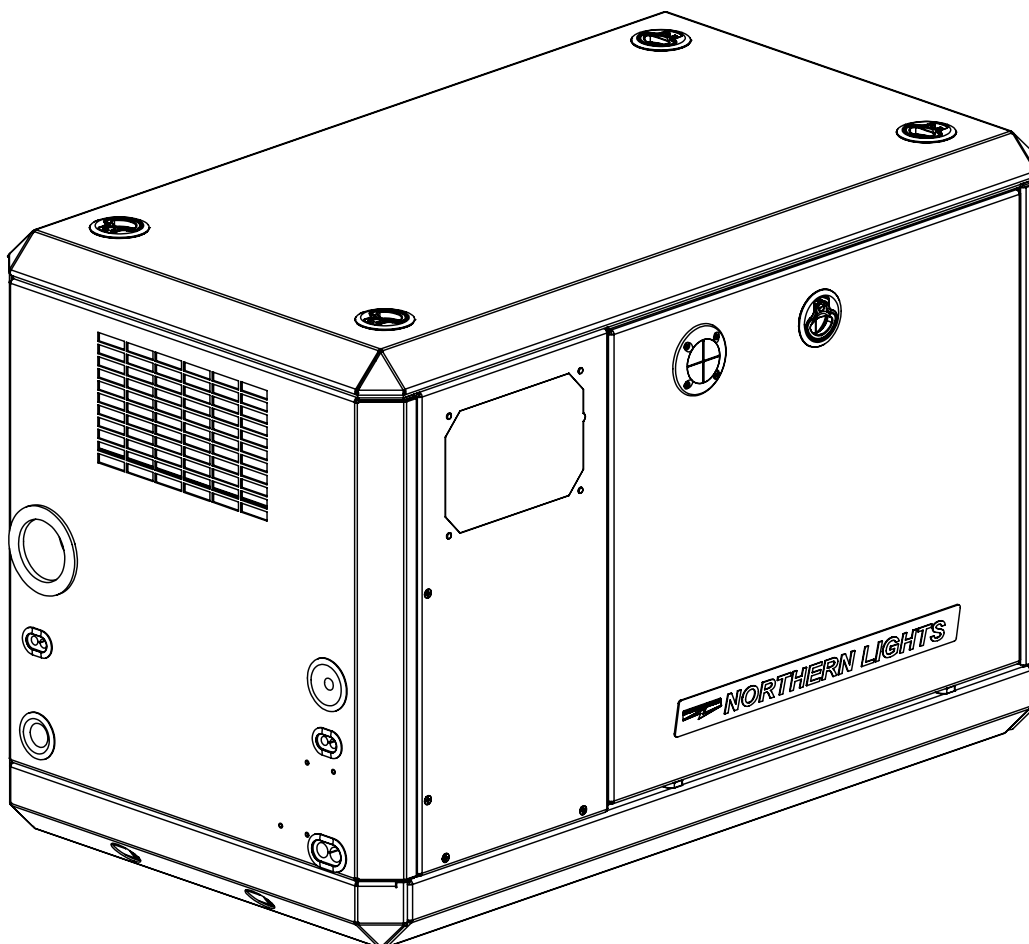




M843W3

GEM Series Sound Enclosure Assembly Instructions

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1419 W Newport Center Dr
Deerfield Beach, FL 33442
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19 Veterans Memorial Blvd.
Kenner, LA 70062
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M843NW3

GEM SERIES SOUND ENCLOSURE

ITEM	DESCRIPTION	NLI P/N	QTY	NOTES
1	JUNCTION BLOCK OFF PLATE ASSEMBLY	06-73111	1	
2	REAR PANEL ASSEMBLY	06-73102	1	Includes 06-73108
3	M8 FLAT WASHER	15-11000	4	Loose, bagged
4	M8 LOCK WASHER	15-00705	4	Loose, bagged
5	M8 HEX HEAD CAPSCREW	12-00776	4	Loose, bagged
6	1/4" NPT BRASS PIPE NIPPLE	21-00201	2	Loose, bagged
7	1/4" NPT BRASS PIPE CAP	21-72241	2	Loose, bagged
8	SOUND FOAM, SNORKEL RECEIVER SEAL	55-73174	1	Loose, bagged
9	BOTTOM SIDE VALENCE ASSEMBLY	06-73104	2	
10	FRONT BOTTOM VALENCE ASSEMBLY	06-73108	1	
11	NON-SERVICE SIDE PANEL ASSEMBLY	06-73107	1	
12	SERVICE SIDE PANEL AFT ASSEMBLY	06-73106	1	
13	FRONT PANEL ASSEMBLY	06-73101	1	
14	SEAL BAR ASSEMBLY	06-73110	1	
15	TOP PANEL ASSEMBLY	00-73103	1	
16	SERVICE SIDE PANEL, FWD ASSEMBLY	00-73105	1	
17	GROMMET 1-1/8" ID X 1-7/8" OD	00-70083	2	Loose, bagged

Specifications:

Enclosure (Installed on Generator Base):

Length (OA).....38.8 in (986 mm)

Width.....22.6 in (574 mm)

Height.....25.8 in (655 mm)

Assembled Weight:

43 lbs (19.5 kg) shield only

787 lbs (357 kg) with generator set

Prior to assembly, inspect all components for damage. Report any damage to the shipping company. Check the packing list in the back of this manual to be sure all parts are included.

Note: The Generator set features a single point lifting eye. However, the generator may still possess original factory lifting points, which need to be loosened and rotated down, until they are below the highest point of the engine. Be sure to retighten those bolts before moving on.

Select a mounting location in accordance with the guidelines in the IM1000 Installation Manual. The generator set must typically be mounted on a rigid, flat surface above a strong structure, such as the vessel's stringers, to minimize vibration transference to the hull.

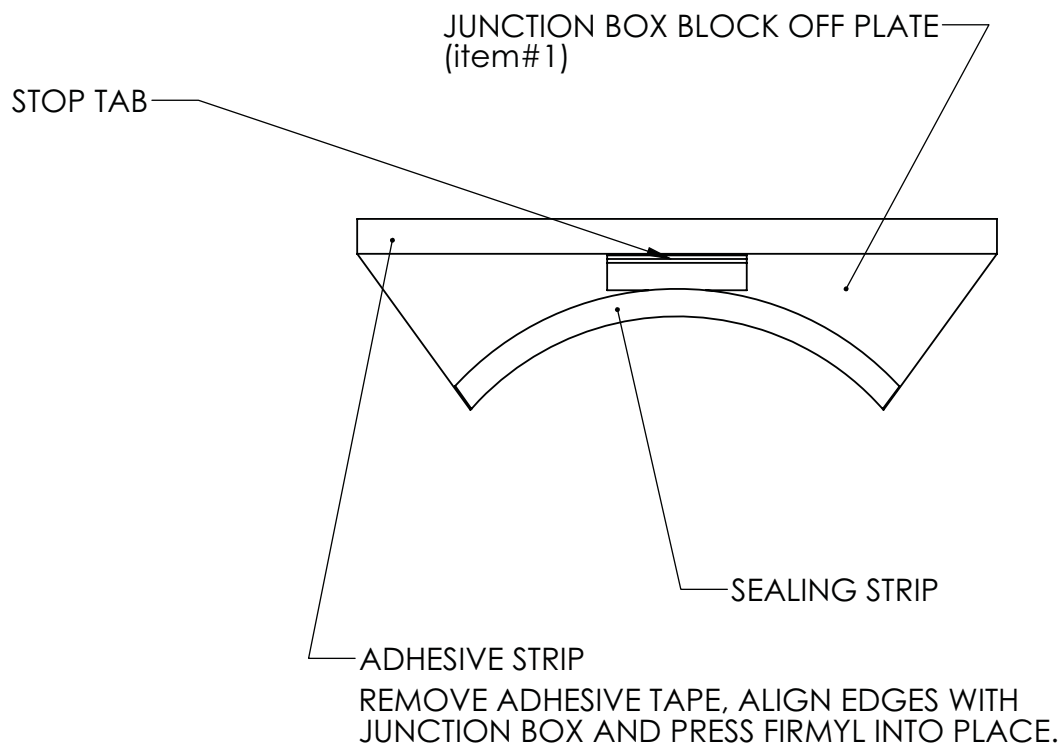
Note that the generator set is designed for single side service. When viewed from the rear, the right hand side is the service side and should be exposed for easy maintenance access.

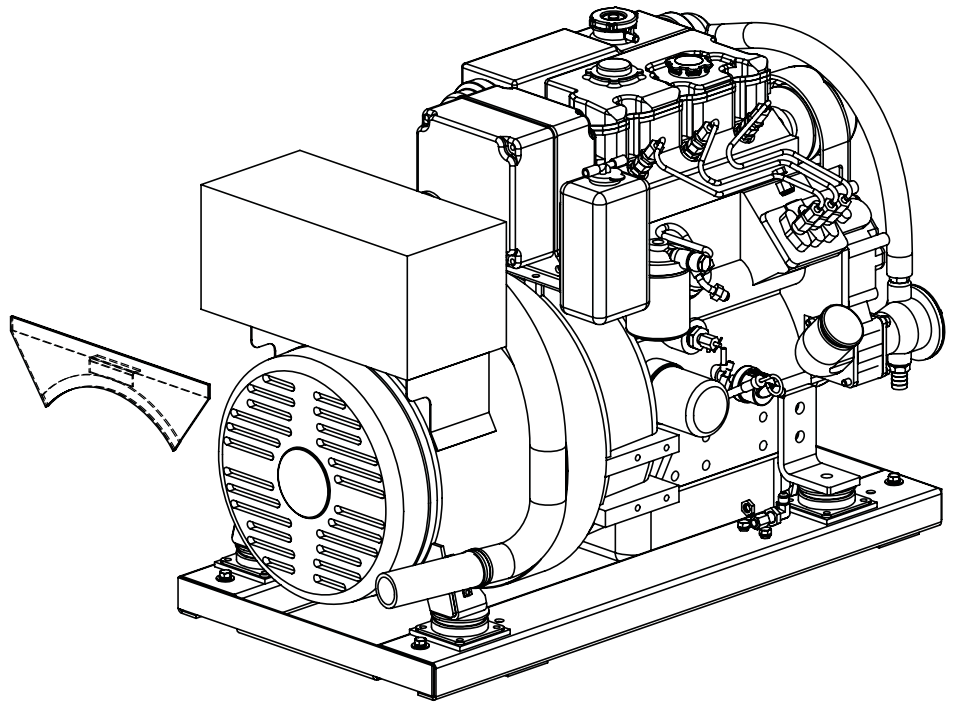
Install the generator set in the vessel as near to a level attitude as possible. Ensure that the enclosure's left hand side and rear are at the recommended distances (6 inch recommended, 4 inch minimum.) from the vessel's bulkheads.

AVOID POSITIONING THE ENCLOSURE INTO CORNERS WITH OVERHEAD BLOCKED TO REDUCE CHANCE OF INTAKE/EXHAUST AIR RECIRCULATION OUTSIDE THE SHIELD.

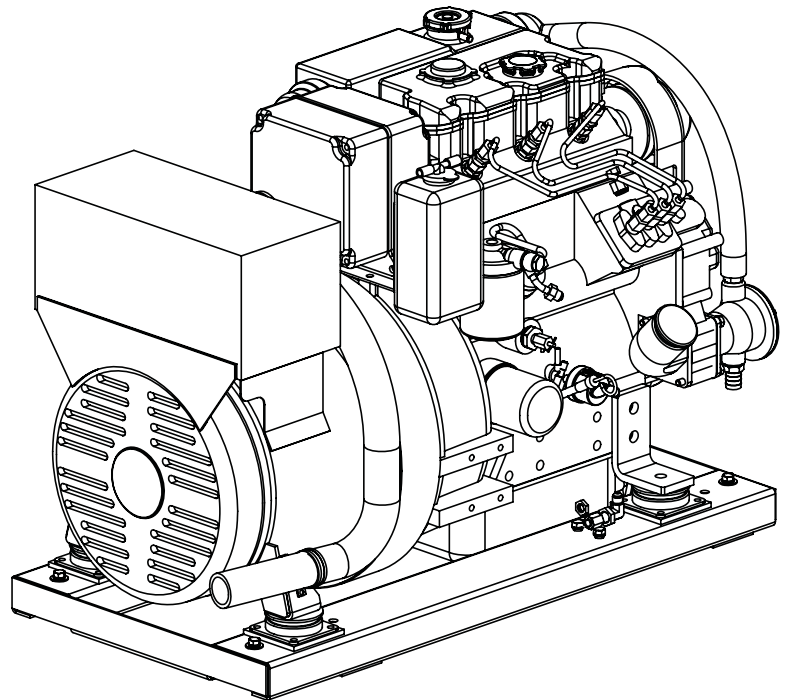


PRIOR TO SOUND SHIELD ASSEMBLY, START WITH ITEM #1 SHOWN IN THE FOLLOWING ILLUSTRATIONS.

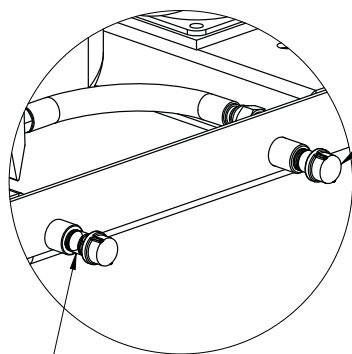




STOP TAB IS FLUSH
WITH BOTTOM OF
JUNCTION BOX



B

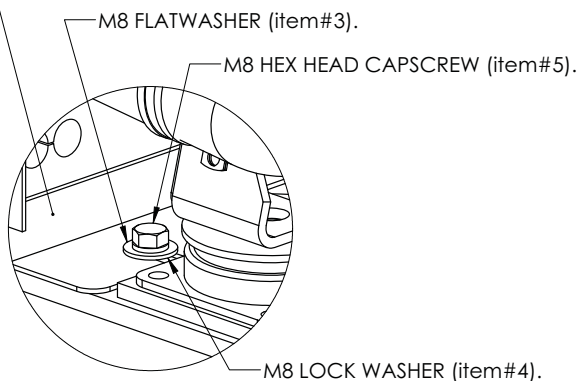


DETAIL A

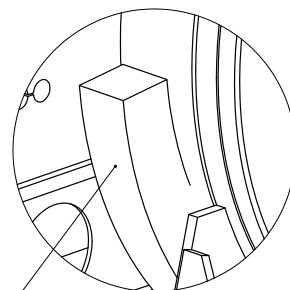
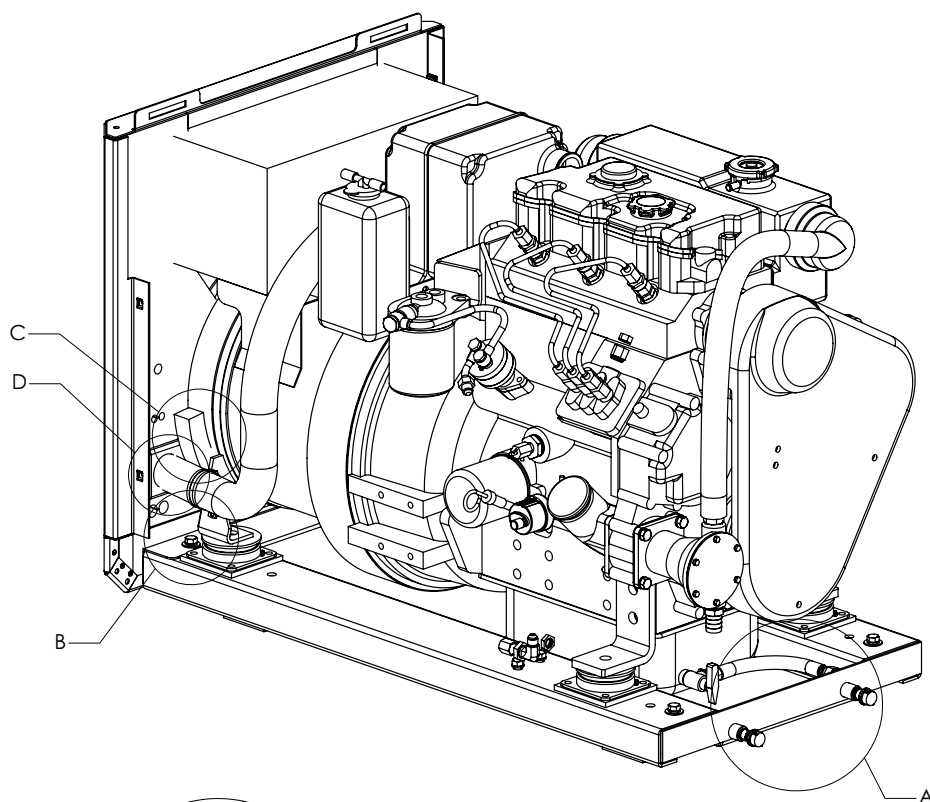
STEP 1.
INSTALL PIPE NIPPLES (item#6) TO FRONT OF BASE FRAME.
USE THREAD SEAL TAPE OR EQUIVALENT.

STEP 2.
INSTALL PIPE CAP (item#7).

STEP 3.
INSTALL REAR PANEL/LOWER REAR VALENCE ASSEMBLY (item#2)
TO BACK OF BASE FRAME. LOCATE MOUNTING TABS TO TAPPED
MOUNTING HOLES ON TOP OF BASE FRAME WITH FLAT WASHER,
LOCK WASHER, AND HEX HEAD CAPSCREW (items 3,4,5).

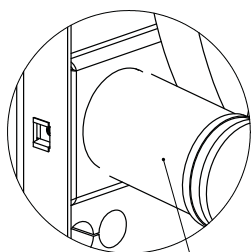


DETAIL B



DETAIL C

STEP 4.
INSTALL RECIEVER SEAL (item#8) TO REAR PANEL
AS SHOWN. ENSURE FIT IS SNUG TO GENERATOR
BARREL.



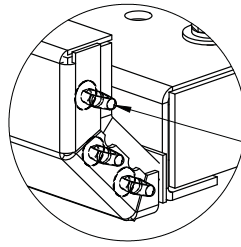
DETAIL D

STEP 5.
INSERT ENGINE AIR INTAKE SNORKEL
HOSE INTO SNORKEL RECIEVER IN REAR
PANEL, UNTIL IT HITS THE STOP.

You may encounter some resistance as the rear panel comes into contact with the air intake snorkel hose. Note that the rear panel has a small hole in the vicinity of the intake snorkel. Guide this hose so that it is inserted in the panel hole, ensure that the hose does not go too far into the rear panel, blocking the hose end. (Generally this hose will install without adjustment at the retaining clamp.)

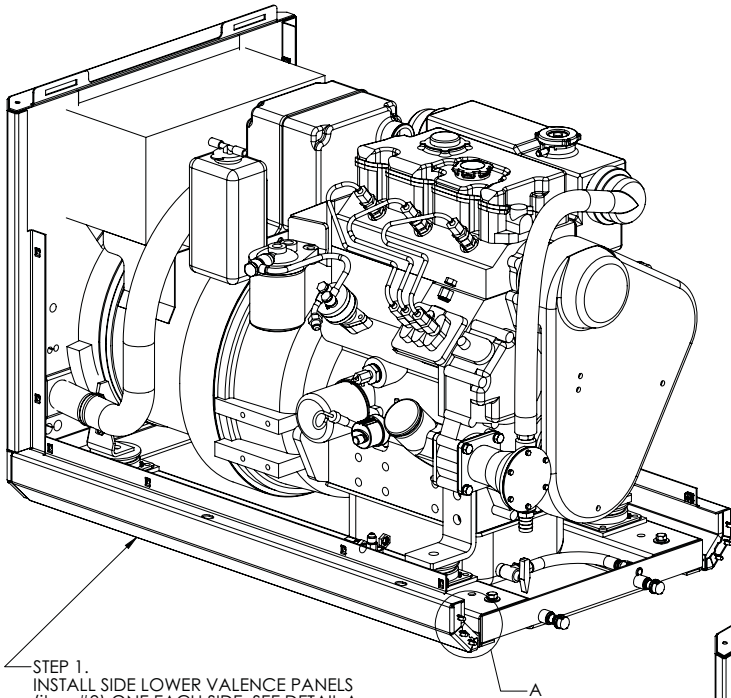
Note: The Generator set features a single point lifting eye. However, the generator may still possess original factory lifting points, which need to be loosened and rotated down, until they are below the highest point of the engine. Be sure to retighten those bolts before moving on.

C

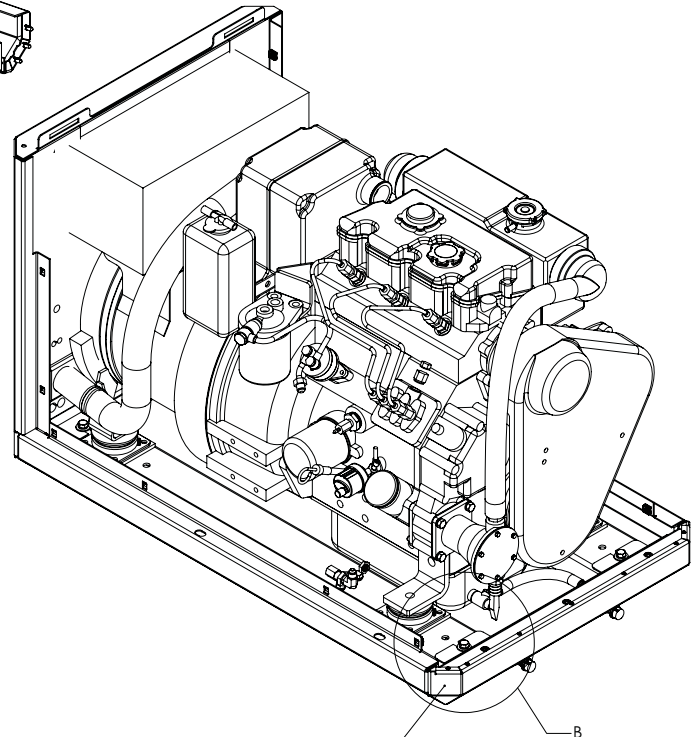


DETAIL A

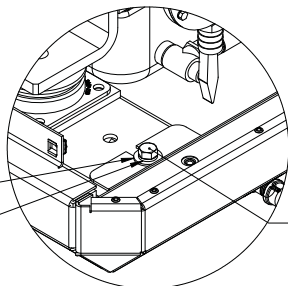
NOTE PRE-INSTALLED PINS.
GUIDE THESE INTO CORRESPONDING HOLES
IN EACH FRONT/REAR LOWER VALENCE, PUSHING
FIRMLY TO SNAP INTO PLACE. DISPLACED PINS MAY
BE PUSHED BACK INTO POSITION BY USING A LONG
TOOL SUCH AS SCREW DRIVER OR PRY BAR FROM
THE INSIDE. PUSH/MOVE SOUND FOAM OUT OF THE
WAY FOR IMPROVED ACCESS TO PINS.



STEP 1.
INSTALL SIDE LOWER VALENCE PANELS
(item#9) ONE EACH SIDE. SEE DETAIL A.



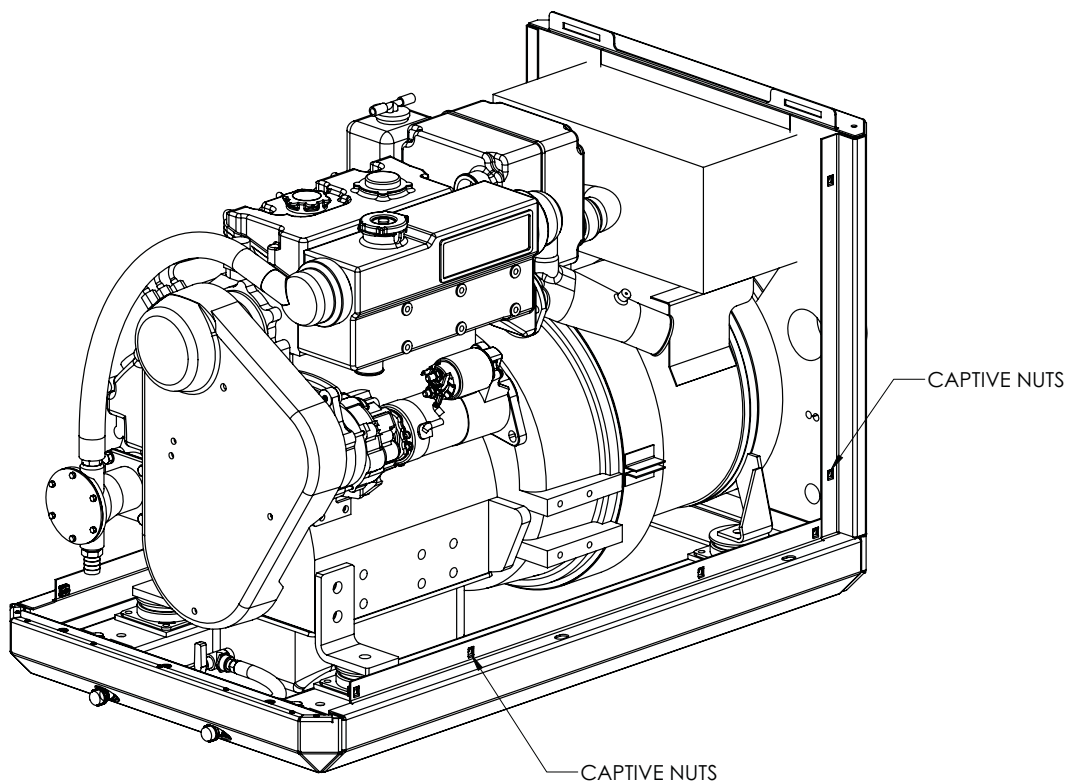
STEP 2.
INSTALL FRONT LOWER VALENCE (item#10)
TO THE FRONT OF THE BASE FRAME. ALIGN
TO PINS ON BOTH BOTTOM SIDE VALENCE
SEE DETAIL A.
LOCATE THE MOUNTING TABS TO THE
TAPPED HOLES ON THE TOP OF THE BASE FRAME.
SECURE WITH M8 FLAT WASHER, LOCK WASHER
AND HEX HEAD CAPSCREW. (items 3,4,5).
SEE DETAIL B.
TIGHTEN BOLTS TO SECURE.



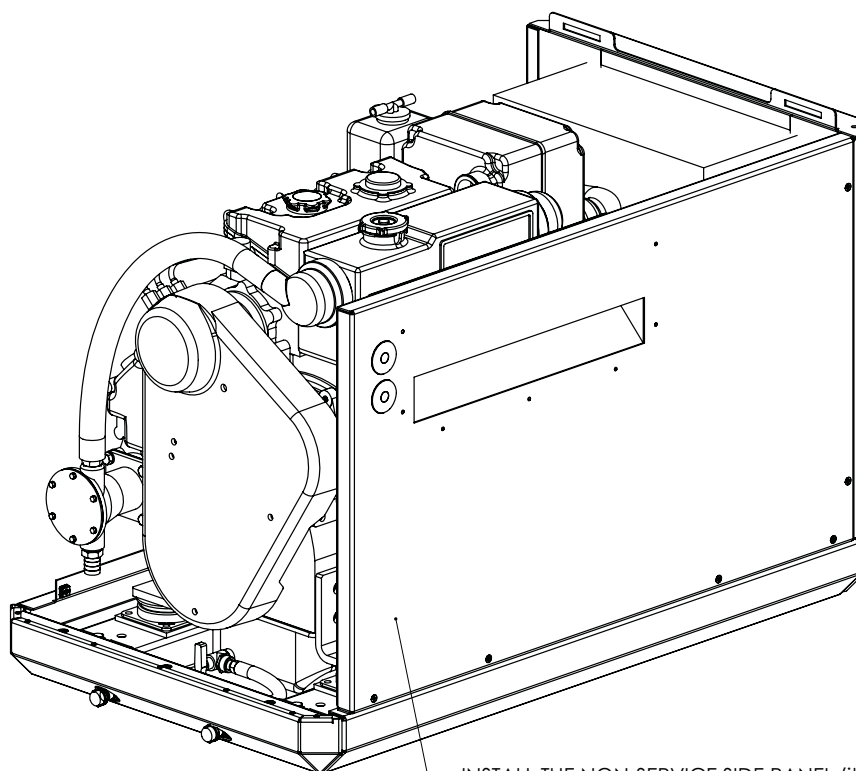
DETAIL B

M8 FLAT WASHER (item#3)
M8 LOCK WASHER (item#4)
M8 HEX HE. (item#5)

D



VIEW: NON-SERVICE SIDE

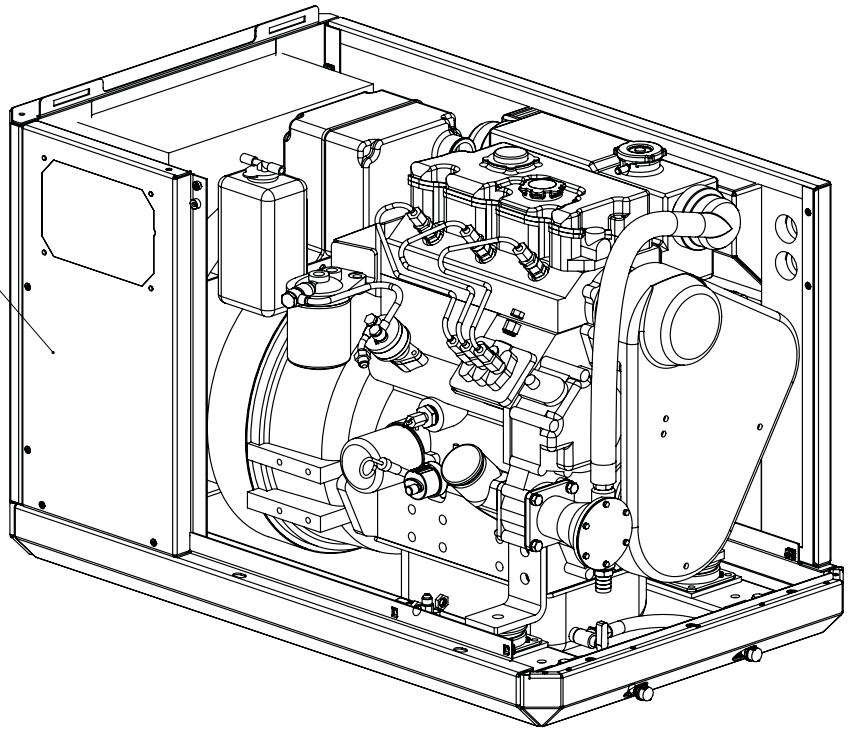


TIGHTEN WITH HAND TOOLS TO AVOID DAMAGE
TO HARDWARE.

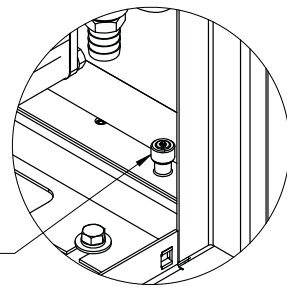
E

INSTALL SERVICE SIDE AFT PANEL ASSEMBLY (item#12).
LOCATE THE CAPTIVE SCREWS IN PANEL TO THE
CORRESPONDING CAPTIVE NUTS WITHIN THE LOWER
SIDE VALENCE AND REAR PANEL FLANGES.

TIGHTEN WITH HAND TOOLS TO AVOID DAMAGE
TO HARDWARE.

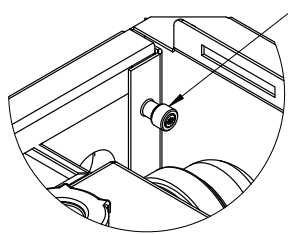
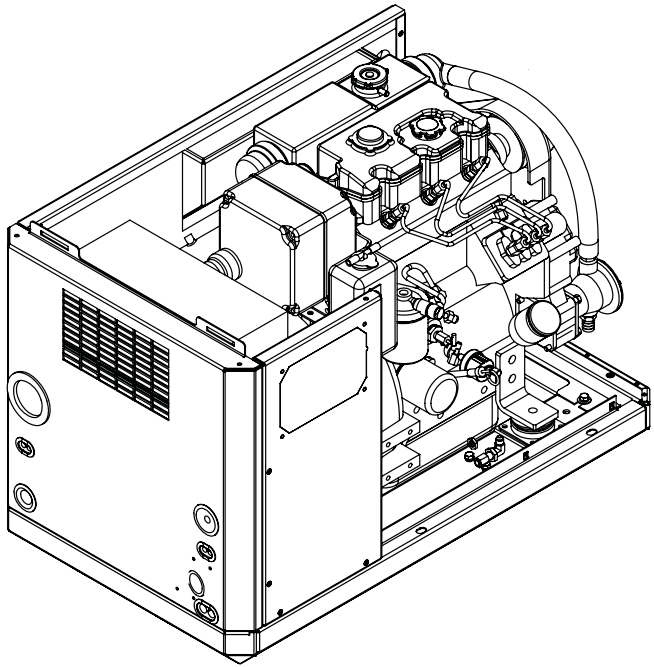


F



THREE LOWER CAPTIVE THUMBSCREWS

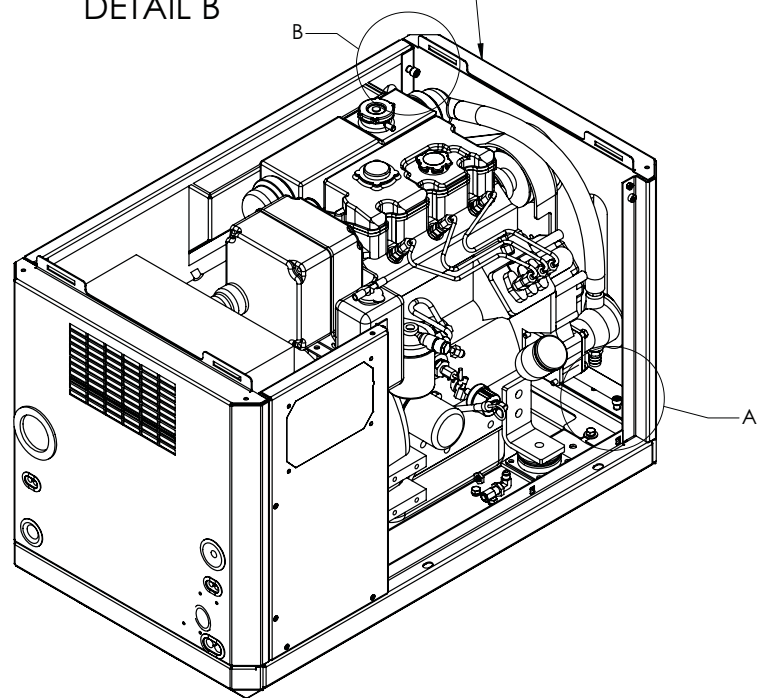
DETAIL A



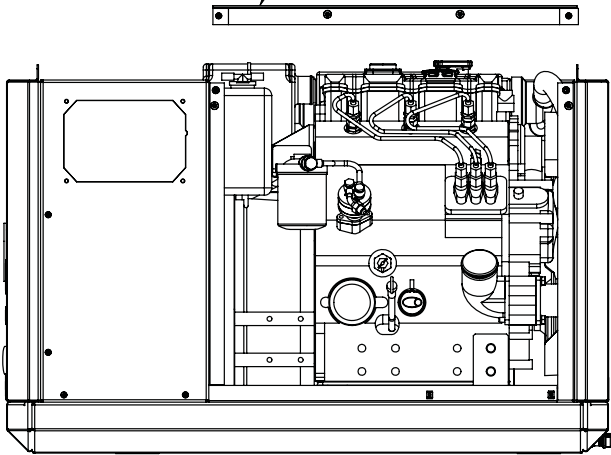
TWO UPPER CAPTIVE THUMBSCREWS

DETAIL B

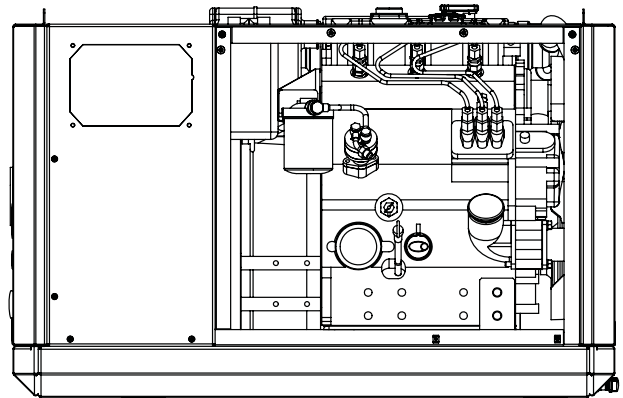
ATTACH FRONT PANEL ASSEMBLY (item#13).
SEE DETAILS A & B.
POSITION PANEL AS SHOWN AND HAND TIGHTEN
CAPTIVE THUMBSCREWS TO ENGAGE AND SECURE
PANEL TO THE SIDE AND FRONT LOWER VALENCE
PANEL FLANGES.



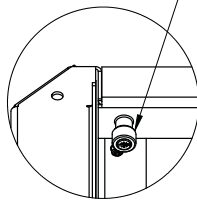
SEAL BAR ASSEMBLY (item#14).



POSITION THE SEAL BAR ASSEMBLY

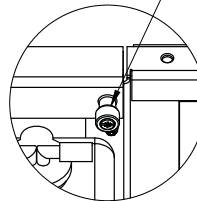


SEAL BAR INSTALLED



CAPTIVE THUMBSCREW
FORWARD POSITION.

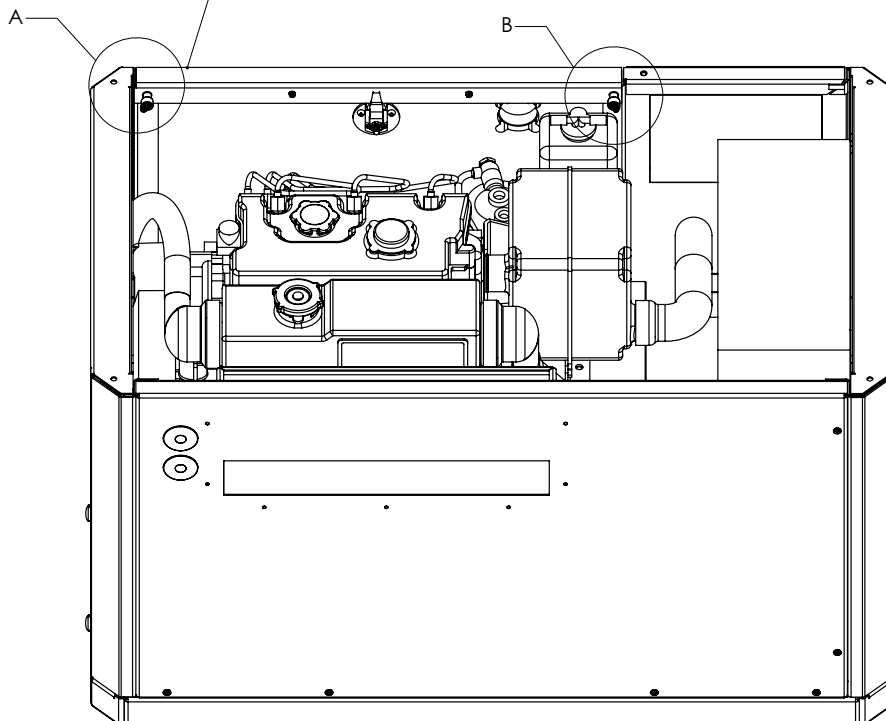
DETAIL A



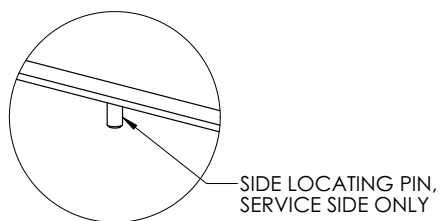
CAPTIVE THUMBSCREW
AFT POSITION.

DETAIL B

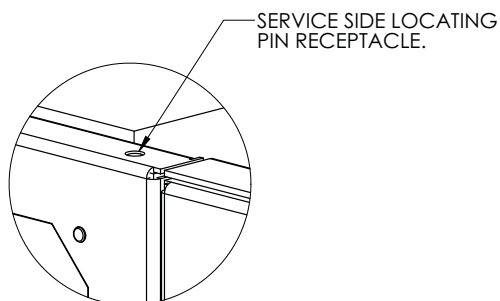
INSTALL SEAL BAR ASSEMBLY TO PRESSED IN NUT POINTS AT FRONT PANEL
AND SERVICE SIDE AFT PANEL FLANGES. HALF TIGHTEN THUMBSCREWS
FROM THE INTERIOR SIDE OF THE SHIELD.



H



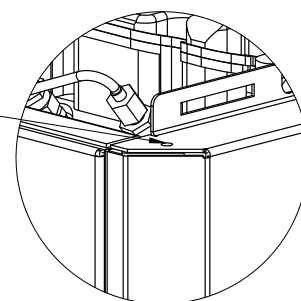
DETAIL A



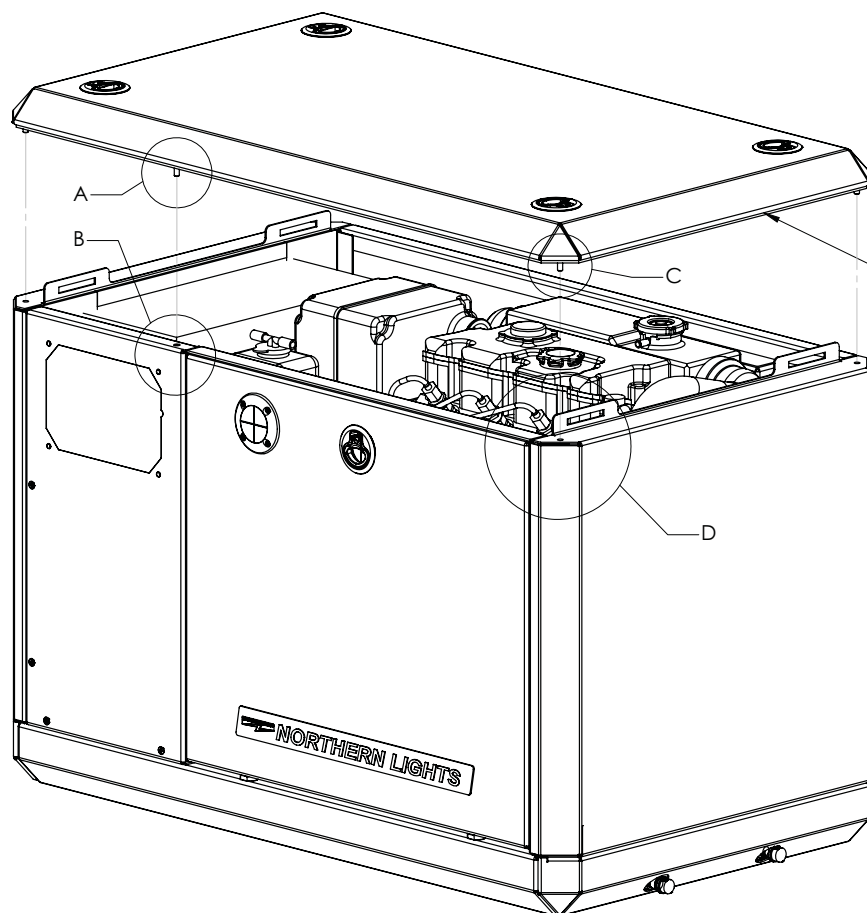
DETAIL B



DETAIL C



DETAIL D

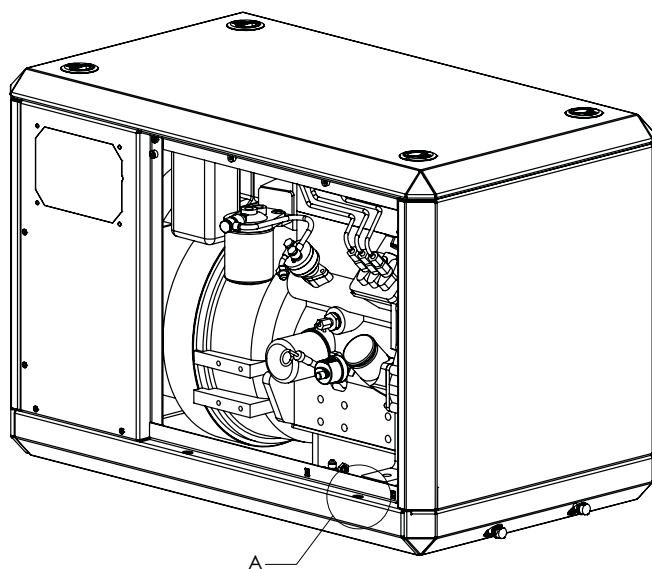


CORNER LOCATING PIN RECEPTACLE,
4 PLACES

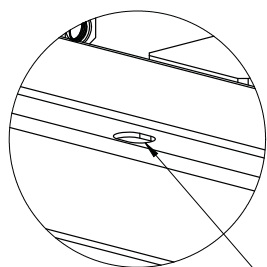
TOP PANEL ASSEMBLY (item#15).

NOTE LOCATING PIN POSITIONING
TO DETERMINE CORRECT PANEL
ORIENTATION. SEE DETAILS A,B,C,D.
SHOULD RING LATCH PAWL NEED
ADDITIONAL ADJUSTMENT, USE A
13mm WRENCH.

I

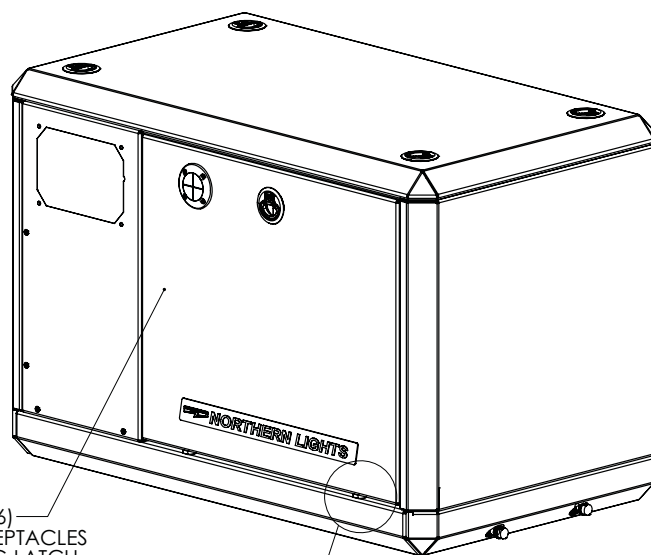


A



LOCATOR PIN RECEPTACLE

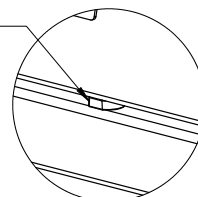
DETAIL A



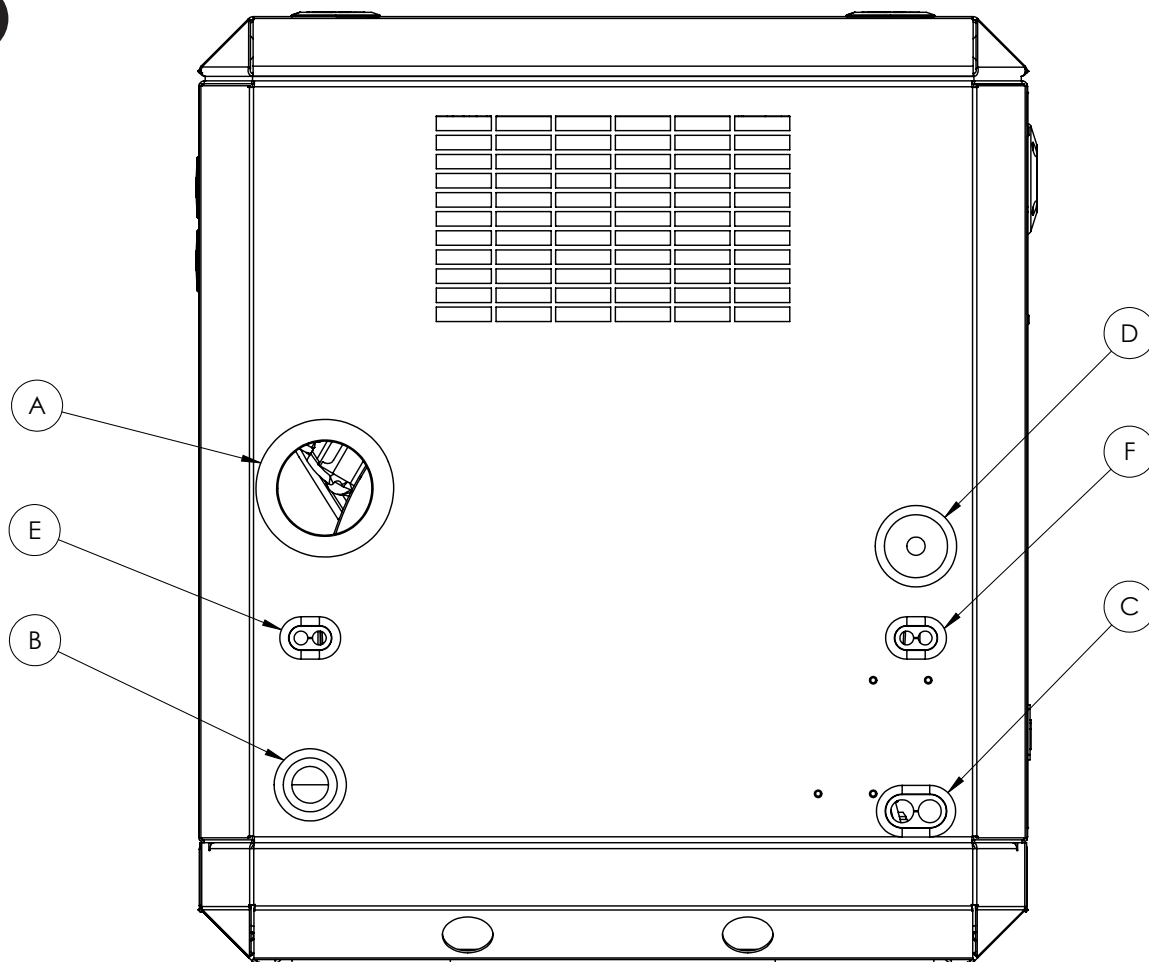
B

SERVICE SIDE PANEL ASSEMBLY (item# 16)
INSTALL PANEL INTO LOCATOR PIN RECEPTACLES
(SEE DETAIL A,B) AND SECURE WITH RING LATCH.
PANEL LATCH IS PRE-ADJUSTED AT FACTORY.
IF ADDITIONAL PAWL ADJUSTMENT IS NEEDED,
USE A 13mm WRENCH.

LOCATOR PIN (ENGAGED) ON SERVICE SIDE PANEL ASSEMBLY, 2 PLACES



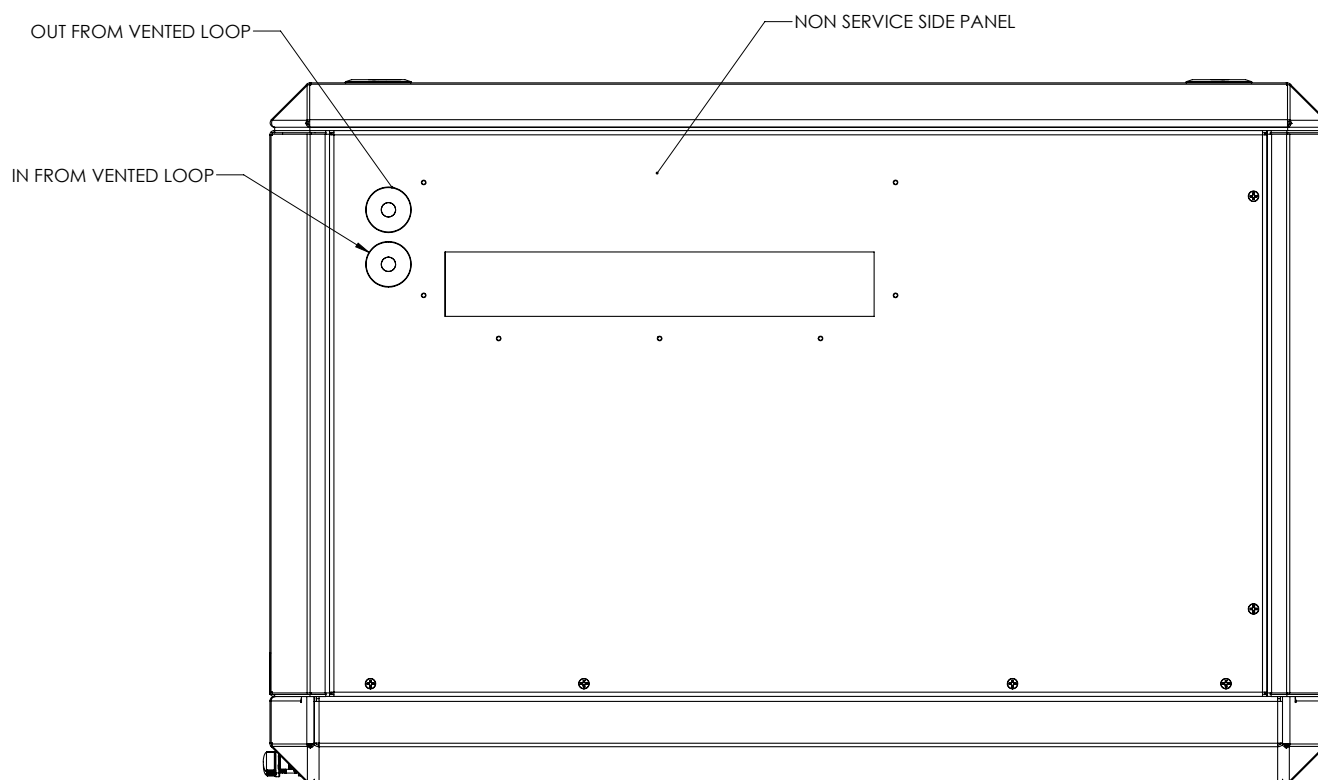
DETAIL B

J

Install connections for exhaust, AC power leads, DC Control panel leads, battery and water through holes in the rear panel as shown above and described below:

- a. Connect the genset 2" OD exhaust outlet to the exhaust system of the vessel.
- b. Connect the sea water pump to the vessel's water inlet. Push a 3/4" hose from the vessel's sea water strainer through the lower hole at the bottom left of the rear panel to the sea water pump inlet fitting.
- c. Connect the vessel's fuel lines using Coast Guard approved rubber fuel hoses to the fuel manifold inside the sound shield. The outer fitting is 5/16" 37T JIC fuel suction, and the fitting is 1/4" 37T JIC fuel return.
- d. Connect the DC control harness to the engine harness plug. Pass the harness and plug through the hole at the mid-section of the right side of the rear panel.
- e. Connect the battery leads to the generator set passing the two leads through the second hole above the bottom left side of the rear panel.
- f. Connect the AC output leads from the generator to the vessel's power distribution panel. Pass the two leads through the middle hole on the right side of the rear panel.

Note: This unit features new, non-displaceable penetration grommeting for the AC, DC, and battery cables. Therefore, the fit will be snug.

K

IF YOU HAVE CHOSEN TO INSTALL A SIPHON BREAK:

Note the pre-installed penetration point in the upper left corner of the non-service side panel. Reference the plumbing diagram in the mounting and exhaust sections of the IM1000 installation manual.

Remove the white plastic hole plugs by pushing them out from the inside and replace with the two rubber grommets (item 17) provided.

CAUTION: GENERATOR SETS WITH WET EXHAUST THAT ARE INSTALLED NEAR OR BELOW THE VESSEL'S WATER LINE MUST USE A SIPHON BREAK TO PREVENT BACKFLOW OR WATER INTO THE ENGINE. THIS BACKFLOW CAN RUIN AN ENGINE AND POSSIBLY SINK THE VESSEL.

- Disconnect the hose from the seawater pump output and from the rubber elbow on the expansion tank. Install two lengths of 3/4" hose. The hoses must be of adequate length to allow mounting of a siphon break, a minimum of 12 inches above the vessel's loaded water line.
- Pass the seawater pump output hose through the top hole in the panel. The hose from the expansion tank must go through the bottom hole in the panel.
- For more information, see the "Exhaust" section of IM1000 Installation Manual.

M843NW3 SOUND SHIELD PACKING LIST

ITEM	DESCRIPTION	NLI P/N	QTY	PACKED
1	JUNCTION BLOCK OFF PLATE ASSEMBLY	06-78110	1	<input type="checkbox"/>
2	REAR PANEL ASSEMBLY, Includes 06-73108	06-73102	1	<input type="checkbox"/>
9	BOTTOM SIDE VALENCE ASSEMBLY	06-73104	2	<input type="checkbox"/>
10	FRONT BOTTOM VALENCE ASSEMBLY	06-73108	1	<input type="checkbox"/>
11	NON-SERVICE SIDE PANEL ASSEMBLY	06-73107	1	<input type="checkbox"/>
12	SERVICE SIDE PANEL AFT ASSEMBLY	06-73106	1	<input type="checkbox"/>
13	FRONT PANEL ASSEMBLY	06-73101	1	<input type="checkbox"/>
14	SEAL BAR ASSEMBLY	06-73110	1	<input type="checkbox"/>
15	TOP PANEL ASSEMBLY	00-73103	1	<input type="checkbox"/>
16	SERVICE SIDE PANEL, FWD ASSEMBLY	00-78105	1	<input type="checkbox"/>

HARDWARE BAG:

3	M8 FLAT WASHER	15-11000	4	Loose	<input type="checkbox"/>
4	M8 LOCK WASHER	15-00705	4	Loose	<input type="checkbox"/>
5	M8 HEX HEAD CAPSCREW	12-00776	4	Loose	<input type="checkbox"/>
6	1/4" NPT BRASS PIPE NIPPLE	21-00201	2	Loose	<input type="checkbox"/>
7	1/4" NPT BRASS PIPE CAP	21-72241	2	Loose	<input type="checkbox"/>
8	SOUND FOAM, SNORKEL RECEIVER SEAL	55-78174	1	Loose	<input type="checkbox"/>
17	GROMMET, 1-1/8" ID x 1-7/8" OD	00-70083	2	Loose	<input type="checkbox"/>

Packed By: _____

Date: _____