PumpGuard™

Pump High Water Alarm & Primary Switch Override System

Notice! For use with pumps with piggyback switches only!

Piggyback Switch Plug

PUMP CORD →   ← PIGGYBACK SWITCH CORD

• Can be used with any 115-volt sump or sewage pump with a two-cord piggyback switch arrangement.

PumpGuard includes Pump-Guard control box, vertical alarm/override switch & piggyback jumper plug

Patent Pending   c(UL)us LISTED

⚠ WARNING

This product has a NEMA-1 rated enclosure and can only be used in an indoor environment!

Advantages

• Two-cord piggyback pump switch arrangement.

• Added Protection, if your primary pump switch fails, the high water alarm switch will override your primary pump switch, sound the alarm and keep your pump in operation until repairs can be made.

• Remote Alarm Contacts, can be tied into your home security system or an automatic dialer to alert you to trouble when you are away from home.

• Quick and easy set up, just mount the unit on the wall, plug in your pump & switch cords, jumper plug, and alarm/override float, plug it in and you are set to go!

• PumpGuard can be plugged directly into the optional Sumpro Battery Backup System ensuring system operation during power outages.

Applications

The PumpGuard is an easy to use high water alarm/ secondary pump switch override system designed specifically for use with fully automatic sump or sewage pumps with a two-cord piggyback switch system. The PumpGuard gives you the comfort of knowing that if your primary pump switch fails, the PumpGuard is their to alert you and to continue to operate your pump if your primary switch fails. Helps eliminate the possibility of unnecessary flood damage.

Specifications

Voltage:	Model #200 120 VAC, 15 amps max. running load, 1 hp or less.
Enclosure:	NEMA-1 94V0 polycarbonate plastic enclosure with all necessary electrical receptacles pre-mounted and wired for easy installation.
Alarm Switch:	Vertical float switch. Impact resistant non-corrosive PVC plastic for use in liquids up to 140°F (60°C) 10 ft. 16 gauge, 2 conductor SJOW-A (UL), SJOW (CSA) water resistant cord. NOTE: This alarm switch must be used only with the PumpGuard duplex pump alternator and alarm system.
Alarm Horn:	80 db. at 10 ft.
Indicator Lights:	Power on, Pump Running, and Alarm

PumpGuard™
Pump High Water Alarm & Primary Switch
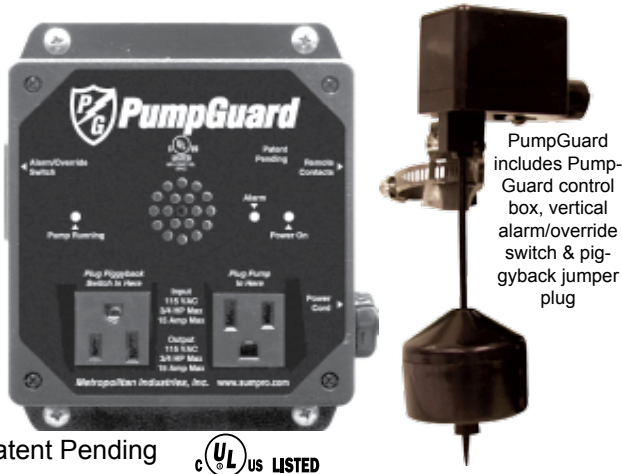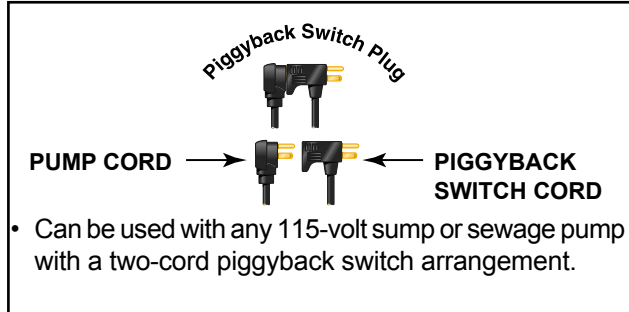Override System
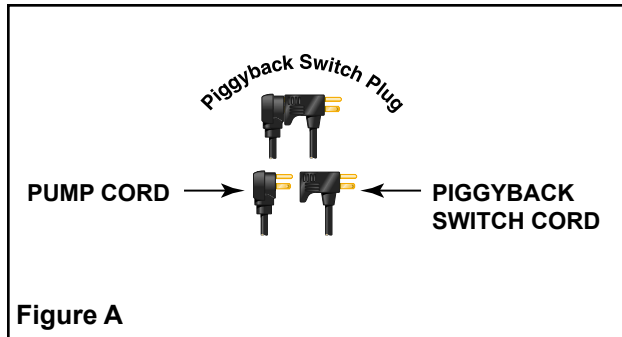
INSTALLATION INSTRUCTIONS
Dated: 4/12/07
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Notice! This device must be used with pumps that have a two-cord piggyback switch arrangement. See Figure A.

Figure A

If your pump does not have the two-cord piggyback switch system shown above, you must replace the pump with one that does.
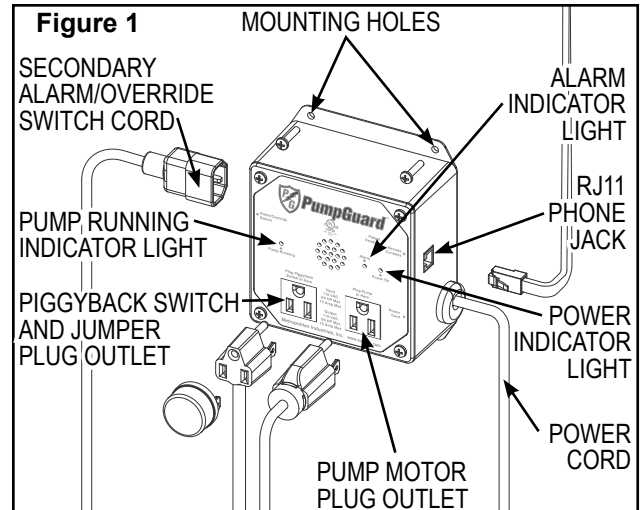
Installation

⚠ WARNING

TURN OFF POWER SOURCE BEFORE INSTALL-ING OR ADJUSTING THIS DEVICE. FAILURE TO TURN OFF POWER COULD RESULT IN SERIOUS OR   FATAL ELECTRIC SHOCK!

NOTE: Tank must be vented in accordance with local plumbing codes. Do Not install PumpGuard™ in locations classified as hazardous in accordance the National Electrical Code, ANSI/NFPA 70-1993.
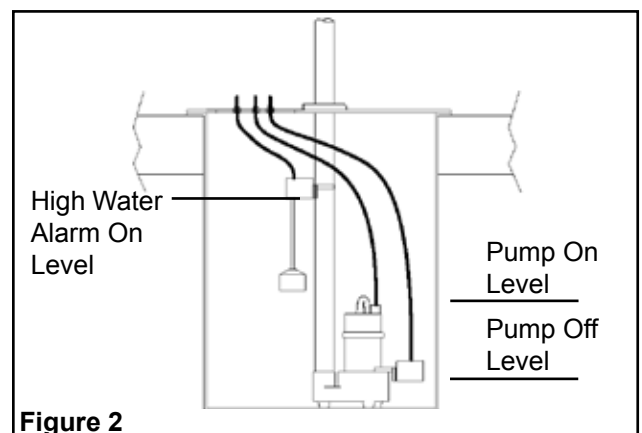
⚠ CAUTION

Read these instructions carefully.

• Check local codes before installing. We recommend this product be installed in accordance with the national and local electrical codes.

• Make sure a properly grounded three prong outlet is used.

• Do not connect this product while standing on a wet or damp surface.

• Retain these instructions when installation is complete.

Figure 1

Mounting PumpGuard™ Panel

1. Determine an indoor location that is suitable for the placement of this product near the pump pit.

2. Securely mount the PumpGuard™ panel to the wall using the four mounting holes on the enclosure (see Figure 1).

3. Make sure your sump pump is properly installed.

4. Mount the alarm/override float on the pump dis-charge pipe and adjust it so that it will only activate at a level higher than the turn on level of the pump (see Figure 2).

Figure 2

PumpGuard™

Pump High Water Alarm & Primary Switch
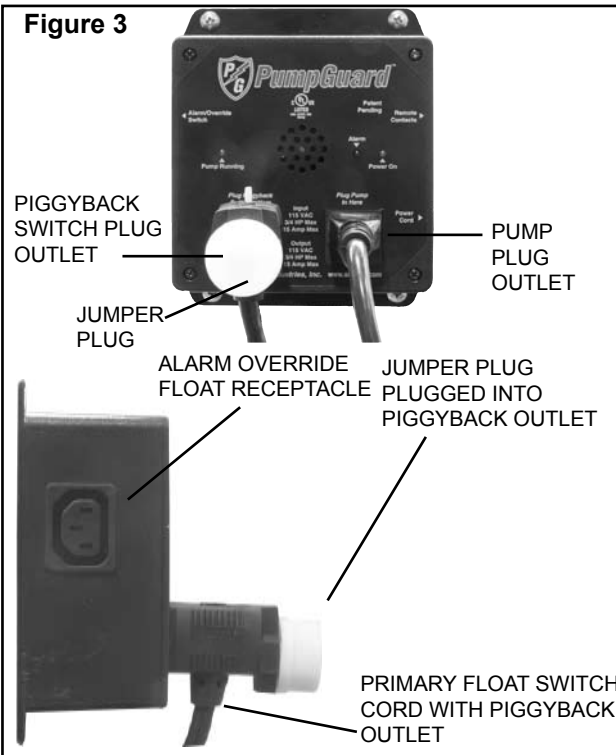Override System

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Figure 3

PIGGYBACK
SWITCH PLUG
OUTLET

PUMP
PLUG
OUTLET

JUMPER
PLUG

ALARM OVERRIDE
FLOAT RECEPTACLE

JUMPER PLUG
PLUGGED INTO
PIGGYBACK OUTLET

PRIMARY FLOAT SWITCH
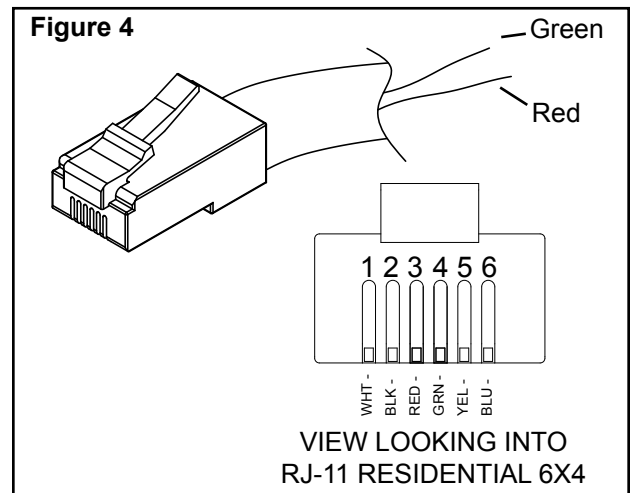CORD WITH PIGGYBACK
OUTLET

5. After all of the previous steps have been completed it is time to plug the pump cord, switch cord and alarm float into the PumpGuard™. First, separate the pump cord from the piggyback switch cord. The pump cord (plug with no piggyback receptacle) is to be plugged into the "Pump Plug Outlet" on the right hand side of the front cover (see Figure 3). The switch cord (plug with the piggyback receptacle) is plugged into the "Piggyback Switch Plug Outlet" on the left hand side of the front cover (see Figure 3). Once the cords are plugged into the proper receptacles, the jumper plug must be plugged into the back of the piggyback switch plug (Located on the left side) to complete the circuit (see Figure 3). The alarm float must be plugged into the receptacle on the left-hand side of the enclosure.

6. Now that all of the wiring has been properly connected, plug the PumpGuard™ into the designated receptacle.
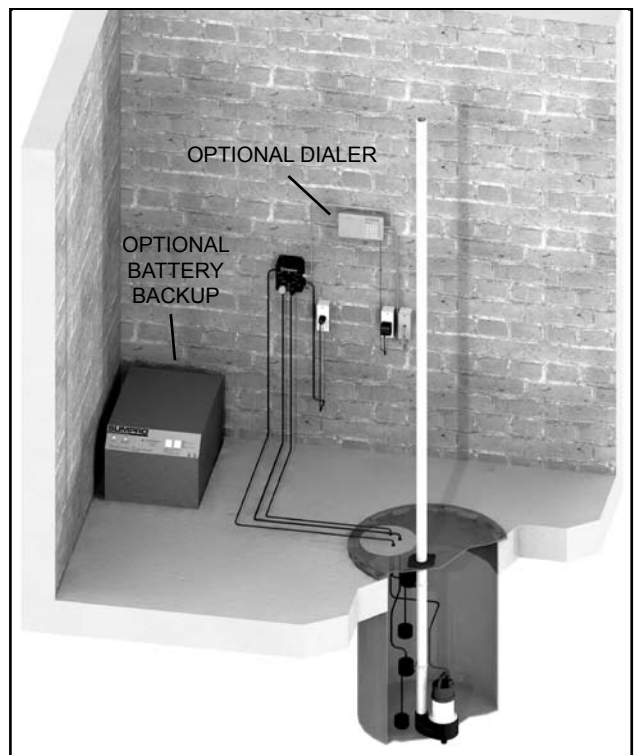
7. Fill the pump tank with water and allow the system to cycle several times to ensure proper operation. By lifting the alarm float you should activate the alarm and run the pump. Note, the PumpGuard™ alarm/override switch, when activated, will sound the audible alarm and activate the pump wether the primary switch has failed or not.

8. The PumpGuard™ also has a set of remote contacts that can be tied into a home alarm system or external dialer for added protection. The receptacle is a standard RJ 11 phone jack residential 6x4 quad. The active wires are pins 3 and 4, which are the red and green wires in the cable. The red and green wires can be tied directly into a home alarm system, an automatic dialer or any other type of remote sensing device. (See Figure 4)

Figure 4

Green

Red

1 2 3 4 5 6

WHT -
BLK -
RED -
GRN -
YEL -
BLU -

VIEW LOOKING INTO
RJ-11 RESIDENTIAL 6X4

Typical Installation

OPTIONAL DIALER

OPTIONAL
BATTERY
BACKUP

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LIMITED WARRANTY

PumpGuard is warranted to be free from defects in material and workmanship and to perform within applicable specifications for a period of one (I) year. Obligation under this warranty is limited to repairing or replacing any part thereof, which shall within one year be returned to us with transportation charges prepaid, and prove to be defective.

The above limited warranty takes the place of all other warranties, express or implied and correction of such defects by replacement or repair shall constitute a fulfillment of all obligations under the terms of the warranty, which specifically EXCLUDES any incidental damages caused by or associated with this product or it use. The warranty does not cover any unit which has been damaged either in transit or by misuse, accident or negligence. No warranty or representation not contained herein shall be binding.

LABOR, ETC. COSTS: Metropolitan shall IN NO EVENT be responsible or liable for the cost of field labor or other charges incurred by any customer in removing and/or affixing any Metropolitan product, part or component thereof.