



## COURTESY LIGHTS

152 - Doblò Panorama

## COURTESY LIGHTS - DESCRIPTION

There are two types of front courtesy light according to the version:

- single-bulb, it can be switched on or off using the relevant switch or in a timed manner as described below;
- multi-bulb, two bulbs with control buttons: the buttons can be used to switch on the corresponding light directly or in a timed manner, as described below.



The following scheme shows the first option.

The two rear courtesy lights, located on the rear central crossmember and on the right side of the load compartment, have a single bulb which can be switched on or off using the relevant switch or in a timed manner.

The operation of the courtesy light is timed according to a logic managed by the Body Computer, in particular:

- when a front door is opened, the front courtesy light switches on for 3 minutes. The timer is reactivated each time a door is opened;
- when the front doors are closed, with the key in STOP position, the front courtesy light stays on for 10 seconds. This time is interrupted if the key is moved to the MAR position: in this case, the courtesy light is switched off immediately;
- when all the doors are closed with the key in MAR position, the courtesy light is immediately switched off;
- when the key is removed from the ignition switch, the front courtesy light switches on and a 10 second timer is activated;
- when a sliding side door (if present) and the rear swing doors of the load compartment are opened, the rear courtesy lights switch on for 3 minutes;
- when the sliding side doors (if present) and the rear swing doors of the load compartment are closed, with the key in STOP position, the rear courtesy lights stay on for 10 seconds;
- when the sliding side doors (if present) and the rear swing doors of the load compartment are closed, with the key in MAR position, the rear courtesy lights are immediately switched off;
- the courtesy lights are switched off immediately when there is a door locking command from the key or remote control;
- at the front door release command from the remote control, the front courtesy light is switched on and a 10 second timer is activated;
- at the rear swing door and sliding side door release command from the remote control, the rear courtesy lights are switched on and a 10 second timer is activated;
- if the FPS (Fire Prevention System) function is activated the courtesy lights switch on for 15 minutes.

The switching on and off of the courtesy lights take place gradually (dimmer) with a cycle lasting 2 seconds.

The power supply for the courtesy lights follows the battery voltage control logic ("SBMT"): the Body Computer continuously acquires the battery voltage signal and compares it with its own limit value.

In Key-Off conditions, when one of the doors or the rear swing doors of the load compartment are opened, a maximum timed period of 15 minutes is set; all the lights are deactivated after this delay period to preserve the battery charge.

## COURTESY LIGHTS - FUNCTIONAL DESCRIPTION

The timed switching on of the front courtesy light G010 is managed by the Body Computer M001 which receives negative "door open" input signals respectively:

- at pin 54 of connector B (driver's front door, by the contact inside the geared motor N050 - pin 5 -);
- at pin 53 of connector B (passenger front door, by the contact inside the geared motor N051 - pin 5 -).

The timed switching on of the rear central G020 and right G026 courtesy lights is managed by the Body Computer M001 which receives negative "door open" input signals respectively:

- at pin 40 of connector F (left sliding side door, through the contact for the switch on the left central pillar I135 - pin 1 -);
- at pin 56 of connector F (right sliding side door, through the contact for the switch on the right central pillar I136 - pin 1 -);
- at pin 39 of connector F (rear left swing door of the load compartment, through the contact inside the swing door lock geared motor N052 - pin 5 -).

Both the front G010 and the rear central G020 and right G026 courtesy lights are supplied (pin 2) by the line protected by fuse F32 of the Body Computer M001, from pins 13, 26 and 27 of connector F respectively.

The front courtesy light G010 is connected, via pin 1, to the driver's side dashboard earth C015 (connector D) and, via pin 3, to pin 9 of connector F of the Body Computer M001, which provides a suitable negative signal for the timed/dimmed switching on/off.

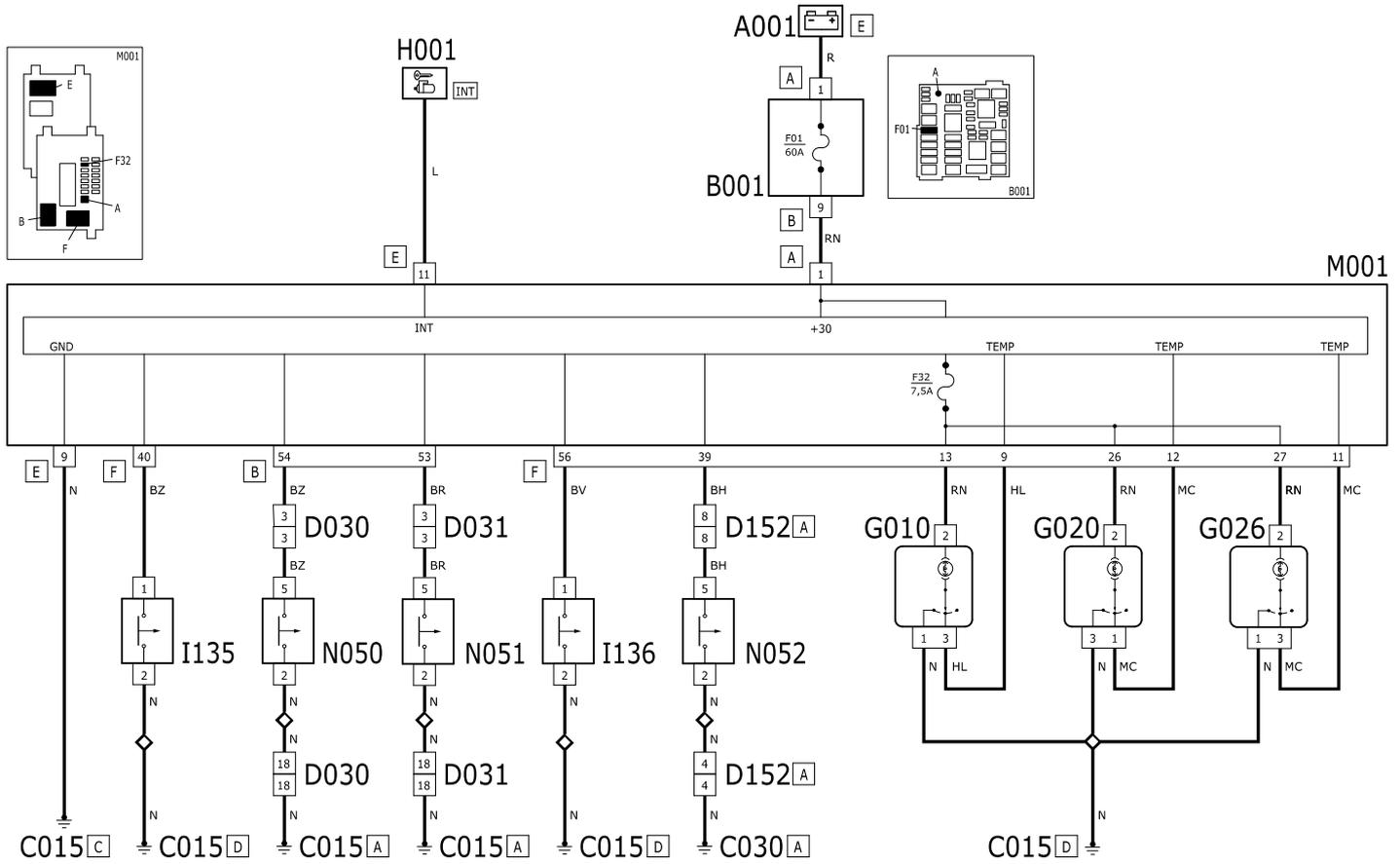
The rear central courtesy light G020 is connected, via pin 3, to the driver's side dashboard earth C015 (connector D) and, via pin 1, to pin 12 of connector F of the Body Computer M001, which provides a suitable negative signal for the timed/dimmed switching on/off.

The rear right courtesy light G026 is connected, via pin 1, to the driver's side dashboard earth C015 (connector D) and, via pin 3, to pin 11 of connector F of the Body Computer M001, which provides a suitable negative signal for the timed/dimmed switching on/off.

Body Computer M001 receives a direct battery power supply (pin 1 of connector A) protected by fuse F01 of engine compartment junction unit B001 (pin 9 of connector B). It also receives an ignition-operated power supply (INT) at pin 11 of connector E.

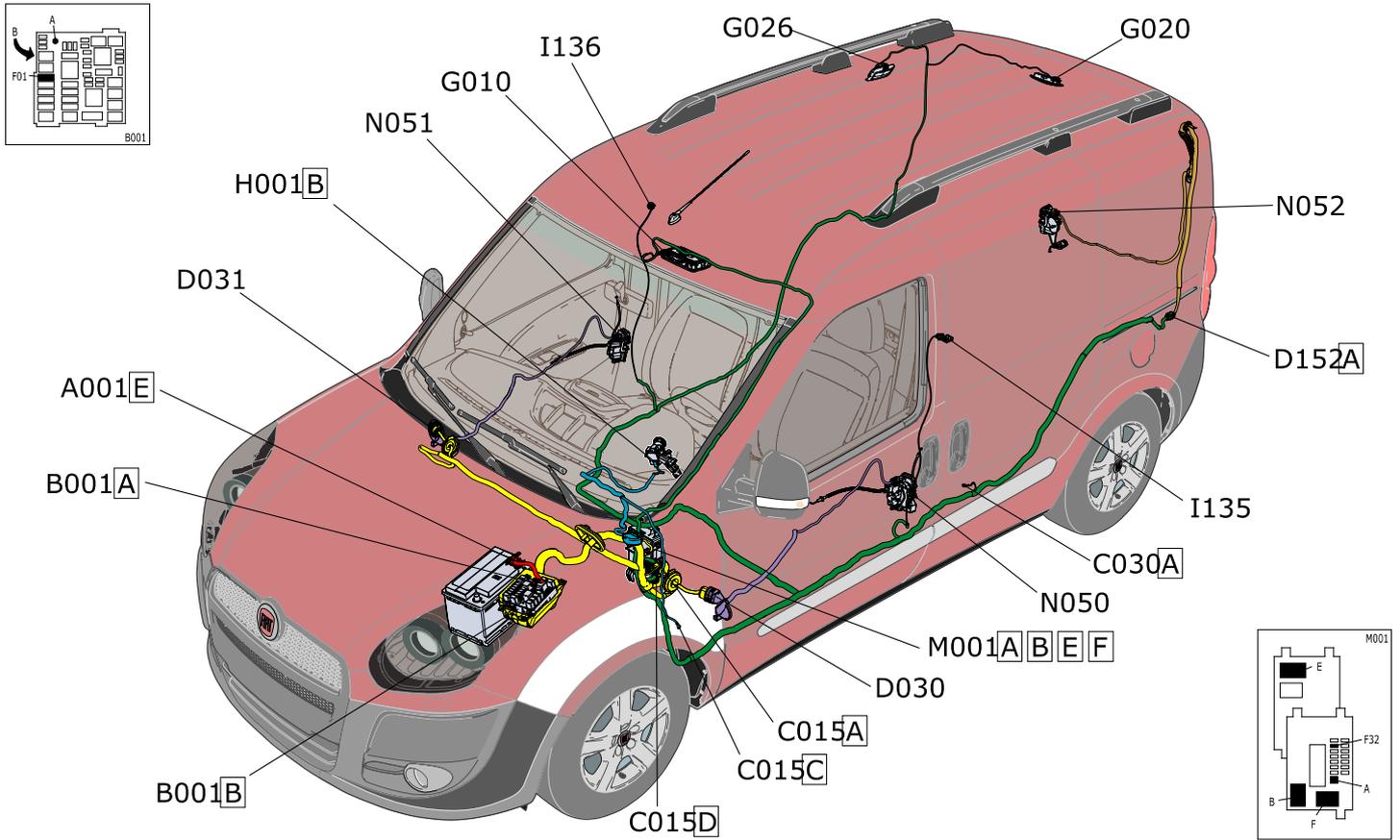
Body Computer M001 is also connected to driver's side dashboard earth C015 (connector C) via pin 9 of connector E.

# COURTESY LIGHTS - WIRING DIAGRAM



Component code	Description	Reference to the Operation
A001	BATTERY	Op. 5530B10 BATTERY - R+R
B001	JUNCTION UNIT	-
C015	DASHBOARD EARTH, DRIVER'S SIDE	-
C030	LEFT REAR EARTH	-
D030	LEFT FRONT DOOR COUPLING	-
D031	RIGHT FRONT DOOR COUPLING	-
D152	LEFT REAR/LEFT SWING DOOR COUPLING	-
G010	FRONT COURTESY LIGHT	Op. 7040E10 FRONT COURTESY LIGHT - R+R
G010	FRONT COURTESY LIGHT	Op. 7040E50 FRONT MODULAR COURTESY LIGHT UNIT - R+R
G020	REAR (CENTRE) COURTESY LIGHT	Op. 7040G46 LOAD COMPARTMENT COURTESY LIGHT - R.R.
G026	RIGHT REAR COURTESY LIGHT	Op. 7040G46 LOAD COMPARTMENT COURTESY LIGHT - R.R.
H001	IGNITION SWITCH	Op. 5520A10 IGNITION SWITCH ASSEMBLY - R+R
I135	LEFT SLIDING SIDE DOOR OPENING SWITCH ON LEFT CENTRE PILLAR	Op. 7040E68 COURTESY LIGHT SWITCH (ONE) ON REAR DOOR COMPARTMENT - R+R
I136	RIGHT SLIDING SIDE DOOR OPENING SWITCH ON RIGHT CENTRE PILLAR	Op. 7040E68 COURTESY LIGHT SWITCH (ONE) ON REAR DOOR COMPARTMENT - R+R
M001	BODY COMPUTER	Op. 5505A32 BODY COMPUTER - R.R.
N050	DRIVER'S FRONT DOOR LOCK GEARED MOTOR	Op. 7005N21 FRONT SIDE DOOR LOCK MOTOR/LOCK ASSEMBLY FOR ONE DOOR, LEFT OR RIGHT - R.R.
N051	RIGHT FRONT DOOR LOCK GEARED MOTOR	Op. 7005N21 FRONT SIDE DOOR LOCK MOTOR/LOCK ASSEMBLY FOR ONE DOOR, LEFT OR RIGHT - R.R.
N052	REAR DOOR LOCK GEARED MOTOR	Op. 7020P20 REAR SWING DOOR CENTRAL LOCKING MOTOR/LOCK ASSEMBLY - R.R. WITH DOOR PANEL REMOVED

# COURTESY LIGHTS - COMPONENT LOCATION



Component code	Description	Reference to the Operation
A001	BATTERY	Op. 5530B10 BATTERY - R+R
B001	JUNCTION UNIT	-
C015	DASHBOARD EARTH, DRIVER'S SIDE	-
C030	LEFT REAR EARTH	-
D030	LEFT FRONT DOOR COUPLING	-
D031	RIGHT FRONT DOOR COUPLING	-
D152	LEFT REAR/LEFT SWING DOOR COUPLING	-
G010	FRONT COURTESY LIGHT	Op. 7040E10 FRONT COURTESY LIGHT - R+R
G010	FRONT COURTESY LIGHT	Op. 7040E50 FRONT MODULAR COURTESY LIGHT UNIT - R+R
G020	REAR (CENTRE) COURTESY LIGHT	Op. 7040G46 LOAD COMPARTMENT COURTESY LIGHT - R.R.
G026	RIGHT REAR COURTESY LIGHT	Op. 7040G46 LOAD COMPARTMENT COURTESY LIGHT - R.R.
H001	IGNITION SWITCH	Op. 5520A10 IGNITION SWITCH ASSEMBLY - R+R
I135	LEFT SLIDING SIDE DOOR OPENING SWITCH ON LEFT CENTRE PILLAR	Op. 7040E68 COURTESY LIGHT SWITCH (ONE) ON REAR DOOR COMPARTMENT - R+R
I136	RIGHT SLIDING SIDE DOOR OPENING SWITCH ON RIGHT CENTRE PILLAR	Op. 7040E68 COURTESY LIGHT SWITCH (ONE) ON REAR DOOR COMPARTMENT - R+R
M001	BODY COMPUTER	Op. 5505A32 BODY COMPUTER - R.R
N050	DRIVER'S FRONT DOOR LOCK GEARED MOTOR	Op. 7005N21 FRONT SIDE DOOR LOCK MOTOR/LOCK ASSEMBLY FOR ONE DOOR, LEFT OR RIGHT - R.R.
N051	RIGHT FRONT DOOR LOCK GEARED MOTOR	Op. 7005N21 FRONT SIDE DOOR LOCK MOTOR/LOCK ASSEMBLY FOR ONE DOOR, LEFT OR RIGHT - R.R.
N052	REAR DOOR LOCK GEARED MOTOR	Op. 7020P20 REAR SWING DOOR CENTRAL LOCKING MOTOR/LOCK ASSEMBLY - R.R. WITH DOOR PANEL REMOVED