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Thank you for purchasing your Hydromatic® pump. To help ensure years of trouble-free operation, please read the following manual carefully.

Before Operation:

Read the following instructions carefully. Reasonable care and safe methods should be practiced. Check local codes and requirements before installation.

Attention:

This manual contains important information for the safe use of this product. Read this manual completely before using this product and refer to it often for continued safe product use. **DO NOT THROW AWAY OR LOSE THIS MANUAL.** Keep it in a safe place so that you may refer to it often.

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Pump Selection and Inspection

1. To select the proper effluent submersible pump size and model for your system, determine the gallons per minute needed and pressure required.
2. Inspect your new pump. After purchase, check the pump and other contents of the shipping container for possible damage. DO NOT lift the Hydromatic Effluent Submersible Pump by its attached electric motor cables.

The entire pump was tested thoroughly at the factory. However, to make sure there is no hidden damage caused during shipment, we suggest checking for free rotation of the shaft prior to installation:

- a) Insert a screwdriver in the slot in the end of the shaft and check to see if the pump shaft turns freely; a slight drag is permissible. See *Figure A*.
- b) Again: Do NOT run unit out of water.

3. Model Number Designation

Selection of proper size cable is very important. Undersized cable results in too low a voltage supply to the motor and ultimate motor failure. Oversized cable will cost much more than proper-sized cable. See chart of proper-sized cable (in chart, the smaller the AWG number, the larger the cable wire size).

For Canadian installations:

- a) type RWU, TWU, SGOW or SWOW power supply cables recommended.
- b) The motor case shall be bonded to the main A-C ground.

NOTE: Ground wire size should be equal to connector size.

3. Length of Cable:

Pump Troubleshooting

The vast majority of service calls on these systems are caused by problems that are electrical in nature.

Never operate the pump for long periods of time with the discharge valve closed. This could cause overheating resulting in damage to the pump and its motor. A properly sized relief valve should be installed before the tank to prevent the pump from operating with the discharge valve closed. Familiarize yourself with potential problems and troubleshooting solutions.

Pump won't run

1. Blown fuse, broken (or loose) electrical connections.
relays and all electrical connections.
2. Motor overload protection contacts open.

Reduced capacity

1. Strainer or impellers partially clogged or plugged.

Limited Warranty

HYDROMATIC warrants to the original consumer purchaser (Purchaser or You) of HYDROMATIC Sump Pumps, Effluent Pumps, Sewage Pumps (other than 2-1/2), and Package Systems, that they will be free from defects in material and workmanship for the Warranty Period of 36 months from date of manufacture.

Our warranty will not apply to any product that, in our sole judgement, has been subject to negligence, misapplication, improper installation, or improper maintenance. Without limiting the foregoing, operating a three phase motor with single phase power through a phase converter will void the warranty. Note also that three phase motors must be protected by three-leg, ambient compensated, extra-quick trip overload relays of the recommended size or the warranty is void.

Your only remedy, and HYDROMATIC s only duty, is that HYDROMATIC repair or replace defective products (at HYDROMATIC s choice). You must pay all labor and shipping charges associated with this warranty and must request warranty service through the installing dealer as soon as a problem is discovered. No request for service will be accepted if received after the Warranty Period has expired. This warranty is not transferable.

EXCEPTIONS: Hydromatic Special Application Pumps, Battery Back-Up Sump Pumps, Filtered Effluent Pumps, Grinder Pumps, and 2-1/2 Sewage Pumps are warranted for a period of 12 months from date of purchase or 18 months from date of manufacture, whichever comes first.

HYDROMATIC SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, OR CONTINGENT DAMAGES WHATSOEVER.

THE FOREGOING LIMITED WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR