

# AF106AD AUXILIARY LIGHT USER MANUAL

Thank you for choosing CyronMotor products! Please read instructions completely before starting installation.

## TOOLS AND ACCESSORIES NEEDED

Some basic metric tools are included. More metric tools maybe needed. Installing auxiliary lights on motorcycles and vehicles has many possibilities. Tools needed are dependent on complexity of the job. Although several types of hardware are included, in some cases additional hardware such as SAE screws could be helpful in the installation process.



**CAUTION: HOT SURFACES. DO NOT TOUCH THE METAL SURFACES OF THE HEADLIGHT. THEY CAN BE EXTREMELY HOT.**

**CAUTION:** Local laws vary regarding additional light and/or utilizing auxiliary lights. Make yourself familiar with such laws before adding or deciding on how to utilize such lights.

## INSTRUCTIONS

AF106AD has a precision rectangular beam pattern which makes it well suited for on-road applications as well as off road. It can be used as an added auxiliary light to an existing low beam setup on your ride. Just as easily by aligning the light upward it can be utilized as an auxiliary high beam. If space is available, two AF106AD can be installed, one for low beam and other for high beam.

## INSTALLATION

Wiring AF106A will depend on your riding preferences and what aspect of night vision you are intending to improve.

**Option A.** Connection to an ignition-controlled wire: This will turn on the lights every time ignition is turned on. Use a 5A inline fuse if the supply wire is not fused.

**Option B.** Connection to headlight: Connected to low beam or high beam will turn on AF106A at the same time as the headlight. Whether you choose low beam or high beam depends on which needs more improvement in your application. Setting up one AF106A for low beam and one for high beam is ideal.

**IMPORTANT:** Approximately 2A power draw will be added to headlight wiring. Normally this is acceptable by most powersports and automotive applications. As a first step in upgrading your lighting CyronMotor suggests converting your headlight low/high beam bulbs to a low power draw LED technology. This will leave ample power for addition of auxiliary lights such as AF106A.

**Option C.** Connection to fog/passing lights. This option gives control to turn on/off the auxiliary lights along with fog/passing lamps. Local laws vary on usage of fog lights.

1. Choose the mounting location for the lights. Slider brackets and "L" brackets are included. If they do not quite fit your application please ask your dealer or visit [CyronMotor.com](http://CyronMotor.com) for other mounting bracket styles.
2. Connect the wires before mounting the light in place. Account for moving parts such as handlebar to determine the length of wire to reach the lights. If needed extend the wires with 16AWG wires. Do not secure the wires yet. Leave some slack in the wires.

3. Secure the light in place. Do not tighten the adjustment screws until the lights have been aligned.
4. Secure the wires with zip ties. If mounted to lower forks or other moving parts avoid leaving too much loose wires which could fray or get caught to other objects. Leave just enough to clear the max extension of the moving parts.
5. Align the light. For proper operation it is vital to check the aim of the light. Use the diagram below as a starting guide.

NOTE: For low beam applications the goal is to keep the light on the road as far forward as possible without disturbing the oncoming traffic.

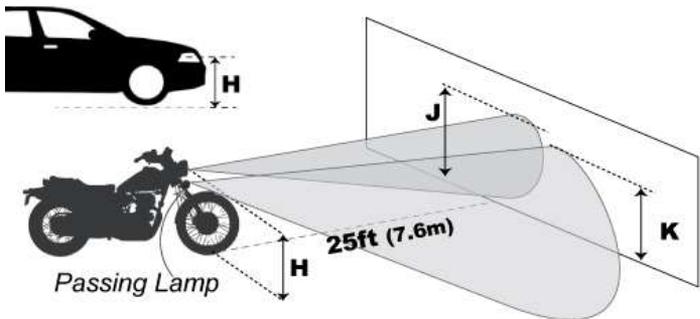
During testing make sure:

- a. The vehicle is on level surface
  - b. There are no excessive loads in the vehicle affecting its leveling
  - c. For motorcycles it is a good idea to align with the rider on the bike
  - d. After alignment do a road test to assure proper visibility has been achieved. Further adjustment may be necessary to get the optimum performance.
6. Tighten all the screws.

HINT: Check the alignment of the light again after a few hours on the road. To facilitate mark the position of the light beam on garage wall after the initial alignment. Compare at a later point to make sure the lights have remained aligned.



### HEADLIGHT AND PASSING LAMP AIMING RECOMMENDATIONS BY CYRON MOTOR



H = Ground to the center of the headlight

$$J = H \times 0.9$$

$$H \times 0.6 < K < J$$

If light beams do not have a well defined beam cut-off keep the hot spot of the beam below J and K. Ensuring undisturbed visibility of other drivers is vital to your safety. Drive/Ride Safe!

## **WARRANTY**

Cyron warrants this product against any defects in materials or workmanship for a period of 1 year from the date of purchase. The warranty covers normal usage as intended by the factory and does not cover misuse, abuse, accidents, or damages caused due to the acts of God. Proof of purchase is required.

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Some LED products are not DOT/SAE approved. Although efforts have been made to maximize road visibility and safety, all risks are sole responsibility of the user. For warranty claims please visit [cyronmotor.com](http://cyronmotor.com) Support link or email [warranty@cyron.com](mailto:warranty@cyron.com). Thank you.

## **Other quality automotive lighting accessories from CyronMotor**

<u>Part Number</u>	<u>Description/Application</u>
ABxxD	LED bulb Standard Mini, Fitment with ease
ABxxE	LED bulb ELITE-II, all models, Cars, Trucks, Bikes
ABIG4.5-A6K	Driving Lamp, Integrated LED, 4.5" Harley fog lamp
ABIG7-RNG	Mounting trim ring, 7" integrated, Chrome
ABIG7-RNG-B	Mounting trim ring, 7" integrated, Black
ABIGC3A	Adapter H9/11 to H4, Roadking 2016+
AC1156 /57A	2" Harley turn signal LED insert, avail in Red, Amber, White Halo
AC1156 /57PF	Pancake Harley turn signal LED insert, avail in Red, Amber, White Halo
ACT1156/7	Torch 2" Harley turn signal LED insert, avail in Red, Amber, White or Gold Halo
AB1157H2	Light bulb Ultra High Power 8W LED, single and dual circuits
AB1157E	Light bulb High Power 6W LED, single and dual circuits
ABFT100-xx	Canbus and EMI noise filter for LED headlights, H4/H7/H9 and more
RC3A12	Tri-Zone accent lighting remote
MLKP7CZ	Accent light kit Platinum, Pro grade for mid size cruisers, avail in all 6 solid colors
MLKT10C2FZ	Accent light kit Titanium, Pro grade for large cruisers, avail in all 6 solid colors

**Ensuring undisturbed visibility of other drivers is vital to your safety.  
Drive & Ride Safe!**

# **VISIBILITY - SAFETY - STYLE**

## SPECIFICATIONS

### HEADLIGHT FOGGING UP?

Fogging or condensation in the headlight is a temporary condition and does not cause a problem with normal operation of your headlight. This condition is NOT a defect. In fact our lights are designed to allow moisture to slowly escape the housing, therefore minimizing reoccurrence of condensation. The evaporation process may take some time.

### WHY IS THIS HAPPENING?

Often times during the manufacturing process polymers as resins absorb small amounts of moisture. Once the light heats up the moisture is released and shows up as condensation on the lens which is the coolest part of the light.

### WHY STOCK LIGHTS NEVER DID THIS?

LEDs do not run as hot as halogen or HIDs lamps so the moisture takes longer to evaporate.

### SIGNS OF FUTURE DAMAGE?

If large droplets or pooling of water is present then this is a sign of damage and can lead to a system failure. If a pool of liquid water is clearly visible and was NOT the result of physical abuse and or misuse please contact your local dealer or Cyron tech support.

Operating Voltage	10-VDC
Socket	D2 / Male+Female
Peak LED Power, Watts	40W
Nominal Power, High Beam	22W
Nominal Amp Draw	1.7A
No EMI Noise	Yes, E9 Approved

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