



Please Note: These instructions are provided as a general guideline only. Specific mounting, wiring, and/or weather-sealing may be necessary and are the sole responsibility of the installer. The manufacturer assumes no responsibility for the integrity of the installation for this or any of its products.



DO NOT stand within 7" of the light when it is illuminated!!

Note: Auxiliary light does NOT illuminate all objects.

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

- Improper installation may result in serious injury, property damage, or death. The installer must have a good understanding of automotive electronics, systems, and procedures.
- If you are drilling any holes while mounting this light, please be sure to check both sides of the surface to ensure that you do not damage anything. De-burr all holes.
- Ensure that any switches used are located in an area that allows the vehicle and device to be operated safely in any driving condition.
- Use a minimum 18AWG wire for electrical connections and a 10A fuse at the power source, ensuring both positive and ground connections are dependable.
- Test the light and inspect all wiring each time you use the vehicle to ensure that it is functioning properly. If it is not functioning properly, do not operate the vehicle!!
- Use only soap and water to clean this product. Use of harsh chemicals could cause the domes to haze and may lead to diminished light output reducing the effectiveness. Do not use a power washer to clean this product.

Wiring Notes



When wiring your lights, it is recommended that you take the following precautions to reduce any Electromagnetic Interference (EMI).

- Keep LED modules and any radios as far away from each other as possible.
- Separate the radio wires and the LED wires.
- Any excess wires should be cut short.
- The GROUND and POWER wires should be bound tightly together as they run from light to light, through your switchbox, and to the battery.
- **Do not ground each unit independently to the chassis.** Run the ground for each unit in a "bus" like structure, to the negative terminal on the battery.

Surface Mounting Instructions

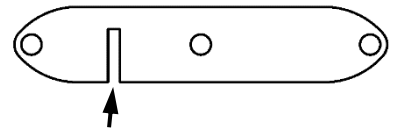
Note: Lights must be mounted a **MINIMUM** of 12" apart.



Several mounting brackets are available if mounting directly to the surface is not desired. Please visit our website for a complete list of brackets.

For surface mounting, use the gasket as a template to mark and drill three 1/8" holes for the self tapping screws and wires.

Rubber Mounting Gasket
P30047-174



Remove the one gasket slit that is open to the bottom and ensure it is aligned with the Gortex™ pad on the rear of the light. This will allow air to circulate through the pad, helping reduce condensation.



MUST DRILL HOLES THE SPECIFIED SIZES!!!

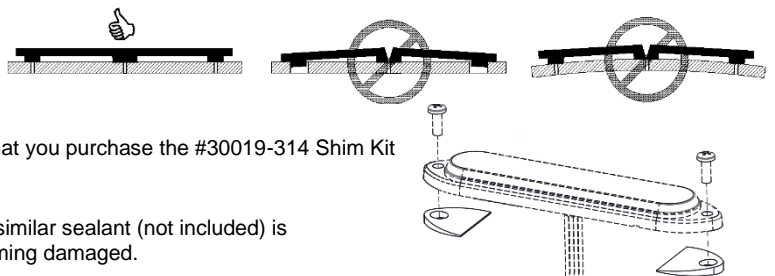


DO NOT OVER TIGHTEN SCREWS!! TORQUE TO 10 IN.-LBS.!!



MUST USE #6 STAINLESS STEEL SCREWS!!

Unless you are using the optional shims, this light must be mounted on a perfectly flat surface!! Failure to do so will result in damage to the housing and will void the warranty!



If you are installing this light on a curved surface, it is recommended that you purchase the #30019-314 Shim Kit and install the shims as pictured to the right.

Once the wires are run, the use of a small amount of silicone or other similar sealant (not included) is recommended to seal the wire hole and prevent your wires from becoming damaged.

Electrical Connections and Programming

PATTERN PROGRAMMING

With the light powered up, touch and release the GREEN wire to Ground to scroll through the list of patterns shown to the far right.

PROGRAMMING SHORTCUTS

To access the programming shortcuts shown to the right, with the light activated, hold the GREEN wire to Ground for the indicated number of flashes.

Flashes	Function
1	Sets to Pattern #1
2	Toggles Auto Dim On/Off
3	Sets Light in Phase 1
4	Sets Light in Phase 2

SYNCHRONIZATION

You can synchronize up to ten lights with  compatibility.

Use the shortcuts indicated above to set the desired Phase for each light.

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

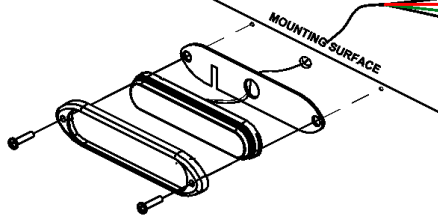
RESET TO FACTORY DEFAULTS

To reset this light to its factory default settings, proceed as follows:

- Connect the GREEN wire to GROUND.
- Hold the WHITE wire to POWER until the light flashes three times.
- Release the GREEN wire, then after 1 second release the WHITE wire.



Cig Plug Models : +12VDC only



WHITE: Synchronization wire – connect to other lights after programming or cut short.

RED: Power - Connect to +12/24VDC through your switch and a 5A fuse.

GREEN: Programming - Touch & Release to Ground. (for details see above)

BLACK: Ground - Connect to the negative terminal of the battery or a good chassis ground.

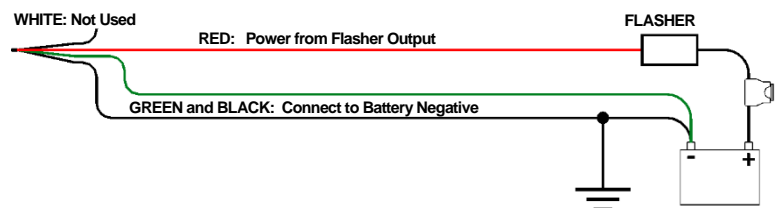
Pattern	Pattern Type	Pattern Description
1	K	Flicker
2	L	Fast Doubleflash †
3	M	Tripleflash †
4	N/A	Pseudo Flicker
5	N/A	Pseudo Random
6	F	Quadflash †
7	G	Quadflash w/Post-Pop
8	H	Singleflash †
9	I	Doubleflash
10	A34	One At A Time Post Pop
11	A35	Flicker Slow Steady
12	A36	Flicker Fast Steady
13	N/A	Steady w/Off Flash
N/A	N/A	Steady Dummy Head

† = SAE Compliant Patterns when properly configured

STEADY DUMMY HEAD MODE - EXTERNAL FLASHER MODE

To utilize this light with an external flasher, connect the light in "Dummy Head" mode by keeping the tying the GREEN wire to the BLACK wire both connected to GROUND. The RED wire should be connected to the output from your external flasher.

NOTE: Heads **MUST** be flashed at 50% or lower total on time. They can be pulse width modulated as low as 15% and at 100hz or higher.



LIMITED WARRANTY

Grote Industries, Inc. ("Grote") warrants its products to be free from defects in material and workmanship under normal use and service as set forth in this Limited Warranty. THIS LIMITED WARRANTY is the final, complete and exclusive expression of warranty to the purchaser and cannot be modified except in writing signed by an authorized officer of Grote.

LED FIVE-YEAR LIMITED WARRANTY

Subject to the following conditions, Grote warrants to the original purchaser only (and not to anyone else) of each new LED product made by Grote that any part thereof which proves to be defective in material or workmanship within five years from the date of manufacture by Grote will, at Grote's option, be repaired or replaced without charge upon return to Grote of the defective product, provided any defect in the product is brought to the attention of Grote within the warranty period, who alone will be authorized to furnish or arrange for repairs or replacements within the terms of this limited warranty.

The above limited warranty does not apply, and no warranty, either expressed or implied, shall be applicable (a) to damage resulting from accident, alteration, misuse or abuse; (b) if the product is not installed, operated and maintained according to procedures recommended by Grote; (c) if the serial number, date code, or other identifying marks affixed to the product by Grote are removed, obliterated or defaced. In no case shall the warranty be extended to defects in materials, components (which includes but not limited to bulbs), or services furnished by third parties nor to the installation of the product performed by third parties, except those performed by or on behalf of Grote authorized distributors. If any repairs are made, or any other parts are replaced during the warranty period, by any distributor other than a Grote distributor, in accordance with service manuals, parts, accessories, or attachments other than authorized by Grote for use in Grote's products, the purchaser shall pay for such repairs or parts without recourse against Grote, and Grote shall be relieved of responsibility for fulfillment of the warranty with respect to parts or components of all repairs, alterations, or replacements so made.

In consideration of the express warranty and other terms herein contained, the purchaser agrees that purchaser's exclusive remedy and Grote's sole liability on any claim, whether in tort, contract or warranty, shall be limited to, at Grote's option, repair or replacement of a defective product. No other remedy (including but not limited to incidental or consequential damages for the lost profits, lost sales, injury to person or property, or any other incidental loss or damages) shall be available to purchaser. In no event, and for no cause whatsoever, including any breach or default by Grote, shall Grote have any monetary liability to purchaser in excess of the price paid by purchaser for the product in question.

This limited warranty is expressly in lieu of all other expressed or implied warranties, including the implied warranty of merchantability and the implied warranty of fitness for a particular purpose, and of all other obligations or liabilities on the part of Grote. No dealer, distributor or other representative of the company is authorized to change this warranty in any way or to grant any other warranty.

Any affirmation of fact or promise made by Grote shall not be deemed to create an expressed warranty that the products shall conform to the affirmation or promise. Any description of the product is for the sole purpose of identifying such product and shall not be deemed to create an express warranty that the product shall conform to the description. Any sample or product model is for illustrative purposes only and shall not be deemed to create an express warranty that the whole of the products shall conform to the sample or model. Further, no affirmation or promise, or description, sample or model shall be deemed a part of the basis of the bargain between Grote and the purchaser.

Grote assumes no responsibility that title conveyed to the purchaser is good or the transfer of title to the products is rightful, or that the products shall be delivered free from any security interest or other lien or encumbrance of any third party, or free from any rightful claim of any third party by way of infringement or otherwise.

NON-TRANSFERABLE

This warranty shall extend only to the original purchaser and is non-transferable.

END USER RESPONSIBILITY:

Each user bears full responsibility for making their own determination as to the suitability of Grote materials, products, recommendations, or advice for their own particular use. Each user is ultimately responsible to identify and perform tests and analyses necessary to assure that its finished parts incorporating Grote products will be safe and suitable for use under end-user conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of this Limited Warranty or this Disclaimer, unless any such modification is specifically agreed to in writing signed by a Grote Industries Representative.

WARRANTY RETURN AND REPLACEMENT INSTRUCTIONS

To be eligible for limited warranty consideration, either contact your Grote sales representative or call Grote customer service at 800.628.0809 (In Canada call 800.268.5612). Upon issuance of a returned goods authorization number, return the failed product, freight prepaid to: Warranty at Grote Industries, Inc., 2600 Lanier Drive, Madison, Indiana 47250. In Canada, return product, freight prepaid to: Warranty at Grote Industries Co., 230 Travail Road, Markham, Ontario L3S 3J1. Any product covered under the terms of the respective limited warranty will be replaced directly to the original consumer / purchaser only. Items received by Grote will not be returned unless accompanied by a specific written request. The product to be returned will be those items not covered under the warranty and will be returned to sender freight collect.

CONSUMER RIGHTS IN VARIOUS STATES

This warranty gives you specific legal rights, and you may have other rights that vary from state to state. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. Further, some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.



United States: 2600 Lanier Drive • Madison, Indiana 47250 • Phone: 800-628-0809 / 812-273-1296 • Fax: 812-265-8440
Canada: 230 Travail Road • Markham, Ontario L3S 3J1 • Phone: 800-268-5612 / 905-209-9744 • Fax: 800-267-9024

