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AIR CONDITIONING IS INOPERATIVE, FAULT CODE 91EB11 OR 91EB15 IS STORED IN THE FAULT MEMORY, AIR CONDITIONING DOES NOT COOL OR SWITCHES OFF AUTOMATICALLY AFTER A SHORT TIME

TECHNICAL SERVICE BULLETIN

Reference Number(s): LI83.30-P-054342 Version 2, Date of Issue: February 19, 2016
 Mercedes-Benz: W / X 166, all engines
 Design Group: 83.30 Air conditioning
 Reason For Change: Removed requirement for PTSS case

COMPLAINT

The air conditioning is inoperative and intermittently does not cool.

The air conditioning switches off after a short time.

Fault code 91EB11 or 91EB15 is stored in the fault memory.

CAUSE

The wiring harness and the contact are faulty, pins may not be properly locked in the connector or the cable is damaged by chafing (see pictures, example OM651)

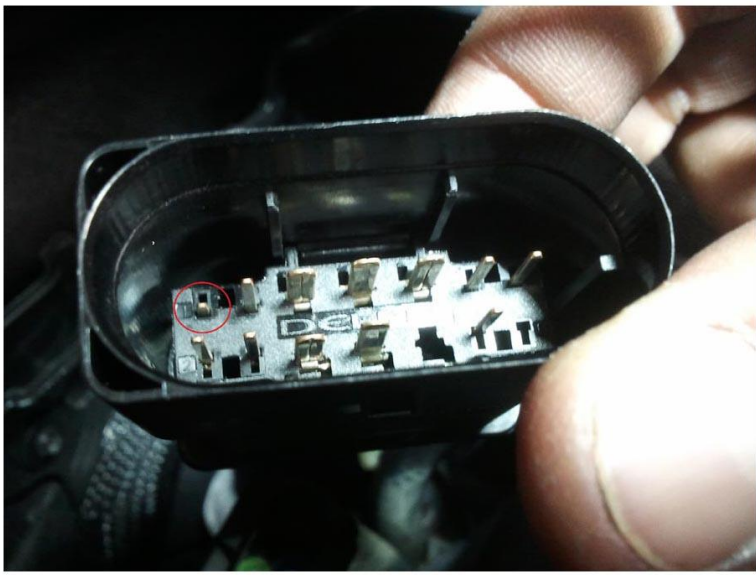
The pins in the engine compartment wiring harness may not be correctly installed (see pictures, example OM651).

The fault code 91EB11 or 91EB15 (regulation valve) is stored in the fault memory, contact is poor or a line is damaged, the refrigerant compressor is inoperative.

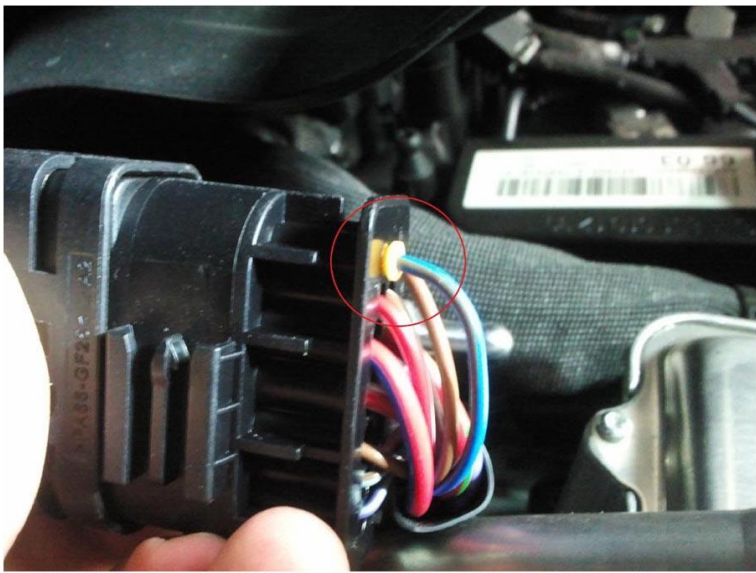
ATTACHMENTS

ATTACHMENTS

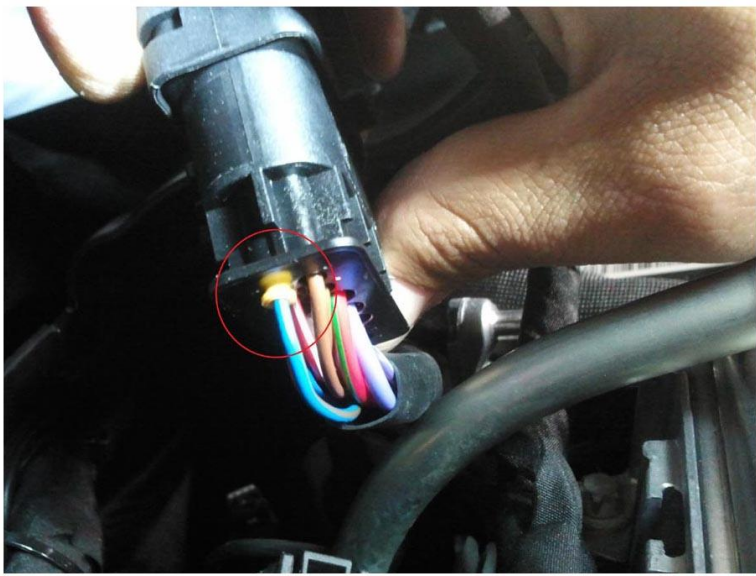
File	Description



Connector contact fault, Figure 2



Connector contact fault, Figure 3



Connector contact fault, Figure 4



Chafe point 1, OM651



Chafe point 2, OM651



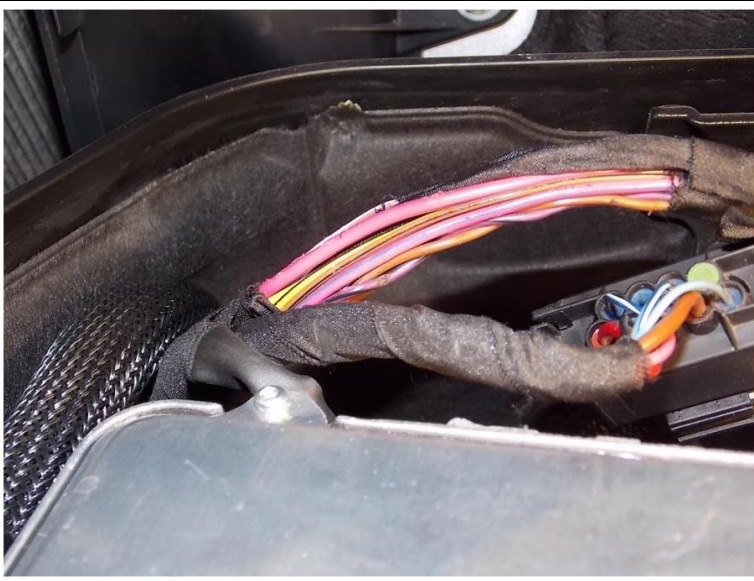
Chafe point 3, OM651



Chafe point 4, OM651



Chafe point 5, OM651



Chafe point 6, OM651

REMEDY

If fault code 91E815 is stored in the fault memory, first work through [LI83.30-P-054343](#).

If fault code 91EB11 or 91EB15 is stored, first check the resistance of the regulation valve at the refrigerant compressor (specified value 10 - 11 ohms at workshop temperature). Then test the feed line to the refrigerant compressor with the positive and negative connections. Process fault codes 91EB11 and 91EB15 with Xentry in the automatic air conditioning control unit using the "Fault code list" as specified.

Check engine compartment wiring harness for chafe marks and discontinuities.

If wiring harness is found to be damaged, repair as per WIS following wiring harness repair procedures.

NOTE: If the fault code is current in the fault memory, the refrigerant compressor is not actuated. In the ignition cycle the fault status can change to stored and the refrigerant compressor is actuated again when the AC ON button on the A/C control panel is pressed.

In this case, replacing the A/C control panel and the refrigerant compressor does not remedy the problem.

CONTROL UNIT/FAULT CODE

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Control unit	Fault code	Fault text
N22/7 - Air conditioning (AAC) (HVAC166)	91EB11	Actuation of the refrigerant compressor has a malfunction. There is a short circuit to ground.
N22/7 - Air conditioning (AAC) (HVAC166)	91EB15	Actuation of the refrigerant compressor has a malfunction. There is a short circuit to positive or an open circuit.

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