eLEARN

NAVIGATORE

191 - Giulietta

NAVIGATOR - DESCRIPTION

The RADIONAV radio navigation system incorporates the radio and CD Audio and CD MP3 player

See E3510 RADIO

The navigation system is equipped with:

- SD card reader

- GPS module

- independent navigation module with maps

- "pop-up" colour display on the top of the dashboard

- interface with the controls on the steering wheel

The radio navigator is supplied (always with key at MAR-ON): - using the ON/OFF button on the front panel; - using the opening/closing button on the display. In both cases, the pop-up display follows the radio navigator activation status, opening automatically.

On the version described here, the RADIONAV system is combined with the "basic" radio and therefore there is no telephone management.

On other versions the RADIONAV may also be combined with the Blue&ME system: in this case the RADIONAV manages the navigation and the Blue&Me manages the Media Player and Telephone functions

See E3570 INTEGRATED RADIO PHONE

The navigation system with road maps makes it possible to determine the position of the vehicle on the map at any time (for both urban and extra-urban/motorway road networks) showing it on the radio navigator display.

In this way the driver is guided step-by-step to the required destination, by means of voice messages and visual information. The system also provides additional information for reaching general services, namely: hotels, car parks, restaurants, pharmacies, service stations, hospitals, ALFA ROMEO workshops, railway stations, airports, etc.

The navigation system uses GPS (Global Positioning System) satellite location technology and is inside the radio navigation unit.

The navigation maps are on a special SD card.

The GPS consists of an aerial that allows the vehicle to be GPS satellite-located: the aerial is connected to a receiver located in the integrated unit by means of a special shielded cable.

The stylus aerial is fitted at the rear of the roof: it performs two functions (radio and GPS) because it also incorporates the radio aerial (FM1).

Vehicle position is identified by analysing GPS data together with speedometer and reverse gear signals received from the vehicle.

The radio navigation unit is a CAN node through which information is exchanged with the Body Computer and with the other electronic units.

In the Start&Stop versions, the radio navigator supply is controlled by a voltage stabiliser, fitted under the dashboard behind the glove compartment. It maintains a constant voltage for devices sensitive to voltage drops during engine start-up.

NAVIGATOR - FUNCTIONAL DESCRIPTION

The radio navigator P020 receives a direct supply from the battery (12 of connector A) through the line for fuse F36 of the Body Computer M001; this line is controlled by the voltage stabiliser M192 - input at pin 8, output from pin 1.

Pin 16 of connector A is earthed.

Pins 10 and 13 of connector A are connected to the CAN line by which the radio navigator P020 is connected to the Body Computer M001 and the other system nodes.

The Body Computer M001 is connected to the radio controls on the steering wheel through the clock spring D047: pin 53 of connector H provides the reference earth at pin 6 of D047; pin 51 of connector H of M001 receives the signals from the buttons to the right of the steering wheel, whilst pin 38 of connector H of M001 receives the signals from the buttons to the left of the steering wheel.

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 control 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 GPS P25c aerial is on the stylus aerial on the roof (which manages the FM1 function as well) and is connected to the radio navigator by the relevant coaxial cable.

The motorised display on the upper part of the dashboard E065 is supplied (pin 3) by the line protected by fuse F89 located in the Body Computer M001 - pin 8 of connector E.

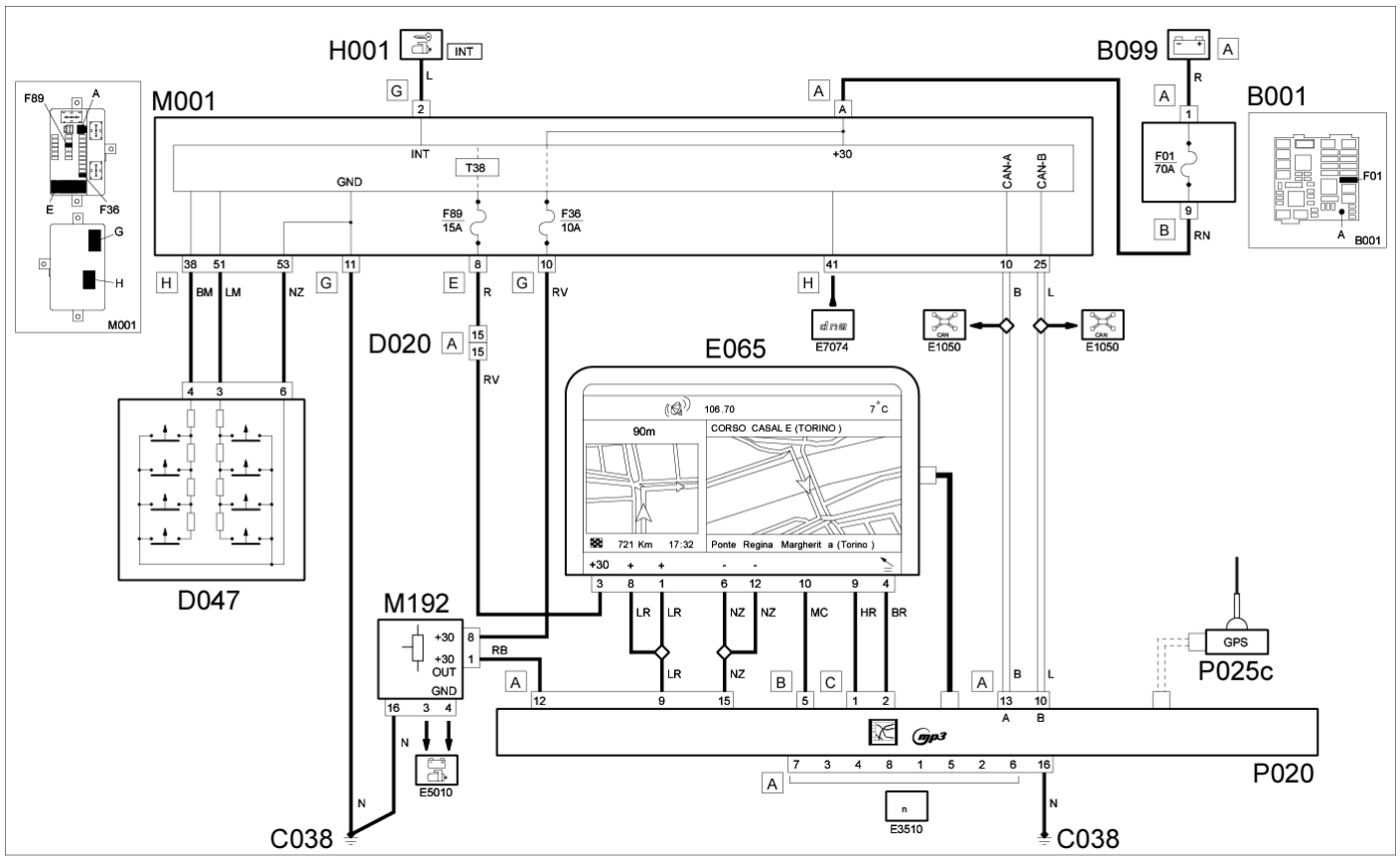
The radio navigator P020 enablement power supply is sent to pins 1 and 8. The earth reference is sent to the pins 6 and 12.

Pin 4 receives the opening control, while the "open panel" feedback is sent from pin 9.

Pin 10 receives the signal for the backlighting of the display E065.

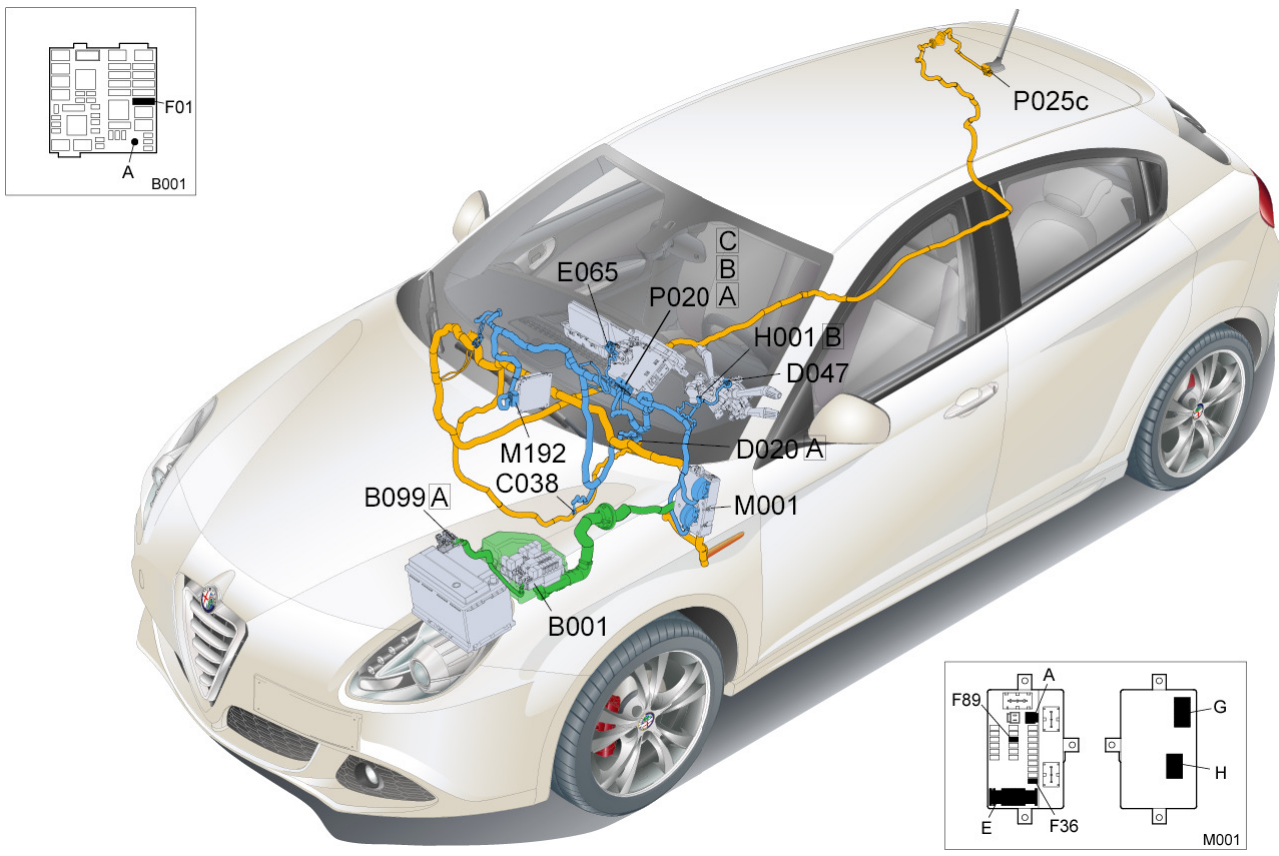
 A special multipolar cable connects the radio navigator P020 to the display E065.

NAVIGATOR - WIRING DIAGRAM



Component Code	Name	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
C038	EARTH ON CENTRE TUNNEL	-
D020	DASHBOARD/REAR COUPLING	-
D047	CLOCK SPRING COUPLING	Op. 5550A10 STALK UNIT ASSEMBLY - R+R
E065	NAVIGATION SYSTEM DISPLAY	Op. 5580M25 RADIO NAVIGATOR DISPLAY - R.R.
H001	IGNITION SWITCH	Op. 5520A18 IGNITION SWITCH CONTACT CARRIER LOCK BARREL - R.R.
M001	BODY COMPUTER	Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
M192	ALARM CONTROL UNIT	Op. 5520D03 VOLTAGE STABILIZER - R.R.
P020	CAR RADIO	Op. 5580M24 RADIO NAVIGATOR - R.R.
P025	AERIAL POWER SUPPLY	Op. 5570T27 AERIAL SUPPORT - R.R

NAVIGATOR - COMPONENT LOCATION



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