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# OMNISTAR™

BECAUSE  
EVERY PERSON  
COUNTS

## USER MANUAL

ISSUE 001-07



PATENT PENDING





## WELCOME

Thank you for choosing Wildfire's Omnistar™. The new Wildfire Omnistar™ is an accessory which can be used in conjunction with the Remstar™ unit for tandem setups or as a stand alone module. Activated by water, the Omnistar™ allows one operator to control a multitude of down-stream pumps by either running or stopping the first pump in the tandem setup.

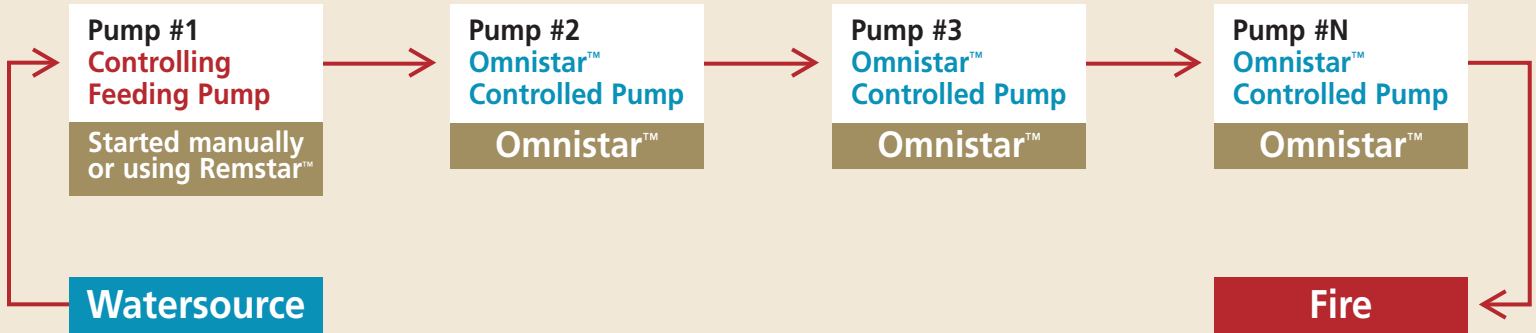
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## HOW DOES THE OMNISTAR™ WORK



By running or stopping the controlling pump, the operator can easily control all downstream pumps, thus reducing the number of pump operators and increasing efficiency.

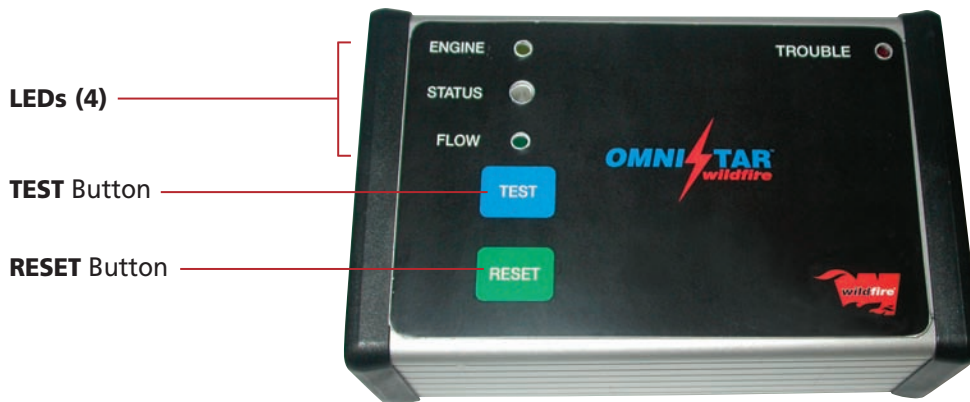
## INCLUDED IN THE OMNISTAR™ KIT

- Omnistar™ unit
- Watertight impact resistant case
- Connection cable
- User manual

## WATERPROOF OMNISTAR CASE



## OMNISTAR™ MODULE



### LEDS

#### ENGINE

Indicates engine is running.

#### STATUS

- Blue = Standby
- Yellow = Engine cranking
- Red Flashing = Tried 3 times and failed. Press the **RESET** button.
- Green = Pump started and running successfully.

#### FLOW

Indicates presence of water pressure and flow.

#### TROUBLE

Indicates Reverse Polarity. **Disconnect immediately.**

### BUTTONS

**TEST** TEST Diagnostic

**RESET** RESET Resets the Omnistar™

## GETTING STARTED

Carefully read the *Installation Manual* for installation procedures.

Connect the cable to the receptacle on the pump and to the receptacle on the watertight case.



The Omnistar™ will power up.

Set up the pump, fuel, discharge hose, feeding hose, adaptors and other accessories. Adjust the throttle to desired position.

The Omnistar™ system is activated by a flow switch located on the checkvalve. When water goes through

the checkvalve, it lifts the lever and activates the flow switch. That flow switch sends a signal to the Omnistar™ to start the pump. When water stops going through the checkvalve, the lever goes down and deactivates the flow switch. The Omnistar™ will then stop the pump.

*Make sure the combined pressure of the pumps will not exceed your equipment's maximum operating pressure. A pressure exceeding the equipment's maximum operating pressure can damage your equipment and cause serious injuries.*

*Note: Make sure the feeding pump's flow rate is always higher than the flow rate of the downstream pump. If the flow rate is too low, the hose will collapse.*

When ready, start the controlling pump. The controlling pump will feed water to the Omnistar™ controlled pumps, which will start automatically.

*It is recommended to go through a trial run to make sure that the Omnistar™ is working properly with the pump setup. Calibrate your setup to ensure the combined pressure is safe and adequate and to make sure that the feeding pump's flow rate is always higher than the flow rate of the following pump.*

## ADVANCED FEATURES

The system is programmed with an *Automatic 3 Starts* feature. If the Omnistar™ fails to start the pump on the first try, it will attempt to start it again for a **total of 3 times**. If the pump accidentally shuts off during operation, the Omnistar™ will automatically attempt to restart the pump for a **total of 3 starts**.

The system is equipped with an *Automatic Choke* feature. The choke will be activated every time the engine starts for a minimum of 4 seconds or until the pump starts.

## SAFETY FEATURES

The Omnistar™ system is equipped with various safety features. The system monitors three parameters:

- *Water Pressure*
- *Water Flow*
- *Engine Vibrations*

When the pump is running, all three conditions have to be met. If one condition fails, the system will automatically shut down. This feature ensures that the pump will not run dry and will prevent damage to the pump end.

The Omnistar™ is also equipped with a *Reverse Polarity safety feature*. If the battery is installed improperly, the Omnistar™ will not be damaged. The red LED will light up to indicate **TROUBLE**.

## STROBE LIGHT OPTION

The Strobe Light Option includes:

- 360° Strobe Light with poly base
- Strobe Light wire harness



See *Installation Manual* for Strobe Light installation procedures.

The Strobe Light can be used to locate the pump. It will flash to indicate that the pump is running.

## SYSTEM RESET PROCEDURE

The unit is equipped with a reset function that allows the user to reset the Omnistar™.

If the Omnistar™ has unsuccessfully attempted to start the pump three times (i.e. fuel tank empty), pressing the **RESET** button will bring the counter down to zero.



To shut off the pumps, turn off the controlling pump. The Omnistar™ controlled pump(s) will turn off automatically.



# TROUBLESHOOTING

This section provides a list of commonly encountered problems and provides possible causes and solutions.

Problem	Possible Cause	Possible Solution
<b>Omnistar™ is not powering up.</b>	Pump battery level too low.	Charge/replace battery.
	Connection cable not connected properly.	Make sure connection cable is connected properly.
<b>Engine is not cranking.</b>	Pump battery level too low.	Charge/replace battery.
	Engine starter not connected properly.	Make sure engine starter is connected properly.
	Faulty flow switch.	Replace flow switch.
<b>Engine cranks but does not start.</b>	Faulty pressure switch.	Replace pressure switch.
	Faulty flow switch.	Replace flow switch.
	Faulty engine vibration sensor.	Replace engine vibration sensor.
	Contact pins are loose or damaged on pump or case receptacle.	Contact Wildfire Customer Service.
	Engine is not getting any fuel.	Make sure there is fuel in the tank and the fuel line is primed.
<b>Choke solenoid not working properly.</b>	Choke solenoid wires not connected properly.	Make sure choke solenoid wires connected properly.
	Choke solenoid not installed properly on bracket.	Make sure solenoid can move freely.
	Return spring damaged.	Replace return spring.
<b>Cannot start pump using pump start switch (located on pump)</b>	Omnistar™ is connected to pump.	Disconnect Omnistar™ to use pump start switch.

## DIAGNOSTIC MODE

The **TEST** button serves as a self-diagnostic tool. It can help identify the origin of the problem. Pressing and holding down the **TEST** button will simulate the activation of the flow switch. The Omnistar™ will go through its normal cycle. Releasing the button will reset the unit. The diagnostic mode should be used with the assistance of a qualified Wildfire technical representative.

## DIMENSIONS AND SPECIFICATIONS

<b>Size (external)</b>	
Length	9.23" (235 mm)
Width	7.46" (190 mm)
Height	4.12" (105 mm)
<b>Weight</b>	2.7 lbs (1,2 kg)
<b>Operating voltage</b>	12VDC
<b>Consumption (sleep mode)</b>	20 mAh
<b>Omnistar connection cable length</b>	3 feet / 914 mm

## CARE AND MAINTENANCE

The suggestions below will help you to fulfill any warranty obligations and allow you to enjoy this product for many years:

- Keep the watertight case lid closed. Precipitation, humidity, and liquids can damage the electronic circuits.
- Screw on sealing cap on base receptacle when not in use. It will keep the contacts clean and prevent oxidization.
- Disconnect the connection cable when not in use.
- Keep connection cable clean.
- Do not store unit in very hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store unit in very cold areas.

- Do not attempt to open unit. Non-expert handling of the device could damage it and will void the warranty.
- Do not drop, knock or shake unit. Rough handling can cause damage to internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean unit or connection cable. Wipe it with a soft cloth.
- If the unit is not working properly, contact your nearest qualified service facility. The personnel there will assist you, and if necessary, arrange for service.
- Do not knock the pressure and the flow switch.
- Do not knock the engine vibration sensor.
- Do not knock the choke solenoid.

## WARRANTY

### **A. Warranty on items distributed by Wildfire**

Wildfire makes no warranty with respect to any item distributed by it, such items being subject onto warranties, if any, made by their respective manufacturers and to the extent available to the Buyer according to the respective terms thereof. Wildfire hereby assigns any such warranty to the Buyer, if assignable. However, Wildfire disclaims all other warranties or conditions for items whether express, oral, implied or otherwise, as to any matter whatsoever, including but not limited to, implied warranties or conditions of merchantable quality or fitness for a particular purpose and those arising by statute or otherwise in law or form a course of dealing usage of trade.

### **B. Warranty on items manufactured by Wildfire**

Wildfire offers a limited warranty as described fully below. Among other things, it also specifically disclaims liability for:

- Failure of the product if it is used for other than its intended purpose.
- Changes or modifications not expressly approved by Wildfire.
- Unreasonable use, supplemental damage, or damage to the product not resulting from defects in material or workman-ship.
- Any personal injury, damages of any kind resulting from misuse, improper installation, negligence, repair or alteration of the product.



