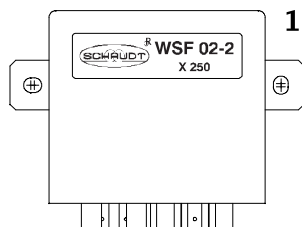


## Installation Instructions for WSF 02-2



### 1 Use and function

The WSF 02-2 motor controller is deployed to enable higher-powered windscreen wiper motors to be used on a Fiat chassis.

The Fiat controls with all their functions (available as standard) remain.

#### Modules

The motor controller includes a power control unit via a relay to enable the windscreen wiper motor.

#### Required control circuits

To be used, the motor controller must be connected to the vehicle-side control electronics of the standard windscreen wiper motor.

#### Function

The motor controller relays the switching commands for the low and high speeds from the vehicle-side control electronics to the windscreen wiper motor.

Interval control is realised by the vehicle-side control electronics.

#### Operation

The vehicle chassis controls available as standard are used for operation.

### 2 Layout

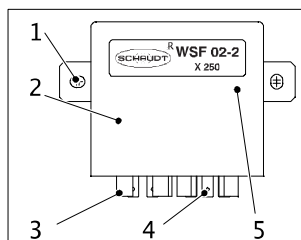


Fig. 1 WSF 02-2 motor controller

- 1 Attachment holes
- 2 Casing
- 3 ST2 connector (on motor)
- 4 ST1 connector (on controller)
- 5 Adhesive label

## Installation instructions for motor controller WSF 02-2

### 3 Mechanical installation

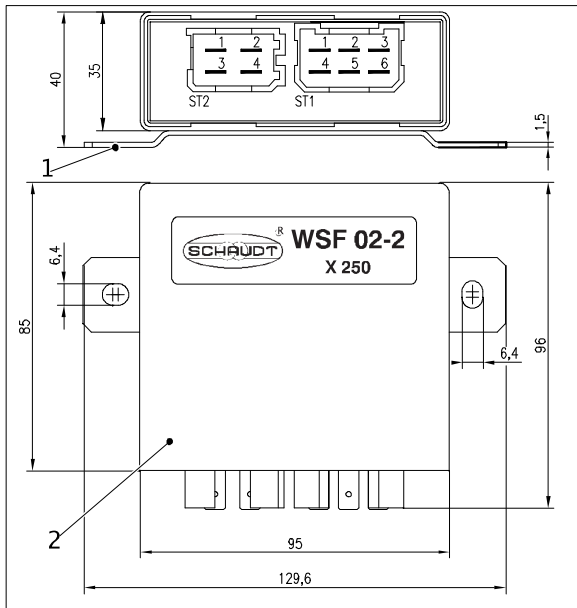


Fig. 2 Dimension diagram for WSF 02-2 motor controller (dimensions in mm)

- 1 Assembly bracket (zinc-plated)
- 2 PA housing

The device is intended as a wall-mounted device (with connections facing downwards) or as a floor-mounted device.

- Select a dry place for installation.
- Ensure a minimum clearance to the surrounding fixtures and fittings:
  - F Maintain a gap of at least 1 cm on all sides (except mounted side).
  - F Whilst in operation, the ambient temperature must not exceed  $+70^{\circ}\text{C}$ , measured 2.5 cm away from the sides of the device.
- Tightly screw on the motor controller at the attachment holes provided with the two screws.

### 4 Electrical connection



#### WARNING!

Reverse polarity can cause damage to the electrical system of the basic vehicle. Only carry out electrical connection work when the system is isolated from the power supply.

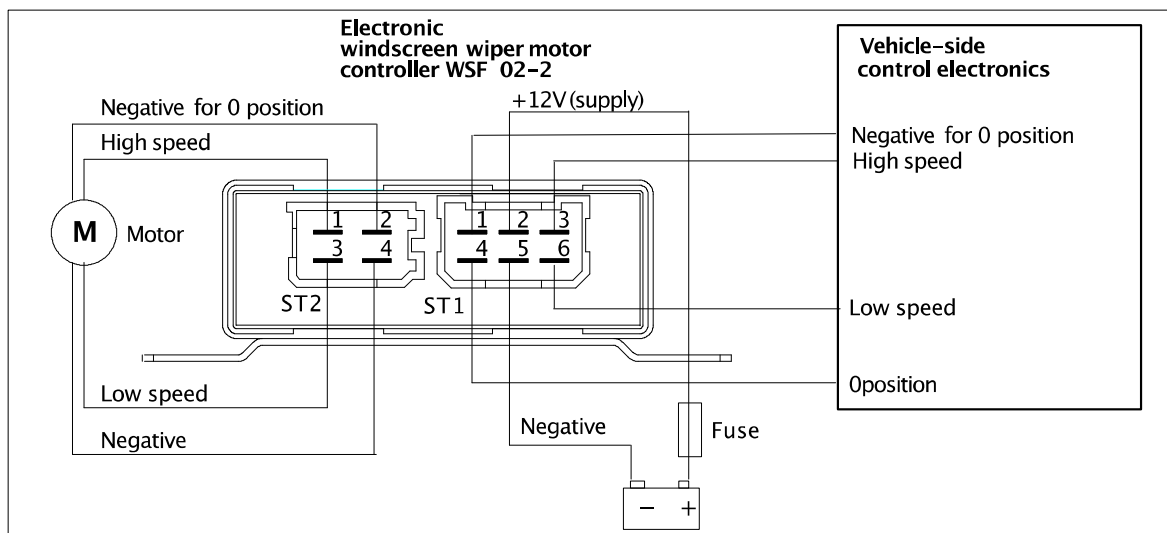


Fig. 3 Block diagram for WSF 02-2 connection



#### CAUTION!

The supply to the WSF 02-2 must be fused to ensure the line is protected (such as in the event of a short-circuit).

- Connection sequence** Connect the motor controller in the following order (also refer to the circuit diagram):
1. Electronics system of base vehicle
  2. Motor
  3. Supply

**Disconnection** Disconnect in the reverse order.



- γ Individual AMP 6.3 flat push-oncontacts can be used for the connection. Alternatively, suitable plug housings for ST1 and ST2 can be used.

## 5 Initial use

The motor controller is ready for use immediately after proper connection.

## 6 Technical details

### 6.1 Mechanical details

- Dimensions** 96 x 130 x 40 (D x W x H in mm) including connectors and assembly bracket
- Weight** 180 g
- Casing** Black plastic, assembly bracket: 1.5mm steel plate, zinc-plated

### 6.2 Electrical details

- Operating voltage** For 12V DC systems (10 to 15 V)
- Current consumption** Standby current 0 mA
- Maximum permitted motor current** 15 A

### 6.3 Environmental parameters

- Storage temperature**  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Operating temperature**  $-20^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$

## 7 Storage --packaging --transportation

Only transport and store the unit if the packing is suitable and ambient conditions are dry.

## Appendix

### A EC Declaration of Conformity



The CE mark on this device certifies conformity of the device to EU directives. The declaration of conformity is available for reference from the address below.



## Installation instructions for motor controller WSF 02-2

**Manufacturer** F Schaudt GmbH, Elektrotechnik & Apparatebau  
**Address** F Planckstraße 8  
88677 Markdorf  
Germany

### B Customer service

**Customer service address** Schaudt GmbH, Elektrotechnik & Apparatebau  
Planckstraße 8  
D-88677 Markdorf

Phone: +49 7544 9577-16  
Email: kundendienst@schaudt-gmbh.de  
Web: www.schaudt-gmbh.de

**Send in device** Before sending in a device to us for repair, please visit our website [www.schaudt-gmbh.de](http://www.schaudt-gmbh.de). Under "Service & Support", you are able to see a whole array of faults and their rectification in Frequently Asked Questions (FAQs).

If it is not possible here to locate and rectify the fault, the device can be sent in to us for repair. Please proceed as follows:

- Pre-register on the [www.schaudt-gmbh.de](http://www.schaudt-gmbh.de) website, see "Service & Support" --repair registration RMA (if possible)
- If registration is not possible over the Internet, please enclose the completed fault report, see Appendix C
- Send it to the addressee (free delivery)

### C Fault report

In the event of damage, please fill in the fault report and send it with the faulty device to the manufacturer.

Devicetype: \_\_\_\_\_  
Itemno.: \_\_\_\_\_  
Vehicle: Manufacturer: \_\_\_\_\_  
Model: \_\_\_\_\_  
Own installation? Yes - No -  
Upgrade? Yes - No -

Following fault has occurred (please tick):

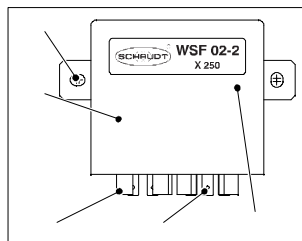
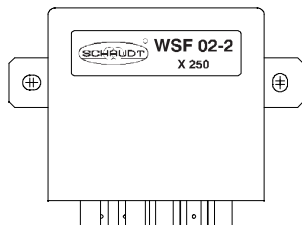
- Electrical consumers do not work --which?  
(please specify below)
- Switching on and off not possible
- Persistent fault
- Intermittent fault/loose contact

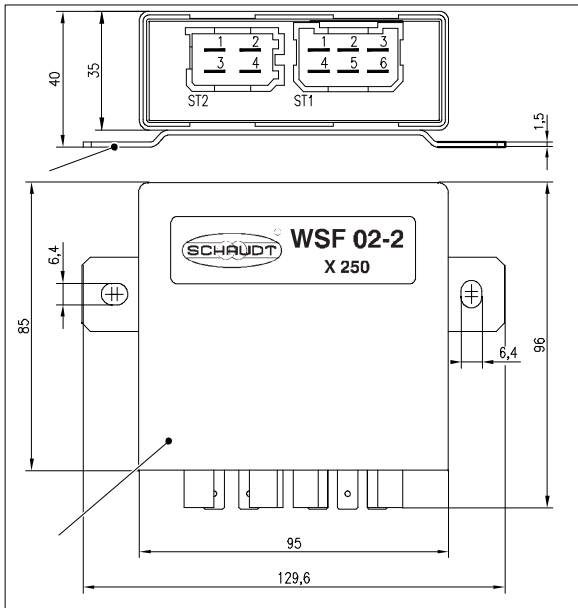
Other comments (use additional sheet if required):

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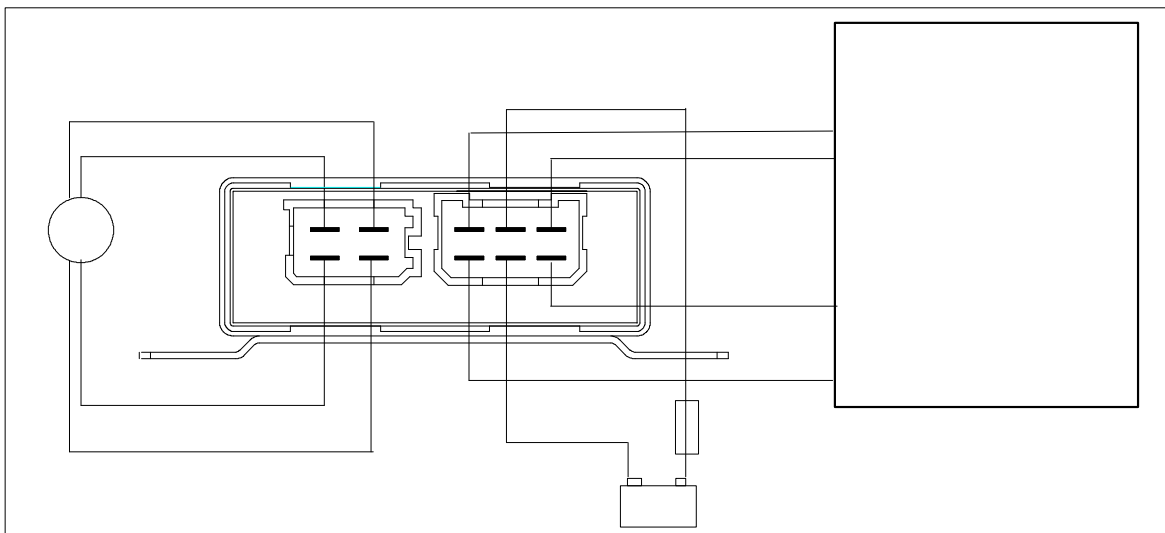
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