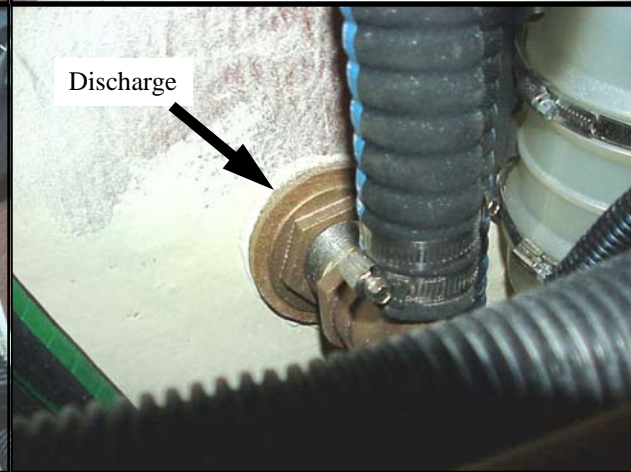
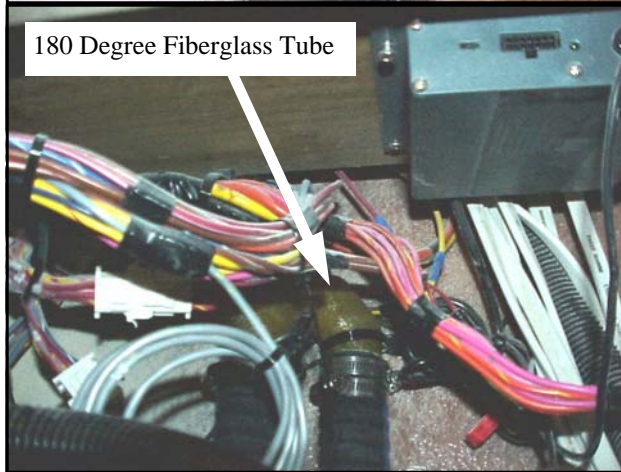
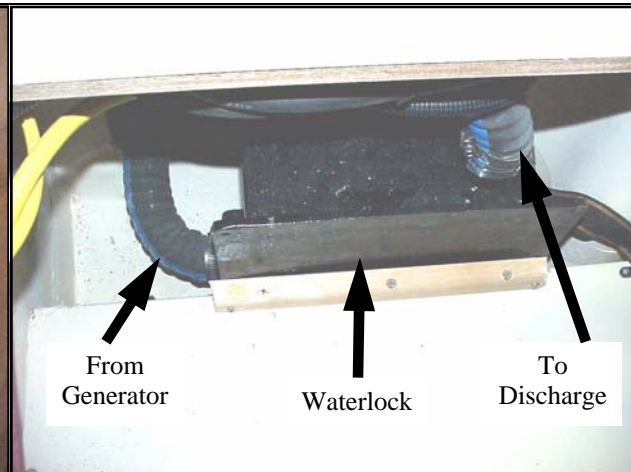
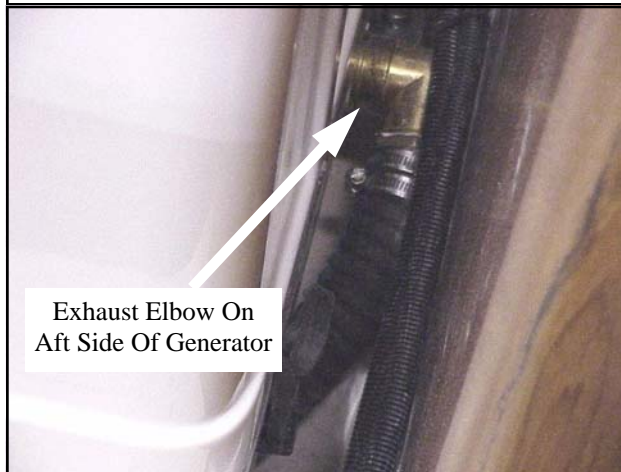


# 426 SOP GENERATOR EXHAUST INSTALLATION

The exhaust system for the 426 generator will consist of a exhaust hose (4') running from the exhaust elbow located on the aft side of the generator to the inlet nipple of the water lock located under the inboard edge of the generator. Then another exhaust hose (6') will run from the outlet nipple on the waterlock outboard and up the hull where a 180 degree fiberglass tube will be attached. The last exhaust hose (3') will run from the 180 degree tube to the generator discharge thru hull. All hoses will need to be trimmed to length and secured with two #24 hose clamps on each end. The waterlock will be set up on edge and secured to a batten that is attached to the battery platform (see pictures).



Heading

Place your message here. For maximum impact, use two or three sentences.

#	#Ea.	Description	Size	Part #
1	1	Exhaust Hose	1-1/2" x 3'	358305
2	1	Exhaust Hose	1-1/2" x 4'	358305
3	1	Exhaust Hose	1-1/2" x 6'	358305
4	12	Hose Clamps	#24	353427

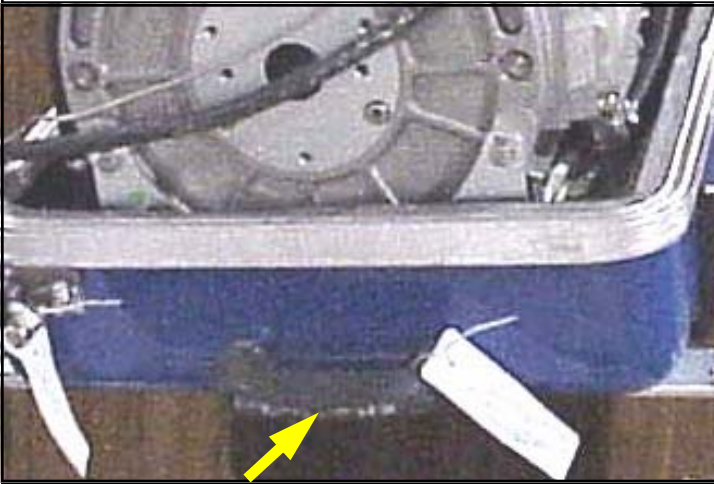
Revision Dates:

Expected Time:

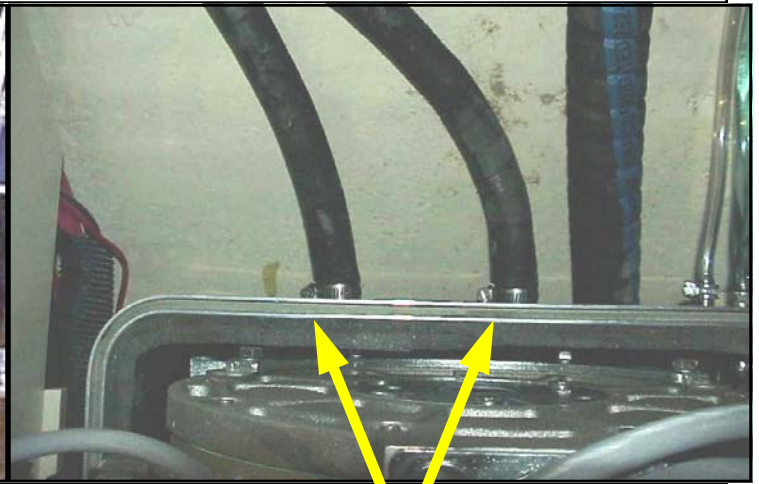
Page

# 41 SOP GENERATOR AIR VENT LOOP INSTALLATION

1. On the back of the generator base is a "U" shaped water hose. This will need to be removed so the air vent loop can be installed. The air vent comes with the generator package.
2. Before the generator is lowered into position remove the "U" shaped hose off the back of the generator, then using one #10 hose clamp for each hose put a three foot long , 3/4" shieldflex hose on each nipple on the back of the generator that the "U" shaped hose was on.
3. Tape (or secure in some other fashion) the hoses to the top of the generator so they will not fall down while lowering the generator into place. NOTE: Read the overflow bottle installation as these hoses will also need to be attached to the generator (just inboard of the vented loop hoses) before it is set in place.
4. Once the generator is secured to the generator platform place the air vent on the bulkhead forward of the generator so the top of the vent is 1/2" under the trim on the bulkhead. Mark where the hoses need to be cut, then cut them to the appropriate length. Attach the loose ends of the hoses to the air vent using one #10 hose clamp on each hose.
5. Place the air vent back in position and secure it to the hull with three #8 X 5/8" pan head screws.
6. About halfway down the hoses secure them together with a tie-wrap w/eye and attach the tie-wrap to the bulkhead with a #8 x 5/8" pan head screw.



"U" SHAPED HOSE ON THE BACK OF THE GENERATOR THAT WILL NEED TO BE REMOVED



SHIELDFLEX HOSES ATTACHED TO THE NIPPLES ON THE BACK OF THE GENERATOR.

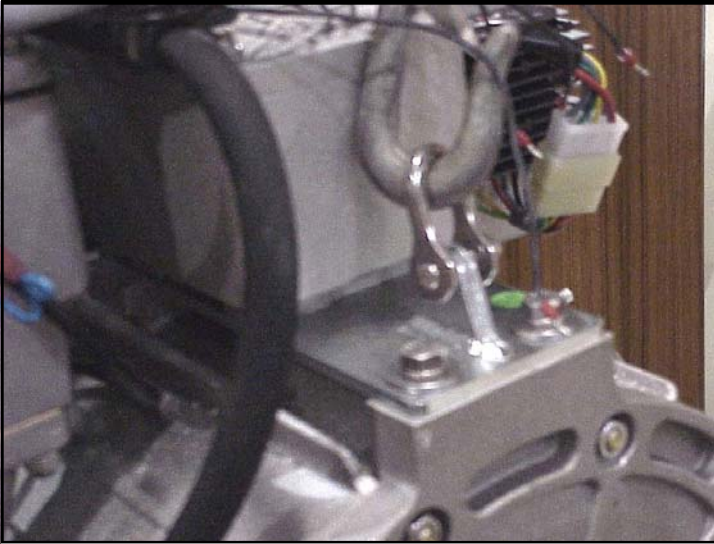
# 41 SOP GENERATOR

## INSTALLATION Page 1 of 4

1. The generator is an option in the 41. This SOP will address the installation of the generator, and where the wires and hoses that are, or will be' attached to the front of the generator will go. There are several other SOP's related to the other components of the generator and will need to be completed to have a functioning generator. These are listed in the lower left corner of this page. In this SOP the front of the generator is referring to the side that has the 9 outlets for hoses and/or wires (see pictures for clarification). When installed in the boat, the front of the generator will face aft. The generator will be located in the port euro-locker (aka lazerette compartment), space for the generator is tight. A 3/4" platform will be needed under the generator.
2. Remove the top cover (two pieces) from the generator then attach the lifting chain strap to the two lifting locations on the generator (one towards the front and the other in the rear). Using a hoist lift the generator up.
3. While the generator is in the air the exhaust fittings will need to be attached. These fittings come in a plastic bag that is part of the generator kit, it consist of an elbow, union, and hose barb. The union will not be used. Apply pipe compound the male threads coming out of the side of the generator compartment then attach the elbow to the generator, the elbow should face towards the front of the generator. Apply pipe compound to the male threads on the hose barb and attach it to the elbow.
4. The vented loop hoses and overflow bottle hoses will also need to be attached to the generator before it is permanently mounted in the boat, refer to these specific SOP's for these installation instructions.
5. Now install the four feet that come with the generator to the generator base. NOTE: The mounting bolts that come with the feet are metric threads so do not lose them as there are no replacements here.
6. Lower the generator into the euro-locker with the front of the generator facing aft. Leave enough room between the back of the generator (the forward end) and the bulkhead to run the vented loop and to be able to open and close the latches on the generator cover. Also leave enough room between the inboard side of the generator and the bulkhead there to run the exhaust hose and to be able to open and close the latches on the generator cover.
7. Mark the mounting hole locations of the feet on the 3/4" generator platform. Lift the generator up & remove the feet. Drill the marked locations on the generator platform with a 1/4" drill bit then secure the generator feet to the platform with 5/16 x 1-1/2" lag bolts, lock washers & neoprene washers.
8. The drop-in just aft of the generator will need to be modified as per the drawing on page 3.
9. A 1-1/8" hole will need to be drilled thru the floor just outboard of the drop-in for the hose coming from the generator pickup thru hull to come up thru and attach to the generator.



# 41 SOP GENERATOR INSTALLATION Page 2 of 4



Connect the lifting chain strap to the front and rear of the generator



While the generator is in the air, attach the exhaust elbow and hose barb that come with the generator. Use pipe compound on the male threads and face the elbow towards the front of the generator.



A view of the face of the generator which is referred to as the front. The hoses and wires shown is how the generator comes from the manufacturer.

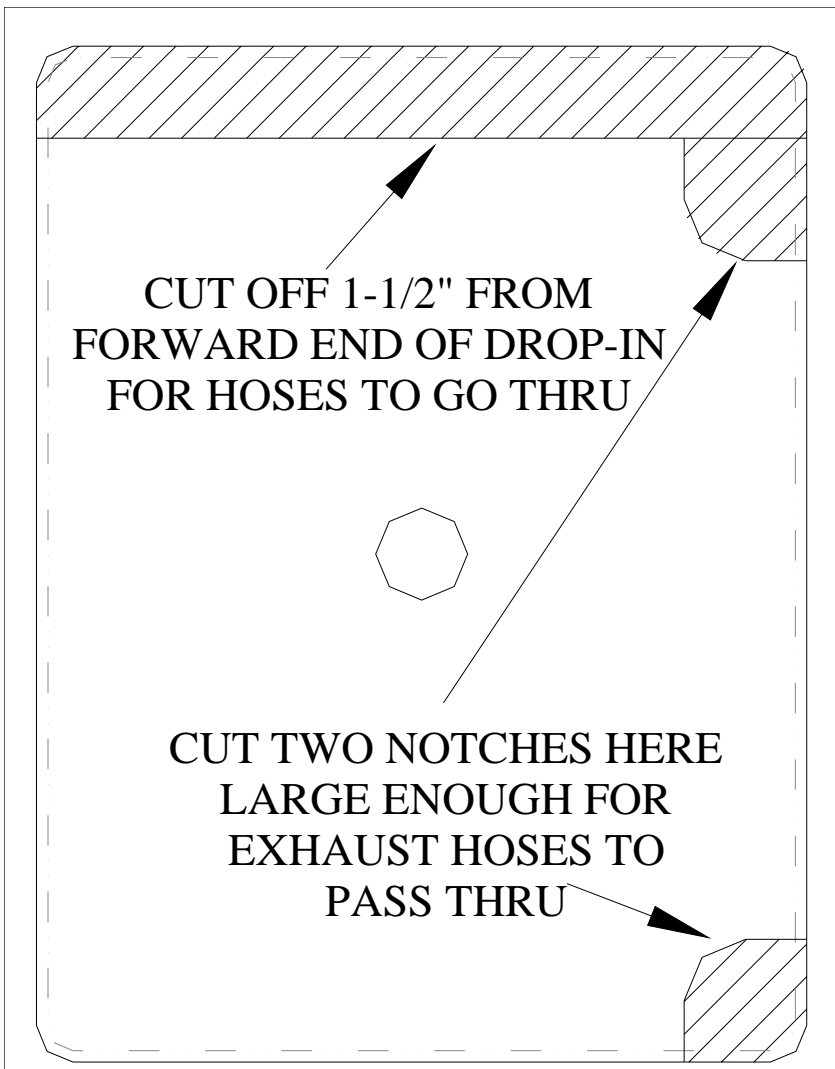
## **OTHER ENGINE STAGE SOP'S PERTAINING TO THE GENERATOR INSTALLATION**

1. Generator Pickup Thru Hull
2. Generator Discharge Thru Hull
3. Generator Exhaust System
4. Generator Fuel Filter
5. Generator Fuel Pump
6. Generator AC Control Box
7. Generator Overflow Bottle
8. Generator Air Vent

# 41 SOP GENERATOR INSTALLATION Page 3 of 5



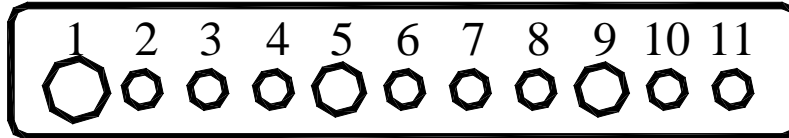
One of the four feet that come with the generator. The bolt in the top is metric so don't lose it.



**41 SOP GENERATOR  
INSTALLATION** Page 4 of 5

# FRONT OF GENERATOR BASE

1	SEAWATER IN
2	FUEL IN
3	FUEL OUT
4	FUEL PUMP
5	OIL DRAIN HOSE
6	12 x 1 REMOTE CONTROL
7	EMPTY
8	EMPTY
9	MAIN POWER
10	BATTERY -
11	BATTERY +

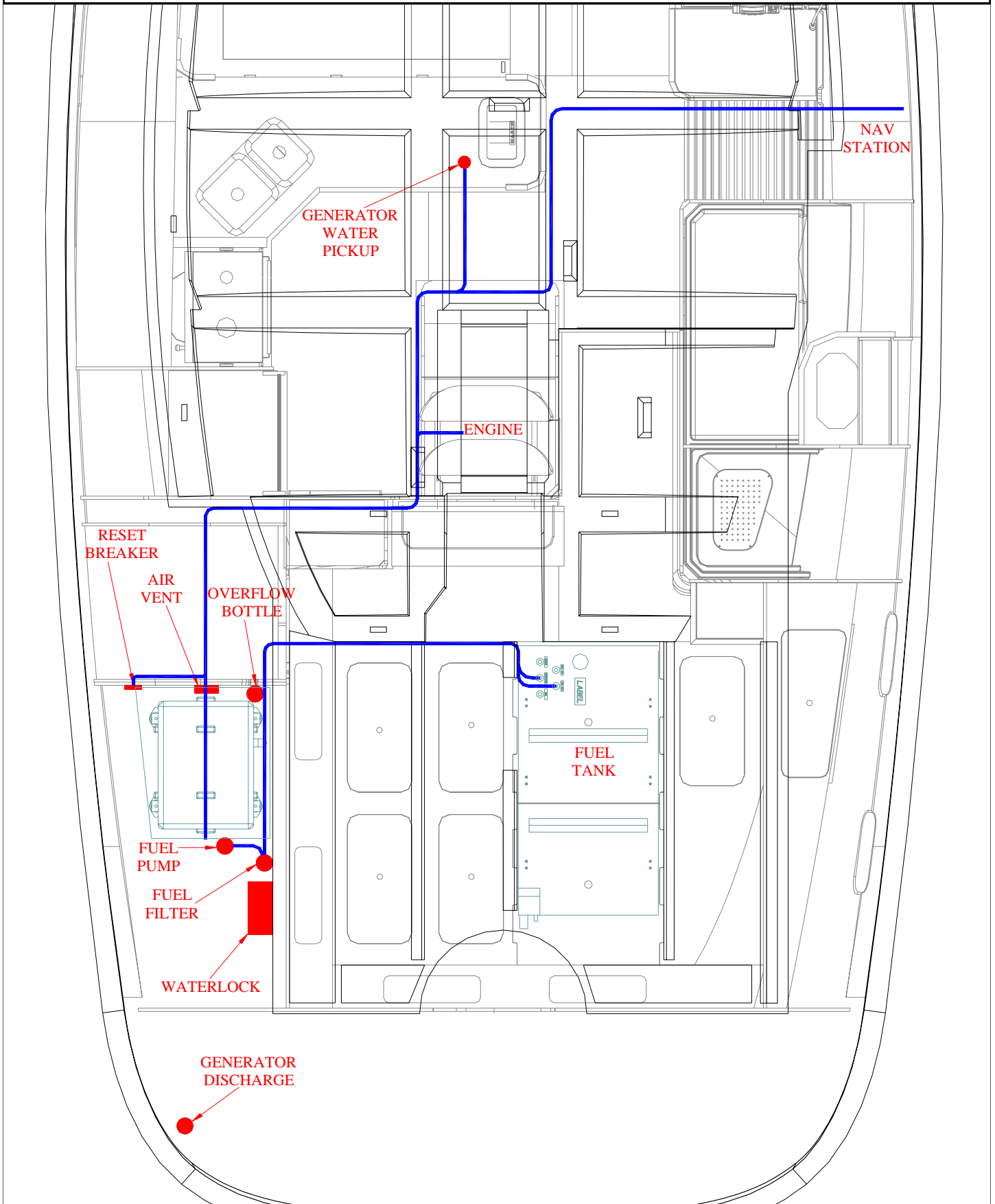


- |  |  |   |
|--|--|---|
| #1--HOOKS UP TO GENERATOR PICKUP           | #4--HOOKS UP TO FUEL PUMP POWER                    | #10--HOOKS UP TO GROUND ON THE ENGINE   |
| #2--HOOKS UP TO FUEL PUMP                  | #5 DROPS DOWN INTO COMPARTMENT UNDER THE GENERATOR | #11 --HOOKS UP TO STARTER ON THE ENGINE |
| #3----HOOKS UP TO FUEL TANK "GEN RET" BARB | #6 & #9 GO TO NAV STATION                          |   |

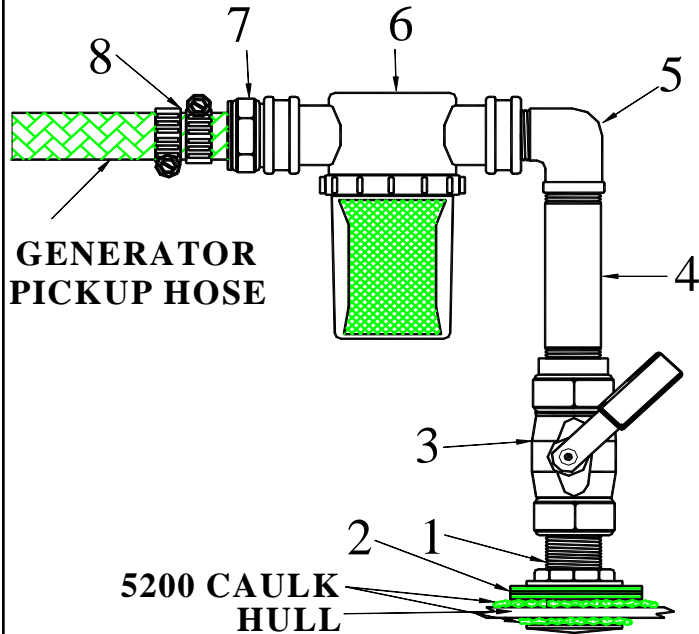
**SEE SCHEMATIC ON NEXT PAGE  
FOR ROUTING OF HOSES & WIRES**

Number 4, 5, 6, & 9 come attached to the generator. Number 1, 2, & 3 are hoses (the water pickup and two fuel lines) that do not come with the generator and will need to be attached with the appropriate size hose clamps. Number 10 & 11 (2 gauge, 13 feet long, one yellow, one red) are electrical cables and will also need to be attached to the generator. These cables will have a 3/8" eye on one end and a 5/16" eye on the other, the ends with the 5/16" eye will be attached to the generator.

# 41 SOP GENERATOR INSTALLATION Page 5 of 5



# 41 GENERATOR PICKUP INSTALLATION SOP



#	#Ea.	Description	Size	Part #
1	1	Brass Through-hull Kit	3/4"	352617
2	1	Wood Doughnut	1/2"	N/A
3	1	Ball Valve	3/4"	353931
4	1	Nipple	3/4" X 4"	
5	1	Street Elbow	3/4"	355803
6	1	Strainer	3/4" Line	352797
7	1	Plastic Hose Barb	3/4"	
8	2	Hose Clamp	#12	353373
9	N/A	Rectorseal	N/A	
10	N/A	High Tack Gasket Sealant	N/A	
11	1	"GENERATOR PICKUP" " Label		285402

1. The generator is an option in the 40 so the pickup hole will need to be drilled. See "Through Hull Hole Locations" SOP location and hole size.
2. Install the through hull fitting as per the generic " THRU HULL FITTINGS" SOP.
3. After the thru hull is installed, attach the ball valve to the thru hull fitting (use "Rectorseal" pipe compound on this and all other connections) so the handle is on the aft side of the valve.
4. Attach the 4" nipple to the ball valve.
5. Attach the street elbow to the 4" nipple and make sure the elbow faces port-aft.
6. Attach the line strainer to the elbow making sure the arrow on top of the strainer points away from the ball valve (it may make it easier to install the strainer after removing the bowl).
7. Attach the hose barb the strainer.
8. Coat the inside of the generator pickup hose with "Loctite High Tack Gasket Sealant" then attach the hose to the hose barb using two #12 hose clamps.
9. Attach the "GENERATOR PICKUP" label to the hull by the thru hull fitting.



# 41 SOP GENERATOR OVERFLOW BOTTLE INSTALLATION

1. The generator overflow bottle comes with the generator package. The unit will be mounted on the bulkhead just forward of the generator, inboard of the vented loop.
2. The hose clamps holding the overflow bottle to the bracket will need to be removed to have access to the mounting holes. Place the bracket under the trim on the bulkhead & secure it to the bulkhead using four #8 x 1/2" panhead screws.
3. Cut the 5/8" clear tube coming from the backside of the generator to the correct length then attach it to the nipple on the bottom of the overflow bottle & secure with a hose clamp. Cut the 1/4" clear tube coming from the back of the generator to the correct length then attach it to the nipple at the top of the bottle & secure with a hose clamp.
4. Attach the bottle back onto the bracket with the large hose clamps that secured it before.
5. Fill the overflow bottle to the "fill line" on the side with anti-freeze. After the generator is started air may come out of the system and more anti-freeze will need to be added, but this will be done when the boat is in the pond.



# 426 SOP GENERATOR FUEL PUMP INSTALLATION

1. The generator is an option in the 426. This SOP will address the installation of the generator fuel pump.
2. The generator fuel pump will be located above the engine fuel filter and the generator fuel filter on the inside of the starboard face of the engine box. Starboard (white plastic) is already mounted in the engine box for all of the components that are mounted there except the fuel filter. Using four #10 X 1-1/4" flathead screws mount a piece of 4" X 6" X 1/2" starboard so it is centered forward to aft and centered between the top of the fuel filter starboard piece and the top of the engine box.
- 3.

#	#Ea.	Description	Size	Part #
1				
2				
3				
4				
5				
6				
7				
8				
9				

# 426 SOP GENERATOR FUEL FILTER INSTALLATION

1. The generator is an option in the 426. This SOP will address the installation of the generator fuel filter.
2. The generator fuel filter will be located just forward of the engine fuel filter on the starboard wall inside the engine box.
3. Before attaching the fuel filter prepare it by attaching the elbows and hose barb-----

#	#Ea.	Description	Size	Part #
1				
2				
3				
4				
5				
6				
7				
8				
9				

Revision Dates:

Expected Time:

Page