

# Technical Bulletin

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## BMW MINI Radiator Fan Resistor Replacement

Applicable References: ADB111402

Applications: BMW MINI 1.6i 2003>2006

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**The radiator fan resistor on the BMW Mini (2001>2006) can fail, resulting in one or both of the fan speeds no longer working and potential overheating issues.**

The resistor is attached to the radiator fan and cowling assembly and is not available separately from BMW. Thankfully Blue Print has the solution in the form of ADB111402.

**Allow approx 1.4 hours to remove and refit the fan cowling, and a further 30 minutes to replace the resistor.**

Tools required to replace the resistor:  
(not including those to remove the fan and cowling)

- 8mm spanner / ratchet and socket
- Wire cutter/crimping tool
- Heat gun

### Replacing the resistor pack:

- First you will need to remove the radiator fan assembly from the vehicle in order to gain access to the resistor pack. (Figure 1)
- Once removed, you will see the resistor pack on the top of the cowling which is held on by two 8mm screws. (Figure 2)
- Remove the two screws to release the resistor pack and then remove its cover. (Figure 3)

**Please turn over.**

### ADB111402



Fig. 1

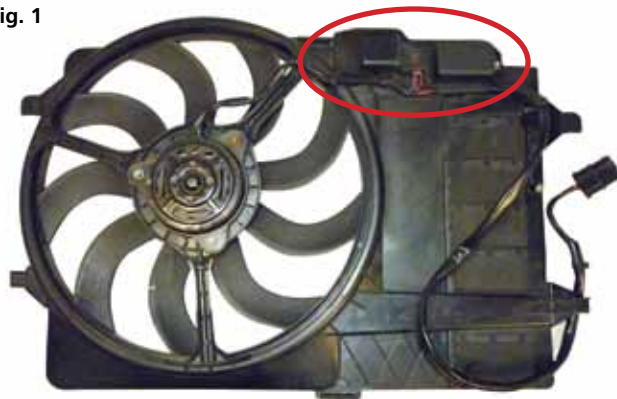


Fig. 2



Fig. 3



- Next, cut the three wires as close to the terminals as possible and strip the ends of the wires ready for connecting to the new resistor pack. (Figure 4)
- Locate the new resistor (without cover) into place on the fan cowling and cut the wires to length, allowing for the connectors and a little slack, and strip the ends of the wires.

Using the supplied heat shrink butt connectors, connect the following wires together (Figure 5):

- The **solid red wire** of the new resistor to the larger of the two red wires of the original harness.
  - The **red wire with black stripe** of the new resistor to the smaller of the two red wires of the original harness.
  - The **green wire** of the new resistor to the blue wire of the original harness
- Once firmly crimped, apply heat to the connectors to activate the heat shrink and form a waterproof connection. (Figure 6)
- Fit the resistor's cover and tighten the two 8mm screws. (Figure 7)
- Refit the fan assembly to the vehicle.

Fig. 4



Fig. 5

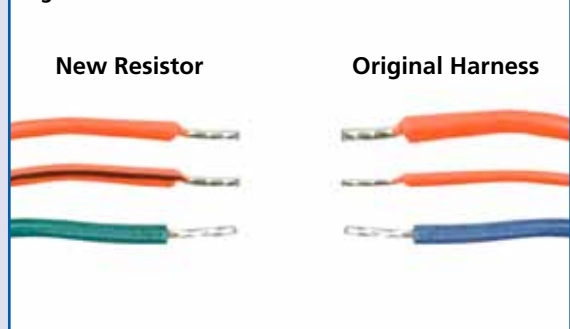


Fig. 6



Fig. 7

