



CODE

191 - Giulietta

CODE - DESCRIPTION

To increase protection against theft attempts, an engine immobiliser system known as ALFA ROMEO CODE is used.

The CODE system only allows the engine to be started by means of the engine management control unit after a password, memorised previously, is received.

The code used in the dialogue, that takes place via an aerial coaxial to the ignition switch, varies each time the engine is started (rolling code): therefore the code cannot be reproduced even using electronic scanners.

The Code system control unit is incorporated in the Body Computer and also includes:

- C CAN line for dialogue with the Body Computer and the engine management control unit;
- remote control containing a transponder with a password;
- an aerial that reads the code contained in the transponder;
- engine management control unit.

The CODE allows the start of the engine management by the engine management control unit by means of a coded dialogue between the Body Computer and the engine management control unit during the stage prior to starting.

After the key is turned to the ON position, the engine control unit sends a code request to the Body Computer which only responds after having recognised (through the aerial) a known transponder in the ignition switch.

If the secret code in the reply is valid, the engine management control unit continues with the regular engine management activities, allowing the engine to be started.

If the transponder is not recognised, engine start-up is inhibited.

Operation of the CODE is guaranteed if any of the other Body Computer functions are not working correctly.

The function involves the display of the status through the "vehicle protection system" warning light in the instrument panel and connected via the CAN switching on.

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See descriptions 5580E ANTI-THEFT DEVICE

CODE - FUNCTIONAL DESCRIPTION

The CODE unit is located inside the Body Computer M001 and receives a direct supply - connector A - from the battery via the line protected by maxifuse 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".

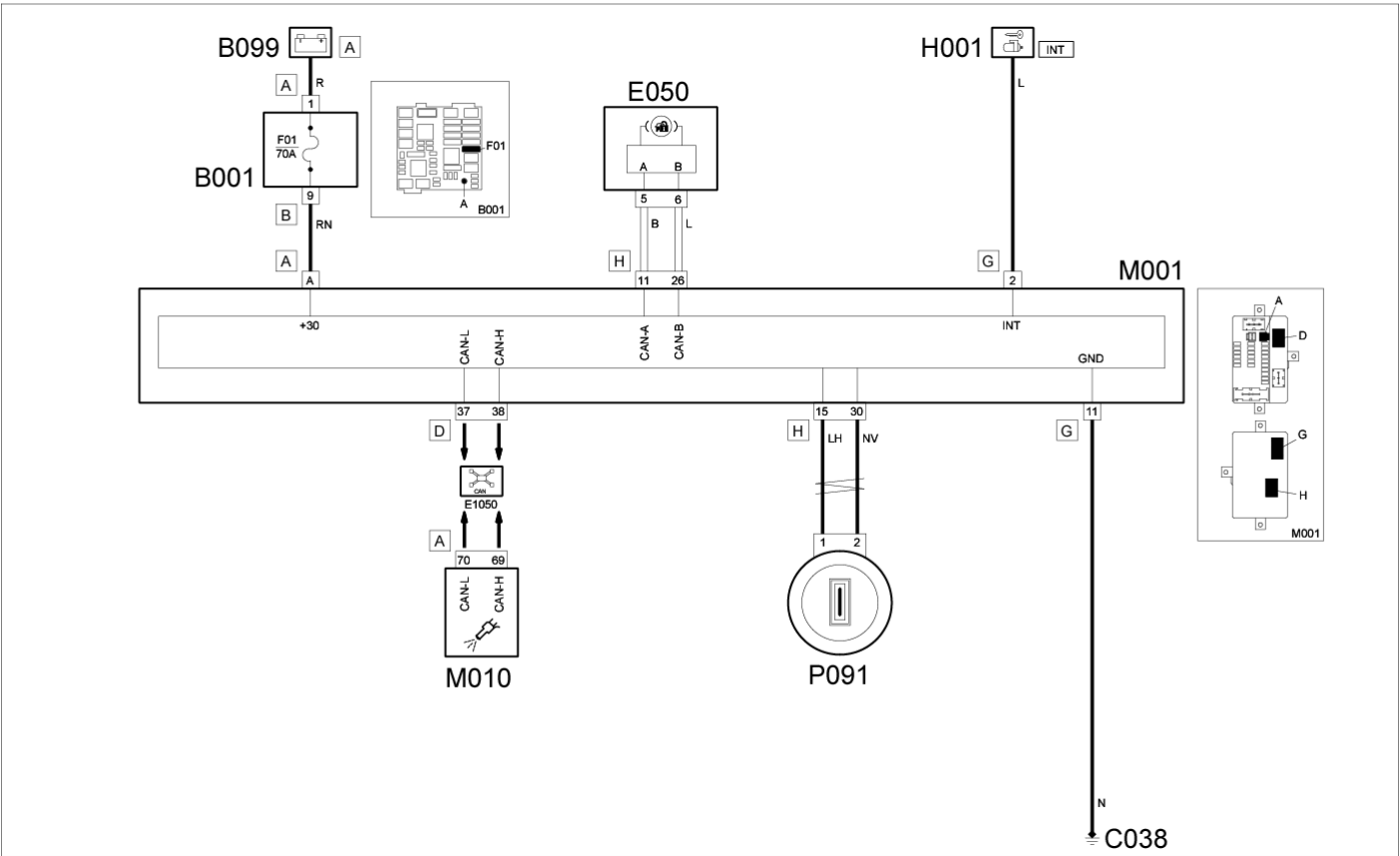
Pin 11 of connector G of M001 provides the Body Computer with a reference earth.

The CODE aerial P091 is connected, through two cables to the CODE unit of M001, to pins 15 and 30 of connector H; the aerial is positioned coaxially on the ignition switch in order to detect the key being inserted and turned.

The key recognition communication and exchange of codes between Body Computer M001 and engine control unit M001 takes place via the C-CAN.

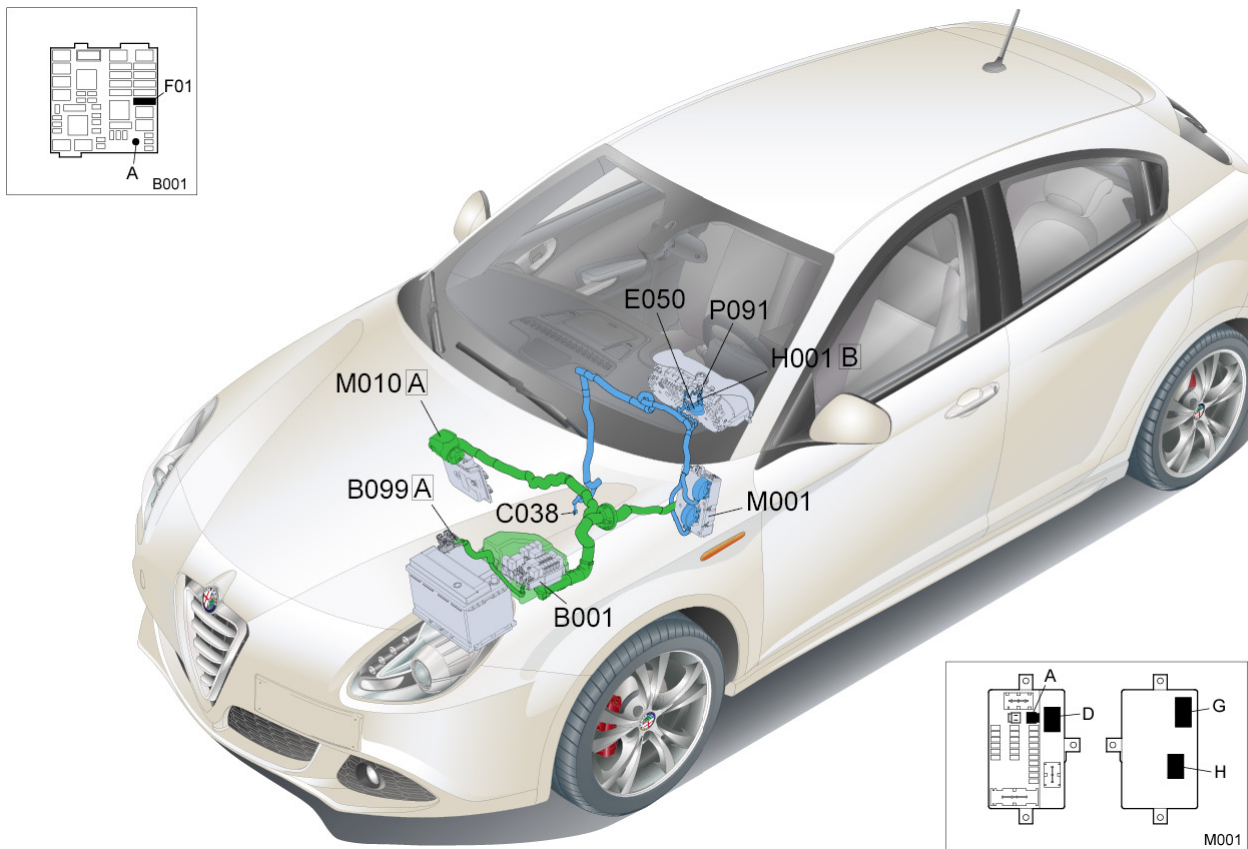
The Body Computer M001 is connected, through the CAN line, to the instrument panel E050 to manage the "vehicle protection" warning light.

CODE - 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
C038	EARTH ON CENTRE TUNNEL	-
E050	INSTRUMENT PANEL	Op. 5560B10 CONTROL PANEL - 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.
M010	ENGINE MANAGEMENT CONTROL UNIT	Op. 1056B82 INJECTION/IGNITION SYSTEM E.C.U. (ONE) - R + R
P091	AERIAL FOR FIAT-CODE	Op. 5580E08 AERIAL FOR ELECTRONIC KEY (CODE) - R.R.

CODE - COMPONENT LOCATION



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