

**BEROTEC**  
*Motorrad*

# 12V Anschluss für geschaltete Verbraucher

12V connection for switched consumers

Connexion 12V pour accessoires commutés

Connessione a 12 V per accessori commutati

Conexión de 12 V para accesorios conmutados



# Connection switched 12V line

This document is intended to help you find a suitable connection option on the vehicle where electronic devices can be operated and switched on and off with the ignition of the motorcycle.

Common designations for the positive terminal switched with the ignition are:

- Ignition plus
- Switching plus
- Terminal 15
- Auxiliary consumer connection
- ACC2 [KTM / Husqvarna / GasGas]
- Special accessory plug (SZ plug) [BMW]

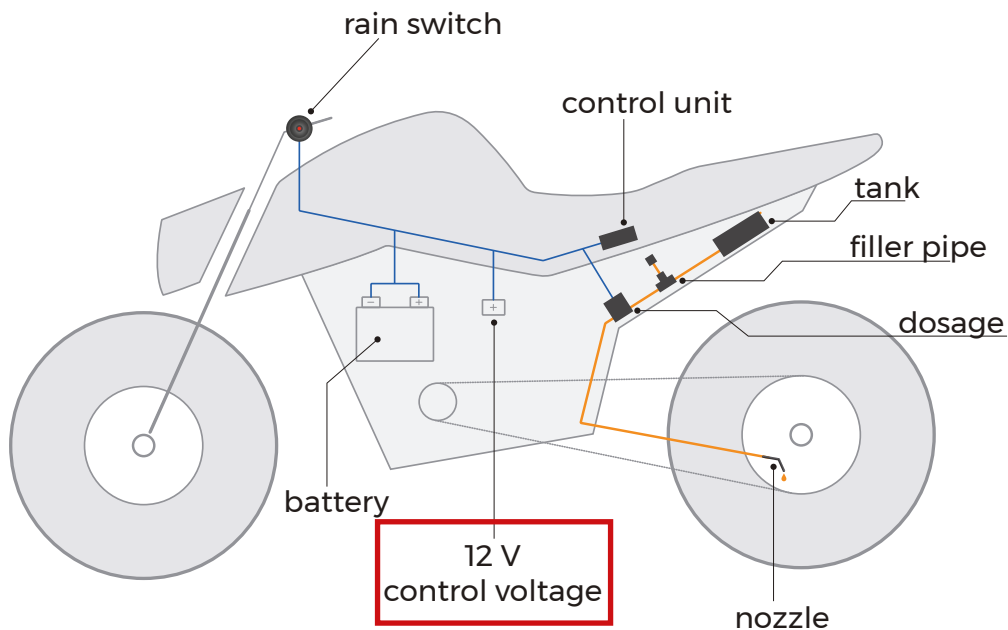
## **Note**

Work on the motorcycle's electrical system may only be carried out with the power supply disconnected (battery disconnected). If not all electrical plug connections are correctly connected when the power supply is restored, this can lead to an error message or malfunction on the motorcycle.

Operating instructions status: 04/2024

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# Schematic structure



## Connection possibilities

The black and white control cable of the MOFESSOR chain oiler must be connected to such a switched 12V connection.

Various installation examples are listed below.

## *1. double flat plug / junction plug (pre-installed on the MOFESSOR)*

On many motorcycle models, ignition positive is connected to the horn. If the design allows this, the junction plug can simply be plugged into the horn together with the original cable. The correct cable can be determined with the aid of a voltage tester or by simple trial and error.

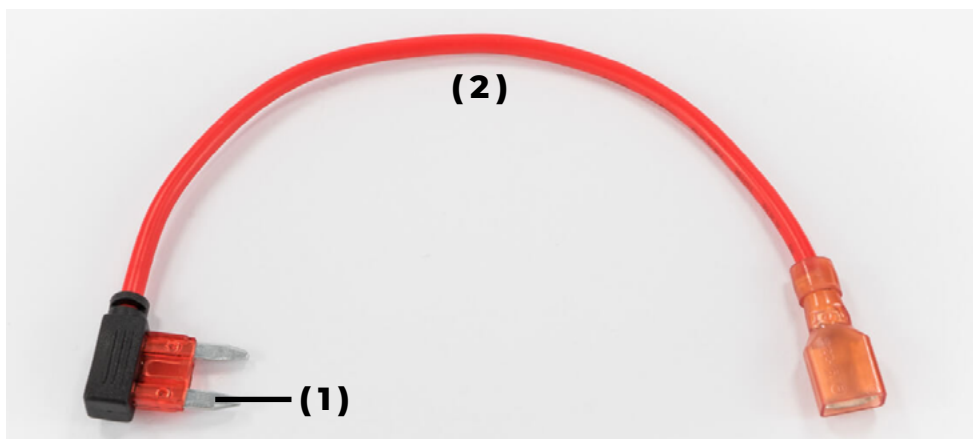
The vehicle electronics are not affected by this connection.



## 2. fuse branch

The fuse branch is exchanged for a fuse in the fuse box that is switched with the ignition. A choice of 5A/10A/15A/20A is available. Now the MOFESSOR's switching cable, for example, can also be connected. This has a current requirement of only 0.02A. This is negligible and does not lead to any problems/interventions in the vehicle electronics.

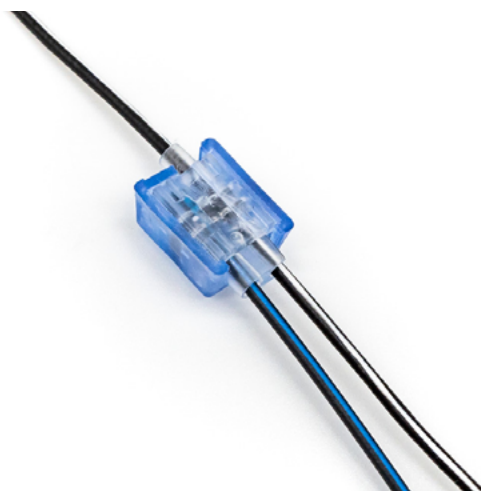
Pin (1) must be plugged into the live contact in the fuse box. The cable outlet (2) is then on the opposite side so that the current for the connected load must flow via the fuse.



### **3. PRESSLOK™ branch connector**

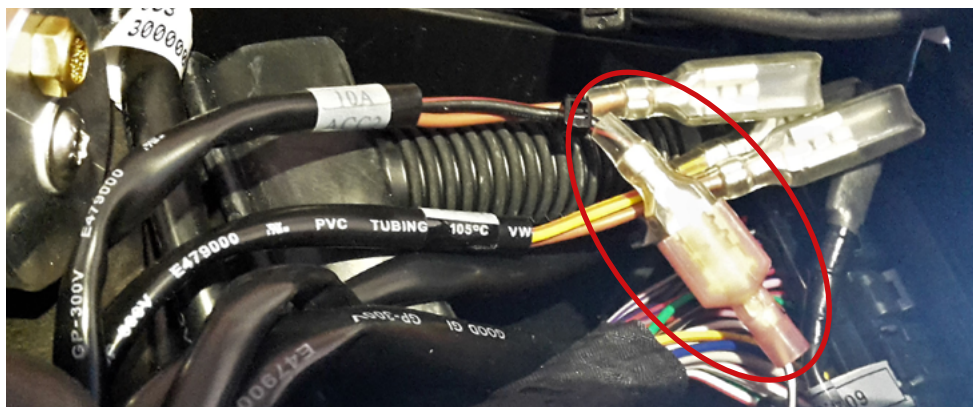
The branch connector can be used universally on all 12V cables connected to the ignition. Suitable are e.g. rear light, license plate light, horn, heated grips, socket, etc.

The branch connector is a self-tapping, insulated and moisture-resistant connector for 2 copper conductors, 26-19 AWG (0.4-0.9 mm) with a maximum outer insulation diameter of 2.08 mm. The connection is made by pressing the connector together, at the same time enclosing the contact point with a gel filling for self-insulation.



## 4. ACC2 connection [KTM / Husqvarna]

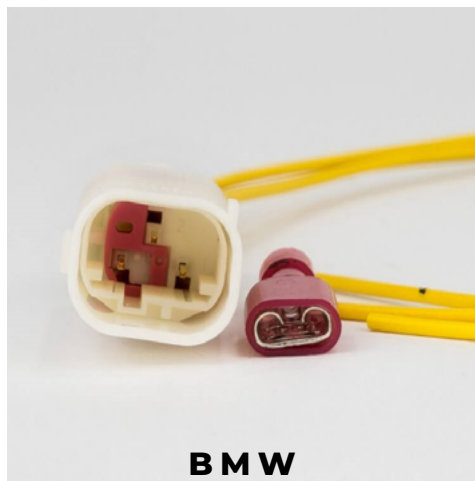
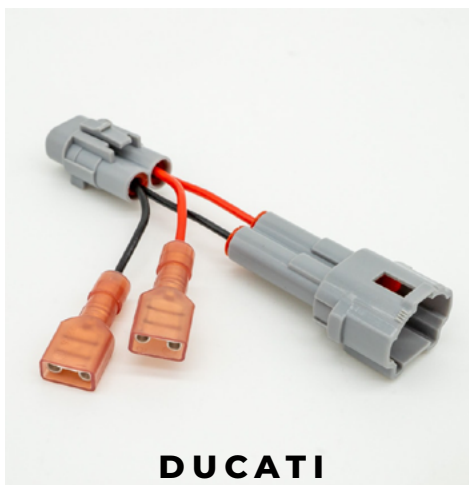
Connection is particularly easy on newer KTM and HUSQVARNA models. There are factory-prepared connections in the rear of the vehicle or behind the lamp mask. Labeled ACC2 (switched 12V) and ACC1 (continuous plus 12V). The connection to ACC2 can be made directly, the black/red cable is positive and the brown cable is earth. If the branch connector (from point 1) is used, there is even a free connection for other accessories. Any exposed contact surfaces should be additionally secured with insulating tape. The MOFESSOR can also be completely connected to these connections (Fig. 2). The ACC1/2 connections are already fused on the vehicle.





## 5. Model-specific plugs for auxiliary consumers

Many newer motorcycles have a factory-prepared free plug on the vehicle to connect accessories. Connecting with the appropriate plug creates a connection without any intervention in the vehicle wiring harness. **The plugs are generally not standardized and vary between manufacturers, models and model years.** BMW has provided the so-called „Cartool“ plug connection on most vehicles. A selection of plugs is available on our website.

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