This booster pump is 3/4 horsepower with a 1.5 service factor producing a minimum of 50 psi at 12 GPM.

1. UNIT LOCATION
Pump should be installed on a firm and level surface. Unless required by a local code, it need not be bolted down. Installation should be as close as possible to a filtered water return line and convenient location for servicing. NOTE: Booster pump must always be connected to return line on discharge side of filter. Never connect suction side booster pump ahead of filter. (See Figure 1).

2. TYPICAL INSTALLATION - HEATER CONSIDERATION
Suction side of booster pump must be connected to the return line after the heater. Except on solar installation, never connect suction side of booster pump ahead of filter or heater. NOTE: Keep booster pump a minimum of 3 feet from heater.

3. INSTALLATION WITH SOLAR HEATER
With or without a gas heater for back-up, when installing any one of Pentair automatic pool cleaners in a pool with solar heating, the in-line tee must be installed on the return line between the filter and the solar heater. This minimizes the possibilities of an air lock in the sweep pump each time the solar panel is filled and assures an ample supply of water. (See Figure 2B).

4. INSTALLATION WITH SPA POOLS
Connect suction side of the booster pump before spa bypass valve, if your pool is plumbed for a spa pool. (See Figure 3).

5. PUMP INLET CONNECTION TO RETURN LINE
Use elbow and reducing bushing if needed on pre-plumbed installation. Use tee on existing installation. Connect pump suction to the return line after filter and heater as follows: Preferably, underneath side (NEVER ON TOP) of the horizontal return line.

6. INSTALLATION OF PUMP HOSES
a. To install hoses remove adapter from hose kit bag (P/N 353020) and wrap teflon tape around the 3/4 inch npt threads of the adapter. A minimum of four revolutions is required.
   b. Screw adapter with teflon tape into the pump outlet. Torque to 60 inch x lbs.
   c. Cut hose to appropriate length. Six (6) feet of hose has been provided for both the inlet and outlet.
   d. Place adapter cap over hose (See Figure 4) and slide the hose onto the adapter until the hose is flush against the wall where the threads begin. Heating of the hose or use of a lubricant may be useful if the hose is cold.
   e. Screw adapter cap and tighten to the adapter to secure the hose. Torque to 60 in. x lbs.
   f. Repeat process for both inlet and outlet of pump. When routing the hose make sure there are no tight bends or kinks in the hose.

7. SPECIFICATIONS

8. ELECTRICAL CONNECTIONS FOR BOOSTER PUMP
Pentair Universal Booster Pump is pre-wired to operate on 230 volts. The motor can also be wired to operate on 115 volts by making a simple modification at motor wire connection plate.
BEFORE TURNING ON POWER TO PUMP, CHECK VOLTAGE AT INTENDED SOURCE BEFORE MAKING ELECTRICAL CONNECTION. PUMP MOTOR CAN BE DAMAGED IF CONNECTED TO WRONG VOLTAGE.
ELECTRICAL WORK SHOULD BE DONE BY A LICENSED ELECTRICIAN.
CHECK ELECTRICAL CODES FOR REQUIREMENTS IN YOUR LOCAL AREA.

9. SAFETY WARNING
Motor frame should be grounded for swimming pool installations as specified in Article 680 of the National Electrical Code. Failure to properly ground motor can result in serious electrical shock.

10. TIME CLOCK
A separate time clock is recommended. To ensure proper sequence of filter pump and booster pump, the time clocks must be reset if power is interrupted. The automatic pool cleaner must be run for a period of time which must be parallel to and facing away from backside of impeller. Be careful not to get silicone on to spring seals or dislodge seal from backside of seal bracket using hammer and screwdriver.

11. MANUAL SWITCH
A manual switch is recommended. It should be located between the time clock and the booster pump. This switch eliminates turning the pump off at the time clock.

12. PUMP SEAL
The booster pump is fitted with a mechanical shaft seal which is water lubricated and water cooled. If the pump is run without water this seal will be damaged. NEVER OPERATE UNLESS FILTER SYSTEM IS ON.

13. SERVICING THE BOOSTER PUMP
Note: This motor is a drip proof motor, but can be damaged by rainfall, splash or flooding by causing water to enter the motor.
- To disassemble the booster pump -
  1. Turn off booster pump motor and close valves.
  2. Unscrew suction line in middle of volute.
  3. Loosen nuts and remove bolts between booster pump volute and seal bracket.
  4. On back end of motor remove cap. Use a crescent wrench or open end wrench to hold shaft from spinning.
  5. Hold wrench and turn impellar counter clockwise to remove.
- To remove seal -
  1. Stand motor on end, using one screwdriver slowly pry seal out of impellar. Remove seal bracket and dislodge seal from backside of seal bracket using hammer and screwdriver.
- To re-assemble the unit -
  1. After replacing the necessary parts, re-assemble by reversing order of steps 1-5 above.
  2. Ceramic seat must be perfectly clean of any foreign objects or dirt. If seat is not clean, it will cause leakage. The ceramic seat must go in with the side containing grooves facing into the center of the rubber gasket, otherwise it will leak.
  3. Replace impellar and seals if warped or discolored. This condition is caused by overheating due to pump running dry. Smooth surface of ceramic seat should be parallel to and facing away from back side of impellar.
  4. Silicone backside of metal flange on spring seal, push down until flush in center of seal bracket. Be careful not to get silicone on to spring seals contact surface.

If you have any questions, contact Pentair Pool Products at 1-800-831-7133
A solid copper bonding conductor not smaller than No. 8 AWG (8.4 mm²) should be connected from the accessible wire connector on the motor to all metal parts of the swimming pool, spa, or hot tub structure and to all electrical equipment, metal conduit and metal piping within 5 ft. (1.5m) of the inside walls of a swimming pool, spa or hot tub when the motor is installed within 5 feet of the inside walls of the swimming pool, spa or hot tub.

**LIMITED WARRANTY**

This limited warranty is extended to the original consumer purchaser. Pentair Pool Products, Inc. (Pentair Pool Products) warrants the LA01N booster pump it manufactures, including all parts and components thereof, to be free of defects in material and workmanship.

The warranty commences on the date of installation of the pump and shall remain in effect for a period of twelve months, but in no event shall it be in effect for more than twenty-four months before the date of manufacture of the pump as established by the serial number. If this pump is installed with a new Legend, Legend Platinum or Jet Vac Automatic Swimming Pool Cleaner and registered by serial number on the warranty registration card of the Automatic Pool Cleaner, the above warranty will be extended by twelve months. This limited warranty does not apply if the failure is caused or contributed by any of the following: improper handling, improper storage, abuse, unsuitable application of the unit, lack of reasonable and necessary maintenance, winter freezing or repairs made or attempted by other than Pentair Pool Products or one of its authorized service centers. Pentair Pool Products will repair or replace, at its option, a unit or part proved to be defective within the warranty period and under the conditions of the warranty. Pentair Pool Products is not responsible for the cost of removal of the unit, damages due to removal, any other expenses incurred in shipping the unit or parts to or from the factory or its authorized service centers, or the installation of the repaired or replaced unit. The consumer must bear these expenses.

This limited warranty is in lieu of all other warranties, expressed or implied including the implied warranties of merchantability and fitness for a particular purpose, and all such other warranties are disclaimed except to the extent any implied warranty may be imposed by state consumer law is limited in duration to one (1) year from date of purchase. This limited warranty gives you specific legal rights. You may have others which vary from state to state.

In no event shall Pentair Pool Products be liable for incidental or consequential damages of any nature or kind or for damages to persons or property.

**IMPORTANT SAFETY INSTRUCTIONS.**

READ AND FOLLOW ALL INSTRUCTIONS CAREFULLY.

SAVE THESE INSTRUCTIONS.