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## INSTALLATION AND INSTRUCTION MANUAL

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# SS670-013

## SIREN

### Installation and Operating Instructions



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PLITSTR332 REV. D 6/21/21

## **Installation Information**

MODEL: SS670-013                      Serial #: \_\_\_\_\_  
PURCHASE DATE: \_\_\_\_\_  
INSTALLATION DATE: \_\_\_\_\_  
INSTALLER: \_\_\_\_\_  
DEALER: \_\_\_\_\_

Model and serial number located on bottom of unit

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## **General Description**

The SS670 Siren Amplifier is a premium 100W unit designed for single 100W speaker use. The primary operating modes are Phaser, Yelp, Wail, Hands Free, Manual, Alert, and Radio. A Noise Canceling PA Override and push-button Horn Override are available in all modes. A manual push-button is provided for push-on/push-off tone toggle operation in the Phaser, Yelp, and Wail modes. It also allows manual siren control in the Manual or Alert modes. Any siren tone can be re-programmed to a more desired tone. Another feature allows cycling through Wail, Yelp, Phaser, and Standby by providing a signal to the horn ring auxiliary wire when the function switch is in the Hands Free (HF) position. Radio and PA volume controls are provided on the front panel. The front panel is backlighted with LED's for night visibility. This compact unit utilizes short circuit, high voltage, low voltage, and reverse polarity protection systems for maximum service life.

## **Installation Notes**

Proper installation of the unit is essential for years of safe, reliable operation. Please read all instruction **before** installing the unit. Failure to follow these instructions can cause serious damage to the unit or vehicle and may void warranties.

**Qualifications** - The installer must have a firm knowledge of basic electricity, vehicle electrical systems and emergency equipment.

**Keep These Instructions** - Keep these instructions in the vehicle or other safe place for future reference. Advise the vehicle operator of the location.

**Unpacking** - Inspect contents for shipping damage. If found, alert carrier immediately. Contents should include unit with microphone, mounting bracket w/ hardware, microphone bracket with 2 screws, wiring connector, and these instructions. Contact your supplier immediately if any components are missing.

## **Mounting Tips**

- Mount in a location with adequate ventilation to prevent overheating.
- Devices should be mounted only in locations listed in SAE standard J1849.
- Controls should be placed within convenient reach of the driver.
- Assure clearances before drilling in vehicle.
- Sound levels produced by attached speakers can cause permanent hearing loss.
- Never operate this unit without adequate hearing protection for you and others in the area. (OSHA 1910.95)
- Consider wire routing and access to connections.
- Install mounting bracket to vehicle using 1/4" hardware (not supplied).



Care should be taken when positioning this unit and cord so that the unit and/or cord does not interfere with the proper operation of the driver-side or passenger-side airbag! Failure to heed this warning may result in serious or fatal injury!!!

## Electrical Connections

### Wire Size and Termination

Electrical connections to this unit are made through the green 12-terminal connector located in the rear of the unit (See below - Part # CPSS-153).

Examine the charts below to determine the proper gauge of the wire to use. Please review the following recommendations when making your electrical connections:

- Use only high quality crimp connectors. Make sure all connections are tight.
- Minimize the number of splices to reduce voltage drop.
- Route wiring to prevent wear, overheating, and interference with air bag deployment.
- Use grommets and sealant when passing through compartment walls.
- Ground connections should be made directly to the negative of the vehicle battery. Where not possible, only connect to substantial chassis components.
- Install and check all wiring before connection to vehicle battery.
- **CAUTION: All wires should be rated for at least 125% of their maximum current load. All wires connected to the positive terminal of the battery should be fused at the battery for their rated load.**
- Review the charts below that indicate the recommended wire gauge, based upon the length of the wire run and the current that will pass through the wire.

### WIRING GUIDE

| Terminal | Description        | Typical Color | Typical Current |
|----------|--------------------|---------------|-----------------|
| 1        | Power (+12VDC)     | Red           | 10A             |
| 2        | Not Used           |               |                 |
| 3        | Ground             | Black         | 10A             |
| 4        | Ground             | Black         | 10A             |
| 5        | Speaker 1          | Brown         | 4A              |
| 6        | Speaker 2          | Brown         | 4A              |
| 7        | AUX In             | Green         | 3A              |
| 8        | Logic Power        | Orange        | 0.06A           |
| 9        | Radio Repeat       | Blue          | 0.1A            |
| 10       | Radio Repeat       | Blue          | 0.1A            |
| 11       | Backlighting Power | Yellow        | 0.1A            |
| 12       | Not Used           |               |                 |

### CPSS-153

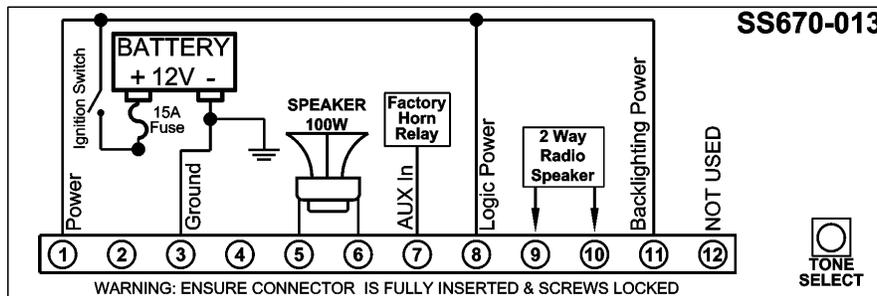


(Shown when viewing the siren upside down)

### RECOMMENDED WIRE GAUGE

| Current   | 10'    | 20'    | 25'    |
|-----------|--------|--------|--------|
| < 2.0A    | 22 AWG | 18 AWG | 18 AWG |
| 2.0-4.0A  | 18 AWG | 16 AWG | 16 AWG |
| 4.1-5.5A  | 18 AWG | 16 AWG | 14 AWG |
| 5.6-8.0A  | 16 AWG | 14 AWG | 14 AWG |
| 8.1-12.0A | 16 AWG | 12 AWG | 12 AWG |

Please note that the diagram below is when viewing the siren upside down.



**(Electrical Connections CONT'D)**

For ease of installation, you can remove the green connector from the siren while connecting your wires. Please note that when referencing terminal numbers using the wiring diagram on the previous page, the screw heads face **UP**, as pictured to the right.



Connections to the terminal block are summarized both in the chart and in the wiring diagram on the previous page. For more detailed information, review the section below.

**Mandatory Electrical Connections**

**Note:** *As with any electronic device, fuse all connections to power at the battery. Use a 15A fuse (user-supplied).*

**Ground:** (Terminals 3 & 4) - Connect to the negative terminal of the battery.

**⚠ (You MUST connect both of these terminals!!)**

**Power:** (Terminals 1 & 2) - Using a minimum size #14 AWG wire, connect to a 10-16VDC ignition switched power source capable of supplying at least 15A.

**⚠ (You MUST connect both of these terminals!!)**

**Logic Power:** (Terminal 8) - Connect to a 10-16VDC ignition switched power source.

**⚠ (You MUST connect this terminal or the unit will not function!!)**

**Speaker:** (Terminals 5 & 6) - Connect to your siren speaker.

**⚠ (You MUST connect both of these terminals!!)**

**Optional Electrical Connections**

**AUX IN:** (Terminal 7) - This terminal is typically connected to the steering wheel horn relay. It allows for several functions, including siren operation in HF mode (see page 6), Air Horn activation, or Manual "step up" function (see page 5).

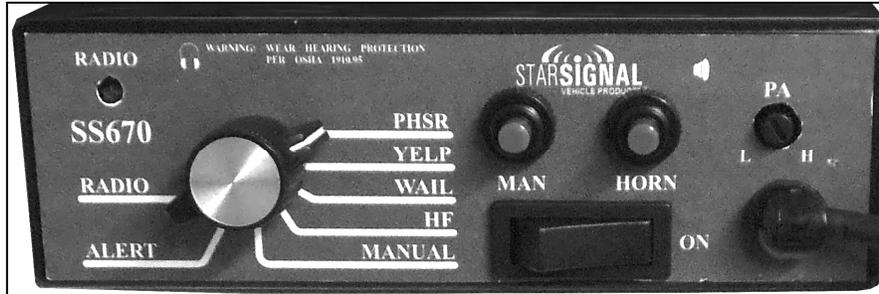
If you will be using any of these features, connect terminal 7 to the output of your steering wheel relay.

**⚠ (Only compatible with positive-side switched horn relays)**

**Radio Repeat:** (Terminals 9 & 10) - If you would like the ability to re-broadcast your two-way radio over your siren speaker, connect these two terminals to the two-way radio speaker or output connector of the two-way radio.

**Backlighting:** (Terminal 11) - Connect to the dash lights, ignition switched power, or other switched 10-16VDC power source. This controls the backlighting for the face of the siren.

## Optional Tone Programming



The SS670 will produce 7 different tones/sounds by activating its various functions:

| <u>Function</u>           | <u>Default Tone</u> |
|---------------------------|---------------------|
| Phaser Step Up (PHSR+MAN) | Two-Tone            |
| PHSR                      | Phaser              |
| YELP                      | Yelp                |
| WAIL                      | Wail                |
| MAN                       | Ramp Up             |
| HORN                      | Air Horn            |
| AUX                       | Air Horn            |

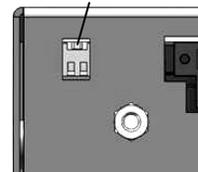
Each of these functions can be reprogrammed for a different tone, if desired. To change the sounds for any of the functions, proceed below.

1. **Power the unit** up.
2. Activate the function you wish to change.
  - For PHSR, WAIL, and YELP functions, rotate the selector knob into the corresponding position.
  - For the MAN, HORN, or AUX functions, rotate the selector knob into the MANUAL or ALERT position, then press **and hold** the **MAN** button, **HORN** button, or **steering wheel horn**, respectively.
  - For the *Phaser Step Up* function, rotate the knob into the **PHSR** position, then press and release the **MAN** button.

The tone currently programmed for that function will sound.

3. The **Tone Program** button can be found on the rear of the siren. Using a paper clip, press and release it to cycle through the list of optional tones. *Review the chart on the following page for a list of optional tones.*
4. De-activate the function to save the new tone.

**Tone Program Button**



(Installer Selectable Options CONT'D)

### Optional Tones

| Tones For WAIL, YELP, and PHSR, and Phaser Step-Up Function |                                 | Tones For MAN Button and AUX Wire |                                 | Tones for Horn Button |                             |
|---|---------------------------------|-----------------------------------|---------------------------------|-----------------------|-----------------------------|
| 1   | WAIL (Wail default) §, *, †     | 1                                 | STANDARD AIR HORN (AUX default) | 1                     | STANDARD AIR HORN (default) |
| 2   | YELP (Yelp default) §, *        | 2                                 | LOW FREQUENCY AIR HORN          | 2                     | LOW FREQUENCY AIR HORN      |
| 3   | PHASER (PHSR default)           | 3                                 | RAPID AIR HORN                  | 3                     | RAPID AIR HORN              |
| 4   | TWO-TONE (PHSR Step Up default) | 4                                 | AIR HORN II                     | 4                     | AIR HORN II                 |
| 5   | MECHANICAL WAIL (FIRE ENGINE) † | 5                                 | DOUBLE POST POP AIR HORN        | 5                     | DOUBLE POST POP AIR HORN    |
| 6   | MAX YELP §, *                   | 6                                 | SINGLE AIR HORN                 | 6                     | SINGLE AIR HORN             |
| 7   | HOOT                            | 7                                 | SINGLE QUICK AIR HORN           | 7                     | SINGLE QUICK AIR HORN       |
| 8   | RAPID HOOT                      | 8                                 | TWO TONE AIR HORN               | 8                     | TWO TONE AIR HORN           |
| 9   | AIR HORN & YELP                 | 9                                 | MANUAL (MAN default) *          |                       |                             |
| 10  | GHOST                           | 10                                | MECHANICAL MANUAL (FIRE ENGINE) |                       |                             |
| 11  | RAPID GHOST                     |                                   |                                 |                       |                             |
| 12  | SINGLE AIR HORN                 |                                   |                                 |                       |                             |
| 13  | SINGLE QUICK                    |                                   |                                 |                       |                             |
| 14  | DOUBLE POST POP AIR HORN        |                                   |                                 |                       |                             |
| 15  | TWO TONE AIR HORN               |                                   |                                 |                       |                             |
| 16  | STANDARD AIR HORN               |                                   |                                 |                       |                             |
| 17  | CONTINUOUS TONE                 |                                   |                                 |                       |                             |
| 18  | CONTINUOUS BEEP                 |                                   |                                 |                       |                             |

§ = SAE approved  
 \* = California Title 13 approved  
 † = See below

**▶▶▶▶ System Reset ◀◀◀◀**

If you would like to reset ALL of the siren programming options to their defaults, activate any tone and press the **Program button** for six (9) seconds. The LED will flash once, then twice, then three times, and all siren tones will stop.

#### Wind Down or Hard Stop Option

By default, the Wail tones indicated by the “†” above will “wind down” when they are de-activated. If you prefer to have them immediately stop (i.e. hard stop), hold the Program Button for 3 seconds (until the LED flashes once). This will change it to a hard stop. Repeat to change back to the wind down option.

#### Tone Disable Option

Some municipalities may ban the use of specific tones, such as the **Phaser** tone. The *Phaser Disable* jumper option (found in our previous versions of the SS700) has been replaced with the *Optional Tone Programming* feature described on the previous page. This will allow you to reprogram the **PHSR** default tone from **Phaser** to any of the other tones listed. This new feature expands the former option (that was previously limited only to disabling the Phaser tone) to the ability to replacing ANY of the tones that may not be permitted (or desired).

#### Auxiliary-Manual Function Option

By default, when the siren is in **PHSR**, **YELP**, or **WAIL** modes, and the AUX function is activated (typically by the steering wheel horn relay), the siren will produce the standard Air Horn Tone (#1 in the chart above) and temporarily override the siren tone. If you would rather have the AUX function (i.e. steering wheel horn) mimic the MAN button (see *MAN button functions on page 7*), then you should program the AUX function for tone #9 (Manual) or #10 (Mechanical Manual).

## Operation



### General

This unit is designed for easy operation under the stress associated with high-speed pursuit. Most siren functions are accessible with one simple motion without repetitive activation of switches or automatic timed switching that can interfere with desired operation.

### Power

The **Power** switch is located on in the center of the front panel. While in the OFF position none of the siren functions will work. The position of this switch does NOT affect the siren backlighting, which remains lit whenever power is applied to terminal 8 (see pages 2 and 3).

### Selector Switch

The rotary selector switch controls the primary operating function of the siren.

**PHSR** - Ultra-fast changing tone used for maximum attention.

**YELP** - A rapidly changing tone used in congested areas.

**WAIL** - A slower changing tone used on highways.

**HF** - Hands Free - A silent standby mode also known as Horn Ring Cycler. Allows the user to cycle through the tones programmed for the WAIL, YELP, PHSR, and OFF by repeatedly pressing the horn or other switch connected to the AUX input. Changing the rotary knob to any other mode will resume normal siren operation.

**MAN** - A silent standby mode that allows push-button Manual, push-button Horn, and Public Address operation. The siren output winds down when the MAN button is released.

**ALERT** - A silent standby mode that allows push-button Manual, push-button Horn and Public Address operation. The siren output terminates immediately when the MAN button is released.

**RADIO** - Also known as Radio Repeat, this function amplifies a radio speaker input for re-broadcast outside the vehicle. The PA remains functional, but no siren tones are available in this position.

**(Operation CONT'D)**

The front panel of the SS670 contains two momentary push-button switches for the Manual function and the Air Horn.



**MAN Button**

Rotary Switch  
Position

Function When MAN Pressed

**MAN or HF**

Produces a rising siren tone while being pressed. The siren output "winds down" when the MAN button is released.

**ALERT**

Also produces a rising tone, but the siren output immediately stops when the button is released.

**PHSR/YELP/WAIL**

The MAN button will "step" the siren up to the tone programmed for the next function:

**(WAIL→YELP→PHSR→Phaser Step Up)**

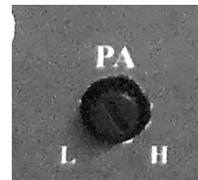
These quicker tones are used to momentarily alert motorists at intersections and very highly congested areas. Pressing the MAN button once changes to the next faster tone. Pressing the MAN button again, reverts the siren back to the original tone.

**HORN Button**

Pressing the HORN button provides a simulated air-horn tone while pressed. This can be used to either replace or to supplement the normal vehicle horn and is useful at intersections. This tone will override all other siren tones. See pages 4-5 for programming optional Air Horn tones.

**PA VOL.**

The **PA** knob is located in the upper right hand corner of the front face. It provides you the ability to adjust the public address volume. It should be set when the vehicle is parked. Typically you should set the PA volume to the maximum possible level with no feedback (squeal).



**Radio Volume**

The radio repeat volume (Radio) control is recessed in the upper left hand corner of the front face. This should be set when the vehicle is parked. First set the volume level of the vehicle's two-way radio to its normal operating volume. Adjust the siren's rotary selector switch into the RADIO position. Insert a small, flat blade screwdriver into the RADIO volume adjustment port. Turn in a clockwise direction to increase the sound level.



**Microphone**

The attached microphone is used for public address operation and overrides any siren tone when its push-to-talk (button on the side) is pressed.



**Auxiliary Input**

During installation an auxiliary input may be connected to the vehicle horn ring or other switching device (see page 3). It provides the same operation as pressing the HORN button or can be programmed to function like the MAN button (see page 5).

## Troubleshooting

This unit is designed to provide years of reliable service under even the worst conditions. Many times there may appear to be a problem with the unit when the true problem is in the speaker(s) or improper installation. The following chart shows typical symptoms and possible causes.

| Symptom                                    | Possible Cause   | Check  |
|--|--|--|
| No power                                   | Connector loose<br>Siren 20A fuse blown<br><br>Loose connection at power source  | Check connector<br>Is power hooked up backwards? Positive ground vehicle?<br>Is an external fuse or circuit breaker used?<br>Are the negative leads connected to a good ground?  |
| No siren tone - PA works                   | High voltage protection<br>Low voltage protection<br>Microphone button stuck<br>Park Kill polarity option set wrong<br>Park Kill activated                       | The input voltage must be less than 16 volts.<br>The input must be greater than 10V with the siren turned on.<br>Does microphone button release properly?<br>Is the PK jumper option properly configured?<br>Does the siren work when Park Kill input is disconnected?   |
| No siren tone - No sound                   | Bad speaker or speaker wiring  | Check for a short.<br>Check for an open.   |
| No PA                                      | PA volume not set properly   | Have you tried turning the PA volume control?  |
| Distorted siren sound                      | Speaker assembly loose<br>Intermittent Aux. Input connection<br>Low or high vehicle voltage  | Is the speaker bell or tip loose?<br>Is the Aux. Input connected properly to horn relay?<br>Input voltage must be between 10 & 16 volts while siren is on and drawing full current.  |
| Intermittent siren tone                    | High voltage protection<br>Low voltage protection<br><br>Microphone button activation<br>Circuit breaker in supply connection<br>Shorted speaker or speaker wire | Is the vehicle voltage regulator working properly?<br>Is the connector tight on the back of the unit? Is there a loose connection on a power lead? The input must be greater than 10V with the siren on and drawing full current.<br>Is something lying on the microphone?<br>Is a circuit breaker used with at least a 50A rating?<br>Does the speaker have water damage, or is a wire pinched? |
| Horn function or Manual or Phaser stuck on | Manual or Horn push buttons stuck<br>Aux. Input improperly connected<br>Aux. Input Polarity Option set wrong   | Does the switch return fully when released?<br>Is the Aux. Input used and wired properly?<br>Is the AUX polarity jumper option properly configured?  |
| No Radio                                   | Unit not connected to radio<br>Radio volume too low  | Is the radio connected properly to the unit?<br>Can you hear the radio in the vehicle?<br>Adjust the Radio volume control  |
| Wrong siren tone                           | Siren tones programmed incorrectly?  | Re-program tones/Use System Reset (page 5)   |

### Speaker Diagnostics

There is a diagnostic LED shaped like a speaker located in the upper right hand corner of the front panel. This LED will only turn on while a tone is trying to be generated. It can be used to help identify the siren/speaker status.

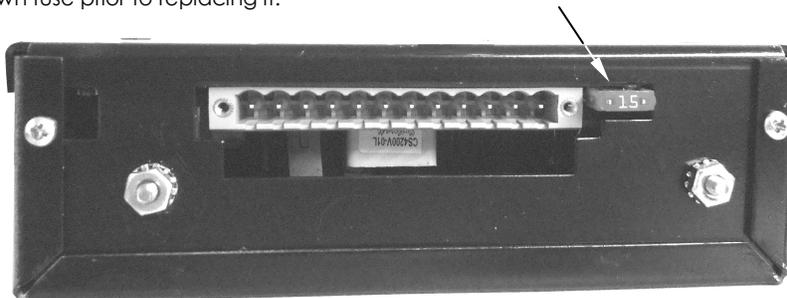


- Steady* - Speaker is connected and operating properly.
- Single Flash* - Standby Mode
- Double Flash* - Short/Over Current
- Quad Flash* - Improper Voltage (too high or low)
- Off* - No speaker is connected, or
  - The siren is Off, or
  - The speaker or wire connection has come loose or is electrically open

(Troubleshooting CONT'D)

### Fuse

This audio and logic circuitry in this unit is protected by a 15A automotive type fuse located on the back of the siren. If it blows, be sure to identify the cause of the blown fuse prior to replacing it.



**Please note:** There should also be separate user-supplied fuse(s) on any power input wires. (See pages 2-3).

## Specifications

|                         |  |
|-------------------------|--|
| Input Voltage           | 10 - 16 VDC (negative ground)  |
| Input Current           | 8.0 Amps @ 13.6 VDC (single 100W speaker)  |
| Standby Current         | Switch Off/Backlighting Off - Less than 4 mA<br>Switch On/Backlighting Off - Less than 7 mA<br>Switch Off/Backlighting On - Less than 18 mA<br>Switch On/Backlighting On - Approx. 22 mA |
| Audio Frequency         | 200Hz - 10 kHz ± 3db   |
| Audio Output Power      | 105 Watts RMS MAX  |
| Siren Frequency         | 675Hz - 1633Hz   |
| High Voltage Protection | 16 - 18 VDC will cause siren output to cease, resumes at normal voltage  |
| Short Circuit Current   | 30 AMPS (supply circuit must be capable of supplying this)   |
| Operating Temperature   | -15° F to +140° F  |
| Connections             | Detachable 12-terminal connector   |
| Size                    | 6" Wide, 4.7" Deep, 2" High  |
| Shipping Weight         | 6 lbs.   |

## Service

### Parts

| Part      | Description                    |
|-----------|--------------------------------|
| S30235-15 | Siren Top Cover                |
| S30234-15 | Siren Bottom Mounting Plate    |
| SWH-152   | Optional Wiring Harness        |
| P30069-38 | Microphone Bracket with Screws |
| P30056-16 | 1/4-20 x 3/8" Hex Locking Bolt |
| P30028-27 | 15 Amp Automotive Fuse         |
| P30232-1  | Noise Cancelling Microphone    |
| P30208-10 | Microphone Strain Relief       |
| P30032-8  | TIP36C Power Transistor        |
| P30239-1  | Rotary Selector Switch Knob    |
| P30147-44 | Mounting Bracket               |
| P30050-14 | Case Screws                    |

## ONE YEAR LIMITED WARRANTY

The manufacturer warrants each new product against factory defects in material and workmanship for one year after the date of purchase. The owner will be responsible for returning to the Service Center any defective item(s) with the transportation costs prepaid. The manufacturer will, without charge, repair or replace *at its option*, products, or part(s), which its inspection determines to be defective. Repaired or replacement item(s) will be returned to the purchaser with transportation costs prepaid from the service point. A copy of the purchaser's receipt must be returned with the defective item(s) in order to qualify for the warranty coverage. Exclusions from this warranty include, but are not limited to, bulbs, strobe tubes, domes, and/or the finish. This warranty shall not apply to any light, which has been altered, such that in the manufacturer's judgment, the performance or reliability has been affected, or if any damage has resulted from abnormal use or service.

There are no warranties expressed or implied (including any warranty of merchantability or fitness), which extend this warranty period. **The loss of use of the product, loss of time, inconvenience, commercial loss or consequential damages, including costs of any labor, are not covered.** The manufacturer reserves the right to change the design of the product without assuming any obligation to modify any product previously manufactured.

This warranty gives you specific legal rights. You might also have additional rights that may vary from state to state. Some states do not allow limitations on how long an implied warranty lasts. Some states do not allow the exclusion or limitation of incidental or consequential damages. Therefore, the above limitation(s) or exclusion(s) may not apply to you.

If you have any questions concerning this or any other product, please contact our **Customer Service Department** at (585) 226-9787.

If a product must be returned for any reason, please contact our Customer Service Department to obtain a Returned Materials Authorization number (RMA #) before you ship the product back.  
Please write the RMA # clearly on the package near the mailing label.



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