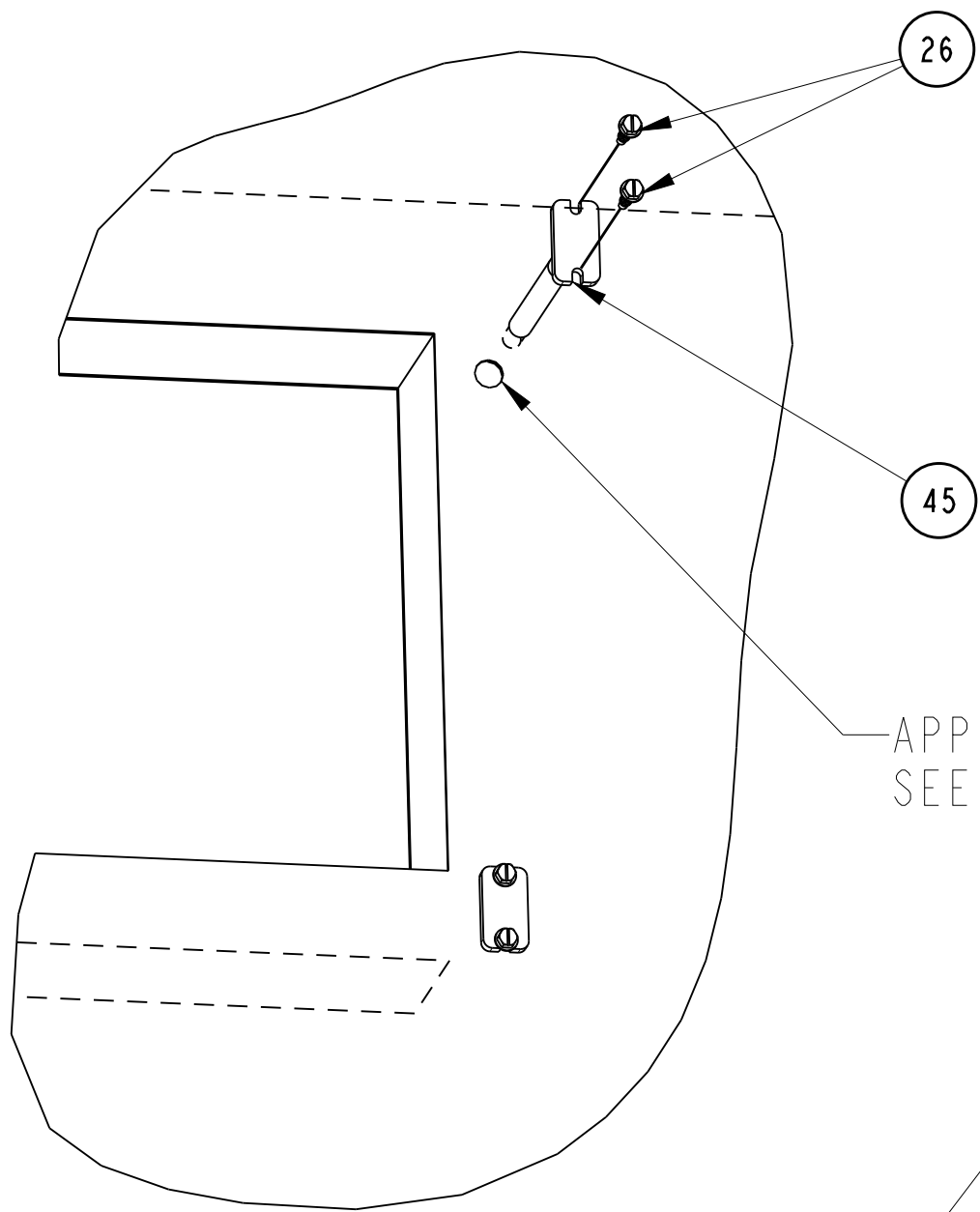
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SUPERSEDES:

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99

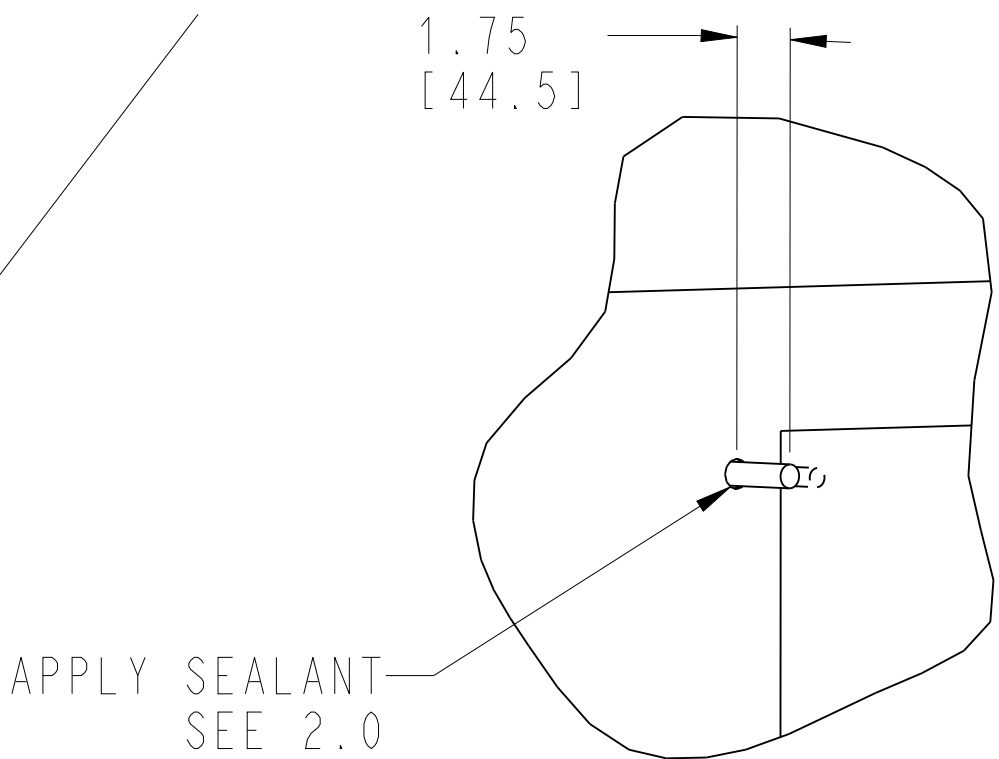
1.0 WORKING FROM THE INSIDE OF THE TRUCK BODY, APPLY SEALANT AROUND EACH MOUNTING HOLE. INSTALL THE 4 TEE BOLTS (ITEM 45) INTO 4 MOUNTING HOLES USING SELF TAPPING SCREWS (ITEM 26) TO SECURE THE TEE BOLTS. MAKE CERTAIN ALL OF THE ABOVE ITEMS ARE SECURED TO THE INTERNAL STRUCTURAL MEMBERS OF THE BODY.



INSIDE TRUCK BODY

2.0 WORKING FROM THE OUTSIDE OF THE TRUCK BODY, APPLY SEALANT AROUND EACH TEE-BOLT. MAKE CERTAIN THE THREADS OF EACH TEE-BOLT (ITEM 45) REMAIN CLEAN AND FREE OF SEALANT. FAILURE TO KEEP THREADS CLEAN WILL AFFECT UNIT MOUNTING TORQUE VALUES.

3.0 ADJUST (CUT) EACH TEE-BOLT (ITEM 45) TO 1.75 INCHES FROM OUTER WALL OF THE TRUCK BODY.

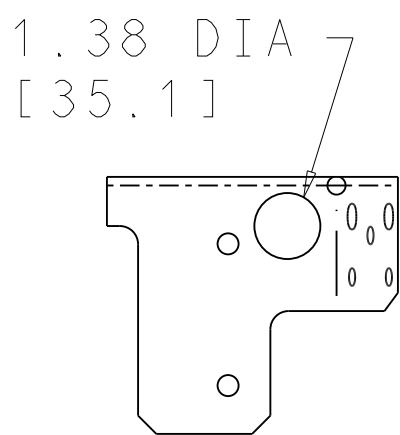


OUTSIDE TRUCK BODY

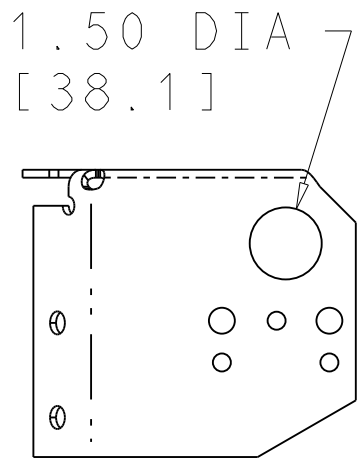
4.0 PREPARE THE UNIT FOR INSTALLATION:

4.1 TO AVOID DAME TO THE UNIT DOORS, AND TO GAIN BETTER ACCESS FOR MOUNTING THE UNIT, REMOVE THE DOORS AS SHOWN.

4.2 ATTACH SPREADER BAR TO THE UNIT USING THE LIFTING HOLES / SLOTS SHOWN. MAKE CERTAIN THE APPROPRIATE HOLE OR SLOT IS BEING USED FOR EACH OF THE DIFFERENT UNIT MODELS.



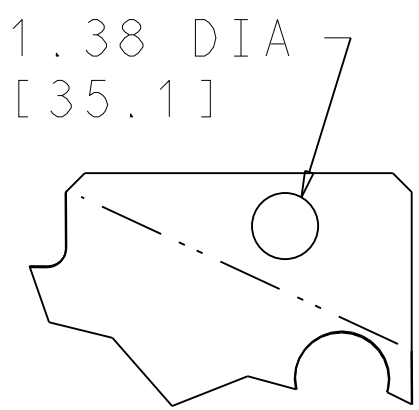
5 SERIES



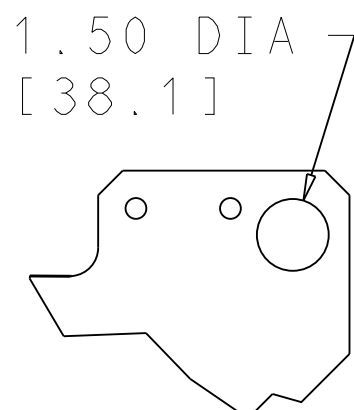
6, 7, 8 & 9 SERIES

UNIT LIFTING HOLE / SLOT SIZES AND BODY PREPARATION

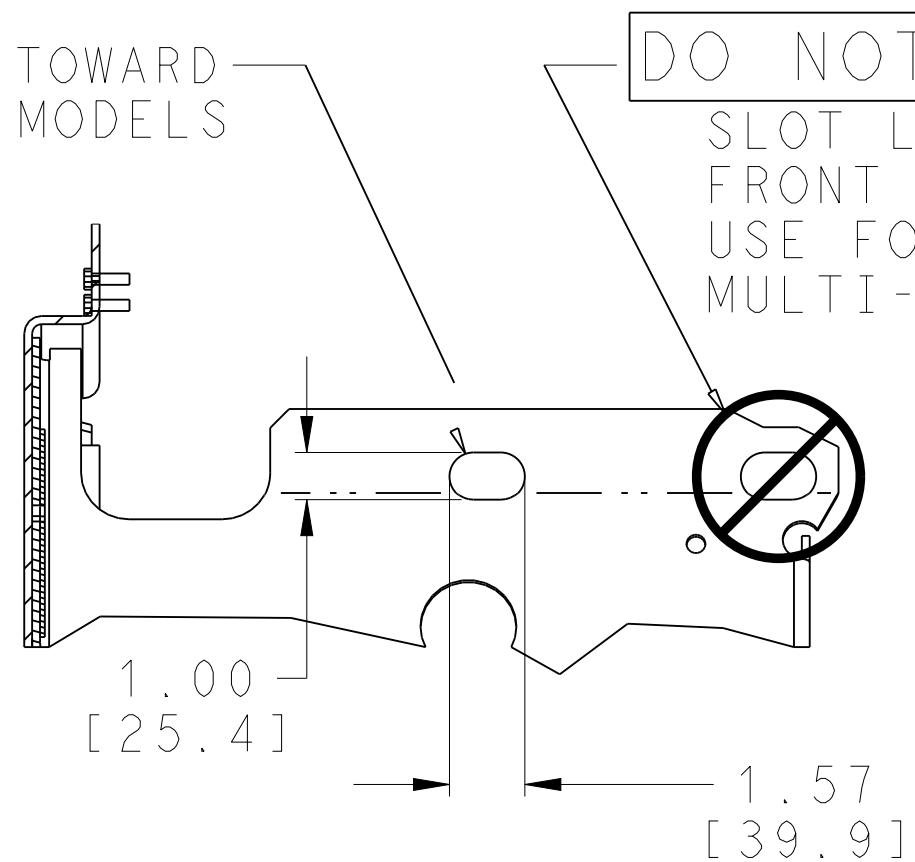
USE THE LIFTING SLOT LOCATED TOWARD THE REAR OF UNIT FOR SUPRA 960 MODELS



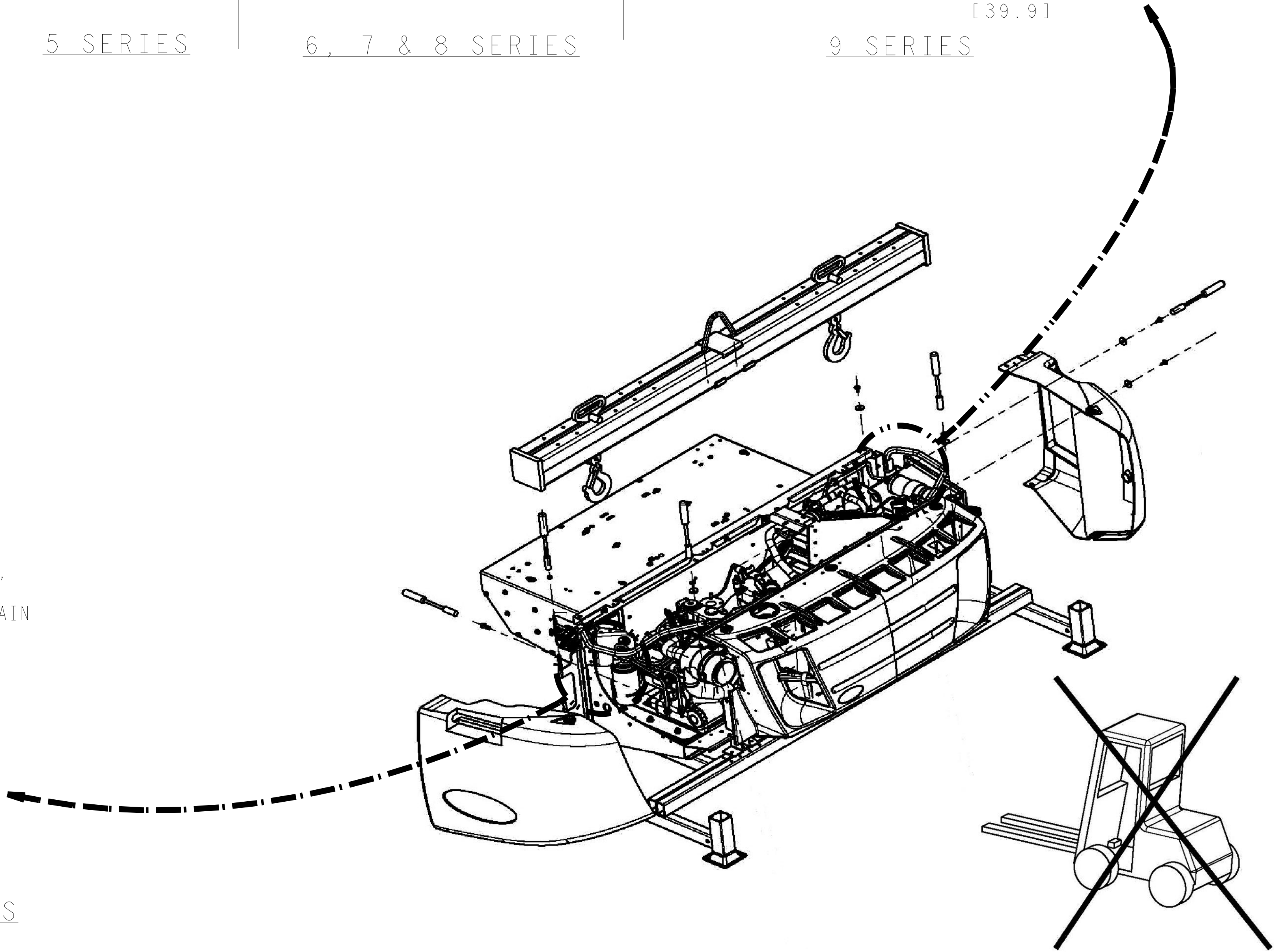
5 SERIES



6, 7 & 8 SERIES

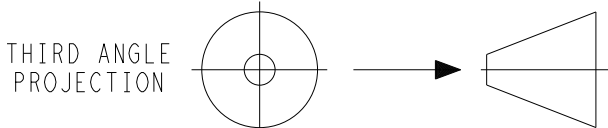


9 SERIES



WHEN REMOVING UNIT FROM PALLET,
DO NOT LIFT UNIT FROM UNDERNEATH.

B	STEP 4.X WAS 3.X; ADDED 3.0 & DIM.: 1.75	10 MAY 2016	MGC			71N0219P16
A	INITIAL RELEASE	25 SEPT 15	MGC			71N0232P15
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



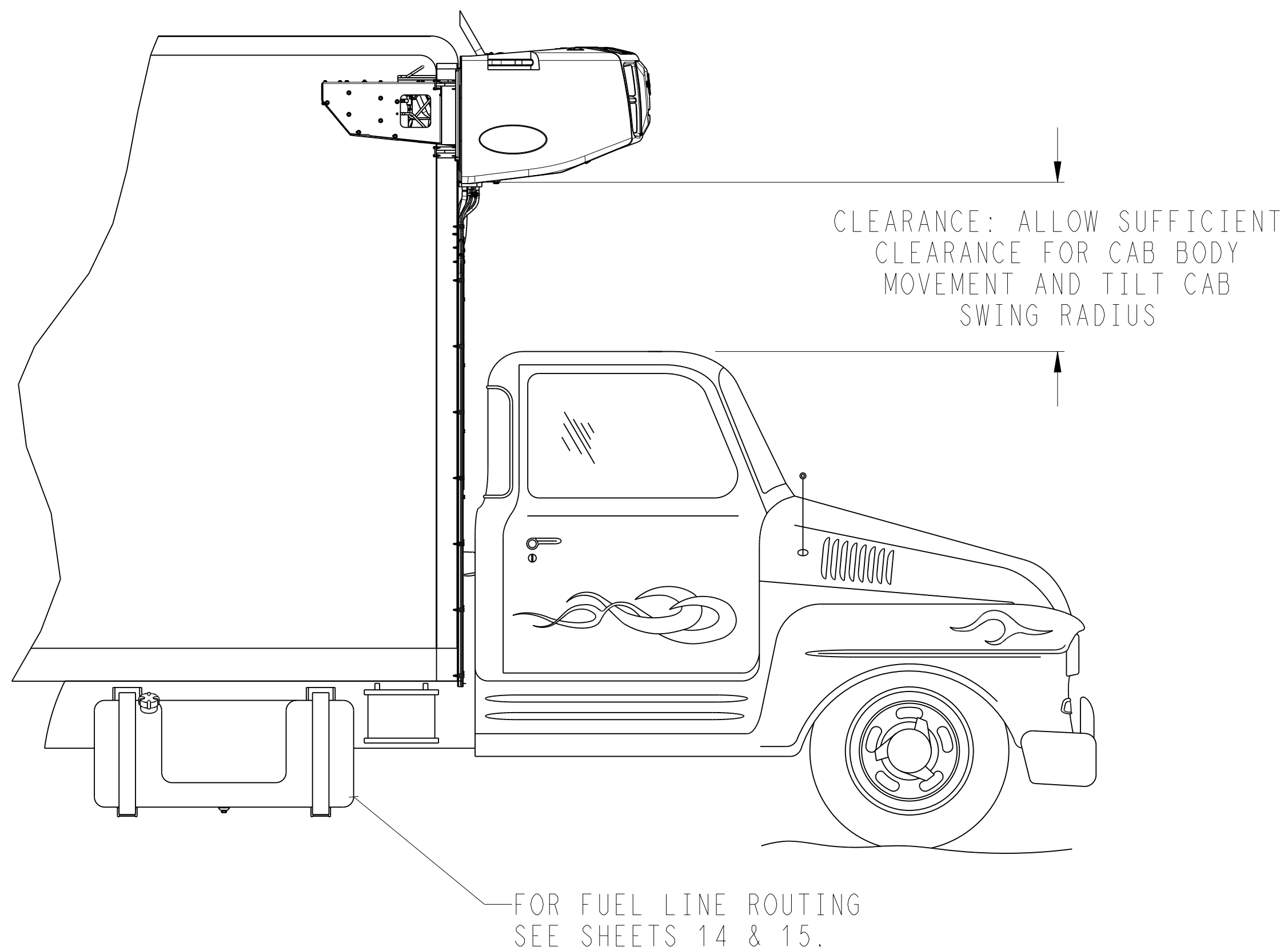
IMPERIAL INCH FORMAT:
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METRIC CONVERSIONS IN [MILLIMETERS]

TITLE
INSTALLATION INSTRUCTION

SUPERSEDES: _____

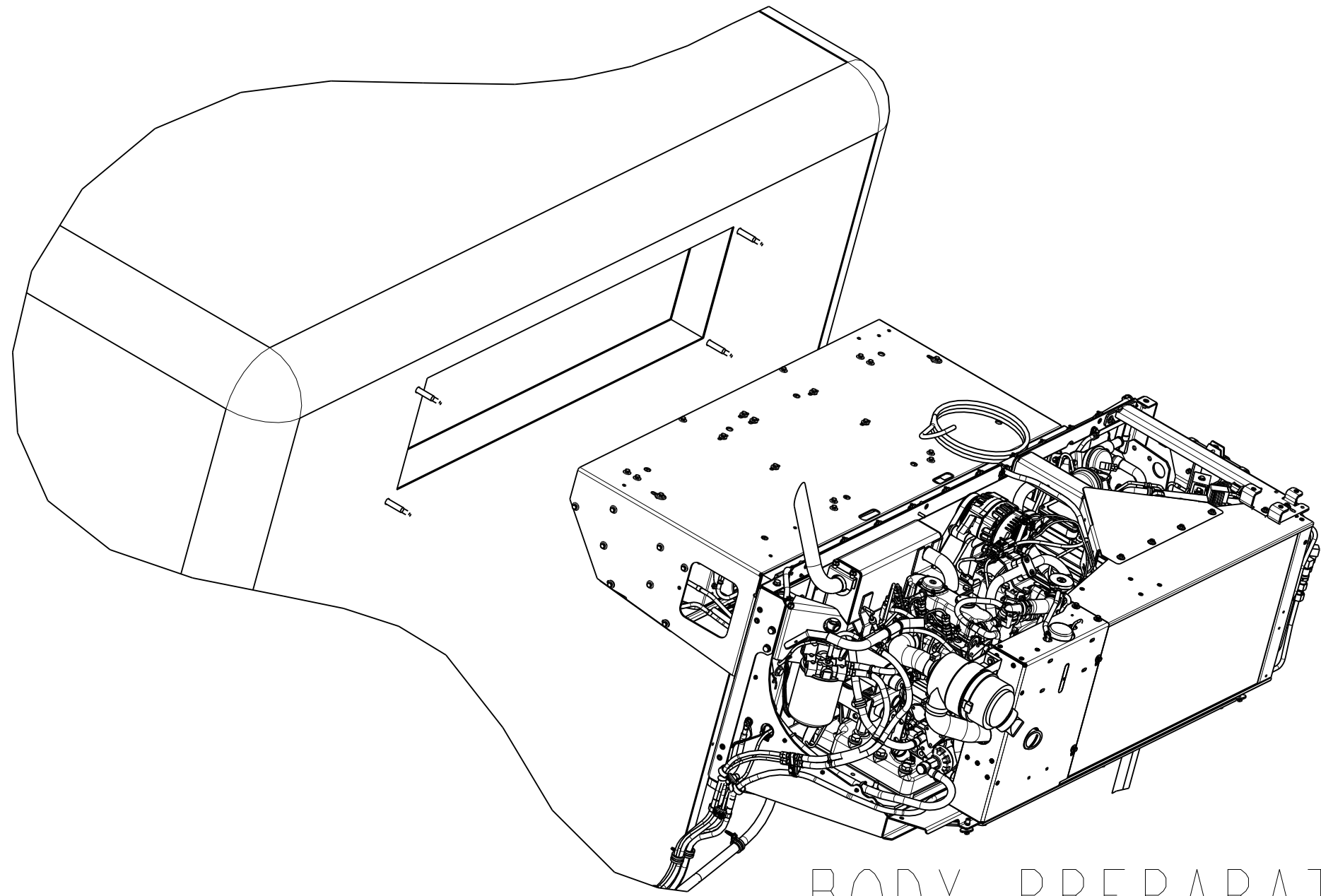
DRAWING NO.	REV
98-03352	B
SHEET 7 OF	

PART CLASSIFICATION: US EAR99



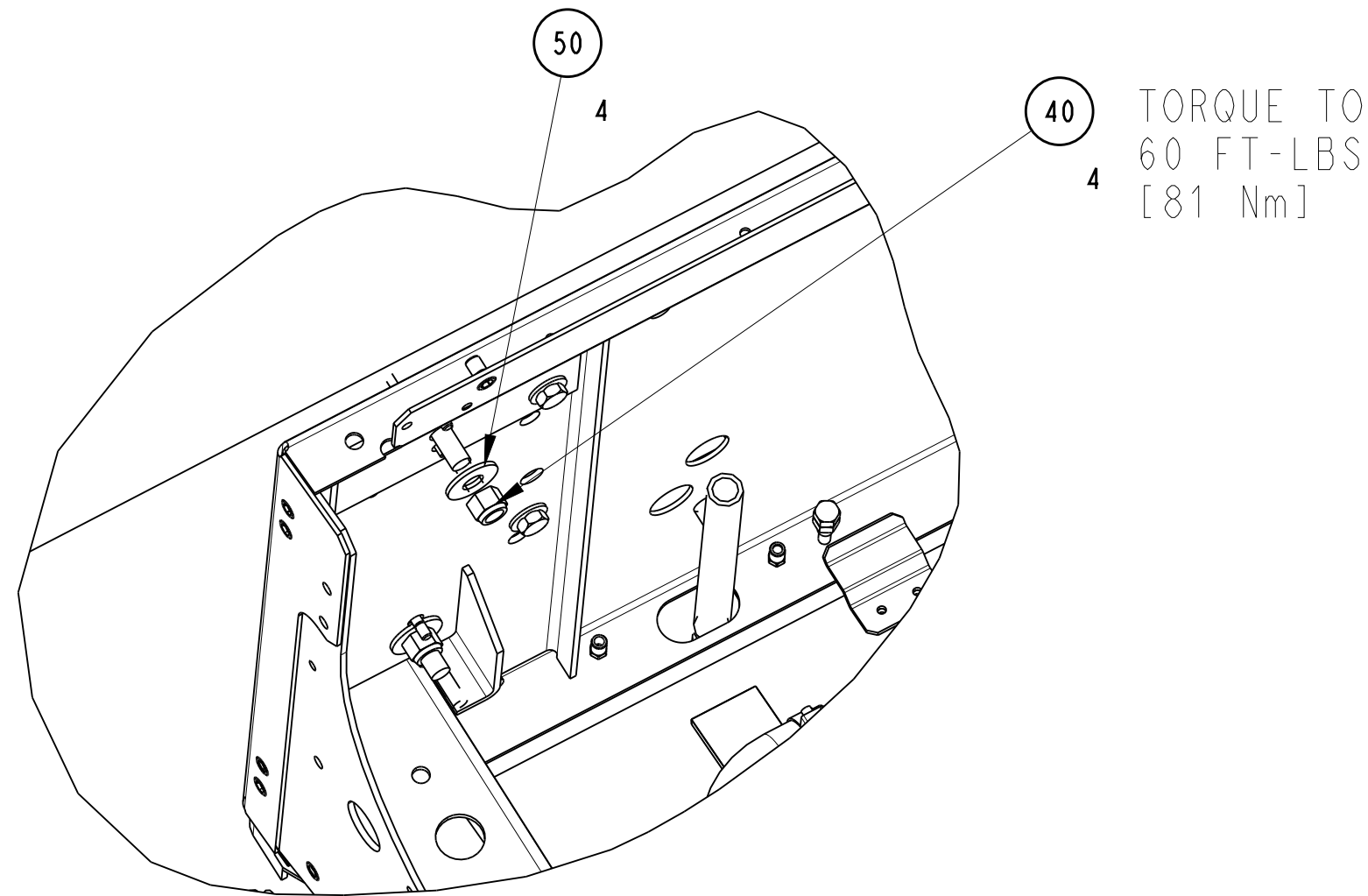
1 INSTALL UNIT

WARNING: MAKE A CLOSE-UP INSPECTION OF THE CONDITION AND INTEGRITY OF THE UNIT FRAME NEAR THE LIFTING EYES. HOOK LIFTING APPARATUS (LIFTING SPREADER BAR WITH SUFFICIENT CAPACITY TO SUPPORT UNIT) THROUGH THE LIFTING EYES. HOOKS OR CLEVISSES SHOULD BE EQUIPPED WITH A LOCKING FEATURE. LIFT POINT SHOULD BE CENTERED OVER THE UNIT'S CENTER OF GRAVITY (SEE SHEET 3). WHILE LIFTING THE UNIT INTO PLACE, INSTALLER SHOULD NOT BE UNDER OR IN PROXIMITY OF THE SUSPENDED UNIT.



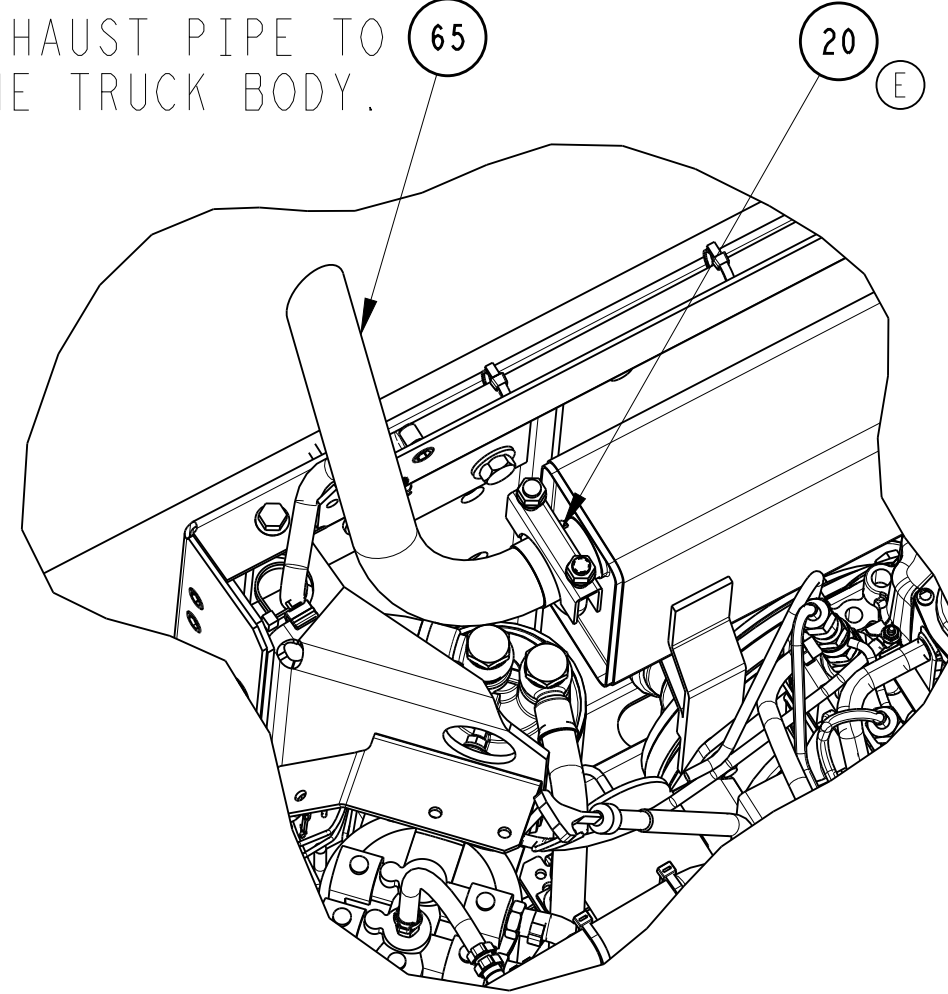
BODY PREPARATION AND UNIT INSTALLATION

2 INSTALL UNIT MOUNTING HARDWARE

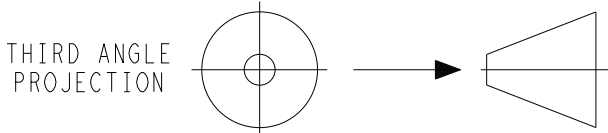


3 INSTALL MUFFLER PIPE EXTENSION

DO NOT ALLOW THE EXHAUST PIPE TO
TOUCH THE TRUCK BODY.



E	ADDED "WARNING" NOTE & REPLACED IT.20.	06 AUG 2019	LT-RP	RC		72N0242P19
D	CALLOUT: FOR FUEL LINE ROUTING,SEE SHT's 14 & 15 WAS ...12 & 13	15 MAR 2017	MGC			71N0218P17
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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

TITLE
INSTALLATION INSTRUCTION

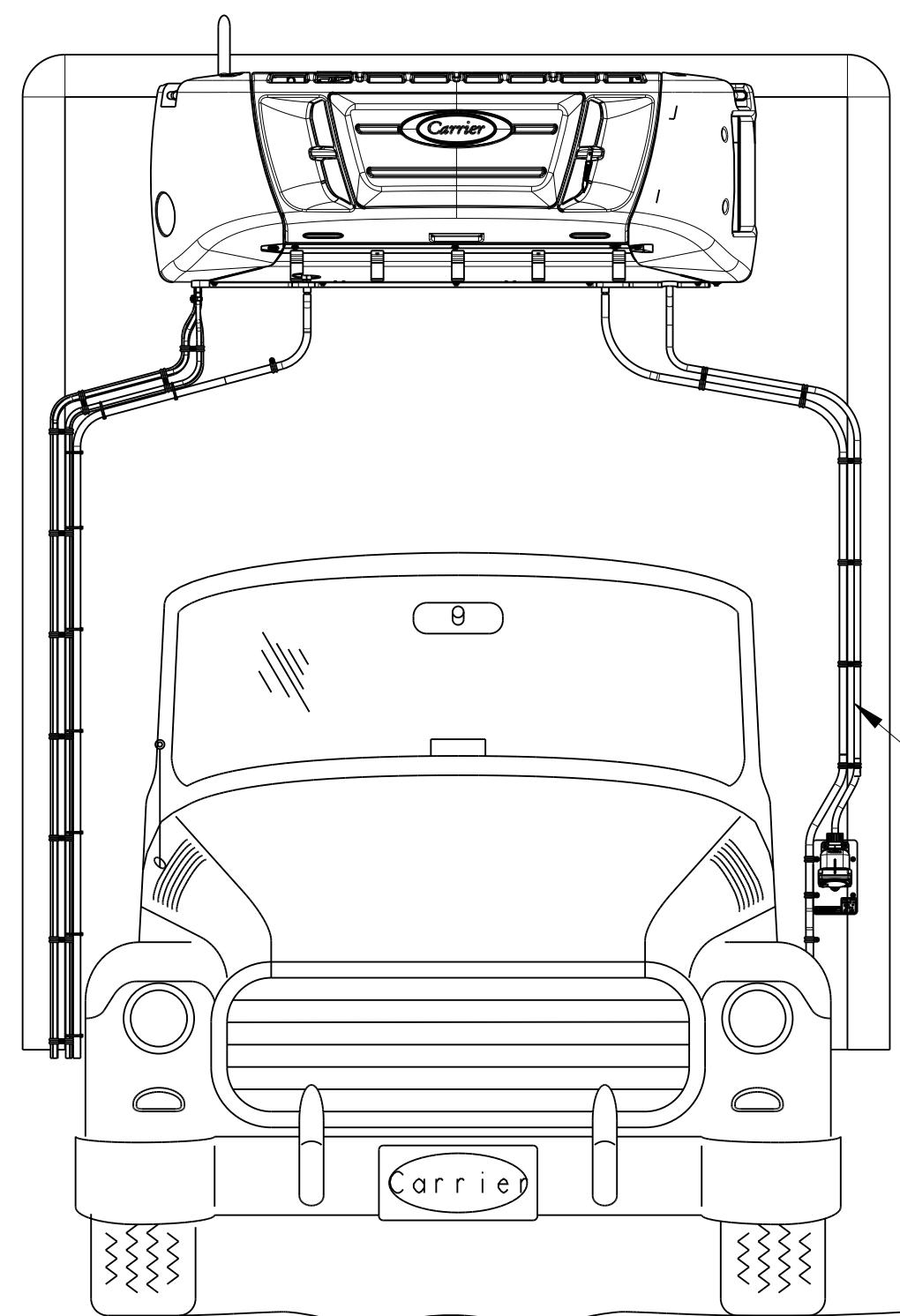
DRAWING NO.
98-03352
SHEET 8 OF
REV
E

SUPERSEDES:

PART CLASSIFICATION: US EAR99

CAB COMMAND INSTALLATION

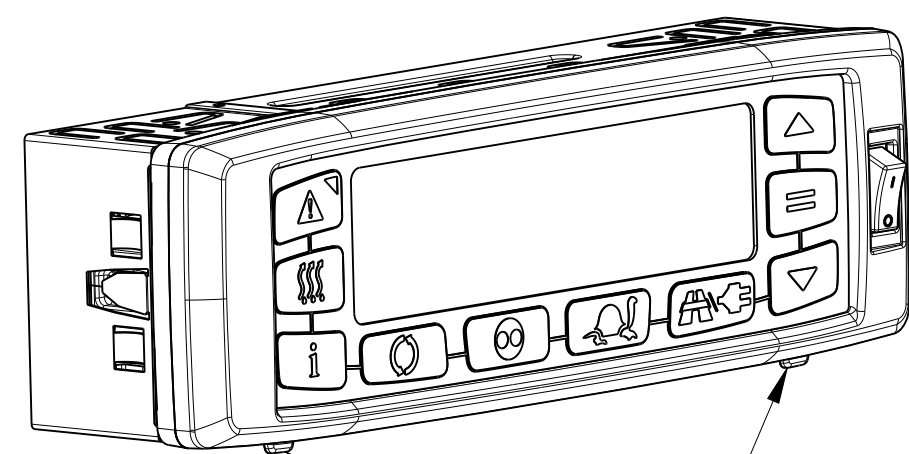
- 1.0 DETERMINE THE DESIRED MOUNTING LOCATION OF THE CAB COMMAND INSIDE THE CAB OF THE TRUCK. THE CAB COMMAND CAN EITHER BE MOUNTED DIRECTLY INTO THE DASH IN A "DIN" LOCATION OR IN PLACES SUCH AS THE OVERHEAD CONSOLE, UNDER THE DASH, ETC. BY USING THE SUPPLIED INSTALLATION BRACKET KIT (ITEM 83).



NOTE: THE CAB COMMAND IS NOT WATERPROOF, AND SHOULD BE IN A MOISTURE FREE ENVIRONMENT.

- 2.0 ROUTE THE GREY CAB COMMAND CABLE FROM THE CONTROL BOX TO THE INSIDE OF THE CAB.
- 3.0 WHEN ROUTING THE CONNECTOR INTO THE TRUCK BODY MAKE CERTAIN NOT TO DAMAGE THE CONNECTOR OR CABLE. MOST TRUCKS WILL ALREADY HAVE A PASS-THRU LOCATION WITH A GROMMET THAT THE CABLE CAN BE FED THROUGH. REFERENCE 5.0 ON SHEET 1 FOR CABLE ROUTING.

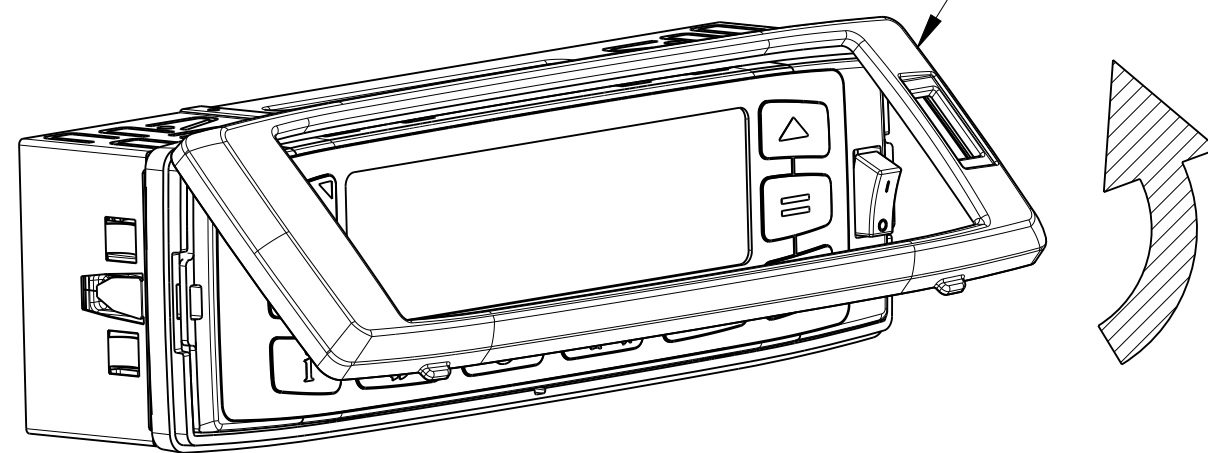
ROUTE THE CAB COMMAND CABLE WITH THE ROAD-SIDE DRAIN TUBE AND STANDBY CABLE. SEE 2.0 AND SHEET 12.



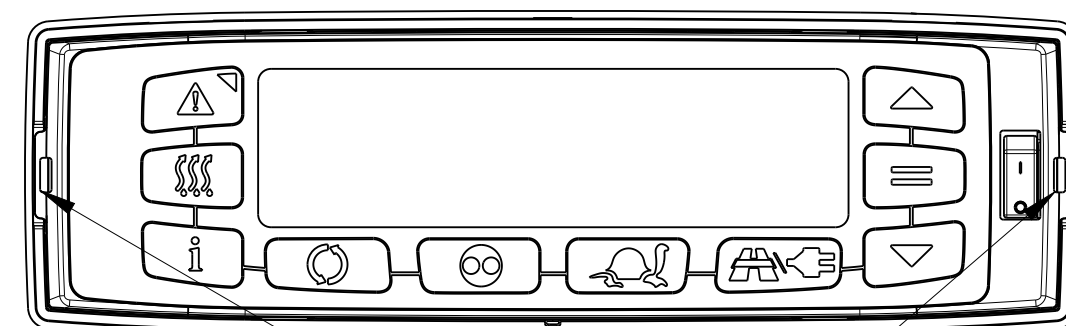
- 4.0 REMOVE THE FRONT COVER OF THE CAB COMMAND BY PULLING OUTWARD ON THE TWO LOWER TABS. ROTATE THE COVER UP TO REMOVE. RETAIN THE COVER FOR LATTER RE-ASSEMBLY.

LOWER TAB LOCATION

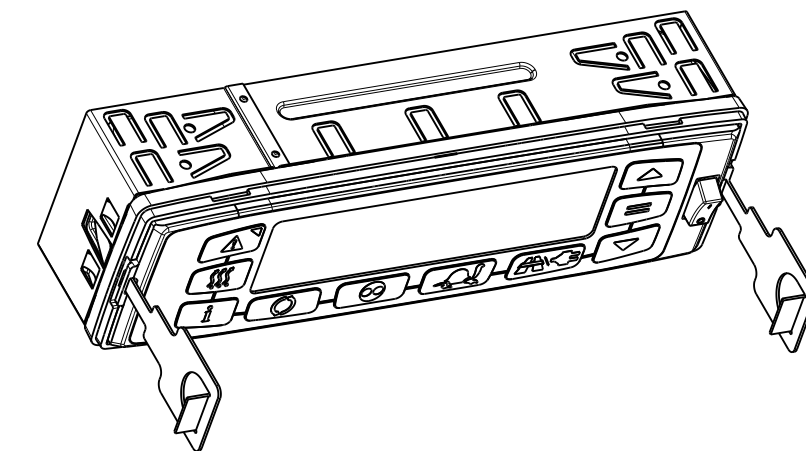
FRONT COVER (REF)



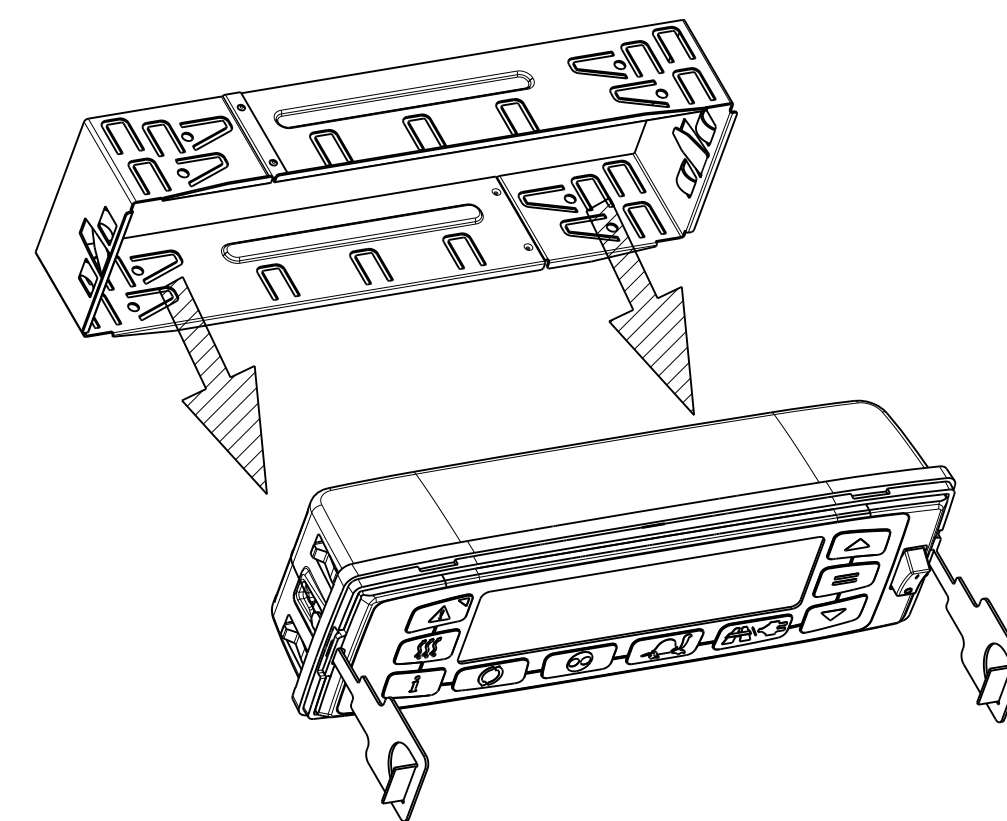
- 5.0 INSERT ONE KEY IN SLOTS LOCATED ON EACH SIDE OF THE ASSEMBLY TO UNLOCK THE CAB COMMAND MODULE FROM THE "DIN" MOUNTING BRACKET.



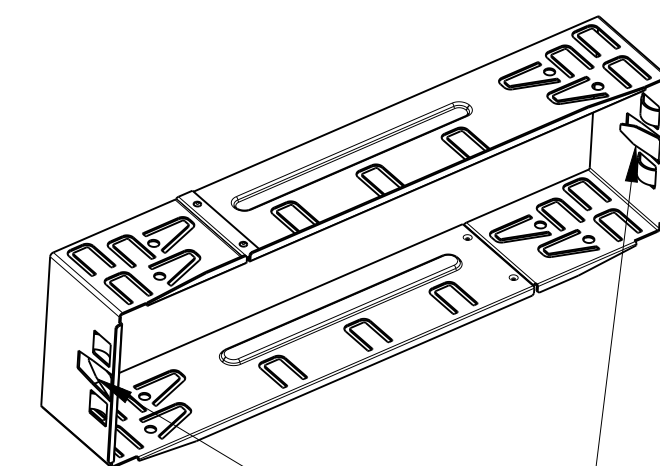
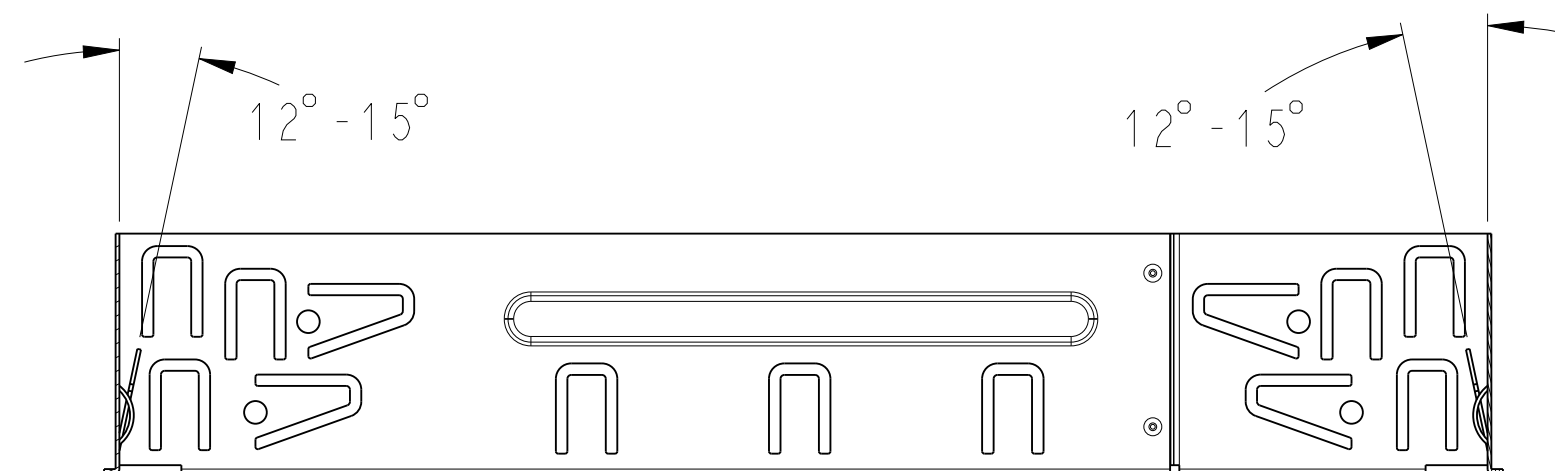
INSERT KEYS HERE



- 6.0 USE EVEN PRESSURE TO REMOVE MODULE FROM THE BRACKET.



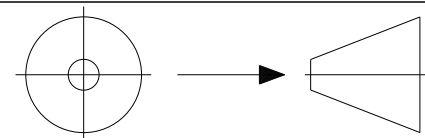
- 7.0 THIS STEP IS ONLY REQUIRED FOR MOUNTING THE MODULE IN A "DIN" LOCATION. IF USING OPTIONAL MOUNTING, SKIP TO STEP 13 ON SHEET 10. MAKE SURE THE LOCKING TABS ON BOTH SIDES OF THE "DIN" MOUNTING BRACKET ARE BENT INWARD 12 TO 15 DEGREES.



LOCKING TABS

D	REV'D CAB COMMAND INSTALL PROCEDURE; ADDED STEPS 4.0 THRU 9.0; SEE NEXT SHEET	15 MAR 2017	MGC			71N0218P17
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.

THIRD ANGLE
PROJECTION



IMPERIAL INCH FORMAT:
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES WITH
METRIC CONVERSIONS IN (MILLIMETERS)

TITLE

INSTALLATION INSTRUCTION

DRAWING NO.

98-03352

REV

D

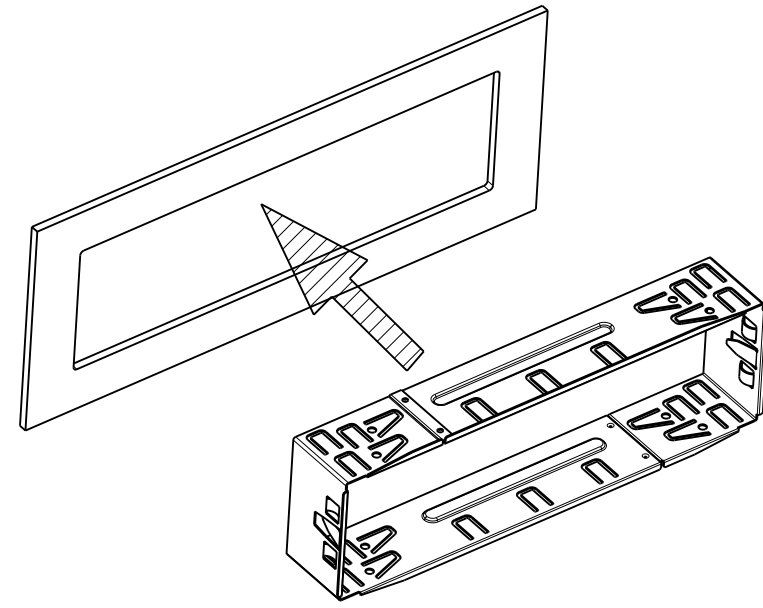
SHEET 9 OF

SUPERSEDES: _____

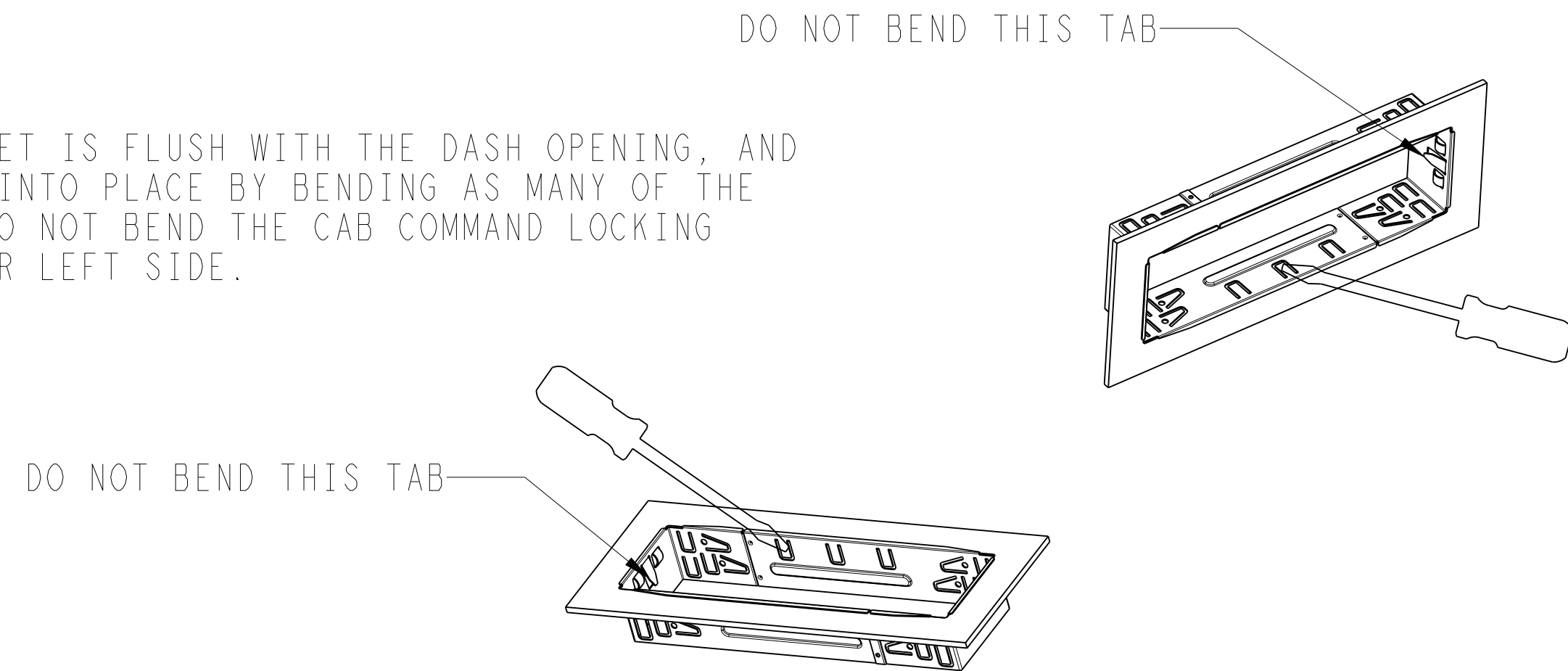
PART CLASSIFICATION: US EAR 99

"DIN" MOUNT

8.0 INSERT THE "DIN" MOUNTING BRACKET INTO THE DASH OPENING.



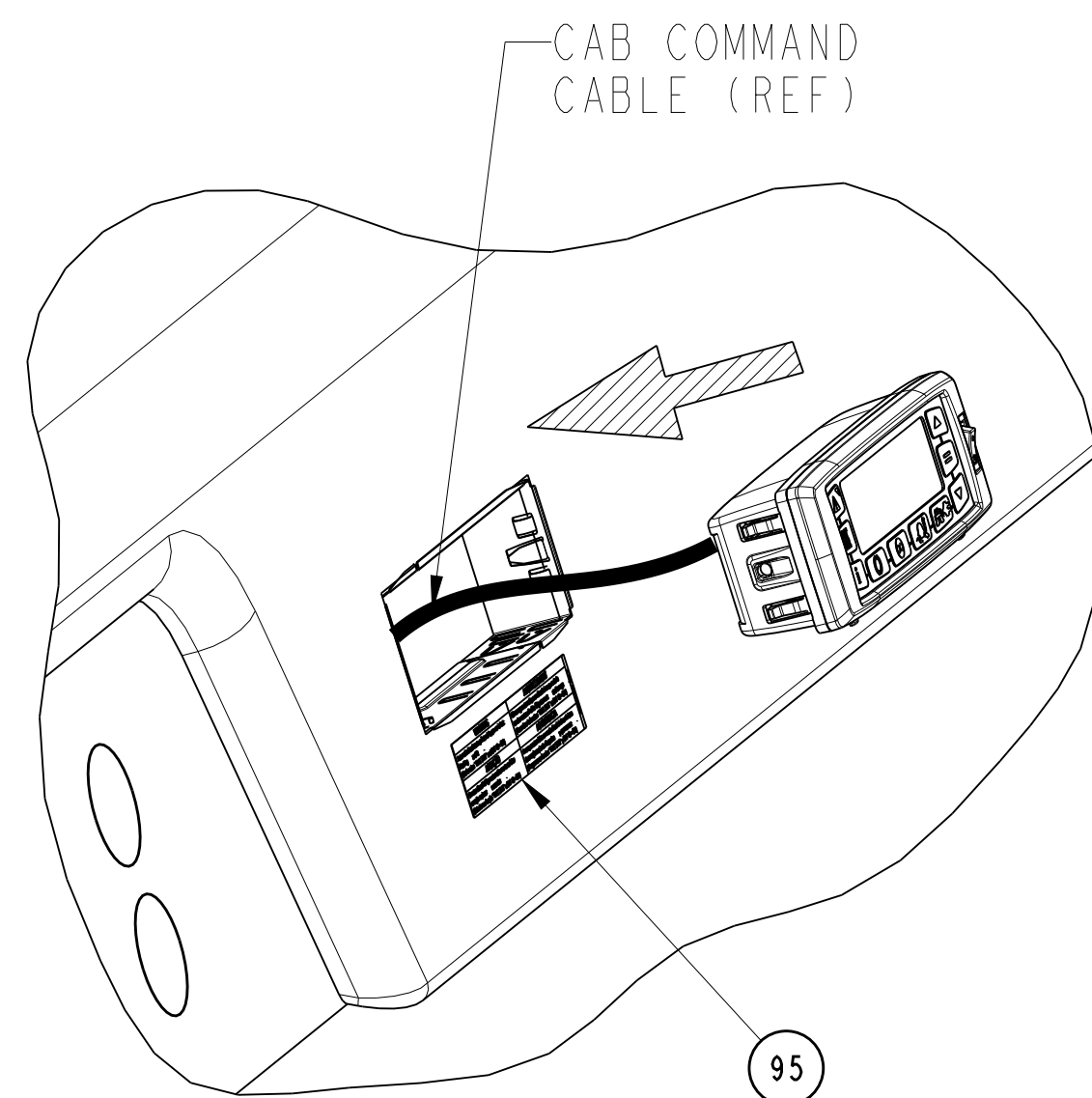
9.0 MAKE SURE THE BRACKET IS FLUSH WITH THE DASH OPENING, AND SECURE THE BRACKET INTO PLACE BY BENDING AS MANY OF THE TABS AS POSSIBLE. DO NOT BEND THE CAB COMMAND LOCKING TABS ON THE RIGHT OR LEFT SIDE.



10.0 ROUTE THE CABLE UNDERNEATH THE DASH AND THROUGH THE "DIN" OPENING.

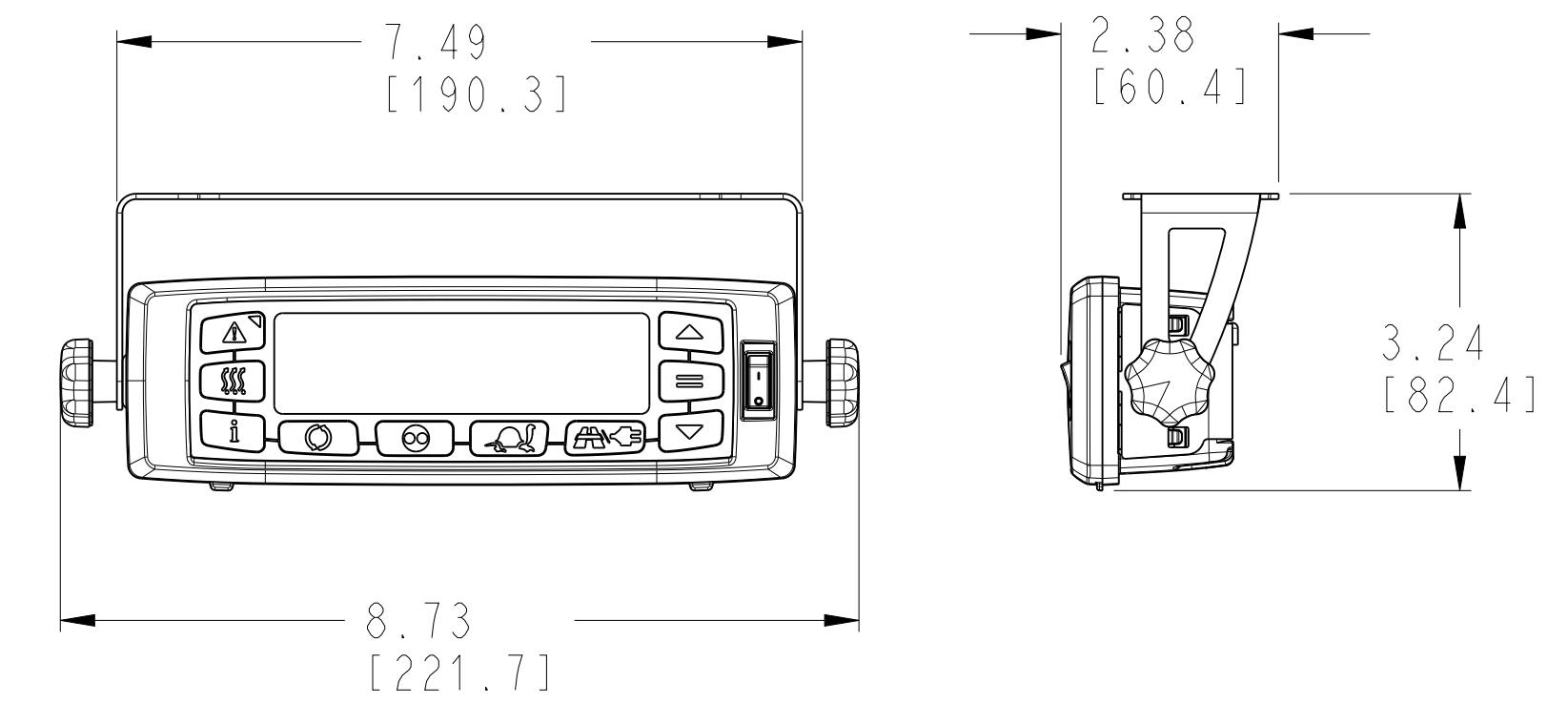
11.0 PLUG THE CAB COMMAND CABLE INTO THE BACK OF THE CAB COMMAND AND INSERT THE CAB COMMAND INTO THE "DIN" BRACKET. MAKE CERTAIN THE CAB COMMAND LOCKS INTO PLACE. STORE THE REMOVAL KEYS IN A SECURE LOCATION IN CASE FUTURE REMOVAL IS NECESSARY.

12.0 RE-INSTALL CAB COMMAND FACE PLATE. PLACE THE DECAL (ITEM 95) IN A LOCATION NEAR THE CAB COMMAND.

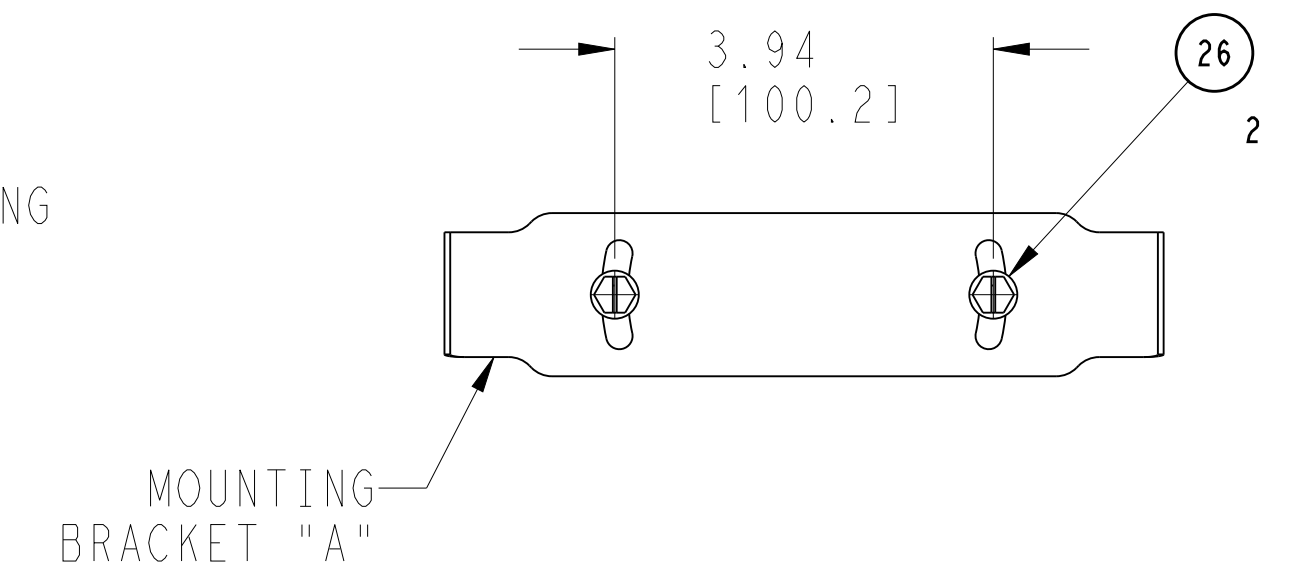


OPTIONAL MOUNTING

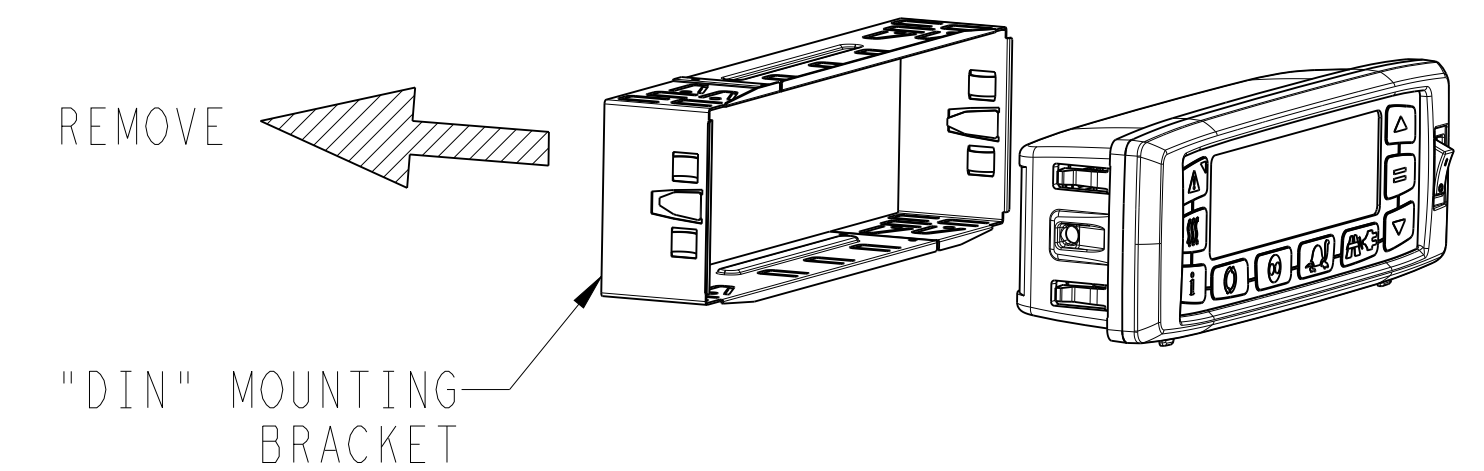
13.0 WHEN CHOOSING AN ALTERNATE MOUNTING LOCATION, MAKE CERTAIN THE CABLE IS ROUTED IN A MANNER THAT PROTECTS THE CABLE FROM DAMAGE. MAKE CERTAIN THE CAB COMMAND WILL BE IN AN ACCESSABLE LOCATION AND THE LOCATION DOES NOT ALLOW THE SWITCH TO BE ACCIDENTALLY TURNED OFF.



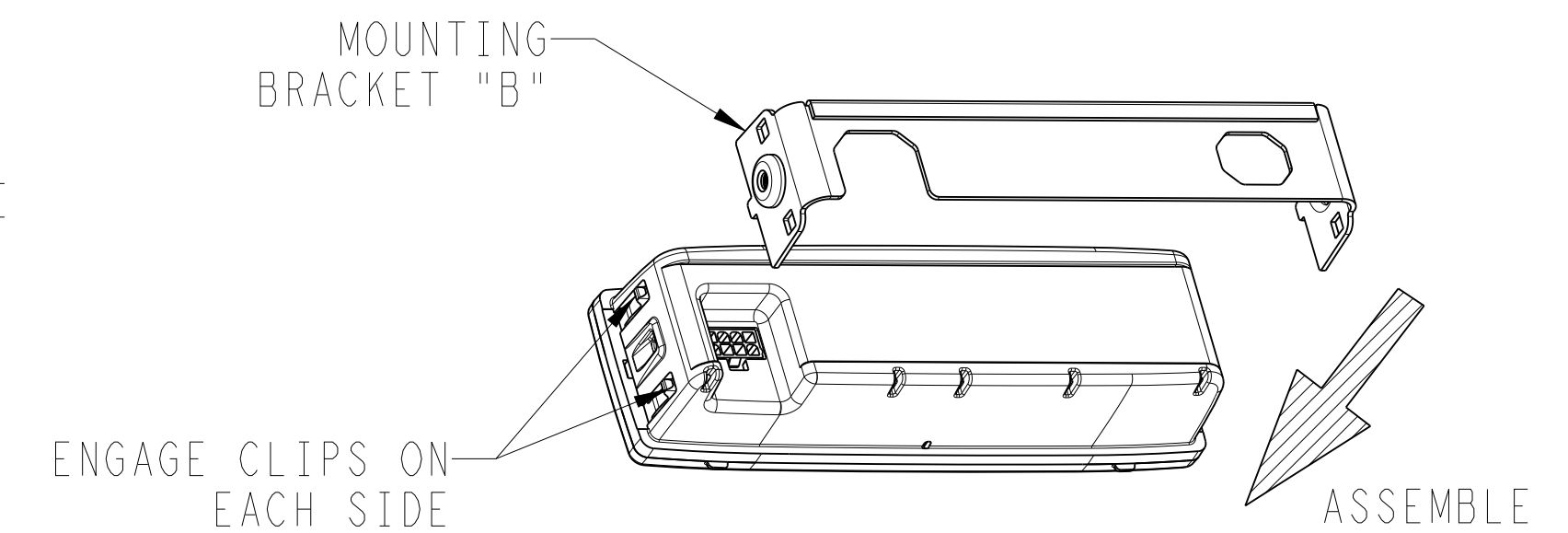
14.0 INSTALL MOUNTING BRACKET "A" WITH SELF TAPPING SCREWS (ITEM 26) OR WITH SELF SUPPLIED LOOSE HARDWARE. MAKE CERTAIN THE HARDWARE WILL NOT CHAFFE, CUT THROUGH OR NICK ANY WIRING.



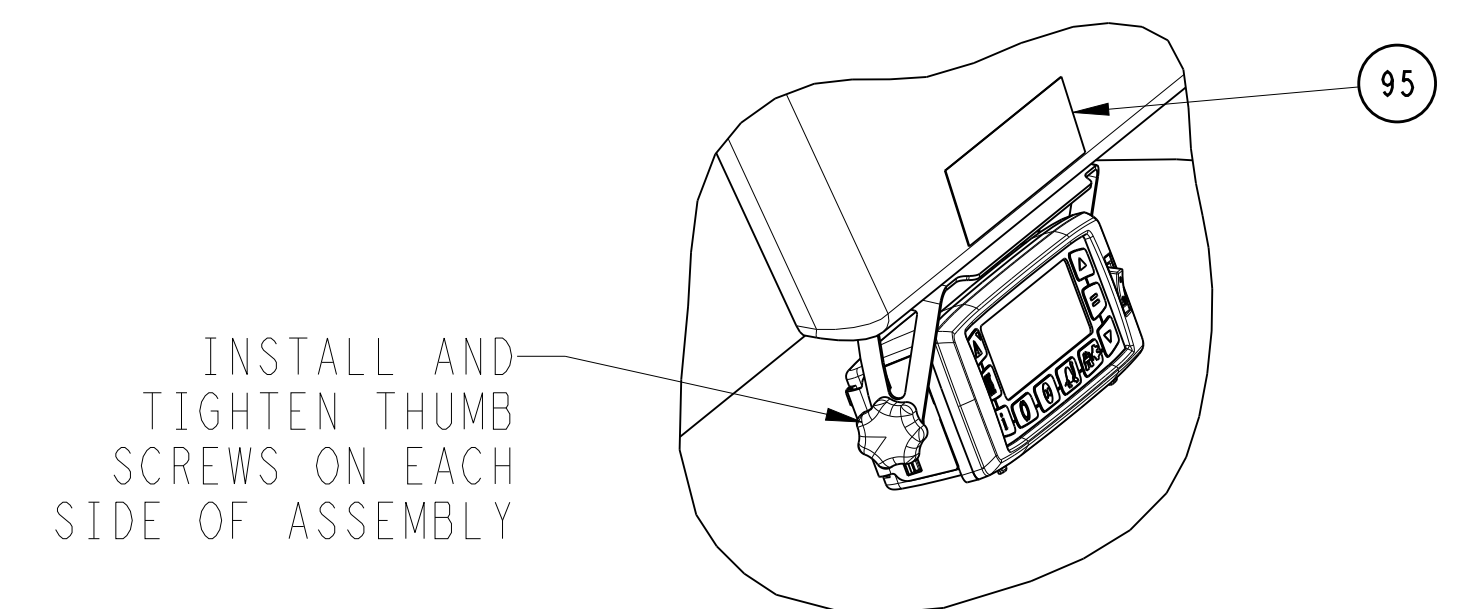
15.0 REMOVE THE "DIN" MOUNTING BRACKET FROM THE CAB COMMAND MODULE. REFER TO STEPS 4.0 THRU 6.0 ON SHT.9



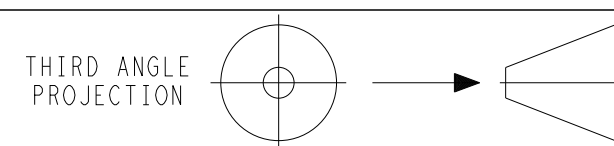
16.0 ASSEMBLE MOUNTING BRACKET "B" TO THE BACK SIDE OF THE MODULE AS SHOWN. MAKE CERTAIN THE TWO CLIPS ON EACH END OF THE MODULE ARE ENGAGED INTO THE BRACKET.



17.0 PLUG THE CAB COMMAND CABLE INTO THE BACK OF THE MODULE, AND MAKE THE FINAL ASSEMBLY AS SHOWN. RE-INSTALL CAB COMMAND FACE PLATE. PLACE THE DECAL (ITEM 95) IN A LOCATION NEAR THE CAB COMMAND.

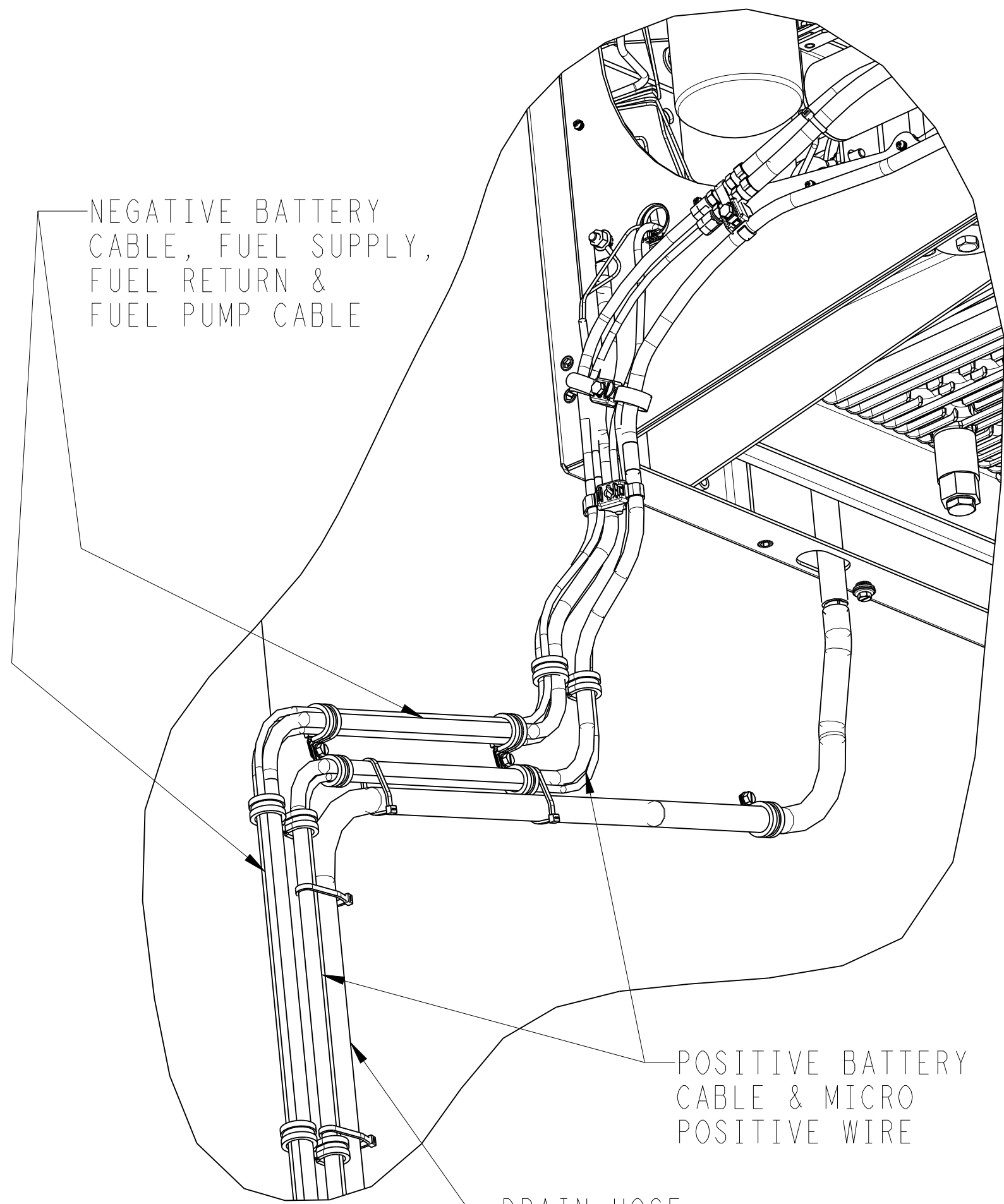


D	ADDED THIS SHT.; CAB COMMAND INFO. WAS ON SHT.9; ADDED 4.0 THRU 9.0 (SEE PREV. SHT); RENUMBERED STEPS: 10.0 THRU 17.0 WAS 4.0 THRU 11.0	15 MAR 2017	MGC			71N0218P17
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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

TITLE	INSTALLATION INSTRUCTION	DRAWING NO.	98-03352	REV	D
SUPERSEDES:		PART CLASSIFICATION: US EAR99		SHEET 10 OF	



- SEE SHEETS 14 & 15 FOR FUEL LINE ROUTINGS
- SEE SHEET 17 FOR BATTERY CONNECTIONS

MAINTAIN
4.00 MIN.
[101.6]
STRAIGHT LENGTH
FROM THE EDGE
OF THE UNIT FRAME

8.00 MIN.
[203.2]

12.00
[304.8]

31

62

26 27

INSTALL ITEM 26,
SELF-TAPPING SCREWS
INTO FRAME MEMBER
OF BODY. SEE NOTE 1.0

31

FOR CLAMP LOCATIONS THAT
DO NOT FALL OVER A FRAME
MEMBER OF THE BODY,
REFER TO NOTES 1.0 AND 2.0

66

EVAPORATOR DRAIN TUBE (IT.66):
ROUTE WITH A DOWNWARDS SLOPE &
SECURE DRAIN TUBE AS SHOWN.
CUT TO LENGTH AS REQUIRED.

56

NOTE:

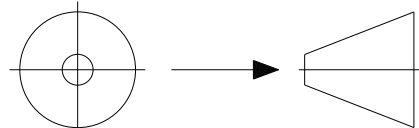
1.0 SELF TAPPING SCREWS (ITEM 26) MUST BE INSTALLED
INTO A STRUCTURAL FRAME MEMBER OF THE REFRIGERATION
BODY. IF A STRUCTURAL MEMBER IS NOT LOCATED UNDERNEATH
THE OUTER TRUCK SKIN, USE SUPPLIED RIVET (ITEM 43).

2.0 IF USING RIVETS (ITEM 43), LOCATE THE DESIRED POSITION
OF THE CLAMP(S) AND DRILL HOLE(S) USING A 3/16"
DIAMETER DRILL BIT.

FUEL LINES, BATTERY & CURBSIDE DRAIN TUBE

D	RENUMBERED SHT:11 WAS 10	15 MAR 2017	MGC			71N0218P17
B	CALLOUT BALLOON IT. 27 WAS 35	10 MAY 2016	MGC			71N0219P16
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.

THIRD ANGLE
PROJECTION



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

TITLE

INSTALLATION INSTRUCTION

SUPERSEDES: _____

DRAWING NO.

98-03352

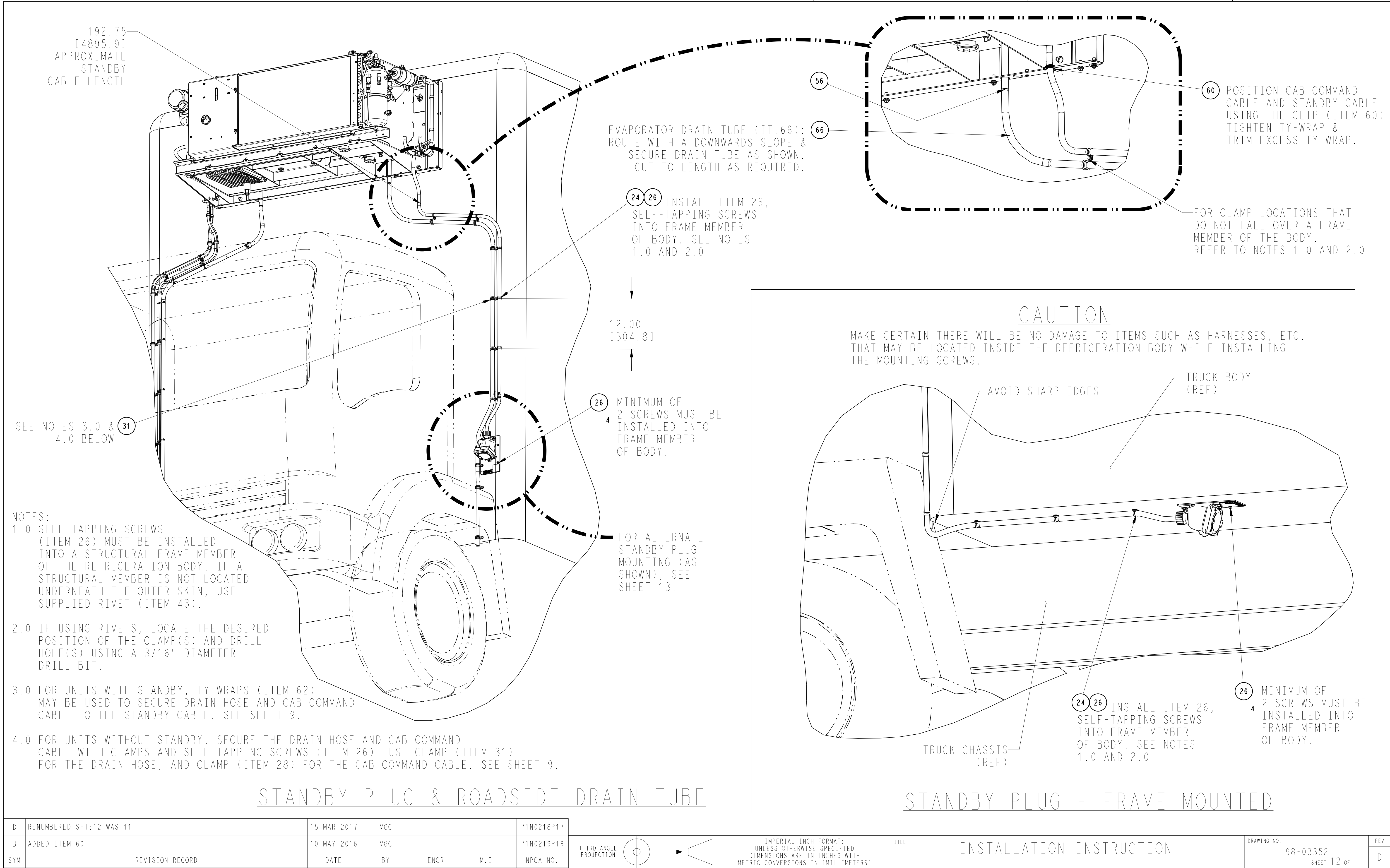
SHEET 11 OF

REV

D

PART CLASSIFICATION: US_EAR99

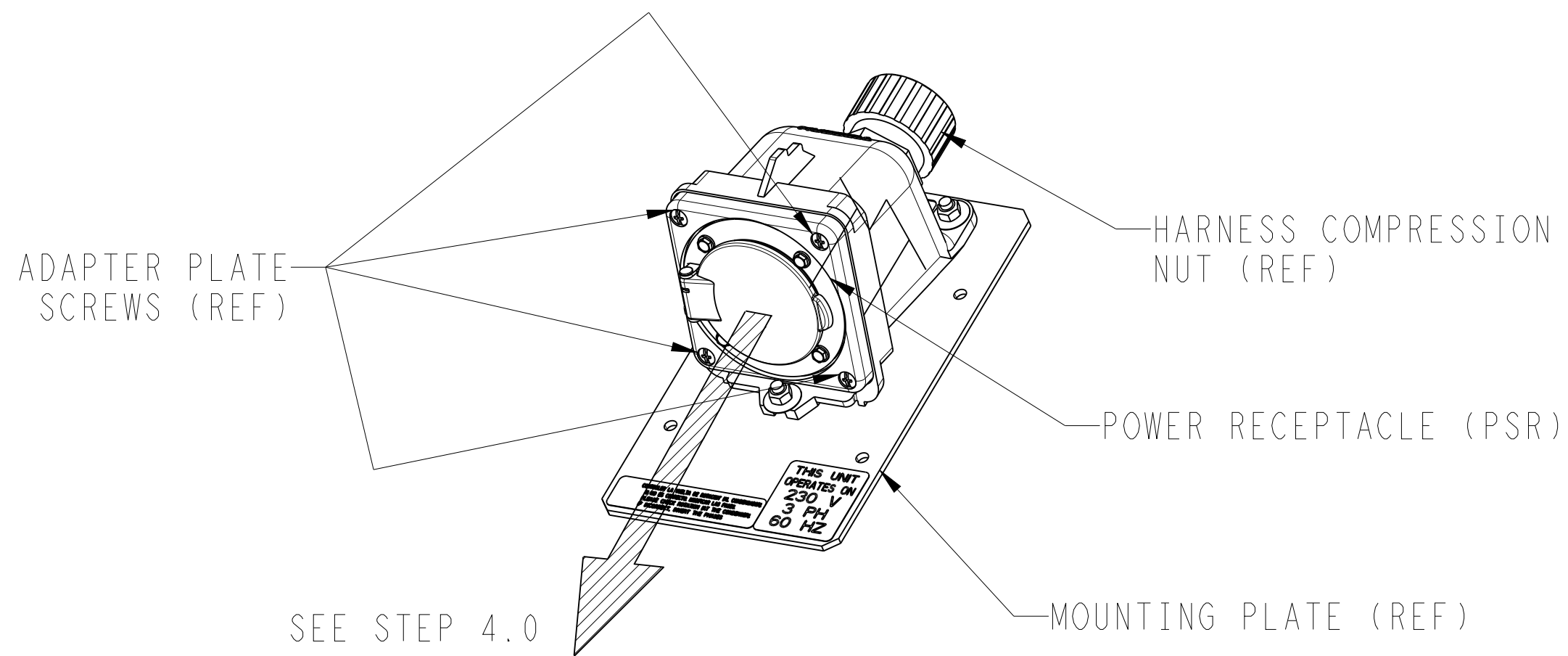
DRAWING CLASSIFICATION: US_EAR99



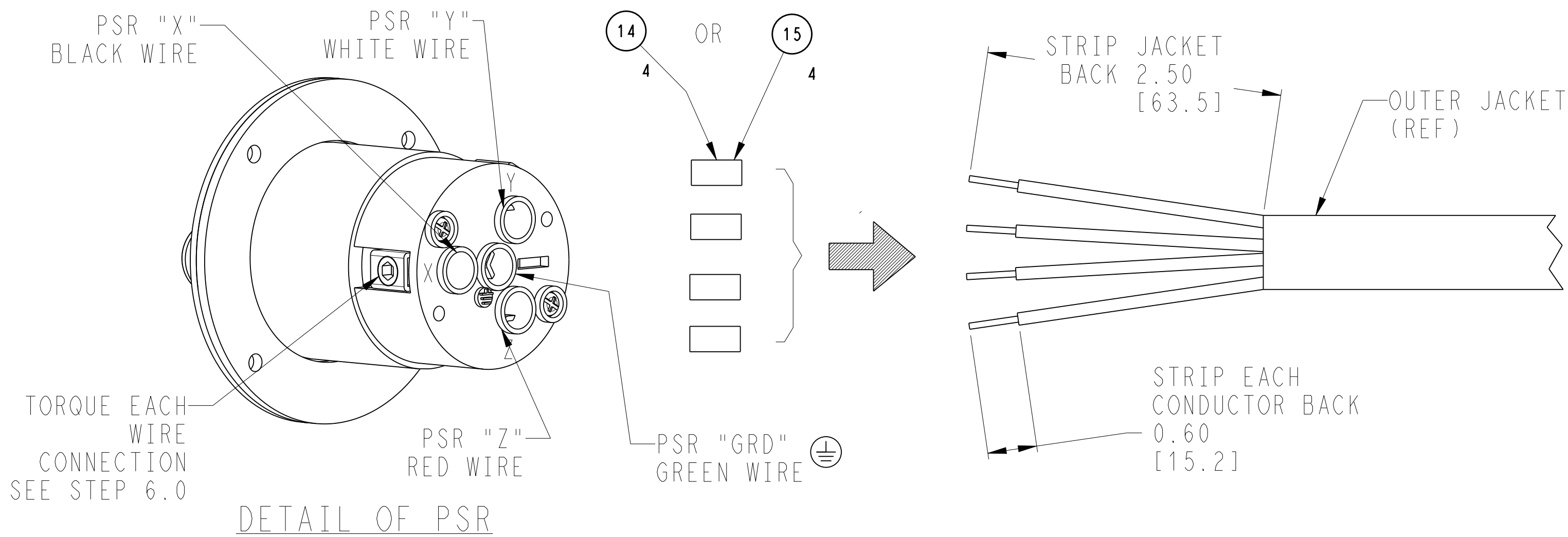
INSTRUCTIONS FOR SHORTENING OF STANDBY CABLE IF REQUIRED

FOR ALTERNATE STANDBY PLUG MOUNTING LOCATIONS WHERE EXCESS AMOUNTS OF CABLE EXIST, THE FOLLOWING PROCEDURES SHOULD BE FOLLOWED IF SHORTENING OF THE CABLE IS REQUIRED. FOLLOW ALL LOCAL AND NATIONAL WIRING CODES AND ORDINANCES.

- 1.0 MAKE CERTAIN THE UNIT HAS NO ELECTRICAL POWER ATTACHED (AC OR DC), AND THE UNIT IS DISABLED. APPLY LOCK OUT / TAG OUT PROCEDURE.
- 2.0 DETERMINE THE DESIRED MOUNTING LOCATION OF THE STANDBY PLUG BOX. VERIFY THAT THE POSITION WILL NOT INTERFERE WITH THE TRUCK DOOR OPENING, AND THE SHORE POWER CAN BE CONNECTED TO THE PLUG ONCE THE BOX IS MOUNTED. THE POSITION SHOULD BE IN A SAFE, ACCESSIBLE AND SECURE LOCATION. MAKE CERTAIN AT LEAST TWO OF THE MOUNTING SCREWS USED TO SECURE THE STANDBY PLATE TO THE TRUCK ARE ASSEMBLED INTO A STRUCTURAL FRAME MEMBER OF THE REFRIGERATION BODY.
- 3.0 LOOSEN THE HARNESS COMPRESSION NUT, AND REMOVE THE 4 ADAPTER PLATE SCREWS (SEE DIAGRAM BELOW).
- 4.0 PUSH THE PLUG ASSEMBLY (PSR) OUT OF THE HOUSING AND DISCONNECT THE FOUR WIRES FROM THE RECEPTACLE.

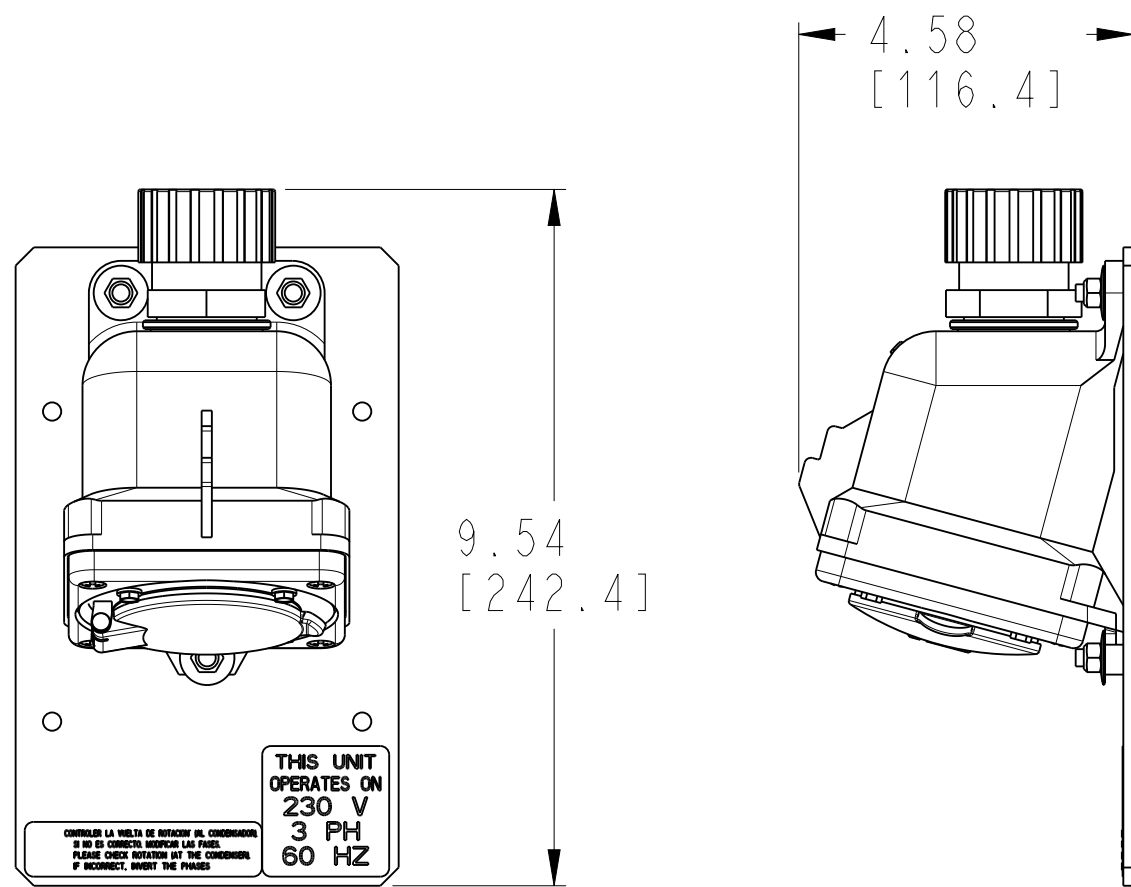
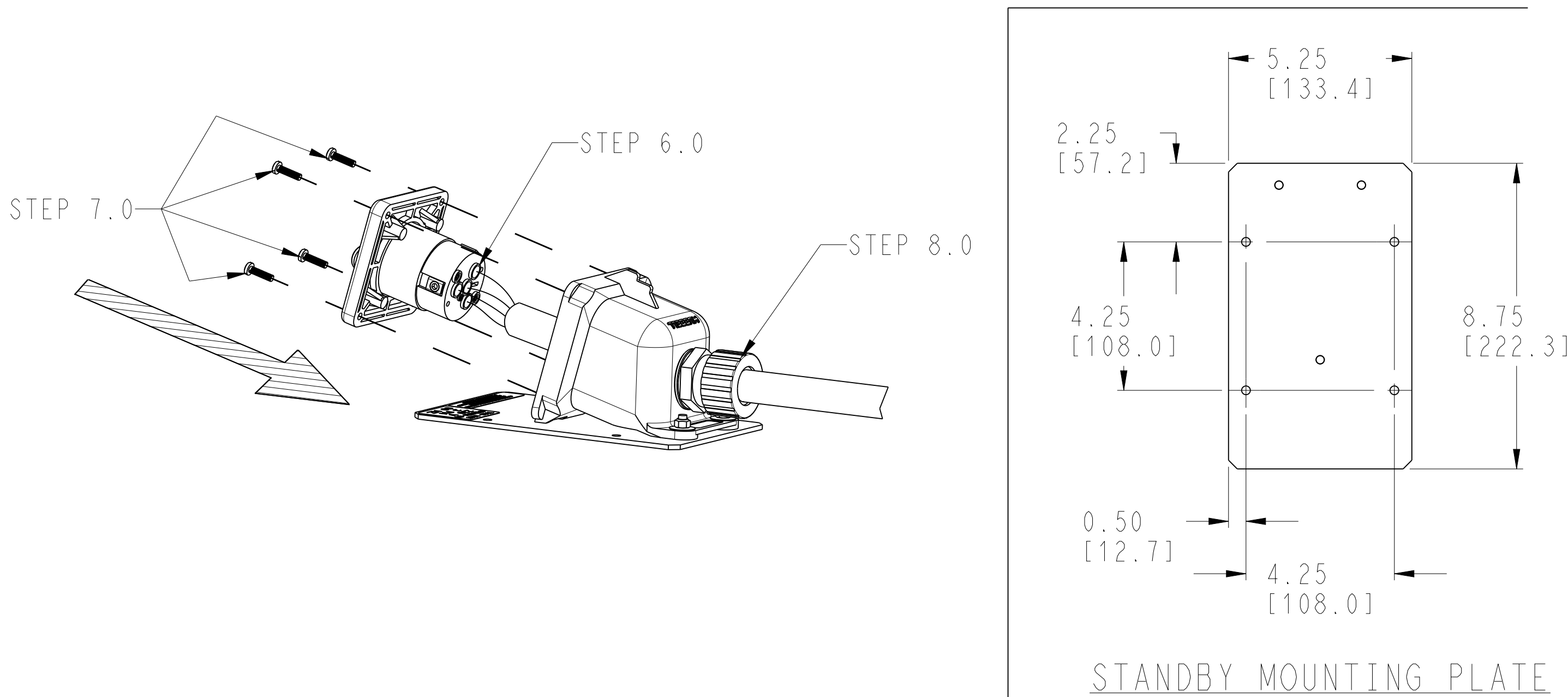


- 5.0 CUT THE CABLE TO THE DESIRED LEGNTH. PREPARE THE WIRE ENDS FOR RE-ASSEMBLY (SEE "DETAIL OF PSR". CRIMP THE APPROPRIATELY SIZED BUSHING ONTO EACH OF THE FOUR WIRES. TAKE CAUTION THERE ARE NO LOOSE OR STRAY WIRE STRANDS.
 - WHEN TRIMMING THE OUTER JACKET, DO NOT CUT THROUGH INTO THE WIRES.
 - WHEN STRIPPING EACH WIRE, DO NOT CUT THROUGH OR NICK INDIVIDUAL STRANDS OF WIRE.
 - DO NOT USE PRE-INSULATED TERMINALS

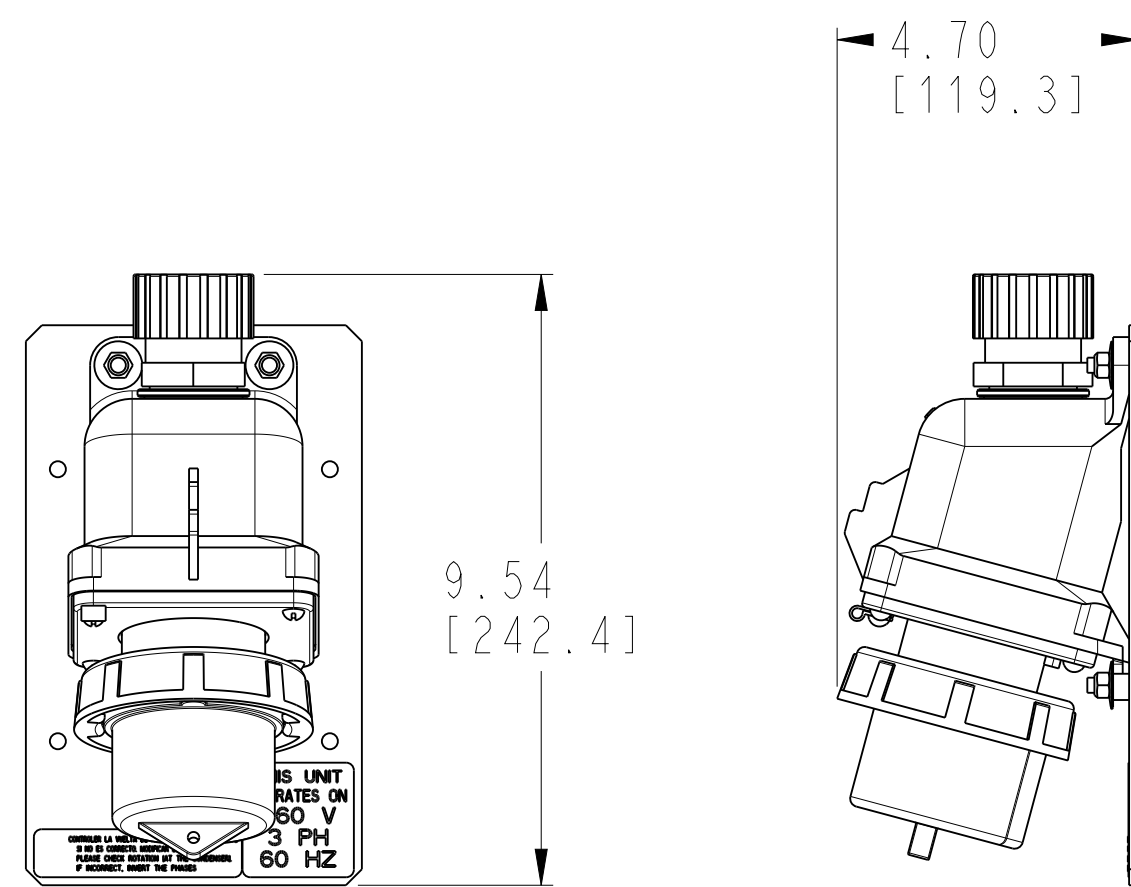


CONTINUED

- 6.0 RE-ASSEMBLE THE CABLE TO THE POWER RECEPTACLE BY FOLLOWING THE DIAGRAM SHOWN IN VIEW "DETAIL OF PSR". TORQUE POWER RECEPTACLE WIRE CONNECTIONS TO 35 in-lbs [1.1 Nm]
- 7.0 RE-ASSEMBLE THE ADAPTER PLATE TO THE STANDBY BOX WITH 4 SCREWS WHICH WERE REMOVED EARLIER. TORQUE PLATE MOUNTING SCREWS TO 20 INCH-LBS [2.3 Nm].
- 8.0 HAND TIGHTEN THE HARNESS COMPRESSION NUT THEN TIGHTEN AN ADDITIONAL 1/4 TURN USING A WRENCH TO INSURE A LIQUID TIGHT SEAL.
- 9.0 MOUNT THE COMPLETED ASSEMBLY IN THE DESIRED LOCATION. REFERENCE SHEET 12.



230V



460V

STANDBY POWER CORD SHORTENING & STANDBY RECEPTACLE PLATE DIMENSIONS

D	RENUMBERED SHT:13 WAS 12	15 MAR 2017	MGC			71N0218P17	THIRD ANGLE PROJECTION	IMPERIAL INCH FORMAT: UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES WITH METRIC CONVERSIONS IN [MILLIMETERS]	TITLE	INSTALLATION INSTRUCTION	DRAWING NO.	98-03352 SHEET 13 of	REV	D
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.								

1. FUEL PICK-UP TUBE INSTALLATION

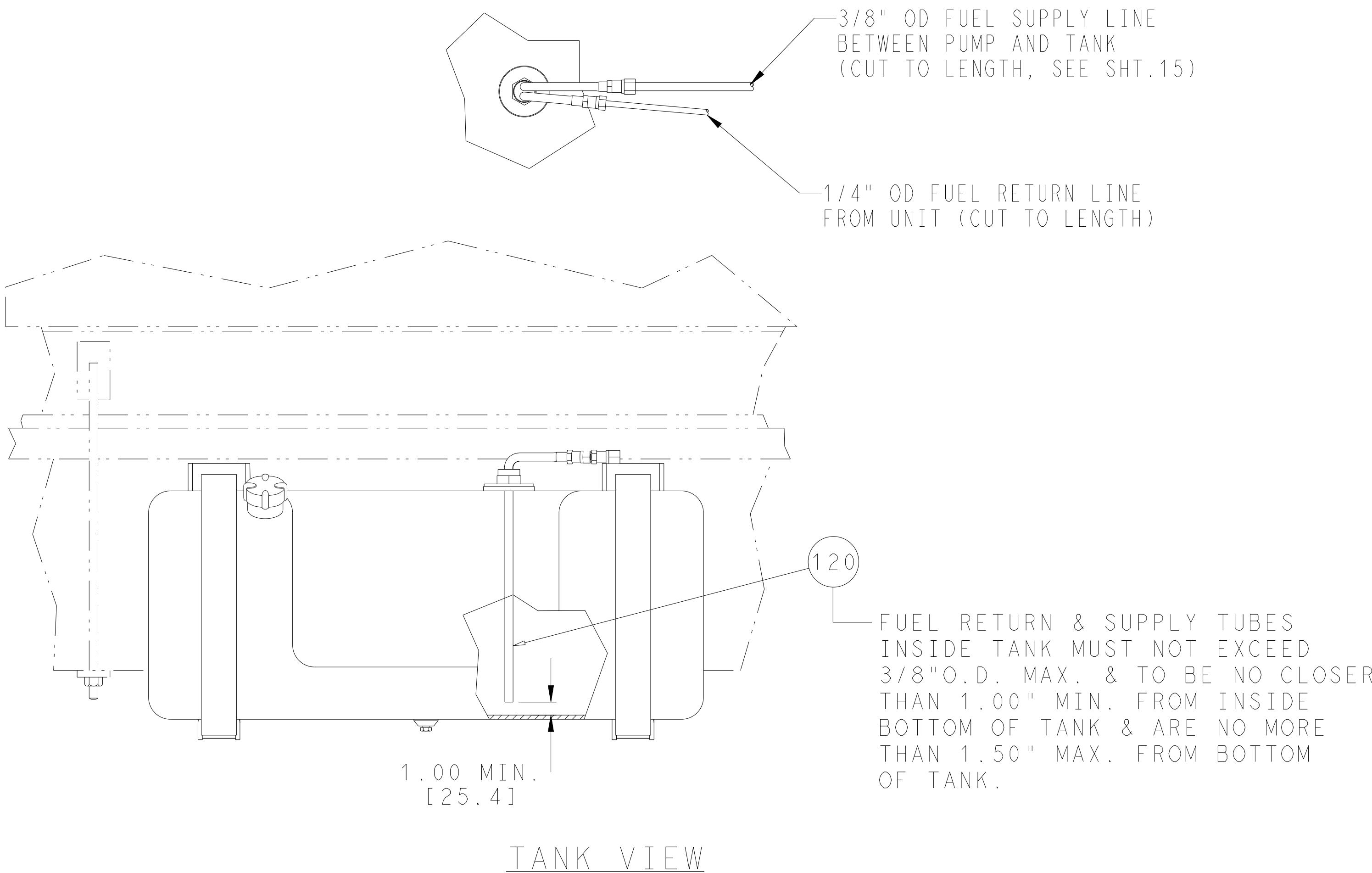
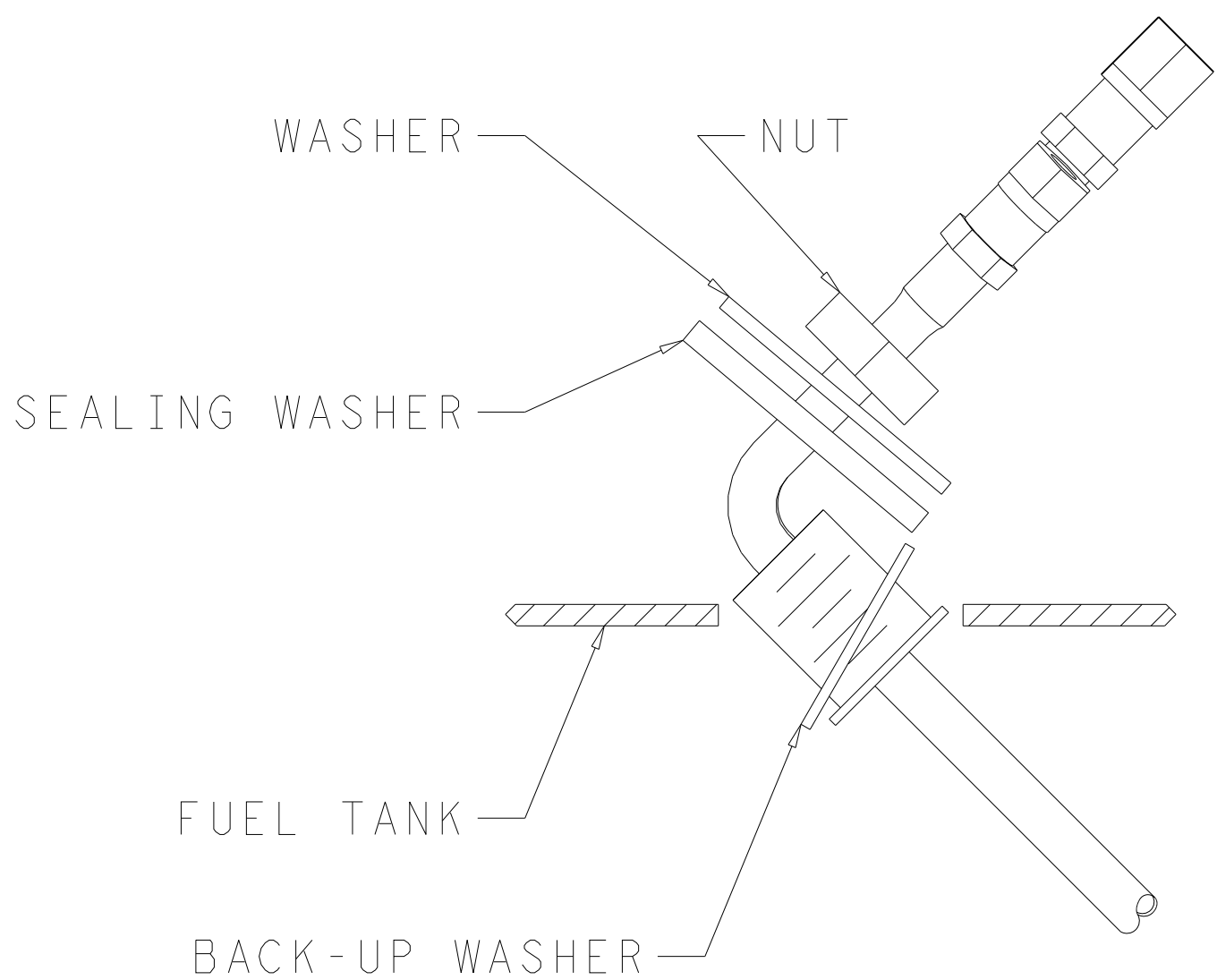
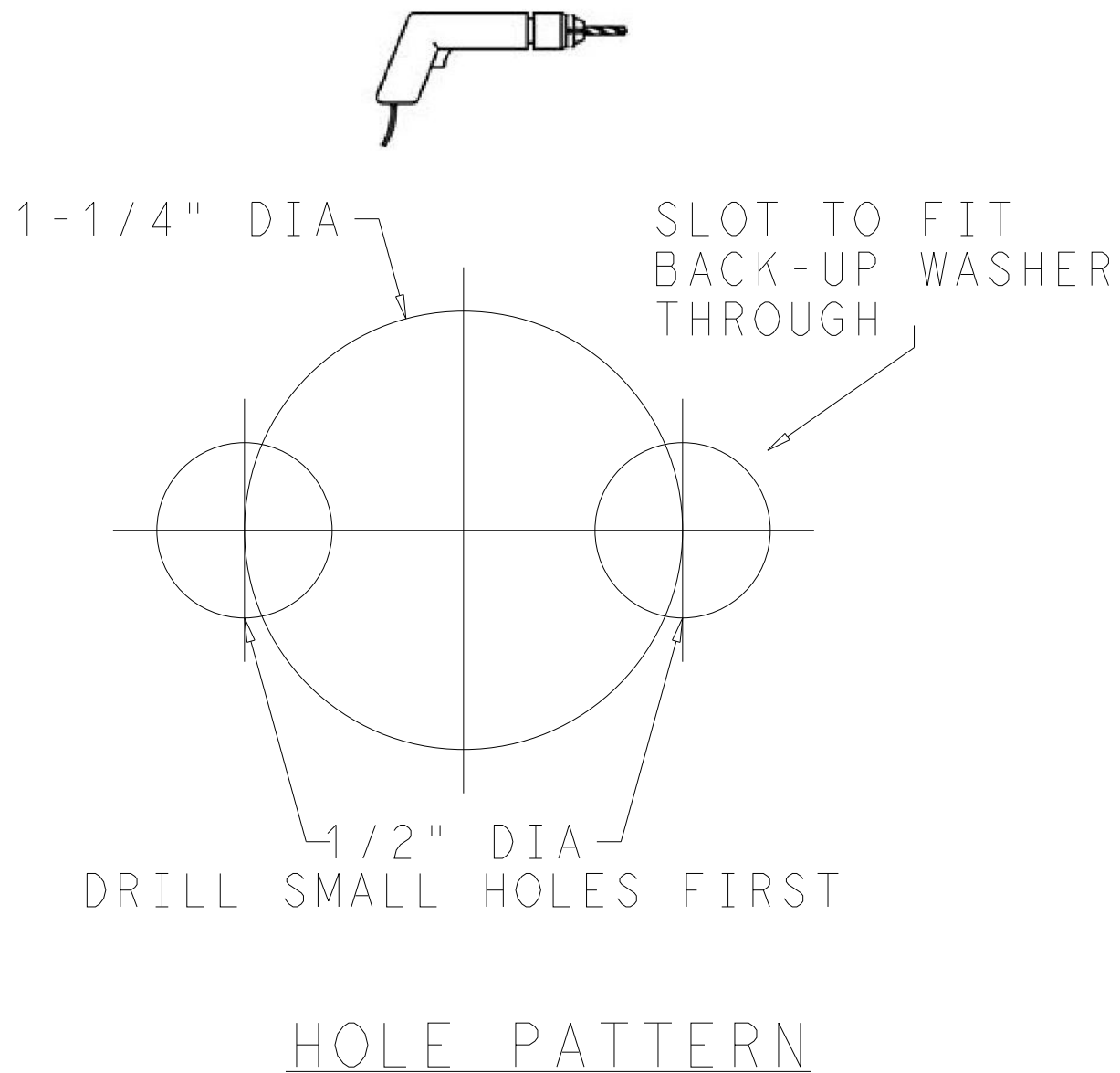
- A. DETERMINE THE DESIRED LOCATION FOR THE PICK-UP TUBES ON THE FUEL TANK. MAKE CERTAIN THAT THE LOCATION ADHERES TO THE FOLLOWING:
- LOCATION WILL ALLOW FOR THE FUEL LINE CONNECTIONS.
 - LOCATION DOES NOT INTERFERE WITH ANY OTHER CONNECTION(S), APPARATUS, INTERNAL BAFFLE, FUEL LEVEL FLOAT OR OBSTRUCTION.
- B. REFER TO THE HOLE PATTERN VIEW AND LAYOUT THE HOLES IN THE LOCATION DETERMINED FROM STEP A. THEN CENTER PUNCH THE THREE HOLE CENTERS.

CAUTION: TAKE PRECAUTIONS TO MINIMIZE OR ELIMINATE METAL CHIPS AND SHAVINGS FROM FALLING INTO THE FUEL TANK, SUCH AS USE OF A MAGNET AND/OR GREASE.

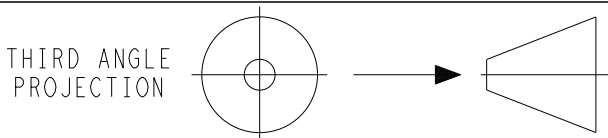
- C. USING A 1/2" DRILL BIT, DRILL THE TWO OUTSIDE 1/2" HOLES FIRST.
- D. USING A 1-1/4" HOLE SAW, DRILL THE REMAINING HOLE IN THE CENTER.

CAUTION: CLEAN ALL METAL PARTICLES, GREASE, OIL, AND RESIDUE FROM THE AREA TO PROVIDE A CLEAN SEALING SURFACE. DO NOT APPLY ANY ADHESIVES OR SEALANTS.

- E. MEASURE THE DEPTH OF THE FUEL TANK. MODIFY THE LENGTH OF THE TUBES SO THEY ARE APPROXIMATELY 1.00" [25.4 mm] ABOVE THE BOTTOM OF THE TANK.
- F. SLIDE ALL MOUNTING HARDWARE OVER THE CURVED PORTION OF THE TUBES AS FAR FORWARD AS POSSIBLE. INSERT THE TUBES INTO THE TANK OPENING, AND TILT THE LARGE BACK-UP WASHER SO IT FALLS THROUGH THE SLOT FORMED BY THE TWO 1/2" HOLES.
- G. WITH THE BACK-UP WASHER FULLY IN THE TANK, LIFT THE TUBE ASSEMBLY UP UNTIL IT STOPS. SLIDE ALL REMAINING HARDWARE DOWN TOWARDS THE THREADED BUSHING.
- H. SEAT THE SEALING GASKET FIRMLY AGAINST THE TOP OF THE TANK AND START THE NUT. POINT THE TUBES IN THE PROPER DIRECTION, AND TIGHTEN THE NUT TO 18-20 FT-LBS [24-27 Nm].



D	RENUMBERED SHT:14 WAS 13	15 MAR 2017	MGC			71N0218P17
A	INITIAL RELEASE	25 SEPT 15	MGC			71N0232P15
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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

TITLE
INSTALLATION INSTRUCTION

SUPERSEDES: _____

PART CLASSIFICATION: US EAR99

DRAWING NO.	REV
98-03352 SHEET 14 of	D

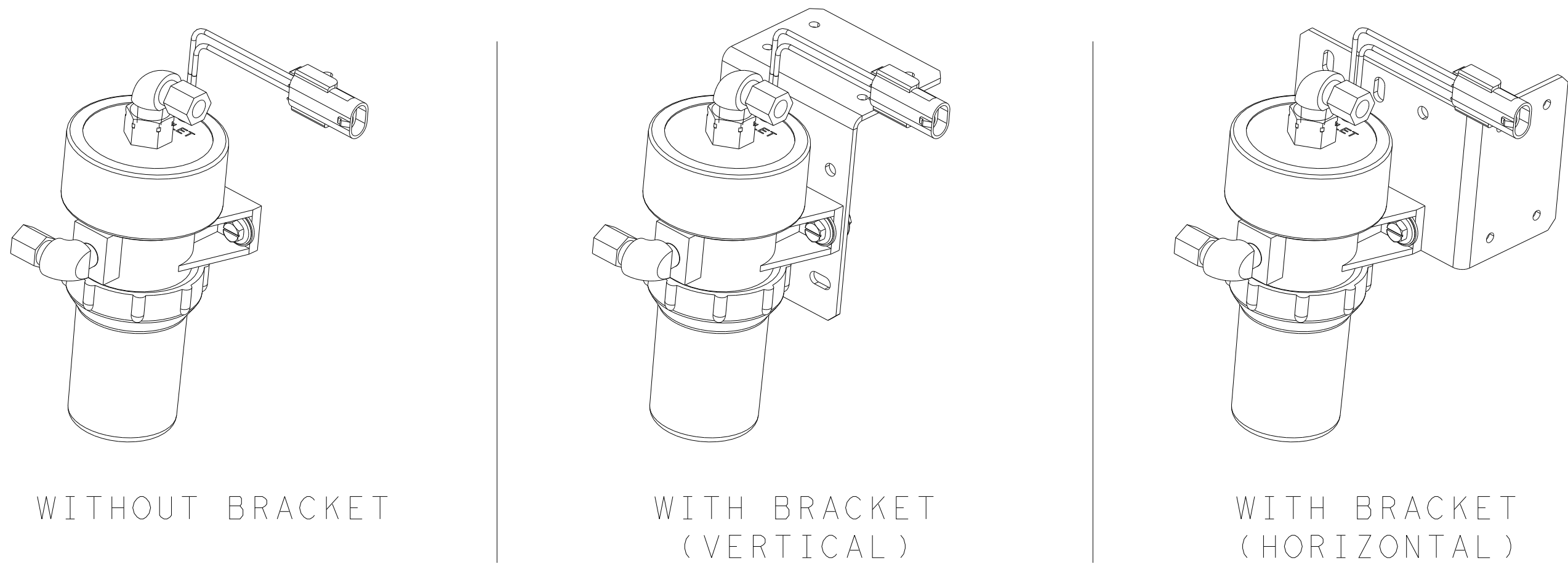
DRAWING CLASSIFICATION: US EAR99

1. DETERMINE THE DESIRED LOCATION FOR THE FUEL PUMP BY USING THE FOLLOWING CRITERIA.
- FUEL PUMP TO BE MOUNTED VERTICALLY AND AS CLOSE AS POSSIBLE TO THE FUEL TANK
 - FUEL PUMP NOT TO BE INSTALLED MORE THAN 30 INCHES [762 MM] ABOVE FUEL LINES IN THE FUEL TANK.
 - ALLOW CLEARANCE FOR REMOVAL OF FILTER ELEMENT AS NOTED IN DIAGRAM BELOW.

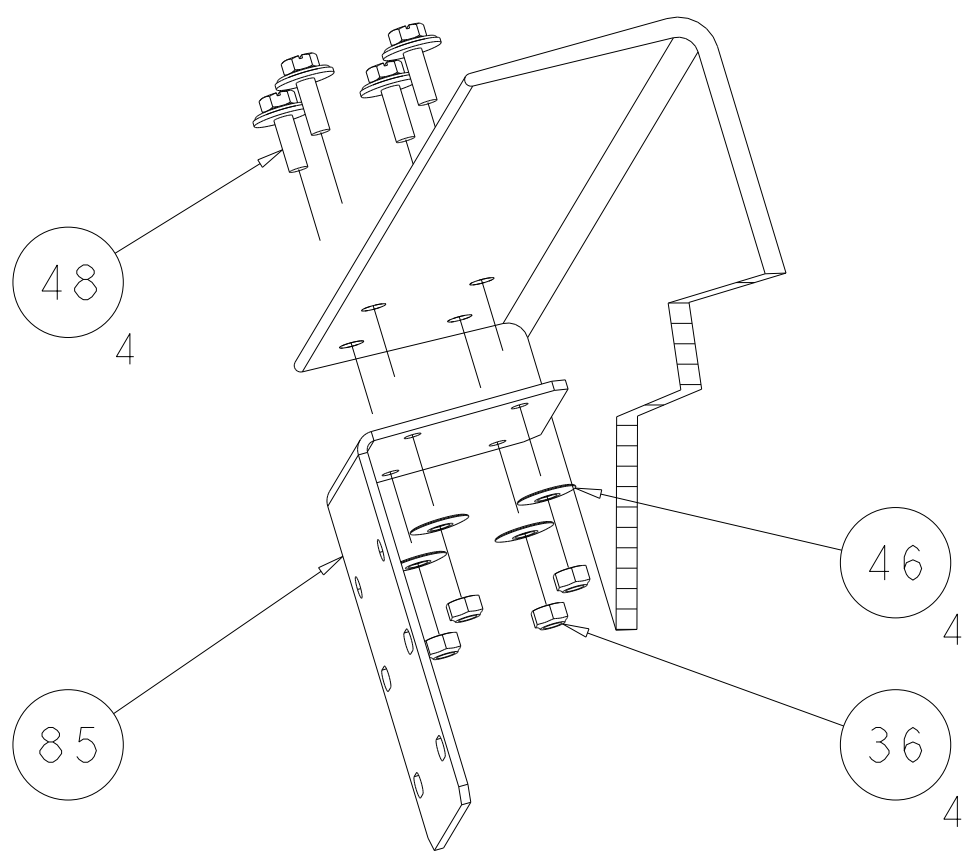
2. AN OPTIONAL FUEL PUMP MOUNTING BRACKET IS INCLUDED. THE BRACKET CAN BE MOUNTED VERTICALLY OR HORIZONTALLY AS NEEDED USING LOOSE HARDWARE. MAKE CERTAIN TO MOUNT THE FUEL PUMP VERTICALLY.

3. MOUNT THE FUEL PUMP AND MAKE THE FUEL PUMP HARNESS CONNECTION. VERIFY THE WIRE ORIENTATIONS AND CORRECT IF NECESSARY.
4. POSITION THE FUEL PUMP HARNESS ABOVE THE FUEL LINES AND SECURE THE HARNESS WITH ITEMS 26 & 28.

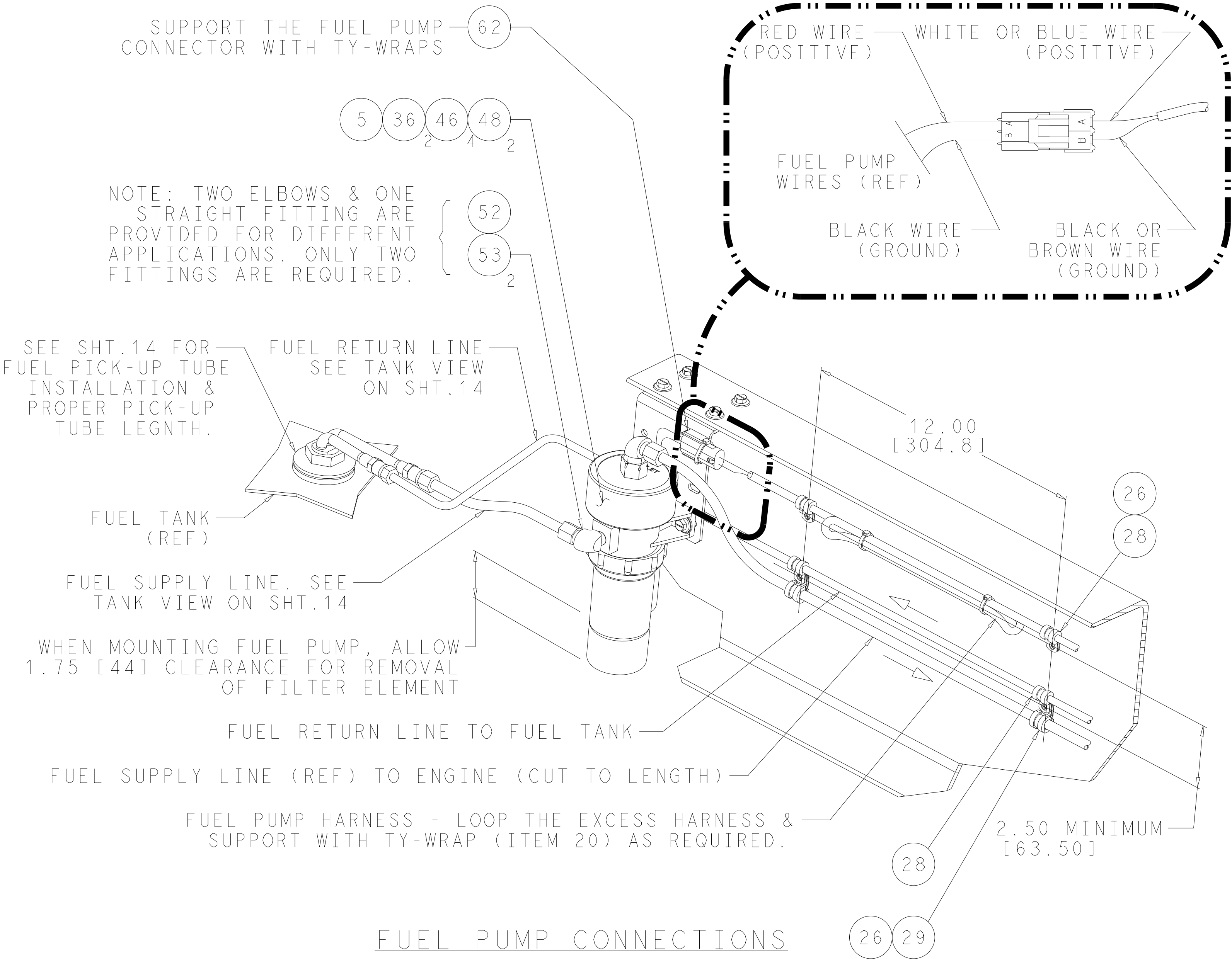
5. ROUTE AND SECURE THE FUEL LINES WITH ITEMS 26, 28 & 29.



PUMP MOUNTING OPTIONS



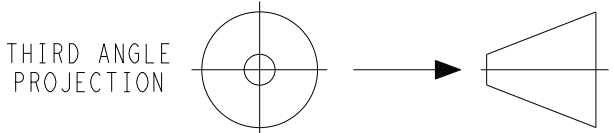
FUEL PUMP MOUNTING BRACKET
(OPTIONAL)



FUEL PUMP CONNECTIONS

FUEL LINE ROUTING/ELECTRICAL CONNECTIONS

D	RENUMBERED SHT:15 WAS 14	15 MAR 2017	MGC			71N0218P17
A	INITIAL RELEASE	25 SEPT 15	MGC			71N0232P15
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.

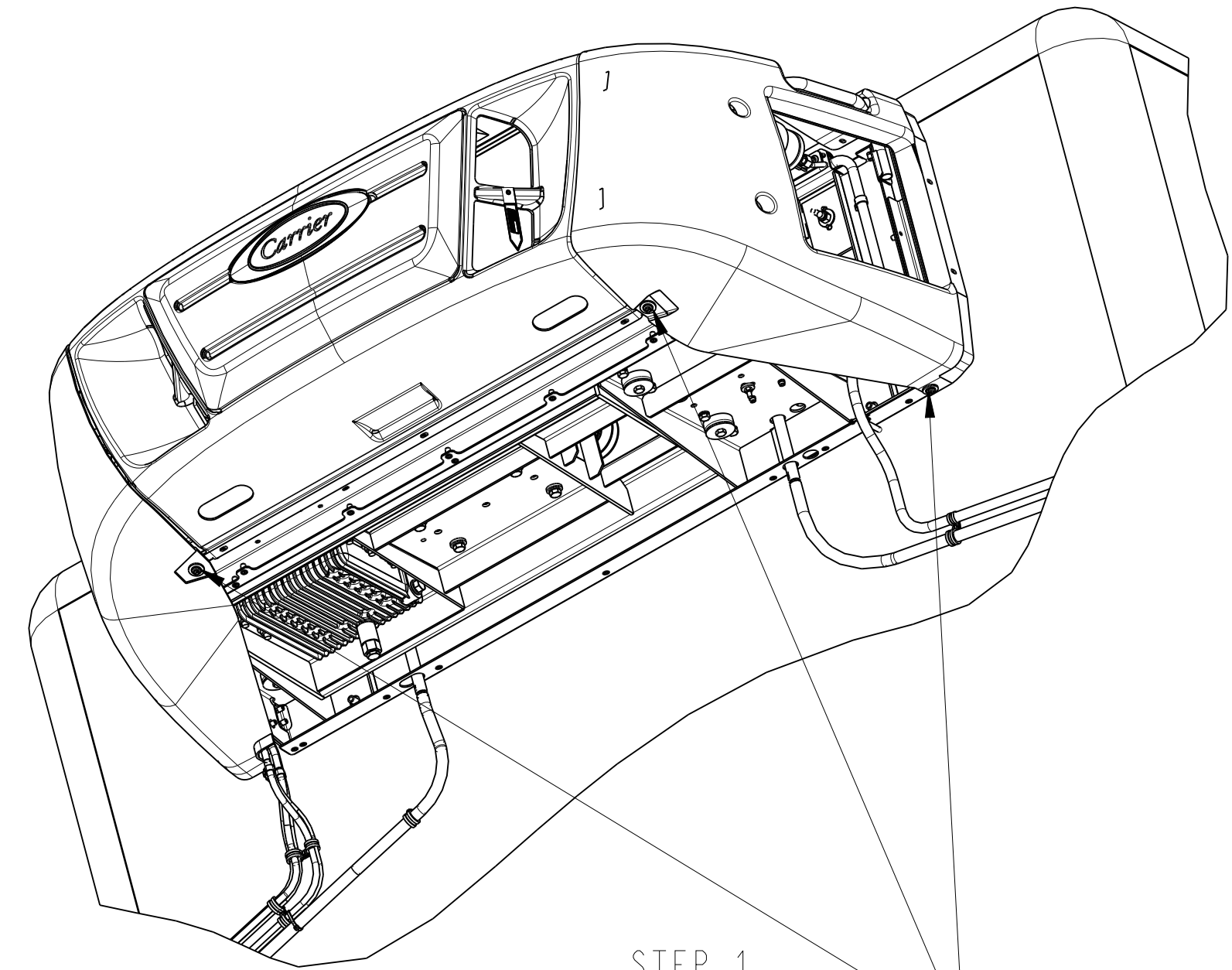


IMPERIAL INCH FORMAT:
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METRIC CONVERSIONS IN [MILLIMETERS]

TITLE	INSTALLATION INSTRUCTION	DRAWING NO.	98-03352	REV	D
			SHEET 15 of		

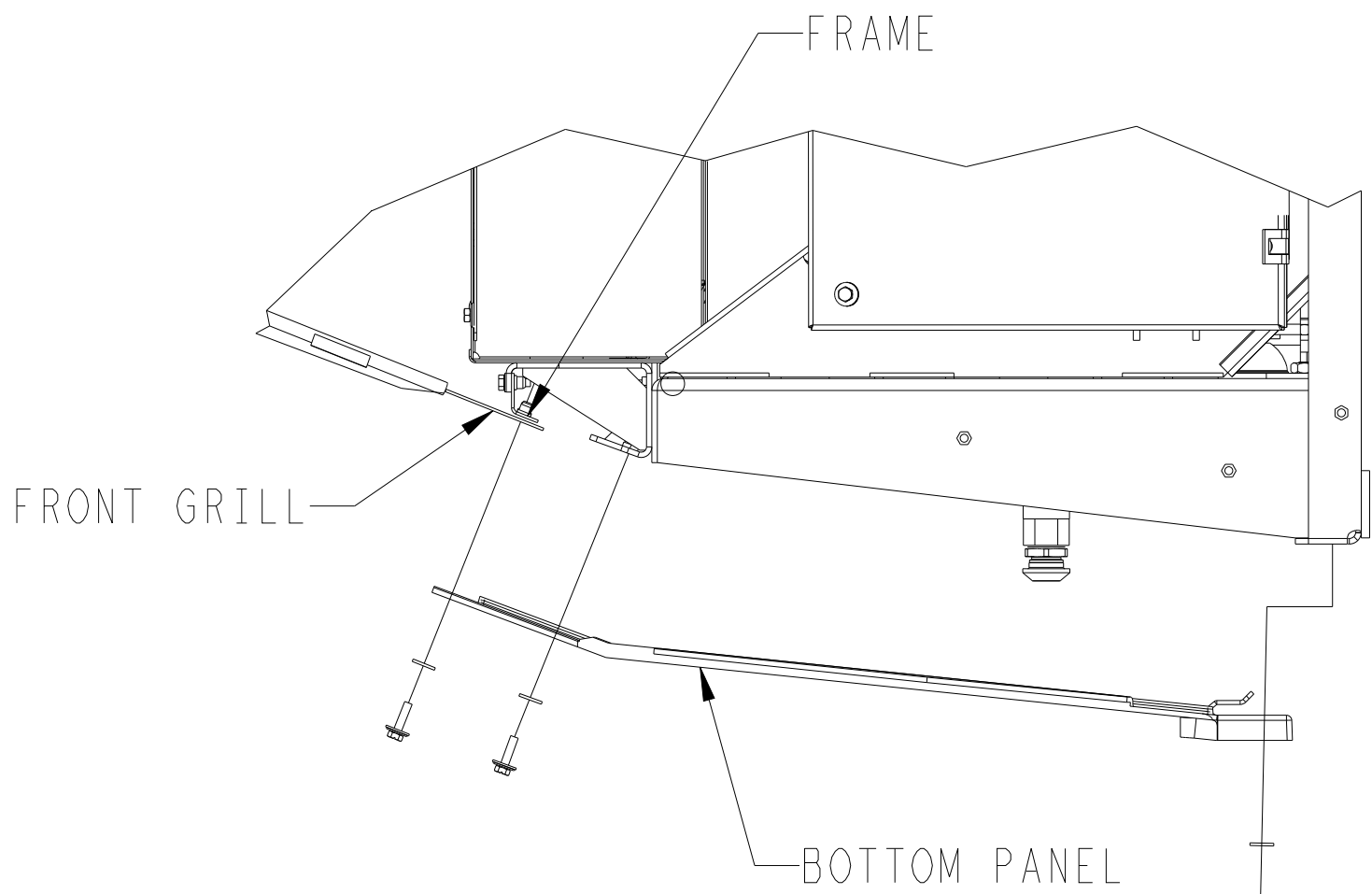
SUPERSEDES: _____

PART CLASSIFICATION: US EAR99



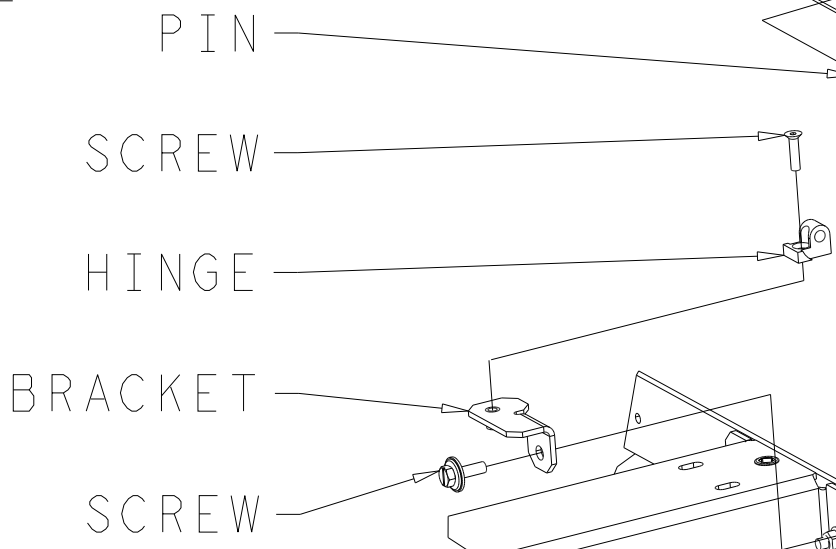
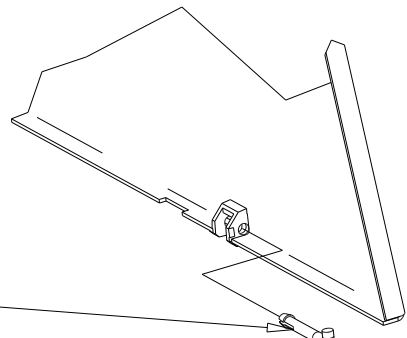
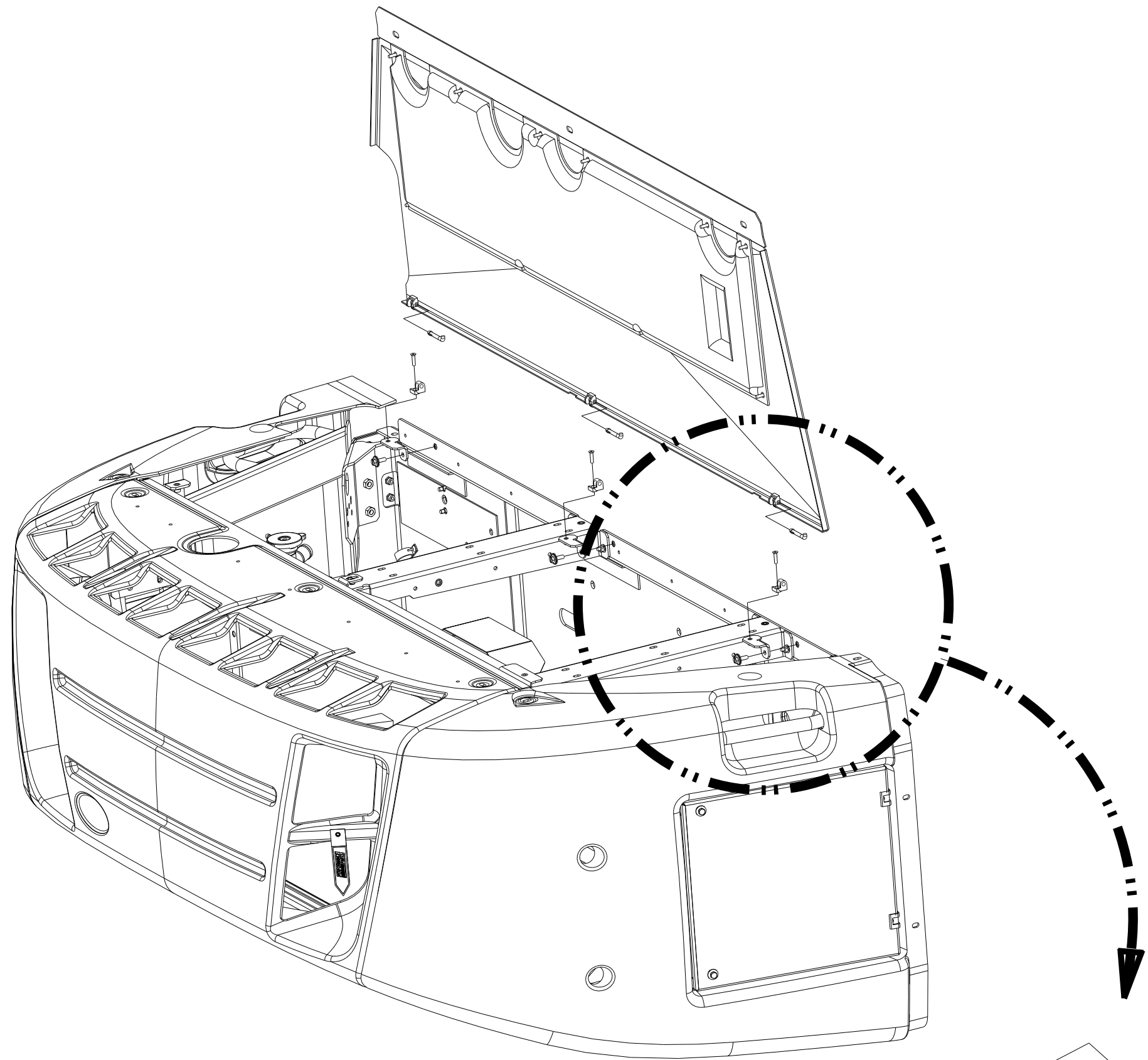
STEP 1

LOCATE THE HARDWARE SUPPLIED WITH THE
BOTTOM PANEL. USE BOLTS AND THE LARGE
NYLON WASHERS TO SECURE THE UNIT DOORS.
DO NOT OVERTIGHTEN HARDWARE.

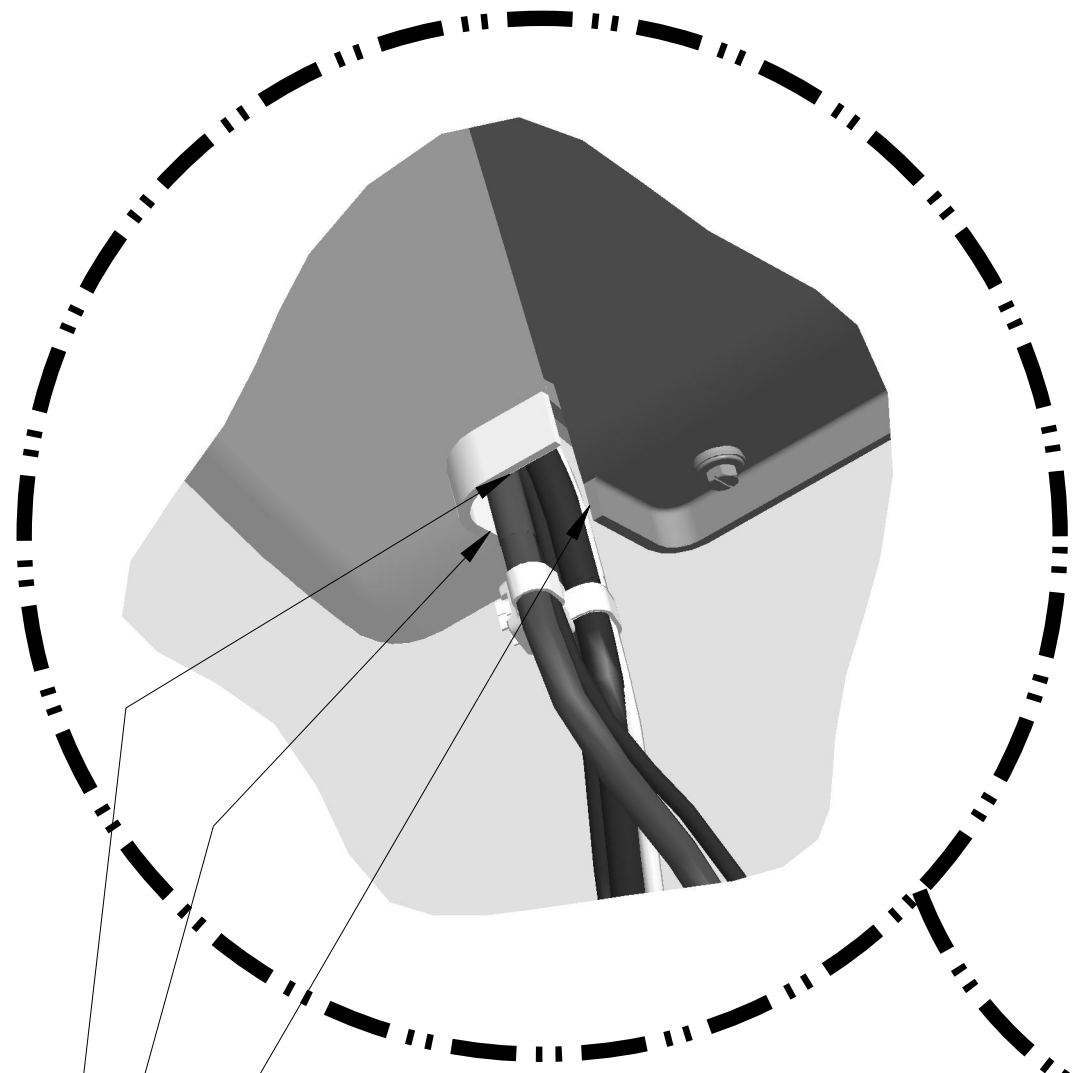
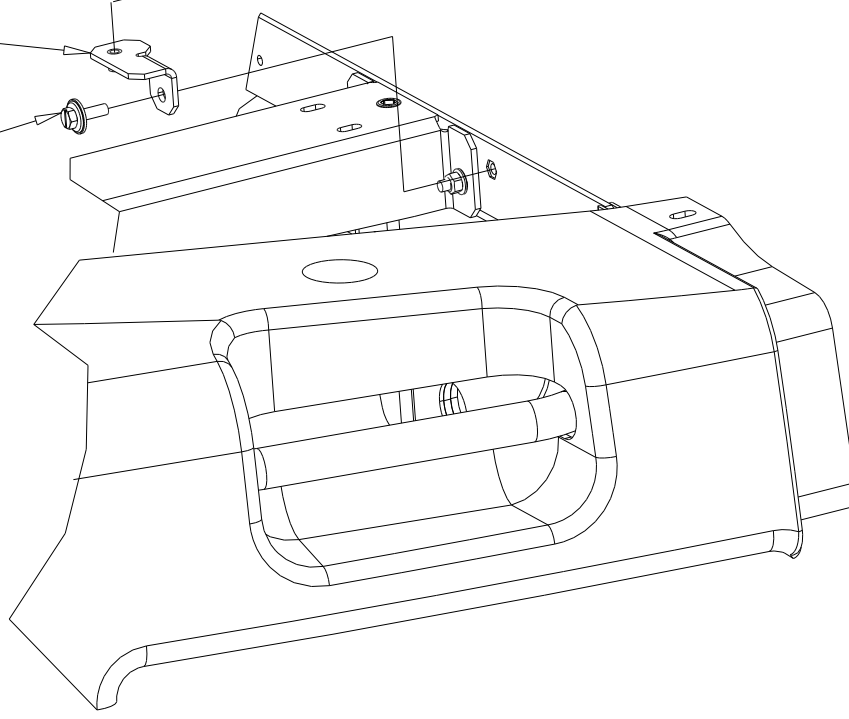


FRONT GRILLE MUST BE MOUNTED
BETWEEN FRAME AND BOTTOM PANEL

SIDE VIEW

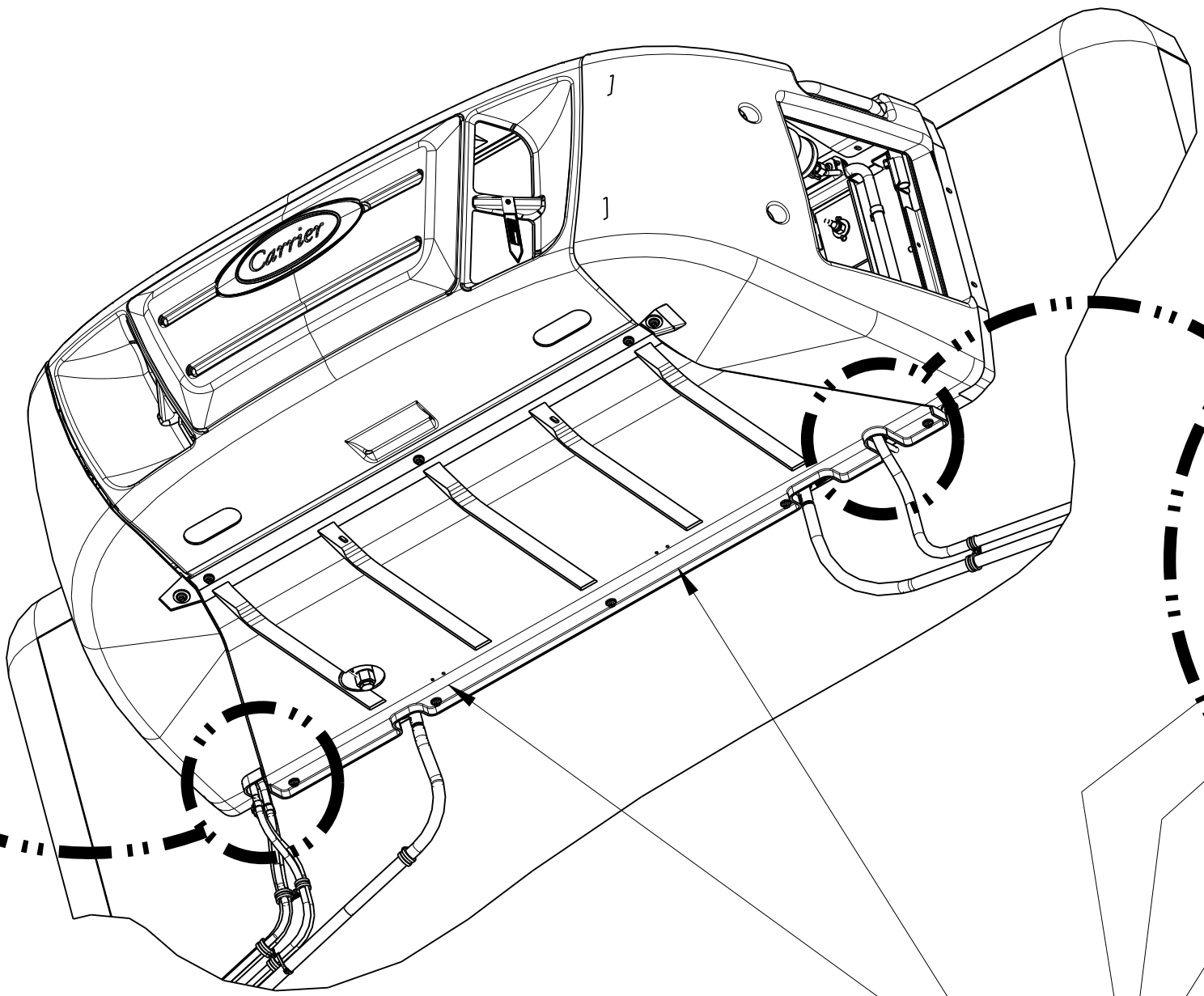


ITEMS ARE SHOWN FOR
REFERENCE PURPOSES
ONLY - (SUPPLIED
WITH TOP GRILLE KIT
OPTION)



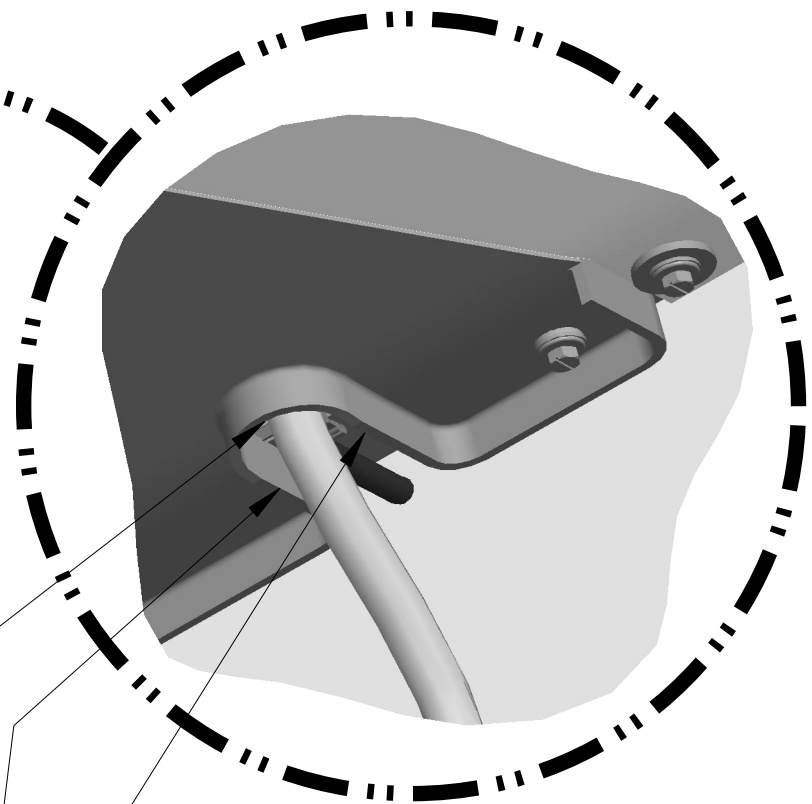
IMPORTANT

MAKE CERTAIN THERE IS
NO CHAFING OF ELECTRICAL AND
FUEL LINES AGAINST EDGES OR
SURFACES.



STEP 2

INSTALL THE BOTTOM PANEL BY USING THE CLIPS
LOCATED ON THE BACKSIDE TO SECURE THE PANEL
TO THE UNIT. USE BOLTS AND THE SMALL NYLON
WASHERS TO SECURE THE BOTTOM PANEL.



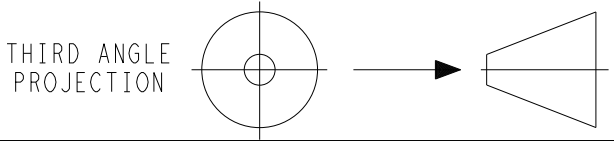
IMPORTANT

MAKE CERTAIN THERE IS
NO CHAFING OF ELECTRICAL
LINES AGAINST EDGES OR
SURFACES.

BOTTOM PANEL MOUNTING

TOP PANEL (OPTIONAL) MOUNTING

D	RENUMBERED SHT:16 WAS 15	15 MAR 2017	MGC			71N0218P17
A	INITIAL RELEASE	25 SEPT 15	MGC			71N0232P15
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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

TITLE
INSTALLATION INSTRUCTION

DRAWING NO.
98-03352
SHEET 16 OF
REV
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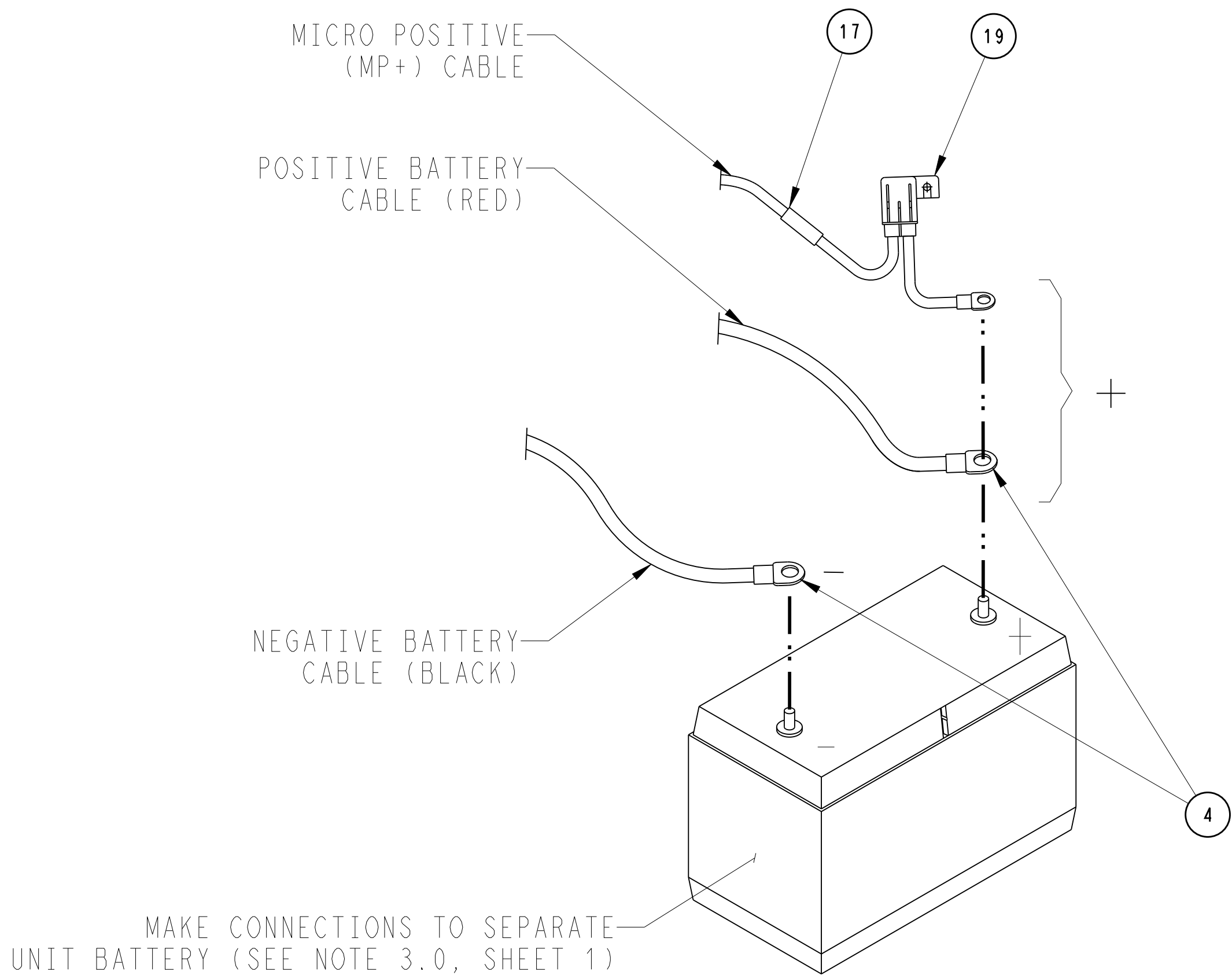
SUPERSEDES:

PART CLASSIFICATION: US EAR99

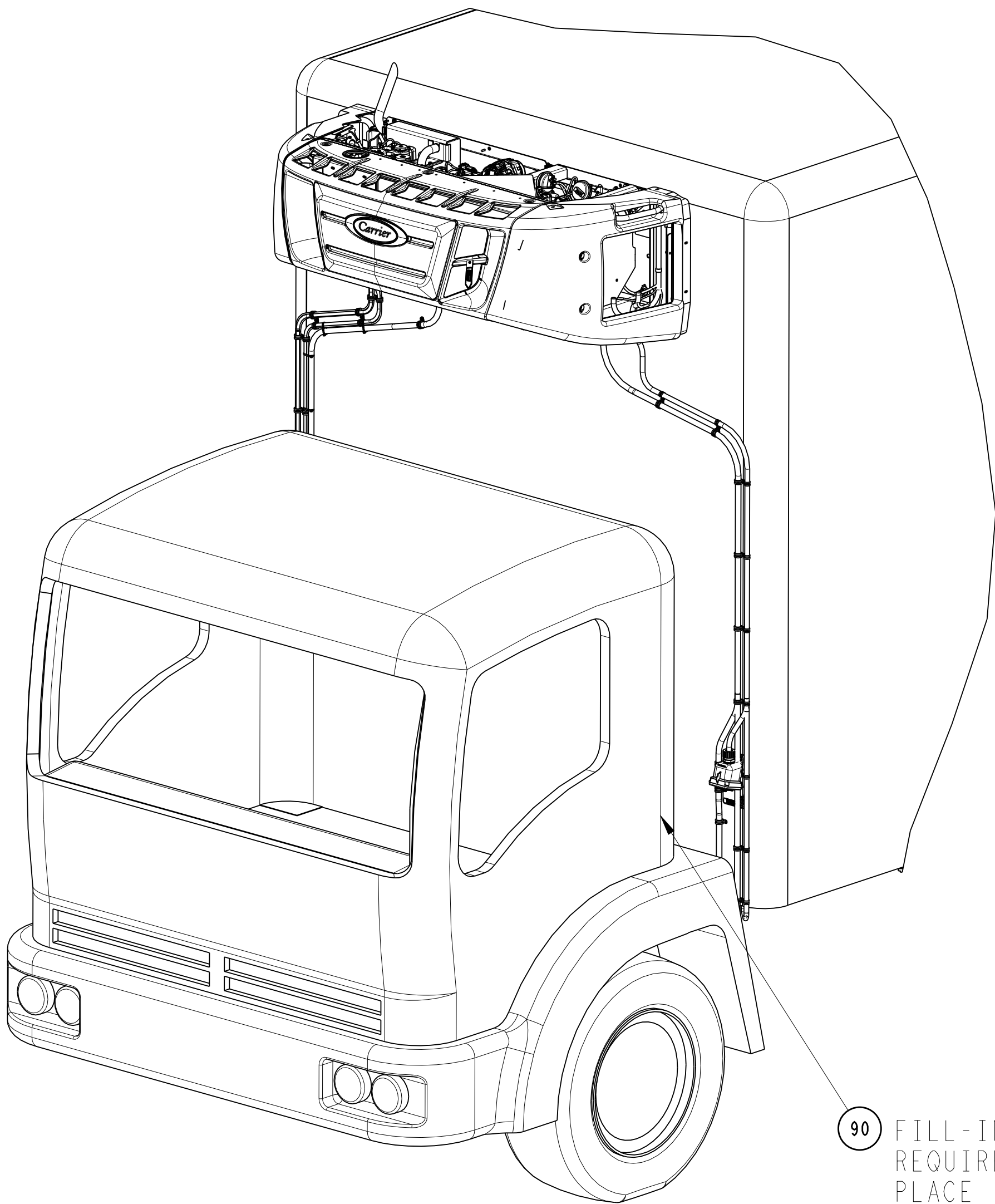
DRAWING CLASSIFICATION: US EAR99

INSTRUCTIONS FOR BATTERY CABLE TERMINALS & MICRO POSITIVE FUSE

- 1.0 MAKE CERTAIN THE UNIT HAS NO ELECTRICAL POWER ATTACHED (AC OR DC), AND THE UNIT IS DISABLED.
APPLY LOCK OUT / TAG OUT PROCEDURE.
- 2.0 REFER TO SHEET 1 FOR BATTERY AND BATTERY BOX INFORMATION.
- 3.0 CUT THE CABLES TO THE DESIRED LEGNTH.
- WHEN STRIPPING EACH WIRE, DO NOT CUT THROUGH OR NICK INDIVIDUAL STRANDS OF WIRE.
- DO NOT USE PRE-INSULATED TERMINALS
- TAKE CAUTION THERE ARE NO LOOSE OR STRAY WIRE STRANDS WHEN CRIMPING WIRES.
- 4.0 BATTERY CABLES: STRIP EACH BATTERY CABLE 1/2". INSTALL TERMINAL AND CRIMP.
- 5.0 MICRO POSITIVE (MP+) CABLE: STRIP WIRE 1/4". SLIP THE HEAT SHRINK (ITEM 17) ONTO THE WIRE.
INSTALL WIRE TO BUTT SPLICE OF ITEM 19. CRIMP WIRE, AND HEAT SHRINK ITEM 17 OVER THE CENTER
OF THE SPLICE.
- 6.0 INSTALL THE POSITIVE BATTERY CABLE ON THE BATTERY FIRST WITH THE MICRO POSITIVE ON TOP.
THEN INSTALL THE NEGATIVE BATTERY CABLE.
- 7.0 COAT TERMINALS WITH GREASE OR SIMILAR MATERIAL TO PREVENT CORROSION.



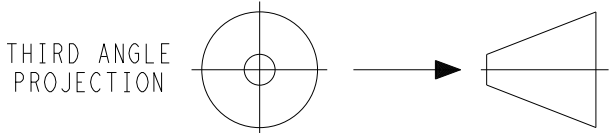
BATTERY CABLE & MP+ CABLE TERMINATION



90 FILL-IN THE INFORMATION
REQUIRED ON THE DECAL AND
PLACE INSIDE DOOR JAM.

Carrier TRANSCOLD		REFRIGERATION UNIT
MODEL :		
SERIAL NO :		
DATE IN SERVICE :		
62-04056-00		

D	RENUMBERED SHT:17 WAS 16	15 MAR 2017	MGC			71N0218P17
A	INITIAL RELEASE	25 SEPT 15	MGC			71N0232P15
SYM	REVISION RECORD	DATE	BY	ENGR.	M.E.	NPCA NO.



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

TITLE
INSTALLATION INSTRUCTION

DRAWING NO.
98-03352
SHEET 17 OF

REV
D

SUPERSEDES: _____

PART CLASSIFICATION: US EAR99

DRAWING CLASSIFICATION: US EAR99