

WSC-60 and WSC-80 Water Pressure Systems

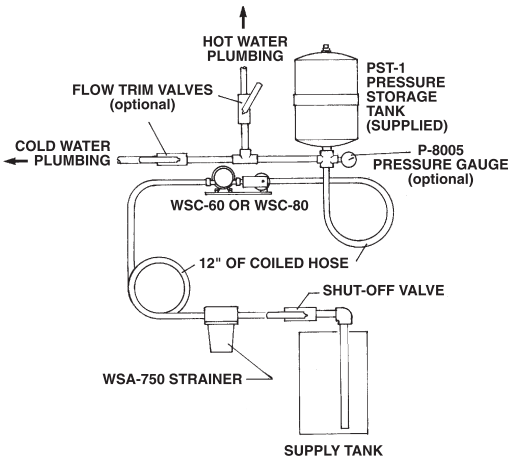
Installation, Operation, and Maintenance

Installation: The pump motor is not waterproof, so installation must be in a dry location, not more than 10-feet away from or 2-feet higher than the water supply.

PST-1 pressure storage tank may be located anywhere in the cold water plumbing after the pump. Installation of PST may be in any position that allows for air charge adjustment.

Plumbing: Plumbing should be 3/4" ID reinforced hose between the supply tanks and the pump, and between the pump and the PST-1 pressure storage tank. After PST-1 hose size may be reduced to as small as 3/8" if desired.

The pump inlet is threaded for garden hose connection outside and 1/2" NPT inside. The check valve outlet is threaded for 3/4" FNPT.



Electrical: Proper wire size is essential for proper system operation. Refer to the wire size selection chart packaged with this product. Connect (+) power and (-) ground as indicated by the label adjacent to the

terminal block. Use ring terminals for electrical connections.

Water Filters: The use of a coarse 40-mesh water strainer (GROCO WSA-750) to filter supply tank debris is permissible. Installation should be as near the supply tanks as possible and in a serviceable location.

We do not recommend the use of water filters or water purifiers to improve water taste. Such filters impose considerable restriction to the pump's ability to provide the pressurized flow you desire. If however you choose to use a filter, it must be located after PST-1.

System Start-up: Double-check all plumbing connections for tightness; an air leak will prevent pump priming and normal operation.

To help with initial pump priming pour a small amount of water into the pump inlet before applying power for the first time. Open all faucets and shower head half-way and apply power at the breaker panel. The pump should prime itself and begin delivering water. As a smooth flow comes from each faucet, shut it off. When the shower head and all faucets are closed, WSC will build pressure and shut off. This may take several minutes if the boat is equipped with a water heater.



If the pump primes and pumps smoothly but will not shut off, check for water leaks on the pressure side, and verify that proper wire size has been used.

Dry Tank Shut-down: WSC water pressure systems are equipped with GROCO's exclusive ETM timer. ETM will interrupt power to the pump motor if it runs non-stop for 6-minutes. A pump properly sized for the boat will "cycle" by building up pressure and shutting off, even if you are drawing water continuously. For example, WSC-80 will deliver up to 7 GPM to the system, so its output will exceed the 2 to 4 GPM normally drawn from a shower head or single faucet. WSC will build up pressure and shut off before ETM times out, which resets the timer.

If ETM ever times out, after filling the supply tanks, interrupt power at the breaker panel for 1-minute. When the power is turned back on the pump will run. Follow normal start-up procedure.

Item	Description	Qty	WSC-60	WSC-80
1	Motor	1	(Voltage)-F	(Voltage)-F-RAE
2	Base	1	B-200	B-200
3	Grommets	4	B-200-G	B-200-G
4	Screw	2	832X38PS	832X38PS
5	Lockwasher	4	10ETS	10ETS
6	Slinger	1	SP-95	SP-95
7	Screw	2	1032X12HS	1032X12HS
8	Pump Housing	1	SP-49-B	SP-49-B
9	Seal Assy	1	69089	69089
10	Snap Ring	1	Snap Ring-1	Snap Ring-1
11	Blades Set	8	SP-98	SP-98
12	Rotor	1	SP-99-A	SP-99-A
13	O-Ring	1	2-034	2-034
14	Cover	1	SP-91	SP-91
15	Screw	3	1024X12HB	1024X12HB
16	Pressure Switch	1	IPS-40	IPS-40
17	Check Valve	1	P-9021-A	P-9021-A
19	Reducer	1	34X12 Nipple	34X12 Nipple
20	Bracket	1	C-59	C-59
NS	Dry Tank Timer	1	ETM (Voltage)	ETM (Voltage)
•	Service Kit	1	P-5	P-5
••	Master Service Kit	1	P-10 Master	P-10 Master

