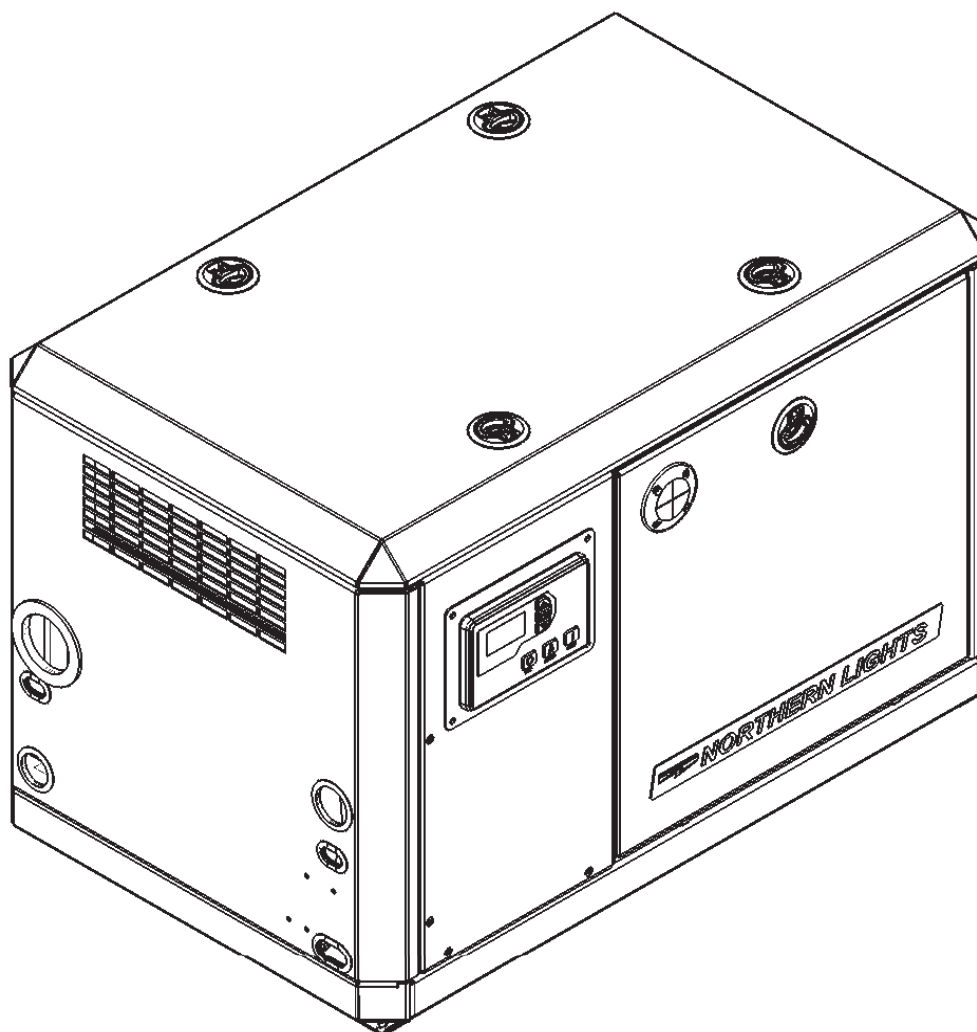




M773LW3

GEM Series Sound Enclosure Assembly Instructions

**Corporate Headquarters**

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M773LW3 GEM SERIES SOUND ENCLOSURE

ITEM	DESCRIPTION	NLI P/N	QTY	NOTES
1	JUNCTION BLOCK OFF PLATE ASSEMBLY	06-78632	1	
2	REAR PANEL ASSEMBLY	06-78602	1	
3	1/4-20 x 3/4" HEX HEAD CAPSCREW, S/S	12-30111	3	
4	1/4" EXTERNAL STAR WASHER, S/S	15-09103	3	
5	REAR BOTTOM VALENCE ASSEMBLY	06-78608	1	
6	BOTTOM SIDE VALENCE ASSEMBLY	06-78611	2	
7	NYLON BUMPER/RIVET	11-467	12	
8	FRONT BOTTOM VALENCE ASSEMBLY	06-78613	1	
9	NON-SERVICE SIDE PANEL ASSEMBLY	06-78606	1	
10	FRONT PANEL ASSEMBLY	06-78601	1	
11	SERVICE SIDE PANEL ASSEMBLY, AFT	06-78604	1	
12	SEAL BAR ASSEMBLY	06-78614	1	
13	TOP PANEL ASSEMBLY	06-78605	1	
14	SERVICE SIDE PANEL ASSEMBLY, FWD	06-78603	1	
15	GROMMET 1-1/8" ID x 1-7/8" OD	00-70083	2	

Specifications:

Enclosure (Installed on Generator Base):

Length (OA).....35 in (889 mm)

Width.....22.0 in (559 mm)

Height.....24.3 in (618 mm)

Assembled Weight:

43 lbs (19.5 kg) shield only

580 lbs (263 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.

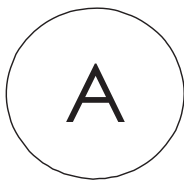
Note: The Generator set features a single point lifting eye. However, the generator may still possess original factory lifting points, which will need to be loosened and rotated down, until they are below the highest point of the engine. Be sure to retighten those bolts before moving on.

Select a mounting location in accordance with the guidelines in the IM1000 Installation Manual (supplied with the generator set). 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.

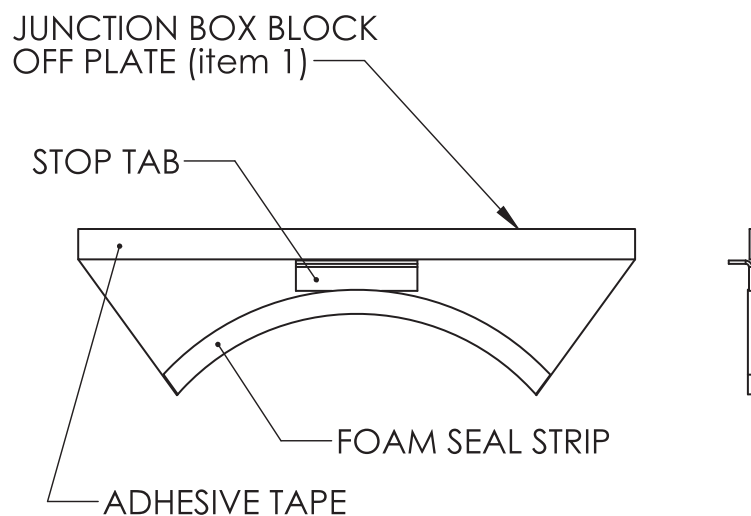
Note that the generator set is designed for single side service. When viewed from the rear, the right hand side is the service side and should be exposed for easy maintenance access.

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.

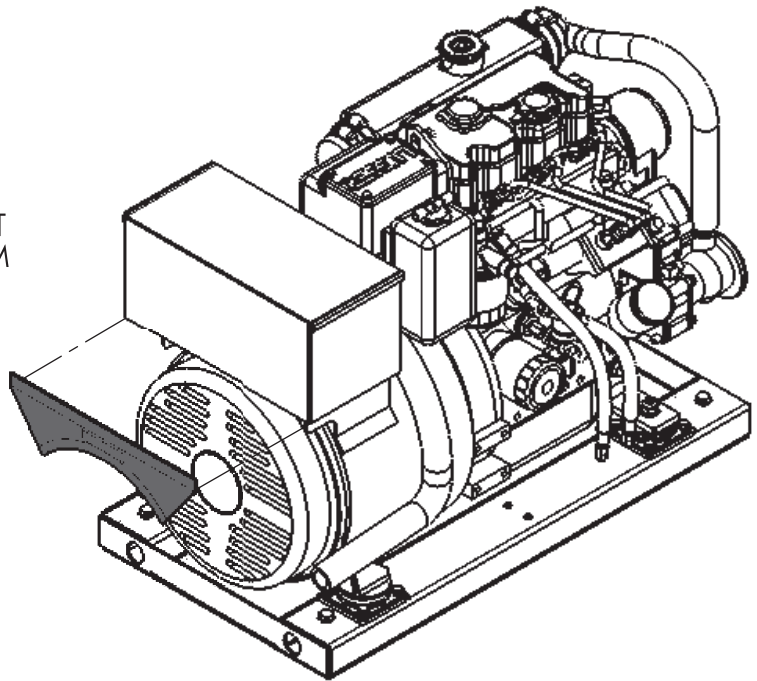
AVOID POSITIONING THE ENCLOSURE INTO CORNERS WITH OVERHEAD BLOCKED TO REDUCE CHANCE OF INTAKE/EXHAUST AIR RECIRCULATION OUTSIDE THE SHIELD.



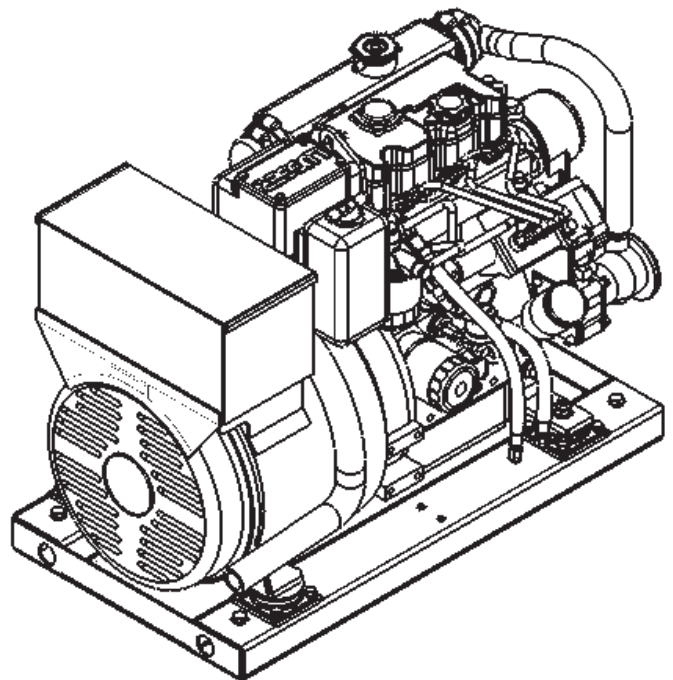
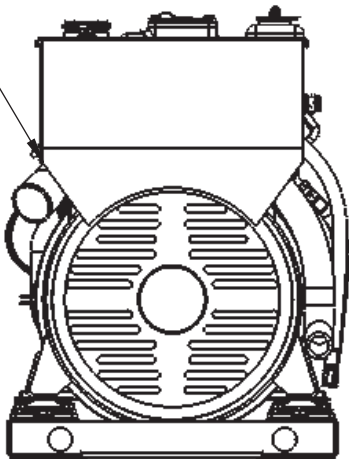
PRIOR TO SOUND SHIELD ASSEMBLY, START WITH ITEM #1 INSTALLATIONS SHOWN IN FOLLOWING ILLUSTRATIONS. NUMBERS INDICATE ASSEMBLY SEQUENCE.



TOP OF STOP TAB MUST
BE FLUSH WITH BOTTOM
OF JUNCTION BOX

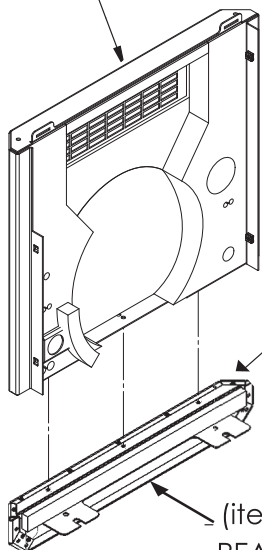


REMOVE ADHESIVE BACKING FROM
ADHESIVE TAPE AND ALIGN EDGES
OF BLOCK OFF PLATE WITH EDGES
OF JUNCTION BOX AND PRESS FIRMLY
INTO PLACE



B

(item 2)
REAR PANEL

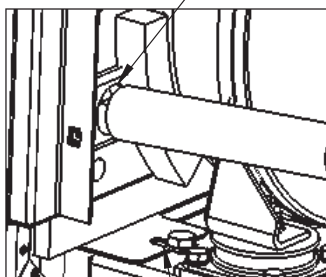


①

MOUNT REAR PANEL TO
REAR LOWER VALENCE
WITH 1/4-20" HEX HEAD
CAP SCREW (item 3) QTY: 3
1/4" EXTERNAL STAR WASHER
(item 4) QTY: 3

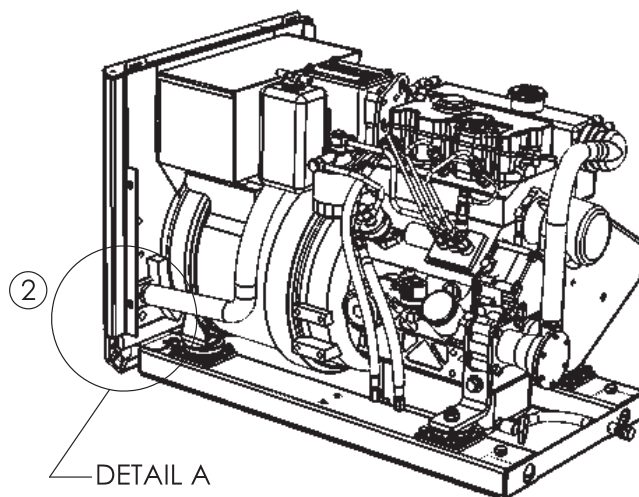
(item 5)
REAR LOWER VALENCE

VERIFY THAT SNORKEL HOSE ALIGNS
WITH SNORKEL PORT. FEED HOSE INTO
PORT APPROX 0.5"

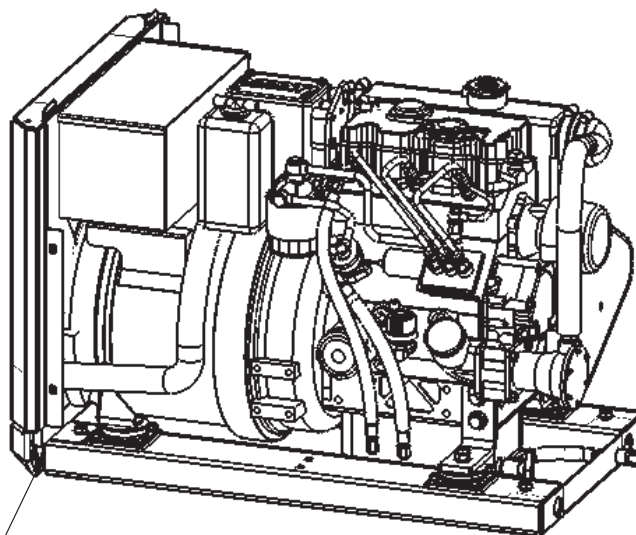


DETAIL A

VALENCE MOUNTING TABS TO
ENGAGE WITH REAR BASE FRAME
MOUNTING BOLTS. WASHER MUST
BE ON TOP OF TAB.



DETAIL A



ENSURE REAR LOWER VALENCE
FITS TIGHT TO BASE FRAME.
FIRMLY TIGHTEN BASE FRAME
MOUNTING BOLTS.

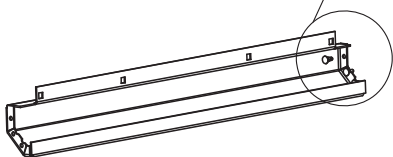
You may encounter some resistance as the rear panel comes into contact with the intake air snorkel hose. Note that the rear panel has a small hole in the vicinity of the intake snorkel. Guide this hose so that it is inserted within the panel hole, ensure that the hose does not go too far into the rear panel so that the hose end is blocked.

(Generally this hose will install without adjustment at the retaining clamp.)

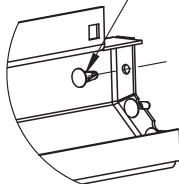
When making the intake air snorkel hose connection, it is important to ensure that the hose is not kinked or bent in such a way to restrict the engine's intake air flow. This arrangement is designed to allow the hose to follow it's natural path when properly installed into the rear panel. Some adjustment is possible by loosening either bolt of the snorkel hose's supporting bracket. Be sure to retighten any loosened bolt.

C

DETAIL B

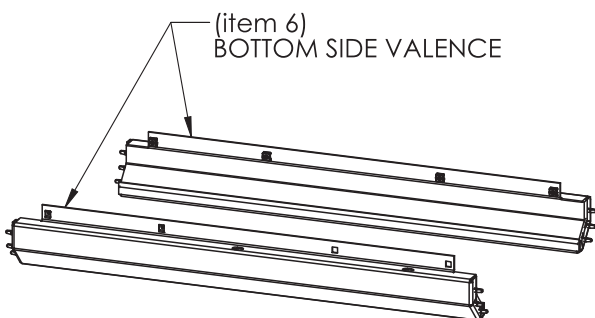


INSERT NYLON RIVETS (item 7)
PRIOR TO INSTALLING BOTTOM
SIDE VALENCE (item 6) QTY: 12

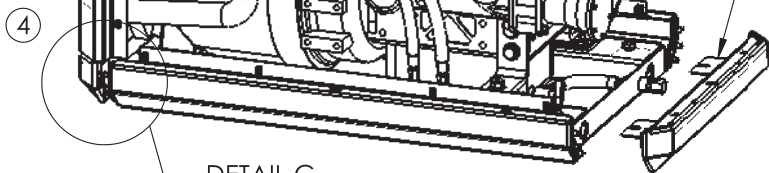
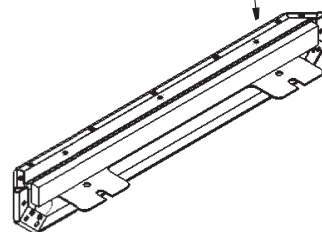


DETAIL B

(item 6)
BOTTOM SIDE VALENCE



(item 8)
BOTTOM FRONT VALENCE

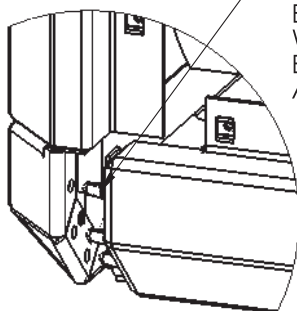


DETAIL C

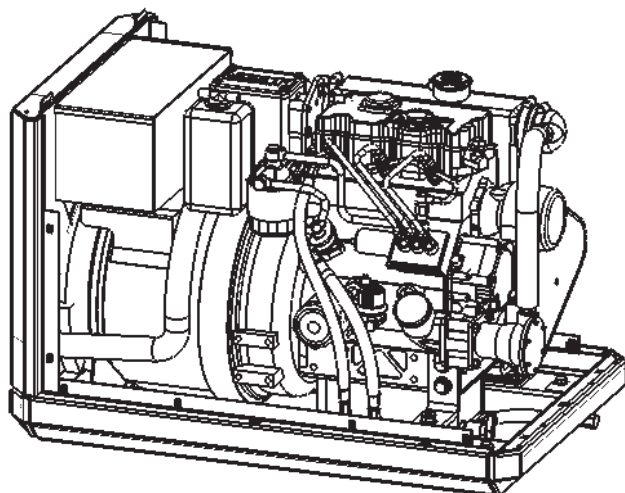
5

-ALIGN MATING HOLES ON BOTTOM FRONT
VALENCE WITH NYLON RIVETS ON BOTTOM
SIDE VALENCE AND SNAP INTO PLACE.
-ENSURE FRONT VALENCE MOUNTING TABS
ENGAGE WITH FRONT BASE FRAME MOUNTING
BOLTS WITH THE WASHER ON TOP OF THE TAB.
-ONCE FRONT AND SIDE VALENCE ARE SNUG,
FIRMLY TIGHTEN BASE FRAME MOUNTING BOLTS.

ALIGN NYLON RIVETS ON
BOTTOM SIDE VALENCE
WITH MATING HOLES OF
BOTTOM REAR VALENCE
AND SNAP INTO PLACE.



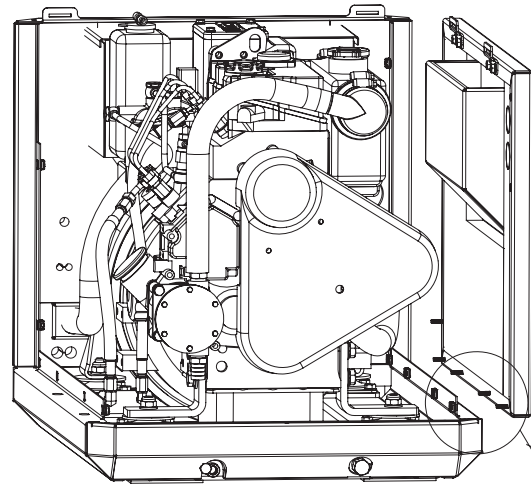
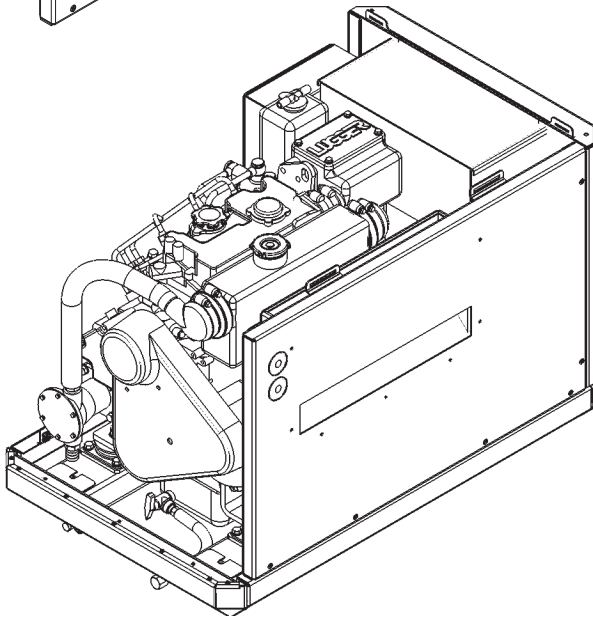
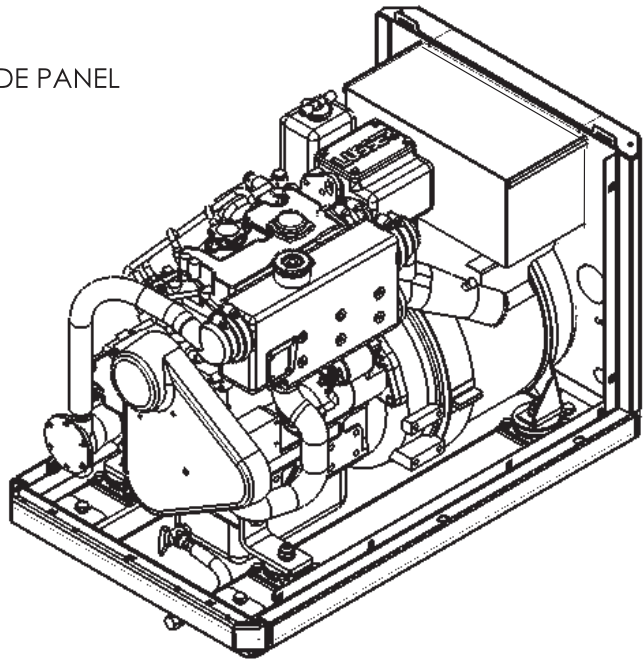
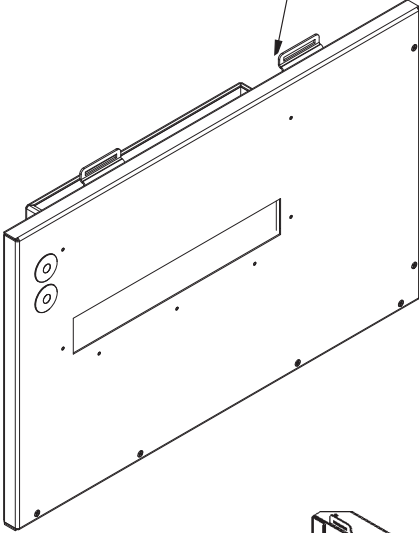
DETAIL C



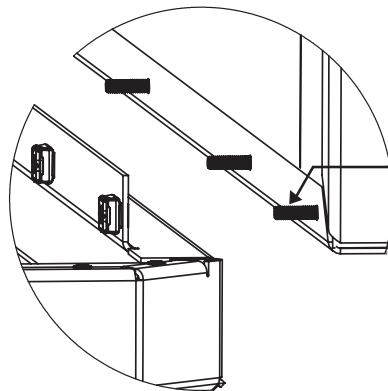
5

D

(item 9)
NON-SERVICE SIDE PANEL



DETAIL D

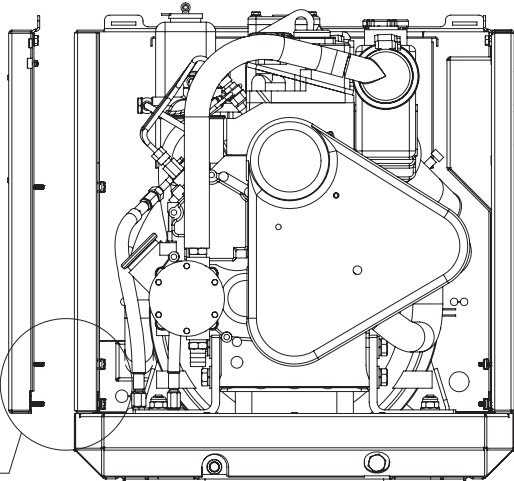
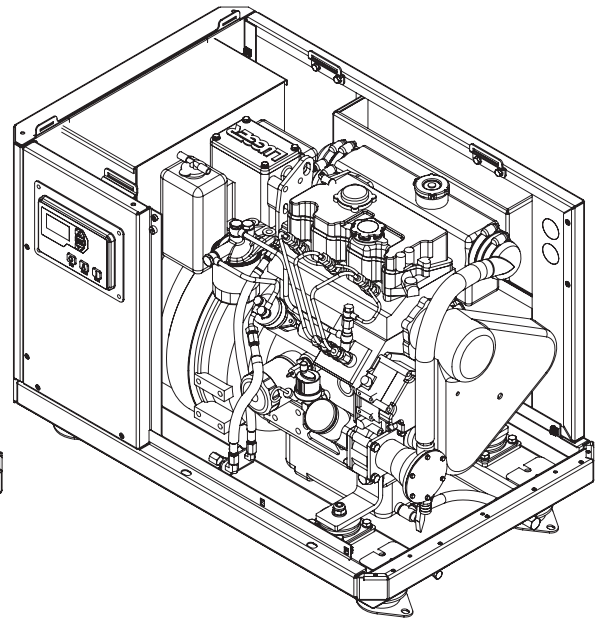
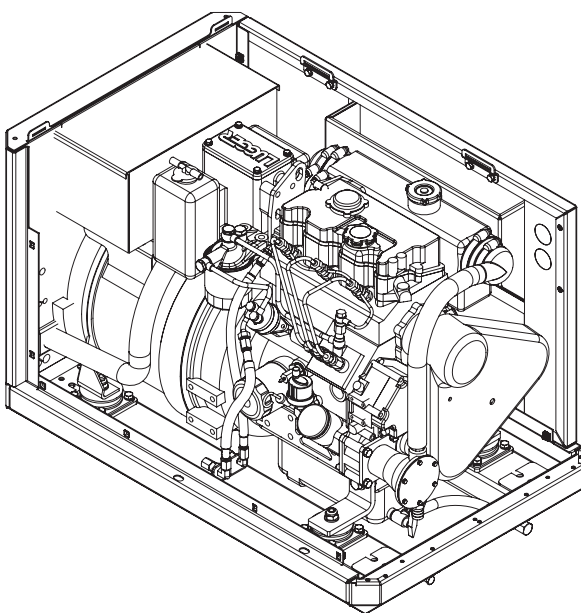
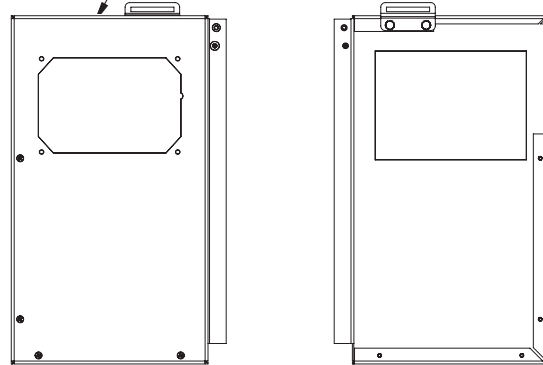


DETAIL D

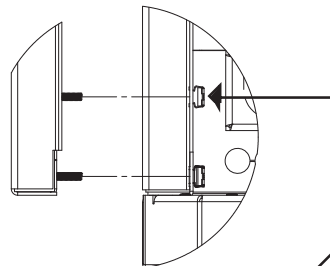
ALIGN THE CAPTIVE 10-32 MACHINE SCREWS ON THE PANEL WITH THE CAGED NUTS LOCATED ON THE BOTTOM SIDE VALENCE BY HAND INITIALLY. TIGHTEN WITH HAND TOOLS. USE OF POWER TOOLS MAY CAUSE DAMAGE TO HARDWARE.

E

(item 11)
SERVICE SIDE PANEL, AFT



DETAIL E

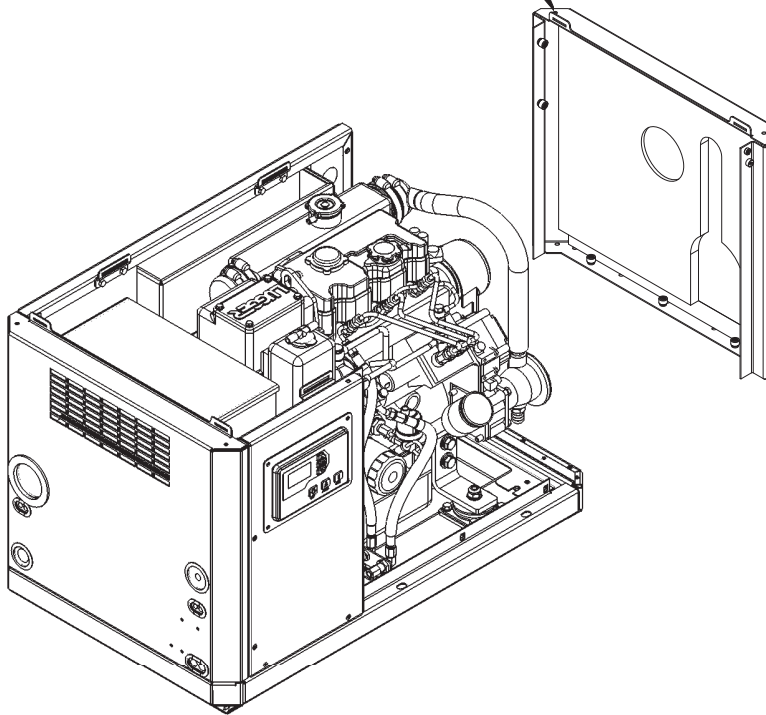


DETAIL E
SCALE 2 : 5

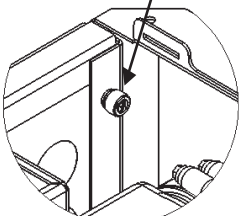
ALIGN 10-32 MACHINE SCREWS ON PANEL
WITH CAGED NUTS LOCATED ON REAR PANEL
AND BOTTOM SIDE VALENCE AND HAND
TIGHTEN INITIALLY. TIGHTEN WITH HAND TOOLS.
USE OF POWER TOOLS MAY CAUSE DAMAGE
TO HARDWARE.

F

(item 10)
FRONT PANEL

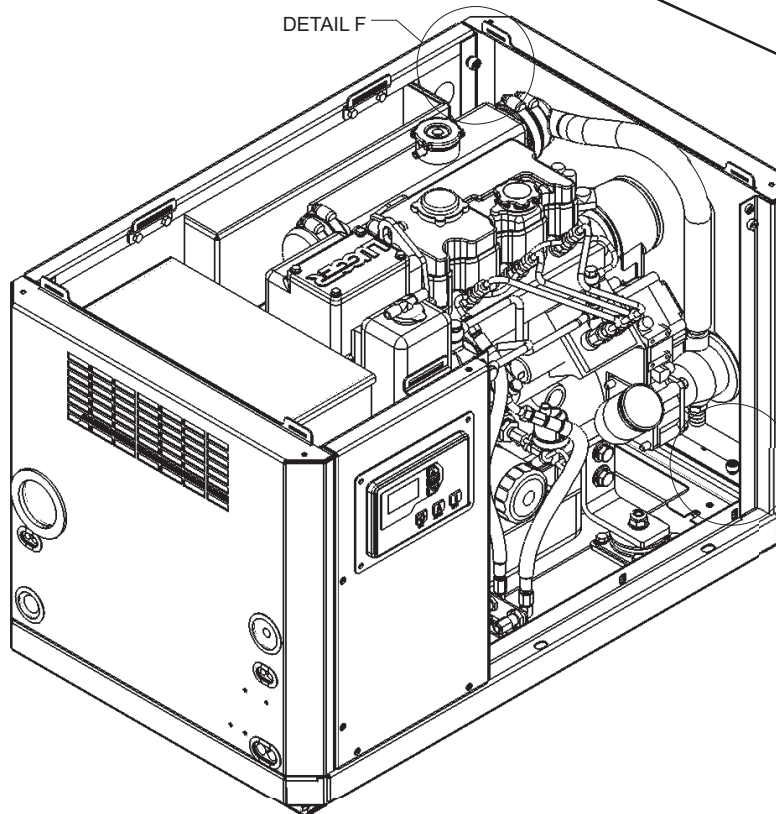


ALIGN CAPTIVE THUMB SCREWS ON FRONT PANEL
WITH CAGED NUTS LOCATED ON NON-SERVICE
SIDE PANEL AND BOTTOM FRONT VALENTINE AND
HAND TIGHTEN ONLY.

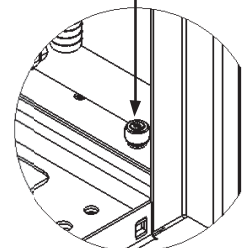


DETAIL F
SCALE 2 : 5

DETAIL F



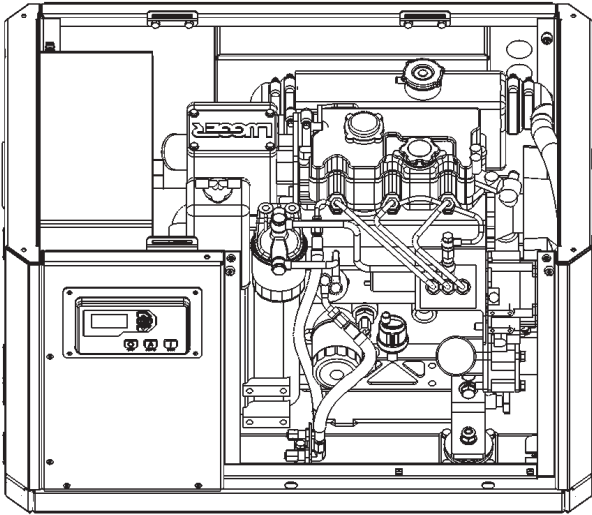
DETAIL G



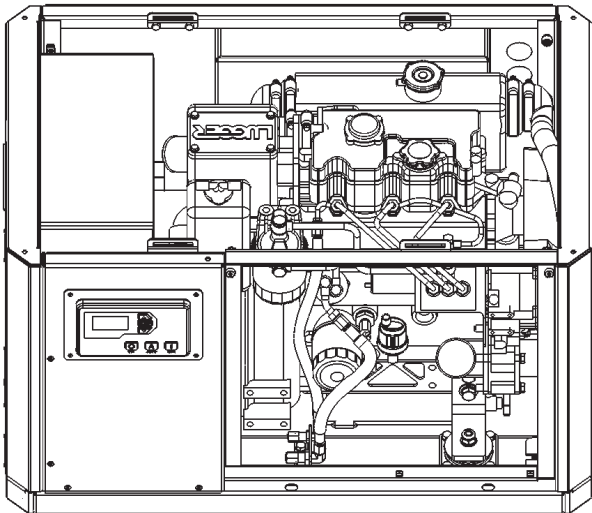
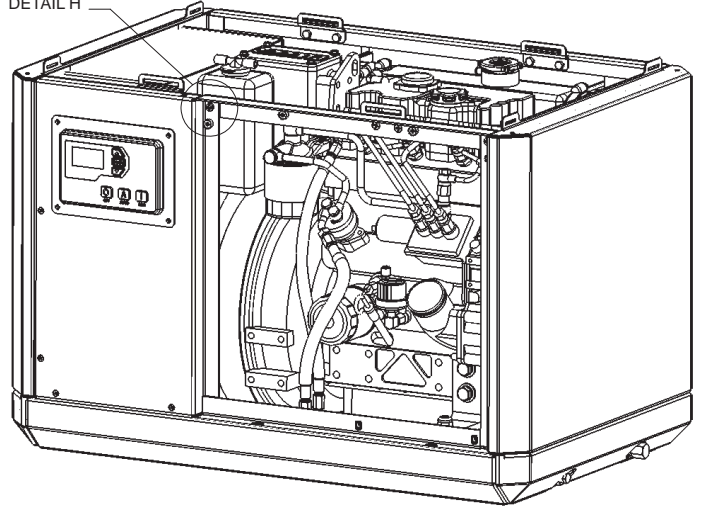
DETAIL G
SCALE 2 : 5

G

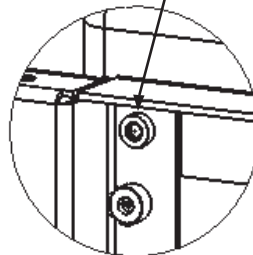
(item 12)
SEAL BAR



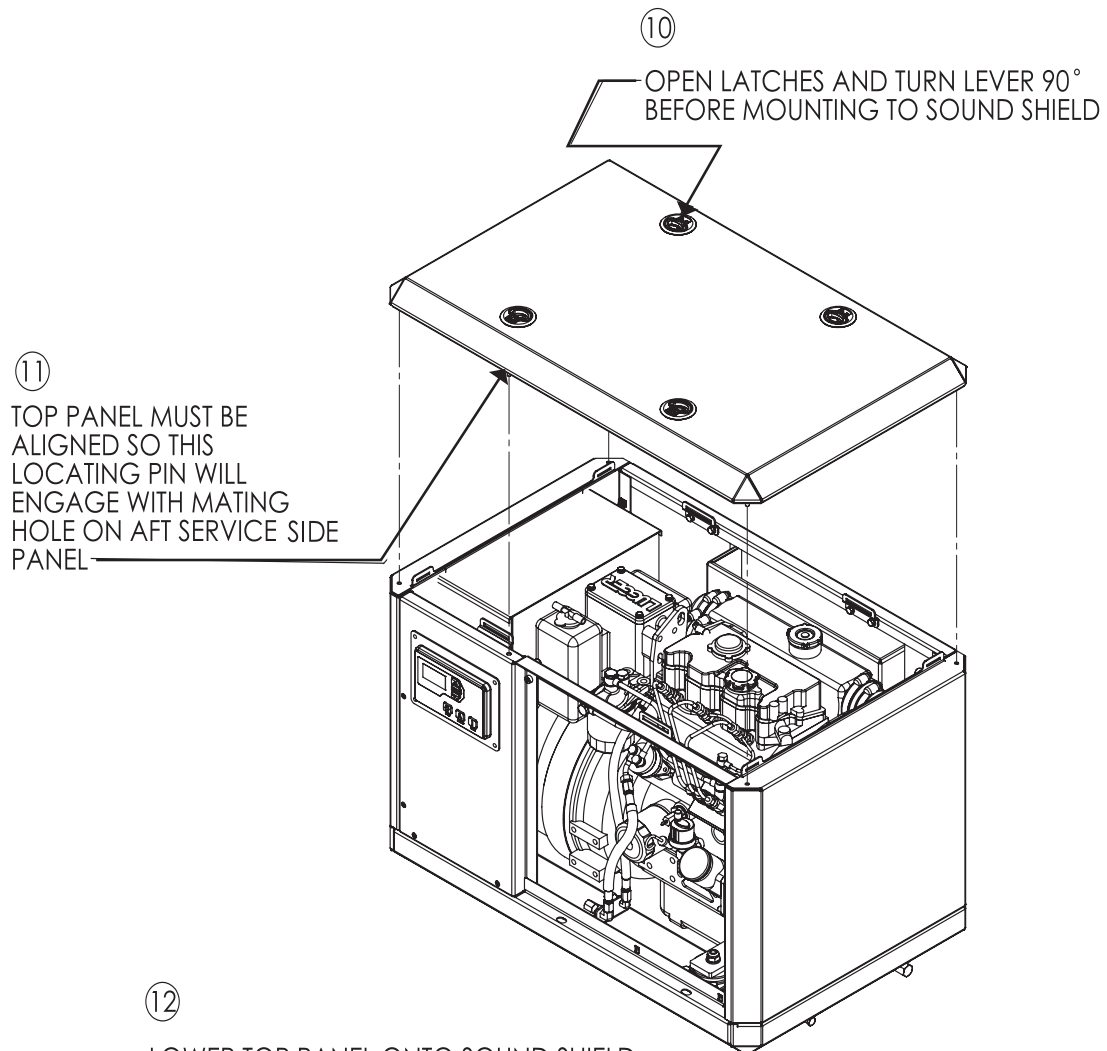
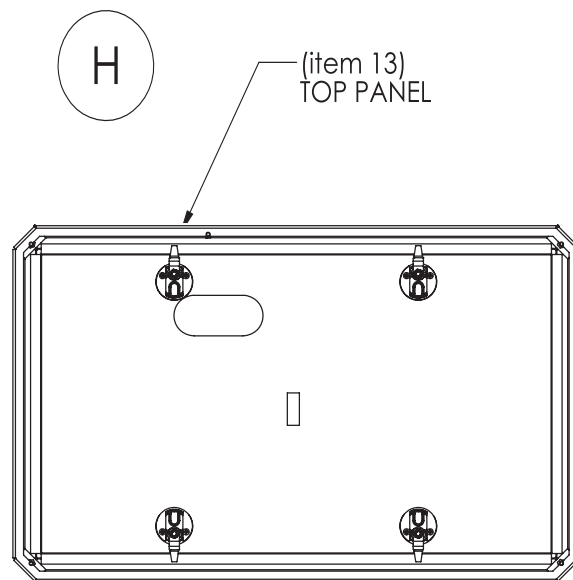
DETAIL H



ALIGN SEAL BAR SO THAT CAPTIVE
THUMB SCREWS ENGAGE WITH
PRESS NUTS LOCATED IN FRONT
PANEL AND AFT SERVICE SIDE PANEL
-HAND TIGHTEN ONLY

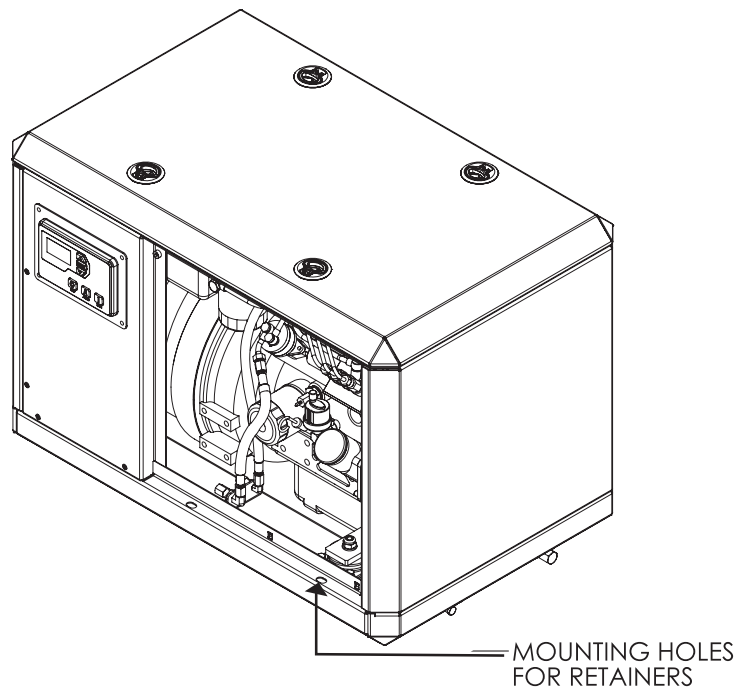
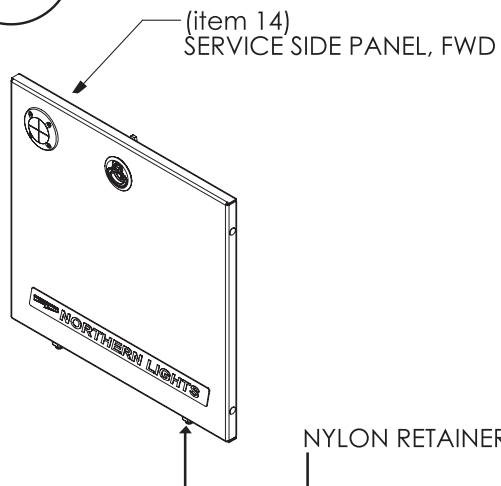


DETAIL H
SCALE 2 : 5



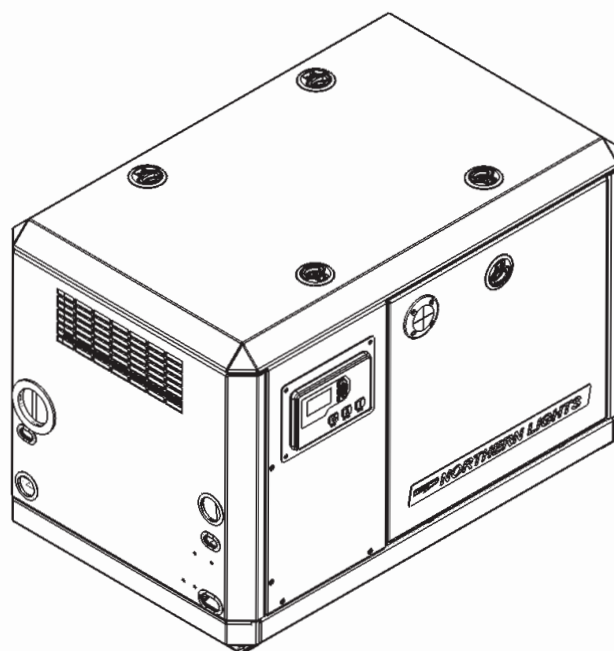
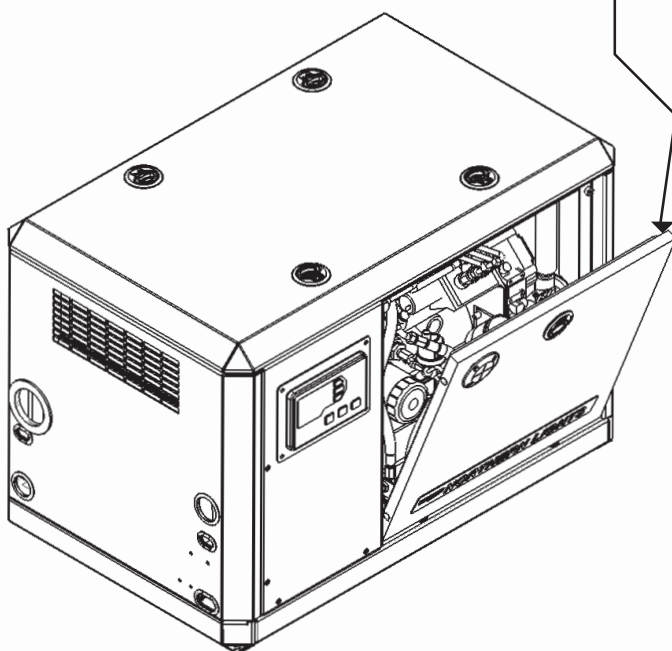
- ⑫
- LOWER TOP PANEL ONTO SOUND SHIELD.
 - ENSURE THAT ALL FIVE (5) LOCATING PINS ENGAGE WITH MATING HOLES.
 - TURN ALL LEVERS BACK TO THEIR STARTING POSITION.
 - MAKE SURE THERE IS A TIGHT SEAL BETWEEN TOP PANEL AND ENCLOSURE AND CLOSE THE LATCHES.

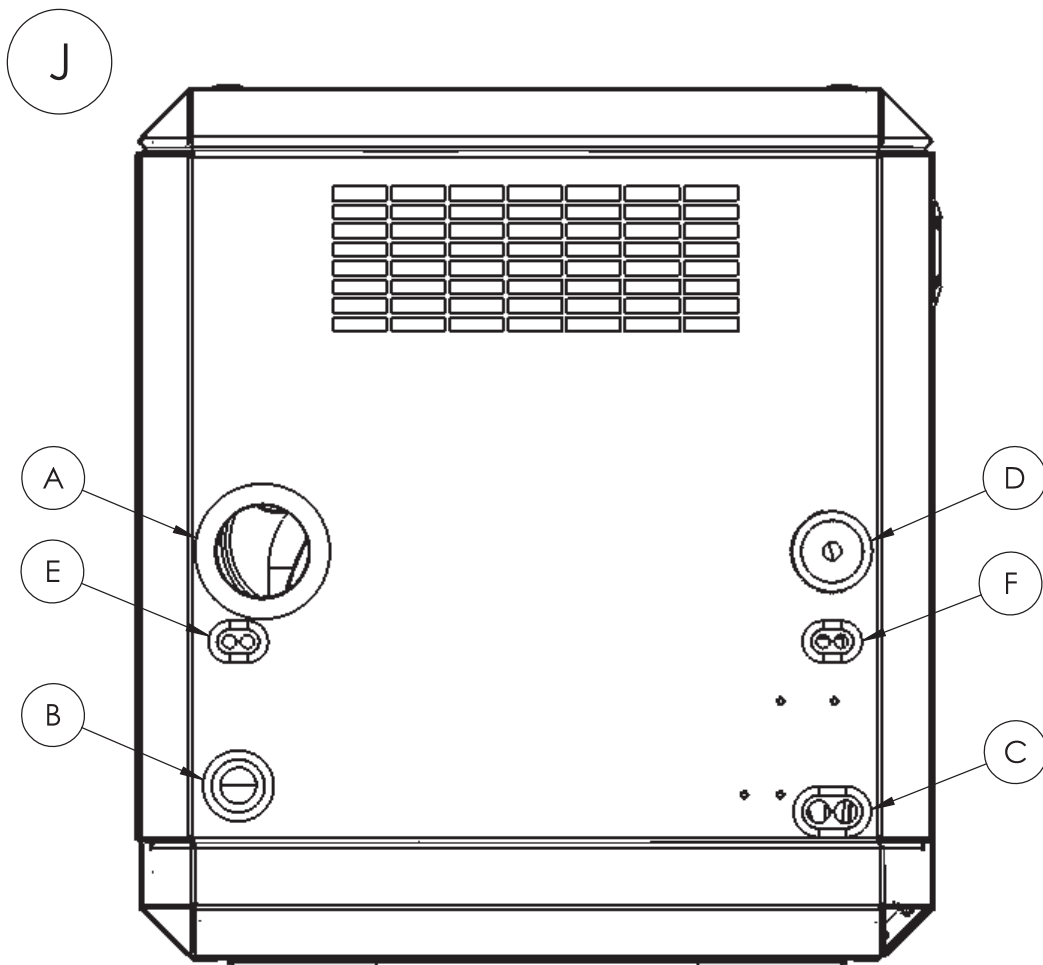
I



13

- WITH THE LATCH IN THE OPEN POSITION
- INSERT NYLON RETAINERS LOCATED ON THE BOTTOM OF THE FWD SERVICE PANEL INTO THE OBOURND MOUNTING HOLES ON THE BOTTOM SIDE VALENCE.
- PUSH TOP OF PANEL SNUGLY INTO PLACE AND TWIST LATCH TO CLOSE.

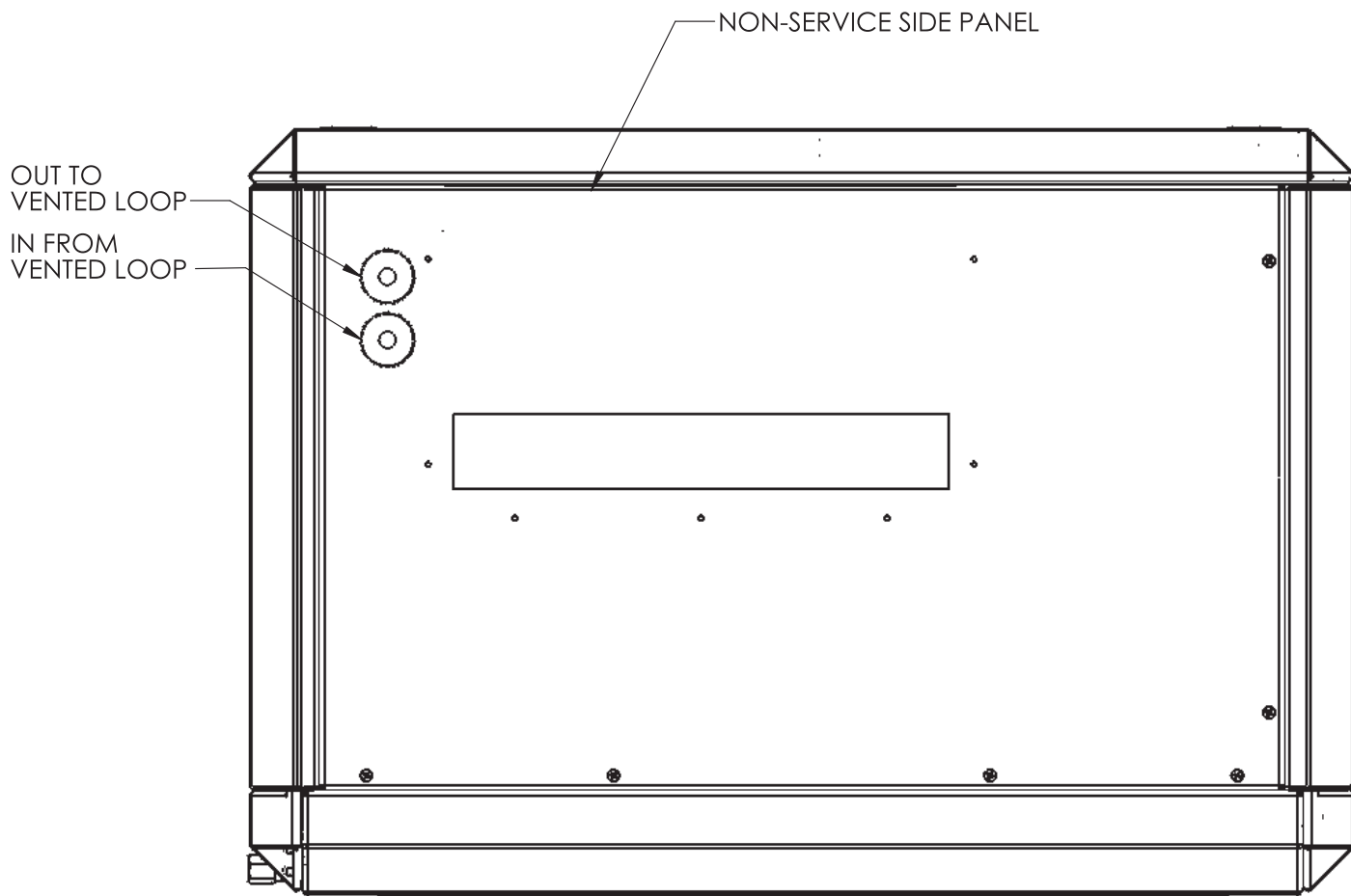




Install connections for exhaust, AC power leads, DC Control panel leads, battery and water through holes in the rear panel as shown and as described below:

- 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 inner 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 on 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.
Fit will be snug.



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 15) 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.

- a. 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.
- b. 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.
- c. For more information, see the "Exhaust" section of the IM1000 Installation Manual included with the generator set.

M773LW3 GEM SERIES SOUND ENCLOSURE PACKING LIST

ITEM#	DESCRIPTION	NLI PART #	QTY	NOTES:	PACKED
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SOUND SHIELD PANELS

1	JUNCTION BLOCK OFF PLATE ASSEMBLY	06-78632	1		<input type="checkbox"/>
2	REAR PANEL ASSEMBLY	06-78602	1		<input type="checkbox"/>
5	REAR BOTTOM VALENCE ASSEMBLY	06-78608	1		<input type="checkbox"/>
6	BOTTOM SIDE VALENCE ASSEMBLY	06-78611	2		<input type="checkbox"/>
8	FRONT BOTTOM VALENCE ASSEMBLY	06-78613	1		<input type="checkbox"/>
9	NON-SERVICE SIDE PANEL ASSEMBLY	06-78606	1		<input type="checkbox"/>
10	FRONT PANEL ASSEMBLY	06-78601	1		<input type="checkbox"/>
11	SERVICE SIDE PANEL ASSEMBLY, AFT	06-78604	1		<input type="checkbox"/>
12	SEAL BAR ASSEMBLY	06-78614	1		<input type="checkbox"/>
13	TOP PANEL ASSEMBLY	06-78605	1		<input type="checkbox"/>
14	SERVICE SIDE PANEL ASSEMBLY, FWD	06-78603	1		<input type="checkbox"/>

HARDWARE BAG:

3	1/4-20 X 3/4" HEX HEAD CAPSCREW, S/S	12-30111	3	LOOSE	<input type="checkbox"/>
4	1/4" EXTERNAL STAR WASHER, S/S	15-09103	3	LOOSE	<input type="checkbox"/>
7	NYLON BUMPER/RIVET	11-467	12	LOOSE	<input type="checkbox"/>
15	GROMMET 1-1/8" ID X 1-7/8" OD	00-70083	2	LOOSE	<input type="checkbox"/>

Packed By: _____ Date: _____