

426 SOP GENERATOR INSTALLATION Page 1 of 4

1. The generator is an option in the 426. 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 11 outlets for hoses and/or wires (see pictures for clarification). When installed in the boat, the front of the generator will face inboard.
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 the hoist that is used to lift the engine into place, lift the generator up and over the engine box into the galley area. Because the location of the generator is not centered in the hull another hoist (the one over the starboard side of the boat) will need to be attached to the lifting chain strap.
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 generator is located under the chart locker seat, this compartment will need to be removed before the generator can be installed. Now with both hoists attached, maneuver the generator into position, use caution as there is not much room and the metal bars on the bottom of the generator (where the feet attach) have sharp corners and will dig into the bulkheads and other furniture. The fit is extremely tight, so there will be basically no adjustment, forward to aft, or, port to starboard.
5. After the generator has been lowered into place it will need to be raised enough to attach the feet to the metal bars on the bottom of the generator. The feet cannot be attached beforehand as there is not enough room to fit into the cutout in the sub-floor. When raising the generator enough to install the feet the hoists may need to be used independent of each other to raise the front and/or back. **NOTE: The mounting bolts that come with the feet are metric threads so do not lose them as there are no replacements here.** The feet will need to be turned so the mounting holes are located over an area that they can be secured to, once they are properly orientated tighten the bolts.
6. One side of the generator will possible need shims under the feet to keep it parallel with the floor. Use the same shims that are used on the engine but cut them in half for a better fit. Once the correct thickness of shims has been determined and positioned, drill thru the mounting holes in the feet with a 3/16" drill bit and secure the generator to the boat with 1/4" x 2" lag bolts using flat washers and lock washers.
7. See the attached diagram "Front of the generator base" to run the wires and hose coming out of the generator to their correct locations.

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

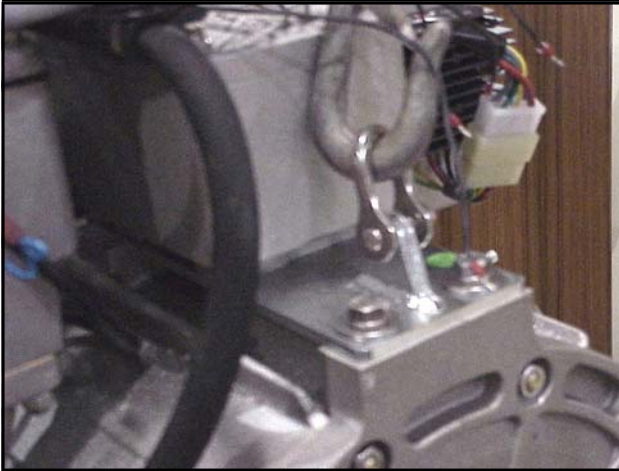
#	#Ea.	Description	Size	Part #
1	1	Generator	7.2 KW	312655
2	1	Water Pickup Hose	3/4" X 5'	358215
3	2	Pickup Hose Clamp	#12	353373
4	2	Fuel Hose Type A	26' Total	357927
5	12	Fuel Hose Clamp	#4	353283
6	4	Lag Bolts	1/4" x 2"	
7	4	Flat Washer	1/4"	
8	4	Lock Washer	1/4"	

Revision Dates:

Expected Time:

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



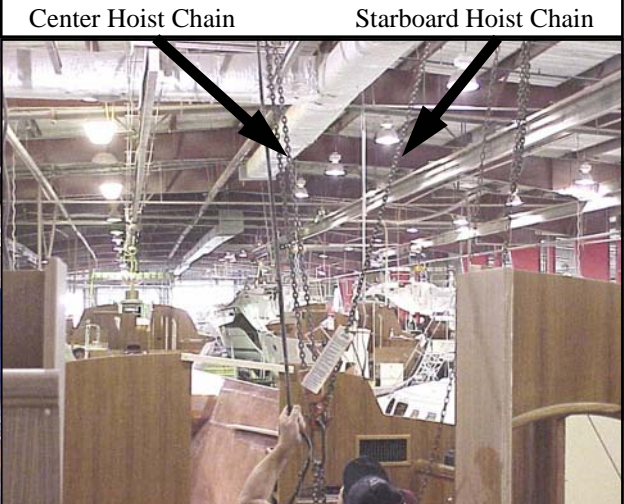
Using the center hoist lift the generator into the boat



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.



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.



Center Hoist Chain Starboard Hoist Chain

The starboard hoist will need to be attached to the lifting chain strap so the generator can be lowered into position

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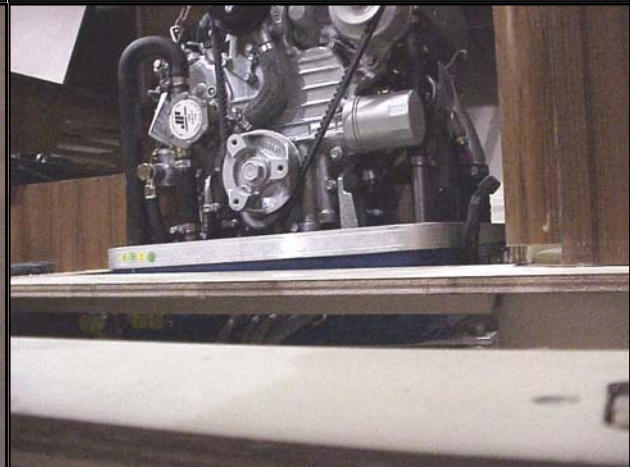
Carefully lower the generator into position using both hoist.



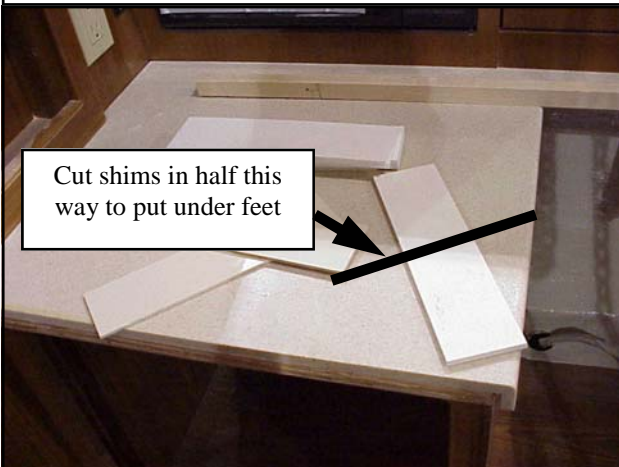
One of the four feet that come with the generator. The bolt in the top is metric so don't lose it.



The feet will need to be installed at an angle so the mounting locations have



Notice that generator is not parallel to the sub-floor. Shims will need to be placed under the forward feet.

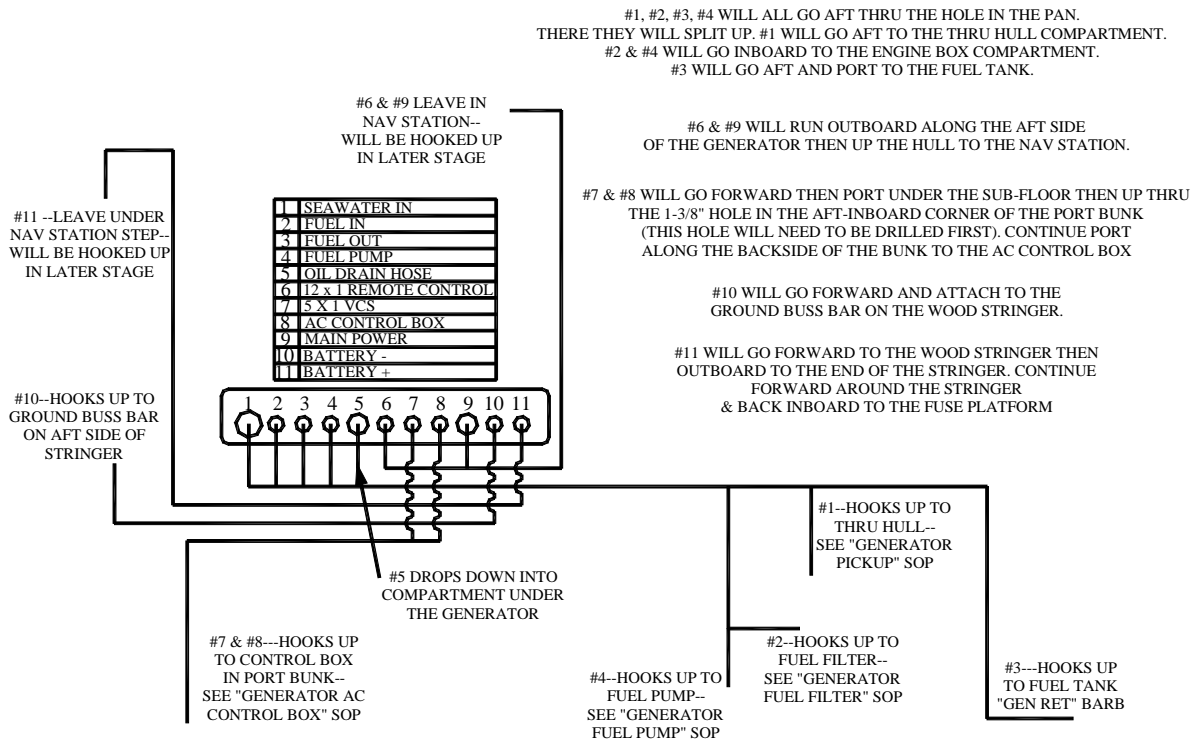


Cut shims in half this way to put under feet

Use engine shims cut in half to level the generator.

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FRONT OF GENERATOR BASE



Number 4, 5, 6, 7, 8, & 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 (2 gauge, 3 feet long) & 11 (2 gauge, 8 feet long) 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.



Numbers 1, 2, 3, & 4 going aft thru the hole n the pan.



Ground cable (#10) running forward and attached to the ground buss bar on the wood stringer under the sub-floor.