

AE EM40 Replacement Fuse Board Control Module

READ FITTING INSTRUCTIONS IN FULL BEFORE COMMENCING WORK

Installation Instructions for the AE EM40 fuse board replacement

Part Number: MOD-APU-005-NE, V1.2

1. Fitting the Fascia

1. Unscrew your old PCB from the fascia and separate them. Keep the retaining screws.
2. Place new sticker over the top of the original fascia sticker.
3. Place the new replacement PCB into the original fascia. Ensure the orientation of the PCB is correct such that the fuse location positions on the sticker match the fuse locations on the PCB.
4. Screw it in to place, using the original retaining screws.
5. Place fuses in to new fuse board*.

*The fuse holder locations may differ from your original. Be careful to place the correct value fuses in each fuse holder. The values are indicated on the PCB.

2. Connecting the Wiring

In many cases, users will have experienced connectors melting together, making it very difficult to disconnect. This symptom can occur on the VB IN (red) and FRIDGE OUT (green and black) connectors. The original connectors are rated to handle currents up to 16A; the connectors frequently experience currents greater than this amount, which leads them to burn out.

In place of the original VB IN and FRIDGE OUT connectors, WAGO® connectors are fitted on the AE EM40 design. The connectors fitted on this board are rated for 32A, double that of the originals.

1. Perform steps 2-6 for EACH wire from the VB IN (red) and FRIDGE OUT (green, black) connectors. Ensure work is conducted on each wire one at a time. This is to avoid wires touching each other, or touching anything else, which could lead to short circuiting and/or electrical damage.
2. Cut each wire from the VB IN (red) and FRIDGE OUT (green and black)*. ONLY cut the wires from these three connectors, all the other connectors must stay as they are originally.
3. Strip 12mm of insulation from each wire.
4. Open the lever on the WAGO® connector and insert the wire in to its respective place. The colour code legends on the PCB indicate which colour of wire goes in to which position*.
5. Ensuring that the wire has been fully inserted into the WAGO® connector, with no loose strands, close the orange lever.
6. Check the wire is firmly positioned in the WAGO® connector, by giving it a gentle pull. The wire should not slip from the connector, if correctly fitted.
7. Remove the remaining plugs from the original PCB and place them in to the correct positions on the new PCB, as indicated by the legends.

NOTE: the 'FIAT IN' and 'TO PSU' connectors on the AE EM40 are both WHITE. The RED connector from your wiring harness must go in the connector labelled 'FIAT IN'.

*Pay very close attention to where wires are being placed. Placing the wires in the wrong location may cause damage to electrical systems in your vehicle.

PCB LEGEND	WIRE COLOUR
W	WHITE
O	ORANGE
BLK/BK	BLACK
BRWN	BROWN
R	RED
Y	YELLOW

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