



**SAE J595 CLASS 1 WINDSHIELD MOUNTS/ SUCTION CUP MOUNT**

**ENFSWS1(xx) - SINGLE WINDSHIELD MOUNT (SHOWN)**

**ENFDWS1(xx) - DUAL WINDSHIELD MOUNT**

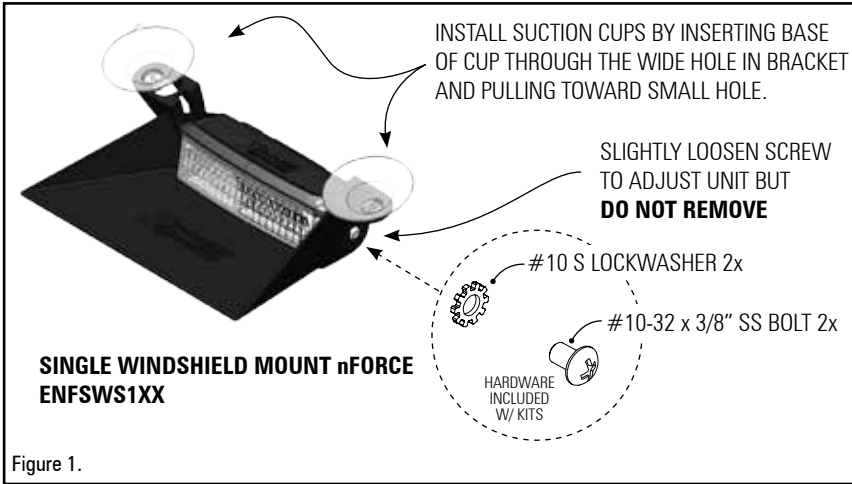


Figure 1.

**WARNING**  
 This product contains high intensity LED devices. To prevent eye damage, DO NOT stare into the light beam at close range.

**WARNING**

- HIGH CURRENT interconnects must be properly terminated. Poor crimp quality can cause heat build-up and fire. Follow 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.
- 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.



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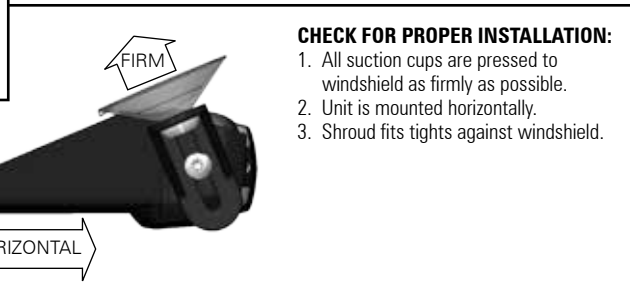


Figure 2.

**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/sales-support](http://www.soundoffsignal.com/sales-support). If you have questions regarding this product, contact **Technical Services**, Monday - Friday, 8 a.m. to 5 p.m. at **1.800.338.7337** (press #4 to skip the automated message). Questions or comments that do not require immediate attention may be emailed to [techservices@soundoffsignal.com](mailto:techservices@soundoffsignal.com).

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**INSTALLATION:**

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:**

- 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.

TECHNICAL SPECIFICATIONS	
WINDSHIELD MOUNT nFORCE	
Single Mount Dimensions:	6.80"L x 1.43"H x 5.00"D
Double Mount Dimensions:	11.35"L x 1.43"H x 5.00"D
Input Voltage:	10 - 16 Vdc
CURRENT CONSUMPTION	
6 LED Single 12 LED Dual & 18 LED Tri-Color	<1.0A @12.8 Vdc
9 LED Single Color	<1.5A @ 12.8 Vdc
12 LED Single Color	<2.0A @12.8 Vdc



**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.

**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.

**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.

**OPERATION:**

Electrical Connections & Flash Pattern Selection:

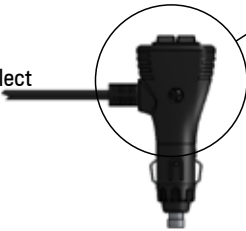
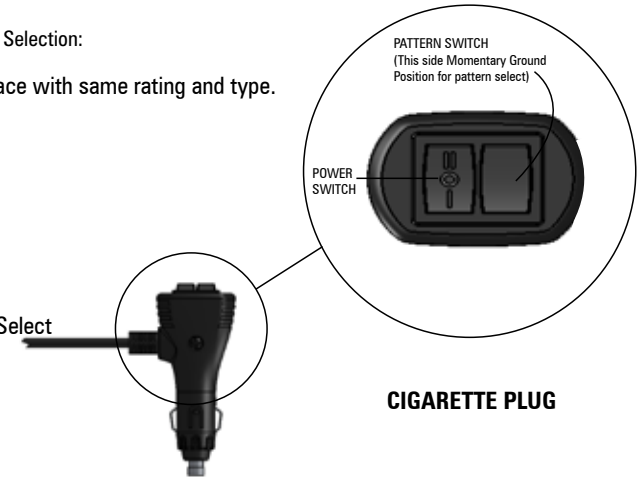
5A max AGC type Fuse. Only replace with same rating and type.

**Power Switch:**

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

**Pattern Switch:**

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



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.**





**OVER-VOLTAGE PROTECTION**

When an over-voltage condition is detected, the module will flash an over-voltage warning pattern of 50mS ON/950mS OFF to alert of the over-voltage condition and protect the electronics from damage due to heat/voltage.

**THERMAL COMPENSATION PROTECTION**

The LED module is designed to provide maximum power output while providing protection to the electronic components by reducing the output power at extreme temperatures.

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



**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					
POWER AND PATTERN SWITCH			LIGHT		
POWER ( I )	POWER ( II )	PATTERN ON POSITION	SINGLE	DUAL	TRI
+12V			FLASH	FLASH DUAL	FLASH TRI
	+12		CRUISE	STEADY CLR 2	STEADY CLR 3
		+12V	NO OP	NO OP	NO OP
+12V		+12V	LOW PWR FLASH	FLASH CLR 1	FLASH CLR 1
	+12V	+12V	CRUISE	FLASH CLR 2	FLASH CLR 2

FUNCTION TABLE 2					
POWER AND PATTERN SWITCH			LIGHT		
POWER ( I )	POWER ( II )	PATTERN ON POSITION	SINGLE	DUAL	TRI
+12V			FLASH	FLASH CLR 1	FLASH CLR 1 & 2
+12V		+12V	CRUISE	FLASH CLR 1 & 2	FLASH CLR 1, 2 & 3
	+12V		STEADY CLR 1	STEADY CLR 2	STEADY CLR 3
	+12V	+12V	STEADY CLR 1	STEADY CLR 2	STEADY CLR 3
		+12V	NO OP	NO OP	NO OP

FUNCTION TABLE 3					
POWER AND PATTERN SWITCH			LIGHT		
POWER ( I )	POWER ( II )	PATTERN ON POSITION	SINGLE	DUAL	TRI
+12V			FLASH	FLASH DUAL	FLASH CLR 1, 2 & 3
	+12V		FLASH LOW PWR	FLASH CLR 1 & 2 LOW PWR	FLASH CLR 1, 2 & 3 LOW PWR
		+12V	NO OP	NO OP	NO OP
+12V		+12V	FLASH LOW PWR	FLASH COLOR 1 & 2 LOW PWR	FLASH CLR 1, 2 & 3 LOW PWR
	+12V	+12V	FLASH LOW PWR	FLASH COLOR 1 & 2 LOW PWR	FLASH CLR 1, 2 & 3 LOW PWR