



Jetstream® / Jetstream® DF



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: Jetstream® / Jetstream® DF

All Jetstream® 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 Jetstream® 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 Jetstream® 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 Jetstream® 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).

ATTENTION! Improper mechanical installation or orientation of your Jetstream® 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.

WARNINGS

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

ATTENTION! Each Jetstream® is fitted with a vibration-absorbing, elastic fastening arm (silent rubber adapter). This wearing part is designed to protect your Jetstream® from damage at slight deflections of up to 15°. The adaptor will break on larger deflections, such as from a crash or vandalism, to prevent breakage to your valuable indicator; the rubber will overstretch and tear, or the inside will sustain so much damage that it may fail at a later time.

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.

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.

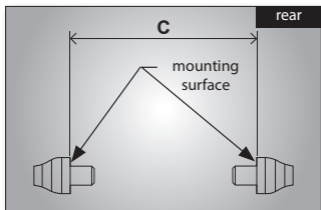
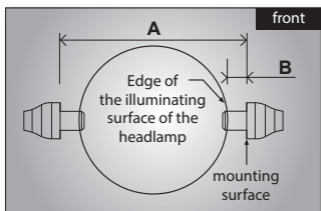
INSTALLATION

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 Jetstream® in place of the original indicators, or drill a max. 8.5 mm diameter hole and fasten the Jetstream® at 8 Nm with the self-locking M8 nut supplied. Make sure that the surface under your Jetstream® where the wires will emerge is protected from splash water. Mount the Jetstream® 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.

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



Jetstream® | front | **A** = 194 mm

Jetstream® | front | **B** = 17 mm

Jetstream® | rear | **C** = 134 mm

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

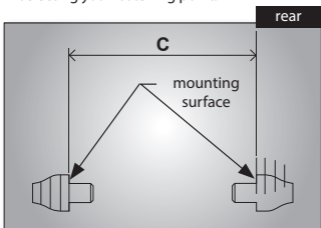
INSTALLATION

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, rear and brake light. Mount the Jetstream® DF in place of the original indicators, or drill a max. 8.5 mm diameter hole and fasten the Jetstream® DF at 8 Nm with the self-locking M8 nut supplied. Make sure that the surface under your Jetstream® DF where the wires will emerge is protected from splash water. Mount the Jetstream® DF 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.

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



Jetstream® DF | rear | **C** = 116 mm

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

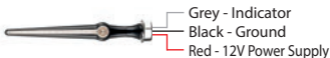
ELECTRICAL CONNECTION

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 Jetstream® as follows:

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

The Jetstream® is now connected. To suppress the system-related idle current, we recommend an ignition-controlled i.SED module, which you can order from www.kellermann-online.com.



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.

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 Jetstream®.

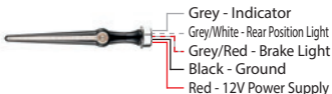
This completes the installation.

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 Jetstream® DF as follows:

- Connect the positive of the left (right) turn signal to the grey wire of the left (right) Jetstream® DF.
- Connect the severed supply line of the rear light with the grey-white cables of both Jetstream® DF.
- Connect severed supply line of the brake light with the grey-red cables of both Jetstream® DF.
- Connect the black ground wire of the Jetstream® DF to battery ground.
- Connect the red 12V supply cable of the Jetstream® DF to the ignition-switched battery plus.

The Jetstream® DF is now connected. To suppress the system-related idle current, we recommend an ignition-controlled i.SED module, which you can order from www.kellermann-online.com.



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.

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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 Jetstream® DF.

This completes the installation.

INDICATOR FLASH RATE

The flashing frequency can change when converting the original indicators. The installation of a load-independent flasher relay can solve the problem. If the installation is not possible or not favored, then parallel connected power resistors (i.LOAD) will be an option. Only a few vehicles need special solutions, which we offer as i.SED, i.BOS and i.LASH products.

ATTENTION! The power resistors will become very hot after longterm usage of the indicator lights. Make sure that no components are damaged by this heat.

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.

If you contact us, we will be happy to assist you.

To date, we have been able to help every customer.

Our team is constantly working on new, improved solutions for all models and motorcycles. If you are not sure which electronic equipment you require, please contact us. Refer to our homepage at www.kellermann-online.com for additional information and our online shop with a full range of spare parts and accessories and a download area. If you have any suggestions or questions, please do not hesitate to contact us by email (info@kellermann-online.com) or call us: +49 (0)241/93 80 8-0. We are happy to assist you.

The Kellermann Jetstream® is equipped with the tried-and-trusted **Long Life Protection Guard®** circuit, which ensures extremely long life with LED technology. It is not necessary to replace the illu-
the law:




Jetstream®



Jetstream® DF

ONLINE SHOP at www.kellermann-online.com

 Kellermann GmbH

 [kellermann_company](https://www.instagram.com/kellermann_company)

