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

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

PRIOR TO INSTALLATION:

- **A-** Screw the suction pipe to the pump.
- **B-** Carefully rotate the valve and float assembly to position the float beside the suction pipe as per the photo on right. Never use the float and rod to rotate the valve. Use a wrench on the flat part of the valve.

<u>«MAD (RUB «</u>

MODEL 300400 THE CONTRACTOR SUMP BUDDY





SAFETY INSTRUCTIONS:

(Applicable to your electrical primary pump)

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. <u>Consult a licensed electrician for all wiring.</u>
- C 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 must be constructed from concrete, brick, tile or more recently a sump basin made of 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.

MONTHLY MANDATORY CHECK-UP:

- Inspect the pump and the sump for any obvious condition that necessitates cleaning, correction, adjustment or repair.
- 2. Clear the sump and the surroundings of any paper, leaves or other debris that might clog the input openings. Remove anything that might float into the sump.
- **3.** Ensure that the pump is secure and vertical for proper operation.
- 4. Ensure 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.
- 5. Unplug the primary pump.
- **6.** Lift the float to prove that the valve will start when required, then push the float down.
- 7. Pour water in the sump until the float turns the valve on to prove that the pump will permit effluent to flow.
- **8**. Observe that the plumbing can carry the effluent safely out of the residence.
- 9. Plug the primary pump.

Material required for emergency back-up sump pump installation:

Municipal water source with a minimum of 20 PSI during the pump operation and a maximum of 70 PSI when the pump is not working.

A pressure reducer/regulator is required if you exceed the maximum of 70 PSI when the pump is not working.

Desired length of copper pipe and required fittings to link up municipal water source to the sump buddy automatic valve.

Teflon tape.

Desired length of polyethylene pipe and "Y" fitting, to link up the CONTRACTOR SUMP BUDDY discharge to the existing discharge of electrical sump pump.

NOTICE

This unit is not designed for applications involving salt water or brine. Use with salt water or brine will void warranty.

Tools: Screwdrivers, hacksaw to cut pipe, knife to assist in pipe cutting, round file to smooth pipe ends, pipe wrench, adjustable wrench to tighten fittings, propane torch and welding material.

APPLICATION:

This emergency back-up sump pump is designed to be connected to any existing conventional type of sump pump system, as an extra sump pump protection.

CAPACITY AT 60 PSI:

(Municipal water pressure)

	<u>US GPH</u>	<u>LPH</u>
5'	1200	4500
10'	950	3600
15'	600	2275
Friction loss in pipe not included		

FEATURES:

- Extra protection during power outage or in the event of failure of conventional sump pump.
- Easy to connect to existing conventional sump pump discharge line.
- Brass valve and pump housing.
- □ No electricity required.
- No battery required.

WARNING

TO OPERATE PROPERLY

The pressure of your municipal water supply must be between 20 PSI during the pump operation and a maximum of 70 PSI when the pump is not working. Install a pressure gauge on the pipe of your municipal water supply to read the available pressure. If you evaluate that the pressure will be lower than 20 PSI during the pump operation, do not install this pump. If the pressure is higher than 70 PSI when the pump is not working, install a pressure regulator between the ball valve and the automatic valve and set it at 70 PSI.

INSTALLATION STEPS:

(See diagram on page 5)

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 may also void your warranty:

- Two (2) pumps have to be installed in the sump pit. The first pump as a primary pump and the second pump as the backup unit.
- Burcam alarm system model 450454 has to be installed to advise you of any malfunctions.

A proper pump selection and adequate installation are a must to comply with local by-laws and need to be adhered to.

STEP1 We recommend that you install your CONTRACTOR SUMP BUDDY 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 product 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 line should be made of ABS or PVC 1 1/2" or 2" pipe. 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 elbow and fitting must be considered as 1 foot of head. Use teflon tape on all connections. Keep suction screen clean. Check regularly your CONTRACTOR SUMP BUDDY to ensure its proper operation. Remember that solids or debris in water should be removed from the sump pit.

STEP 2 Remove electrical power of your existing conventional primary sump pump and verify that this primary sump pump is equipped with a check valve at the pump discharge. If not, add a check valve before continuing your installation. The sump pump check valve should be located at the primary pump discharge and installed below the "Y" fitting.



- **STEP 3** Locate your CONTRACTOR SUMP BUDDY in an ideal position and cut the existing discharge line to install the "Y" fitting. The distance between the top of the basin (floor) and the bottom of the valve have to be between 2" to 3".
- **STEP 4** Cut the desired length of pipe to connect the discharge line from the CONTRACTOR SUMP BUDDY to the or "Y" fitting. Run this discharge line with fittings to adjust your CONTRACTOR SUMP BUDDY in vertical position.
- **STEP 5** This emergency back-up system is equipped with a built-in check-valve (A). Some local rules may required a second check valve to be located on the water supply line. Check with your local plumbing codes.
- **STEP 6** Close municipal water supply. Run a supply line (not less than 3/4" recommended) to the ideal position for an easy operation of the automatic control valve of the CONTRACTOR SUMP BUDDY. Install a ball valve (B) near the pump area,

to close water supply for servicing at a later date. Install a vertical pipe with a cap on the end to prevent water hammering (C).

- STEP 7 Flush this new line, before next step, to remove any debris which may obstruct the water flow in your CONTRACTOR SUMP BUDDY.
- STEP 8 Screw the automatic control valve to the supply line using an union to allow servicing at a later date (D).
- STEP 9 Using the rubber rings (E), adjust the float to turn the valve on at the proper level. The float should be set to activate the valve at least 2" higher than the conventional electrical pump setting, so that the back-up pump will not start prior to the main electrical pump.



- **STEP 10** You are now ready to test your CONTRACTOR SUMP BUDDY. Try the automatic control valve by lifting up the float. Water will go through the CONTRACTOR SUMP BUDDY. Push down the float to shut off water flow.
- **STEP 11** Fill the sump pit with water. Verify the action of the automatic control valve and the level of water to start your CONTRACTOR SUMP BUDDY, then repeat the operation many times.
- **STEP 12** Turn on electrical power of the conventionnal sump pump and verify the entire system.

TYPICAL INSTALLATION DIAGRAM FOR THE CONTRACTOR SUMP BUDDY:



REPAIR PARTS

REF. PARTS DESCRIPTION

- 1 310141 Ejector
- 2 310140.1 Valve and float
- 3 310147.1 Suction pipe
- 4 750753P 1 1/4" foot valve



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	
No water is drawn out.	Municipal water supply closed. Automatic valve closed. Float do not rise with water level. Suction or ejector clogged. Water level below suction in sump.	Turn on ball valve. Check manually the valve operation. Check for obstruction of float action. Clean. Adjust the float rod to shut off pump prior to low water level.	
	Improper function or missing check valve in primary pump discharge. Discharge line clogged. Pumping height more than 15 ft. Municipal water pressure under 20 PSI.	Install a check valve below the "Y" fitting on your primary pump discharge base. Check all pipes. Reduce top lift to less than 15 ft. head. Run a 3/4" direct line from municipal water supply to reduce friction loss in pipe.	
Pump does not pump water to full capacity.	Municipal water supply partially opened. Automatic valve partially opened. Suction or ejector partially clogged. Leaky primary pump check valve. Discharge line partially clogged.	Turn on ball valve. Check manually the valve operation. Clean. Replace. Check all pipes.	
Pump does not shut off.	Automatic valve does not shut off. Float is obstructed.	Check manually the valve operation. Check for obstruction or adjust rubber grommet to proper off and on position.	
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.