



BLOCCAPORTE

290/295 - Ducato FL 2014

DOOR LOCKING - DESCRIPTION

The motors operating the locks on the front doors, sliding side door and rear double doors are operated simultaneously by using:

- the key;
- the remote control;
- the specific buttons located inside the vehicle.

The remote control unit has three buttons that allow the central locking system to be controlled: a button for unlocking the front doors, one for unlocking the load compartment doors and one for locking the doors.

To lock the doors from the outside, with the doors closed, press the special button in the remote control or insert the key in the driver's door lock and turn it clockwise.

If one or more of the doors is open after the button on the remote control is pressed, the direction indicators and the LED in the button will flash quickly for about three seconds.

The door locking action (with remote-control key) is accompanied by one flash of the direction indicators.

To unlock the doors from the outside, press the special button in the remote control (with the following timed activation of the interior courtesy lights and the double flashing of the direction indicators) or insert the key in the driver's door lock and turn it counter-clockwise.

The door unlocking action (with remote-control key) is accompanied by two flashes of the direction indicators.

The doors can also be locked / unlocked from the inside using the button in the central control panel.

The switching on of the LED integrated in the locking/unlocking button reports the condition of locked doors; pressing this button again, the doors are unlocked at the same time, automatically and the dedicated LED switches off.

If the dedicated function is selected using the Set up menu, the central locking of the doors takes place automatically when a speed of 20 km/h is exceeded.


In the case of door open and vehicle moving, a buzzer starts operating.


To unlock the load compartment lock, press the special button in the remote control key.

The unlocking manoeuvre is signalled by the direction indicators flashing twice.

To lock/unlock the load compartment, irrespective of the status of the front doors, this can also be done from the inside by pressing the button located in the driver's front door electric windows control panel.

The activation of the locking is signalled by the LED in the button.

 After locking the doors using the remote control or the door catch (from the outside), the button located in the dashboard cannot be used to unlock them.

 With the central locking on, pulling the opening lever for one of the front doors causes the central locking to be switched off. Individual doors can be unlocked by pulling the opening handle of one of the rear doors.

To open/close the sliding side door, with the doors unlocked, the handle must be raised and moved in the direction that the door opens.

To open the first rear swing door, operate the handle after having turned the key anti-clockwise or pressed the button in the remote control.

The second swing door can be opened by pulling the handle on it.

Similarly to close, taking care to close the left door first and then the right one, turn the key clockwise or press the button in the remote control.

The vehicle may also be equipped with a dead lock safety device which inhibits the operation of:

- interior handles;
- door locking/unlocking button in the dashboard;
- load compartment door locking/unlocking button.

In this way the opening of the doors from inside the passenger compartment is prevented if there has been a break in attempt (for example, a window being broken).

To turn the device on, press the door locking button in the key remote control twice in quick succession.

The direction indicators flash 3 times and the LED in the door locking button in the dashboard controls flashes to indicate that the device has been turned on.

The device does not come on if one or more doors is not properly shut.

The system is disabled automatically on every door in the following cases:

- if the mechanical key is turned to the opening position in the driver's door;
- by unlocking the doors using the remote control;

- by turning the ignition key to the MAR position.

The vehicle is also equipped with a safety switch which, in the case of a serious impact, cuts off the flow of fuel to the engine (inertia switch).

When the inertia switch starts operating, the following situation occurs: the vehicle doors are automatically unlocked, the warning light for "general failure" on the instrument panel switches on and, on versions with multifunction display, the icon and the dedicated message are displayed as well.

The central locking motors are operated by a series of relay switches built into the Body Computer that allow the polarisation of the motors to be changed according to the locking/unlocking commands requested by the user. Their power supply line is protected by a fuse located in the Body Computer.

The situation of "door open" is reported by the switching on of the dedicated icon on the instrument panel display and by showing a dedicated message, wherever feasible. This situation will continue until all the doors are completely closed.

DOOR LOCKING - FUNCTIONAL DESCRIPTION

The door locking/unlocking function is managed by the Body Computer.

Body Computer M001 receives the following inputs:

- lock/unlock signals from the aerial-receiver of remote control unit P093, which is connected to pins 15 (signal) and 30 (earth) of connector F;
- lock/unlock signals from the key pawl in driver side door lock geared motor N050 (pin 2), at pin 53 of connector F;
- The negative signal from the locking/unlocking button, located in the central control panel H090 (pin 7), at pin 1 of connector H;
- the negative signal from the load compartment door locking/unlocking button located in the control panel on front door H051 (pin 4) at pin 27 of connector F.

The signalling/deterrence LED on the button of control panel H090 (pin 12) is activated by a positive signal from pin 23 of connector H of the Body Computer M001; pin 4 of H090 is connected to the central dashboard earth C022 (connector A).

The LED incorporated in the button for the control unit H051 (pin 2) is activated by a positive signal from pin 41 of connector F of M001; pin 3 of H051 is connected to the cab earth C100.

According to the control logic illustrated, the Body Computer M001 (through fuse F38 and the built in relay switches) controls the geared motors for the driver's side N050 and passenger side N051 front door locks, those for the right sliding side door lock N167 and that for rear right swing door lock N054, in particular:

- the common power supply is sent to the motors of all doors (pin 7 of N050, N051, N054, N166 and N167) from pin 32 of connector E;
- the front door locking/unlocking motors are operated from pin 18 of connector E (pin 6 of N050 and N051);
- pin 14 of connector E operates the locking/unlocking motors for the sliding side doors and the rear right swing door (pin 6 of N166, N167 and N054);
- pin 3 of connector E operates the "dead-lock" function motors for all doors (pin 8 of N050, N051, N054, N166 and N167).

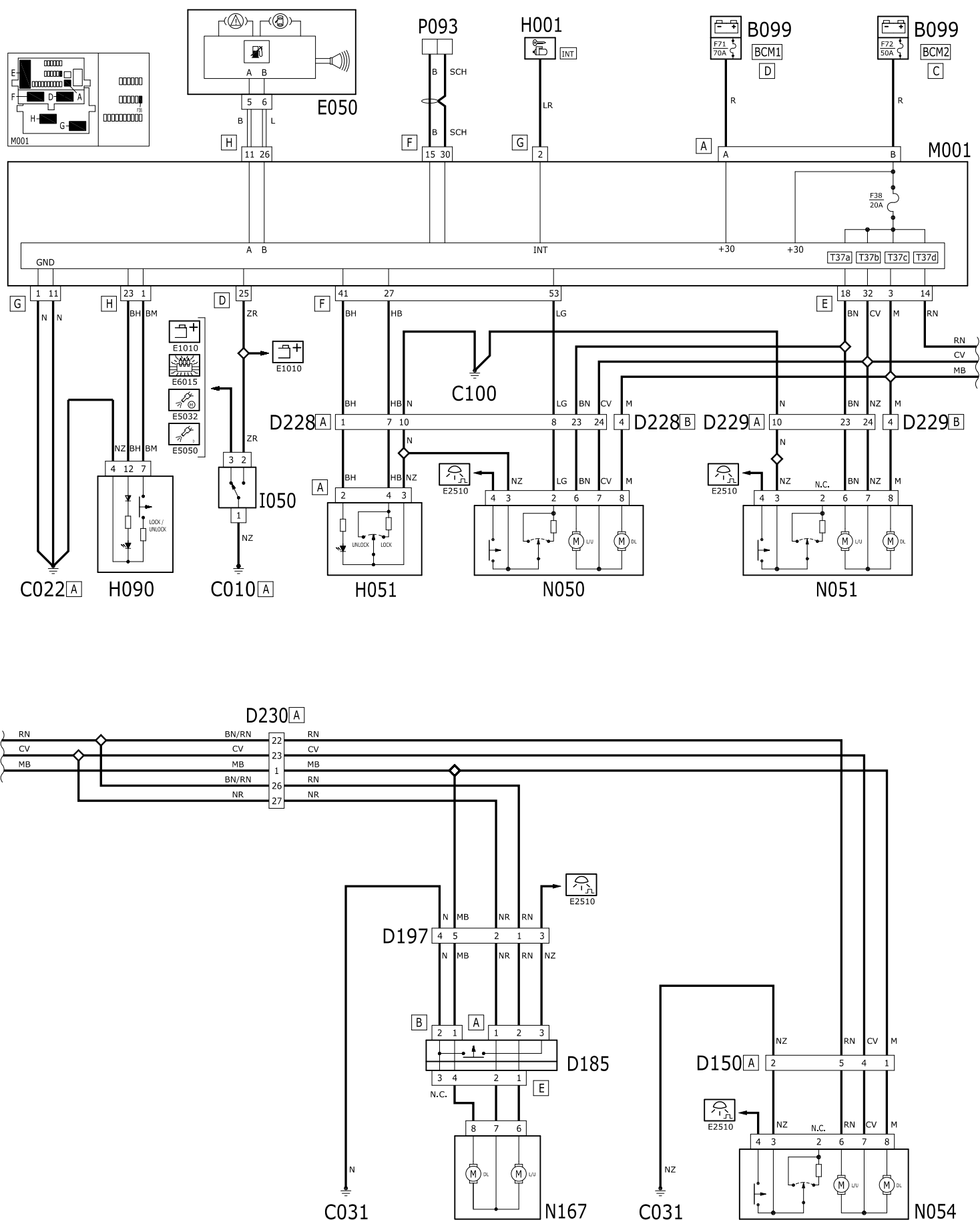
When the doors are opened, pins 4 of the front doors geared motors N050 and N051 send a negative signal to switch on the front ceiling light. In the same way, the opening of the right sliding side door (pin 3 of connector A of right sliding side door - of contact board D185) and the rear right swing door N054 (pin 4) switches on the rear/load compartment ceiling lights.

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The Body Computer M001 also receives the signal relating to the activation of the inertia switch I050 (negative signal) at pin 25 of connector D.

The Body Computer sends the instrument panel E050 (pins 5 and 6) all the information useful for the management of the "general failure" warning light (if the inertia switch activates) and of the "doors open" icon being displayed along with a buzzer (if relevant) via the B-CAN through pins 11 and 26 of connector H. For versions with reconfigurable display, the Body Computer handles, still using the same B-CAN connection to the instrument panel E050, the switching on of a dedicated icon and the displaying of a message, if the inertia switch activates.

DOOR LOCKING - WIRING DIAGRAM



DOOR LOCKING - COMPONENT LOCATION

