Hide-A-LED™

9031

ECCO®

TECHNICAL SPECIFICATIONS

BLUE & CLEAR
INPUT VOLTAGE .... 10 to 30 Volts DC.
INPUT CURRENT .... 0.5A @ 12.8V, 0.2A @ 25.6V
LIGHT OUTPUT .... BLUE: 155+ LUMENS
CLEAR: 660+ LUMENS

RED & AMBER
INPUT VOLTAGE .... 12.8V (10 to 16 Vdc)
INPUT CURRENT .... 0.25 Amps
LIGHT OUTPUT .... AMBER: 160+ LUMENS
RED: 123+ LUMENS

CABLE LENGTH .... 9 FT.
LED ELEMENTS 4
FLASH PATTERNS .... 16 (8 Standard, 8 optional cycle)
MAX NUMBER OF SYNC'D HEADS 64
WARRANTY PERIOD .... 5 YEARS

DIMENSIONS

0.93"
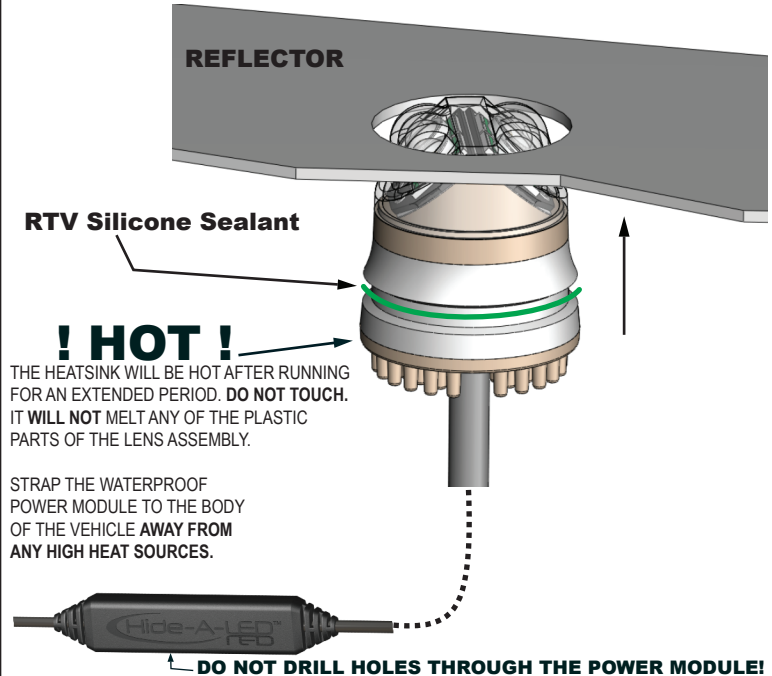⌀ 1.096"
4.830"
0.86"
(1.335")
(0.477")
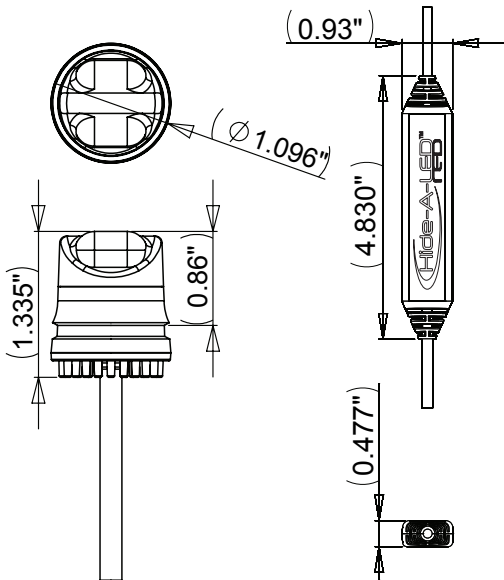
ITEMS INCLUDED

(1) HIDE-A-LED HEAD WITH BUILT IN POWER MODULE
AND 9' CABLE.

MOUNTING

Drill a 1" diameter hole in the reflector of the lens assembly. A 1" hole saw is typically used. Apply RTV Silicone sealant to the groove in the rubber sleeve and press into the hole. Apply any additional sealant needed to ensure that water does not enter the vehicle lens assembly.

LOCATE LED HEAD AT LEAST 1" AWAY FROM ANY FACTORY BULBS!

REFLECTOR

RTV Silicone Sealant

! HOT !

THE HEATSINK WILL BE HOT AFTER RUNNING FOR AN EXTENDED PERIOD. **DO NOT TOUCH.** IT **WILL NOT** MELT ANY OF THE PLASTIC PARTS OF THE LENS ASSEMBLY.

STRAP THE WATERPROOF POWER MODULE TO THE BODY OF THE VEHICLE **AWAY FROM ANY HIGH HEAT SOURCES.**

DO NOT DRILL HOLES THROUGH THE POWER MODULE!

FOR DUAL WALL REFLECTORS: FIRST USE A 1.5" HOLE SAW TO DRILL THROUGH OUTER LAYER ONLY. THEN USE 1" HOLE SAW TO DRILL THROUGH INNER LAYER USING SAME PILOT DRILL HOLE. INSTALL THE LED HEAD THROUGH THE 1.5" HOLE AND POP INTO THE 1" HOLE. SEAL THE GAP BETWEEN THE REFLECTOR WALLS WITH SEALANT.

ELECTRICAL CONNECTIONS

The cable on the HIDE-A-LED™ was made long enough to run across the front or the rear of a vehicle. Trim the cable shorter if needed. The wiring diagram on page 2 shows a typical install.
RED: +V
Connect to +V through an ON/OFF switch.
The use of a fuse located close to the voltage source is recommended. Size the fuse according to the number of heads used in the system.
18AWG or larger wire is recommended.
BLACK: - GROUND
Connect to - GROUND vehicle chassis.
18AWG or larger wire is recommended.
BLUE: Flash pattern SYNC and SELECTION wire.
If you wish to have all the LED heads synchronize their flash timings and patterns with each other then all the BLUE wires must be connected together. (64 Heads Maximum)
The BLUE wire is also used to select the flash pattern.
Touch the BLUE wire to +V to select the next pattern in the FLASH PATTERN LIST. The BLUE wire can also be run to a momentary push-button located on the dashboard to allow the flash pattern to be changed when desired.
Note: Do not connect the BLUE wire to - Ground.
It will disrupt the flash pattern sync signal.

YELLOW: Alternating / Simultaneous selection.
The BLUE wires of all HIDE-A-LED™ heads must be connected together for the alternating /simultaneous function to work.
Connect to either +V or GROUND (GND).
The YELLOW wire makes the head fire AT THE SAME TIME or ALTERNATING with the other heads in the system.
Heads with YELLOW connected to +V fire at the same time.
Heads with YELLOW connected to GND fire at the same time.
Heads with YELLOW connected to +V will ALTERNATE with heads that have YELLOW connected to GND.
The YELLOW wire has no function in STEADY ON mode.

WIRING DIAGRAM

INSTALLATION OF 4 HIDE-A-LED™ USING AN ON/OFF SWITCHAS WELL AS A MOMENTARY SWITCH TO SELECT FLASH PATTERNS (NOT SUPPLIED)
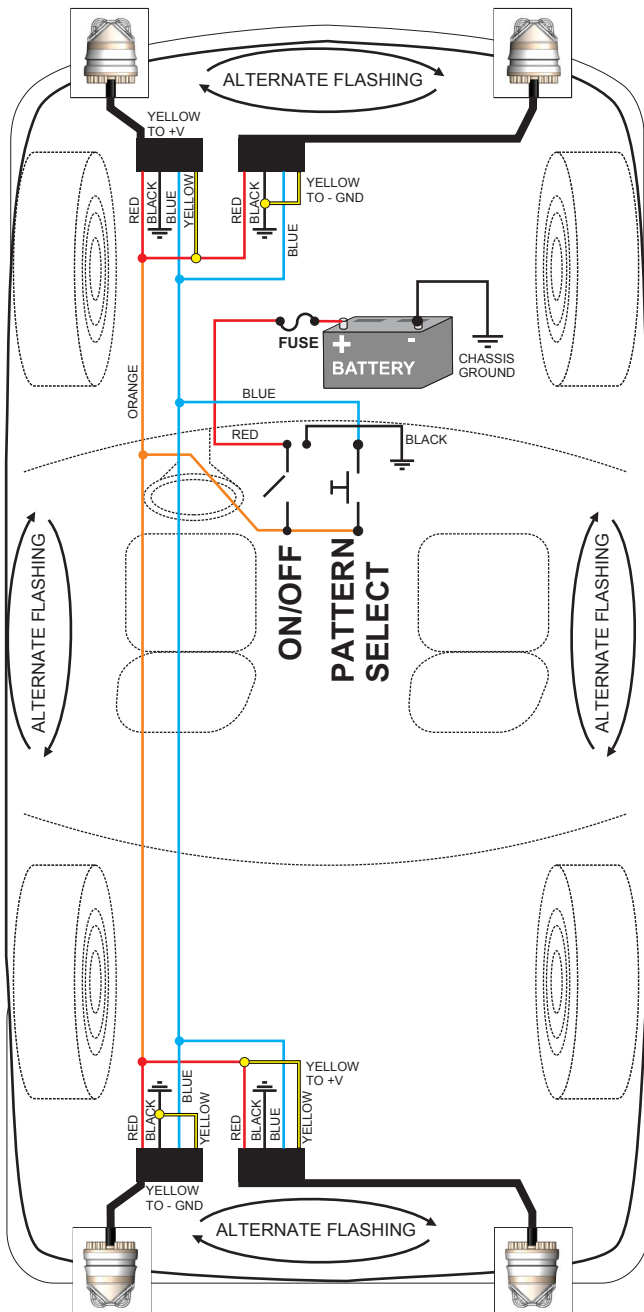
HIDE-A-LED™ Is a trademark of Nova Electronics

FLASH PATTERNS

POWER-UP RESET:
After installing the system it is best to do a POWER-UP RESET the first time to ensure that all heads are in sync.
Touch **BLUE** wires to +V (**RED** wire) while applying power.
Release BLUE wires. All heads will reset to Pattern #2.
If you have installed a pattern select push-button, press and hold pattern select while turning power switch ON.

To select a flash pattern, touch **BLUE** to +V or press pattern select switch to increment the flash pattern. The heads will remember the selected pattern even if power is removed.

#	Pattern:	Frequency:	Description:
	STANDARD PATTERNS		
1	**Quad Flash**	1.25 Hz	75 Quad Flashes Per Minute
2	**Double Flash**	1.25 Hz	75 Double Flashes Per Minute
3	**Triple Flash**	1.53 Hz	92.3 Triple Flashes Per Minute
4	**DeciBlast**	1.42 Hz	85.5 Deci Flashes Per Minute
5	**Single Flash**	1.25 Hz	75 Single Flashes Per Minute
6	**Mega Flash**	1.90 Hz	114 Single Flashes Per Minute
7	**Triple+Burst**	1.37 Hz	82.5 Triple+Burst Flashes Per Minute
8	**Steady On**		Steady on. **Split Color = Fast Mega**
	CYCLE PATTERNS		
9	**Cycle All**		Cycle through patterns 1 to 7
10	**Double-Triple+Burst**		2 Double, 2 Triple+Burst cycle
11	**Cycle Classic**		1 Double, 1 Quad, 2 Mega cycle
12	**Quad-Mega**		3 Quad, 4 Mega cycle
13	**Single-Quad**		2 Single, 2 Quad cycle
14	**DeciBlast-Quad**		2 DeciBlast, 2 Quad cycle
15	**Single-Triple-DeciBlast**		2 Single, 2 Triple, 2 DeciBlast cycle
16	**Mega-Triple+Burst**		1 Mega, 1 Triple+Burst cycle

(Left margin labels: STANDARD ONLY / STANDARD + CYCLE)

STANDARD PATTERNS:
The HIDE-A-LED™ ships with only the standard patterns enabled (1 through 8). To enable cycle flash patterns follow the procedure below.

CYCLE PATTERNS:
You may add patterns 9 through 16 by following this procedure:
1) Touch **BLUE** wires to +V (**RED** wire) while applying power.
If you have installed a pattern select push-button, press and hold pattern select while turning power switch ON.

2) Hold **BLUE** wires on +V for 5 SECONDS (heads will not be flashing during this time). After 5 SECONDS the heads will flash once or twice to indicate the flash pattern list that has been selected:
ONE FLASH = Standard Patterns only.
TWO FLASHES = Standard + Cycle Patterns.

3) Remove the **BLUE** wires from +V (or release push-button).

You may switch the pattern set at any time as many times as you wish. All heads will remember the pattern set that was selected even when power is removed.

TROUBLESHOOTING

HEAD NOT FLASHING:
Check the RED and BLACK wires for a reversed connection. (Reverse connection will not damage the unit). Check RED and BLACK wires for either a bad splice or a corroded ground connection.

HEADS NOT SYNCHRONIZING:
Check for a short circuit on the BLUE wire to either +V or GROUND.
Saltwater on the wire connections will short circuit the sync signal on the BLUE wire. Check for non-functional heads in the system. If any one of the heads has a bad GROUND connection it can cause the sync signal to become corrupted. If any one of the heads has its RED and BLACK wires reverse connected it will corrupt the sync signal.

FLASH PATTERN CHANGING:
If the flash pattern changes on its own there may be an intermittent short between the BLUE wire and +V. Check for water in the wiring connections. If any one of the heads in the system has an intermittent GROUND connection it can also cause the flash pattern to change.

Learn more about emergency and warning lighting on our website.