

Installation Manual Axera / Axera CL



Dear customer,

Thank you for placing your trust in us by purchasing this product. Please read these instructions carefully and completely before deciding whether you would like to do the installation yourself or have it done by a specialist.

Legal Note: Axera / Axera CL

All Axera are permitted by the ECE regulation for motorcycles licensed for road use by EU law as documented on the certification number embossed on each lens. This means that you may use two Axera units instead of the original indicator lights without any additional entries in your motorcycle documents or presentation to a motorcycle inspection organization in Germany, or equivalent in other EU member states. **You do not need to carry any special documentation. This applies to all motorcycles licensed under EU law and the corresponding lights.**

WARNINGS

ATTENTION! The warranty will not apply if the Axera has not been correctly installed or connected to the electrical supply on your motorcycle. Do not carry out the installation unless you are qualified to do so; otherwise, leave the installation and connection work for your Axera to a qualified repair shop. The warranty does not apply to damage due to wrong connection or excess voltage (such as due to a defective alternator regulator).

WARNINGS

ATTENTION! Improper mechanical installation or orientation of your Axera lights may invalidate your motorcycle's roadworthiness and insurance protection, or even lead to accidents. Before every usage of your motorcycle, check whether the indicators are correctly mounted and fully functional.

ATTENTION! Your Axera lights may heat up during use. Contact with bare skin or heat-sensitive objects may lead to damage or injury.

ATTENTION! There are motorcycles with voltage peaks, that damage Kellermann products. These are: Older single cylinder KTM, Husaberg and Husqvarna, Yamaha Raptor Quad and vehicles of Skyteam, MZ and Simson and generally older vehicles. Also other motorcycles with non factory electrical system and e.g. retrofitted ignition/lighting systems e.g. from Vape/Powerdynamo and others. The problem can be solved easily by installing suppressor diodes. Please contact our support team (info@kellermann-online.com) if you are unsure whether your motorcycle belongs to this group. We point out that the warranty is void if operating with over-voltage.

WARNINGS

CLEANING ADVICE! Your new Kellermann products are premium-quality products. In order to enjoy them long time and maintain the warranty we recommend not to use any cleansers with alkaline/acid and/or grinding substances or steel wool. We also advice not to use steam cleaners.

INSTALLATION

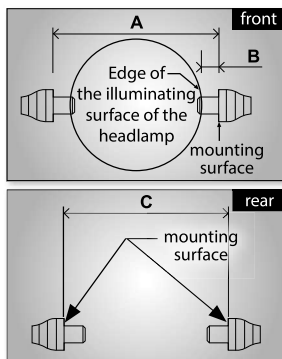
ATTENTION! Make sure that your motorcycle is standing firmly before you start work, as a fall may lead to damage to the motorcycle or injury to you or others.

Dismantle the original indicators. Mount the Axera in place of the original indicators, or use a max. 8.5 mm diameter hole and fasten the Axera at **8 Nm** with the M8 nut supplied. Mount the Axera in such a way that the beams run horizontally in your motorcycle's direction of travel.

Alignment is important to safety in traffic and essential to your motorcycle's roadworthiness, as a motorcycle with incorrectly aligned lights is easy to overlook on the road.

INSTALLATION

Make sure that you keep the following measures in selecting your fastening point:



Axera / Axera CL | front | **A** = 232 mm

Axera | front | **B** = 36 mm

Axera CL | front | **B** = 71 mm

Axera | rear | **C** = 172 mm

Refer to the ECE-R 48/ECE-R 53 guideline available at <https://unece.org/> for further mounting regulations.

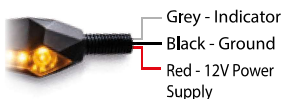
ELECTRICAL CONNECTION

Cut the wires between the original indicators and the wire connectors at a suitable point. By doing this the wiring loom stays untouched.

Connect your Axera as follows:

- Connect the positive of the left (right) turn signal to the grey wire of the left (right) Axera.
- Connect the black ground wire of the Axera to battery ground.
- Connect the red 12V supply cable of the Axera to the ignition-switched, fused battery plus.

If it is not possible or desired to connect the red supply cable to an ignition-controlled battery plus, we recommend an i.SED Performance, which you can obtain from www.kellermann-online.com, to suppress the system-related idle current.



Lay the cables in a way, that they are protected from splash water and fasten them, e.g. by using zip ties. Now test the function of the Axera.

This completes the installation.

ELECTRICAL CONNECTION

Cut the wires between the original indicators and the wire connectors at a suitable point. By doing this the wiring loom stays untouched.

Connect your Axera CL as follows:

- Connect the positive of the left (right) turn signal to the grey wire of the left (right) Axera CL.
- Connect the grey-white cable of the Axera CL to an ignition-switched positive lead at a suitable point.
- Connect the black ground wire of the Axera CL to battery ground.
- Connect the red 12V supply cable of the Axera CL to the ignition-switched, fused battery plus.

If it is not possible or desired to connect the red supply cable to an ignition-controlled battery plus, we recommend an i.SED Performance, which you can obtain from www.kellermann-online.com, to suppress the system-related idle current.



Lay the cables in a way, that they are protected from splash water and fasten them, e.g. by using zip ties. Now test the function of the Axera CL.

This completes the installation.

ELECTRICAL CONNECTION

To connect the wires of the indicator to the wires of the original connector there are crimp connectors and shrink tubings included in the delivery. First push one of the shrink-on tubes over one of the cables you want to connect and remove five millimeter of insulation on the end of each cable. Then push both bare ends into a crimp connector and crimp it with an appropriate tool. Then pull the shrink-on tube over the connection and heat it up equally until it fits tight over the complete length of the connector.

This type of connection is technically permanent. To create a non-permanent connection, we recommend Posilock wire connectors (not included), which are available for purchase from our website at www.kellermann-online.com.

INDICATOR FLASH RATE

The flashing frequency can change when converting the original indicators. The installation of a load-independent flasher relay or one of our i-products can provide a remedy.

ATTENTION! The application of the described measure may interrupt correct functionality, in the case of a failure causing one of the indicator lights to increase in flash frequency in order to alert the driver of such a failure. Before each usage of the vehicle, check the functionality of the indicator lights.

We are happy to answer any questions you may have with regards to converting your indicators, we are certain we can help you.

Our team is constantly working on new, improved solutions for all models and vehicles. If you are not sure which electronic equipment you require, please contact us via www.kellermann-online.com or call us: **+49 (0)2405 / 892405 - 0**.

The Kellermann Axera is equipped with the tried-and-trusted **Longlife Protection Guard®** circuit, which ensures extremely long life with LED technology. It is not necessary to replace the illuminant and, due to the UNECE regulations, it would not be allowed either.



Axera/ Axera DF / Axera CL

ONLINE SHOP at
www.kellermann-online.com



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