

## 75 AND ZT CLUB TECHNICAL INFORMATION DOCUMENT

**Model:** Rover 75 / MG ZT and Tourer models

**Ref:** TID-003

**Derivative:** All ATC equipped cars

**Date:** 16/10/2005

**Title:** ATC DIAGNOSTIC CHECKS

**Description:** This document is intended as a guide to running the ATC diagnostics mode as an aid to fault finding with the heating and ventilation system on ATC equipped cars.

**Action required:** To run the ATC diagnostics routine follow the guide below.

**Detail:**

Notes: The ATC ECU runs a diagnostic check each time the ignition is switched on. To avoid misdiagnosis of faults at low light levels the sunlight sensor is not part of the self diagnosis routine. If a fault is detected the audible warning sounds three times and the AUTO window on the screen is flashed for 20 seconds. The ATC ECU then reverts to normal control but uses a default value or strategy for the detected fault. If there is a fault with the K bus link to the BCU (Body Control Unit) "er" shows in the RH temperature window. If the fresh/recirculated air servo fails in the recirculated position the ATC ECU signals the BCU to operate the rear screen heater for the remainder of the ignition cycle. Other faults are diagnosed by performing a manual diagnostics routine as described below.

1. Press and hold the AUTO and Air distribution buttons and keep them depressed
2. Whilst depressing the above buttons switch the IGN key from position 0 to position II
3. Release buttons when diagnostics have started (indicated by an audible tone and flashing of the display icons)
4. Once diagnostics have completed the ATC unit will display "FC" in the LH window and the corresponding fault code in the RH window. If multiple faults are present the ATC display will cycle through these faults at a rate of 1 per second. Please refer to the table of codes shown in Fig. 1 and example in Fig. 2
5. To cancel diagnostics press the off button or switch the IGN key back to position 0

Note: Remember the unit will indicate a sunlight sensor fault in low light conditions.

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Fig. 1

### Diagnostic fault codes and fault descriptions

Code	Component	Fault	Default value/strategy
00	-	No fault found	-
11	In-car temperature sensor	Open or short circuit	25 °C (77 °F)
12	K bus	Fault with ambient temperature input	10 °C (52 °F)
13	Evaporator sensor	Open or short circuit	5 °C (41 °F)
14	Heater coolant temperature sensor	Open or short circuit	70 °C (158 °F)
21	Sunlight sensor, left output	Open or short circuit	No solar heating correction
22	Sunlight sensor, right output	Open or short circuit	No solar heating correction
31	LH temperature servo motor	Open or short circuit Motor or flap mechanism seized	Servo motor locked in position
32	RH temperature servo motor	Open or short circuit Motor or flap mechanism seized	Servo motor locked in position
33	Distribution servo motor	Open or short circuit Motor or flap mechanism seized	Servo motor locked in position

Fig. 2



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