

FanControl FC-EFC

Technical Manual

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Unit description

FC-EFC v. 2.3 unit is an expander for FanControl units.

FC-EFC unit is designed for diesel VW vehicles: Caddy (2004-), Golf 5, Golf 6, Golf Plus, Jetta (2006-), Passat B6, Passat CC, Tiguan, Touaran, which have had the update of original Webasto heater software in 2010.

FC-EFC unit operates only in combination with actual FanControl-U2 and older FC for VAG

FC-EFC unit is to be installed in the following cases:

1. The vehicle is equipped with FanControl module unit but after the visit to official VW representative and Webasto software update, it is still possible to launch the climate control system via FanControl unit, while the heater is no longer controlled via FanControl module.
2. When installing FanControl-U2 unit and ensuring that the heater will be launched despite of Webasto software version that is subject to change when routine maintenance is carried out by the official VW representative.

Unit connection

The unit is connected into the breakage of CAN bus of the vehicle in the proximity of Webasto heater. No original units, sensors etc. are to be located in between FC-EFC connection area and Webasto heater.

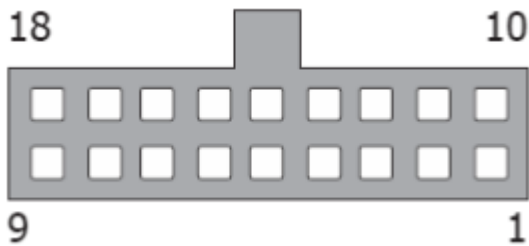
Wires assignment in the vehicle:

- CAN-L – orange with brown stripe.
- CAN-H – orange with violet stripe.

CAN 1 and CAN 2 wire pairs are designed for connecting the unit to CAN bus: one of pairs is connected to the bus from Webasto heater's side, while the other is connected from the vehicle's side. It does not

matter which branch is to be connected to the heater, the main point is not to intermix CAN-H and CAN-L wires.

When installing FC-EFC, it is unnecessary to connect the 18th output of FanControl-U2 unit (original heater control digital bus).



Pic.1. Numeration of contacts in the port from the wiring viewpoint.

Table 1. Unit port outputs assignment.

No	Wire color	Type	Assignment
1	Black	Ground	Ground
2	Brown	CAN 2	CAN-L vehicle data bus
3	Brown	CAN 1	CAN-L vehicle data bus
4	-	-	-
5	-	-	-
6	-	-	-
7	-	-	-
8	-	-	-
9	-	-	-
10	Red	Power supply	+12V unit power supply
11	Brown/red	CAN 2	CAN-H vehicle data bus
12	Brown/red	CAN 1	CAN-H vehicle data bus
13	-	-	-
14	-	-	-
15	-	-	-
16	-	-	-
17	-	-	-
18	-	-	-

Table 2. Technical data and operational conditions.

Characteristic	Value
Power supply voltage, V	9 ... 15
Maximum useful current in operation mode, mA	200
Maximum useful current in standby mode, mA	1,5
Temperature, °C	-40 ... + 85
Maximum relative air humidity, %	95

Table 3. Standard delivery kit

Item	Qty., pcs.
Central unit	1
Cable harness with port	1
Technical Manual	1
Packaging	1

Product warranty is provided for 1 year since the moment of the sale if all the installation recommendations have been followed. In case of warranty case please contact to the company which sold this product to you.

Distributor _____ Date of sale _____