

# 48 Module Pan Sub Assembly

## Bilge Plumbing Hoses Installation (02-14-2006) Rev-A

### **HW Bilge & Manual Bilge Hoses :**

1. Run and install high water bilge hose and manual bilge hose after pan has been cut. Run High water bilge hose thru port side under pan bonded PVC pipe, from fwd end of the PVC pipe going afterward then pull the other end of the hose out from QB port side pan stringer oval cutout. Insert fwd end of the hose inboard thru main bilge pan oval cutout ( **High Water Bilge Hose is  $\phi$ 2-1/2" x 30 ft Long**)
2. Run and install high manual bilge hose and manual bilge hose. Run the hose thru starboard side under pan bonded PVC pipe, from fwd end of the PVC pipe going afterward then pull the other end of the hose out from QB starboard side pan stringer oval cutout. Insert fwd end of the hose inboard thru main bilge pan oval cutout ( **Manual Bilge Hose is  $\phi$ 1-1/2" x 30 ft Long**).

### **Port Side Pan Sub Assembly Plumbing Installation:**

1. Run aft macerator and optional overboard discharge hoses from main bilge discharge compartment to aft vanity compartment ( fwd of aft waste tank) (both hoses are  $\phi$ 1" whitewall)
2. Run engine pick up and optional generator pick up hoses from main bilge discharge compartment going afterward to engine shaft compartment. ( engine pick up is  $\phi$ 1" and generator pick up is  $\phi$ 3/4").
3. Run aft vanity drain hose from main bilge discharge compartment thru port side stringer going afterward to aft vanity compartment. ( aft vanity drain is  $\phi$ 1" ).
4. Install all fittings to aft waste tank ( apply pipe thread sealant to all fitting installation).
5. Install aft waste tank deck extraction hoses, waste inlet hose, vent hose, waste pick up hose to this waste tank ( see figure in the following page)

### **Aft macerator, aft sump pump & oil changer Panel Installation:**

1. Mount and install macerator, aft sump pump and oil changer on 2 side mica wood panel with 1/2" thick. ( see figures), install this panel to stringer using 4 pieces L brackets.
2. Install optional diverter valve on designated platform then install the diver valve assembly on aft inboard corner of the vanity compartment then install waste inlet hose to diverter and connect overboard discharge hose to the diverter valve, connect and install waste inlet hose ( from electric toilet) to diverter valve, secure all hoses to diverter valve using 2 designated hose clamps each fitting.
3. Connect aft waste tank waste pick up to aft macerator then connect macerator discharge hose to this macerator ( the hose goes to main bilge discharge compartment), secure both hoses to macerator using 2 designated hose clamps each hose. Install oil changer drain hose clips on stringer of this compartment.

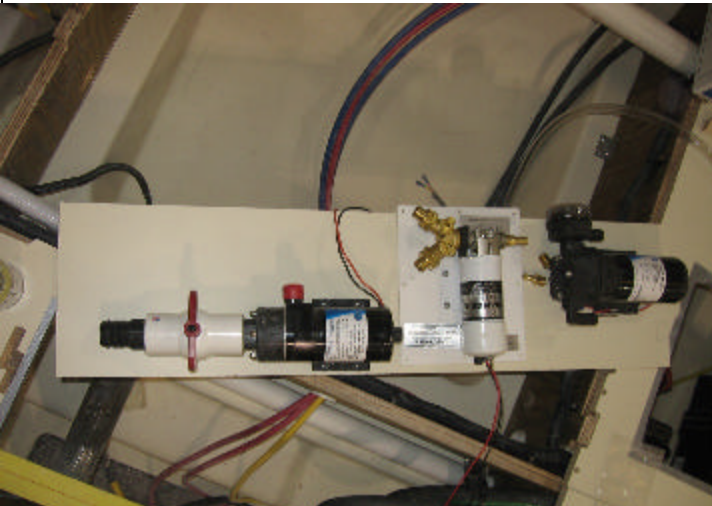
### **Port side Water Fill & Vent Hoses :**

1. Install water fill & vent hoses to both port side fresh water tanks, secure all hoses to their fitting using 2 designated hose clamps on each hose.
2. Run port side water fill & vent hoses forward for further installation.

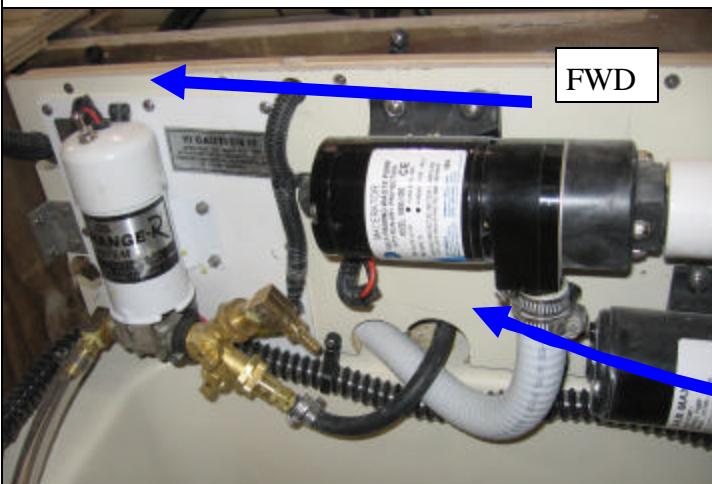
### **Port Fwd Waste Plumbing Installation:**

1. Install all designated fittings to fwd waste tank, connect waste extraction hose, discharge hose, inlet hose, vent hose to this tank ( see figures in the following page)
2. Mount and install macerator on starboard aft corner of V berth longitudinal stringer with its discharge fitting facing outboard, then install waste discharge hose to macerator and install macerator discharge hose to macerator, secure hoses to macerator using 2 designated hose clamps each hose.
3. Install optional diverter valve aft to V berth starboard aft lateral stringer, 4 pieces 1/4 thick starboard material are required to stack together as diverter valve's platform.
4. Connect and install waste inlet hose, overboard discharge and waste inlet hoses to diverter valve, secure all hoses to diverter using 2 designated hose clamps each hose.

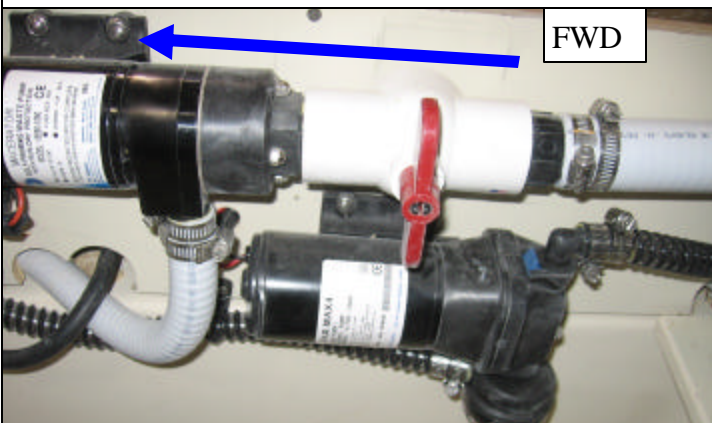
# 48 Module Pan Sub Assembly Port Aft Waste Plumbing Installation



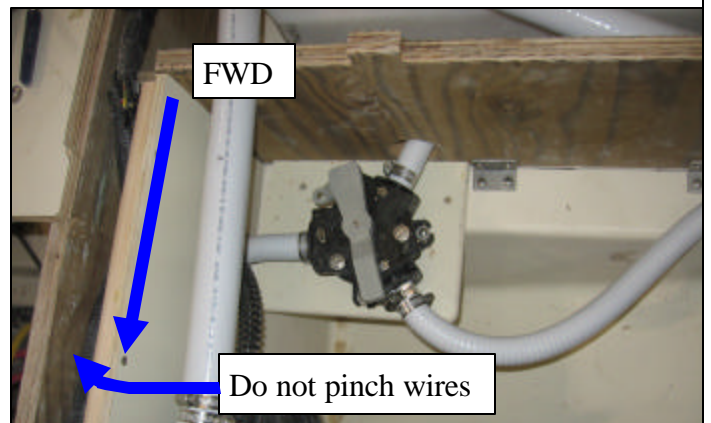
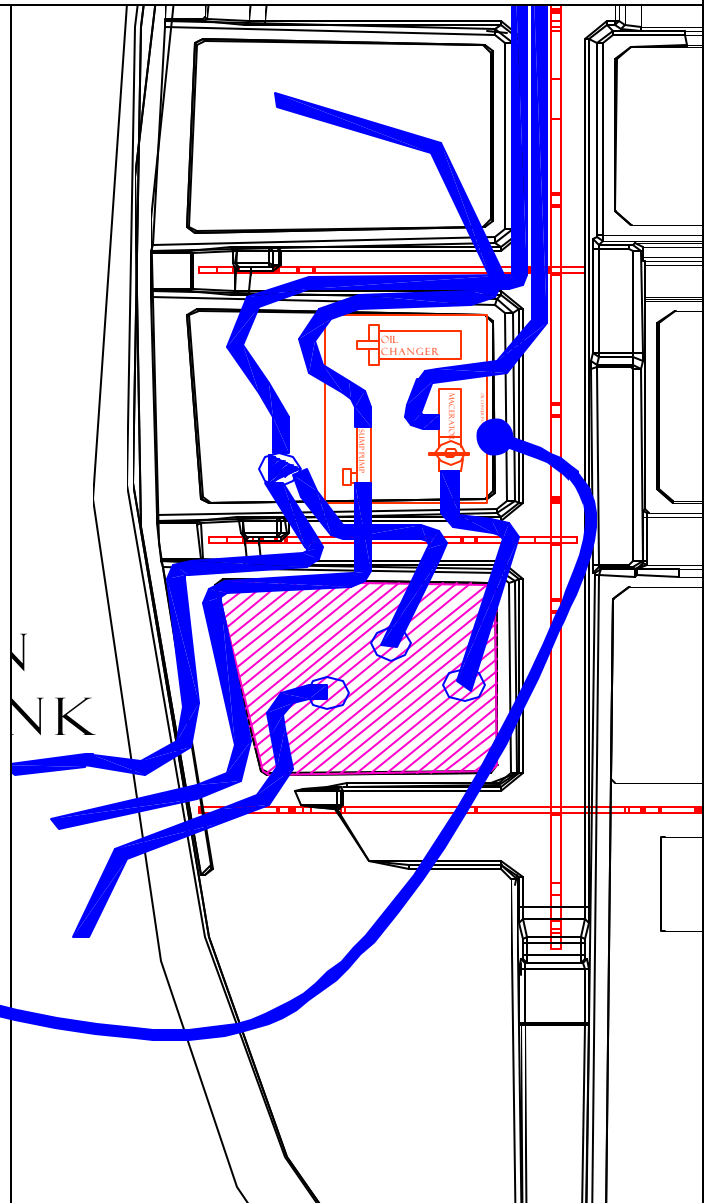
Mount and install macerator, aft sump pump and oil changer on 2 side mica wood panel with 1/2" thick



Install macerator discharge hose to macerator, ensure the macerator is not mounted too high.

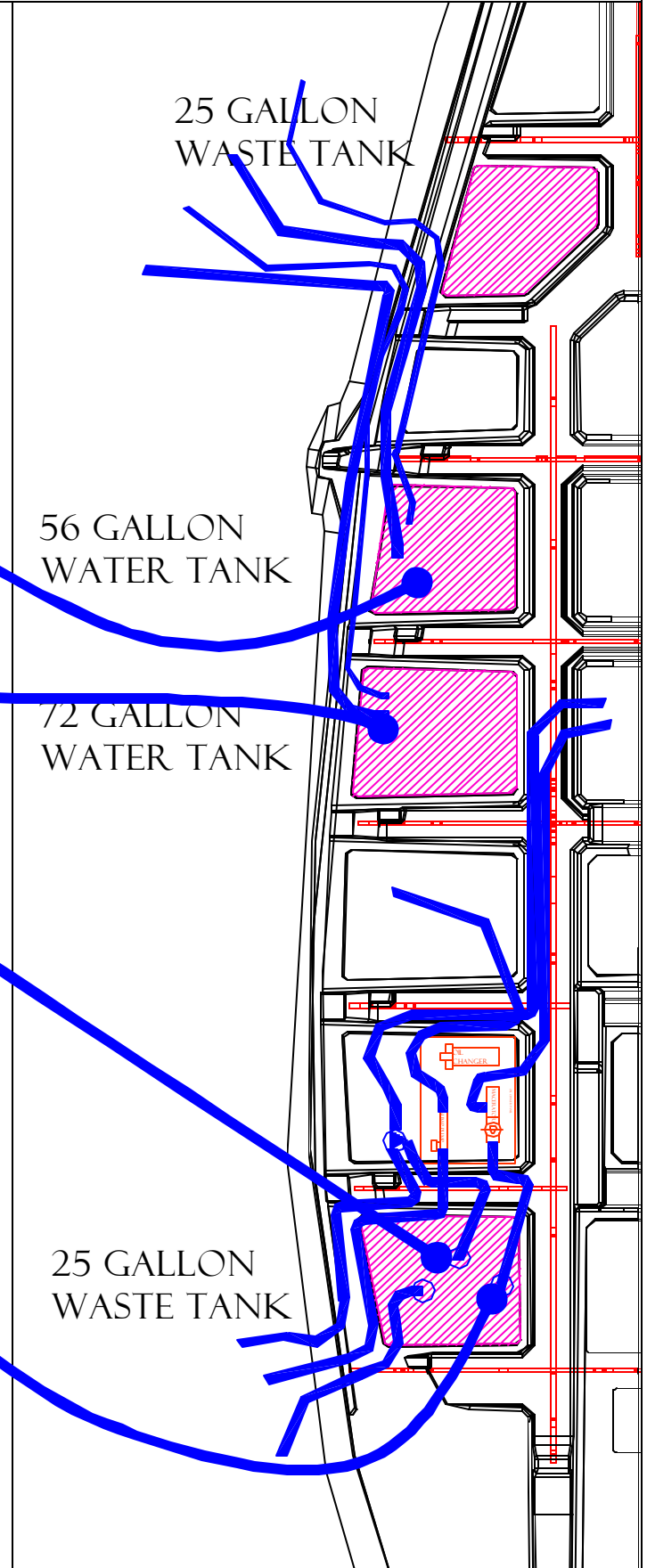
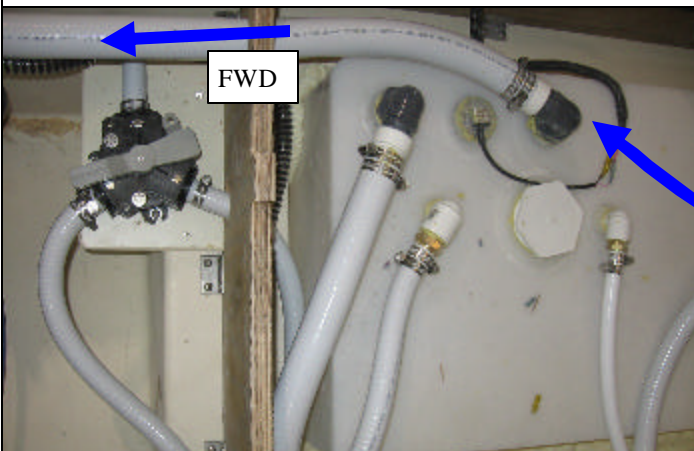
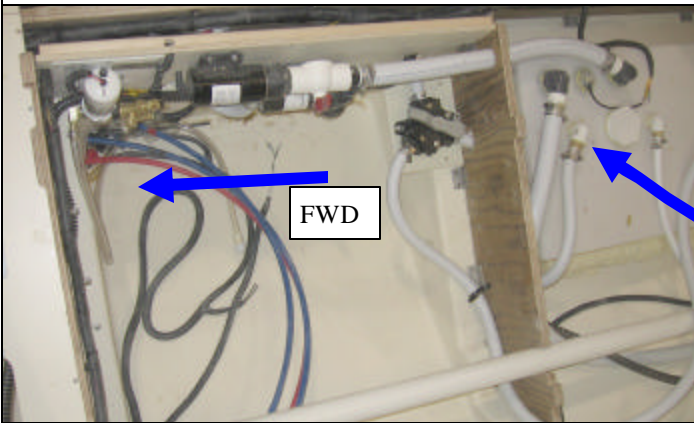


Install macerator ball valve like this, the hose on the right hand side goes to aft waste tank.

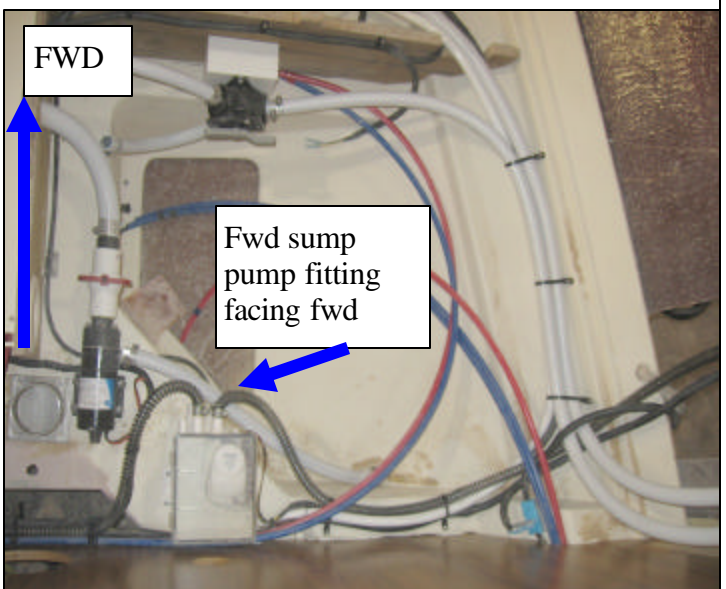
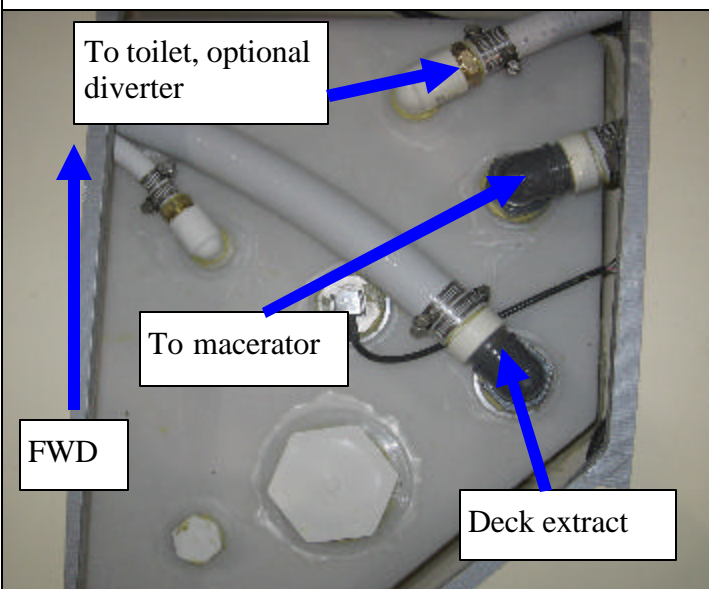
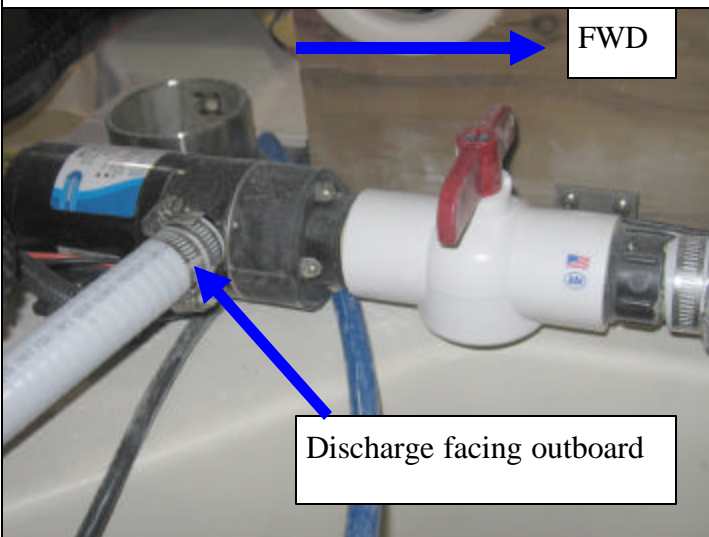
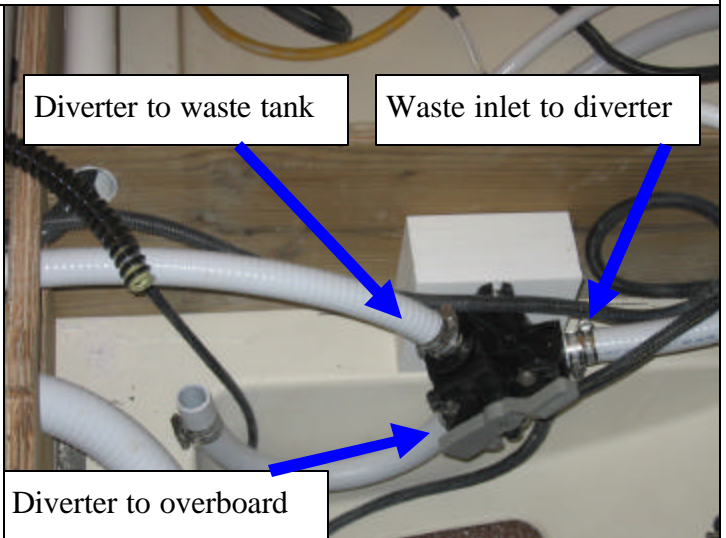
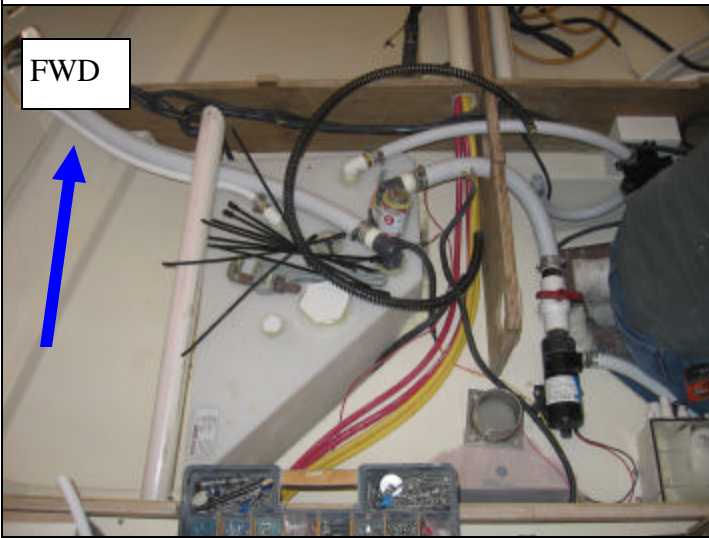


Mount platform then install the diver valve assembly on aft inboard corner of the vanity compartment

# 48 Module Pan Sub Assembly Aft Waste Plumbing Installation

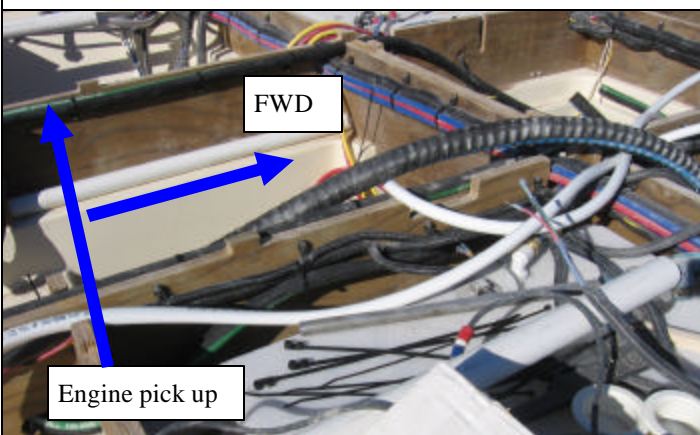
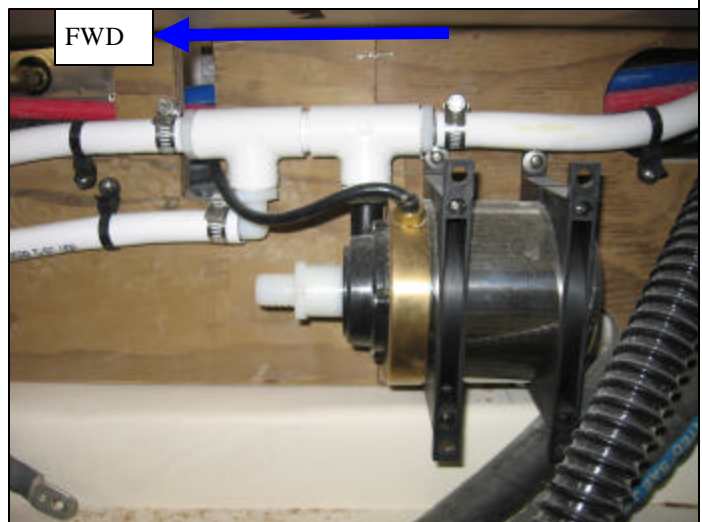
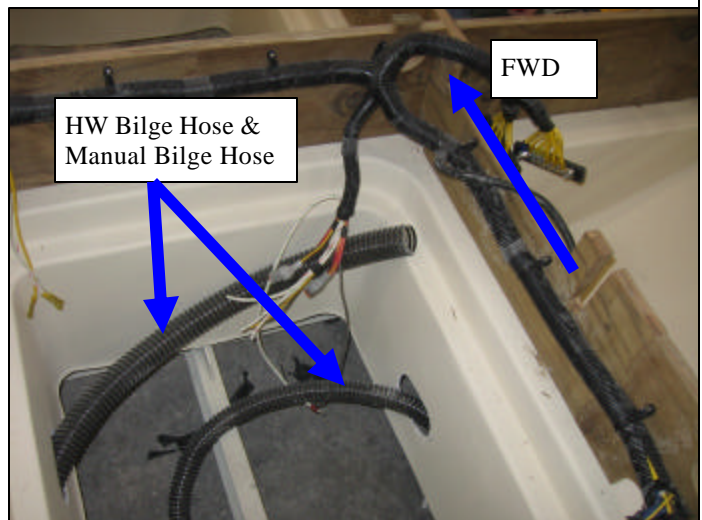
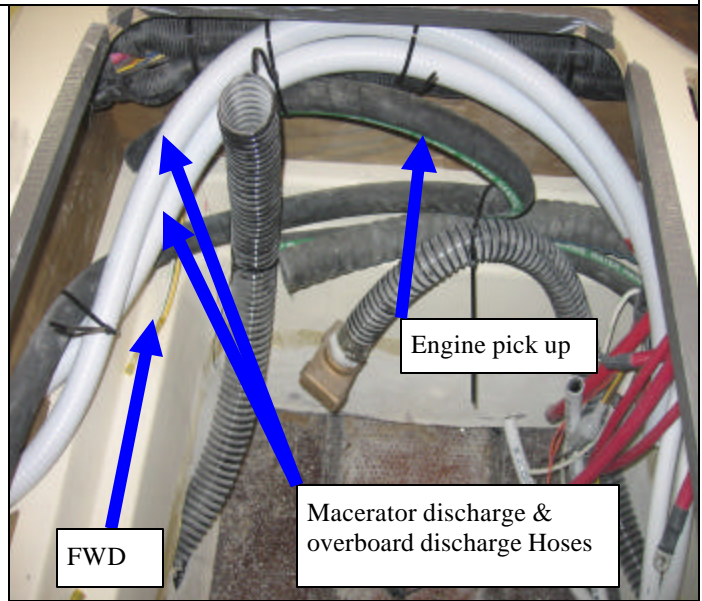


# 48 Module Pan Sub Assembly Fwd Waste Plumbing Installation



## 48 Module Pan Sub Assembly Main Bilge & System Plumbing Installation

1. Run water heater hoses from water heater compartment afterward thru lateral stringers then turn inboard when meets longitudinal stringer oval cutout at engine compartment.( both hoses are hard-wall &  $\phi 5/8''$ ).
2. Run air conditioning pick up hoses, there are 3  $\phi 5/8''$  white-wall hoses for water pick up. Start from main bilge discharge compartment, run fwd A/C hose along starboard side longitudinal stringer forward to V berth vanity pan compartment, run main cabin A/C pick up hose to main cabin A/C platform, then run aft A/C along starboard side longitudinal stringer afterward near by fuel tank location, tie wrap A/C pick up hoses to stringer. ( A/C pick up pump will be mounted on starboard side longitudinal stringer at main discharge bilge compartment).
3. Run engine pick and engine feed hoses, both hoses are hard-wall  $\phi 1''$ , run engine pick up hose from main bilge compartment port side going afterward along with stringer, leave the other end of the hose at engine shaft compartment. Engine feed hose will be installed during engine stage.
4. Run galley drain hose, live-well hose is  $\phi 1''$ . Run this hose from main discharge compartment thru starboard side stringer leave the hose in galley compartment for further installation.
5. Run water heater pop off hose, this hose is  $\phi 5/8''$  hard-wall hose, run this hose starts from water heater compartment going forward to fwd vanity compartment, tie wrap this hose.
6. Install 2 plastic tees and adapters for A/C pickup pump. (see figure)



## 48 Module Pan Sub Assembly System Plumbing Installation



This shows mid A/C platform, leave A/C pick up hose here.



Water heater hose run inboard thru stringer to engine compartment

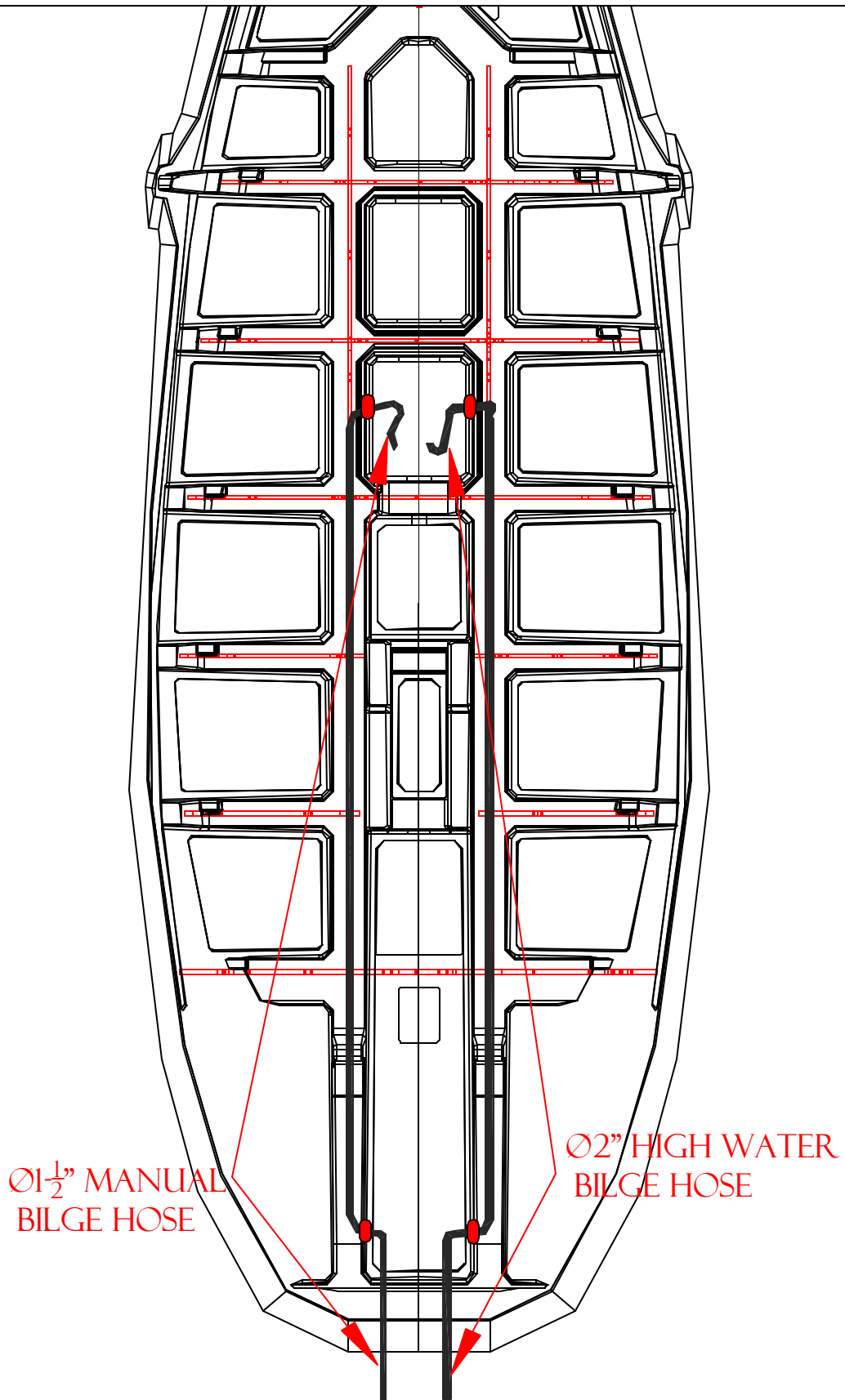


Water heater compartment, leave water heater feed and return hoses here.

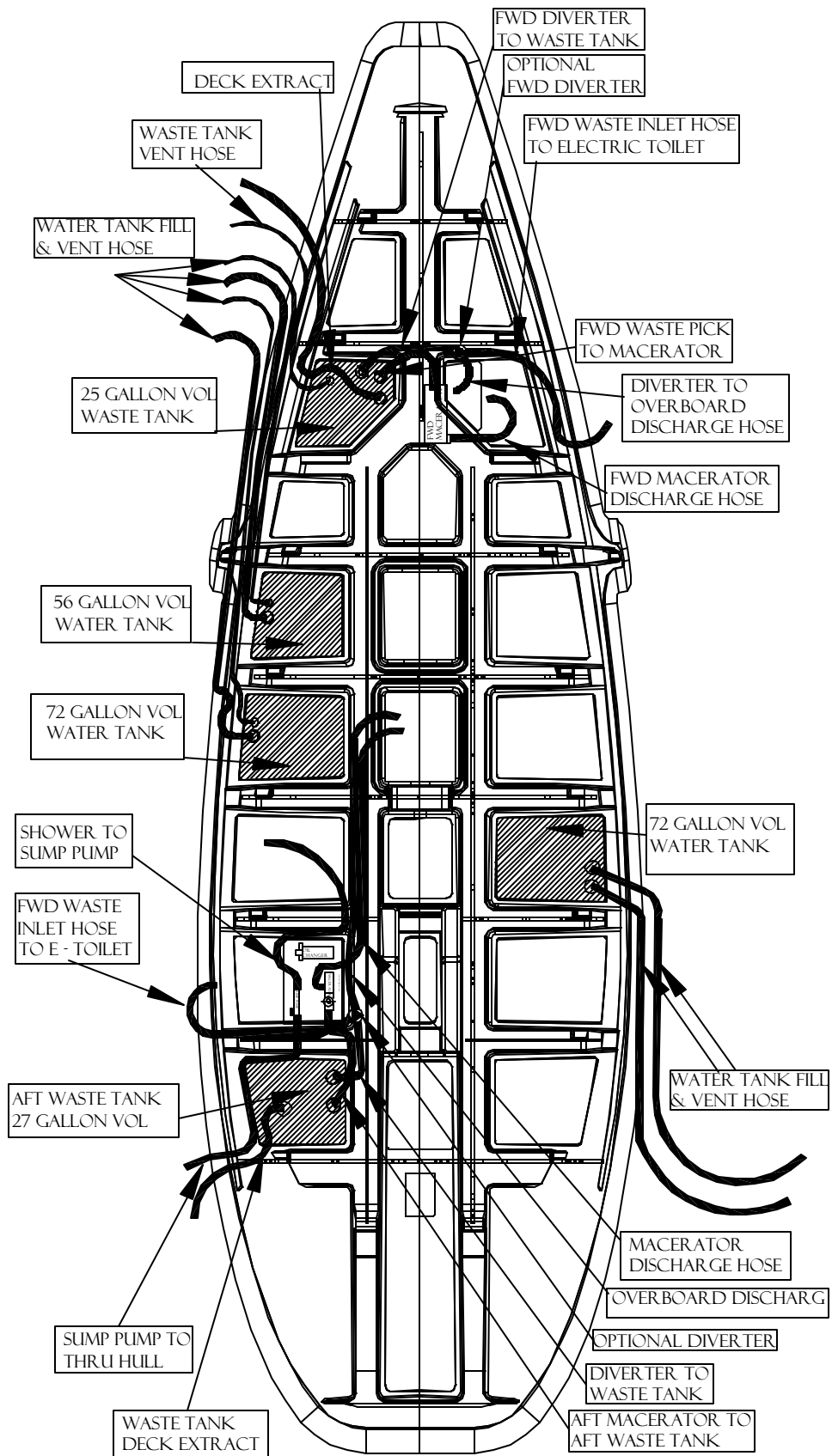


Run flexible air duct thru stringer from A/C compartment to mast post base compartment ( fwd house battery compartment)

# 48 Module Pan Sub Assembly Manual & High Water Bilge Hoses Installation

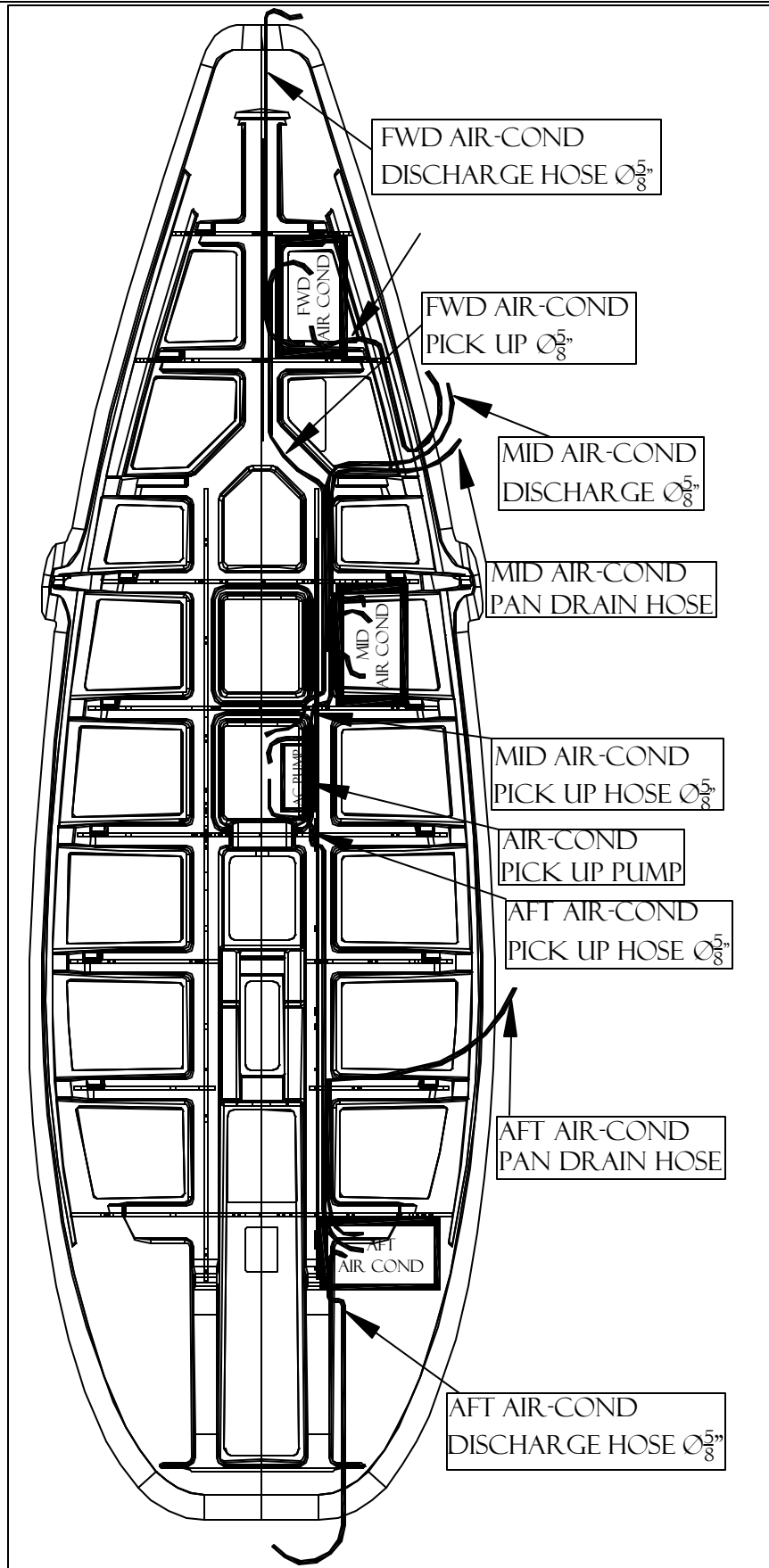


# 48 Module Pan Sub Assembly Waste Plumbing Installation





# 48 Module Pan Sub Assembly Air Conditioning Plumbing Installation



# 48 Module Pan Sub Assembly Bilge Plumbing Installation

