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CARRIER  
TRANSCOLD

Carrier Transcold Division  
Carrier Corporation  
P.O. Box 4805  
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PART NO.	MODEL DESCRIPTION
98-03283-00	SUPRA 950-M/T

INSTALLATION PROCEDURE:

1. 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 TRANSCOLD FOR THE STRUCTURAL INTEGRITY OF THE TRUCK BODY.
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].

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SHEET	REV	B	A	B	A	B	B	A	
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B	REV'D SHT's 3,5,6 & 7 PER IPCA71N200GP09, SHT.02					MGC	12 JAN 2009
A	UPDATED SHT. INDEX;RENUMBERED SHT's; ADDED -01; PER IPCA71N200GP08, SHT.36					MGC	8 MAY 2008
SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE

SUPERSEDES	TITLE	DRAWING NO.	REV
	INSTALLATION INSTRUCTIONS SUPRA 950 MULTI-TEMP	98-03283 SHT.1 OF 8	B

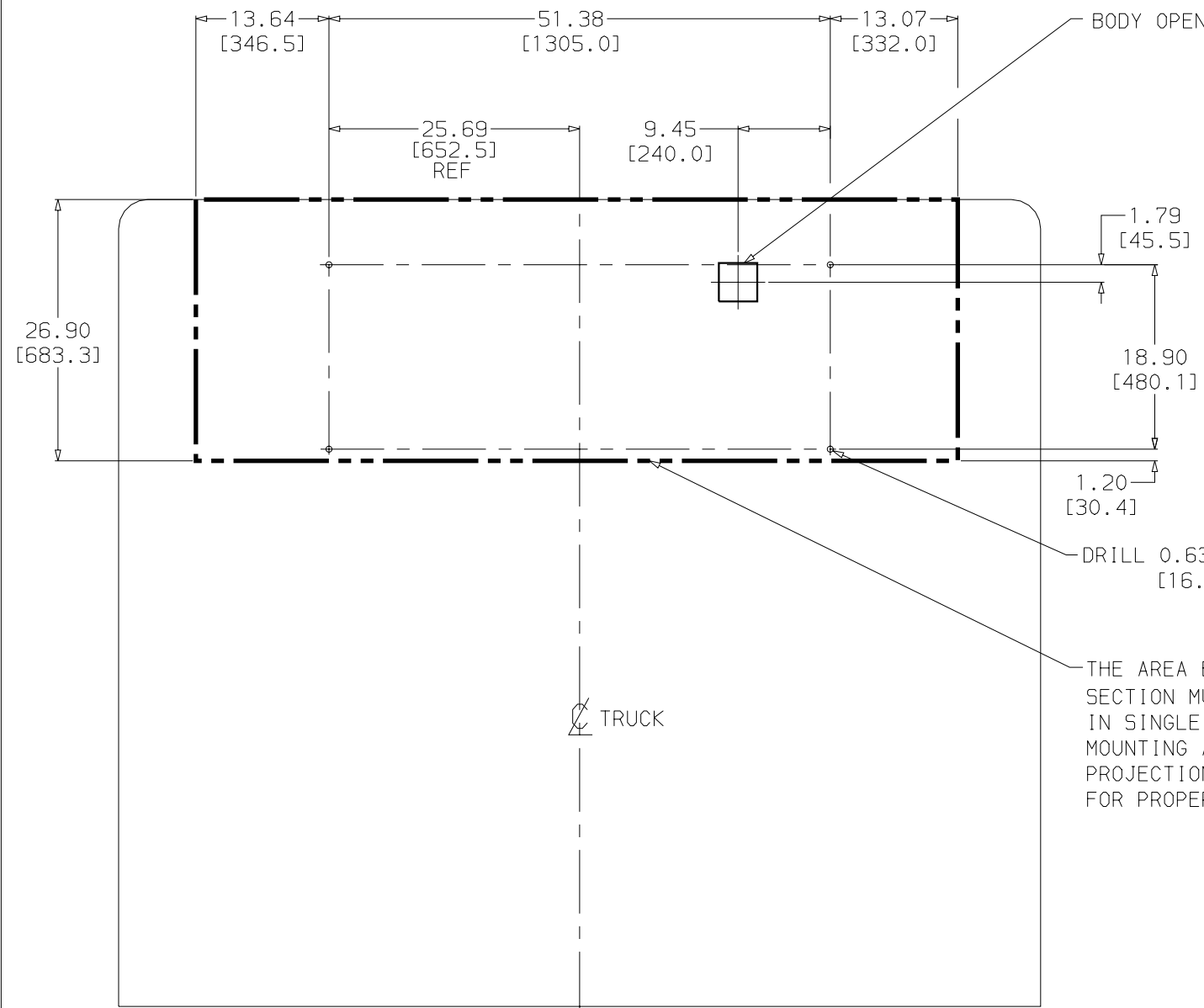


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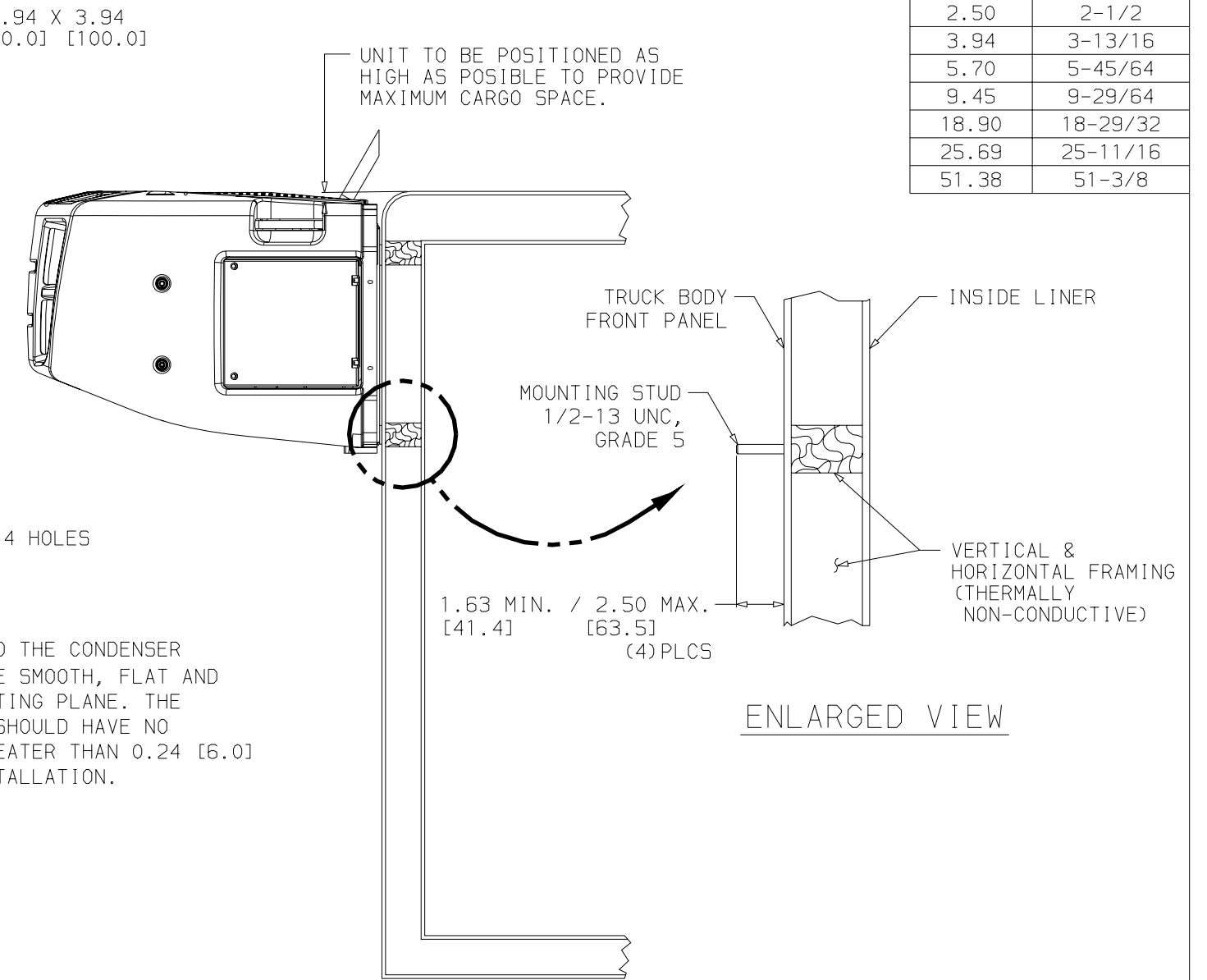
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CONVERSION CHART	
DECIMAL INCHES	FRACTIONAL INCHES
0.24	15/64
0.63	5/8
1.63	1-5/8
1.79	1-29/32
2.50	2-1/2
3.94	3-13/16
5.70	5-45/64
9.45	9-29/64
18.90	18-29/32
25.69	25-11/16
51.38	51-3/8



FRONT VIEW



SIDE VIEW

TRUCK BODY PREPARATION

DRILL 0.63 DIA 4 HOLES [16.0]

THE AREA BEHIND THE CONDENSER SECTION MUST BE SMOOTH, FLAT AND IN SINGLE MOUNTING PLANE. THE MOUNTING AREA SHOULD HAVE NO PROJECTIONS GREATER THAN 0.24 [6.0] FOR PROPER INSTALLATION.

NOTES:  
 1.0 ALL DIMENSIONS SHOWN ARE INCHES, WITH METRIC CONVERSIONS IN [MILLIMETERS].

A	ADDED DIM's: 1.20, 26.90, 13.64 & 13.07 TO DEFINE UNIT AREA PER IPCA71N200GP08, SHT.36					MGC	8 MAY 2008
-	INITIAL RELEASE PER IPCA71N200GP07, SHT.76					MGC	30 NOV 2007
SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE

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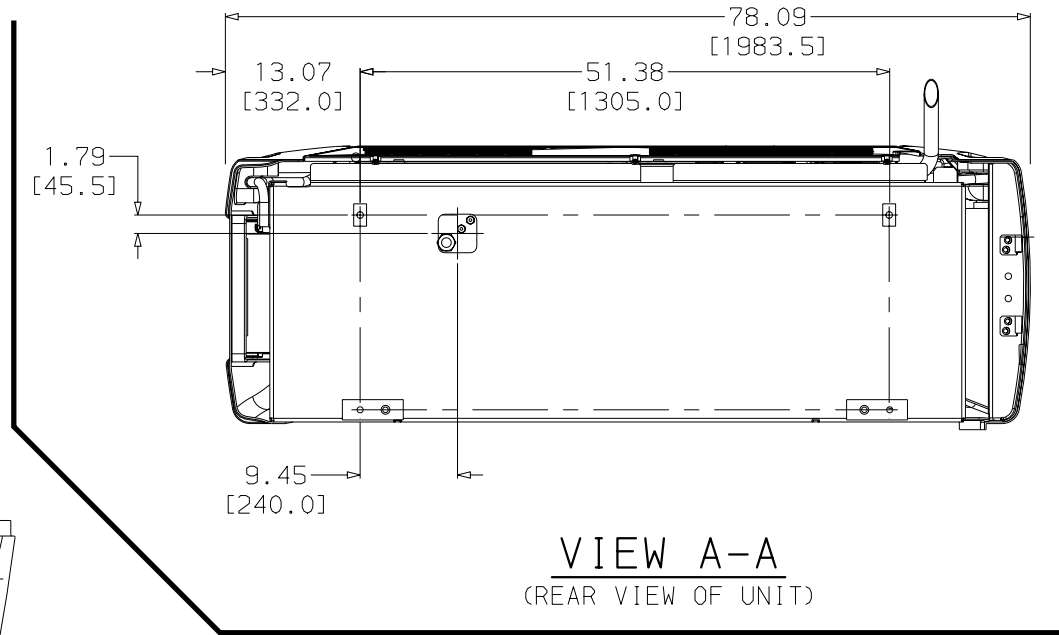
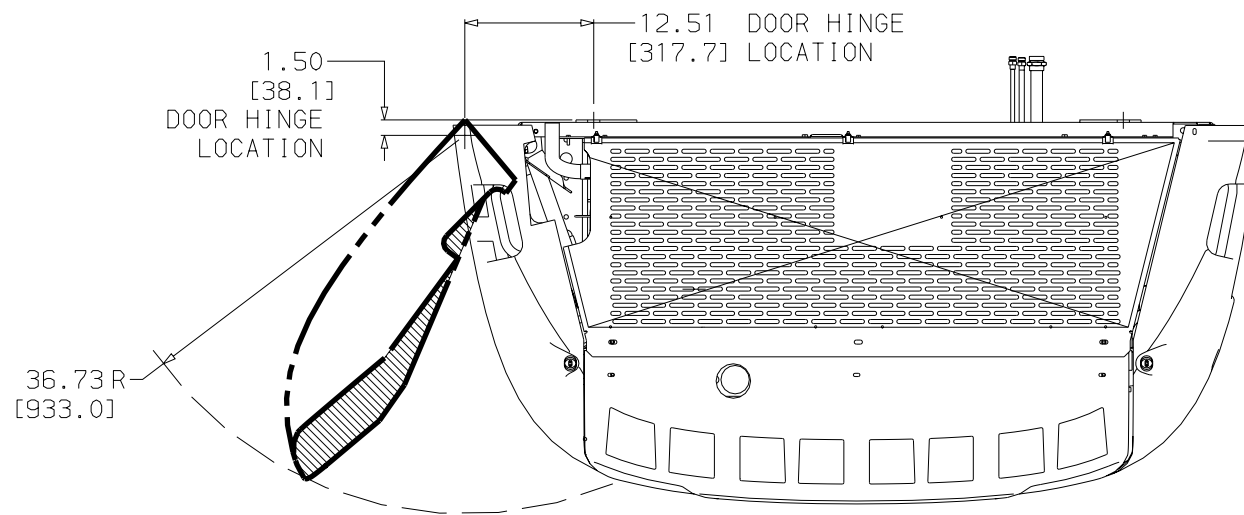
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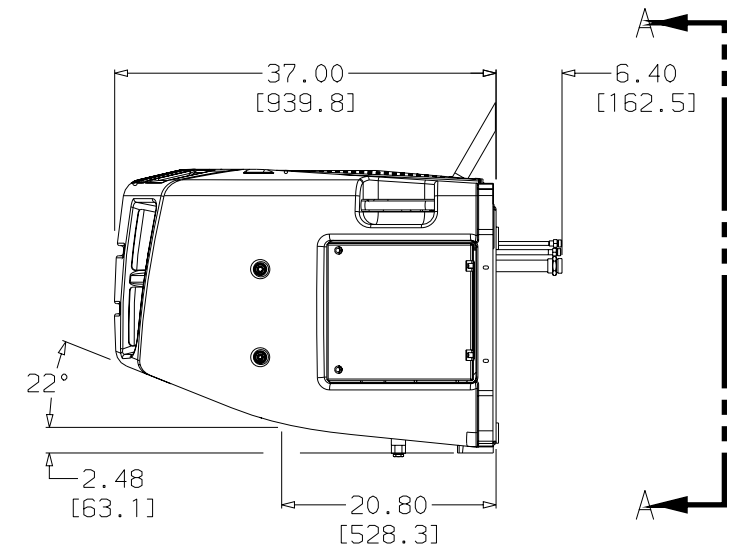
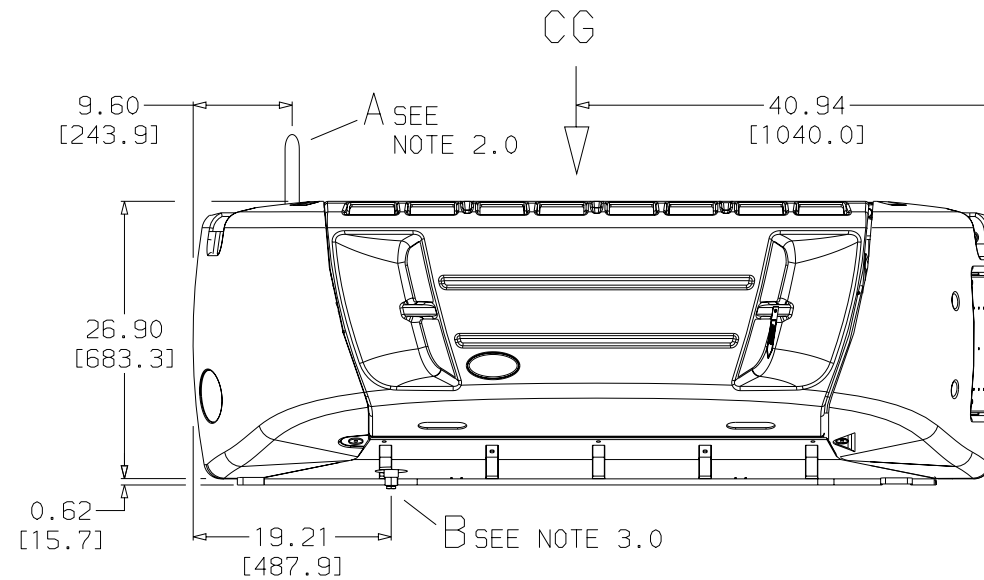
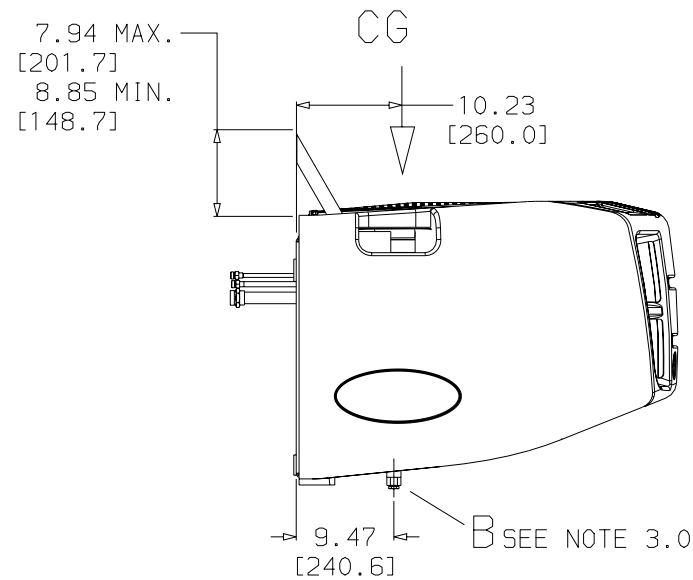
**NOTES:**

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



MODEL	DESCRIPTION	WEIGHT
SUPRA 950 MULTI-TEMP TDD	w/o LOW NOISE	1175 lbs [533 Kg]
	w/ LOW NOISE	1208 lbs [548 Kg]

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



**UNIT DIMENSIONAL DATA - 950-M/T**

B	REV'D UNIT WEIGHTS PER IPCA71N200GP09, SHT.02					MGC	12 JAN 2009
A	PIC'T ADDED DOOR W/SWING RADIUS; ADDED: 36.73R, DOOR HINGE LOCATIONS: 1.50 & 12.51 PER IPCA71N200GP08,SHT.36					MGC	8 MAY 2008
SYM	REVISION RECORD	ENGRG.	DATE	NPCA NO.	DATE	DRAWN BY	DATE

SUPERSEDES

TITLE

INSTALLATION INSTRUCTIONS  
SUPRA 950 MULTI-TEMP

DRAWING NO.  
**98-03283**  
SHT. 3 OF

REV  
**B**



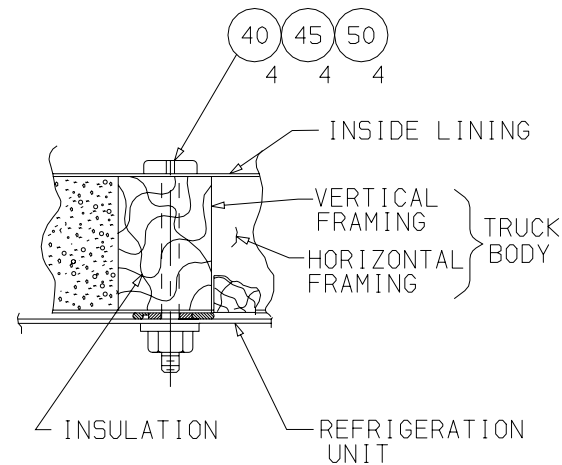
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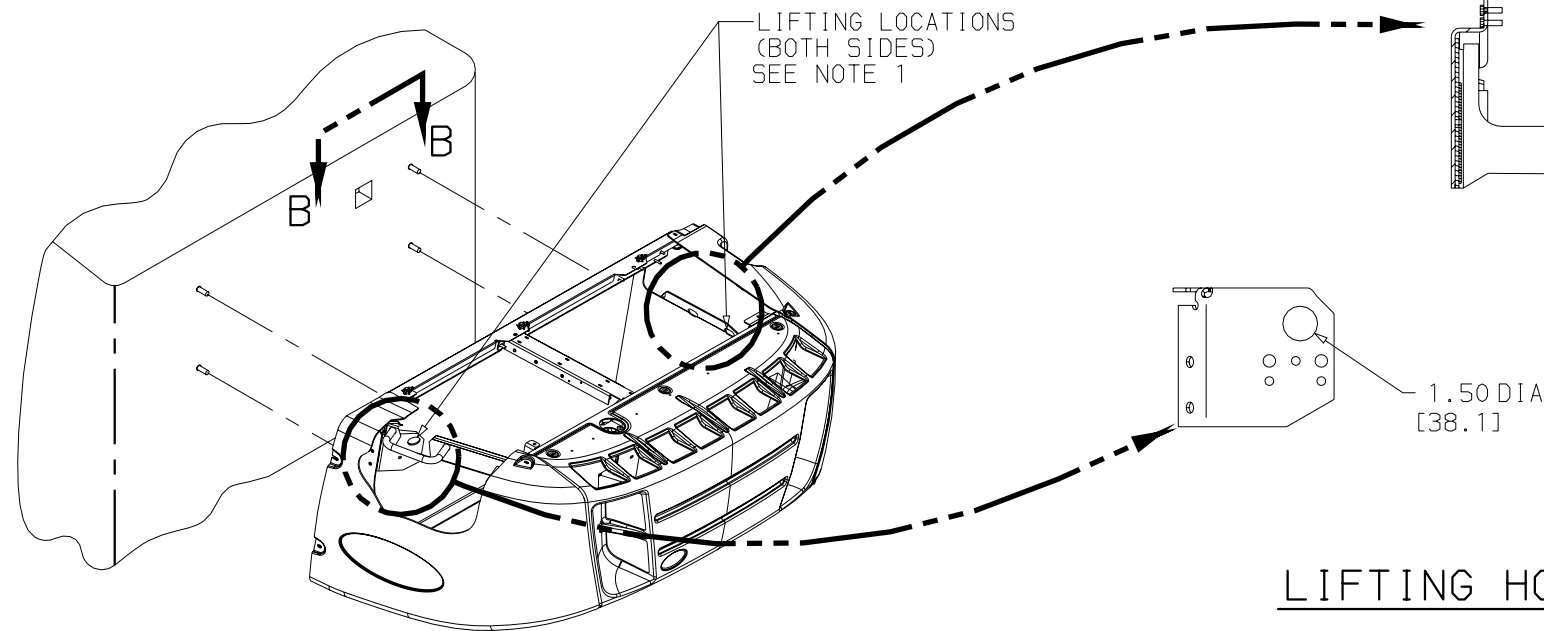
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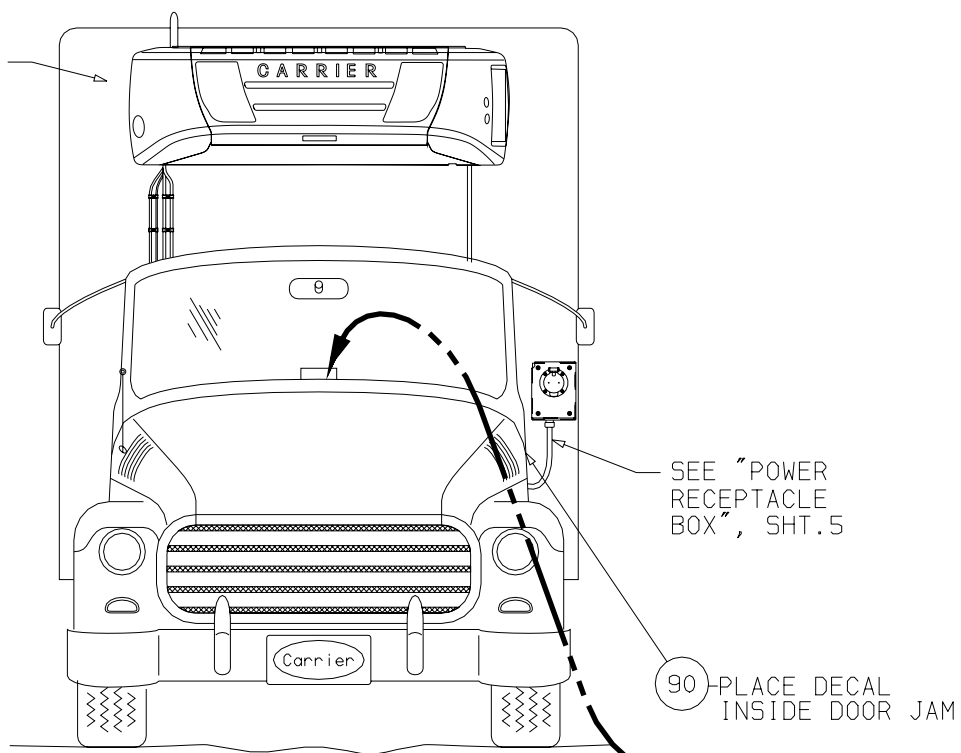
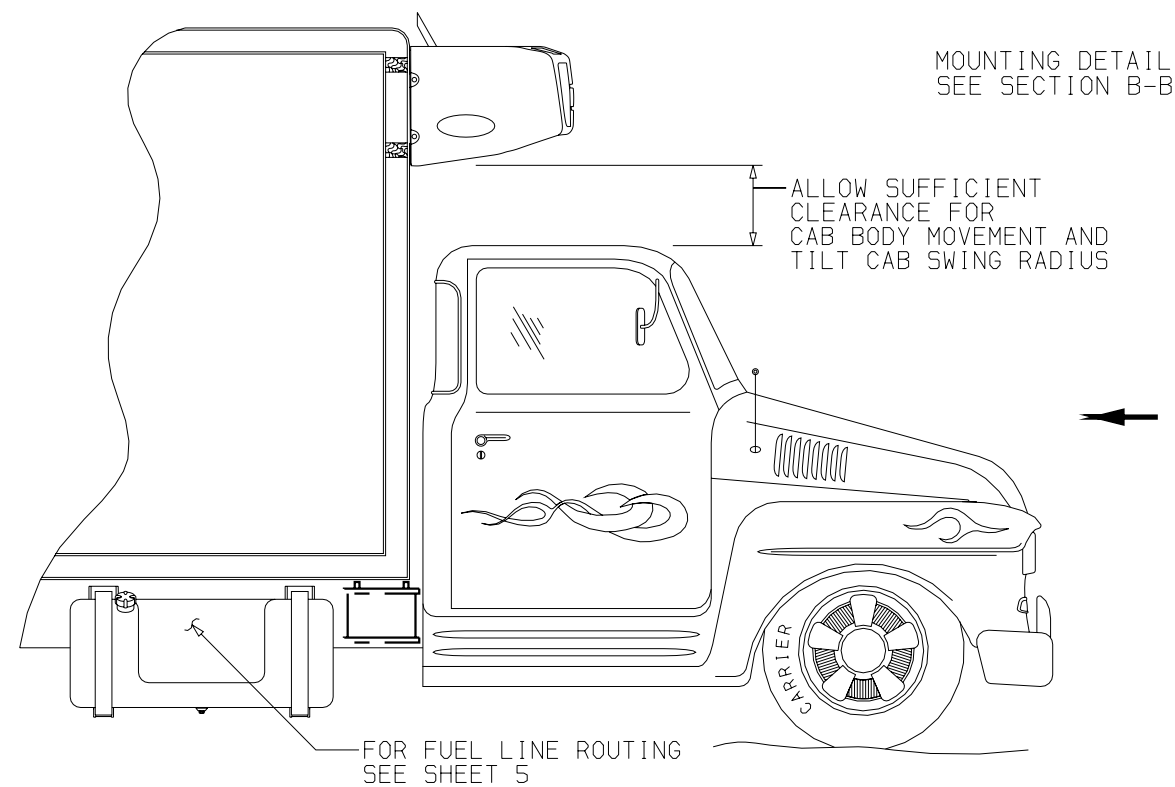
- CAUTION:** A SPREADER BAR MUST BE USED TO LIFT UNIT. ADJUST SPREADER BAR TO BALANCE UNIT BEFORE LIFTING. (LIFT OVER C.G.)
- FASTEN REFRIGERATION UNIT TO TRUCK BODY. TORQUE MOUNTING BOLTS TO 60 FT/LBS [81 Nm].



SECTION B-B

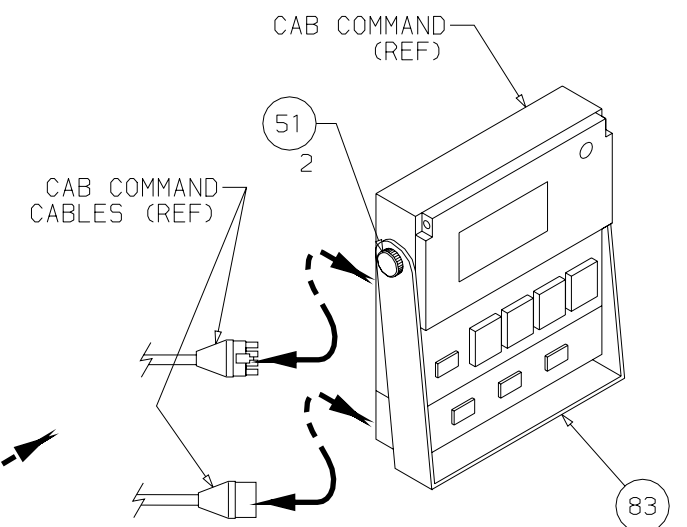


LIFTING HOLE / SLOT SIZES



UNIT INSTALLATION

- INSTALL THE CAB COMMAND INSIDE THE CAB OF THE TRUCK AT THE DESIRED LOCATION.
- ROUTE THE CAB COMMAND CABLES FROM THE CONTROL BOX TO THE CAB COMMAND AND MAKE THE CONNECTIONS AS SHOWN.



NOTES:  
1.0 ALL DIMENSIONS SHOWN ARE INCHES, WITH METRIC CONVERSIONS IN [MILLIMETERS].

A	REVISED & REDRAWN; MOVED POWER RECEPTACLE VIEW TO SHT.5 ADDED LIFTING HOLE/SLOT SIZES PER IPCA71N2006P08,SHT.36				MGC	19 MAY 2008
-	INITIAL RELEASE PER IPCA71N2006P07, SHT.76				MGC	30 NOV 2007
SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY

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TITLE

INSTALLATION INSTRUCTIONS  
SUPRA 950 MULTI-TEMP

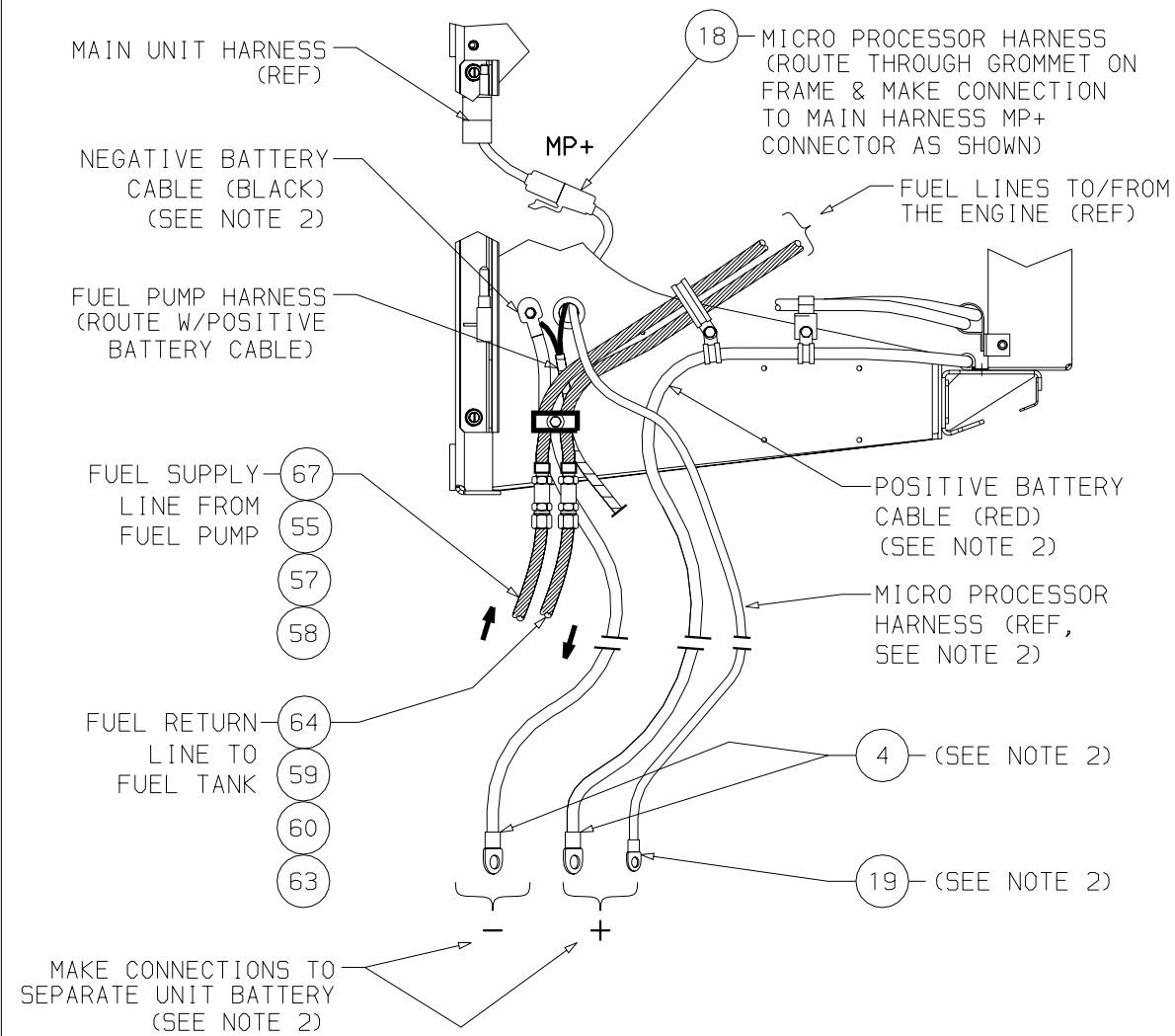
DRAWING NO.  
98-03283  
SHT. 4 OF

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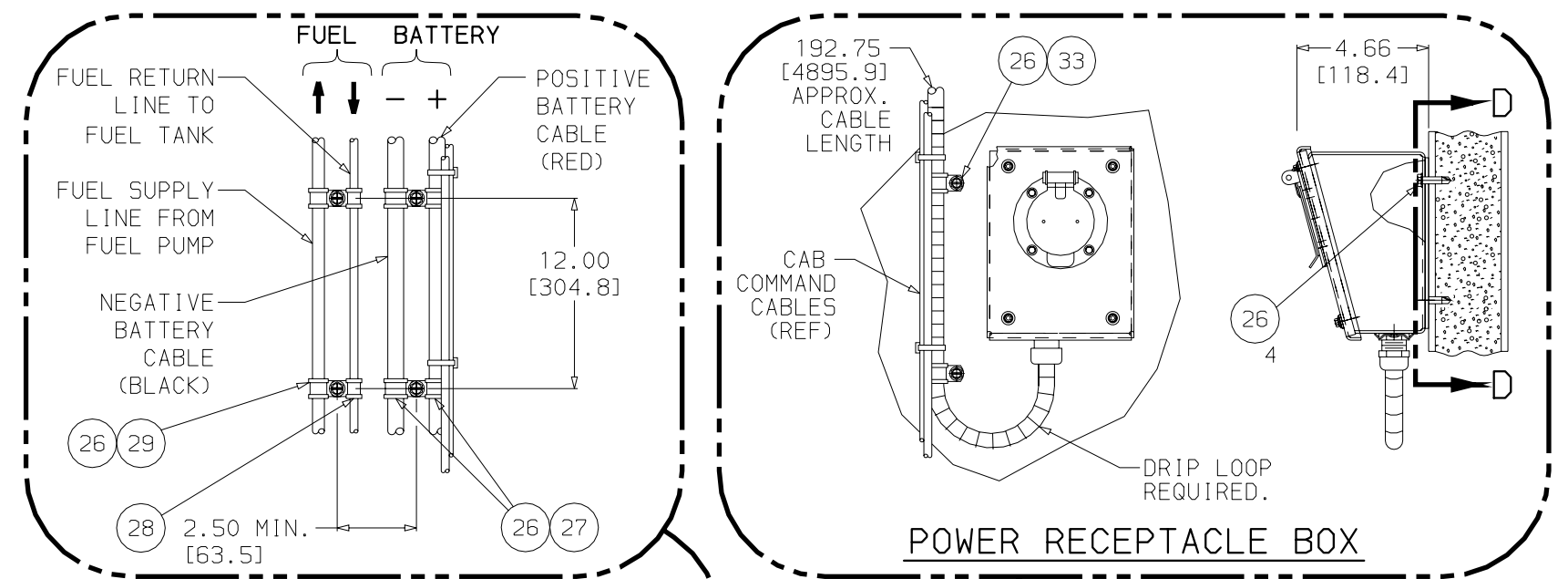


- FUEL LINE ROUTING:
  - ROUTE THE FUEL PUMP HARNESS IN ANY OF THE FOLLOWING MANNERS:
    - THRU METAL OR PLASTIC CONDUIT. MAKE SURE TO PROTECT WIRES FROM CHAFING.
    - THRU FREE SPACE CLAMPED IN SUCH A MANNER AS TO PREVENT PHYSICAL DAMAGE.
    - WITH THE POSITIVE BATTERY CABLE SEPARATE FROM ANY FUEL LINES.
  - SECURE FUEL LINES TO TRUCK BODY USING ITEMS 26, 28 & 29 AS REQUIRED. REFER TO SHEETS 6 & 7 FOR FUEL TANK CONNECTIONS.
- BATTERY CABLE ROUTING:
  - POSITION THE POSITIVE (RED) BATTERY CABLE AWAY FROM THE FUEL SUPPLY LINE AS SHOWN, AND ROUTE CABLE TO POSITIVE SIDE OF BATTERY. LEAVE ENOUGH WIRE LENGTH TO ALLOW CLAMP INSTALLATION, CUT CABLE AS REQUIRED AND ATTACH TERMINAL (ITEM 4) AND CONNECT. (COAT TERMINAL WITH GREASE OR SIMILAR MATERIAL TO PREVENT CORROSION).

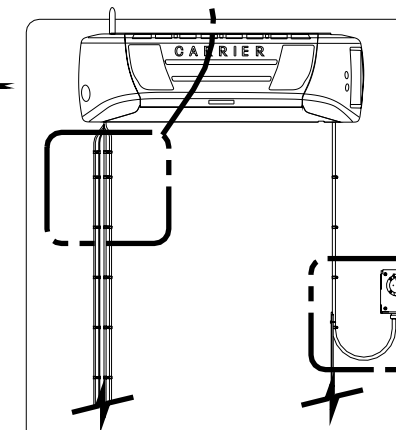
- BATTERY CABLE ROUTING CONTINUED:
- ROUTE MICRO PROCESSOR HARNESS (ITEM 18) WITH THE POSITIVE BATTERY CABLE. CUT HARNESS AS REQUIRED, ATTACH TERMINAL (ITEM 19) AND CONNECT. (COAT TERMINAL WITH GREASE OR SIMILAR MATERIAL TO PREVENT CORROSION).
  - ROUTE BLACK BATTERY CABLE TO THE NEGATIVE TERMINAL ON BATTERY. CUT AS REQUIRED, ATTACH TERMINAL (ITEM 4) TO CABLE AND CONNECT. SECURE CABLES AS SHOWN USING ITEMS 26 & 27. USE TY-WRAPS (ITEM 62) TO SECURE FUEL PUMP & MICRO PROCESSER HARNESSES.
- CAUTION:** DO NOT RUN JUMPER FROM UNIT POSITIVE STARTER TERMINAL TO MICRO POSITIVE TERMINAL, AS THIS IS CRITICAL TO PROPER UNIT OPERATION.
  - MOUNT THE POWER RECEPTACLE BOX AS SHOWN USING ITEMS 26 & 33. USE TY-WRAPS (ITEM 62) TO SECURE THE CAB COMMAND CABLES.



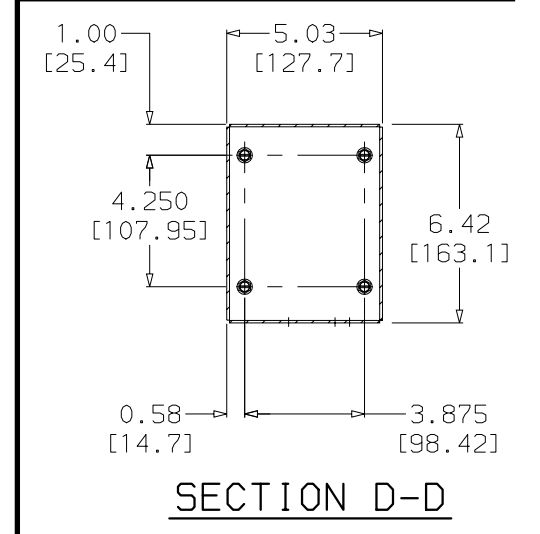
DETAIL C



SEE DETAIL C



TRUCK BODY  
(SHOWN WITHOUT CAB)



SECTION D-D

FUEL LINE ROUTING/ELECTRICAL CONNECTIONS

NOTES:

1.0 ALL DIMENSIONS SHOWN ARE INCHES, WITH METRIC CONVERSIONS IN [MILLIMETERS].

B	IN POWER REC. BOX VIEW & NOTE 4.: IT.33 WAS 30 PER IPCA71N200GP09, SHT.02					MGC	12 JAN 2009
A	REVISED & REDRAWN; MOVED FUEL PUMP CONNECTIONS VIEW TO SHT.7; PER IPCA71N200GP08, SHT.36					MGC	19 MAY 2008
SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE

SUPERSEDES	TITLE	INSTALLATION INSTRUCTIONS SUPRA 950 MULTI-TEMP	DRAWING NO. 98-03283 SHT. 5 OF	REV B
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1. FUEL PICK-UP TUBE INSTALLATION

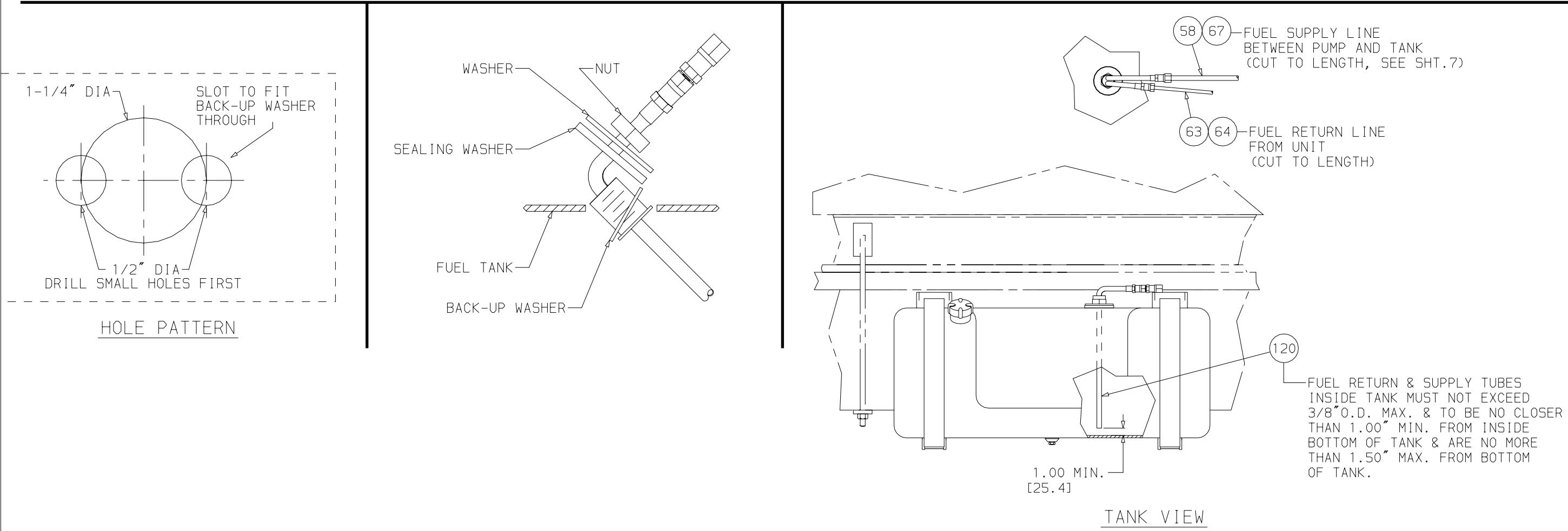
- A. DETERMINE THE DESIRED LOCATION FOR THE PICK-UP TUBES ON THE FUEL TANK. MAKE CERTAIN THAT THE LOCATION ADHERES TO THE FOLLOWING:
- LOCATION WILL ALLOW FOR THE FUEL LINE CONNECTIONS.
  - LOCATION DOES NOT INTERFERE WITH ANY OTHER CONNECTION(S), APPARATUS, INTERNAL Baffle OR OBSTRUCTION.
- B. REFER 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].



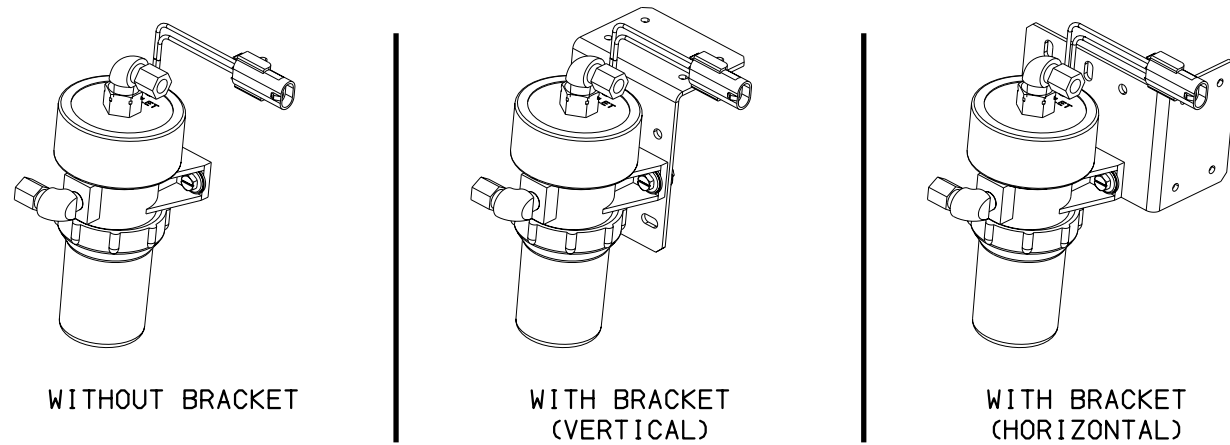
FUEL PICK-UP TUBE INSTALLATION

B	IN TANK VIEW, FOR ITEM 67: REV'D NOTE: ... (CUT TO LENGTH, SEE SHT.7) WAS (CUT TO LENGTH) PER IPCA71N2006P09, SHT.02					MGC	12 JAN 2009											
-	INITIAL RELEASE PER IPCA71N2006P07, SHT.76					MGC	30 NOV 2007											
SYM	REVISION RECORD	ENGRG.	DATE	APPLICATION ENGRG.	DATE	DRAWN BY	DATE											
										SUPERSEDES		TITLE		INSTALLATION INSTRUCTIONS SUPRA 950 MULTI-TEMP		DRAWING NO. 98-03283 SHT. 6 OF		REV B



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.

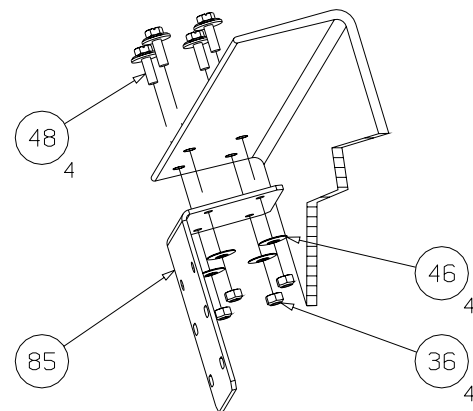


WITHOUT BRACKET

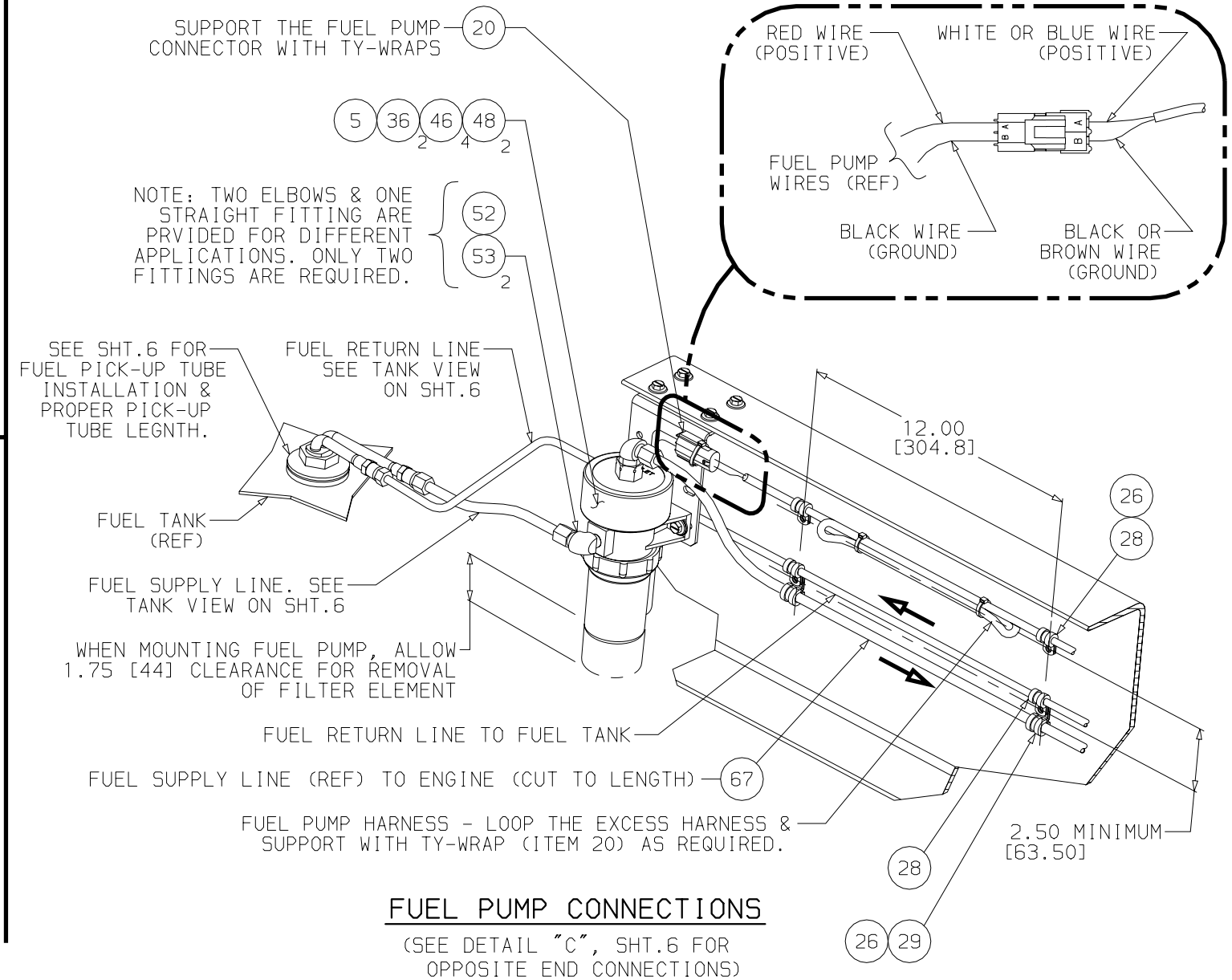
WITH BRACKET (VERTICAL)

WITH BRACKET (HORIZONTAL)

**PUMP MOUNTING OPTIONS**



**FUEL PUMP MOUNTING BRACKET**  
(OPTIONAL)



**FUEL PUMP CONNECTIONS**  
(SEE DETAIL "C", SHT.6 FOR OPPOSITE END CONNECTIONS)

**FUEL LINE ROUTING/ELECTRICAL CONNECTIONS**

A	ADDED FUEL PUMP MNTG BKT; REDRAWN FUEL PUMP CONN. VIEW PER IPCA71N2006P09, SHT.02					MGC	12 JAN 2009
-	INITIAL RELEASE PER IPCA71N2006P07, SHT.76					MGC	30 NOV 2007
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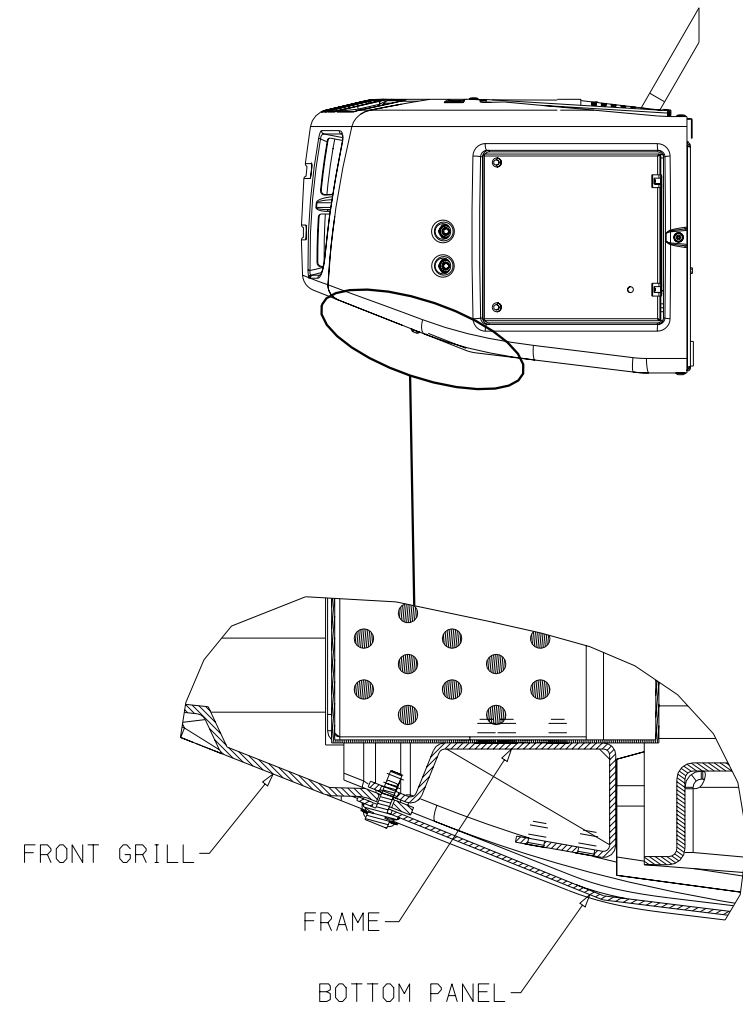
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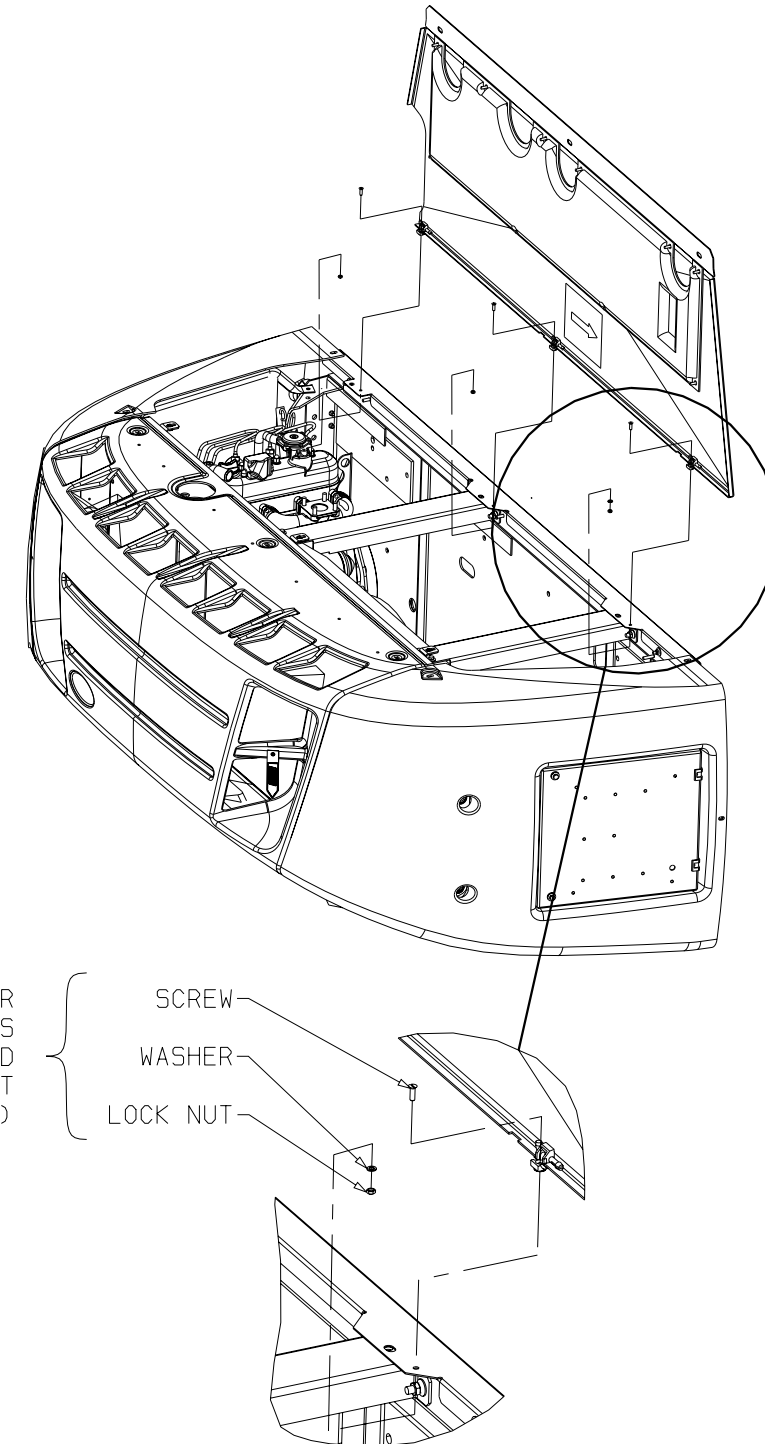
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FRONT GRILLE MUST BE MOUNTED  
BETWEEN FRAME AND BOTTOM PANEL



MOUNTING INSTRUCTION FOR OPTIONAL TOP PANEL



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

A	RENUMBERED SHT'S; SHT.8 WAS SHT.7; PER IPCA71N200GP08, SHT.36					MGC	19 MAY 2008
-	INITIAL RELEASE PER IPCA71N200GP07, SHT.76					MGC	30 NOV 2007
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SUPRA 950 MULTI-TEMP

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