



DIRECTION INDICATORS / HAZARD WARNING LIGHTS

DIRECTION INDICATORS/HAZARD WARNING LIGHTS - DESCRIPTION

The left and right direction indicators are switched on by raising or lowering the special stalk lever on the left of the steering column switch unit; the function is activated with the key in the ON position.

The hazard warning lights (left and right direction indicators operated simultaneously) are activated via a button in the centre of the dashboard and all the direction indicators are activated at the same time. An LED at the back of the control button also comes on synchronized with the flashing of the exterior lights. This function is always activated for safety reasons.

The engagement of the direction indicators/hazard warning lights is managed by the Body Computer which also controls the flashing frequency.

In this way the two direction indicator warning lights in the instrument panel are also switched on; in addition, the system provides a low frequency acoustic signal in conjunction with the activation of the lights.

The Body Computer controls the correct operation of the direction indicators for each of the two circuits (right branch and left branch), detecting the following possible faults:

- open load also without any command;
- load short circuited to earth or Vbatt;
- bulb missing or replaced with a more powerful one for the side lights (21W instead of 5W) or a less powerful one for the front and rear lights (5W instead of 21W).

Having detected a fault, the Body Computer switches on the "Exterior lights failure" warning light in the instrument panel.



The direction indicators are also used to signal that the commands sent by the remote control have been received and/or to signal a manoeuvre not carried out by the "passenger compartment access" control system.

See E3040 CENTRAL LOCKING

For road safety reasons, on Heavy Van versions (designed for transporting heavy loads), an additional bridge connecting the left rear light and the rear fog light is fitted.

See E2031 REAR FOG LAMPS

DIRECTION INDICATORS/HAZARD WARNING LIGHTS - FUNCTIONAL DESCRIPTION

A single (earth) signal is sent from the stalk unit H005 to Body Computer M001 to manage the left and right direction indicators: from pin 5 of H005 to pin 7 of connector B of M001; the signal sent is coded through various resistance partitions so that different information is sent to the Body Computer from the steering column switch unit 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 hazard warning lights activation signal reaches pin 29 of connector B of M001 from the hazard warning lights control button in the centre switch panel H090 (pin 5).

The connection between pin 34 of connector B of the Body Computer M001 and pin 5 of the centre switch panel H090 allows the LED in the button to come in synchronized with the flashing of the direction indicators.

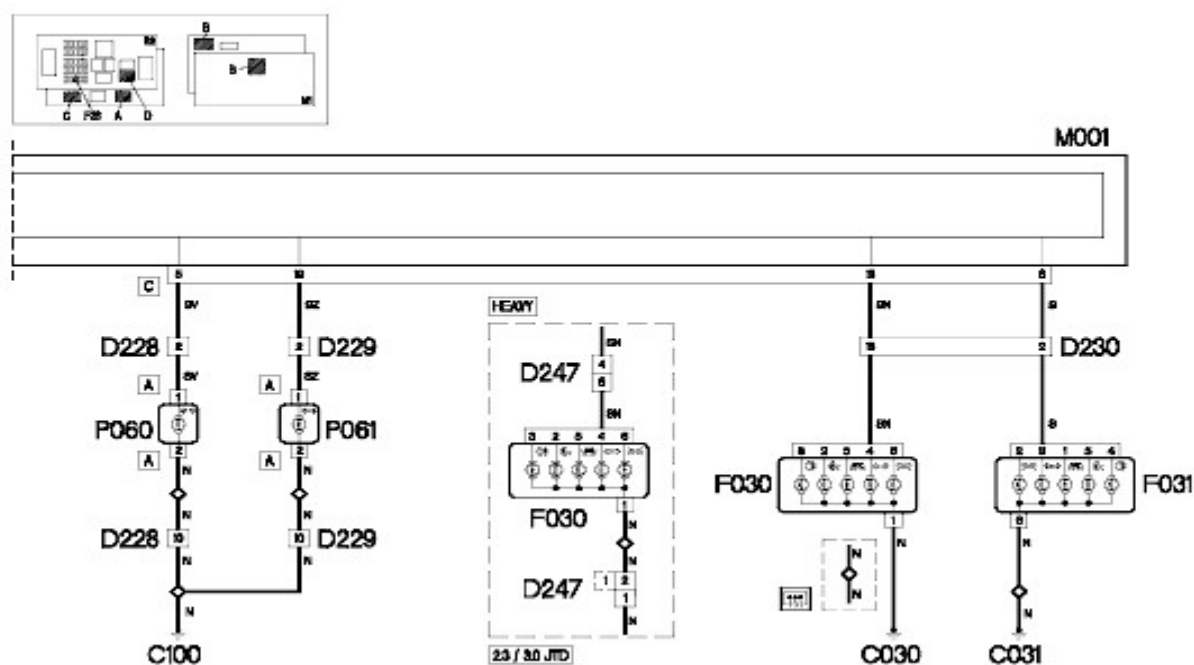
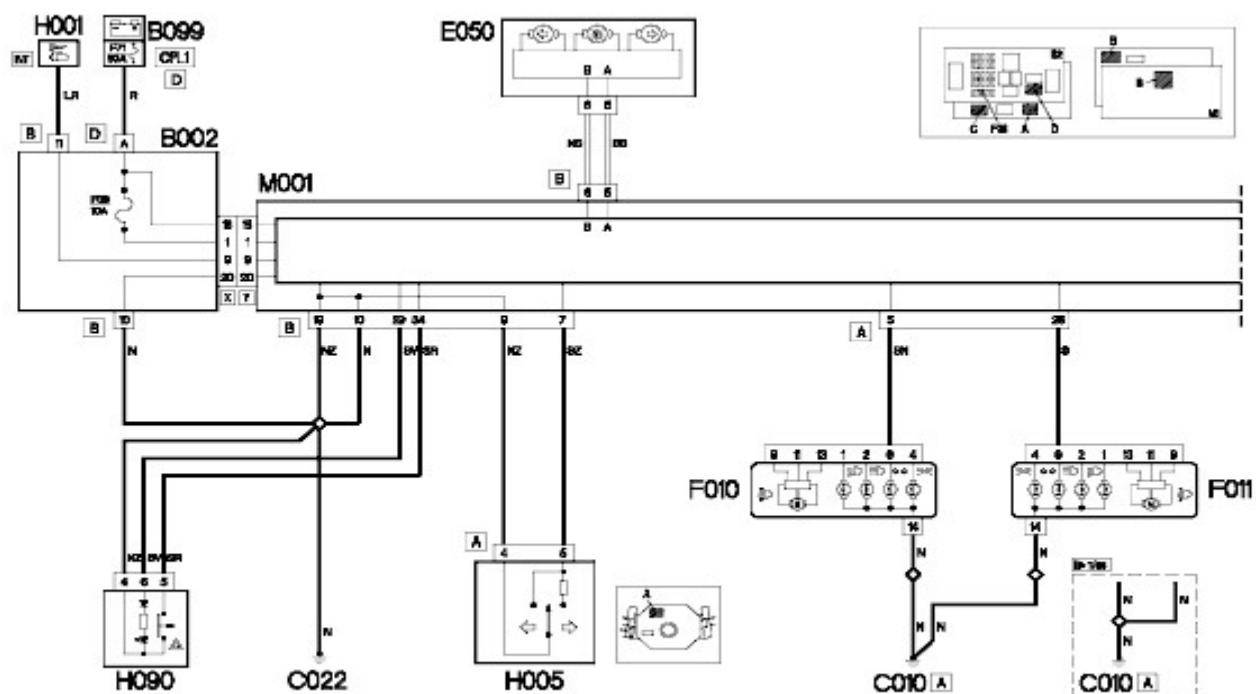
The centre switch panel H090 is connected, via pin 4, to the centre dashboard earth C022.

The Body Computer M001 manages the activation of the direction indicators respectively:

- from pin 5 of connector A, the direction indicator in the left light cluster F010 (pin 6);
- from pin 28 of connector A, the direction indicator in the right light cluster F011 (pin 6);
- from pin 5 of connector C, the side direction indicator in the driver's door mirror P060 (pin 1 of connector A);
- from pin 19 of connector C, the side direction indicator in the passenger side door mirror P061 (pin 1 of connector A);
- from pin 18 of connector C, the direction indicator in the left rear light cluster F030 (pin 4);
- from pin 6 of connector C, the direction indicator in the right rear light cluster F031 (pin 3).

Via the CAN line, the Body Computer M001 (pins 5 and 6 of connector B) connects to the instrument panel E050 (pins 5 and 6) to manage the direction indicators warning lights, the buzzer and, if faults are detected in the circuit or bulbs, the exterior lighting warning light, in addition to the message in the display.

DIRECTION INDICATORS/HAZARD WARNING LIGHTS - WIRING DIAGRAM

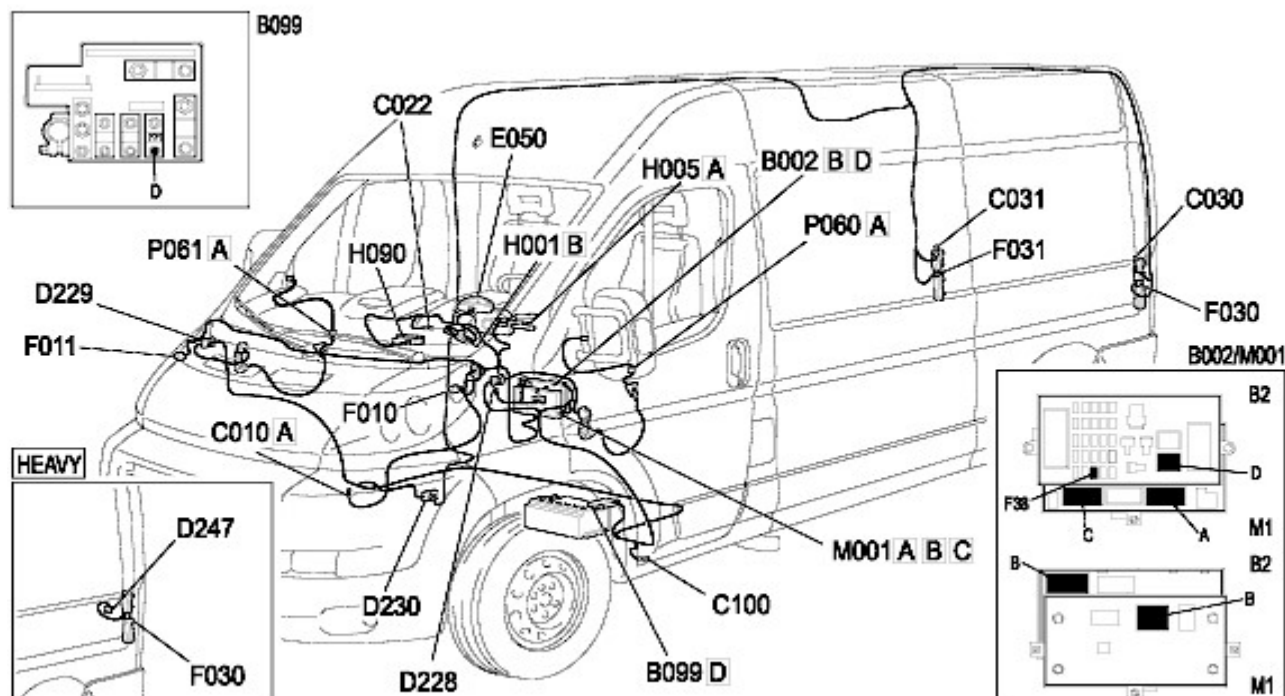


Component code	Description
B002	JUNCTION UNIT UNDER DASHBOARD
B099	MAXI FUSE BOX ON BATTERY
C010	LEFT FRONT EARTH
C022	Centre dashboard earth
C030	LEFT REAR EARTH
C031	RIGHT REAR EARTH
C100	CAB EARTH

With reference to the assembly
Op. 5505A MULTI-FUNCTION COMPONENTS
Op. 5530B BATTERY AND LEADS

D228	CAB/FRONT DRIVER'S DOOR COUPLING	-
D229	CAB/FRONT PASSENGER DOOR COUPLING	-
D230	RIGHT LONGITUDINAL/CAB 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
H001	IGNITION SWITCH	Op. 5520A IGNITION SWITCH
H005	STEERING COLUMN SWITCH UNIT	Op. 5550A STALK UNIT
H090	SWITCH CONTROL PANEL	Op. 7040A PASSENGER COMPARTMENT TRIMS
M001	BODY COMPUTER	Op. 5505A MULTI-FUNCTION COMPONENTS
P060	DRIVER'S DOOR MIRROR	Op. 7005R FRONT DOOR MIRRORS
P061	PASSENGER DOOR MIRROR	Op. 7005R FRONT DOOR MIRRORS

DIRECTION INDICATORS/HAZARD WARNING LIGHTS - COMPONENT LOCATION



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M001	BODY COMPUTER	Op. 5505A MULTI-FUNCTION COMPONENTS
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