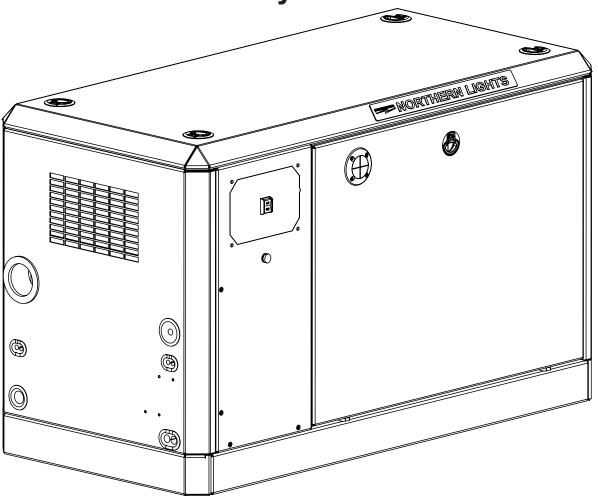


M844LW3 / M844DW3

GEM Series Sound Enclosure Assembly Instructions



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M844LW3 / M844DW3 GEM Sound Enclosure

ITEM#	DESCRIPTION	NLI P/N	QTY	NOTES
1.	Junction block off plate assembly	06-78110	1	
2.	Rear panel assembly	06-78102	1	includes 06-78108
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.	Sound foam, snorkel receiver seal	55-78114	1	loose, bagged
7.	Bottom side valence assembly	06-78104	2	
8.	Front bottom valence assembly	06-78108	1	
9.	Non-service side panel assembly	06-78107	1	
10.	Service side panel aft assembly	06-78106	1	
11.	Front panel assembly	06-78701	1	
12.	Seal bar assembly	06-78109	1	
13.	Top panel assembly	00-78103	1	
14.	Service side panel, fwd assembly	00-78105	1	
15.	Grommet 1-1/8" ID x 1-7/8" OD	00-70146	2	loose, bagged
16.	E-stop/leak alarm harness	22-72024	1	loose, bagged

SPECIFICATIONS		
Enclosure (installed on generator base):		
Length (OA)	46.1 in (1170 mm)	
Width	22.6 in (573 mm)	
Height	28.1 in (714 mm)	
Assembled weight - shield only:	49.0 lbs (22.0 kg)	
Assembled weight w/ genset:	997.0 lbs (452 kg)	

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.

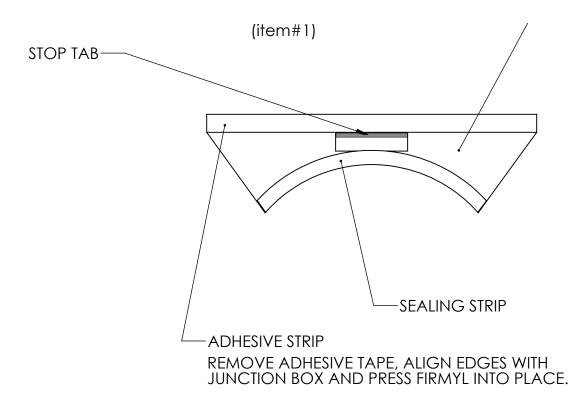
Install the generator set in the vessel as near to a level attitude as possible. Ensure that the enclosure's left hand side and rear are at the recommended distances (6 inch recommended,

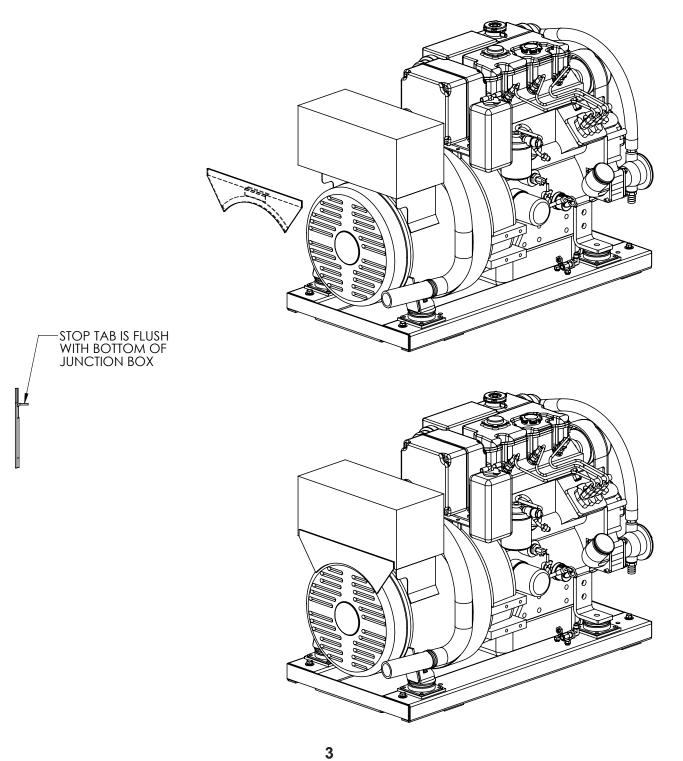
4 inch minimum.) from the vessel's bulkheads.

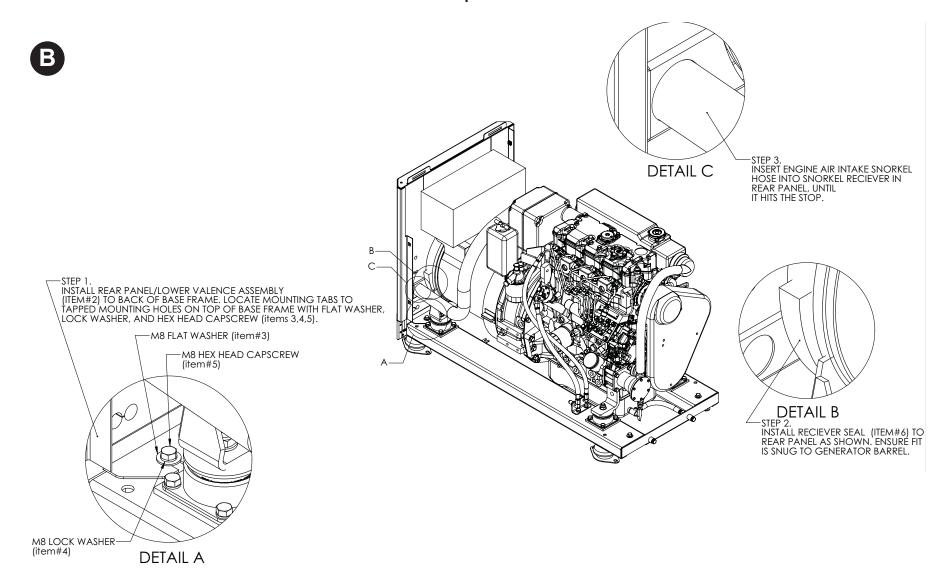
AVOID POSITIONING THE ENCLOSURE INTO CORNERS WITH OVERHEAD BLOCKED TO REDUCE CHANCE OF INTAKE/EXHAUST AIR RECIRCULATION OUTSIDE THE SHIELD.



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







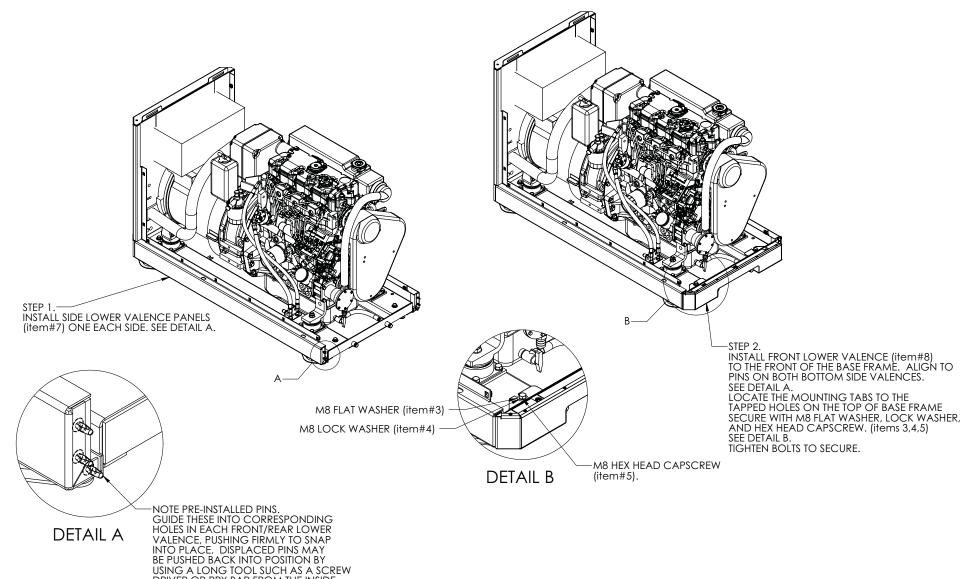
You may encounter some resistance as the rear panel comes into contact with the air intake snorkel hose. Note that the rear panel has a small hole in the vicinity of the intake snorkel. Guide this hose so that it is inserted in the panel hole, ensure that the hose does not go too far into the rear panel,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



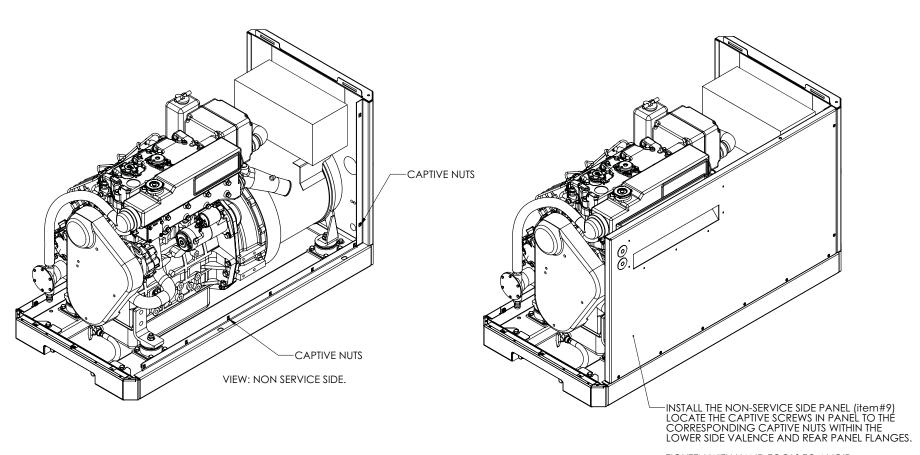
DETAIL A

DRIVER OR PRY BAR FROM THE INSIDE. PUSH/MOVE SOUND FOAM OUT OF THE WAY FOR IMPROVED ACCESS TO PINS.



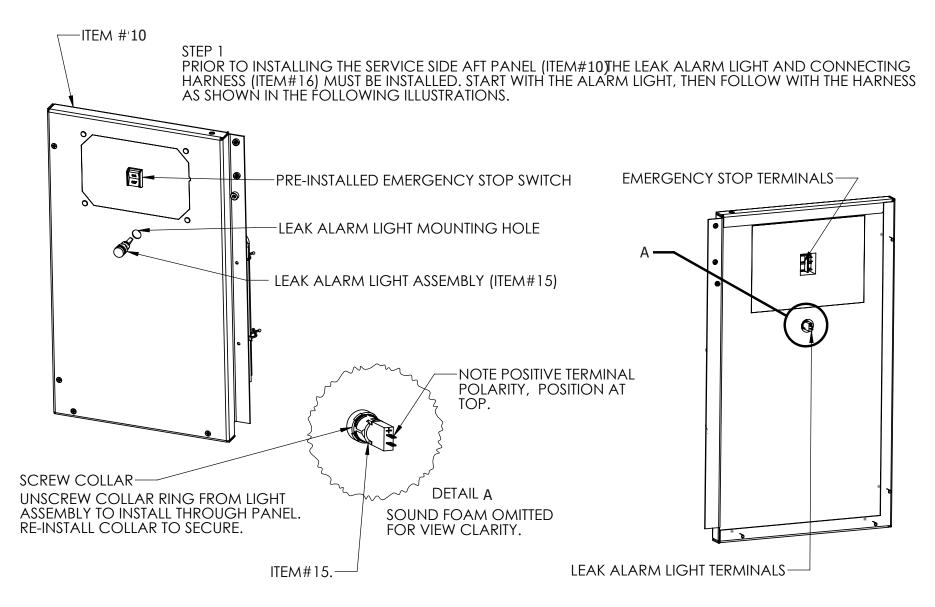
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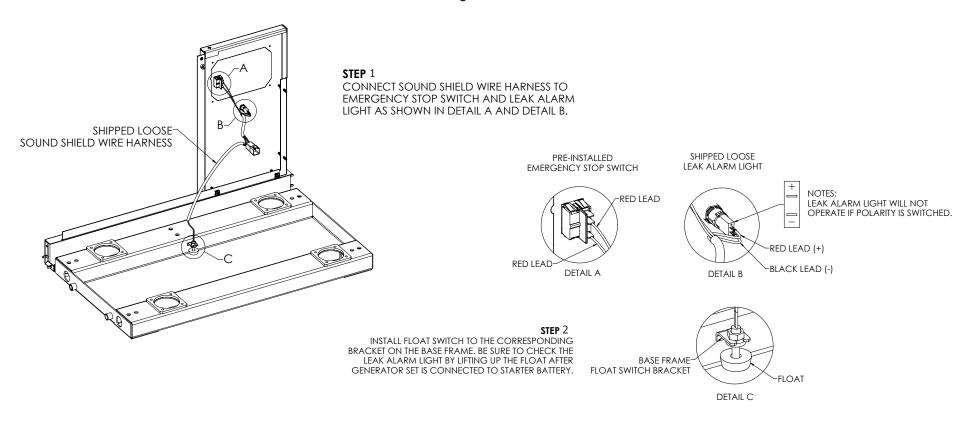


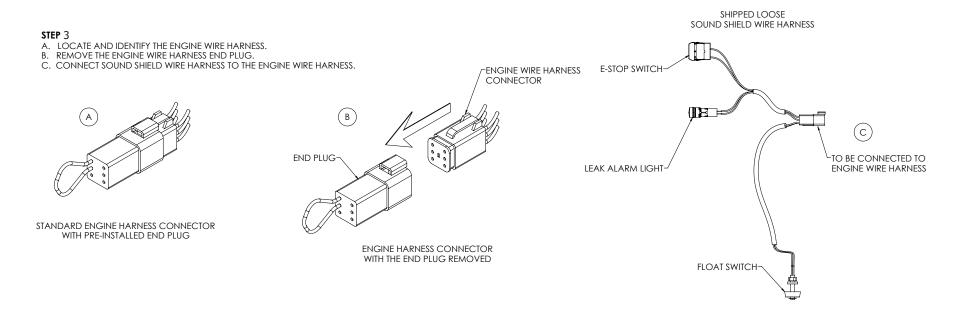


TIGHTEN WITH HAND TOOLS TO AVOID DAMAGE TO HARDWARE.

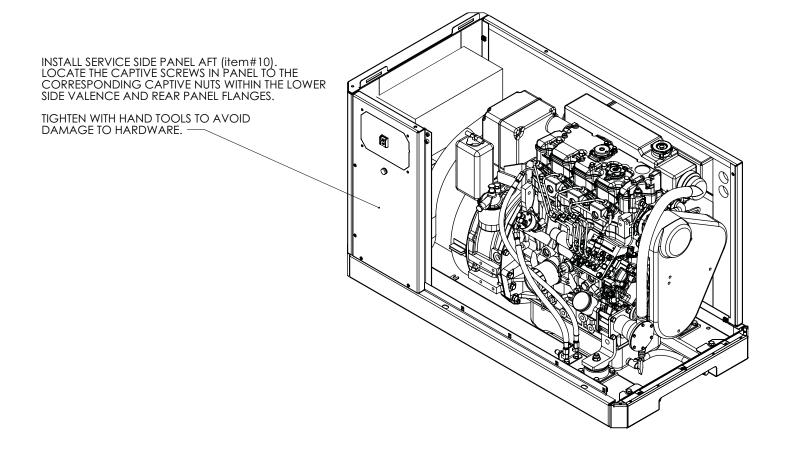




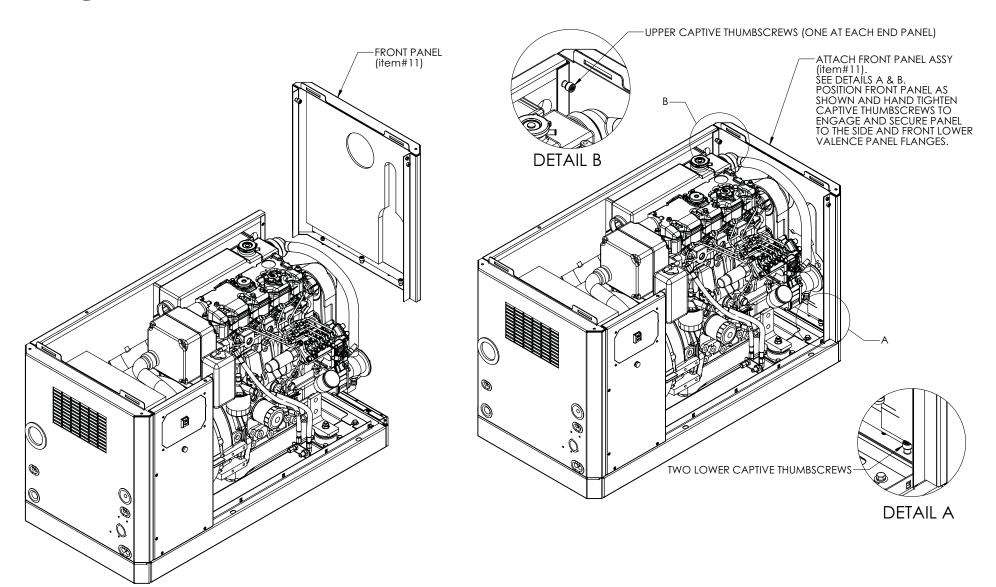




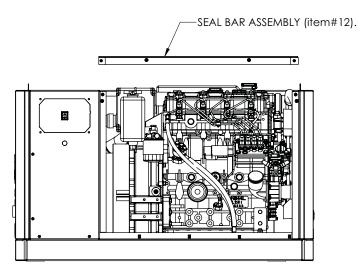




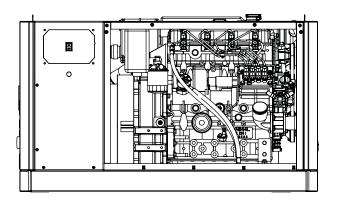




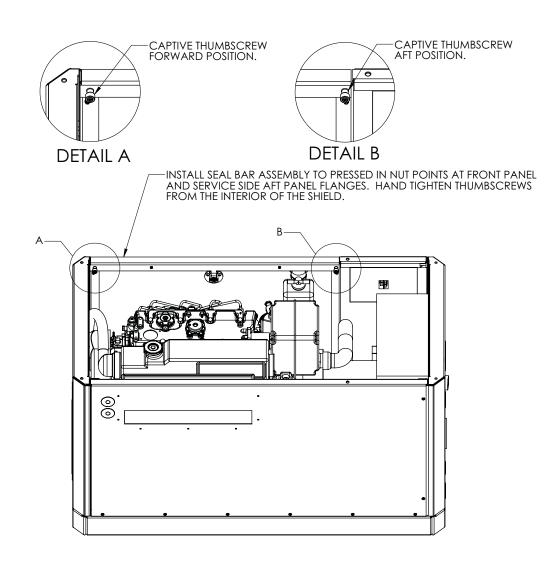




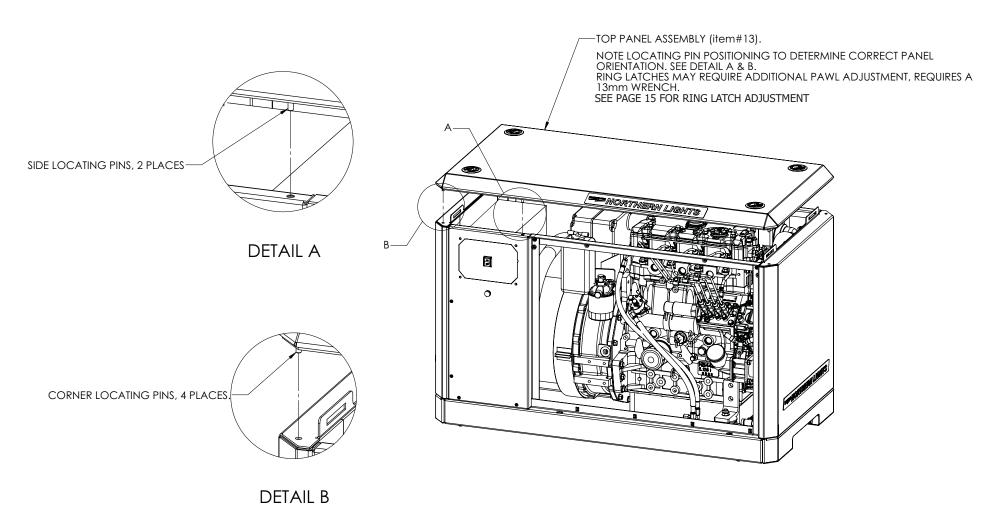
POSITION THE SEAL BAR ASSEMBLY



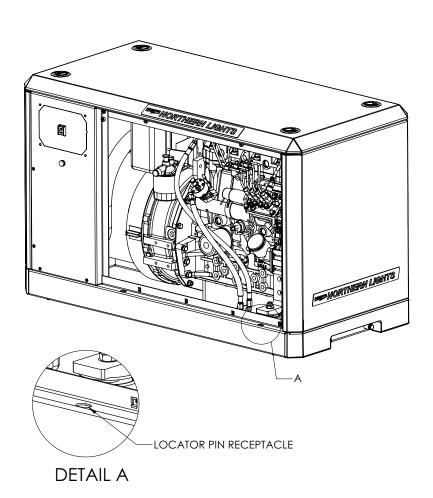
SEAL BAR INSTALLED

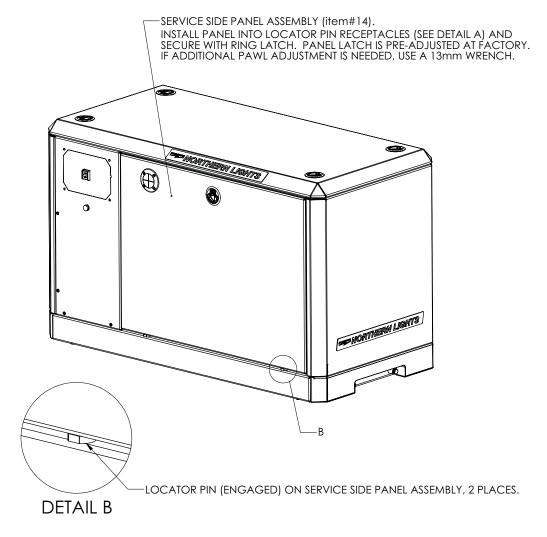




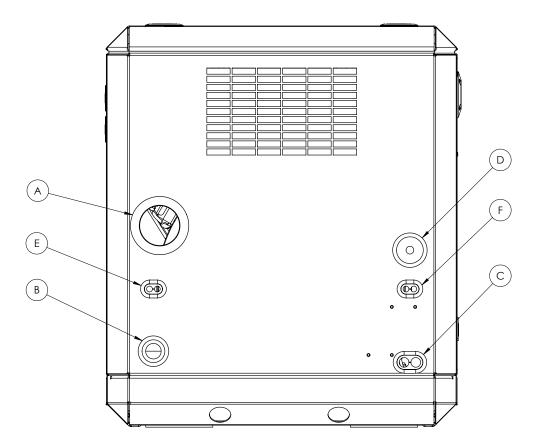










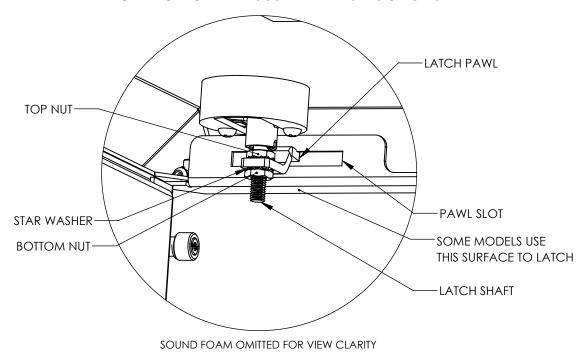


Install connections for exhaust, AC power leads, DC Control panel leads, battery and water through holes in the rear panel as shown above and described below:

- 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.

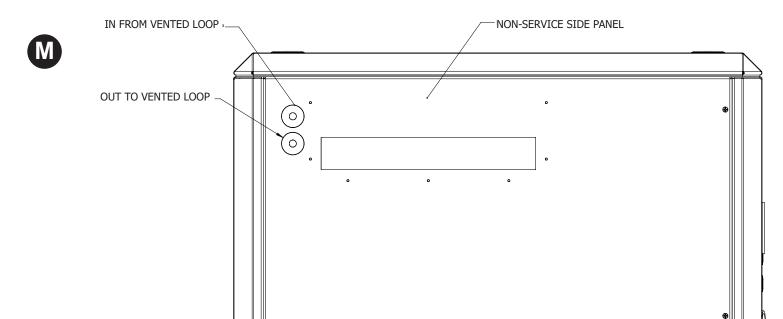
Note: This unit features new, non-displaceable penetration grommeting for the AC, DC, and battery cables. Therefore, the fit will be snug.

RING LATCH GRIP ADJUSTMENT INSTRUCTIONS



ALL LATCHES ARE PRE-ADJUSTED FROM FACTORY. IN THE EVENT A LATCH REQUIRES ADJUSTMENT, FOLLOW THESE STEPS:

- 1. NOTE THE INTERFERENCE, OR REASON WHY THE LATCH PAWL WILL NOT ENGAGE THE PAWL SLOT. IF PAWL HITS SLOT BRACKET OR SHELF IT MUST BE MOVED TO ALLOW PAWL TO ROTATE INSIDE SLOT.
- 2. LATCH PAWL SHOULD OPERATE WITHIN SLOT FREELY WHEN LATCH HANDLE ROTATES ON REMOVAL.
- 3. WITH LATCH IN CLOSED POSITION, (LATCH PAWL POINTING TOWARDS SLOT, LOOSEN THE BOTTOM NUT. TURN TOP NUT TO CHANGE POSITION OF PAWL AND THEN RE-TIGHTEN THE BOTTOM NUT. ENSURE THE NUT IS FULLY TIGHT BEFORE OPERATING THE LATCH.
- 4. AN IDEAL LATCH CONDITION IS WHEN THE PAWL SWINGS INTO POSITION ON CLOSING, PULLS UP AND ENGAGES THE TOP OF THE SLOT WITH INCREASING RESISTANCE. WHEN THE LATCH RING IS FULLY DEPRESSED THERE SHOULD BE FIRM COMPRESSION OF PANEL PERIMETER SEAL.
- 5. IF YOU CAN LIFT UP A CORNER OF THE TOP PANEL AND SEE A SPACE, THE LATCH IS NOT TIGHT ENOUGH.



FOR APPLICATIONS USING A SIPHON BREAK:

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 IM1000 Installation Manual.

M844LW3 / M844DW3 SOUND SHIELD PACKING LIST

ITEM	DESCRIPTION	NLI P/N	QTY	PA	CKED
1	JUNCTION BLOCK OFF PLATE ASSEMBLY	06-78110	1		
2	REAR PANEL ASSEMBLY, Includes 06-78108	06-78102	1		
7	BOTTOM SIDE VALENCE ASSEMBLY	06-78104	2		
8	FRONT BOTTOM VALENCE ASSEMBLY	06-78108	1		
9	NON-SERVICE SIDE PANEL ASSEMBLY	06-78107	1		
10	SERVICE SIDE PANEL AFT ASSEMBLY	06-78106	1		
11	FRONT PANEL ASSEMBLY	06-78101	1		
12	SEAL BAR ASSEMBLY	06-78109	1		
13	TOP PANEL ASSEMBLY	00-78103	1		
14	SERVICE SIDE PANEL, FWD ASSEMBLY	00-78105	1		
HARDWA	RE BAG:				
3	M8 FLAT WASHER	15-11000	4	Loose	
4	M8 LOCK WASHER	15-00705	4	Loose	
5	M8 HEX HEAD CAPSCREW	12-00776	4	Loose	
6	SOUND FOAM, SNORKEL RECEIVER SEAL	55-78114	1	Loose	
15	GROMMET, 1-1/8" ID x 1-7/8" OD	00-70146	2	Loose	
16	E-STOP/LEAK ALARM HARNESS	22-72024	1	Loose	

Packed By:	Date:
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