12/24V DC Oil Change Systems

Installation Instructions

Installation

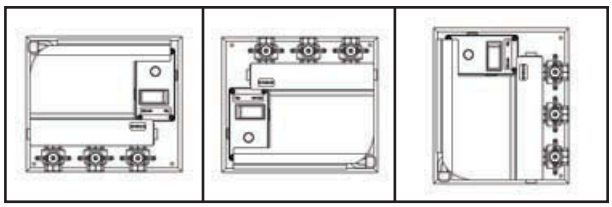


Fig. A

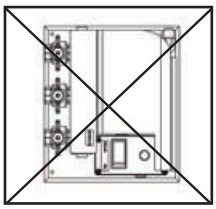
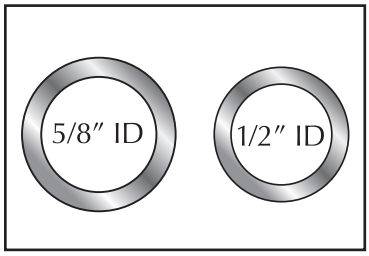
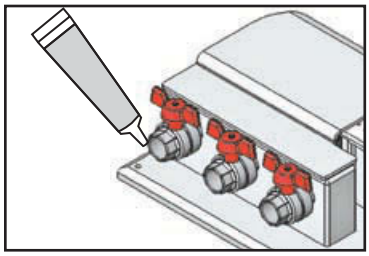


Fig. B

1. Unit can be mounted in either directions shown in Figure A. Do not mount unit in orientation shown in Figure B.



2. Connect hoses to the valves and the fill discharge fitting. A minimum 1/2” ID is recommended; 5/8” ID hose is preferred.



3. Use a back up wrench to hold the valves from rotating when installing the hose fittings. Apply a compatible pipe sealant to all connections. (Loctite 565 or equivalent)

Technical Specifications

Model	Engine to System	System to Containter	Maximum Total Length	Wire Gauge Minimum	12 Volt Breaker	24 Volt Breaker
OP-700 Series	5’	5’	10’	#14	15 amp	10 amp
GP-3010 Series	8’	5’	13’	#14	10 amp	5 amp
GP-3020 Series	12’	20’	32’	#14	20 amp	10 amp
GP-700 Series	15’	40’	55’	#12	20 amp	10 amp

Most new engines come with oil pan adapters. If not, install oil pan fittings to the engines that will be serviced by the system. Ensure that the fitting has a minimum internal diameter of 1/4”. (Reverso carries a complete selection of oil pan fittings for most engines, generator engines and transmissions).
Install the proper hose connection to the pan fitting. Avoid the use of elbows or any other tight bends in the hose runs. Install a clamp or strap every 18” to adequately support the hose. Use care when installing hose runs to avoid any kinks or excessive bends in the line that would restrict the flow of oil.
NOTE: The valves have 1/2” NPT female thread (National Pipe Thread). The fill/ discharge fitting is 1/2” SAE male flare.

Warning

Care must be taken not to operate the pump with either the suction or discharge sides closed. Ensure that one valve is open prior to starting pump operation. Pumps can generate extremely high pressures which can damage plumbing and/or the pump.

Electrical Connection

The electrical installation of this product must be executed by a qualified marine electrician and following the ABYC requirements. Be sure that the power source available matches the power requirements on the spec sheet for this product model.

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Operating Instructions

System Priming

To initiate suction and avoid unnecessary wear on the pump by running them dry, it is necessary to prime the pump before initial use. Once the system is primed, this procedure does not have to be repeated again. The residual oil in the manifold and lines is sufficient to prime and lubricate the gears for subsequent use. Follow the procedure below to prime the system.

1. Pour a small amount of liquid to be pumped (about 3 oz.) into the fill/discharge hose.
2. Open one valve on the manifold.
3. Place the fill/discharge hose in a container of new oil.
4. Operate the pump for a few seconds to draw this liquid into this line. (Pump toward the engine)
5. Repeat steps #2 - #4 for each valve on the manifold.

Figure A: Typical Installation

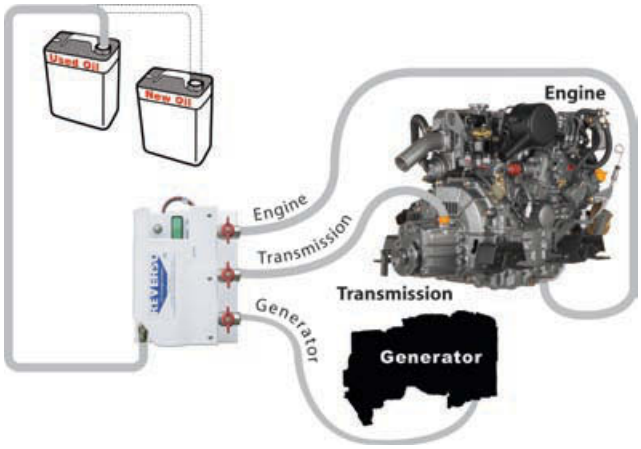
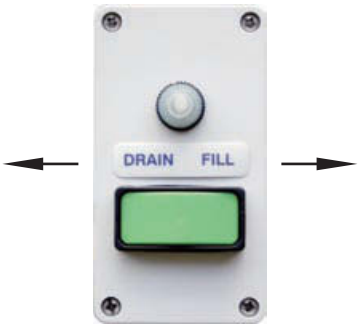


Figure B



Operation

1. Figure A: Place drain hose from the oil change system unit into your waste bucket.

2. Figure A: Open manifold drain valve - you'll have the choice to draw from the engine, transmission, or Gen-Set (unit comes with labels to indicate source).
   Only open one valve. The unit is not designed to pull from more than one valve at a time.

3. Figure B: Move the switch to Drain position to move oil to the waste bucket.
   Do not leave pump unattended. This could result in running the pump completely dry and/or overfilling and spilling oil.
   Once flow has stopped, turn the unit off.
   Repeat process with other valves for additional locations.

4. Remove the hose from the waste bucket; place it in the new oil bucket.

5. Move the switch to the fill position to refill the system with appropriate fluids one valve at a time.
   Close valves once finished.

Troubleshooting

- Ensure all connections have been properly tightened
- Correct wiring and voltage
- Verify fittings, valves, and hoses, have the correct I.D. (inside diameter)
- Components with I.D.'s smaller than 3/8" can cause the fuse/breaker to fail.

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