



CRUISE CONTROL

152 - Doblò Panorama

CRUISE CONTROL - DESCRIPTION

The Cruise Control is an electronically controlled driving assistance device that makes it possible to drive at a constant speed (above 30 km/h) without keeping the accelerator pedal pressed.

The function is managed by the engine management control unit, which, through the CAN, receives commands from a Cruise Control lever on the left of the steering column switch unit.

To switch the Cruise Control on, turn the ring nut for the special lever on the left of the steering column switch unit to the ON position.

Activation is signalled by the special warning light in the instrument panel switching on and the message on the multifunction display (COMFORT version).



The device cannot be turned on in either reverse gear or first gear. It is also not advisable to use it below fourth gear.

To set the desired speed, turn the ring nut to the ON position and press the accelerator until the vehicle reaches the desired speed.

At this point, it is necessary to move the lever upwards (+ position) for at least a second and then release it. The speed will be memorized and the accelerator pedal can then be released.

If necessary (for example, for overtaking) the accelerator pedal can be pressed. When the pedal is released the vehicle will automatically return to the speed memorised.



When driving downhill it is possible that the speed may slightly exceed the speed set.

If the device has been switched off, for example as a result of pressing the brake or clutch pedal, the following must be carried out to restore the speed setting:

- accelerate gradually until the vehicle reaches a speed close to the one set;
- engage the gear selected at the time of the speed programming;
- press the "RES" button located at the end of the lever.

The speed set can also be adjusted.

The speed memorized can be increased in two ways:

- by pressing the accelerator and memorizing the new speed reached;
- by moving the lever upwards (+). Each operation of the lever will correspond to a slight increase in speed of about 1 km/h, while keeping the lever upwards will correspond to a continuous speed increase.

The speed memorized can be decreased in two ways:

- by switching off the device and then memorizing the new speed;
- by moving the lever downwards (-) until the new speed, which will automatically remain memorized, is reached. Each movement of the lever will correspond to a slight reduction in speed of about 1 km/h, while keeping the lever held downwards will correspond to a continuous speed reduction.

The device can be switched off in the following ways:

- by turning the ring nut to the OFF position;
- by switching off the engine;
- by pressing the brake pedal;
- by pressing the clutch pedal;
- with the vehicle speed below the set limit;
- by pressing the accelerator pedal (in this case the system is not actually turned off but the acceleration request takes priority; the Cruise Control remains activated, without the need to press the RES button to restore the previous conditions once the acceleration is over).

In addition, the device switches off automatically if the ABS or ESP systems intervene or if there is a system failure.

For more details,

See descriptions 5580A CRUISE CONTROL SYSTEM

CRUISE CONTROL - FUNCTIONAL DESCRIPTION

The Cruise Control function - constant speed regulator - is mainly managed by engine management control unit and the Body Computer upon request using the special lever built into steering column switch unit H005.

The device activation control via the left steering column switch unit stalk H005, receives a reference earth at pin 10 of the steering column switch unit which is supplied by the Body Computer M001 (pin 34 of connector D).

The Body Computer M001 (pin 41 of connector D) receives a single management signal for all Cruise Control commands from the steering column switch unit H005 (pin 6): this signal is coded by a special resistive divider, so that various information can be sent by the steering column switch unit to the Body Computer with a single connection.

Body Computer M001 receives a direct battery power supply (pin 1 of connector A) protected by fuse F01 of engine compartment junction unit B001 (pin 9 of connector B). It also receives an ignition-operated power supply (INT) at pin 11 of connector E.

Body Computer M001 is also connected to driver's side dashboard earth C015 (connector C) via pin 9 of connector E.

To manage the Cruise Control function, the engine management control unit M010 and the Body Computer M001 communicate with each other through the C-CAN (pins 84 and 83 of connector A of M010, pins 44 and 45 of connector B of M001).

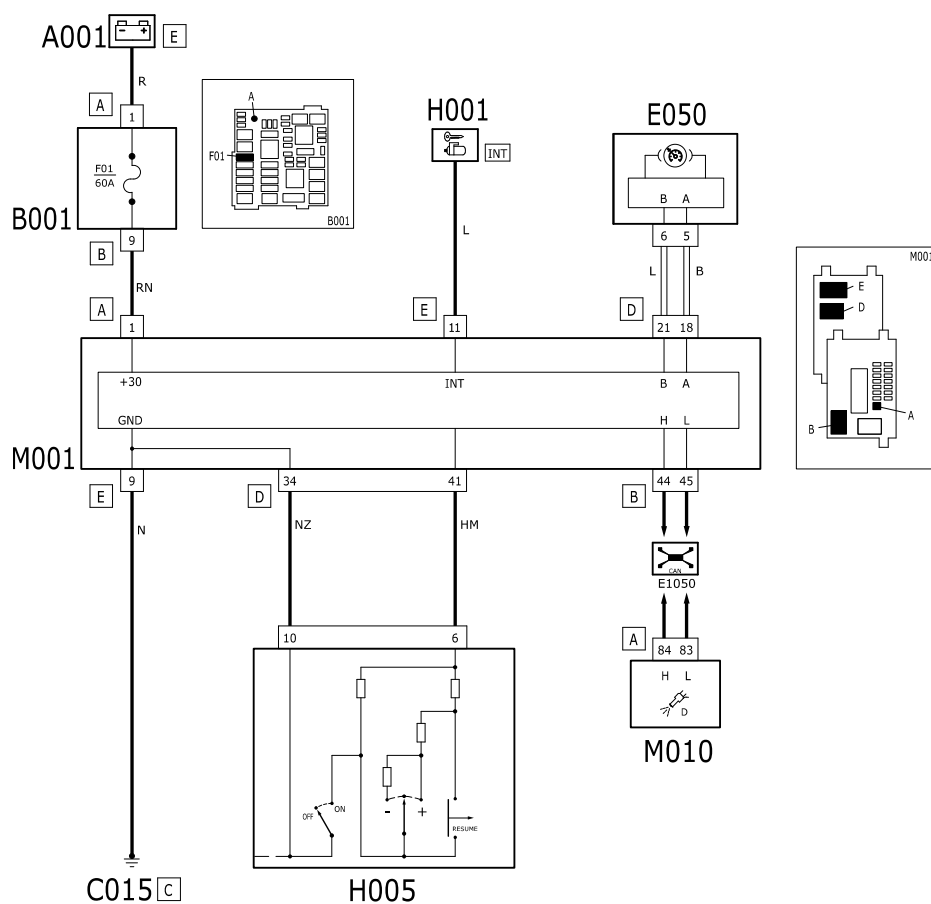
See E1050 CAN CONNECTION LINES

In addition the engine management control unit M010 manages the "pedal released" signal (NC contact) from the second contact of brake pedal I030 and the "pressed clutch pedal" signal from switch I031 and the accelerator pedal K055.

See E5050 DIESEL ENGINES ELECTRONIC MANAGEMENT

Body Computer M001 is connected, via the B-CAN line, from pins 18 and 21 of connector D, to instrument panel E050 (pins 5 and 6) to manage the "Cruise Control on" warning light and, where provided, the corresponding messages.

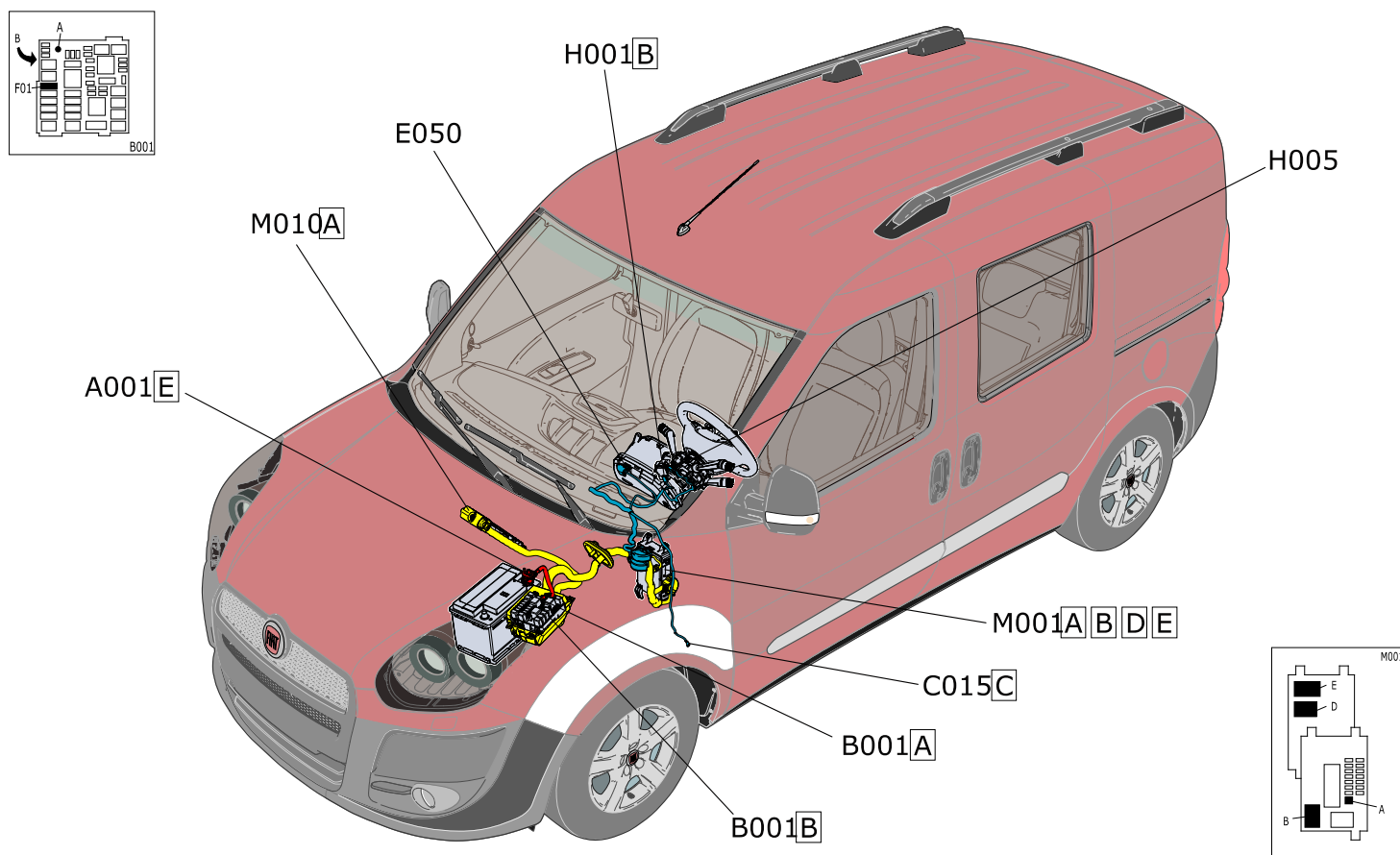
CRUISE CONTROL - WIRING DIAGRAM



Component code Description

A001	BATTERY	Reference to the Operation
B001	JUNCTION UNIT	Op. 5530B10 BATTERY - R+R
C015	DASHBOARD EARTH, DRIVER'S SIDE	-
E050	INSTRUMENT PANEL	-
H001	IGNITION SWITCH	Op. 5560B10 CONTROL PANEL - R+R
H005	STEERING COLUMN SWITCH UNIT	Op. 5520A10 IGNITION SWITCH ASSEMBLY - R+R
M001	BODY COMPUTER	Op. 5550A10 STALK UNIT ASSEMBLY - R+R
M010	ENGINE MANAGEMENT CONTROL UNIT	Op. 5505A32 BODY COMPUTER - R.R
		Op. 1060G80 DIESEL ELECTRONIC INJECTION CONTROL UNIT - R.R

CRUISE CONTROL - COMPONENT LOCATION



Component code	Description	Reference to the Operation
A001	BATTERY	Op. 5530B10 BATTERY - R+R
B001	JUNCTION UNIT	-
C015	DASHBOARD EARTH, DRIVER'S SIDE	-
E050	INSTRUMENT PANEL	Op. 5560B10 CONTROL PANEL - R+R
H001	IGNITION SWITCH	Op. 5520A10 IGNITION SWITCH ASSEMBLY - R+R
H005	STEERING COLUMN SWITCH UNIT	Op. 5550A10 STALK UNIT ASSEMBLY - R+R
M001	BODY COMPUTER	Op. 5505A32 BODY COMPUTER - R.R
M010	ENGINE MANAGEMENT CONTROL UNIT	Op. 1060G80 DIESEL ELECTRONIC INJECTION CONTROL UNIT - R.R