

Technical Bulletin

Model
911 C2/4
911 turbo

Group
8

Subject: Climate Control Troubleshooting

Part Identifier
8702

Number
9105

ATTENTION: Service Manager/Service Technician

Models Affected: **911 Carrera 2/4, All Model Years
911 turbo, Model Year '91 (M)**

Concern: Unnecessary replacement of climate control units.

General Information: Parts testing revealed no defects on a high number of climate control units replaced for A/C-heater problems.

Most faults stored are in the perimeter and therefore cannot be repaired by replacing the control unit. The only exception: inside temperature sensor code 11.

Troubleshooting:

A. Detailed fault diagnosis with system tester 9288.

If a fault is displayed in the perimeter, precise diagnosis with use of the additional menu points of tester 9288 must be performed.

This applies for all fault codes listed in section B.

Note: The additional menu points cannot be activated on control units with Part Number 964 659 047 00. For diagnosis control unit 964 659 047 01 (from '91 (M) model year) can be used.

When installing control unit Part Number 964 659 047 01 in cars prior to '91 (M) models, heater fans and engine compartment fan are running in the emergency function (with heater on heater fans-half value, engine compartment fan - position 2). This condition does not affect testing. Therefore, the controls should be set to max. cold.

Refer to Workshop Manual 911 Carrera 2/4 Volume VI, page 87-27 for wiring harness modification when replacing "...00" control unit with "...01" control unit for reasons other than diagnosis.

Sensor Faults: Menu point "Input Signals". The values of all connected sensors can be displayed and compared to published values. (Workshop Manual D80/87).

Drive Motor Faults: Menu point "Drive Links". The operation of each drive motor can be checked.

Fan Motor Faults: Menu point "Drive Links". Each fan motor can be activated. A bar graph displays the voltage for engine compartment, A/C condenser and oil cooler fan motor. Operation of left and right heater fan motors can be checked by observing air flow and fan noise.

B. Fault Diagnosis according to Fault Codes

Code	Fault area
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Repair steps

11	Inside temperature sensor break; present
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Erase fault memory. Switch on A/C-heater fan control for at least 3 seconds with ignition on. Read out fault memory. If fault still present, replace control unit.

11	Inside temperature sensor break; not present
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Same as above. Try to locate possible loose contact by moving control unit and wiring in the area of the temperature sensor.

12, 13	Left and right mixing chamber temperature sensor; present
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Erase fault memory. Switch on controls for at least 35 seconds. Read out fault memory. If fault still present, replace affected sensor.

