



# Installation and Operation Instructions ED3801 and ED3802 Directional LED

**IMPORTANT!** Read all instructions before installing and using. Installer: This manual must be delivered to the end user.



**WARNING!**

Failure to install or use this product according to manufacturer's recommendations may result in property damage, serious injury, and/or death to those you are seeking to protect!



**Do not install and/or operate this safety product unless you have read and understood the safety information contained in this manual.**

1. Proper installation combined with operator training in the use, care, and maintenance of emergency warning devices are essential to ensure the safety of emergency personnel and the public.
2. Emergency warning devices often require high electrical voltages and/or currents. Exercise caution when working with live electrical connections.
3. This product must be properly grounded. Inadequate grounding and/or shorting of electrical connections can cause high current arcing, which can cause personal injury and/or severe vehicle damage, including fire.
4. Proper placement and installation is vital to the performance of this warning device. Install this product so that output performance of the system is maximized and the controls are placed within convenient reach of the operator so that they can operate the system without losing eye contact with the roadway.
5. Do not install this product or route any wires in the deployment area of an air bag. Equipment mounted or located in an air bag deployment area may reduce the effectiveness of the air bag or become a projectile that could cause serious personal injury or death. Refer to the vehicle owner's manual for the air bag deployment area. It is the responsibility of the user/operator to determine a suitable mounting location ensuring the safety of all passengers inside the vehicle particularly avoiding areas of potential head impact.
6. It is the responsibility of the vehicle operator to ensure daily that all features of this product work correctly. In use, the vehicle operator should ensure the projection of the warning signal is not blocked by vehicle components (i.e., open trunks or compartment doors), people, vehicles or other obstructions.
7. The use of this or any other warning device does not ensure all drivers can or will observe or react to an emergency warning signal. Never take the right-of-way for granted. It is the vehicle operator's responsibility to be sure they can proceed safely before entering an intersection, drive against traffic, respond at a high rate of speed, or walk on or around traffic lanes.
8. This equipment is intended for use by authorized personnel only. The user is responsible for understanding and obeying all laws regarding emergency warning devices. Therefore, the user should check all applicable city, state, and federal laws and regulations. The manufacturer assumes no liability for any loss resulting from the use of this warning device.

## Specifications:

<b>Input Voltage:</b>		12 - 24VDC
<b>Work Current:</b>	ED3801X	0.8A @ 12VDC
	ED3802XX	0.8A @ 12VDC
	ED3802XXX	0.9A @ 12VDC
<b>Temp. Range:</b>		-40°C to 65°C
		-40°F to 149°F

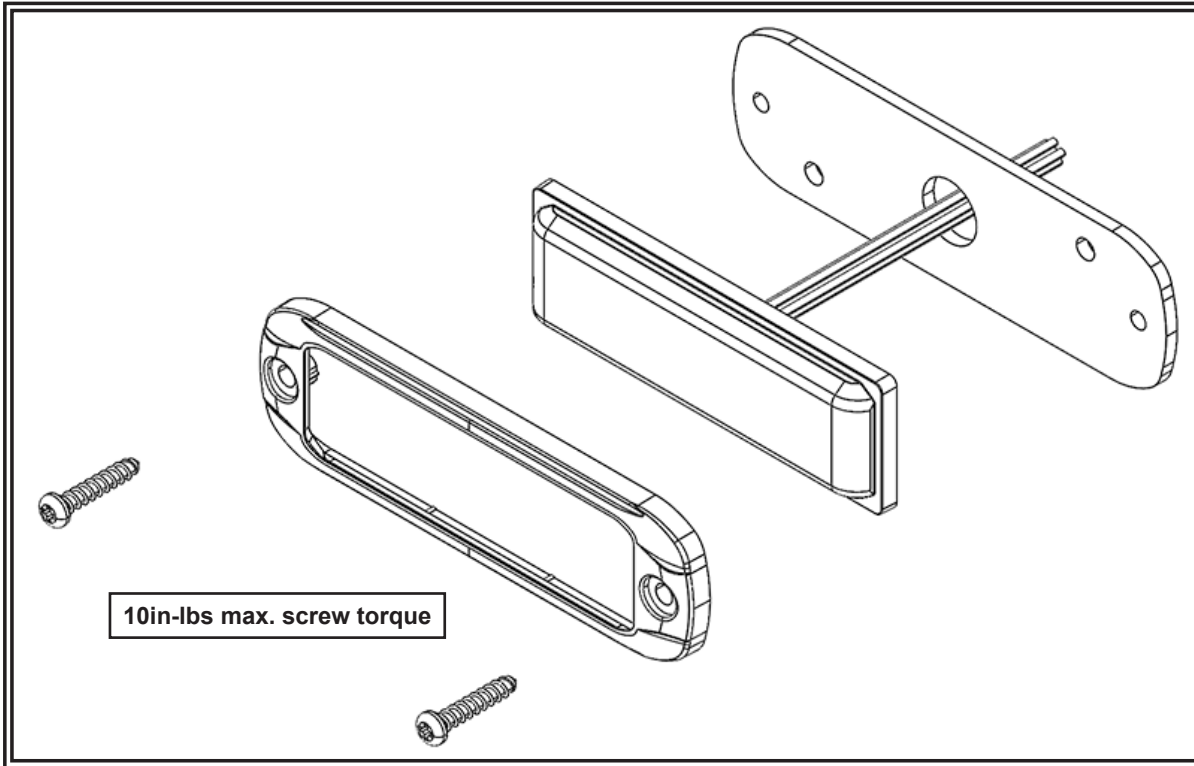
## Installation and Mounting:

**IMPORTANT!** This unit is a safety device and it must be connected to its own separate, fused power point to assure its continued operation should any other electrical accessory fail.



**CAUTION!** When drilling into any vehicle surface, make sure that the area is free from any electrical wires, fuel lines, vehicle upholstery, etc. that could be damaged.

**Note:** It is recommended to isolate wires/blunt wires that were cut or not used.



**Figure 1**

## Wiring Instructions:

### ED3801X

RED Wire: Positive (need to add 2A fuse)  
BLACK Wire: Negative  
BLUE Wire: Pattern Select to Negative  
YELLOW Wire: Synchronized Function  
(Up to 8 units can be Synchronized)

### ED3802XX

RED Wire: Positive, Colors 1 & 3 (need to add 2A fuse)  
WHITE Wire: Positive, Colors 2 & 4 (need to add 2A fuse)  
BLACK Wire: Negative  
BLUE Wire: Pattern Select to Negative  
YELLOW Wire: Synchronized Function  
(Up to 8 units can be Synchronized)

### ED3802XXX

RED Wire: Positive, Group 1 (need to add 2A fuse)  
WHITE Wire: Positive, Group 2 (need to add 2A fuse)  
RED & WHITE Wire: Positive, Group 3 (need to add 2A fuse)  
BLACK Wire: Negative  
BLUE Wire: Pattern Select to Negative  
YELLOW Wire: Synchronized Function  
GREEN Wire: Mode Select  
(Up to 8 units can be Synchronized)

## Flash Patterns:

### Phase Operation:

Phase 1 (Ph1) flashes simultaneously with Ph1  
 Phase 2 (Ph2) flashes simultaneously with Ph2  
 Ph1 alternates with Ph2  
 (Up to 8 units can be Synchronized)

### Apply BLUE TO BLACK wire:

-Less than 1 sec. for next pattern  
 -Between 1-3 sec for previous pattern  
 -Between 3-5 sec. for factory default pattern  
 -More than 5 sec. for pattern 12 (ED3802XX, ED3802XXX) and pattern 13 (ED3801X)

### ED3801X Flash Pattern Chart

PATTERN	MODE	PATTERNS	LAMP SYNCHRONIZE	SAE J595				CA T13			ECE R65		
				RED	AMBER	BLUE	WHITE	RED	AMBER	BLUE	RED	AMBER	BLUE
1	1	Single Flash 75FPM sim. Phase1	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C
	2	Single Flash 75FPM sim. Phase2	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C
	3	Single Flash 75FPM Alt.	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
2	4	Single Flash 120FPM sim. Phase1	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	5	Single Flash 120 FPM sim. Phase2	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	6	Single Flash 120FPM Alt.	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
3	7	Double Flash 75FPM sim. Phase1	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C
	8	Double Flash 75FPM sim. phase2	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C
	9	Double Flash 75FPM Alt.	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
4	10	Double Flash 120FPM sim. Phase1	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1
	11	Double Flash 120FPM sim. phase2	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1
	12	Double Flash 120FPM Alt.	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
5	13-Default	Quad Flash 75FPM sim. Phase1	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	14	Quad Flash 75FPM sim. Phase2	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	15	Quad Flash 75FPM Alt.	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
6	16	Quad Flash 150FPM sim. Phase1	yes	Class 1	Class 1	Class 1	Class 2	N/C	N/C	N/C	N/C	N/C	N/C
	17	Quad Flash 150FPM sim. Phase2	yes	Class 1	Class 1	Class 1	Class 2	N/C	N/C	N/C	N/C	N/C	N/C
	18	Quad Flash 150FPM Alt.	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
7	19	Triple 75FPM sim. Phase1	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	20	Triple 75FPM sim. Phase2	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	21	Triple 75FPM Alt.	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
8	22	Quint Flash 150FPM sim. Phase1	yes	Class 1	Class 1	Class 2	Class 2	N/C	N/C	N/C	N/C	N/C	N/C
	23	Quint Flash 150FPM sim. Phase2	yes	Class 1	Class 1	Class 2	Class 2	N/C	N/C	N/C	N/C	N/C	N/C
	24	Quint Flash 150FPM Alt.	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
9	25	Steady - Single	No	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
10	26	Steady Burn	No	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
11	27	Modulation	No	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
12	28	2 Double Flash,2 Triple Alt.	No	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
13	29	4 Single Flash ,2 Quad Flash Alt.	No	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C

## ED3802XX Flash Pattern Chart

Pattern	LED Color 1 & Color 3 Red Wire	LED Color 2 & Color 4 White Wire	LED Color 1 & Color 3 LED Color 2 & Color 4 Red & White Wire	FLASH PATTERN	SYNCH	SAE J595				CAT 13			ECE R65			
						RED	AMBER	BLUE	WHITE	RED	AMBER	BLUE	RED	AMBER	BLUE	
1	1-Default		1	SAE/T13 Single 75FPM Ph1 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C	
	2		2	SAE/T13 Single 75FPM Ph2 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C	
			3	SAE/T13 Single 75FPM Ph1 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			4	SAE/T13 Single 75FPM Ph2 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		1-Default	5	SAE/T13 Single 75FPM Ph1 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C	N/C
		2	6	SAE/T13 Single 75FPM Ph2 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C	N/C
	3	3	7	SAE/T13 Single 75FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) (Phase 1)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	4	4	8	SAE/T13 Single 75FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) (Phase 2)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	5	5	9	SAE/T13 Single 75FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
2	6		10	Single 375FPM Ph1 Color 1 Synchronous Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	7		11	Single 375FPM Ph2 Color 1 Synchronous Color 3	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			12	Single 375FPM Ph1 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			13	Single 375FPM Ph2 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		6	14	Single 375FPM Ph1 Color 2 Synchronous Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		7	15	Single 375FPM Ph2 Color 2 Synchronous Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	8	8	16	Single 375FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) (Phase 1)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	9	9	17	Single 375FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) (Phase 2)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	10	10	18	Single 375FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	3	11		19	SAE/T13 Double 75FPM Ph1 Color 1 Synchronous (Color 3)	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C
12			20	SAE/T13 Double 75FPM Ph2 Color 1 Synchronous (Color 3)	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C	
			21	SAE/T13 Double 75FPM Ph1 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			22	SAE/T13 Double 75FPM Ph2 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		11	23	SAE/T13 Double 75FPM Ph1 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C	
		12	24	SAE/T13 Double 75FPM Ph2 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	Class B	Class B	Class B	N/C	N/C	N/C	
13		13	25	SAE/T13 Double 75FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) (Phase 1)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
14		14	26	SAE/T13 Double 75FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4) (Phase 2)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
15		15	27	SAE/T13 Double 75FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C

## ED3802XX Flash Pattern Chart (Continued)

Pattern	LED Color 1 & Color 3 Red Wire	LED Color 2 & Color 4 White Wire	LED Color 1 & Color 3 LED Color 2 & Color 4 Red & White Wire	FLASH PATTERN	SYNCH	SAE J595				CAT 13			ECE R65		
						RED	AMBER	BLUE	WHITE	RED	AMBER	BLUE	RED	AMBER	BLUE
4	16		28	ECER65/SAE Double 120FPM Ph1 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1
	17		29	ECER65/SAE Double 120FPM Ph2 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1
			30	ECER65/SAE Double 120FPM Ph1 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			31	ECER65/SAE Double 120FPM Ph2 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		16	32	ECER65/SAE Double 120FPM Ph1 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1
		17	33	ECER65/SAE Double 120FPM Ph2 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	Class 1	Class 1	Class 1
	18	18	34	ECER65/SAE Double 120FPM (Color 1 Synchronous Color 3)Alternately (Color 2 Synchronous Color 4)(Phase 1)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	19	19	35	ECER65/SAE Double 120FPM (Color 1 Synchronous Color 3)Alternately (Color 2 Synchronous Color 4)(Phase 2)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	20	20	36	ECER65/SAE Double 120FPM (Color 1 Alternately Color 2)Alternately (Color 3 Alternately Color 4)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	5	21		37	SAE/T13 Triple 75FPM Ph1 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C
22			38	SAE/T13 Triple 75FPM Ph2 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
			39	SAE/T13 Triple 75FPM Ph1 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			40	SAE/T13 Triple 75FPM Ph2 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		21	41	SAE/T13 Triple 75FPM Ph1 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
		22	42	SAE/T13 Triple 75FPM Ph2 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
23		23	43	SAE/T13 Triple 75FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)(Phase 1)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
24		24	44	SAE/T13 Triple 75FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)(Phase 2)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
25		25	45	SAE/T13 Triple 75FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
6		26		46	SAE/T13 Quad 75FPM Ph1 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C
	27		47	SAE/T13 Quad 75FPM Ph2 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
			48	SAE/T13 Quad 75FPM Ph1 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			49	SAE/T13 Quad 75FPM Ph2 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		26	50	SAE/T13 Quad 75FPM Ph1 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
		27	51	SAE/T13 Quad 75FPM Ph2 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	28	28	52-Default	SAE/T13 Quad 75FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)(Phase 1)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	29	29	53	SAE/T13 Quad 75FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)(Phase 2)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	30	30	54	SAE/T13 Quad 75FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C

## ED3802XX Flash Pattern Chart (Continued)

Pattern	LED Color 1 & Color 3 Red Wire	LED Color 2 & Color 4 White Wire	LED Color 1 & Color 3 LED Color 2 & Color 4 Color 4 Red & White Wire	FLASH PATTERN	SYNCH	SAE J595				CAT 13			ECE R65		
						RED	AMBER	BLUE	WHITE	RED	AMBER	BLUE	RED	AMBER	BLUE
7	31		55	ECER65/SAE Quad 120FPM Ph1 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	32		56	ECER65/SAE Quad 120FPM Ph2 Color 1 Synchronous Color 3	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
			57	ECER65/SAE Quad 120FPM Ph1 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
			58	ECER65/SAE Quad 120FPM Ph2 Color 1 Alternately Color 4	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		31	59	ECER65/SAE Quad 120FPM Ph1 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
		32	60	ECER65/SAE Quad 120FPM Ph2 Color 2 Synchronous Color 4	yes	Class 1	Class 1	Class 1	Class 1	N/C	N/C	N/C	N/C	N/C	N/C
	33	33	61	ECER65/SAE Quad 120FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)(Phase 1)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	34	34	62	ECER65/SAE Quad 120FPM (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)(Phase 2)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
	35	35	63	ECER65/SAE Quad 120FPM (Color 1 Alternately Color 2) Alternately (Color 3 Alternately Color 4)	yes	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
8			64	Modulation (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
9			65	2 Double, 2 Quad (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
10			66	4 Single, 2 Triple (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
11			67	1 Double 1 Triple 1 Quad (Color 1 Synchronous Color 3) Alternately (Color 2 Synchronous Color 4)	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
12	36		68	Steady burn-Color 1 & 3	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
		36	69	Steady burn-Color 2 & 4	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C











# ED3802XXX Flash Pattern Chart (Continued)

Group 1 (Red Wire)										Group 2 (White Wire)										Group 3 (Red & White Wire)										FLASH PATTERN	SYNC	SAE J1956					CA T13				
Mode Color 1	Mode Color 2	Mode Color 3	Mode Color 1&2	Mode Color 1&3	Mode Color 2&3	Mode Color 1&2&3	Mode Color 1	Mode Color 2	Mode Color 3	Mode Color 1&2	Mode Color 1&3	Mode Color 2&3	Mode Color 1&2&3	Mode Color 1	Mode Color 2	Mode Color 3	Mode Color 1&2	Mode Color 1&3	Mode Color 2&3	Mode Color 1&2&3	Mode Color 1	Mode Color 2	Mode Color 3	Mode Color 1&2	Mode Color 1&3	Mode Color 2&3	Mode Color 1&2&3	no	RED			AMB	BLU	WHT	RED	AMB	BLU				
1	2	3	1&2	1&3	2&3	1&2&3	1	2	3	1&2	1&3	2&3	1&2&3	1	2	3	1&2	1&3	2&3	1&2&3	1	2	3	1&2	1&3	2&3	1&2&3	no	RED			AMB	BLU	WHT	RED	AMB	BLU				
		19							19							19							19					NFR-Quad Flash 7SPFM Color 3	no	CLS	CLS	CLS	CLS	CLS	CLS	CLS	CLS	CLS	CLS		
20							20							20							ModFlash sm. Color 1	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
	20							20							20						ModFlash sm. Color 2	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
		20							20							20					ModFlash sm. Color 3	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
21							21							21							2 Double Flash 2 Quad Flash Color 1	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
	21							21							21						2 Double Flash 2 Quad Flash Color 2	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
		21							21							21					2 Double Flash 2 Quad Flash Color 3	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
22							22							22							4 Single Flash 2 Triple Flash Color 1	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
	22							22							22						4 Single Flash 2 Triple Flash Color 2	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
		22							22							22					4 Single Flash 2 Triple Flash Color 3	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
23							23							23							Autorun Color 1	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
	23							23							23						Autorun Color 2	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
		23							23							23					Autorun Color 3	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
24							24							24							Steady Burn Color 1	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
		24							24							24					Steady Burn Color 2	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				
	24							24							24						Steady Burn Color 3	no	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C				

## Troubleshooting:

The ED3801X, ED3802XX, and ED3802XXX series are factory tested and approved. If any of the functions of the device fail to operate, please check the following:

PROBLEM	QUESTION	CAUSE	SOLUTION	
Product does not function when turned on	Are LEDs functioning properly?	Yes	a. Plug is loose or disconnected. b. Poor ground connection	a. Reconnect plug. b. Reconnect ground.
		No	a. Power has been disconnected.	a. Check connections at the battery and plug.

## Warranty:

### Manufacturer Limited Warranty Policy:

Manufacturer warrants that on the date of purchase this product will conform to Manufacturer's specifications for this product (which are available from the Manufacturer upon request). This Limited Warranty extends for Sixty (60) months from the date of purchase.

**DAMAGE TO PARTS OR PRODUCTS RESULTING FROM TAMPERING, ACCIDENT, ABUSE, MISUSE, NEGLIGENCE, UNAPPROVED MODIFICATIONS, FIRE OR OTHER HAZARD; IMPROPER INSTALLATION OR OPERATION; OR NOT BEING MAINTAINED IN ACCORDANCE WITH THE MAINTENANCE PROCEDURES SET FORTH IN MANUFACTURER'S INSTALLATION AND OPERATING INSTRUCTIONS VOIDS THIS LIMITED WARRANTY.**

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