



BLOCCAPORTE

191 - Giulietta

CENTRAL LOCKING - DESCRIPTION

The simultaneous operation of the door locks takes place via:

- the remote control;
- the key inserted in the pawl on the driver's door;
- the locking/unlocking button in the controls in the centre of the dashboard.

The remote control unit has 3 buttons that allow control of the central locking system: one button for unlocking the doors, one for locking the vehicle and one for releasing the boot

See descriptions 7005 PASSENGER COMPARTMENT FRONT SIDE DOORS

The door unlocking/locking management strategy is carried out by the Body Computer which controls the effective status of the locks by means of the signals that arrive from the switches in the locks themselves: in this way, the locking command is only carried out if the doors are properly shut and the locks unlocked; conversely, the unlocking command is only carried out if the locks are locked.

The locks are equipped with an additional motor for the dead lock function which allows the mechanical unlocking of the interior door opening handles so that it is no longer possible to open the door from the inside (for example, after a window has been broken during a theft attempt)

The dead lock function is activated at the time the doors are locked or by pressing the remote control twice.

An LED on the lock/release key emits the following signals:

- locking of the locks: the LED lights up for 3 seconds. If some of the doors are not properly shut at the time when the locks are locked, the LED flashes at 3 Hz for 3 seconds;
- dead lock activation: the LED flashes twice for 0.5 seconds;
- unlocking the locks: the LED goes out.

The instrument panel acquires the door status signal via the CAN and switches on the "doors open" warning light and, at the same time, the information is shown on the display; in addition, if one of the doors is open and the speed of the vehicle exceeds around 4 km/h, an acoustic warning is also emitted.

A special setup in the instrument panel can be used to activate or exclude the Autoclose function, i.e. automatic central locking whilst the vehicle is moving. This function allows the automatic locking of the doors to be activated when the speed exceeds 20 km/h.

The doors are automatically unlocked if the FPS is operated: the instrument panel receives an impact signal from the Air Bag control unit, switches on the warning light and notifies the Body Computer via the CAN.

All the door locking motors are protected by a dedicated fuse in the Body Computer.

CENTRAL LOCKING - FUNCTIONAL DESCRIPTION

The locking/unlocking of the doors function is controlled by the Body Computer M001.

The Body Computer M001 - connector A - receives a direct power supply from the battery through the line protected by maxi fuse F01 of the engine compartment junction unit B001.

The Body Computer M001 receives an ignition-operated power supply (INT) at pin 2 of connector G: this signal is used, amongst other things, to "wake up the network".

Pin 11 of connector G of M001 provides the Body Computer with a reference earth.

Body Computer M001 receives the following inputs:

- the lock/release signals from the aerial-receiver of remote control P093, which are connected to pins 30 and 15 of connector F of M001;
- the lock/release signals from the pawl and/or lever located in the driver's lock N050, at pin 53 of connector F of M001.
- the negative signal from the locking/unlocking button, located in control unit H090, at pin 1 of connector H of M001.

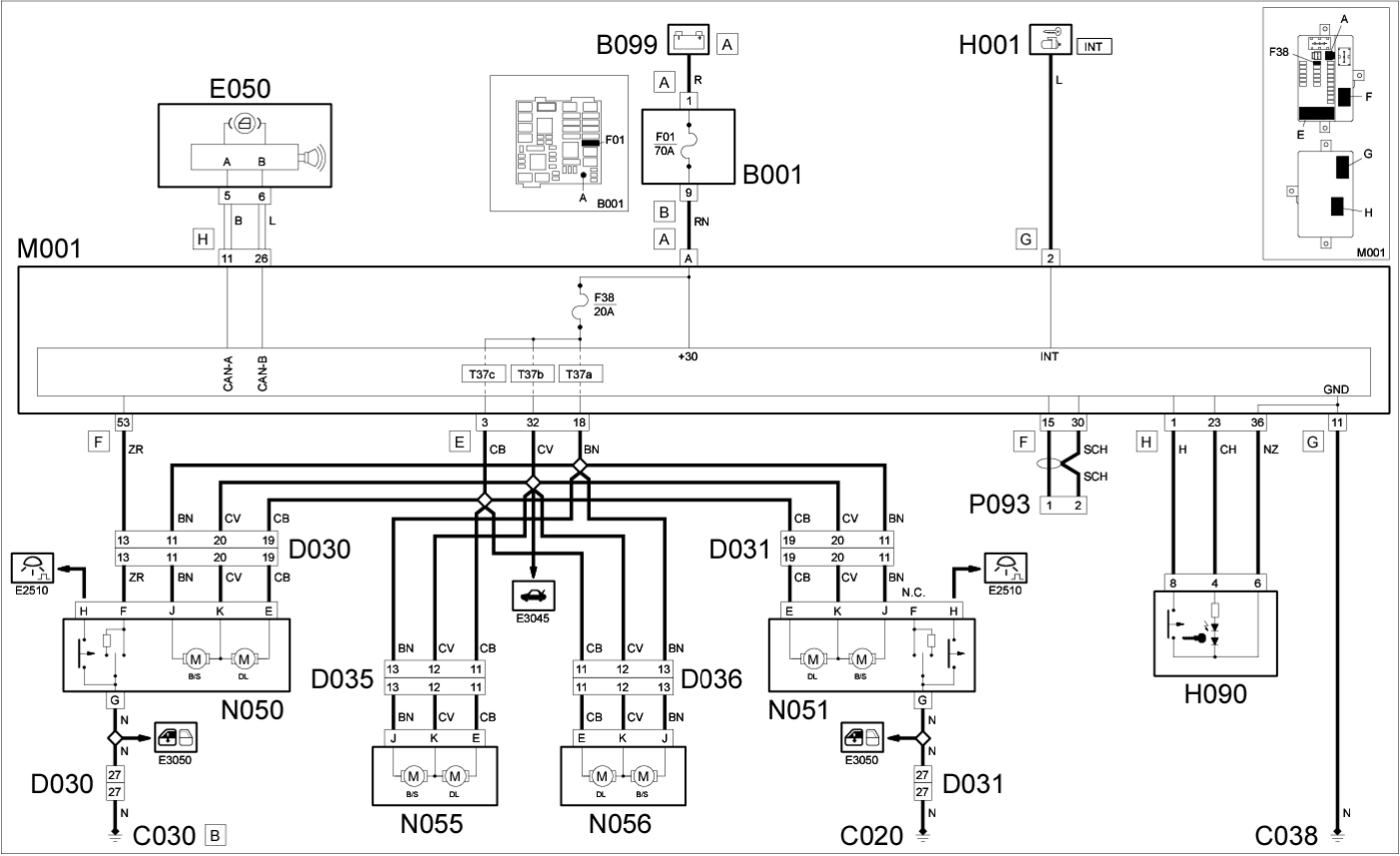
According to the control logic illustrated, the Body Computer M001 controls the two geared motors for the locks N050, N051, N055 and N056 via the line controlled by relays T37a, T37b and T37c and supplied by fuse F38 of the Body Computer M001:

- a shared power supply is sent to the motors from pin 32 of connector E;
- pin 18 of connector E operates the locking/unlocking motors (B/S);
- pin 3 of connector E operates the "Dead Lock" motors (DL).

The signalling LED located in the control unit H090 is lit by a signal from pin 23 of connector H of M001; the reference earth reaches pin 6 of H090 from pin 36 of connector H of M001.

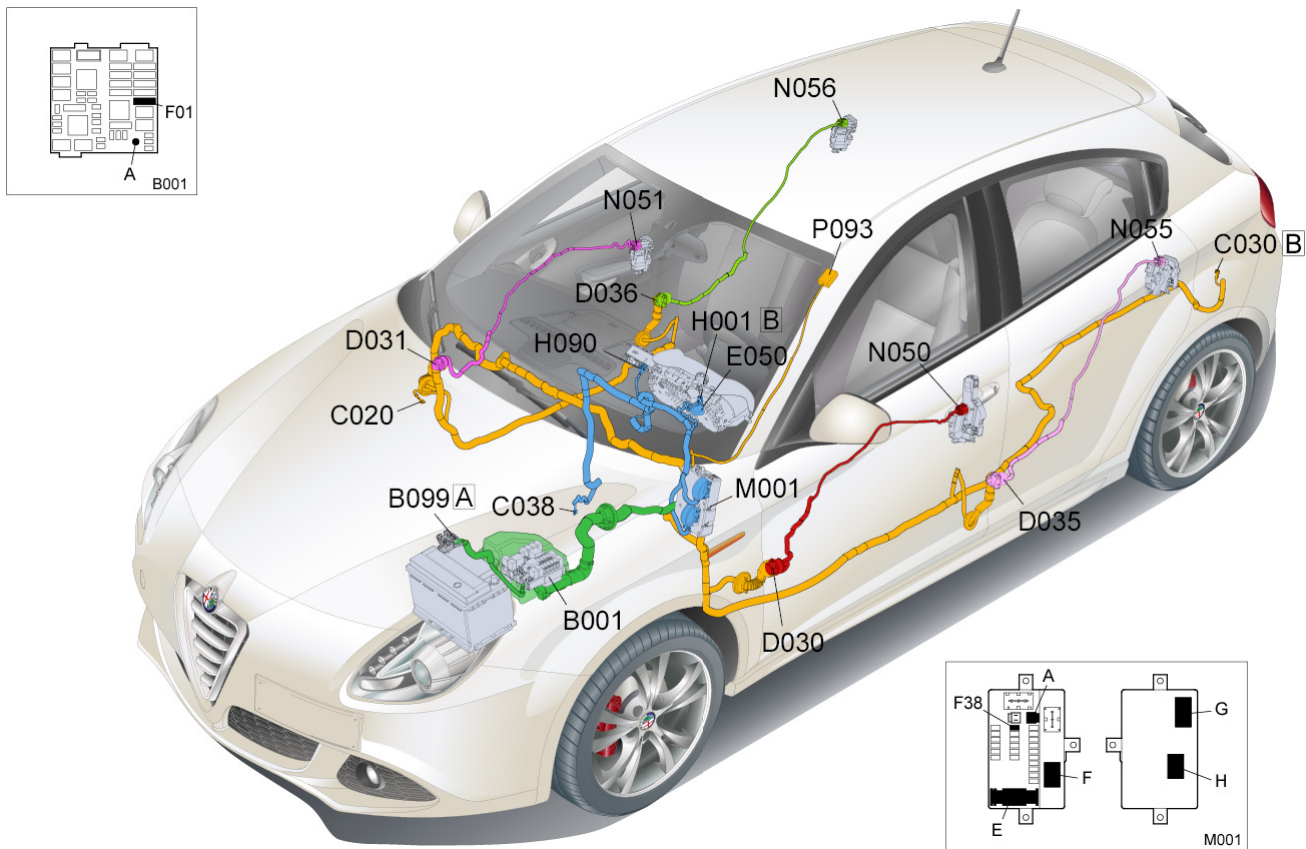
Body Computer M001 is connected via the CAN line to instrument panel E050, to which it sends a signal that switches on the "door open" warning light, where necessary, and activates the buzzer to give an acoustic signal.

CENTRAL LOCKING - WIRING DIAGRAM



Component Code	Description	Reference to the operation
B001	JUNCTION UNIT	Op. 5505A28 CONTAINER FOR ADDITIONAL JUNCTION UNIT IN ENGINE COMPARTMENT - R.R.
B099	MAXI FUSE BOX ON BATTERY	Op. 5530B40 SUPPLY BOX ON BATTERY (LINK BATTERY AND FUSE BOX) - R R
C020	PASSENGER SIDE DASHBOARD EARTH	-
C030	LEFT REAR EARTH	-
C038	EARTH ON CENTRE TUNNEL	-
D030	LEFT FRONT DOOR COUPLING	-
D031	RIGHT FRONT DOOR COUPLING	-
D035	LEFT REAR DOOR COUPLING	-
D036	RIGHT REAR DOOR COUPLING	-
E050	INSTRUMENT PANEL	Op. 5560B10 CONTROL PANEL - R+R
H001	IGNITION SWITCH	Op. 5520A18 IGNITION SWITCH CONTACT CARRIER LOCK BARREL - R.R.
H090	SWITCH CONTROL PANEL	Op. 7040A56 SWITCH UNIT IN DASHBOARD - R.R.
M001	BODY COMPUTER	Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
N050	DRIVER'S FRONT DOOR LOCK GEARED MOTOR	Op. 7005N20 FRONT SIDE DOOR LOCK MOTOR/CATCH ASSEMBLY, LEFT OR RIGHT - R.R WITH DOOR PANEL AND SUPPORT FRAME REMOVED
N051	RIGHT FRONT DOOR LOCK GEARED MOTOR	Op. 7005N20 FRONT SIDE DOOR LOCK MOTOR/CATCH ASSEMBLY, LEFT OR RIGHT - R.R WITH DOOR PANEL AND SUPPORT FRAME REMOVED
N055	LEFT REAR DOOR LOCK GEARED MOTOR	Op. 7010N20 REAR SIDE DOOR LOCK MOTOR/CATCH ASSEMBLY - R.R. WITH DOOR PANEL AND SUPPORT FRAME REMOVED
N056	RIGHT REAR DOOR LOCK GEARED MOTOR	Op. 7010N20 REAR SIDE DOOR LOCK MOTOR/CATCH ASSEMBLY - R.R. WITH DOOR PANEL AND SUPPORT FRAME REMOVED
P093	AERIAL FOR ALARM AND CENTRAL LOCKING RECEIVER	-

CENTRAL LOCKING - COMPONENT LOCATION



Component Code	Description	Reference to the operation
B001	JUNCTION UNIT	Op. 5505A28 CONTAINER FOR ADDITIONAL JUNCTION UNIT IN ENGINE COMPARTMENT - R.R.
B099	MAXI FUSE BOX ON BATTERY	Op. 5530B40 SUPPLY BOX ON BATTERY (LINK BATTERY AND FUSE BOX) - R R
C020	PASSENGER SIDE DASHBOARD EARTH	-
C030	LEFT REAR EARTH	-
C038	EARTH ON CENTRE TUNNEL	-
D030	LEFT FRONT DOOR COUPLING	-
D031	RIGHT FRONT DOOR COUPLING	-
D035	LEFT REAR DOOR COUPLING	-
D036	RIGHT REAR DOOR COUPLING	-
E050	INSTRUMENT PANEL	Op. 5560B10 CONTROL PANEL - R+R
H001	IGNITION SWITCH	Op. 5520A18 IGNITION SWITCH CONTACT CARRIER LOCK BARREL - R.R.
H090	SWITCH CONTROL PANEL	Op. 7040A56 SWITCH UNIT IN DASHBOARD - R.R.
M001	BODY COMPUTER	Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
N050	DRIVER'S FRONT DOOR LOCK GEARED MOTOR	Op. 7005N20 FRONT SIDE DOOR LOCK MOTOR/CATCH ASSEMBLY, LEFT OR RIGHT - R.R WITH DOOR PANEL AND SUPPORT FRAME REMOVED
N051	RIGHT FRONT DOOR LOCK GEARED MOTOR	Op. 7005N20 FRONT SIDE DOOR LOCK MOTOR/CATCH ASSEMBLY, LEFT OR RIGHT - R.R WITH DOOR PANEL AND SUPPORT FRAME REMOVED
N055	LEFT REAR DOOR LOCK GEARED MOTOR	Op. 7010N20 REAR SIDE DOOR LOCK MOTOR/CATCH ASSEMBLY - R.R. WITH DOOR PANEL AND SUPPORT FRAME REMOVED
N056	RIGHT REAR DOOR LOCK GEARED MOTOR	Op. 7010N20 REAR SIDE DOOR LOCK MOTOR/CATCH ASSEMBLY - R.R. WITH DOOR PANEL AND SUPPORT FRAME REMOVED
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