




LUCI POSIZIONE / TARGA

191 - Giulietta

## SIDE LIGHTS/NUMBER PLATE LIGHTS - DESCRIPTION

With the key in the ON position and the ring nut in position "O" the daytime lights switch on automatically; the other lights and the interior lighting remain off.

 The automatic switching on of the daytime lights can be activated/deactivated using the Setup Menu in the instrument panel; if the daytime lights are deactivated, none of the lights come on with the ring nut in position O.

The side lights / front daytime lights are built into the headlamp and consist of LED circuits.

The rear side lights are located in the rear side light clusters - both on the fixed and the mobile part of the tailgate - and also consist of LED circuits.

With the ignition in the ON position, when the ring nut is turned forwards the dipped beam headlights are activated, the daytime lights switch off and the side lights, dipped beam headlights and number plate lights are switched on.

The side lights warning light in the instrument panel lights up.

The parking lights function (PARKING) makes it possible to switch on the side lights and the number plate lights with the ignition on STOP, to signal the presence of the vehicle whilst it is parked.

With the ignition key in the STOP position or extracted, all the side lights and number plate lights switch on when the ring nut is turned forwards. The side lights warning light in the instrument panel switches on.

The function is deactivated by moving the steering column stalk lights ring nut to the OFF position or at Key ON. This last operation resets the function and the Body Computer controls the lights depending on the command selected using the steering column stalk ring nut.

The "Follow me home" function allows the dipped beam headlights and the side lights to remain on even after the engine has been switched off (key in STOP position or extracted) for a period of 30 seconds or multiples thereof. The side lights warning light in the instrument panel signals that the lights have remained on.

It is engaged using the lever in the same way as for activating the flasher within 2 minutes of the ignition being turned to STOP: each time the lever is operated, the period for which the lights are on is increased by 30 seconds to a maximum of 210 seconds.

The function is excluded if the ignition is turned to MAR or if the flasher lever is operated for more than 2 seconds.

At Key OFF the "Exterior courtesy lights" function switches on the dipped beam headlights, the rear side lights and the number plate lights.

The lights remain lit for approximately 25 seconds unless the doors and boot are locked again with the remote control or the doors or boot are opened and reclosed.

In this case, within 5 seconds the rear side lights and the number plate lights for a limited time when the doors or the tailgate are unlocked using the remote control.

The "Exterior courtesy lights" function can be activated or deactivated using the setup menu in the instrument panel.

The switching on of the side lights is managed by the Body Computer.

The number plate light and numerous other interior lights for lighting the passenger compartment, instruments and controls are activated together with the side lights (these are described and explained in the wiring diagrams for the relevant components), in particular:

See E2535 CONTROL LIGHTS

Activation and/or deactivation information is sent via the CAN: in this way, the side lights warning light in the instrument panel is also activated. The instrument panel also activates the night lighting for the icons.

On some versions, the side lights are also activated automatically by the dusk sensor.

This sensor, located on the windscreen under the interior rear view mirror, detects the variations in outside brightness depending on the light setting: the greater the sensitivity, the less external light is required to activate the exterior lights.

The setting of the dusk sensor can be adjusted using the instrument panel setup menu.

When the ring nut is turned in the opposite direction (AUTO position) the side lights and the dipped beam headlights automatically switch on simultaneously depending on the exterior brightness.

The headlights can only be flashed with the sensor on.

The main beam headlights will switch off followed after approximately 10 seconds by the side/taillights, when the sensor is deactivated.

The correct operation of the lights is checked by the daytime lights, side lights and number plate lights "check" function: the following is checked for each of the circuits:

- open circuit or missing bulb
- short circuit to earth (bulb s.c. or wiring s.c. to earth)
- short circuit to battery voltage (wiring short circuited to Vbatt)

When one of the situations described above is verified, the Body Computer makes the failure status available to the CAN: a special "lights failure" warning light comes on in the instrument panel and, at the same time, the information is shown in the display

## SIDE LIGHTS/NUMBER PLATE LIGHT - FUNCTIONAL DESCRIPTION

There is a single (earth) signal sent by the steering column stalk H005 to the Body Computer M001 that manages both the side lights and the dipped beam headlights: from pin 3 of H005 to pin 42 of connector H of M001; the signal sent is coded by means of resistive dividers so that multiple information can be sent by the steering column stalk to the Body Computer via a single connection.

The reference earth reaches pin 10 of H005 from pin 45 of connector H of 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.

The right headlamp F010 acts as a Master: it receives the signals from the Body Computer, controls "its own" bulbs and sends the signals to the left headlamp, acting as a Slave.


The Body Computer M001 controls the power supply for the daytime lights and the side lights in the headlamps F010 (left) and F011 (right) from pin 30 of connector D.

From pins 33 and 1 of connector D of M001 it controls the front left and right light supply.

The feedback signals for the management of the electronic device are sent to pin 35 of connector D of M001.

The Body Computer M001 controls the power supply for the fixed rear side lights F030 (left) and F031 (right) from pins 47 and 17 of connector F and for the mobile lights F035 (left) and F036 (right) from pins 2 and 32 of connector F.

It also controls the number plate lights F050 and F051 from pin 6 of connector F of M001.

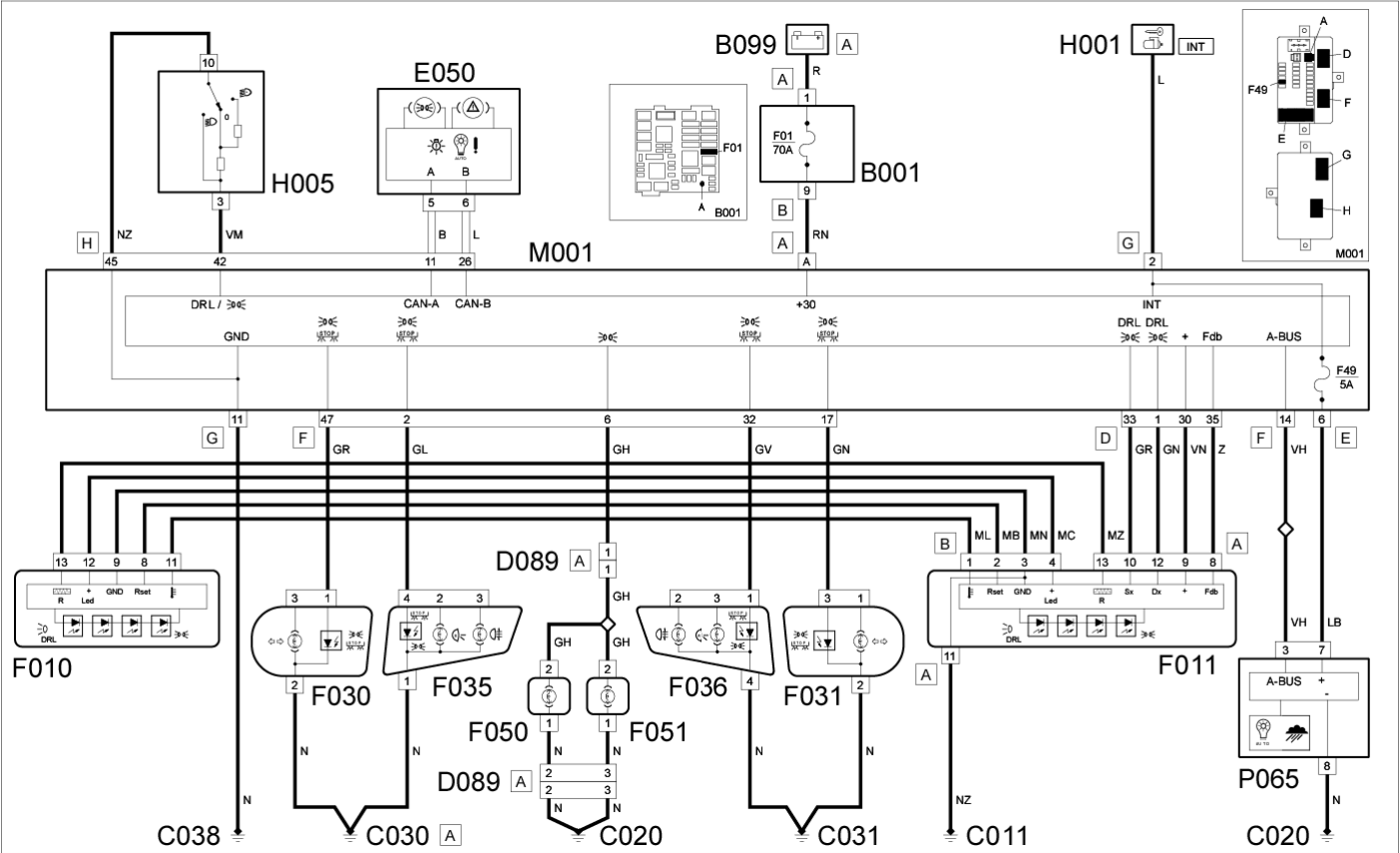
 The controls for the rear LED side lights are the same which are used to switch on the brake lights: the signal is only modulated in a different way so that the light intensity changes.

Via the CAN line, the Body Computer M001 is connected to instrument panel E050 to manage the "side lights on" warning light and, if faults are detected in the circuit or in the bulbs, the "lights failure" warning light; in the event of a fault with the dusk sensor there is a specific signal.

The side lights are also activated if the dusk sensor is present in the rear view mirror P065 (A-BUS signal from pin 14 of connector F of M001).

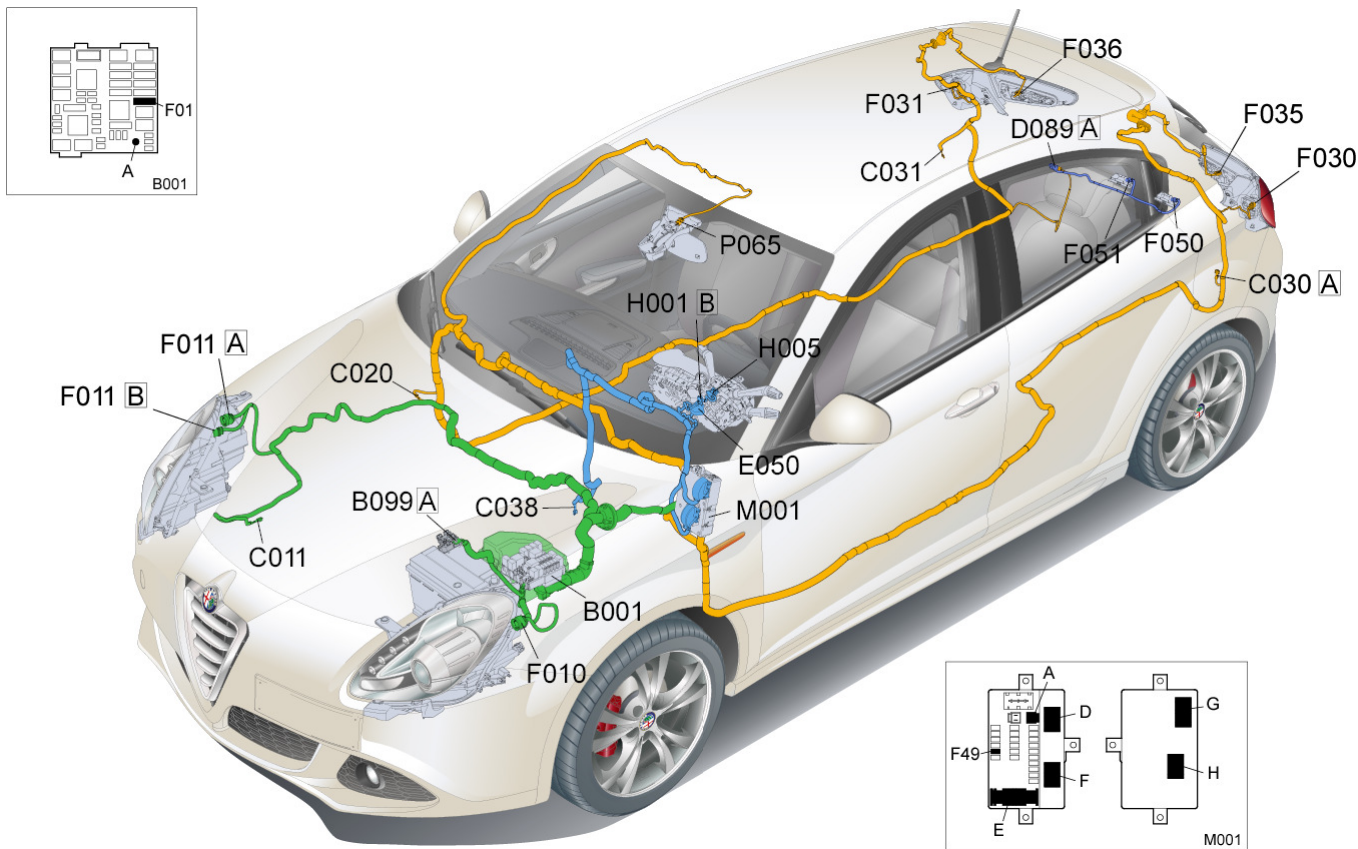
The dusk sensor located in P065 is supplied by the INT line protected by fuse F49 of M001.

SIDE LIGHTS/NUMBER PLATE LIGHT - 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
C011	RIGHT FRONT EARTH	-
C020	PASSENGER SIDE DASHBOARD EARTH	-
C030	LEFT REAR EARTH	-
C031	RIGHT REAR EARTH	-
C038	EARTH ON CENTRE TUNNEL	-
D089	PARKING SENSOR COUPLING	-
E050	INSTRUMENT PANEL	Op. 5560B10 CONTROL PANEL - R+R
F010	LEFT HEADLIGHT	Op. 5540B07 LEFT FRONT HEADLAMP - R.R.
F011	RIGHT HEADLIGHT	Op. 5540B08 RIGHT FRONT HEADLAMP - R.R.
F030	LEFT REAR LIGHT CLUSTER	Op. 5540A58 OUTER REAR LIGHT CLUSTER WITH DIRECTION INDICATOR INCORPORATED (ONE), LEFT OR RIGHT - R.R.
F031	RIGHT REAR LIGHT CLUSTER	Op. 5540A58 OUTER REAR LIGHT CLUSTER WITH DIRECTION INDICATOR INCORPORATED (ONE), LEFT OR RIGHT - R.R.
F035	LEFT REAR LIGHT CLUSTER (MOVING SECTION ON BOOT)	Op. 5540A68 INTERIOR REAR LIGHT (ONE), LEFT OR RIGHT - R.R.
F036	RIGHT REAR LIGHT CLUSTER (MOVING SECTION ON BOOT LID)	Op. 5540A68 INTERIOR REAR LIGHT (ONE), LEFT OR RIGHT - R.R.
F050	LEFT NUMBER PLATE LIGHT	Op. 5540A94 (ONE) NUMBER PLATE LIGHT - R.R.
F051	RIGHT NUMBER PLATE LIGHT	Op. 5540A94 (ONE) NUMBER PLATE LIGHT - R.R.
H001	IGNITION SWITCH	Op. 5520A18 IGNITION SWITCH CONTACT CARRIER LOCK BARREL - R.R.
H005	STEERING COLUMN SWITCH UNIT	Op. 5550A10 STALK UNIT ASSEMBLY - R+R
M001	BODY COMPUTER	Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
P065	ELECTRO-CHROMIC INTERIOR REAR VIEW MIRROR	Op. 7065C60 INTERIOR REAR VIEW MIRROR FOR VERSIONS WITH RAIN/DUSK SENSOR - R.R.

SIDE LIGHTS/NUMBER PLATE LIGHT - 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
C011	RIGHT FRONT EARTH	-
C020	PASSENGER SIDE DASHBOARD EARTH	-
C030	LEFT REAR EARTH	-
C031	RIGHT REAR EARTH	-
C038	EARTH ON CENTRE TUNNEL	-
D089	PARKING SENSOR COUPLING	-
E050	INSTRUMENT PANEL	Op. 5560B10 CONTROL PANEL - R+R
F010	LEFT HEADLIGHT	Op. 5540B07 LEFT FRONT HEADLAMP - R.R.
F011	RIGHT HEADLIGHT	Op. 5540B08 RIGHT FRONT HEADLAMP - R.R.
F030	LEFT REAR LIGHT CLUSTER	Op. 5540A58 OUTER REAR LIGHT CLUSTER WITH DIRECTION INDICATOR INCORPORATED (ONE), LEFT OR RIGHT - R.R.
F031	RIGHT REAR LIGHT CLUSTER	Op. 5540A58 OUTER REAR LIGHT CLUSTER WITH DIRECTION INDICATOR INCORPORATED (ONE), LEFT OR RIGHT - R.R.
F035	LEFT REAR LIGHT CLUSTER (MOVING SECTION ON BOOT)	Op. 5540A68 INTERIOR REAR LIGHT (ONE), LEFT OR RIGHT - R.R.
F036	RIGHT REAR LIGHT CLUSTER (MOVING SECTION ON BOOT LID)	Op. 5540A68 INTERIOR REAR LIGHT (ONE), LEFT OR RIGHT - R.R.
F050	LEFT NUMBER PLATE LIGHT	Op. 5540A94 (ONE) NUMBER PLATE LIGHT - R.R.
F051	RIGHT NUMBER PLATE LIGHT	Op. 5540A94 (ONE) NUMBER PLATE LIGHT - R.R.
H001	IGNITION SWITCH	Op. 5520A18 IGNITION SWITCH CONTACT CARRIER LOCK BARREL - R.R.
H005	STEERING COLUMN SWITCH UNIT	Op. 5550A10 STALK UNIT ASSEMBLY - R+R
M001	BODY COMPUTER	Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
P065	ELECTRO-CHROMIC INTERIOR REAR VIEW MIRROR	Op. 7065C60 INTERIOR REAR VIEW MIRROR FOR VERSIONS WITH RAIN/DUSK SENSOR - R.R.