

DECK PUMPS: Certificated by ISO 8846 DIRECTION CE 94/25N N. 3016808



16.193.12
 Amp draw: 7.5
 Voltage: 12V.
 Capacity: 30 lt./min.
 DIAM. 19mm. HOSE

16.192.12
 Amp draw: 12
 Voltage: 12V.
 Capacity: 45 lt./min.
 DIAM. 19mm. HOSE

16.193.24
 Amp draw: 4
 Voltage: 24V.
 DIMENSIONS: 160X120X80 mm.
 PORT CONNECTION 1/2"

16.192.24
 Amp draw: 6
 Voltage: 24V.
 DIMENSIONS: 180X120X80 mm.
 PORT CONNECTION 1/2"

APPLICATION: Use for bilge pumping, livewell circulation, washdown and general pumping requirements. For intermittent duty, motor may be reversed to empty bait tank. Pump has a dry prime suction lift of about 6 feet (2m) and a lift to 20 feet (6m) when primed. **BE SURE SUCTION LINES ARE AIRTIGHT.**

INSTALLATION: The pump must be mounted in a dry location— even if the motor is waterproof and must not be submerged. **SELECTION OF A COOL VENTILATED location** will generally extend pump motor life. The unit can be mounted in any desired position. It is best to mount so that water dripping from loose port connection will not wet the motor. The pump head may be rotated 180° on the motor to change the direction of flow.

PLUMBING CONNECTION: Pump ports have external 1" hose barb and internal 1/2" pipe threads. Also provided are two male port adapters to allow the attachment of 3/4" female garden hose fittings. Use hose that does not kink when bent and with sufficient wall thickness to prevent collapse when used on suction side of pump. Hoses should be routed so that some water will be retained in pump body to wet the impeller. Wetting the impeller aids in priming and extends impeller life. Use a strainer on the intake hose to stop trash and solids from going through the pump. All hoses must have airtight connections to enable faster priming.

ELECTRICAL CONNECTIONS: Connect black wire to negative (-) terminal of battery. The red wire should run to a properly sized (see electrical specifications) overload protected switch or circuit breaker, with a wire from switch or breaker to positive (+) terminal of battery. Electrical circuit must be independent of all other accessories. Preferred motor rotation is clockwise looking at shaft end of motor. To prolong motor life, install pump so normal motor rotation is clockwise. Use proper wire size as determined by wire table below.

OPERATION: Flexible impeller pumps must NOT be run dry, as the pumped liquid is the lubricant for the impeller. Observe the outlet and shut off pump as soon as liquid stops flowing. An automatic level switch is convenient to control the pump in some applications. The pump cannot run against a closed outlet such as encountered when using a garden hose type shut-off nozzle. Pressure for normal operation should not exceed 20 feet of head (8.7psi). Temperature of pumped liquid may be in the range of 45°-180°F (7° - 82°C).

MAINTENANCE: Check wires and connections to be sure corrosion is not adding additional resistance to the motor circuit and causing a low voltage condition at the motor. Low voltage can inhibit motor from starting and cause fuse to blow. Full voltage should be available to prevent motor damage.

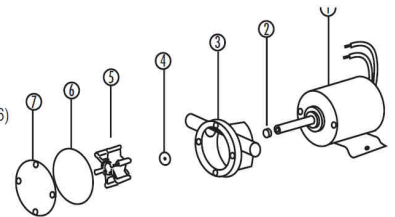
NOTICE: If pump is idle for extended periods, the impeller may stick to the pump body, preventing motor rotation and causing blown fuses. To correct, remove end cover and impeller, clean body and impeller, then lubricate with water or small amounts of grease before assembly. If pump is to be in freezing temperatures, drain by loosening end cover screws. A Service Kit, or at least spare impellers, should be carried aboard to be assured of pumping capability.

DISASSEMBLY

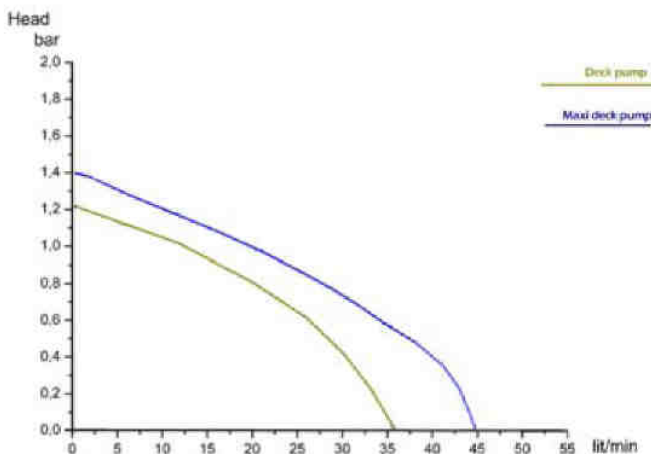
1. Remove end cover screws, end cover and O-ring.
2. Withdraw impeller.
3. Loosen and remove two screws, which attach body to motor.
4. Tap body lightly between ports and remove body from motor.
5. With a 1/2" diameter dowel, push against the shaft seal from back (motor) side of the body to dislodge it from the seal bore. **NOTE:** Do not tamper with or disassemble motor

DECK PUMP

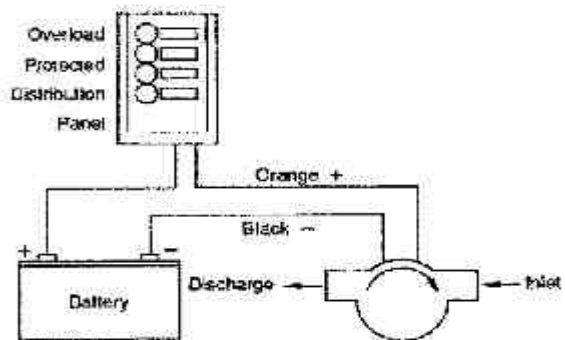
EXPLODED VIEW.
 SPARE PART LIST:
 01) 6000000112/24 motor 12/24 v.
 04) 6000001501 seal
 05) GM000MC001 impeller
 8500000111 service kit (2-4-5-6)
 8500000100 pump group
 (3-4-5-6-7)



IMPELLER PUMPS



WIRING DIAGRAM

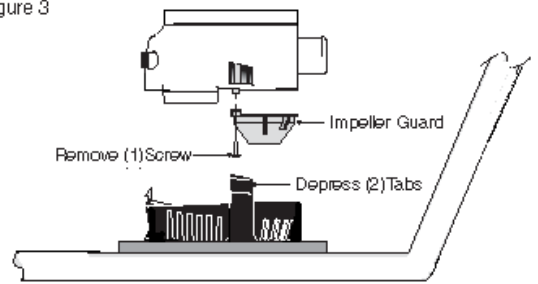


WARRANTY: Matromarine warrants deck pumps to be free of defects in material, and workmanship for a period of two years from the date of purchase. The manufacturer reserves the right to decide whether to repair or replace the unit. The warranty shall be void if motor housing is abused

CARE AND MAINTENANCE

Occasionally check your pump to be certain debris is not jamming the impeller and/or float within the housing. Use the test knob by rotating in a clockwise direction. Careful attention will guarantee outstanding pump performance. To clean the water chamber, remove pump housing from the mounting base by pressing in tabs on sides. Lift the pump housing away. (See Figure 3.) To clean the impeller, remove the impeller guard screw and lift the impeller guard. Remove all debris that has accumulated in pump chamber and around the impeller. Ensure that all debris is removed from strainer slots around the pump base. Inspect the impeller to ensure that it is firmly attached to shaft and is not cracked or broken. Replace impeller guard, screw, and pump housing on base. Be certain that all tabs are fully engaged. Periodically check the electrical connections to ensure they are water-resistant and mounted high and dry. Do not use household cleaners on the pump because many of them

Figure 3



	<p>This pump is designed for use with fresh water and salt water ONLY. Use with any other hazardous, caustic, or corrosive material could result in damage to the pump and the surrounding environment, possible exposure to hazardous substances and injury.</p>
	<p>Keep all wire connections above the highest water level. Wires must be joined with butt connectors and a marine grade sealant to prevent wire corrosion.</p>
	<p>Disconnect power from the system before working on the unit to avoid personal injury, damage to the surrounding environment and/or damage to the unit.</p>
	<p>Always install proper fuse size to prevent damage to product should a short occur. Failure to install proper fuse could increase risk of pump malfunction potentially resulting in personal injury and/or fire hazard.</p>

