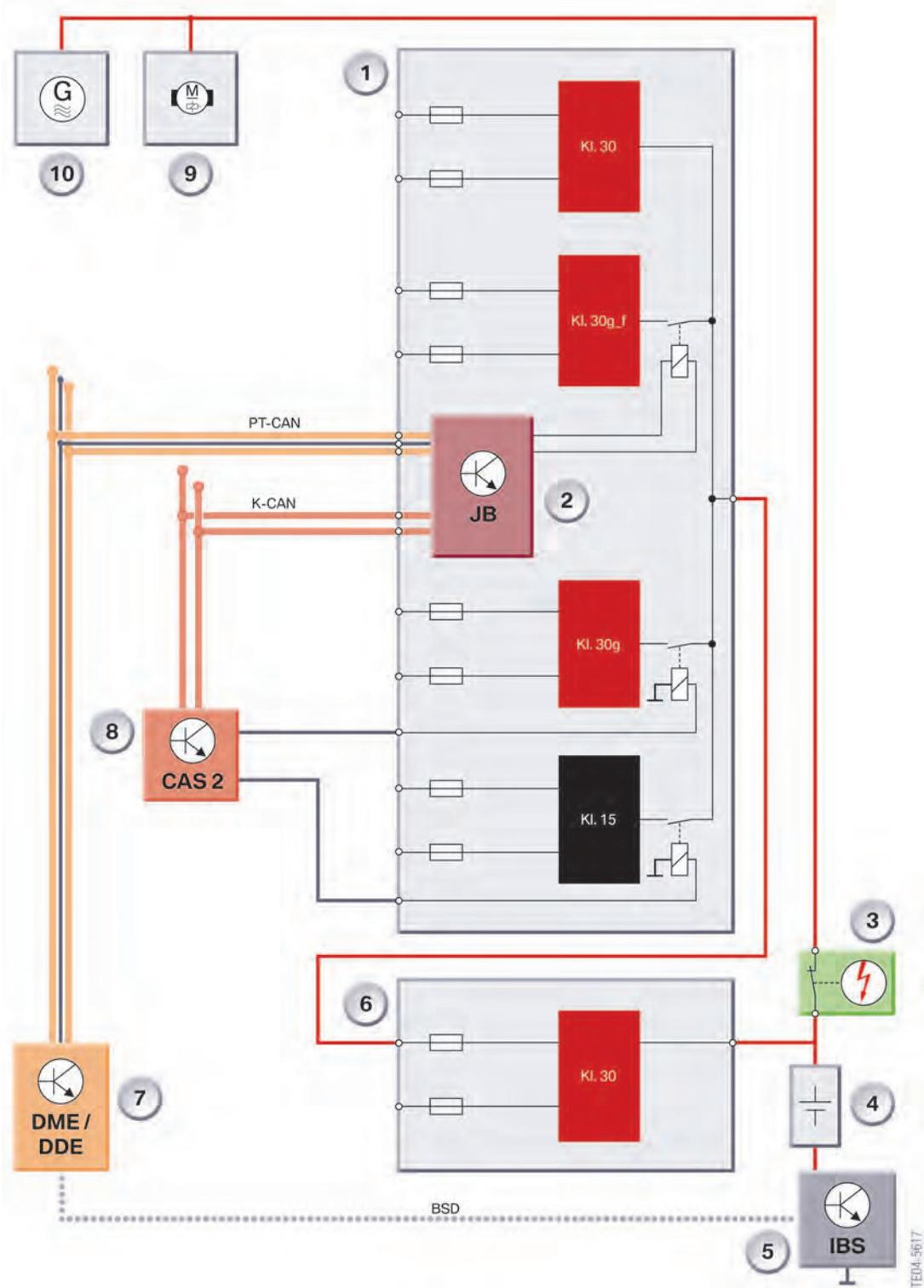


E87 block diagram



Index	Explanation	Index	Explanation
1	Front power distribution box	8	CAS (Car Access System)
2	Junction box	9	Starter
3	Safety battery terminal	10	Alternator
4	Battery	Kl. 30	Continuous positive
5	IBS (Intelligent Battery Sensor)	Kl. 30g_f	Switched positive, fault-dependent
6	Rear power distribution box	Kl. 30g	Switched positive, time-dependent
7	DME/DDE (Digital Motor Electronics/Digital Diesel Electronics)	Kl. 15	Ignition

Junction box

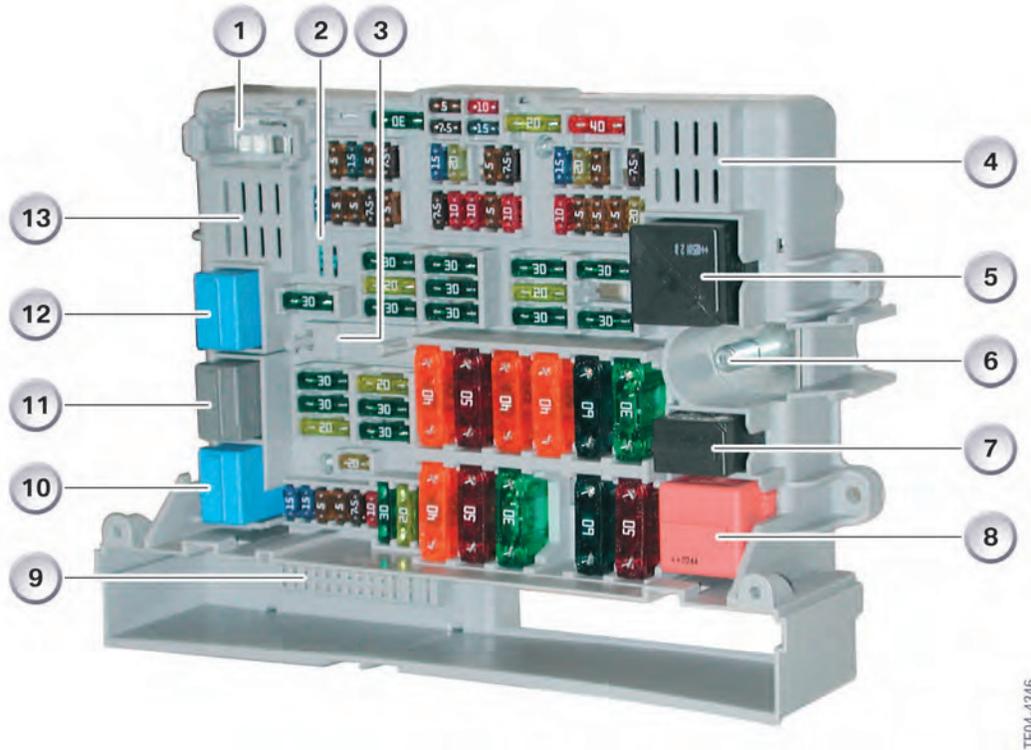
Installation location, junction box



10 - Installation location, junction box

In the E87 the junction box is installed behind the glovebox beneath the instrument panel.

Junction box, electric part



11 - Junction box, electric part

Index	Explanation
1	Wiring harness connector
2	Double relay for electric fuel pump/fanfare horn (M47TU2 fanfare horn only) is mounted on the PCB in the housing
3	Term. 30g_f relay (only installed in connection with corresponding equipment) is mounted on the PCB in the housing
4	Term. 15 relay is mounted on the PCB in the housing
5	Term. 30g relay
6	Power supply
7	Relay for windscreen washer system
8	Relay for secondary air pump
9	Internal interface, junction box control unit
10	Relay for rear window wiper
11	Relay for heated rear window
12	Relay for wiper stage 1
13	Relay for wiper stage 2 is mounted on the PCB in the housing

The PCBs on the inside of the junction box are equipped with different PCBs corresponding to the optional extras installed. In the bottom section of the junction box there is an opening which connects the junction box control unit to

the electrical part of the junction box and the vehicle wiring harness. The fuses are located in the middle area of the junction box. The various relays are located in the left and right areas.

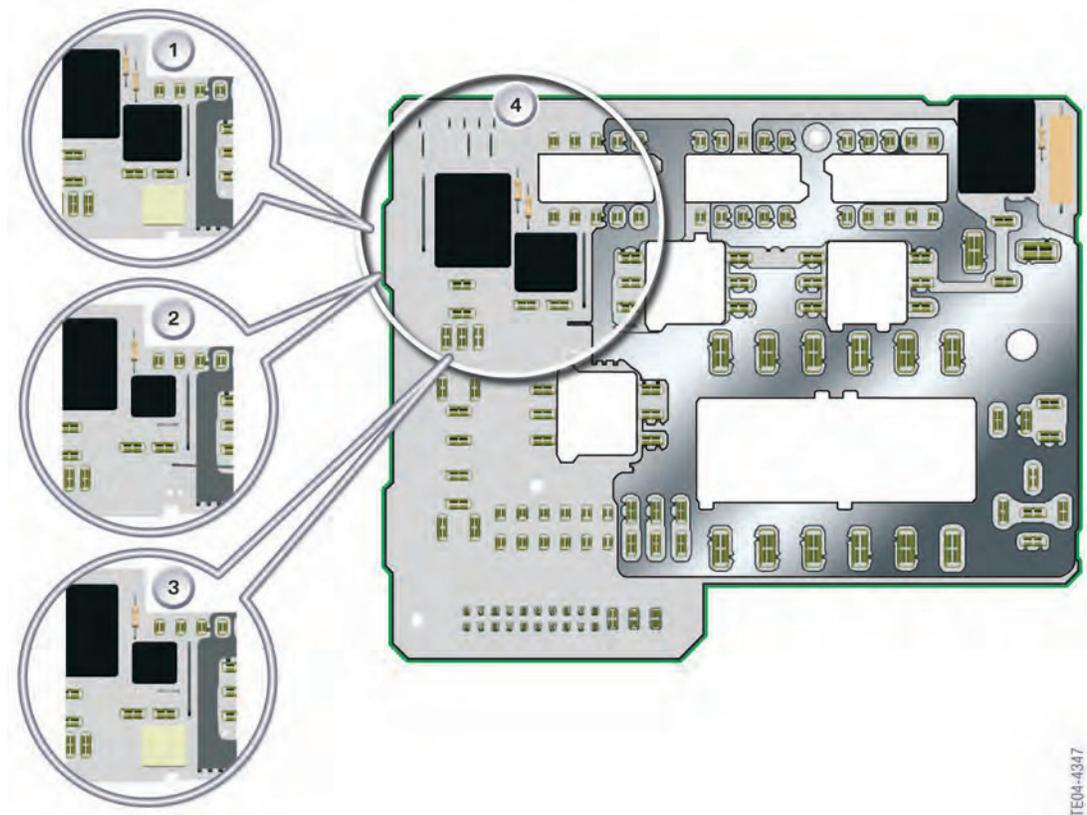
PCB in different variants

Different soldered relays are used in the glovebox fuse carrier corresponding to the equipment and engine specification.

The el. fuel pump/fanfare horn double relay is not installed in all engine variants. In M47TU2

engines the relay is not used to activate the electric fuel pump.

In this case, only one relay is used for the fanfare horn.



12 - Variant configuration, junction box

Index	Explanation
1	Wiper stage 2, double relay (fanfare horn and el. fuel pump), term. 30g_f
2	Wiper stage 2, single relay for fanfare horn
3	Wiper stage 2, single relay for fanfare horn, term. 30g_f
4	Wiper stage 2, double relay (fanfare horn and el. fuel pump)
5	Terminal 15 relay
6	Openings for wiring harness connectors