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**CANADA** 

H7L 5X9

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

INSTALLATION **INSTRUCTIONS MODELS** 300508PH 300600PH 300700PH

SUMP PUMPS

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

»BUR (O) CAM»



## **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:

- 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.
- WE RECOMMEND THAT A SEPARATE CIRCUIT BE LEAD FROM THE HOME ELECTRI-CAL 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.
- THE GROUND TERMINAL ON THE THREE PRONG PLUGS SHOULD NEVER BE REMOVED. THEY ARE SUPPLIED AND DESIGNED FOR YOUR PROTECTION.
- 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.
- 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.

# Material required for submersible sump pump application

Submersible sump pump installation

☐ Desired length of 1 1/2" or 1 1/4" of ABS/DWV pipe to link	up the pump to the drain line.
1 only 1 1/4" check valve (350353) (Note that this 1 1/4" ch	neck valve may also be use with
a 1 1/2" pipe).	
Sump pit or 1 only sump basin.	
☐ 1 1/4"-1 1/2" stainless steel clamps (750886).	NOTICE

#### NOTICE

This unit is not designed for applications involving salt water or brine.

Use with salt water or brine will void

Use with salt water or brine warranty.

**Tools** 

☐ ABS cement.

Screwdrivers, hacksaw to cut pipe, knife to assist in pipe cutting, round file to smooth pipe ends, pipe wrench, adjustable wrench to tighten fittings.

<b>APPLICATIO</b>	N			FEATURES	
<ul> <li>This submersible sump pump is designed for a permanent sump installation.</li> <li>For dewatering around homes and farms. It can be used in light commercial</li> </ul>			<ul><li>□ Non corrosive material.</li><li>□ Stainless steel mechanical rotary seal.</li></ul>		
application.			Stairliess steet mechanical lotary seal.		
			FRICTION LOSS IN PE NOT INCLUDED	☐ Thermal and overload protection.	
☐ CAPACITY: 300508PH 300600PH 300700PH		1 300700PH	☐ Piggy back grounded cables		
5'	2500	3000	3200		
10'	2100	2500	2850	☐ 115VAC, 60Hz.	
15'	1550	2000	2300	3005 <mark>08PH 3A, 7.5A (when start)</mark>	
18'	550	1450		300600PH 4A, 9.5A (when start)	
20'			1600	300700PH 5A, 12 A (when start)	
22'			1000 USGPH		
	1/4HP	1/3HP	1/2HP		

## **INSTALLATION STEPS**

#### STEP 1

We recommend that you install your pump 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. Do not use to pump gas or toxic fuels. This submersible sump pump is designed to pump water only.

Friction losses in the discharge pipe must be taken into consideration when the horizontal offset is greater than 50 feet. The discharge pipe should be increased from 1 1/2" to 2". This will reduce friction losses and allow the pump to give maximum performance.

More friction losses must also 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.

The float switch of your pump has been pre-set at the factory and does not need any adjustment.

**Never run the pump dry**. Damage to the seal may occur. Fill pump pit or sump basin with water before turning on the power.

#### STEP 2

Assuming that you have a sump pit located in your basement floor... Your sump pit must 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 should be 18" in diameter and no less than 25" deep. When pit is ready, proceed to next step.

## SUMP PUMP APPLICATION

SEE DIAGRAM ON PAGE 5

### STEP 3

At this step, you have the opportunity to install a 1 1/2" or a 1 1/4" discharge. We recommend a 1 1/2" ABS/DWV discharge. Install a check valve (350362 in-line 1 1/2" or 350353 1 1/4" MNPT inlet and 1 1/4" or 1 1/2" outlet) over discharge pipe of your pump and secure it with stainless steel clamps or glued nipple for ABS/DWV pipe. This check valve will allow easy access to pump, should service be required.

### STEP 4

Install and position your submersible sump pump in the centre of your sump pit or basin and ensure that there is clearance to allow the mechanical float switch a free working area without obstructions (pipe, pit's wall, power cord). The float cord length is factory set and should not need adjustment. If adjustment is required, the switch cord can be shorted or lengthed.

#### STEP 5

Install your discharge pipe from check valve to the point of discharge or drain. For installation over 50 feet of horizontal position discharge pipe, use a 2" pipe to reduce friction loss.

#### STEP 6

The mechanical switch provided with your pump is supplied with a serial electrical male plug. Fix the power cord of the pump into the piggy-back receptacle of the switch and plug this one into electrical grounded outlet. We recommend that a licensed electrician be employed to do wiring. Permanently ground the motor in accordance to the electrical codes for your area. Do not use an extension cord to connect your pump to the power source. From your distribution panel to the receptacle, we recommend a wire gauge not smaller than 14 gauge. Use tape or tie wrap to fix power cords to discharge pipe.

### STEP 7

Fill the sump pit or basin with water to test the operation of your submersible sump pump. The motor should start when the water level reaches approximetely 3" over your pump. Allow the pump to go through several "on-off" cycle to assure satisfactory operation. If needed, see trouble shooting guide in this manual.

### STEP 8

Review your installation with typical diagram. Check all connections for leaks.

# **MAINTENANCE**

Unplug the switch and pump motor power cord. Remove the pump from pit or basin. Remove trash accumulation and dirt from the pump and float switch. Be sure the float switch operates freely after cleaning. If tar or paint has been received in the pit or basin, use kerosene to remove residue from float switch or pump. **Do not use strong paint solvents**.

Remove the screws that hold the strainer or the base to the bottom of the pump body. Pry the base off the pump body carefully. Clean the impeller and volute passage way from any debris wich may have become in contact with these parts. Again, If tar or paint has entered pump, clean with kerosene. **Do not use strong paint solvents**. Be sure impeller turns freely after cleaning.

Check and clean away any debris wich may be clogging the suction inlet, pump discharge, check valve and discharge line.

Replace screws and return sump pump to sump pit or basin and reconnect to piping.

# SUMP PUMP APPLICATION

### STEP 3

Prepare your choice of discharge pipe size and check valve

### STEP 2

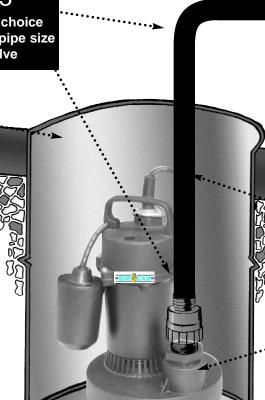
Sump pit 18" diameter X 25" depth

STEP 7

Fill the basin and test the operation

STEP 8

Review and check connections for leaks



STEP 6

Connect float and motor power cable

STEP 5

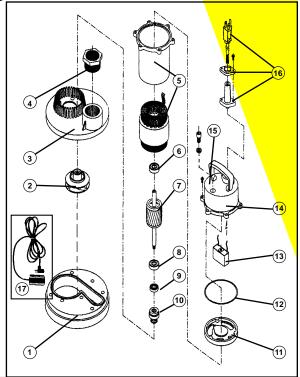
Install discharge pipe

STEP 4

Install your pump in centre of pit

# REPAIR PARTS

REF.	PART	DESCRIPTION	REF. PART		DESCRIPTION
1	310430	Pump volute	8	350340	Lower bearing
2	310431	Impeller (300600PH)	9	310435	Oil seal
2	310432	Impeller (300700PH)	10	310450	Shaft washer
2	310433	Impeller (300508PH)	11	310448	Bearing housing
3	310434	Pump base	12	310443	Pump gasket
4	350277	Discharge reducer	13	310444	Capacitor (300600PH)
5	310439	Stator (300600PH)	13	310445	Capacitor (300700PH)
5	310440	Stator (300700PH)	13	310446	Capacitor (300508PH)
5	310441	Stator (300508PH)	14	310449	Upper casing
6	350340	Upper bearing	15	350114	Screws (2)
7	310436	Rotor (300600PH)	16	350329	Power cable
7	310437	Rotor (300700PH)	17	450453	Mechanical switch
7	310438	Rotor (300508PH)			



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

Plug disconnected

Corroded plug

Low water level

Thermal overcharge

Defective switch/float

Defective motor

Improper float position

Turn switch to on position

Replace

Reset

Re-install

Clean prongs

Add water and verify

Cool the motor

Replace

Replace/repair

Check movement

Pump does not deliver to full capacity.

Jammed impeller

Plugged check valve

Blocked suction/inlet

Discharge leak

Blocked line/pipe

Worn impeller

Defective motor

Clean

Clean/replace

Check for debris in pit and clean

Repair

Check for debris or ice

Repair/replace

Replace

Pump does not shut off.

Defective switch Float obstruction

Blocked suction/inlet

Replace

Adjust/check

Check for debris in pit and clean

#### 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.