



CENTRAL LOCKING

CENTRAL 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 operation of the central locking system: a button for unlocking the front doors, one for unlocking the boot 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 around 3 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 consequent timed activation of the interior courtesy light and the double signal from the direction indicators) or insert the key in the driver's door lock and turn it anti-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 two buttons in the centre control panel.

The LED in the locking button coming on signals the doors locked status.

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.

If one or more doors are open, the instrument panel activates a internal warning sound once the vehicle exceeds a speed of 4 Km/h.

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. Pulling the interior opening lever for one of the rear doors causes the individual door to be unlocked.

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 buttons 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 device is turned off automatically for all the doors 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 ON 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 is operated, all the vehicle doors are automatically unlocked.

All the command logic is controlled by the Body Computer and the central-locking command control unit, protected by relevant fuses located in the junction unit under the dashboard.

In a situation where one or more doors are open, this is shown by the message in the instrument panel display and a special warning light coming on. This situation will continue until all the doors are completely closed.

CENTRAL LOCKING - FUNCTIONAL DESCRIPTION

The central locking control unit M080 receives a direct battery power supply, at pin 1, via the line protected by fuse F36 located in the junction unit under the dashboard B002.

It also receives, at pin 8, a reference coming from the C100 cabin earth.

The H090 command switch unit is connected, via pin 11, to pin 20 of connector B of the M001 Body Computer, to which it sends the signal relating to the locking / unlocking of the doors.

Once the door locking command has been received the Body Computer lights up, from pin 14 of connector B, the LED built into the relevant button on the H090 command switch unit (pin 12).

The H090 command switch unit is connected, via pin 4, to the C022 central dashboard earth.

The control panel on the driver's front door H051 is connected, via pin 4, to pin 50 of connector C of the Body Computer M001, to which it sends the signal related to the locking/unlocking of the load compartment doors.

Having received the command, the Body Computer lights up the LED incorporated in the button for the control unit H051 (pin 2) from pin 15 of connector C.

The control panel on the driver's front door H051 is connected, via pin 3, to the cab earth C100.

The M080 central locking command control unit controls, via pins 4 and 7, the N050 left front door geared motor (pins 6 and 7), and via pins 5 and 15, the N051 right front door geared motor (pins 7 and 6).

It also controls the geared motor for the right rear swing door N054 via pins 12 and 9 and the locking/unlocking of the right sliding door via pins 13 and 9 through the contact board D185 (pins 1 and 2 of connector A).

The Body Computer M001 sends the commands, from pins 4, 36 and 41 of connector C, for locking/unlocking the doors to the central locking control unit M080. Specifically:

- from pin 4 of connector C the M001 Body Computer is connected to pin 6 of the M080 central locking command control unit, to which it sends the (negative) command relating to the complete locking of the doors;
- from pin 36 of connector C the Body Computer M001 is connected to pin 14 of the central locking control unit M080 to which it sends the (negative) command to lock/unlock the doors;
- from pin 41 of connector C the Body Computer M001 is connected to pin 2 of the central locking control unit M080 to which it sends the (negative) command relating to the locking / unlocking of the load compartment.

The central locking control unit M080 receives the request to switch the dead lock device on, at pin 10, from the Body Computer M001 (pin 42 of connector C) controlling its activation via the following connections:

- from pin 3 of M080 to the left N050 and right N051 front door geared motors (pin 8);
- from pin 11 of M080 to the right swing door geared motor N054 (pin 8) and to the right sliding side door lock geared motor N167 (pin 8) via the contact board on the sliding side door D185.

The Body Computer M001 also receives the doors open signal, at pins 11, 34, 33 and 35 of connector C, for the left front door, right front door, right rear swing door and right sliding side door respectively.

The Body Computer also receives the signal relating to the activation of the inertia switch I050 (negative signal) at pin 23 of connector A.

The Body Computer sends the instrument panel E050 all the information useful for the management of the "doors open" warning light and the buzzer in the instrument panel via the B-CAN through pins 5 and 6 of connector B.

The Body Computer is connected at pin 43 of connector A to the central locking aerial P093.

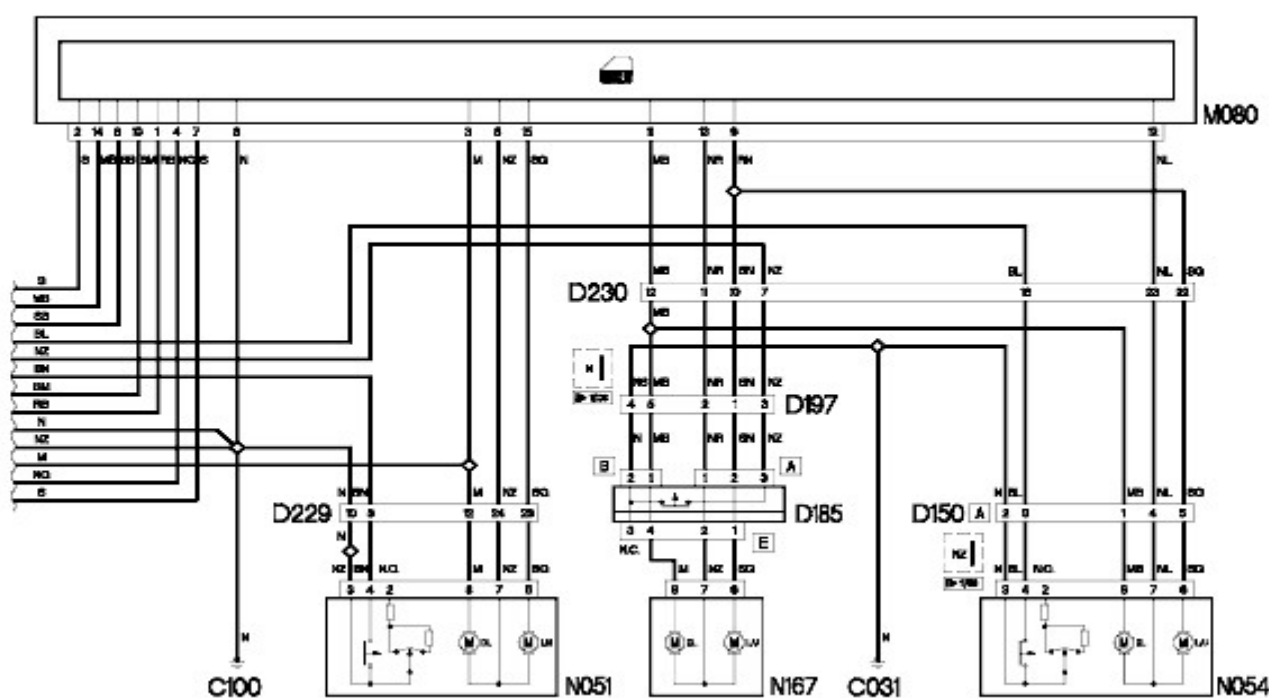
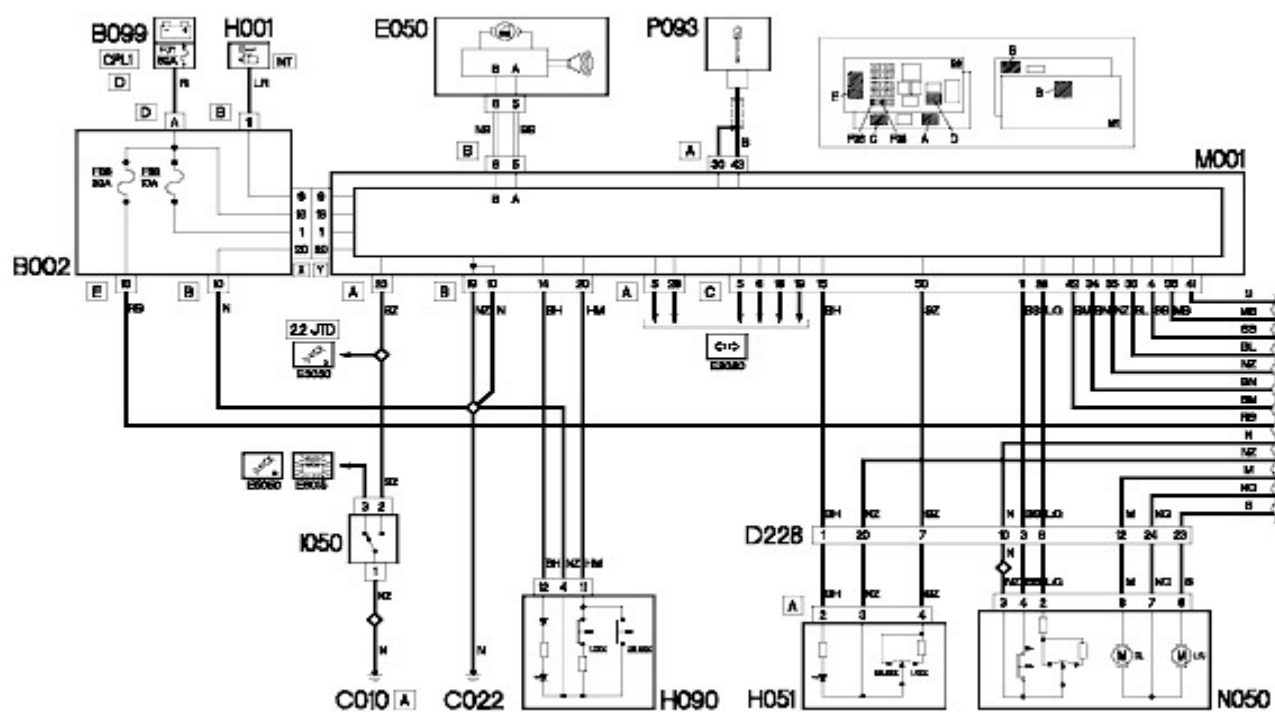
Via pins 5 and 28 of connector A, and pins 5, 6, 18 and 19 of connector C, the M001 Body Computer manages the indicator lights flashing function.

See E2020 DIRECTION INDICATORS / HAZARD WARNING LIGHTS

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).

CENTRAL LOCKING - WIRING DIAGRAM



Component
code

Description

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

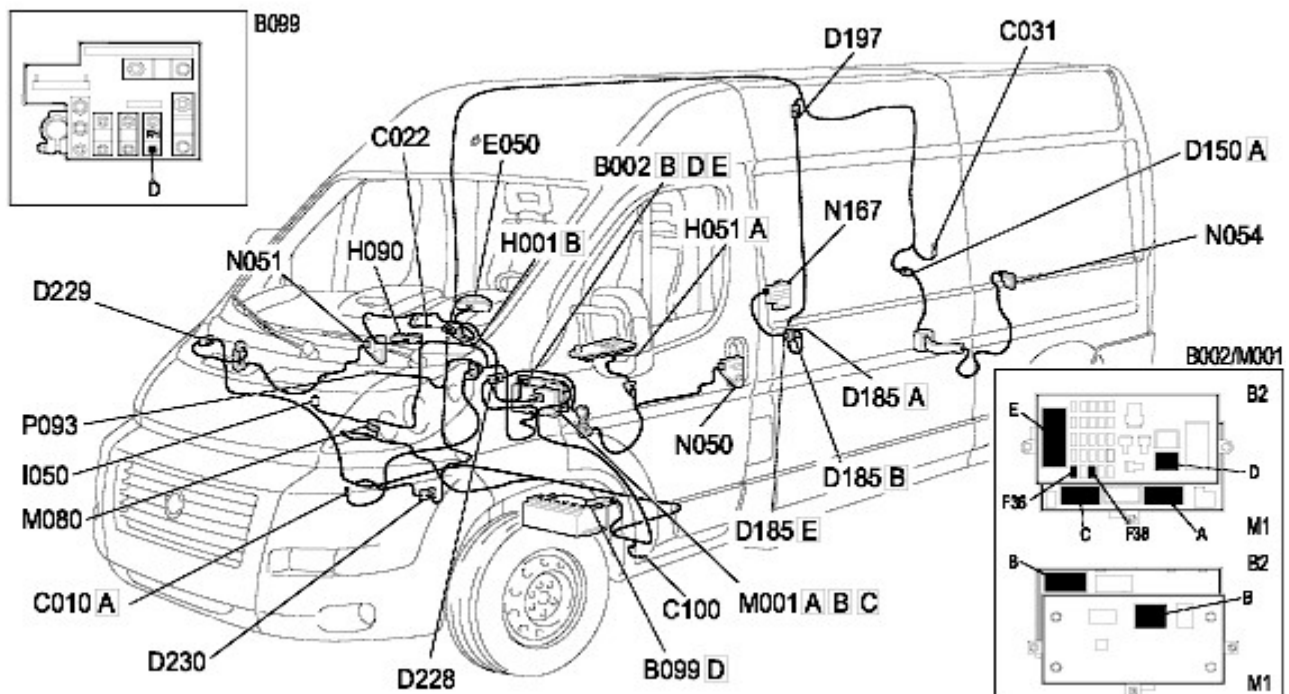
With reference to the assembly

Op. 5505A MULTI-FUNCTION COMPONENTS
Op. 5530B BATTERY AND LEADS

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D150	RIGHT REAR/RIGHT SWING DOOR COUPLING	-
D185	CONTACT BOARD ON SLIDING SIDE DOOR	Op. 7020C SLIDING SIDE DOOR
D197	RIGHT SLIDING SIDE DOOR COUPLING	-
D228	CAB/FRONT DRIVER'S DOOR COUPLING	-
D229	CAB/FRONT PASSENGER DOOR COUPLING	-
D230	RIGHT LONGITUDINAL/CAB COUPLING	-
E050	INSTRUMENT PANEL	Op. 5560B ANALOGUE CONTROL PANEL
H001	IGNITION SWITCH	Op. 5520A IGNITION SWITCH
H051	ELECTRIC WINDOWS AND REAR VIEW MIRROR CONTROLS ON DRIVER'S FRONT DOOR	Op. 7005M FRONT ELECTRIC WINDOWS
H090	SWITCH CONTROL PANEL	Op. 7040A PASSENGER COMPARTMENT TRIMS
I050	INERTIA SWITCH	Op. 1040A FUEL TANK AND COMPONENTS
M001	BODY COMPUTER	Op. 5505A MULTI-FUNCTION COMPONENTS
M080	CENTRAL DOOR LOCKING CONTROL UNIT	Op. 7005N FRONT DOOR CENTRAL LOCKING SYSTEM
N050	DRIVER'S FRONT DOOR LOCK GEARED MOTOR	Op. 7005N FRONT DOOR CENTRAL LOCKING SYSTEM
N051	RIGHT FRONT DOOR LOCK GEARED MOTOR	Op. 7005N FRONT DOOR CENTRAL LOCKING SYSTEM
N054	RIGHT REAR SWING DOOR LOCK GEARED MOTOR	Op. 7020F REAR SWING DOOR CLOSURE DEVICES
N167	RIGHT SLIDING SIDE DOOR LOCK GEARED MOTOR	Op. 7020D SLIDING SIDE DOOR CLOSURE DEVICES
P093	AERIAL FOR ALARM AND CENTRAL LOCKING RECEIVER	-

CENTRAL LOCKING - COMPONENT LOCATION



Component code	Description	With reference to the assembly
B002	JUNCTION UNIT UNDER DASHBOARD	Op. 5505A MULTI-FUNCTION COMPONENTS
B099	MAXI FUSE BOX ON BATTERY	Op. 5530B BATTERY AND LEADS
C010	LEFT FRONT EARTH	-
C022	Centre dashboard earth	-
C031	RIGHT REAR EARTH	-
C100	CAB EARTH	-
D150	RIGHT REAR/RIGHT SWING DOOR COUPLING	-
D185	CONTACT BOARD ON SLIDING SIDE DOOR	Op. 7020C SLIDING SIDE DOOR
D197	RIGHT SLIDING SIDE DOOR COUPLING	-
D228	CAB/FRONT DRIVER'S DOOR COUPLING	-
D229	CAB/FRONT PASSENGER DOOR COUPLING	-
D230	RIGHT LONGITUDINAL/CAB COUPLING	-
E050	INSTRUMENT PANEL	Op. 5560B ANALOGUE CONTROL PANEL
H001	IGNITION SWITCH	Op. 5520A IGNITION SWITCH
H051	ELECTRIC WINDOWS AND REAR VIEW MIRROR CONTROLS ON DRIVER'S FRONT DOOR	Op. 7005M FRONT ELECTRIC WINDOWS
H090	SWITCH CONTROL PANEL	Op. 7040A PASSENGER COMPARTMENT TRIMS
I050	INERTIA SWITCH	Op. 1040A FUEL TANK AND COMPONENTS
M001	BODY COMPUTER	Op. 5505A MULTI-FUNCTION COMPONENTS
M080	CENTRAL DOOR LOCKING CONTROL UNIT	Op. 7005N FRONT DOOR CENTRAL LOCKING SYSTEM
N050	DRIVER'S FRONT DOOR LOCK GEARED MOTOR	Op. 7005N FRONT DOOR CENTRAL LOCKING SYSTEM
N051	RIGHT FRONT DOOR LOCK GEARED MOTOR	Op. 7005N FRONT DOOR CENTRAL LOCKING SYSTEM
N054	RIGHT REAR SWING DOOR LOCK GEARED MOTOR	Op. 7020F REAR SWING DOOR CLOSURE DEVICES
N167	RIGHT SLIDING SIDE DOOR LOCK GEARED MOTOR	Op. 7020D SLIDING SIDE DOOR CLOSURE DEVICES
P093	AERIAL FOR ALARM AND CENTRAL LOCKING RECEIVER	-