

TURBO[®]

Model T40535

SEWAGE PUMP

Professional Series

2 YEAR WARRANTY



1/2HP
5400 GPH
Head of 20' (6m)

Suction and discharge:
 2" NPT
 Electric cable:
 19' piggyback type

- Oil cooled
- Cast iron construction
- Stainless steel mechanical rotary seal
- Noryl impeller, clog-free type
- Heavy duty motor
- Adjustable automatic vertical switch

115V 60Hz
 9A, (18A at start)

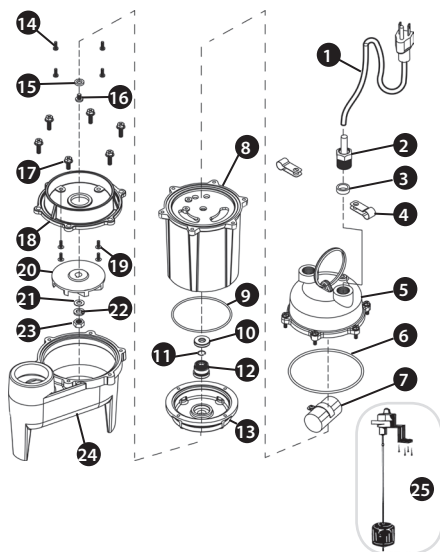
US GPH LPH

5'	5400	20500
10'	4000	15150
15'	2100	7900
20'	250	1000

Friction loss not included

REPAIR PARTS

REF.	PART	DESCRIPTION
1-2-3	410083	Electric cable
4	410081	Cable tie
5	410062	Top cover
6	410069	O-ring top cover
7	410082	Capacitor
8	410084	Complete motor
9	410070	O-ring motor housing
10	410067	Oil seal
11	410080	Snap ring
12	410068	Mechanical seal
13	410064	Seal plate
14	410073	Screws (4)
15	410071	O-ring pump casing
16	410076	Screw
17	410075	Screw (6)
18	410066	Pump casing cover
19	410074	Screw (4)
20	410063	Impeller
21	410077	Washer
22	410078	Washer
23	410079	Bolt
24	410065	Pump casing
25	450447AG	Float



TURBO

TO THE PROFESSIONAL OR INSTALLER:
Instructions must remain with installation.

GENERAL SEWAGE PUMP INSTALLATION

Please read these instructions carefully. Note before you proceed with the installation of this product that the manufacturer's guideline has to be respected. Failure to comply to instructions and designed operation of this product, may void the warranty.

Your product has been carefully packaged at the factory to prevent damage during shipping. However, occasional damage may occur due to rough handling. Carefully inspect your product for damages that could cause failures. Report any damage to your carrier or your point of purchase.

INITIAL START UP PROCEDURES:

- 1- Inspect the pump and the sewage tank for any obvious condition that may necessitates cleaning, correction, adjustment or repair.
- 2- Assure that the pump is secure and vertical for proper operation.
- 3- Assure that there is adequate clearance from any combustible materials or structure. Stored materials must be kept away from the pump. Shelves or cabinet structures must not be in close proximity over the pump.
- 4- Assure that the motor is securely plugged into a proper 'GFCI' electrical outlet.
- 5- Test the 'GFCI' outlet by pressing its test switch. This should prove that the outlet is energized and will trip off to protect against a ground fault. Be sure to reset the 'GFCI' by pressing its reset switch. (Repeat this step monthly)
- 6- Lift the float to assure that the pump will start when required. (Step 7 below will test submersible pumps with enclosed floats).
- 7- Pour pails of water in the sewage tank to turn the pump on. Assure that any check valve present will permit the sewage to flow.

- 8- Observe that the plumbing can pump the sewage safely out of the residence. (Repeat this step monthly)

SAFETY INSTRUCTIONS:

Before installation and operation, follow these procedures:

- A- Check with your local electrical and plumbing codes to ensure you comply with the regulations. These codes have been designed with your safety in mind. Be sure you comply with them.
- B- A separate circuit must be lead from the home electrical distribution panel properly protected with a fuse or a circuit breaker. We also required that a ground fault circuit be used as well as a 'GFCI' receptacle. Consult a licensed electrician for all wiring.
- C- The ground terminal on the three prong plugs should never be removed. They are supplied and designed for your protection.
- D- Never make adjustments to any electrical appliance or product with the power connected. Do not only unscrew the fuse or trip the breaker, remove the power plug from the receptacle.

IMPORTANT

ELECTRICAL CONNECTION:

For pumping systems using more than one pump, each pump needs to be connected to a separate dedicated circuit protected by a fuse or breaker. This way, the power supply of one pump will not stop operating if the fuse of one of the pumps burns or if the breaker of one of the pumps trips.

IMPORTANT NOTICE:

The following are minimum requirements in order to protect your residence from flooding. It is a small investment but it is your personal responsibility to protect your home, family and valuables. Failure to comply with the following requirements will also void your warranty:

- Two (2) pumps have to be installed in the sewage pit. The first pump as a primary pump and the second pump as the backup unit.
 - An Alarm system model T50454 has to be installed to advise you of any malfunctions.
- Pump selection, proper and adequate installation are a must to comply with local by-laws and need to be adhered to.

INSTALLATION STEPS:

STEP 1

We recommend that you install your pump and basin in a clean location where there is adequate room for servicing at a later date. Protection from freezing temperatures and good ventilation should be considered as well, to provide the pump an environment for long life. Friction losses in the discharge pipe must be taken into consideration when many elbows and fittings are installed in the discharge line. Each elbows and fittings must be considered as 1 feet of head. **Never run the pump dry.** Damage to the seal may occur. **The run of the pipes from the check valve(s) to the existing waste or drain line must never be sloping downward except when connecting to same.** For a new installation, install your sewage basin in the excavation you have provided in the basement floor of your home. Connect the necessary piping from your shower trap, toilet, etc., to the inlet of your sewage basin, with the proper pipe and fittings (see diagram).

STEP 2

Cut a length of 40" to 42" of 2" ABS/DWV pipe. Cement the 2" ABS/DWV male adaptor to 2" slip to one end of this pipe.

STEP 3

With your drill, make a 1/2" hole in the adaptor previously glued. This hole will prevent any air locking which might occur. Note: Check that this might have been done in factory when discharge pipe is supplied.

STEP 4

Lower pump(s) with piping attached into the sewage basin. Make sure that the pump is as

close as possible to the centre of the basin. Adjusting the pump(s) in centre of basin and keep float switch(es) from rubbing on side of basin.

STEP 5

When you are pumping raw sewage, you must have a gas tight cover on the basin and a vent pipe from basin, connecting to home's vent system (see diagram). Feed the 2" riser pipe from pump's discharge, through the 2" opening in the cover. Secure a 3" vent pipe to the vent opening and bring the switch(es) and pump motor power cables through the opening in the cover provided.

STEP 6

Cut a piece of 2" ABS/DV pipe to the desired length to start the discharge line. Run the discharge line as short as possible to the home's waste sewer line.

STEP 7

Connect the 3 prong plug of the switch in a receptacle. Insert the motor 3 prong plug into female receptacle on exposed piggy-back of switch plug. Repeat this operation for the second pump.

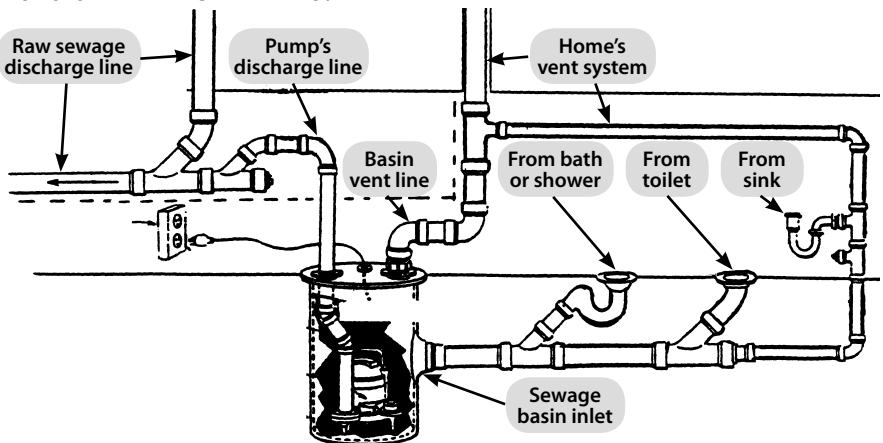
STEP 8

Fill the sewage basin with water to test the operation of the sewage pump(s) and switch(es) operation. Allow the pump to go several "on-off" cycles to assure satisfactory operation.

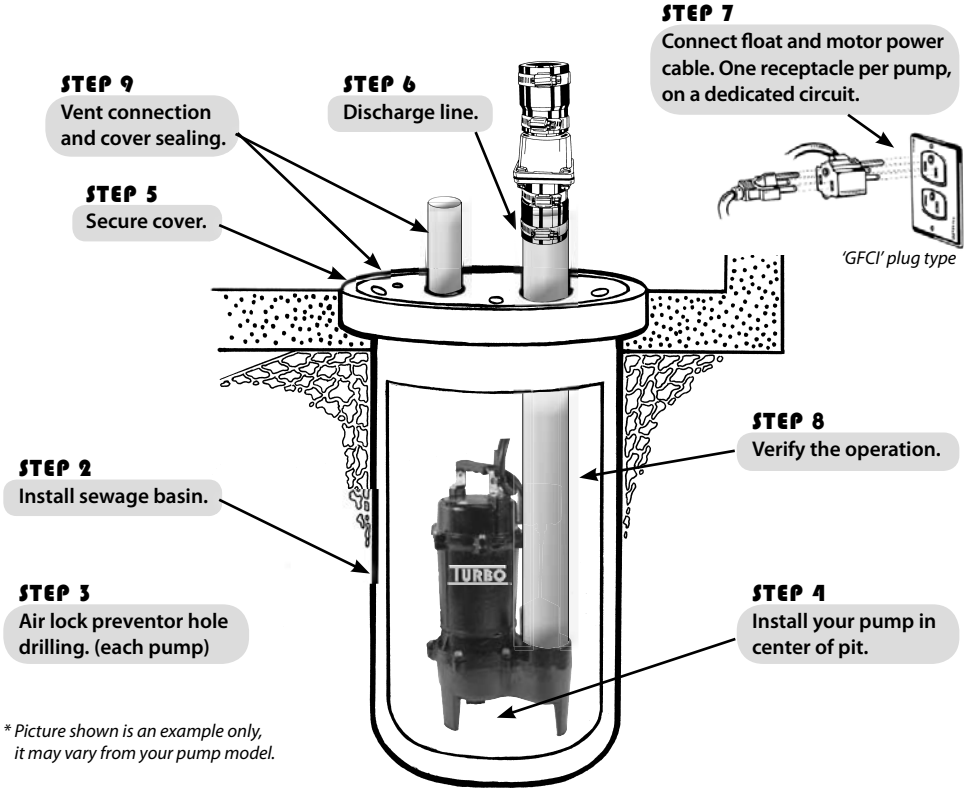
STEP 9

Secure the gas tight cover and the plug for electrical cords with the gaskets and screws provided with the cover. Make vent connection to home's vent system.

SEWAGE SYSTEM TYPICAL PIPING:



SEWAGE PUMP APPLICATION:



NOTICE:

This unit has been designed to pump water only. This unit is not designed for applications involving salt water, brine or any other liquids including petroleum products. Use with salt, brine or any other liquids including petroleum products will void the warranty.

NOTES:

TROUBLE SHOOTING GUIDE CHECK LIST

	PROBABLE CAUSE	ACTION
Motor does not run	Switch is off position Blown fuse Tripped breaker Disconnected plug Corroded plug Float stuck Defective switch Defective motor	Turn switch to on position Replace Reset Re-install Clean Check movement Replace Replace
Motor runs but no water is delivered	Improper voltage Pump may be airlocked Pump discharge head too high Clogged inlet/impeller	Check voltage Check drilled hole in discharge pipe Wrong pump selection (over15') Clean
Pump does not deliver to full capacity	Improper voltage Pump may be airlocked Pump discharge head too high Clogged inlet/impeller	Check voltage Check drilled hole in discharge pipe Wrong pump selection (over15') Clean
Pump does not shut off	Defective switch Missing check valve Clogged check valve in open position Float obstruction	Replace Install valve Clean debris Check for movement

TO THE END CONSUMER:

If you have any problem with the product, before advising the store, where you've purchased the pump, please contact us at 514 337-4415, and ask for our customer service desk. They will be pleased to help you with any questions you might have, concerning your installation.

NOTES:
