

2190 Boul. Dagenais West LAVAL (QUEBEC)

CANADA

H7L 5X9

TEL: 514.337.4415

FAX: 514.337.4029

info@burcam.com

INSTALLATION **INSTRUCTIONS**

MODELS

400405T 400406T 400409T

SEWAGE PUMP

Please read these instructions carefully. Failure to comply to instructions and designed operation of this system, may void the warranty.





Your pump has be<mark>en</mark> carefully packaged the factory to prevent damage during shipping. However, occasional damage may occur due rough handling. to **Carefully inspect your** pump for damages that cause failures. could Report any damage to your carrier or your point of purchase.

SAFETY INSTRUCTIONS:

This fine pump that you have just purchased is designed from the latest in material and workmanship.

Before installation and operation, we recommend the following 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

WE RECOMMEND THAT A SEPARATE CIRCUIT BE LEAD FROM THE HOME ELECTRICAL DISTRIBUTION PANEL PROPERLY PROTECTED WITH A FUSE OR A CIRCUIT BREAKER. WE ALSO RECOMMEND THAT A GROUND FAULT CIRCUIT BE USED. 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.

Material required for sewage pump application

☐ Desired length of ABS/DWV 2" pipe, to link up from pump disexisting pipe.	scharge to waste or drain
☐ Required quantities of 2" ABS/DWV elbow(s) and/or other fitt discharge line.	ing(s) to run the
 □ 1 only 2" ABS/DWV male adaptor to 2" slip, to connect the d □ Desired length of ABS/DWV 3" pipe and required quantities and/or other fitting(s) to run the vent line. 	
 ☐ 1 only 2" union check valve # 450457. ☐ 1 only 18" X 30" minimum size sewage basin like # 400420. ☐ Teflon tape and ABS cement. 	NOTICE This unit is not designed for application involving salt water or brine. Use with salt water or brine will voi warranty.

Tools

Screwdrivers, hacksaw to cut pipe, knife to assist in pipe cutting, round file to smooth pipe ends, pipe wrench, adjustable wrench, 1/4" drill bit and drill.

Ensure that you have a gas tight cover for your sewage basin and 3" ABS/DWV vent piping.

APP	LICATIONS			FEATURE <mark>S</mark>
☐ This domestic submersible sewage pump is			e pump is	Vortex designed impeller made from cast iron.
designed and suitable for raw sewage applications where the total head requirements		age .	☐ Rugged ca <mark>st iron pump body.</mark>	
do	not exceed 25, ction losses.	35 or 40 feet, in	cluding pipe	☐ Stainless ste <mark>el motor body.</mark>
	APACITY:		N LOSS IN INCLUDED	☐ Stainless steel mechanical rotary type motor
	400 405T	400 400 T	400 400 T	seal.
5'	400405T 4200 US GPH	400406T 5700 US GPH	400409T 10200 US GPH	🗖 2" NPT pump di <mark>scharge.</mark>
10' 15'	3300 US GPH 2400 US GPH	4800 US GPH 3900 US GPH	9000 US GPH 7800 US GPH	☐ Thermal and overl <mark>oad protection.</mark>
20' 25'	1500 US GPH 600 US GPH	3000 US GPH 2100 US GPH	6600 US GPH 5400 US GPH	☐ 3/4HP, 115VAC, 60Hz, 9A, oil filled base.
30'	000 00 0111	1100 US GPH	4200 US GPH	☐ 1HP, 230VAC, 60Hz, 8A, oil filled base.
35' 40'		400 US GPH	3000 US GPH 1800 US GPH	☐ 2HP, 230VAC, 60Hz, 15A, oil filled base.

INSTALLATION STEPS

see typical installation diagram in page 4

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.

Assuming that you have a sump pit located in your basement floor... Your sump pit should be constructed from concrete, brick, tile or more recently a sump basin made from plastic and/or fiberglass. The minimum size of your sump pit must be 18" in diameter and no less than 25" deep. When pit is ready, proceed to next step.

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 PIPE FROM THE CHECK VALVE TO THE EXISTING WASTE OR DRAIN LINE MUST NEVER BE SLOOPING DOWNWARD EXCEPT WHEN CONNECTING TO SAME.

STEP 2

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).

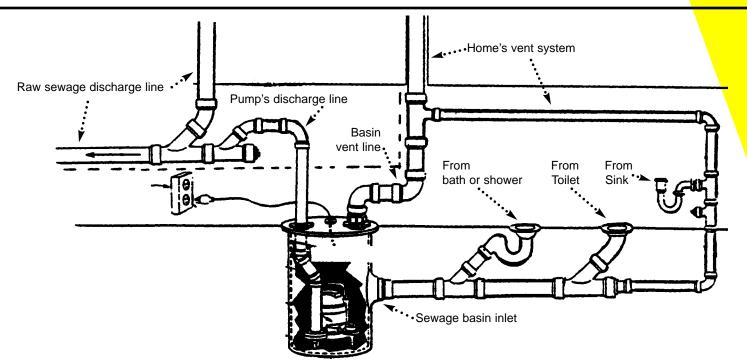
Cut a length of 40" to 42" of 2" ABS/DWV pipe. Cement the 2" ABS/DWV male adaptor to 2" slip to one end of this pipe.

With your drill, make a 1/4" hole in the adaptor previously glued. This hole will prevent any air locking wich might occur.

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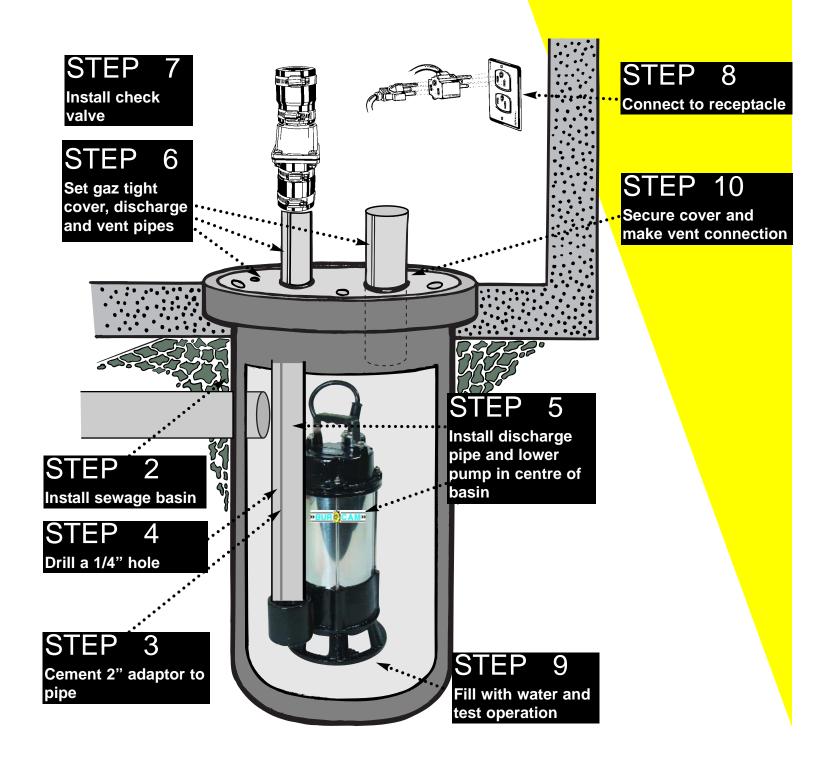
- STEP 5 Screw the pipe with the male adaptor into the 2" discharge opening in the pump. Lower pump with piping attached into the sewage basin. Make sure that the pump is as close as possible to the centre of the basin. Adjusting the pump in centre of basin will keep mechanical float switch from rubbing on side of basin.
- 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 cover and bring the switch and pump motor power cables through the opening in the cover provided.
- Install a 2" check valve (model 450457) union type to the 2" discharge riser pipe coming out of the cover, to a lenght of 2" ABS/DWV pipe, and run the discharge line as short as possible to the home's waste sewer line. Secured the check valve with the provided clamps. Be sure that the arrow on valve are pointing away from pump.
- 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. The mechanical switch provided for automatic operation is preset to pump. No adjustments are necessary.
- Fill the sewage basin with water to test the operation of the submersible sewage pump and switch operation. Pump should start pumping when the water level reaches 12" to 15" above the bottom of the basin and above the pump. Allow the pump to go several "on-off" cycles to assure satisfactory operation.
- STEP 10 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



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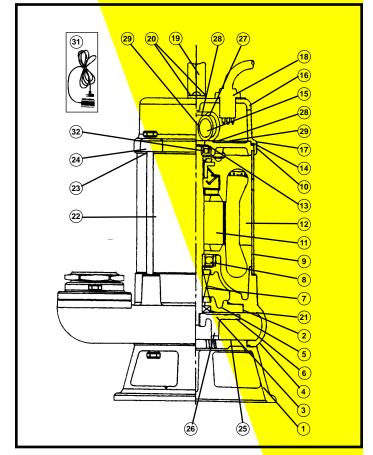
SEWAGE PUMP APPLICATION



REPAIR PARTS

MODEL 400405T

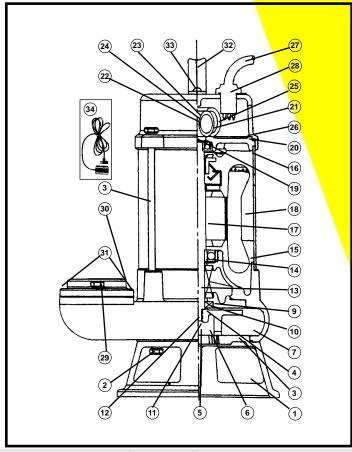
#	ITEM	DESCRIPTION
1	450331	Strainer
2 3 4	450332	Oil cover "O" ring
3	400447	Impeller
4	450333	Pump casing
5	400450	Oil cover
6	400449	Oil seal
7	400448	Mechanical seal
8	506032	Lower bearing
9	450335	Motor casing
10	450336	Motor housing "O" rings (2)
11 12	400453 400454	Rotor shaft Stator
13	506031	Upper bearing
14	450338	Inside cover
15	400451	Capacitor
16		Head cover
17	450341	Inside cover "O" ring
18	400446	Power cable
19	300487	Handle
20	310312	Handle bolts (2)
21	450702	Screws (4)
22	450020	Long bolts (4)
23	450021	Head cover nuts (4)
24	450022	Head cover snap rings (4)
25	450023	Impeller nut
26	450026	Plate capacitor screws (2)
27	450704	Capacitor clamp
28	310310	Capacitor screw clamp
29		Capacitor plate
30	450024	Impeller snap ring
31	450453	Mechanical switch
32	450706	Centrifugal switch



MODEL 400406T

#	ITEM	DESCRIPTION
1	450345	Strainer
2	450712	Strainer bolts (4)
3	450346	Strainer packaging
4	400457	Impeller
5	450709	Impeller nut
6	450710	Impeller snap ring
7	450347	Pump casing
8 9	450708	Long bolts (4)
10	400461	Oil cover
11	400459	Oil seal
12	450702 450332	Screws (4) Oil cover "O" ring
13		Mechanical seal
14		Lower bearing
15		Motor casing
16		Motor casing "O" ring
17		Rotor shaft
18		Stator
19	506032	Upper bearing
20		Inside cover
21	400462	Capacitor
22	450707	Capacitor plate
	310309	Capacitor clamp
24	310310	Capacitor plate screws (3)
25	450353	Head cover
26	450354	Head cover packaging
27	400456	Power cable
28	450711	Power cable screws (2)
29	450713	Discharge clamp
30	450714	Discharge gasket
31	450715	Discharge bolts (2)
32		Handle
33	310312	Handle bolts (2)
34	450478	Mechanical switch 230V

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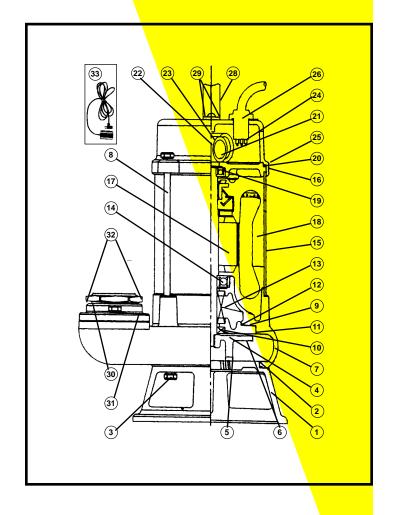


A50478 Mechanical switch 230V
Repair parts may be ordered from your authorized point of sale or from

REPAIR PARTS

MODEL 400409T

#	ITEM	DESCRIPTION
1	450360	Strainer
2	450361	Strainer packaging
	450717	Strainer bolts (4)
4	400438	Impeller
5	450709	Impeller nut
6	450710	Impeller snap ring
7	450362	Pump casing
8	450716	Long bolts (4)
9	400441	Oil cover
10	400440	Oil seal
11	450332	Oil cover "O" ring
12		Screws (4)
13		Mechanical seal
14		Lower bearing
15		Motor casing
_	450350	Motor casing "O" ring
17	450366	Rotor shaft
18	400444	Stator
19	506032	Upper bearing Inside cover
20 21	450369 400462	
22	310309	Capacitor Capacitor clamp
23	310309	Capacitor clamp screw
24	450353	Head cover
25	450354	Head cover gasket
26	400456	Power cable
27	450711	Power cable screws (2)
28	300487	Handle
29	310312	Handle bolts (2)
30	450718	Discharge clamp
31	450719	Discharge gasket
32	450715	Discharge bolts (2)
33	450478	Mechanical switch 230V



Repair parts may be ordered from your authorized point of sale or from BUR-CAM PUMPS

TROUBLE SHOOTING GUIDE CHECKLIST

NEVER MAKE ADJUSTMENTS TO ANY ELECTRICAL APPLIANCE OR PRODUCT WITH THE POWER CONNECTED. DON'T JUST UNSCREW THE FUSE OR TRIP THE BREAKER, REMOVE THE POWER FROM THE RECEPTACLE.

TROUBLE 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

Motor runs but no water is delivered.

Improper voltage

Pump may be airlocked

Pump discharge head too high

Clogged inlet/impeller

Pump does not deliver to full capacity.

Improper voltage

Pump may be airlocked

Pump discharge head too high

Clogged inlet/impeller

Pump does not shut off.

Defective switch

Missing check valve

Clogged check valve in open position

Float obstruction

Turn switch to on position

Replace

Reset

Re-install

Clean

Check movement

Replace

Replace

Check voltage

Check drilled hole in discha<mark>rge pipe</mark>

Wrong pump selection (over 25')

Clean

Check voltage

Check drilled hole in discharge pip<mark>e</mark>

Wrong pump selection (over 25')

Clean

Replace

Install valve

Clean debris

Check for movement

TO THE END CONSUMER

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