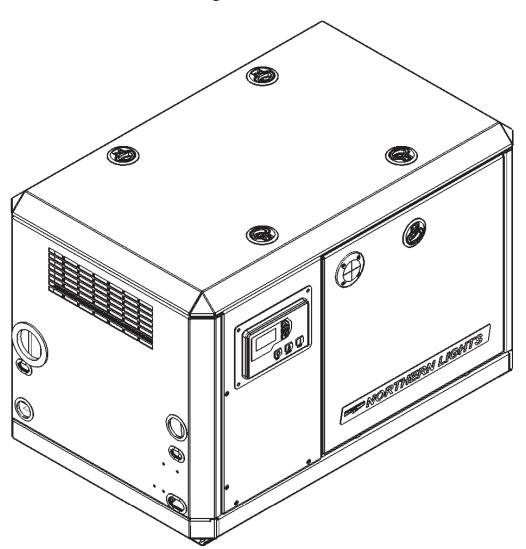


M773LW3

GEM Series Sound Enclosure Assembly Instructions



Corporate Headquarters

4420 14th Avenue NW Seattle, WA 98107 Tel: (206) 789-3880 Fax: (206) 782-5455

Alaska Branch Office

1200 West International Airport Road Anchorage, AK 99519 Tel: (907) 562-2222 Fax: (907) 563-1921

Southeastern U.S.A.

1419 W Newport Center Dr Deerfield Beach, FL 33442 Tel: (954) 421-1717 Fax: (954) 421-1712

East Coast Branch

15 Aegean Dr. Suite 4 Methuen MA 01844 Tel: (978) 475-7400 Fax: (978) 475-7745

Gulf Branch

19 Veterans Memorial Blvd. Kenner, LA 70062 Tel: (504) 360-2180 Toll Free: (800) 843-6140

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 | |
| 16 | M8 FLAT WASHER | 15-11000 | 4 | loose, bagged |
| 17 | M8 LOCK WASHER | 15-00705 | 4 | loose, bagged |
| 18 | M8 HEX-HEAD CAP SCREW | 12-00776 | 4 | loose, bagged |
| 19 | SOUND FOAM SNORKEL RECEIVER | 55-78676 | 1 | loose, bagged |
| Specifi | cations: | | | |
| Enclosur | e (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.

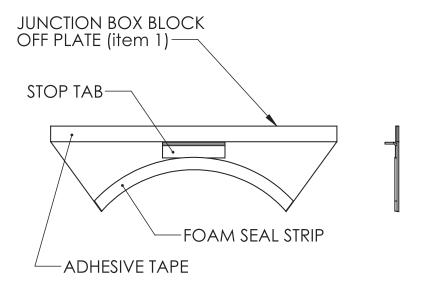
Note that the generator set is designed for single side service. When viewed from the rear, the right hand side is the service side and should be exposed for easy maintenance access.

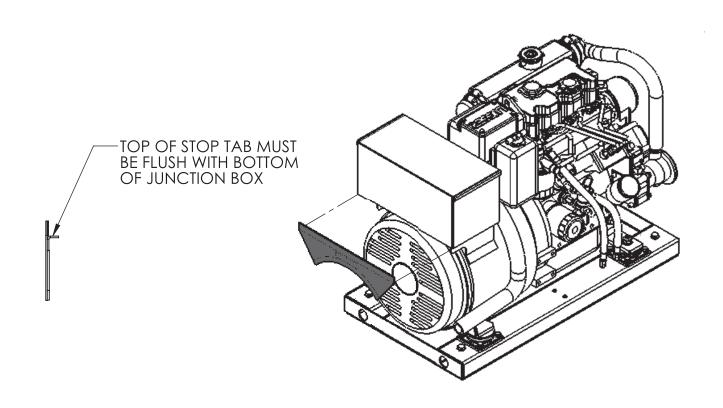
Install the generator set in the vessel as near to a level attitude as possible. Ensure that the enclosure's left hand side and rear are at the recommended distances (6 inch recommended, 4 inch minimum.) from the vessel's bulkheads.

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

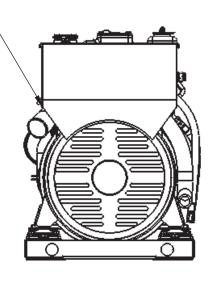


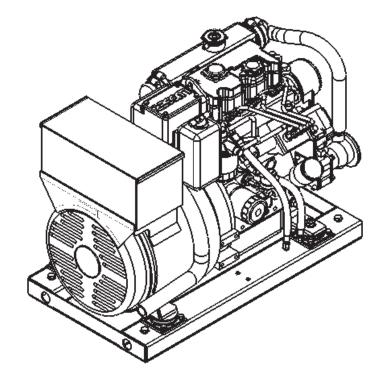
PRIOR TO SOUND SHIELD ASSEMBLY, START WITH ITEM #1 INSTALLATIONS SHOWN IN FOLLOWING ILLUSTRATIONS. NUMBERS INDICATE ASSEMBLY SEQUENCE.

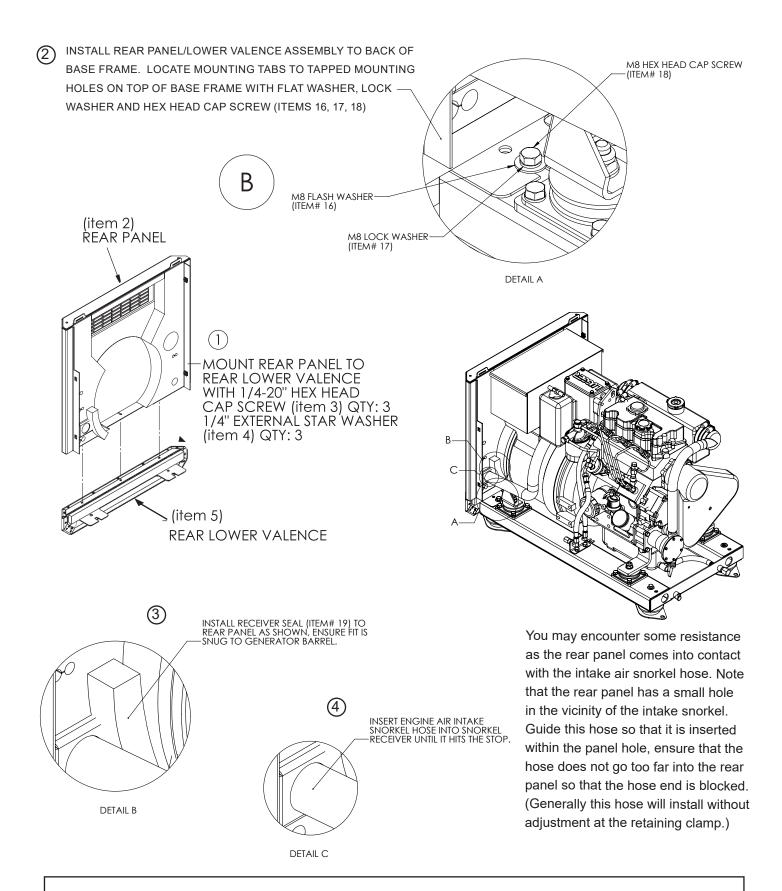




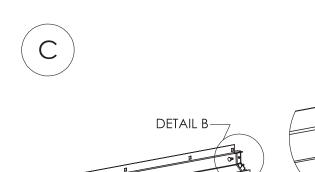
REMOVE ADHESIVE BACKING FROM ADHESIVE TAPE AND ALIGN EDGES OF BLOCK OFF PLATE WITH EDGES OF JUNCTION BOX AND PRESS FIRMLY INTO PLACE





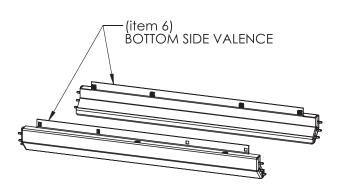


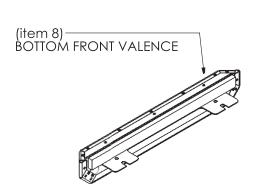
When making the intake air snorkel hose connection, it is important to ensure that the hose is not kinked or bent in such a way to restrict the engine's intake air flow. This arrangement is designed to allow the hose to follow it's natural path when properly installed into the rear panel. Some adjustment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

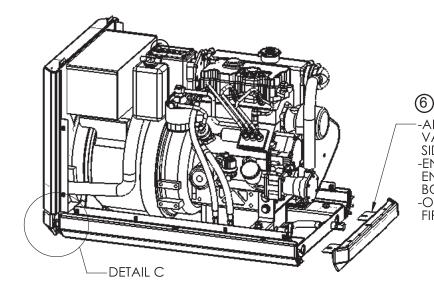




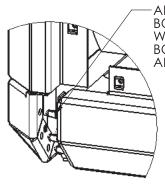






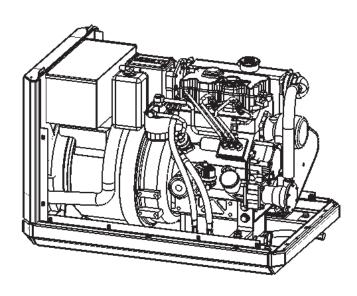


-ALIGN MATING HOLES ON BOTTOM FRONT VALENCE WITH NYLON RIVETS ON BOTTOM SIDE VALENCE AND SNAP INTO PLACE.
-ENSURE FRONT VALENCE MOUNTING TABS ENGAGE WITH FRONT BASE FRAME MOUNTING BOLTS WITH THE WASHER ON TOP OF THE TAB.
-ONCE FRONT AND SIDE VALENCES ARE SNUG, FIRMLY TIGHTEN BASE FRAME MOUNTING BOLTS.

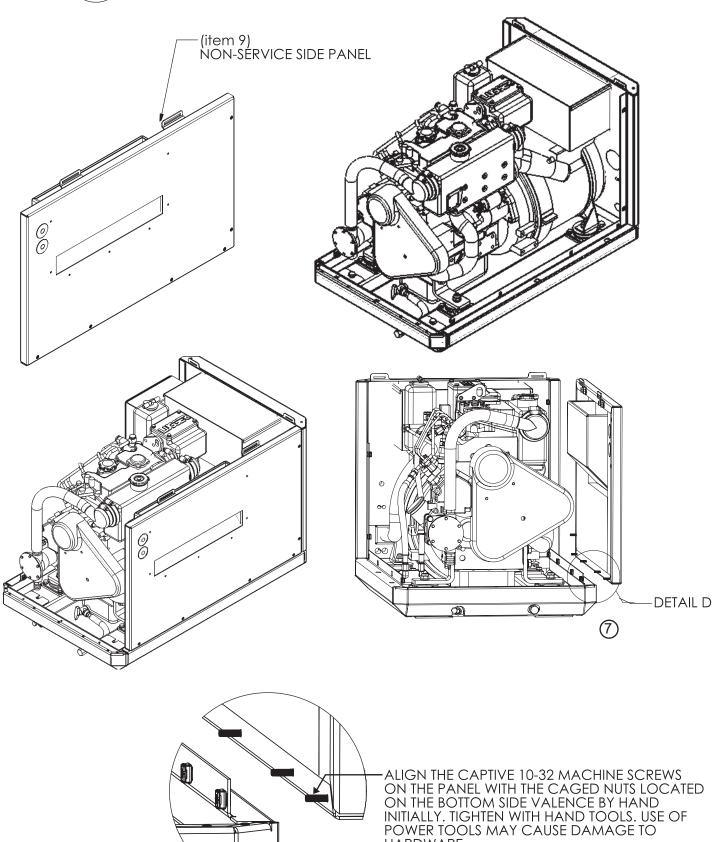


ALIGN NYLON RIVETS ON BOTTOM SIDE VALENCE WITH MATING HOLES OF BOTTOM REAR VALENCE AND SNAP INTO PLACE.

DETAIL C

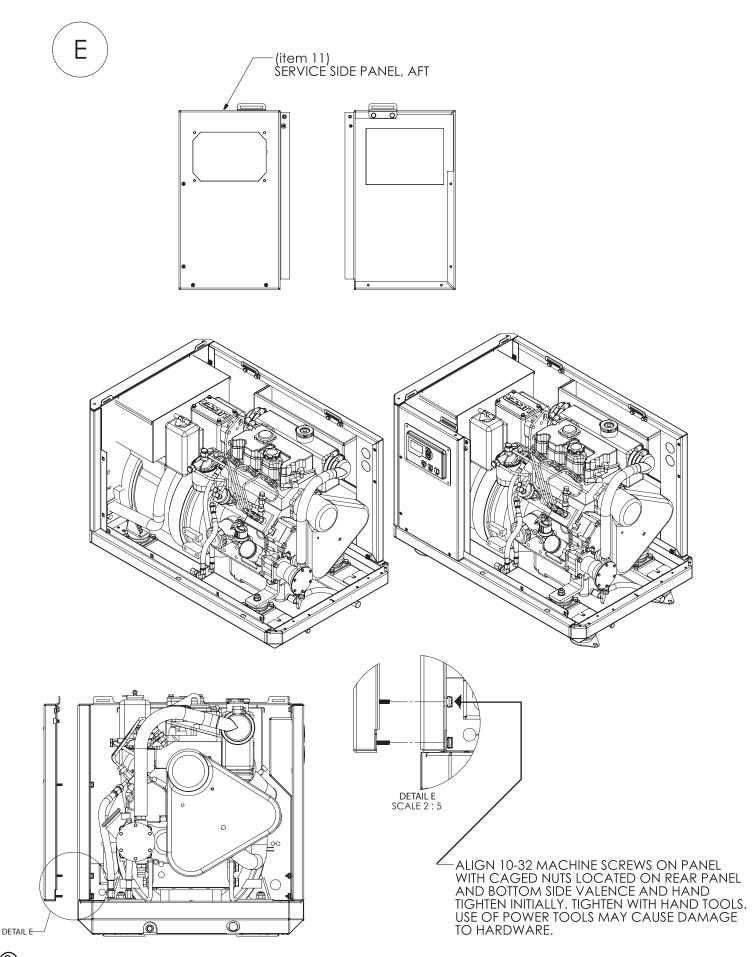


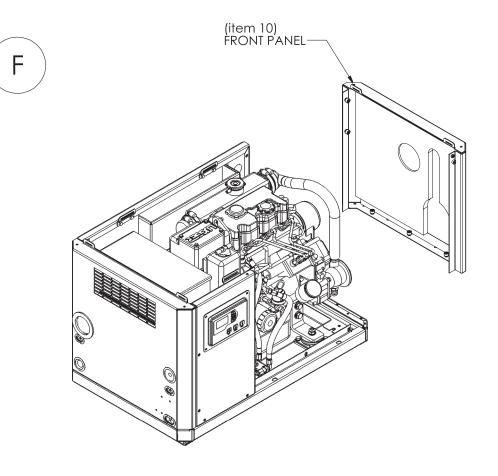


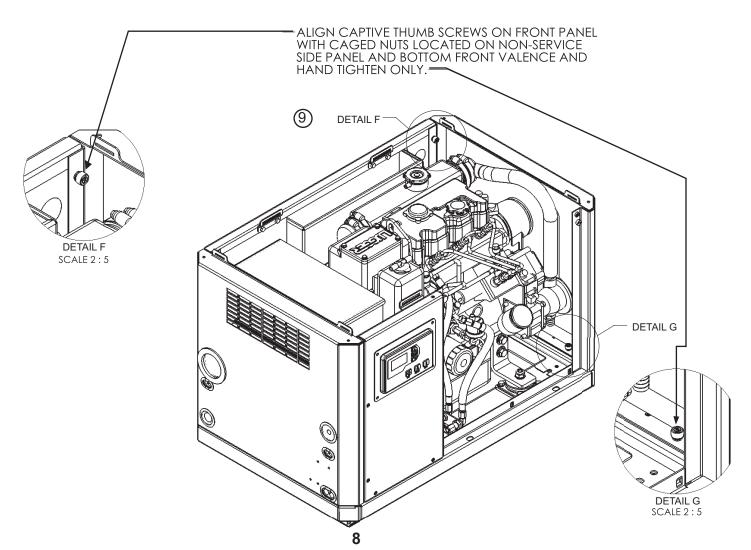


DETAIL D

HARDWARE.

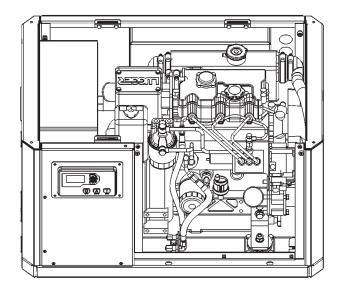


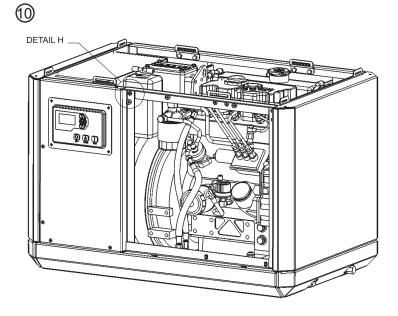


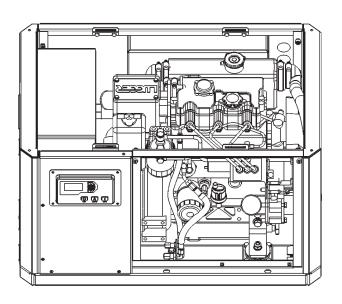


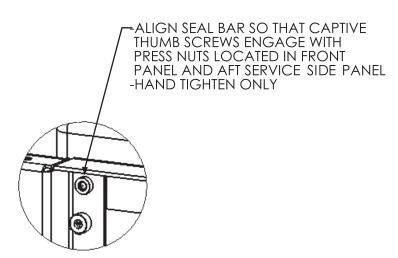




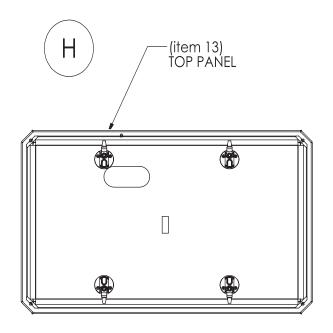


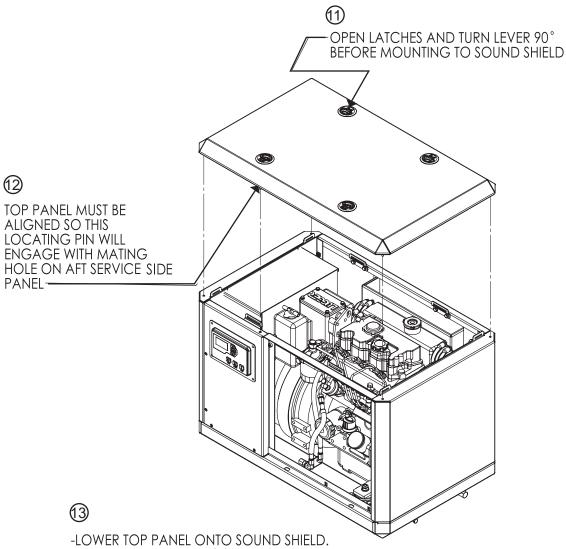






DETAIL H SCALE 2:5



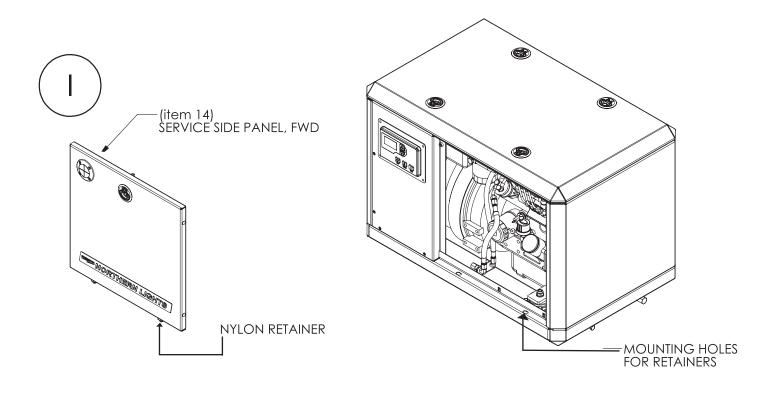


-LOWER TOP PANEL ONTO SOUND SHIELD.
-ENSURE THAT ALL FIVE (5) LOCATING PINS ENGAGE WITH MATING HOLES.

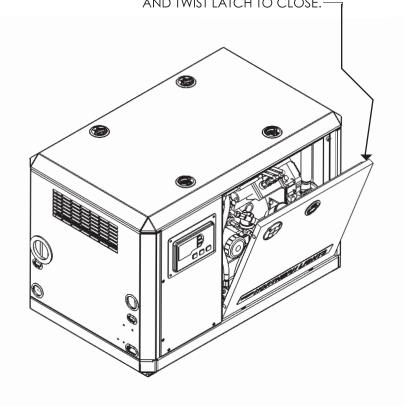
-TURN ALL LEVERS BACK TO THEIR STARTING POSITION.

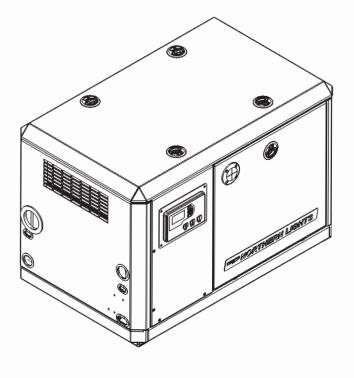
-MAKE SURE THERE IS A TIGHT SEAL BETWEEN TOP PANEL AND ENCLOSURE AND CLOSE THE LATCHES.

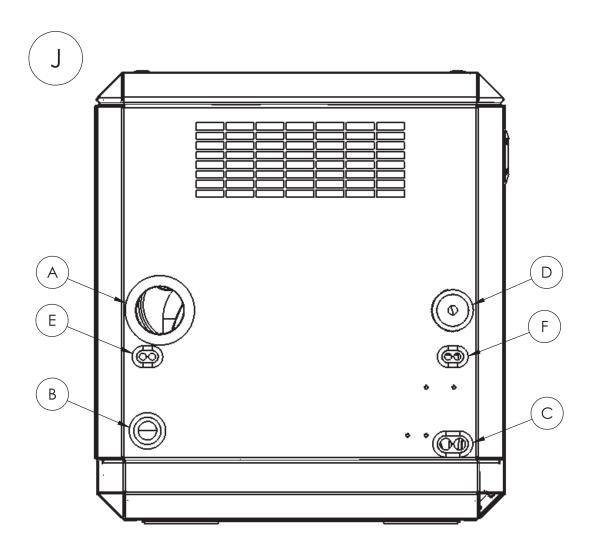
10



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





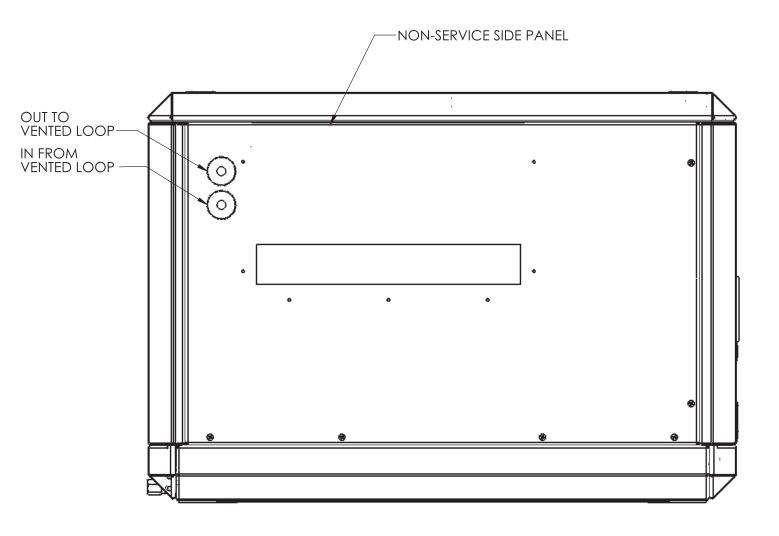


Install connections for exhaust, AC power leads, DC Control panel leads, battery and water through holes in the rear panel as shown and as described below:

- 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** SOUND SHIELD PANELS 1 JUNCTION BLOCK OFF PLATE ASSEMBLY 06-78632 1 2 REAR PANEL ASSEMBLY 06-78602 1 5 REAR BOTTOM VALENCE ASSEMBLY 06-78608 1 6 BOTTOM SIDE VALENCE ASSEMBLY 06-78611 2 8 FRONT BOTTOM VALENCE ASSEMBLY 06-78613 1 9 NON-SERVICE SIDE PANEL ASSEMBLY 1 06-78606 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 HARDWARE BAG: 3 1/4-20 X 3/4" HEX HEAD CAPSCREW, S/S 12-30111 3 LOOSE 4 1/4" EXTERNAL STAR WASHER, S/S 15-09103 3 LOOSE 7 NYLON BUMPER/RIVET 11-467 12 LOOSE 15 GROMMET 1-1/8" ID X 1-7/8" OD 00-70083 2 LOOSE 16 M8 FLAT WASHER 15-11000 4 LOOSE 17 M8 LOCK WASHER 15-00705 4 LOOSE M8 HAX HEAD CAP SCREW 18 12-00772 4 LOOSE SOUND FOAM SNORKEL RECEIVER 19 55-78676 1 LOOSE

| Packed By: | Date: | |
|------------|-------|--|
| L814 12/18 | | |