

FAULT DIAGNOSIS>1 LIGHTS>1008 SIDE LIGHTS NOT WORKING

Numerous faults, remote control not working, the buzzer cannot be heard, with the key on, Air Bag failure signal, rear screen wiper on, side lights on and, especially, the engine does not start, could be caused by a break in the steering column switch unit positive supply fuse.

TEST RESULTS				
0	PRELIMINARY CHECK	ALL OK	PROBLEMS ENCOUNTERED	ACTION
	Check correct battery voltage	Move on to Step 1	Battery voltage incorrect.	Restore the correct voltage.
1	STEERING COLUMN SWITCH UNIT CHECK	ALL OK	PROBLEMS ENCOUNTERED	ACTION
	Check that the steering column switch unit is working properly, especially the switch for the side lights and the engagement of the relay in the Body Computer by carrying out the See I Steering column switch unit light control operation check	Move on to Step 2	1. Stalk unit not working properly 2. None of the side lights come on and the relay in the Body Computer cannot be heard switching 3. The relay switches but the left/right side lights are not working.	1. Continue as instructed in the See table 1001 SIDE LIGHTS/NO. PLATE LIGHTS NOT WORKING 2. Move on to Step 5 3. Replace the component involved (in the case of a fuse, find out what caused it to blow). See E2010 SIDE LIGHTS / NO. PLATE LIGHTS
2	CHECK USING DIAGNOSTIC EQUIPMENT	ALL OK	PROBLEMS ENCOUNTERED	ACTION
	Connect the Examiner diagnostic equipment and check for the presence and variation of the parameters in the Body Computer ambient	Move on to Step 3	Impossible to connect to the control unit.	Move on to Step 5
3	ERROR CHECK	ALL OK	PROBLEMS ENCOUNTERED	ACTION

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3	ERROR CHECK	ALL OK	PROBLEMS ENCOUNTERED	ACTION
	Using an Examiner in Body Computer mode, check that there are no errors	Move on to Step 5	1. No communication between Body and Steering Column Switch Unit 2. Error in the lights operation. 3. Error in the steering column switch unit control unit.	1. Move on to Step 4 2. Move on to Step 7 3. Move on to Step 6
4	DATA TRANSMISSION LINE CHECK	ALL OK	PROBLEMS ENCOUNTERED	ACTION
	Check that the positive supply is correct at the data transmission lines between the Body Computer and the Steering Column Switch Unit See E2010 SIDE LIGHTS / NO. PLATE LIGHTS	Move on to Step 6	1. Wiring faulty 2. Body Computer control unit faulty 3. Steering Column Switch Unit Node control unit faulty.	1. Restore the electrical connections. 2. Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R. 3. Replace the steering column switch unit Op. 5550A10 STALK UNIT ASSEMBLY - R+R
5	BODY COMPUTER POWER SUPPLY CHECK	ALL OK	PROBLEMS ENCOUNTERED	ACTION
	Check that the positive supply is correct and check the Body Computer earth connections See E2010 SIDE LIGHTS / NO. PLATE LIGHTS	Move on to Step 6	1. Positive supply and/or wiring faulty. 2. Earth connections not working properly. 3. Body Computer faulty	1. Restore and/or replace the component involved (in the case of a fuse, find out what caused it to blow). 2. Restore the earth connection. 3. Replace Body Computer Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
6	CHECK USING DIAGNOSTIC EQUIPMENT	ALL OK	PROBLEMS ENCOUNTERED	ACTION

6	CHECK USING DIAGNOSTIC EQUIPMENT	ALL OK	PROBLEMS ENCOUNTERED	ACTION
	With the Examiner diagnostic equipment in the Body Computer ambient check that the function in question is correctly activated in Active Diagnosis. - Front/rear left/right side light control	Move on to Step 7	Side lights will not light because of blown lightbulbs.	Check the alternator is working correctly and replace the lightbulbs.
7	CHECK USING DIAGNOSTIC EQUIPMENT	ALL OK	PROBLEMS ENCOUNTERED	ACTION
	Using the Examiner in the Steering Column Switch Unit mode, check for the presence and variation of the parameters, namely: - Lights control	Move on to Step 8	1. Impossible to connect to the control unit. 2. Side lights control not working.	1. Move on to Step 8 2. Replace the steering column switch unit. Op. 5550A10 STALK UNIT ASSEMBLY - R+R
8	STEERING COLUMN SWITCH UNIT SUPPLY CHECK	ALL OK	PROBLEMS ENCOUNTERED	ACTION
	Check that the positive supply is correct and check the Steering Column Switch Unit Node earth connections See E2010 SIDE LIGHTS / NO. PLATE LIGHTS	End of diagnosis	1. Positive supply and/or wiring faulty. 2. Earth connections not working properly. 3. Steering Column Switch Unit Node faulty	1. Restore and/or replace the component involved (in the case of a fuse, find out what caused it to blow). 2. Restore the earth connection. 3. Replace the steering column switch unit. Op. 5550A10 STALK UNIT ASSEMBLY - R+R

ELECTRICAL EQUIPMENT>1 ELECTRICAL FUNCTIONS>E20 EXTERIOR LIGHTING>E2010 SIDE LIGHTS/NUMBER PLATE ...>E2010 SIDE LIGHTS / NO. PLATE LIGHTS

SIDE LIGHTS/NUMBER PLATE LIGHT - DESCRIPTION	SIDE LIGHTS/NUMBER PLATE LIGHT - FUNCTIONAL DESCRIPTION	SIDE LIGHTS/NUMBER PLATE LIGHT - WIRING DIAGRAM	SIDE LIGHTS/NUMBER PLATE LIGHT - COMPONENT LOCATION	Packet print
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Valid for versions with:Van, Extra long wheelbase

A single (earth) signal is sent from the stalk unit H005 to the Body Computer M001 to manage both the side lights and dipped headlights (including the AUTO mode); from pin 7 of H005 to pin 2 of connector B of M001; the signal is coded through various resistance partitions so that multiple information is sent from the steering column stalk unit to the Body Computer via a single connection.

A reference earth reaches pin 4 of connector A of steering column stalk unit H005 from pin 9 of connector B of Body Computer M001.

The Body Computer M001 receives a direct battery power supply at pin 1 (protected by fuse F38 of B002) and 18 of the coupling with the junction unit under the dashboard B002; it also receives an ignition-controlled power supply (INT) at pin 9 of the same coupling.

The M001 Body Computer is also connected to the C022 central dashboard earth via pins 10 and 19 of connector B and via pin 20 of the junction with the B002 junction unit under the dashboard (output from pin 10 of connector B of the B002 junction unit).

The Body Computer M001 manages the activation of the side lights respectively:

- from pin 52 connector A, for left light F010 (pin 4);
- from pin 39 connector A, for right light F011 (pin 4);
- from pin 8 connector C, for rear left light F030 (pin 6);
- from pin 9 connector C, for rear right light F031 (pin 2);
- from pin 12 connector C, for left-hand F050 (pin 1) and right-hand F051 (pin 1) number plate lights.

The side lights are activated by rain / dusk sensor K125 in AUTO mode; the sensor dialogues with the Body Computer via serial line A-BUS (connection between pin 2 of rain / dusk sensor K125 and pin 10 connector C of Body Computer M001).

[See E1060 A-BUS SERIAL LINE](#)

The dusk sensor is supplied (pin 1) by an INT line protected by fuse F49 of the junction unit under the dashboard B002, and is connected, via pin 3, to cabin earth C100. In this version there are also clearance lights fitted, which are subdivided into front (F066; A left branch, B right branch), central (F067; A left branch, B right branch) and rear (F068; A left branch, B right branch).

All the clearance lights receive a direct battery supply from a line protected by fuse F38 and controlled by relay T30, both located in secondary fuse box B098.

The activation of the lights is controlled by the Body Computer M001 which, provides an earth signal, from pin 1 connector C, for the coil for relay T30 (pin 25 of connector A of B098), closing the circuit and providing a power supply for all the lights via pin 29 of connector A of junction unit B098.

The side/no. plate lights can also be turned on by placing the ignition switch H001 in the PARK position (POS power supply); the Body Computer M001 receives this power supply via pin 12 of the coupling with the junction unit under the dashboard B002.

The connection between pin 5 of connector A of the steering column switch unit H005 and pin 7 of connector B of the Body Computer M001 (direction indicators) allows the possible selection of the lights on only one of the two vehicle branches (left or right).

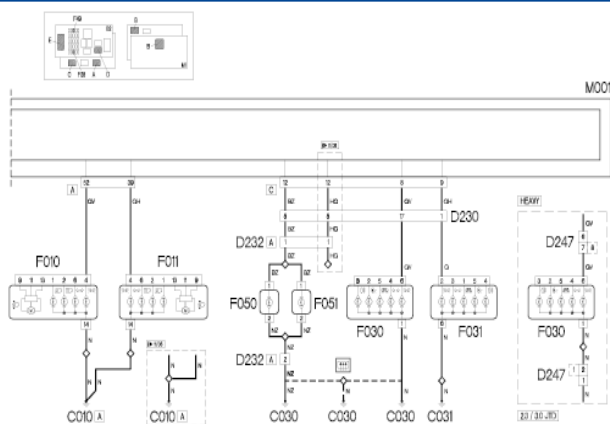
[See E2020 DIRECTION INDICATORS / HAZARD WARNING LIGHTS](#)

The Follow me home function is activated by a "main beam headlights flasher" earth signal sent from the steering column switch unit H005 (pin 6 connector A) to the Body Computer M001 (pin 4 connector B).

[See E2012 MAIN BEAM HEADLAMPS](#)

The Body Computer is connected, via the CAN line, pins 5 and 6 of connector B, to the instrument panel E050 to manage the "side lights on" warning light.

In addition, if there are faults detected in the circuit or in the bulbs, the Body Computer manages the "exterior lights failure" warning light, via the CAN, or, in the case of a failure in the dusk sensor, the "general failure" warning light and the relevant messages in the display.



Full-size

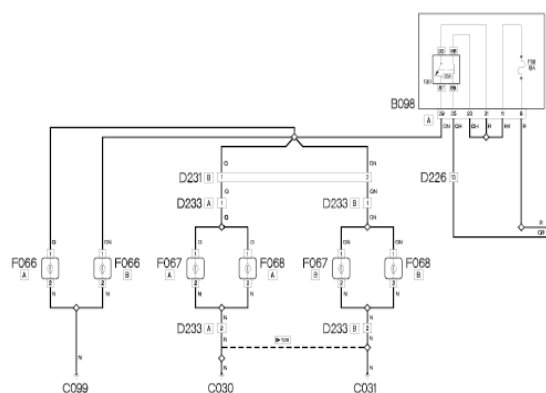
COMPONENTS

Component code	Description	With reference to the assembly
B002	JUNCTION UNIT UNDER DASHBOARD	Op. 5505A MULTI-FUNCTION COMPONENTS
B098	SUPPLEMENTARY FUSE BOX	-
B099	MAXI FUSE BOX ON BATTERY	Op. 5530B BATTERY AND LEADS
C010	LEFT FRONT EARTH	-
C022	Centre dashboard earth	-
C030	LEFT REAR EARTH	-
C031	RIGHT REAR EARTH	-
C099	OPT CAB EARTH	-
C100	CAB EARTH	-
D226	CAB/OPT CAB COUPLING	-
D230	RIGHT LONGITUDINAL/CAB COUPLING	-

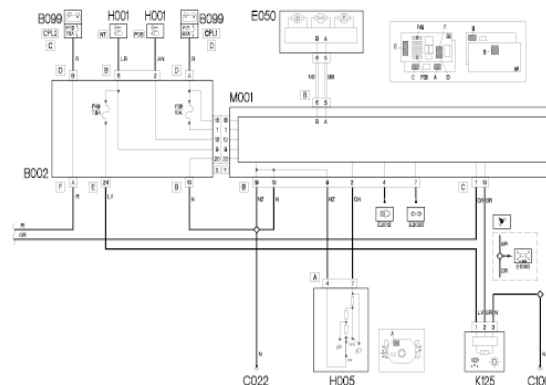


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Valid for versions with:Van, Extra long wheelbase



Full-size



C100	CAB EARTH	-
D226	CAB/OPT CAB COUPLING	-
D230	RIGHT LONGITUDINAL/CAB COUPLING	-
D231	RIGHT LONGITUDINAL/OPT. CAB COUPLING	-
D232	RIGHT LONGITUDINAL/LEFT SWING DOOR COUPLING	-
D233	RIGHT LONGITUDINAL/SIDE MARKERS COUPLING	-
D247	REAR FOG LAMP BRIDGE COUPLING	-
E050	INSTRUMENT PANEL	Op. 5560B ANALOGUE CONTROL PANEL
F010	LEFT HEADLAMP	Op. 5540B HEADLAMPS
F011	RIGHT HEADLAMP	Op. 5540B HEADLAMPS
F030	LEFT REAR LIGHT CLUSTER	Op. 5540A LIGHTING
F031	RIGHT REAR LIGHT CLUSTER	Op. 5540A LIGHTING
F050	LEFT NUMBER PLATE LIGHT	Op. 5540A LIGHTING
F051	RIGHT NUMBER PLATE LIGHT	Op. 5540A LIGHTING
F066	FRONT SIDE MARKER	-
F067	CENTRE SIDE MARKER	-
F068	REAR SIDE MARKER	-
H001	IGNITION SWITCH	Op. 5520A IGNITION SWITCH
H005	STEERING COLUMN SWITCH UNIT	Op. 5550A STALK UNIT
K125	RAIN AND DUSK SENSOR	Op. 5050B WINDSCREEN WASH/WIPE
M001	BODY COMPUTER	Op. 5505A MULTI-FUNCTION COMPONENTS

LIGHTS/NUMBER PLATE ...>E2010 SIDE LIGHTS / NO. PLATE LIGHTS		
C100	CAB EARTH	-
D226	CAB/OPT CAB COUPLING	-
D230	RIGHT LONGITUDINAL/CAB COUPLING	-
D231	RIGHT LONGITUDINAL/OPT. CAB COUPLING	-
D232	RIGHT LONGITUDINAL/LEFT SWING DOOR COUPLING	-
D233	RIGHT LONGITUDINAL/SIDE MARKERS COUPLING	-
D247	REAR FOG LAMP BRIDGE COUPLING	-
E050	INSTRUMENT PANEL	Op. 5560B ANALOGUE CONTROL PANEL
F010	LEFT HEADLAMP	Op. 5540B HEADLAMPS
F011	RIGHT HEADLAMP	Op. 5540B HEADLAMPS
F030	LEFT REAR LIGHT CLUSTER	Op. 5540A LIGHTING
F031	RIGHT REAR LIGHT CLUSTER	Op. 5540A LIGHTING
F050	LEFT NUMBER PLATE LIGHT	Op. 5540A LIGHTING
F051	RIGHT NUMBER PLATE LIGHT	Op. 5540A LIGHTING
F066	FRONT SIDE MARKER	-
F067	CENTRE SIDE MARKER	-
F068	REAR SIDE MARKER	-
H001	IGNITION SWITCH	Op. 5520A IGNITION SWITCH
H005	STEERING COLUMN SWITCH UNIT	Op. 5550A STALK UNIT
K125	RAIN AND DUSK SENSOR	Op. 5050B WINDSCREEN WASH/WIPE
M001	BODY COMPUTER	Op. 5505A MULTI-FUNCTION COMPONENTS