eLEARN

TRIP COMPUTER

191 - Giulietta

cardiagn.com

TRIP COMPUTER - DESCRIPTION

The Trip Computer shows vehicle trip, fuel consumption and mileage details on the control panel display.

Two fully independent Trip Computer modes (A and B) are available for the Comfort panel. The displays can be activated by pressing the TRIP button on the right steering wheel stalk.

The data display mode follows a preset order:

TRIP A:

- Range - Distance travelled - Average fuel consumption - Instantaneous fuel consumption - Average speed - Journey time

TRIP B:

- Distance travelled - Average fuel consumption - Average speed - Journey time

For more details

See descriptions 5560 INSTRUMENTS

Trip Computer data is calculated inside the instrument panel.

The instrument panel is a CAN node through which information is exchanged with the Body Computer and with the other electronic units.

See E4010 INSTRUMENT PANEL

This diagram shows the operation of instrument panel functions that also affect the Trip Computer.

cardiagn.com

TRIP COMPUTER - FUNCTIONAL DESCRIPTION

The ignition-operated supply (INT) for the instrument panel E050 reaches pin 3 of the Body Computer M001 - pin 17 of connector G - through the line for fuse F37 of the Body Computer itself.

The direct power supply reaches pin 2 from the Body Computer M001 - pin 4 of connector G - through the line for fuse F53 of the Body Computer itself.

Pin 1 of E050 is earthed.

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 instrument panel E050 is connected from pins 5 and 6 with the Body Computer M001 - pins 11 and 26 of connector H - and through the latter to the entire CAN: the signal reaches the electronic speedometer (from the ABS control unit M050) through the CAN:

The electronic rev counter receives the engine rpm signal from the engine management control unit M010 via the CAN.

The fuel level gauge is controlled by means of signals coming from the level gauge located in the fuel pump assembly N040 - at pins 24 (signal) and 25 (earth) of connector F of the Body Computer M001 and from there through the CAN to the instrument panel E050.

All these signals are transferred via the CAN to the instrument panel E50.

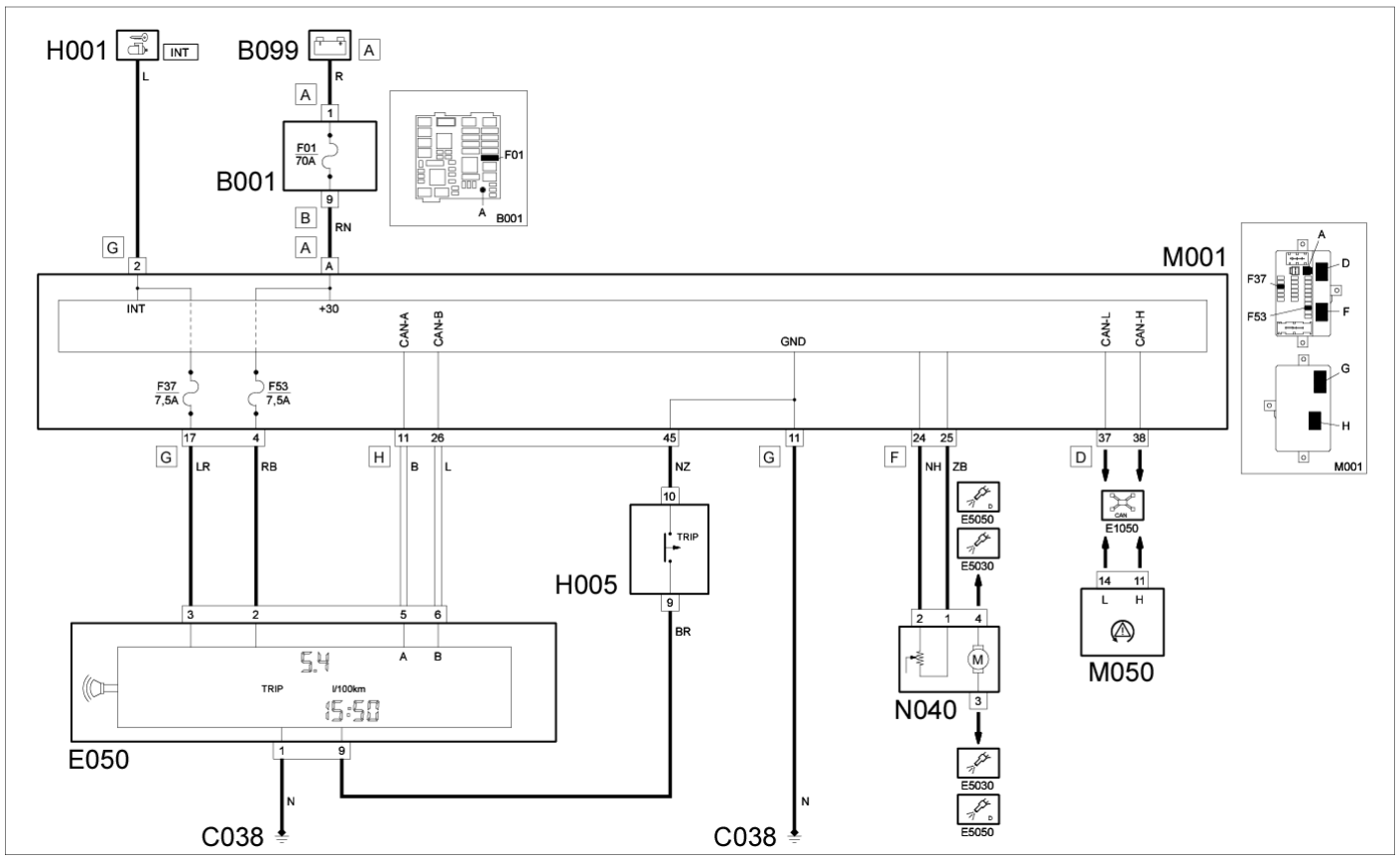
The TRIP electronic module uses these signals to process information on instantaneous and average fuel consumption, range, average speed, Km (or miles) travelled, duration etc.

The Trip Computer zeroing button, located in the steering column switch unit H005, sends an earth signal from pin 9 of H005 to pin 9 of E050.

The reference earth reaches pin 10 of H005 from pin 34 of connector D of M001.

cardiagn.com

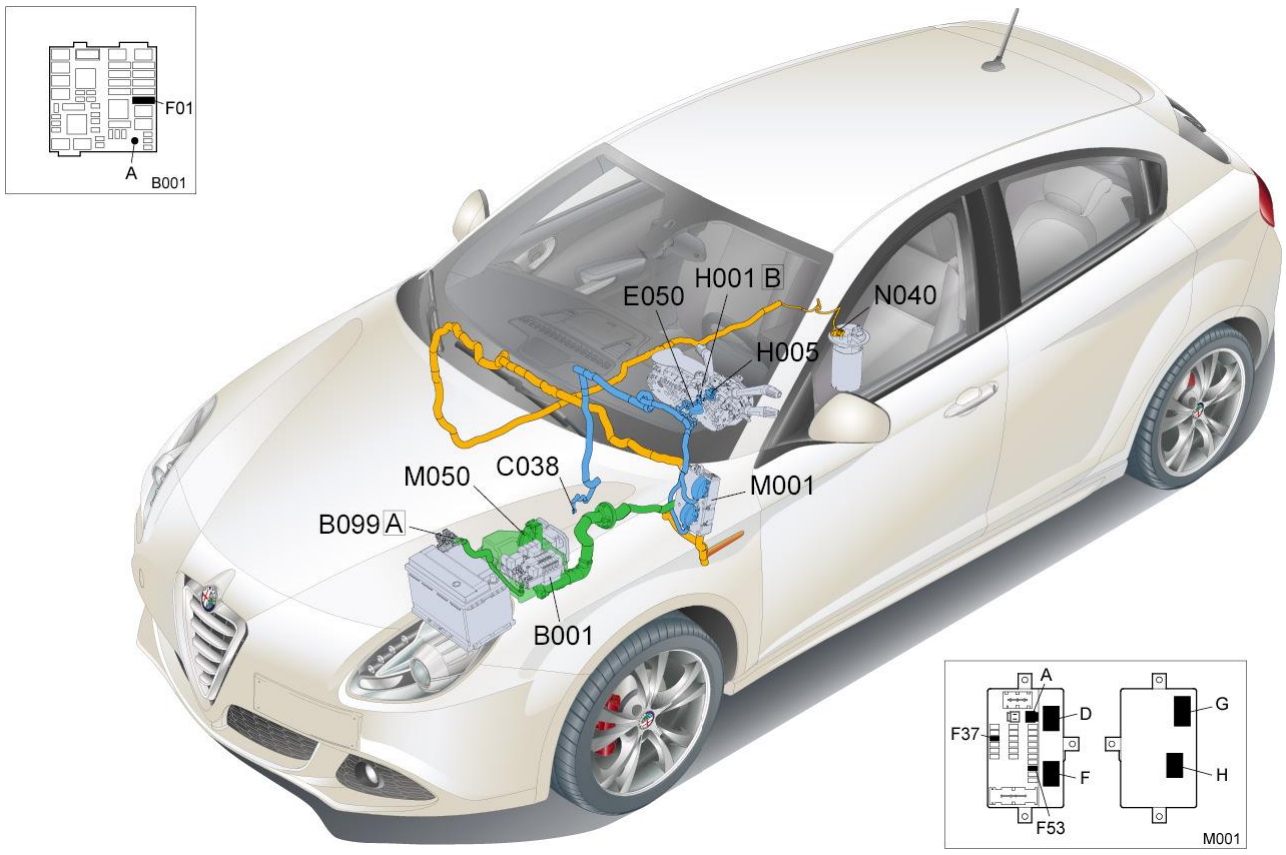
TRIP COMPUTER - WIRING DIAGRAM



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.
H005	STEERING COLUMN SWITCH UNIT	Op. 5550A10 STALK UNIT ASSEMBLY - R+R
M001	BODY COMPUTER	Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
M050	ABS CONTROL UNIT	Op. 3340A20 ABS ELECTRONIC CONTROL UNIT - R+R
N040	FUEL PUMP AND LEVEL GAUGE	Op. 1040A70 SUBMERGED PUMP ASSEMBLY COMPLETE WITH LEVEL GAUGE CONTROL - R + R

cardiagn.com

TRIP COMPUTER - 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
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.
H005	STEERING COLUMN SWITCH UNIT	Op. 5550A10 STALK UNIT ASSEMBLY - R+R
M001	BODY COMPUTER	Op. 5505A35 MAIN BODY COMPUTER/JUNCTION UNIT - R.R.
M050	ABS CONTROL UNIT	Op. 3340A20 ABS ELECTRONIC CONTROL UNIT - R+R
N040	FUEL PUMP AND LEVEL GAUGE	Op. 1040A70 SUBMERGED PUMP ASSEMBLY COMPLETE WITH LEVEL GAUGE CONTROL - R + R

cardiagn.com