In-Line Flasher with Hideaway Undercover LED Heads





In-Line Flasher with Detachable Unidirectional LED Head



In-Line Flasher with Detachable Spherical LED Head



PLIT440GEN REV. E 8/10/20

NOTICE

Due to continuous product improvements, we must reserve the right to change any specifications and information, contained in this manual at any time without notice. The manufacturer makes no warranty of any kind with regard to this manual, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. The manufacturer shall not be liable for errors contained herein or for incidental or consequential damages in connection with the furnishing, performance, or use of this manual.



This device may be regulated by Federal, State, and/or Local ordinances. These devices may be used ONLY on approved vehicles. It is the sole responsibility of the user to ensure compliance.



This light utilizes high-intensity LED Lamps. DO NOT stare directly into the light while it is on, as momentary blindness and/or permanent eye damage may occur.

IMPORTANT: Please read all of the following instructions before installing your new light. Failure to follow these safety precautions may result in damage to your light or vehicle and may result in serious injury or death to you and your passengers.

Versions and Parts

There are 8 different kits available:

In-Line Flasher with Detachable Unidirectional LED Head and 10-foot cable In-Line Flasher with Detachable Unidirectional LED Head and 30-foot cable In-Line Flasher with Detachable Spherical LED Head and 10-foot cable In-Line Flasher with Detachable Spherical LED Head and 30-foot cable

Each kit will also include one corresponding filter of each color (Clear, Amber, Blue, and Red):

Colored Filter for Unidirectional LED Head (*=color) Colored Filter for Spherical LED Head (*=color)

Each kit will also include the following:

Tie Wrap (QTY=2) 5/8" Philips Head Screw (Quantity=2 - for mounting heads) Gasket for LED Head

Optional Cables:

SWH-L4	4' Extension Cable for Detachable LED Heads
SWH-L8	8' Extension Cable for Detachable LED Heads
SWH-L15	15' Extension Cable for Detachable LED Heads
SWH-L20	20' Extension Cable for Detachable LED Heads
SWH-L25	25' Extension Cable for Detachable LED Heads
SWH-L30	30' Extension Cable for Detachable LED Heads
SWH-L35	35' Extension Cable for Detachable LED Heads

Installation Notes

<u>Please Note:</u> These instructions are provided as a general guideline only. Some vehicles may require special mounting, wiring, and/or weather-sealing. This is the sole responsibility of the installer. The manufacturer assumes no responsibility for the integrity of the installation for this or any of its products.

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

- The installer must have a firm knowledge of basic electricity, vehicle electrical systems, and emergency equipment.
- If you need to drill any holes when installing this product, please take care to check that BOTH SIDES of your drilling surface are clear from obstructions, to ensure that you do not damage your vehicle and or pre-existing wiring.
- Controls should be placed within convenient reach of the driver.

Before beginning the installation:

- Determine where the heads are to be mounted.
- Determine where you will mount the switch.
- Determine if you will be synchronizing your flasher with any other flashers or other synchronizable products.
- Verify that you have a clear path to run your wires between the heads, flasher unit(s), switch, and any other lights that the flasher will be synchronized with.

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



- Each LED head has its own in-line flasher.
- The LED light heads must be installed inside an existing light assembly on the vehicle.
- The unidirectional light heads must be installed vertically to ensure proper light distribution.
- The spherical light heads can be installed in any direction.
- The unidirectional light heads should only be installed in a 1" hole on a *top* or *bottom* surface that allows the base of the head to be *horizontal*.
- <u>Both</u> the unidirectional and spherical heads should have 3" diameter total clearance inside the housing (allows 1" clearance on all sides of the head).
- The in-line flasher should be secured to the vehicle so that it does not pull on any of the wires.

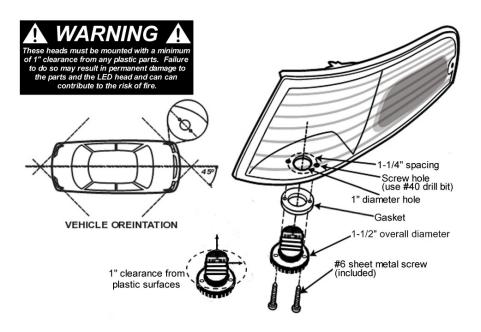
Installation

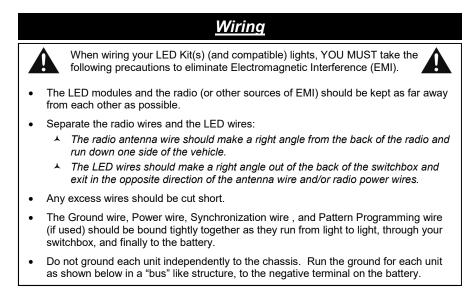
- 1. Establish a location for each in-line flasher unit that is close enough to the location where the LED head will be mounted. The location should have limited exposure to the environment (e.g. trunk, engine compartment, cab, etc.). Use the two tie wraps enclosed to mount the unit, taking care not to bend the flasher.
- 2. Determine a path for the cable from the flasher, keeping in mind that you will have to connect the wires from units that are synchronized with one another.
- 3. Remove the headlight or taillight assembly according to the vehicle manufacturer's instructions.
- 4. Find a location on each light assembly that will accommodate proper mounting of the light head as well as not interfere with other components.

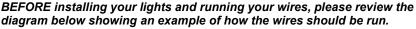


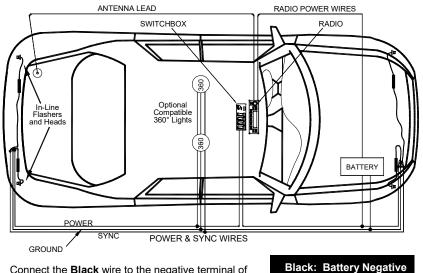
WARNING!! The heat output of the LED head can melt plastic if it is not installed with adequate space around the unit. A minimum of 1" clearance is recommended.

- 5. Using a #40 bit, drill your holes according to the diagrams below. *For the Unidirectional* heads, take care to drill the screw holes so that when installed, the heads will be directed out of the corners at a 45° angle (see diagram below).
- 6. Place a gasket over each head and install the heads using the 5/8" Philips head screws included.
- 7. Re-assemble the light housings on your vehicle.









1. Connect the Black wire to the negative terminal of your battery.

+12-24 VDC.

- Red: +12-24 VDC White: Synchronization 2. Connect the Red wire to your switch that supplies Green: Pattern Select
- 3. If you are synchronizing two or more flasher units, run the White wires along with the Red and Black wires to each unit (as shown above), but DO NOT CONNECT THE WHITE WIRES UNTIL PROGRAMMING HAS BEEN COMPLETED (see next two pages). Note: The total distance between the two farthest units should be no more than 40 feet. If you are NOT synchronizing units, cut this wire short and tape it off.
- 4. The Green is used for Pattern Programming (see next page).

Pattern Programming

This unit has twelve different **Flash Patterns** to select from in each of two different Phases, as well as a Steady Burn Pattern.

- 1. Power up the unit by connecting the red and black wires.
- 2. If needed, change the flash pattern by touching and releasing the Green wire to BAT Neg/Ground.
- After the pattern has been set, tape or place a wirenut over the end of the green wire to prevent it from coming into contact with ground.

Shortcuts	Pattern Description	Pattern Type	Phase 2 Flash Pattern	
Pattern 1 (Phase 1): 3 sec or 1 flash Pattern 13 (Phase 2): 9 sec or 3 flashes	Flicker -	K	13	1
	Fast Doubleflash	L	14	2
	Tripleflash	м	15	3
	PSU-flicker	Ν	16	4
	PSU Random	0	17	5
Pattern 6 (Phase 1): 6 Sec or 2 flashes Pattern 18 (Phase 2): 12 sec or 4 flashes	Quadflash 🚽	F	18	6
	Quadflash w/Post-Pop	G	19	7
	Singleflash	Н	20	8
	Doubleflash	1	21	9
	Delta-Omega	J	22	10
	Post Pop	С	23	11
	Random	E	24	12
18 Sec/5 Flashes	Steady	NA		

Pattern Shortcuts: Hold Green wire to ground for indicated time.

Steady Burn: Not in pattern cycle. Only accessible through shortcut. Hold Green wire to ground for 18 seconds (light will flash 5 times).

SYNCHRONIZATION

You can synchronize up to six lights with SYSTEM compatibility.

DO NOT CONNECT WHITE WIRES UNTIL PROGRAMMING HAS BEEN COMPLETED FOR ALL LIGHTS!!

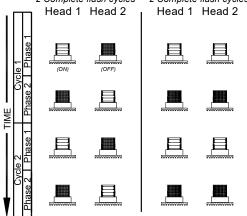
- 1. Power up the first unit and select a Phase 1 pattern. Touch and release the green wire to ground to change patterns.
- 2. Program the second light with the same *Pattern Type*.

Lights with the SAME phase flash together (simultaneous).

Lights with DIFFERENT phases flash opposite one another (alternate).

- 3. After programming all lights, tie off the green wires and connect the white wires together.
- 4. Test lights by applying power to all of them at the same time.

Alternating Pattern Simultaneous Pattern 2 Complete flash cycles 2 Complete flash cycles





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