

Auxiliary Heating - Fuel Fired Booster Heater

Diagnosis and Testing

Overview

For information on the description and operation of the system, refer to section 412-02 -REFER to:

[Fuel Fired Booster Heater](#) (412-02B Auxiliary Climate Control, Description and Operation),
[Fuel Fired Booster Heater](#) (412-02B, Description and Operation),
[Fuel Fired Booster Heater](#) (412-02B Auxiliary Climate Control, Removal and Installation),
[Fuel Fired Booster Heater Fuel Pump](#) (412-02B Auxiliary Climate Control, Removal and Installation),
[Fuel Fired Booster Heater Coolant Pump](#) (412-02B Auxiliary Climate Control, Removal and Installation),
[Fuel Fired Booster Heater Glow Plug And Burner Assembly](#) (412-02B Auxiliary Climate Control, Removal and Installation).

Auxiliary Heating in the workshop manual.

Inspection and Verification

1. **1.** Verify the customer concern.
2. **2.** Visually inspect for obvious mechanical or electrical faults.

Visual inspection

Mechanical	Electrical
● Fuel fired heater assembly - Combustion air fan - Coolant inlet/outlet - Heat exchanger - Temperature sensor - Exhaust - Fuel inlet - Air inlet - Evaporator ● Auxiliary fuel pump and lines ● Auxiliary coolant pump	● Fuses ● Harnesses ● Electrical connector(s) ● Controller area network (CAN) circuits ● Control module(s)

3. **3.** If an obvious cause for an observed or reported concern is found, correct the cause (if possible) before proceeding to the next step
4. **4.** Use the approved diagnostic system or a scan tool to retrieve any diagnostic trouble codes (DTCs) before moving onto the symptom chart or DTC index.



CAUTION: Diagnosis by substitution from a donor vehicle is **NOT** acceptable. Substitution of control modules does not guarantee confirmation of a fault, and may also cause additional faults in the vehicle being tested and/or the donor vehicle.

• **NOTE:** If the control module or a component is suspect and the vehicle remains under manufacturer warranty, refer to the Warranty Policy and Procedures manual (section B1.2), or determine if any prior approval programme is in operation, prior to the installation of a new module/component.

• **NOTE:** Generic scan tools may not read the codes listed, or may read only 5-digit codes. Match the 5 digits from the scan tool to the first 5 digits of the 7-digit code listed to identify the fault (the last 2 digits give extra information read by the manufacturer-approved diagnostic system).

• **NOTE:** Check and rectify basic faults before beginning diagnostic routines involving pinpoint tests.

• **NOTE:** Inspect connectors for signs of water ingress, and pins for damage and/or corrosion.

• **NOTE:** If DTCs are recorded and, after performing the pinpoint tests, a fault is not present, an intermittent concern may be the cause. Always check for loose connections and corroded terminals.

The table below lists all Diagnostic Trouble Codes (DTCs) that could be logged in the Fuel Fired Booster Heater Module, for additional Diagnosis and Testing information refer to the relevant Diagnosis and Testing Section

DTC index

For a complete list of all Diagnostic Trouble Codes (DTCs) that could be logged on this vehicle, please refer to Section 100-00. REFER to: [Diagnostic Trouble Code \(DTC\) Index - DTC: Auxiliary Heater Control Module \(AHCM\)](#) (100-00 General Information, Description and Operation).