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LINEA SERIALE A-BUS

191 - Giulietta

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A-BUS SERIAL LINE - DESCRIPTION

This vehicle is equipped with a CAN (Controller Area Network) system of electrical connections.

The different electronic units that make up the system, known as network Nodes, are connected to the CAN; the main element of the network is the Body Computer.

The various electronic units process the various signals coming from the corresponding sensors both for their own management and for other control units to which they are sent via the CAN.

The structure consists of two CAN communication networks which connect nodes belonging to two different areas:

- C-CAN for dynamic vehicle control (high speed): bus CAN-H and CAN-L;

- B-CAN for the management of standard body functions (low speed): bus CAN-A and CAN-B;

the two CAN communication networks are connected to one another by a gateway for transferring joint information, located in the Body Computer Node.

See E1050 CAN CONNECTION LINES

A special A-BUS ISO 5 serial line manages the connection with:

- automatic wiping (rain sensor);

- automatic lighting (dusk sensor);

- alarm (siren and volumetric/anti-tilt sensors);

Another serial line manages the Start&Stop system (battery charge sensor), if present.

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A - BUS SERIAL LINE - FUNCTIONAL DESCRIPTION

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.

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

The rain and dusk sensor, located near the interior rear view mirror P065 - pin 3 - is connected via the A-BUS serial line to pin 14 of connector F of M001 and sends automatic operation signals to the windscreen wiper and the side lights and dipped beam headlights.

The same A-BUS serial line is also connected to the alarm volumetric/tilt sensors K062 - pin 4 and to the alarm siren P090 - pin 2.

In versions with Start&Stop, the serial line A-BUS is connected from pin 50 of connector D of the Body Computer M001 with the battery charge sensor K059, pin 1 of connector A.

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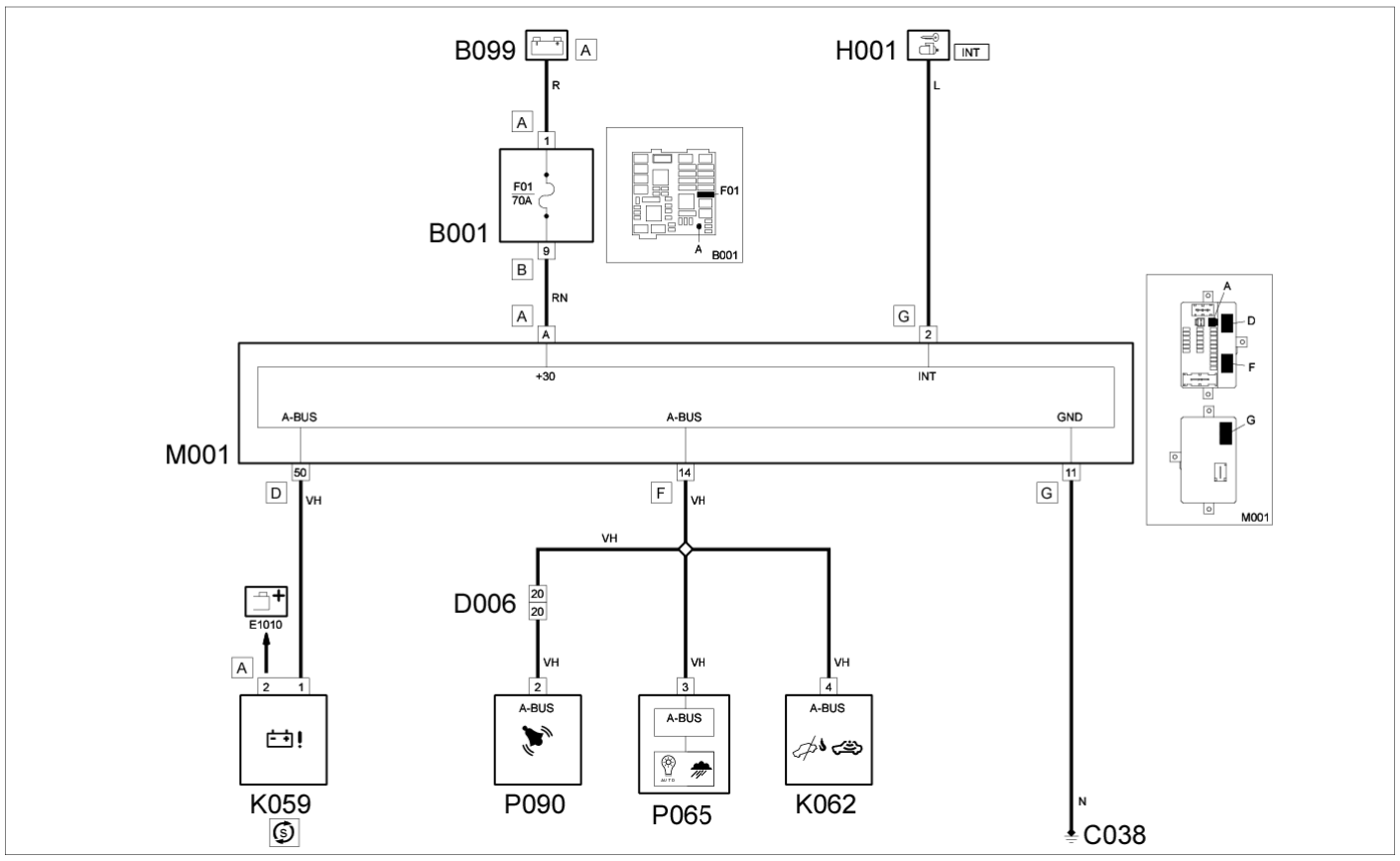
A-BUS SERIAL LINE - WIRING DIAGRAM



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	-
D006	FRONT/REAR COUPLING	-
E050	INSTRUMENT PANEL	Op. 5560B10 CONTROL PANEL - R+R
H001	IGNITION SWITCH	Op. 5520A18 IGNITION SWITCH CONTACT CARRIER LOCK BARREL - R.R.
K059	battery charge status sensor	Op. 5520D01 BATTERY STATUS MONITORING SENSOR - R.R.
K062	ALARM VOLUMETRIC SENSORS ASSEMBLY	Op. 7040H92 FRONT CONTROL PANEL ON ROOF LINING - 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.
P090	ALARM SIREN	Op. 5580E40 ANTI-THEFT DEVICE SIREN - R+R

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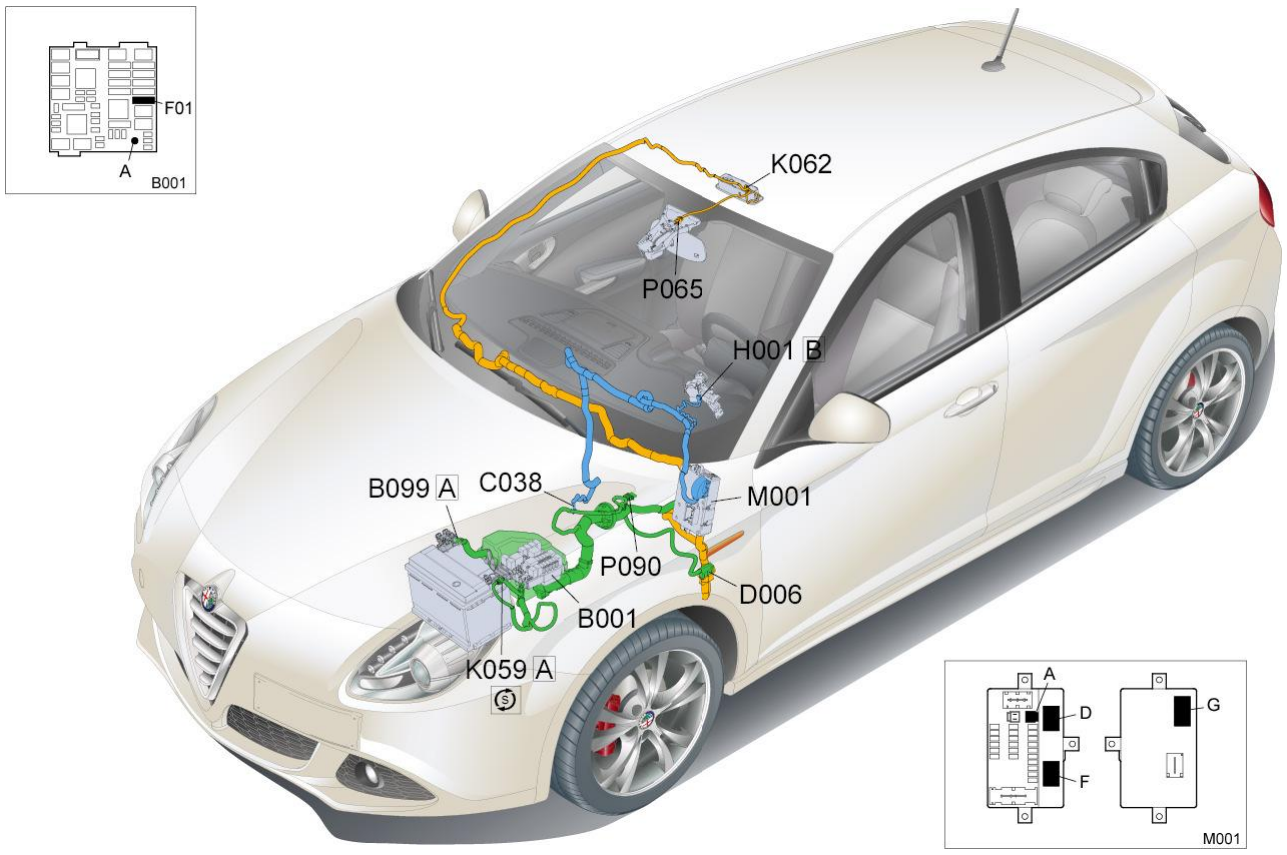
A-BUS SERIAL LINE - COMPONENT LOCATION



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