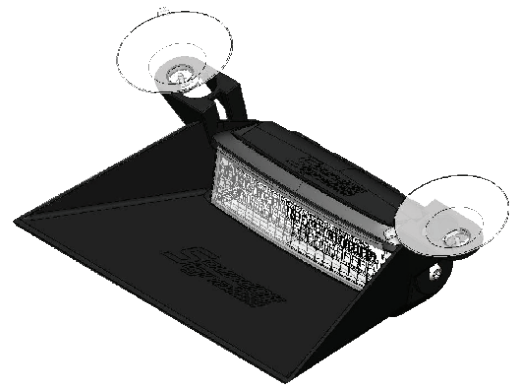




SAE J595 CLASS 1 WINDSHIELD MOUNTS SUCTION CUP MOUNT

ENFSWS(XXX) - SINGLE WINDSHIELD MOUNT
ENFDWS(XXX) - DUAL WINDSHIELD MOUNT



⚠ WARNING ⚠

- HIGH CURRENT interconnects must be properly terminated. Poor crimp quality can cause heat build-up and fire. Follow the crimp connector manufacturer instructions.
- DO NOT install this product or route any wires in the Air Bag Deployment Zone. Refer to vehicle Owner's Manual for deployment zones.
- Do NOT use system to disconnect headlights, brake lights or other safety equipment.
- Unit may become hot to touch during normal operation.
- Failure to properly install connectors, fuses or wiring may cause vehicle failure or fire.
- Installation must only be performed by trained technician. Installer must determine vehicle wiring configuration and proper integration of system.
- Use proper wire gauge. All power wires connecting to positive (+) or negative (-) battery terminal or local chassis ground (-) must be sized to supply at least 125% of max. current and properly fused at power source.
- Install protective grommets when routing wire through firewall or metal.
- Petroleum/silicone based lubricants will cause the silicone lens to discolor.

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⚠ WARNING

ROUTE WIRES ONLY IN LOCATIONS THAT ARE NOT SUBJECTED TO POTENTIAL WEAR. MAKE SURE TO AVOID ROUTING WIRES IN THE DEPLOYMENT AREA OF YOUR AIR BAG. REFER TO YOUR VEHICLE'S OWNER'S MANUAL FOR AIRBAG DEPLOYMENT ZONES.



Scan for the latest version of the instruction sheet

NOTICE:

Installers and users must comply with all applicable federal, state and local laws regarding use and installation of warning devices. *Improper use or installation may void warranty coverage. To review our Limited Warranty Statement & Return Policy for this or any SoundOff Signal product, visit our website at www.soundoffsignal.com/tech-services/returns/. If you have questions regarding this product, contact **Technical Services**, Monday - Friday, 8 a.m. to 5 p.m. ET at 1.800.338.7337 (press #4). Questions or comments that do not require immediate attention may be emailed to techservices@soundoffsignal.com.*

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NFORCE SUCTION CUP ENF(X)WS(XXX)
ENGLISH 0000JL 1023 REV A

SUCTION CUP WINDSHIELD MOUNT SPECIFICATIONS: //

OPERATION:

For details on operation see page with 'Flash Patterns' table on page 4.

TECHNICAL SPECIFICATIONS		
Single Mount Dimensions:	6.80" (173 mm) L x 1.43" (36 mm) H x 5.00" (127 mm) D	
Double Mount Dimensions:	11.35" (288 mm) L x 1.43" (36 mm) H x 5.00" (127 mm) D	
Input Voltage:	10-16 Vdc or 10-32 Vdc*	
SINGLE / DUAL COLOR CURRENT CONSUMPTION (Amps)		
Voltage:	12.8 Vdc	25.6 Vdc
6 LED Single Color 12 LED Dual Color 18 LED Tri Color	< 1.0 Amp	< 0.6 Amp
9 LED Single Color	< 1.5 Amps	< 0.9 Amp
12 LED Single Color	< 2.0 Amps	< 1.2 Amps

*Special Order

12V AUX PLUG OPERATION:

Electrical Connections & Flash Pattern Selection:

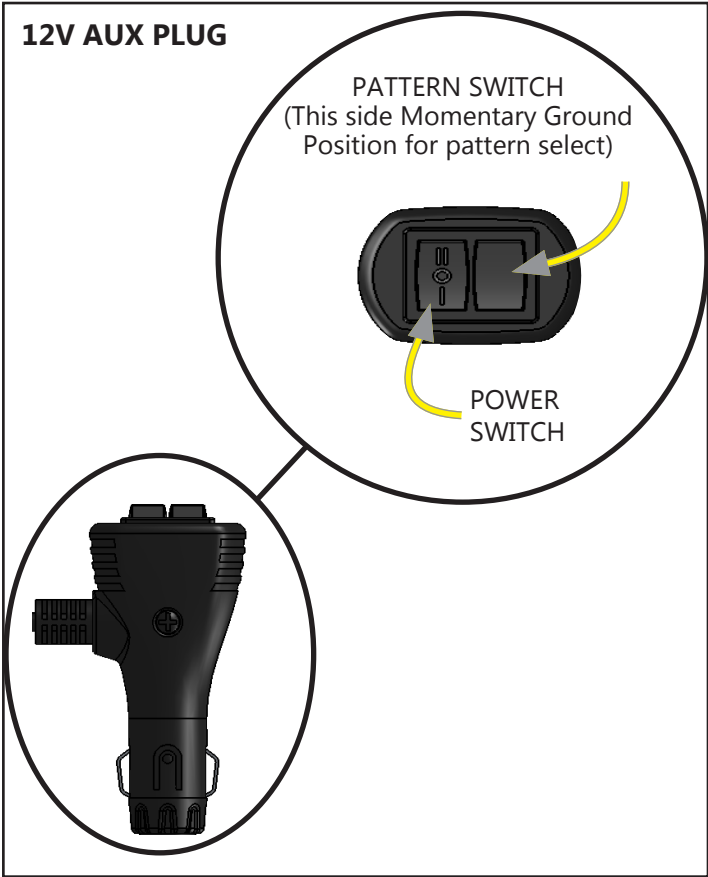
5A max AGC type Fuse. Only replace with same rating and type.

Power Switch:

- (I): Power
- (O): Off Position
- (|I): Secondary Function Wire

Pattern Switch:

- ON POSITION: See Function Table
- OFF POSITION: Switch Centered
- MOMENTARY POSITION: Pattern Select



SUCTION CUP WINDSHIELD MOUNT INSTALLATION: //

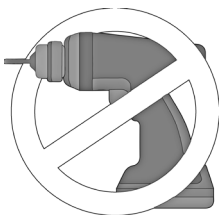
SUCTION CUP MOUNT (FIG. 1)

Windshield should be clean and free of grease or oil. The placement of the windshield mount nFORCE should not restrict driver visibility and the unit should be placed so that air bag deployment will not be restricted. The best place for unit is immediately behind the rear-view mirror.

1. Press suction cups into the side yokes of the light as shown in the illustration (See Figure 1.)
2. Lightly moisten suction cups and press unit firmly in place by pressing the domed shape on the back of each cup (See Figure 2.)

ADJUSTMENT (FIG. 2)

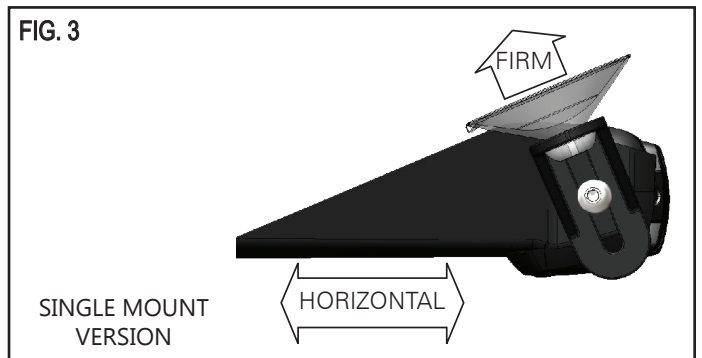
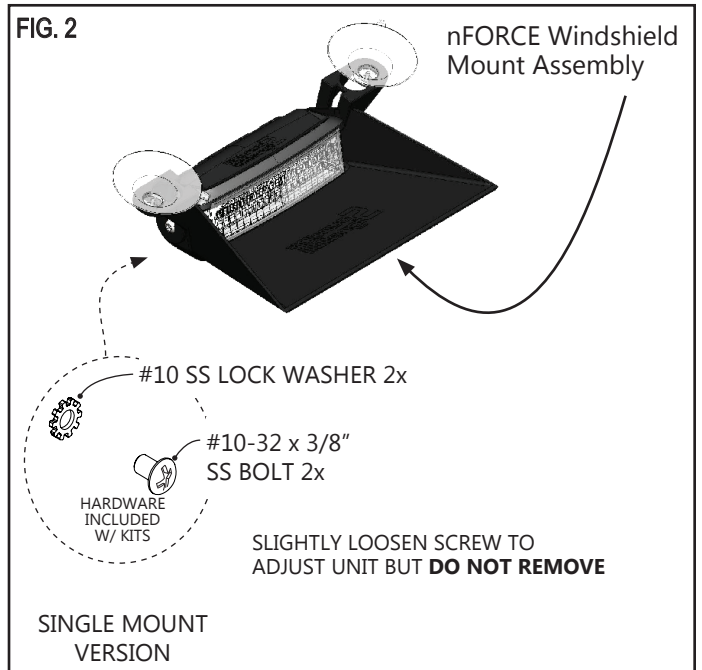
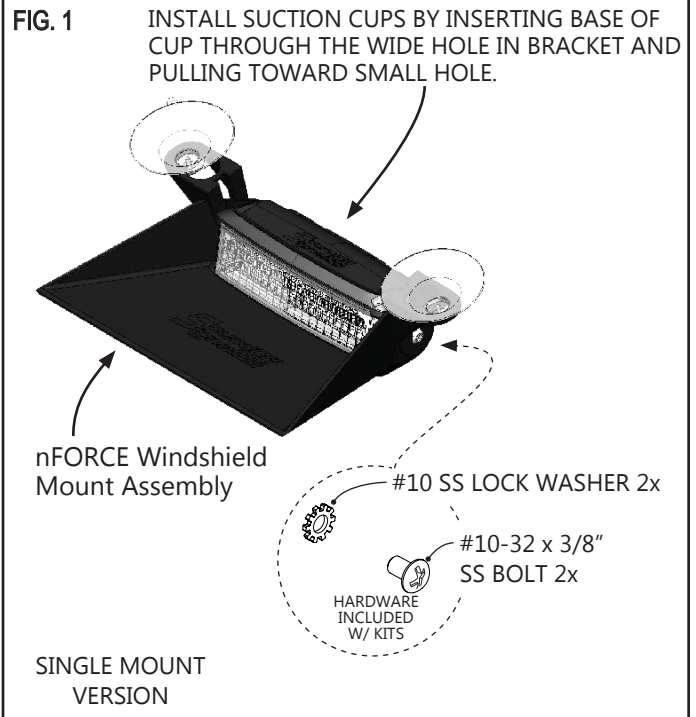
1. Slightly loosen, but **DO NOT REMOVE**, pivot screws on each side of unit.
2. Slide light up until all four edges on shroud are in contact with windshield.
3. Pivot light so that unit will project a horizontal pattern
4. Retighten pivot screws. **CAUTION! DO NOT OVERTIGHTEN SCREWS AS UNIT CAN BE DAMAGED.**



DO NOT USE POWER TOOLS TO TIGHTEN

CHECK FOR PROPER INSTALLATION (FIG. 3)

1. All suction cups are pressed to windshield as firmly as possible.
2. Unit is mounted horizontally.
3. Shroud fits tight against windshield.



ELECTRICAL INSTRUCTIONS:

ADVANCE PATTERN

Flash pattern can only be changed when the LED module is in a flashing mode powered by (I) switch side (disabled in cruise or steady ON functions). When the light is flashing, momentarily press and hold the Pattern Momentary Switch Side for >250mS and <1S (light will go steady high) then release. The flash pattern will advance to the next pattern. If the light module was at the last pattern, the pattern will reset to the 1st pattern.

BACKUP PATTERN

This function is only valid when the LED module is in a flashing mode powered by (I) switch side (disabled in cruise or steady ON functions). When the light is flashing, momentarily press and hold the Pattern Momentary Switch Side for >1S and < 2S (light will go steady high, steady low) then release. The flash pattern will backup to the previous pattern. If the light module was at the first pattern, the pattern will change to the last pattern on the list.

COLOR SWAP

This function is only valid for dual and tri-color light modules and can only be changed when the light module is in a flashing mode powered by (I) switch side (disabled for single color modules and when light module is operating in cruise or steady ON functions). When the light is flashing, momentarily press and hold the Pattern Momentary Switch Side for >2S and <3S (light will go steady high, steady low, off) then release. The light module will switch between Color Swap OFF and Color Swap ON. When Color Swap is OFF, the 1st color will flash 1st on a dual/tri color pattern. When Color Swap is ON, the 2nd color will flash 1st on a dual/tri color pattern.

SIMULTANEOUS/ALTERNATE

This function can only be changed when the LED module is in a flashing mode powered by (I) switch side (disabled in cruise or steady ON functions) and only has an effect only for Dual Windshield Mount. When the light is flashing, momentarily press and hold the Pattern Momentary Switch Side for >3S and <4S (light will go steady high, steady low, off, steady high) then release.

PATTERN RESET

This function is only valid when the LED module is in a flashing mode powered by (I) switch side (disabled in cruise or steady ON functions). When the light is flashing, momentarily press and hold the Pattern Momentary Switch Side for >5S and <6S (light will go steady high, steady low, off, steady high, steady low, off) then release. The flash pattern will reset to the 1st pattern in the list.

FACTORY RESET

This function is only valid when the LED module is in a flashing mode powered by (I) switch side (disabled in cruise or steady ON functions). When the light is flashing, momentarily press and hold the Pattern Momentary Switch Side for >6S and <7S (light will go steady high, steady low, off, steady high, steady low, off, steady high) then release. The LED module will reset to: pattern=1, Function Table=1, Color Swap=OFF, Simultaneous.

SETUP TABLE

SECONDS		USER INTERFACE	
FROM	TO	VISUAL FEEDBACK	ACTION TAKEN
0	1	STEADY-HIGH (60%)	FORWARD ONE PATTERN
1	2	STEADY-LOW (30%)	BACKWARD ONE PATTERN
2	3	OFF	COLOR SWAP (OFF OR ON)
3	4	STEADY - HIGH (60%)	SEQUENCE TYPE: SIMULTANEOUS OR ALTERNATE
4	5	STEADY - LOW (30%)	SEE FUNCTION TABLE
5	6	OFF	RESET TO PATTERN 1
6	7	STEADY-HIGH (60%)	FACTORY RESET (PATTERN 1, COLOR SWAP: OFF, SIMULTANEOUS) SEPARATE COLOR CONTROL: OFF

If held longer than 7 seconds, the light will go back to flashing the current pattern and no action will be taken.

ELECTRICAL INSTRUCTIONS CONTINUED:

FUNCTION TABLES

Changing the function table is only enabled when the LED module is in a flashing mode (disabled in cruise or steady ON functions). The functional operation of the LED module can be changed while powered by (I) switch side with pattern switch momentary side held down. When the light is flashing, hold pattern switch momentary side down >4S and

<5S (light will go steady high, steady low, off, steady high, steady low) then release.

The function table will now advance to the next table (table 1 to table 2, table 2 to table 3, or table 3 to table 1). Repeat above process until required function table is active.

FUNCTION TABLE 1					
WIRE			LIGHT		
POWER (I)	POWER (II)	PATTERN ON POSITION	SINGLE	DUAL	TRI
+9-32V			FLASH	FLASH DUAL	FLASH TRI
	+9-32V		CRUISE	STEADY CLR 2	STEADY CLR 3
+9-32V	+9-32V		FLASH	STEADY CLR 2	STEADY CLR 3
		+9-32V	NO OP	NO OP	NO OP
+9-32V		+9-32V	LOW PWR FLASH	FLASH CLR 1	FLASH CLR 1
	+9-32V	+9-32V	CRUISE	FLASH CLR 2	FLASH CLR 2
+9-32V	+9-32V	+9-32V	LOW PWR FLASH	FLASH DUAL	FLASH CLR 3

FUNCTION TABLE 2					
WIRE			LIGHT		
POWER (I)	POWER (II)	PATTERN ON POSITION	SINGLE	DUAL	TRI
+9-32V			FLASH	FLASH CLR 1	FLASH DUAL
+9-32V		+9-32V	CRUISE	FLASH DUAL	FLASH TRI
	+9-32V		STEADY CLR 1	STEADY CLR 2	STEADY CLR 3
	+9-32V	+9-32V	STEADY CLR 1	STEADY CLR 2	STEADY CLR 3
+9-32V	+9-32V	+9-32V	STEADY CLR 1	STEADY CLR 2	STEADY CLR 3
		+9-32V	NO OP	NO OP	NO OP
+9-32V	+9-32V		STEADY CLR 1	STEADY CLR 2	STEADY CLR 3

FUNCTION TABLE 3					
WIRE			LIGHT		
POWER (I)	POWER (II)	PATTERN ON POSITION	SINGLE	DUAL	TRI
+9-32V			FLASH	FLASH DUAL	FLASH TRI
	+9-32V		FLASH LOW PWR	FLASH DUAL LOW PWR	FLASH TRI LOW PWR
+9-32V	+9-32V		FLASH LOW PWR	FLASH DUAL LOW PWR	FLASH TRI LOW PWR
		+9-32V	NO OP	NO OP	NO OP
+9-32V		+9-32V	FLASH LOW PWR	FLASH DUAL LOW PWR	FLASH TRI LOW PWR
	+9-32V	+9-32V	FLASH LOW PWR	FLASH DUAL LOW PWR	FLASH TRI LOW PWR
+9-32V	+9-32V	+9-32V	FLASH LOW PWR	FLASH DUAL LOW PWR	FLASH TRI LOW PWR

ELECTRICAL INSTRUCTIONS CONTINUED:

SYNC 2

Synchronizing the flashing of multiple light modules is accomplished by connecting the Green or Blue wires of different light modules together. Up to 24 light modules can be connected for synchronized flashing. All light module flash patterns must be set to the same flash pattern # to ensure proper operation.

Refer to the Sequence Type section in Set-Up table to setup light modules to flash in alternate or simultaneous flash pattern. NOTE: Will NOT work with Sync products such as Ghost, LED3, 4-wire Intersector.

FLASH PATTERNS			
PATTERN #	SINGLE COLOR	DUAL COLOR / TRI COLOR	SAE COMPLIANT
1		QUINT	x
2		WARP	x
3		INTER-CYCLE	x
4		DOUBLE	
5		QUAD	x
6		POWER PULSE	x
7		ROAD RUNNER	x
8		Q-SWITCH	x
9		STEADY-BURN / ROADRUNNER (SEQUENCE TYPE 1: STEADY BURN, SEQUENCE TYPE 2: ROADRUNNER)	x
10		STEADY-BURN DRIVER / TITLE 13 QUAD (SEQUENCE TYPE 1: STEADY BURN, SEQUENCE TYPE 2: TITLE 13 QUAD)	x
11		QUAD 2	x
12		DOUBLE 2	x
13		RANDOM 1	x
14		RANDOM 2	x

NOTES:

ELECTRICAL INSTRUCTIONS CONTINUED:

REMOTE MODE: FOR USE WITH bluePRINT SYSTEM ONLY

Connecting the Green or Blue wire to ground before applying power to the Red(Orange) or Red/White(Orange/White) wires will place the LED module into remote mode and the light output color will be directly controlled by the input wires as shown below.

nForce® Secondary LED Light Remote Mode Functionality							
Red or Orange Wire	Red/White or Orange/White Wire	Single Color		Dual Color		Tri Color	
		Color Swap=OFF	Color Swap=ON	Color Swap=OFF	Color Swap=ON	Color Swap=OFF	Color Swap=ON
Cruise	-	Cruise Color 1		Cruise Color 1	Cruise Color 2	Cruise Color 1	Cruise Color 2
-	Cruise			Cruise Color 2	Cruise Color 1	Cruise Color 2	Cruise Color 1
Cruise	Cruise			Cruise Color 2	Cruise Color 1	Cruise Color 3	Cruise Color 3
Flash	-	Flash Color 1		Flash Color 1	Flash Color 2	Flash Color 1	Flash Color 2
-	Flash			Flash Color 2	Flash Color 1	Flash Color 2	Flash Color 1
Flash	Flash			Flash Color 2	Flash Color 1	Flash Color 3	Flash Color 3
Steady ON	-	Steady ON Color 1		Steady ON Color 1	Steady ON Color 2	Steady ON Color 1	Steady ON Color 2
-	Steady ON			Steady ON Color 2	Steady ON Color 1	Steady ON Color 2	Steady ON Color 1
Steady ON	Steady ON			Steady ON Color 2	Steady ON Color 1	Steady ON Color 3	Steady ON Color 3
Cruise	Flash			Flash Color 2/Cruise Color 1 during OFF cycle of Flash	Flash Color 1/Cruise Color 2 during OFF cycle of Flash		
Cruise	Steady ON			Steady ON Color 2	Steady ON Color 1		
Flash	Steady ON			Steady ON Color 2	Steady ON Color 1		

Cruise and Low Power Modes

For Cruise mode or Low Power control of the LED module, the signal to the control wires must be 100 +/- 2Hz using the duty cycle inputs listed below to produce the light output.

Cruise Mode Duty Cycle (@ 100Hz)	
Input	Light Output
40%	OFF
50%	5%
60%	10%

Low Power Flash D.C. (@ 100Hz)	
Input	Light Output
70%	30%
80%	40%
90%	50%

WARRANTY & RETURN GOODS PROCEDURE

WARNING MESSAGES - PLEASE READ:

WARNING - DRILLING ANY HOLES INTO THE LIGHT IS NOT RECOMMENDED! THE RISK OF DAMAGING INTERNAL COMPONENTS AND THE RESULTING FAILURE OF THE LIGHT WILL VOID ANY WARRANTY OF THIS PRODUCT.

WARNING - CARE MUST BE TAKEN WHEN DRILLING THROUGH THE VEHICLE NOT TO DRILL INTO ANY EXISTING WIRING CHECK BOTH SIDES OF THE MOUNTING SERVICE PRIOR TO DRILLING. DE-BURR ANY HOLES AND REMOVE ANY METAL SHARDS OR REMNANTS. INSTALL GROMMETS INTO ALL WIRE PASSAGE HOLES.

WARNING - ROUTE WIRES ONLY IN LOCATIONS THAT ARE NOT SUBJECTED TO POTENTIAL WEAR. MAKE SURE TO AVOID ROUTING WIRES IN THE DEPLOYMENT AREA OF YOUR AIR BAG. REFER TO YOUR VEHICLE OWNER'S MANUAL FOR AIR BAG DEPLOYMENT ZONES.

WARNING - ALL CUSTOMER SUPPLIED POWER WIRES CONNECTING TO THE POSITIVE (+) OR NEGATIVE (-) BATTERY TERMINAL OR LOCAL CHASSIS GROUND (-) MUST BE SIZED TO SUPPLY AT LEAST 125% OF THE MAXIMUM CURRENT AND PROPERLY FUSED AT THE POWER SOURCE WITH APPROPRIATELY RATED FUSE.

WARRANTY RETURN PROCESS:

Please scan QR code or visit
<https://soundoffsignal.com/support-page/returns/>.



Alternatively contact your SoundOff Signal Sales Representative, Customer Services staff or our Technical Department (800.338.7337) for a RMA #, Return Merchandise Authorization Number.

The following information is required for issuance of the RMA #:

- Reason for returning the product*
- Address where replacement product is to be shipped*
- Telephone number where you may be reached*
- SoundOff Signal invoice number on which product was purchased**
- SoundOff Signal part number and serial number**
- E-mail address where RMA # should be e-mailed**
- Fax number where RMA # should be faxed**

* RMA # will not be given without this information.

** If available, please provide this information.

SoundOff Signal will NOT accept returns without an RMA #. Each RMA # is good for only one (1) return and will expire (30) days after the date it was issued. Products must be shipped back to SoundOff Signal and the RMA # clearly marked on the outside of the package near the shipping label. Please use the following address on your shipping label:

SoundOff Signal
 ATTN: RMA # / Technical Services
 3900 Central Parkway
 Hudsonville, MI 49426

WARRANTY EXCLUSIONS:

Shipping & Handling, labor and service fees are non-refundable. SoundOff Signal is not liable for any damage due to installation or personal injury as a result of using SoundOff Signal product.

WARRANTY FORFEITURE:

Warranty will not be granted if the Warranty Return Policy & Procedure rules are not strictly followed. Physical damage resulting from customer abuse will void warranty. Warranty will also be voided if any SoundOff Signal and/or manufacturer serial tags, product stickers, seals, or the like, are removed, altered or tampered with. Returned product that is damaged by shipping via the RMA # procedure is not the responsibility of SoundOff Signal.

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