



TERGI / LAVA LUNOTTO

199 - Grande Punto

REARSCREEN WASH/WIPE - DESCRIPTION

When the rearscreen wiper ring nut located on the right steering column switch unit lever is moved to the ON position, the rearscreen wiper is activated in one of the following modes:

- intermittent: with a pause between strokes of 2.7 secs
- subject to the windscreen wiper (if there is a simultaneous windscreen/rearscreen wiper request): synchronous operation at half the frequency of the windscreen wiper
- continuous: if the reverse gear is engaged.



With the windscreen wipers working, if reverse gear is engaged, the rearscreen wiper is automatically activated: this function is managed by the Body Computer, which receives information from the engine control unit via the CAN

See E2022 REVERSING LIGHTS

Pushing the right steering column switch unit lever activates the rear washing. Keeping the lever pushed for more than 0.5 secs produces the automatic operation of the rearscreen wiper at the continuous speed.

When the control is released there are a further 3 strokes to clean the rearscreen plus another one 6 seconds later (to remove any drips).

If the rearscreen wiper was already activated before the washing command using the lever, the washing logic is only effective for activating intermittent operation.

The rearscreen wiper circuit is protected by a special fuse located on the Body Computer. The rearscreen wiper and rearscreen washer may be operated by a supply that is ignition-operated except during start-up (INT/A).

REARSCREEN WASH/WIPE - FUNCTIONAL DESCRIPTION

There is a single (earth) signal sent by the steering column switch unit H005 to the Body Computer M001 that manages all the rearscreen wiper commands: from pin 4 of H005 to pin 59 of connector D of M001; the signal sent is coded by means of resistive dividers so that multiple information can be sent by the steering column switch unit to the Body Computer via a single connection.

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

Similarly, the windscreen washer commands are sent from pin 5 of H005 to pin 55 of connector D of M001.

The Body Computer M001 - connector A - receives a direct power supply from the battery through the line protected by maxifuse F01 of the engine compartment control unit B001.

The Body Computer M001 receives an ignition-controlled (INT) power supply at pin 11 of connector E, whilst the ignition-controlled (INT/A) signal reaches pin 1 of connector E.

Pin 9 of connector E of M001 provides the Body Computer with a reference earth.

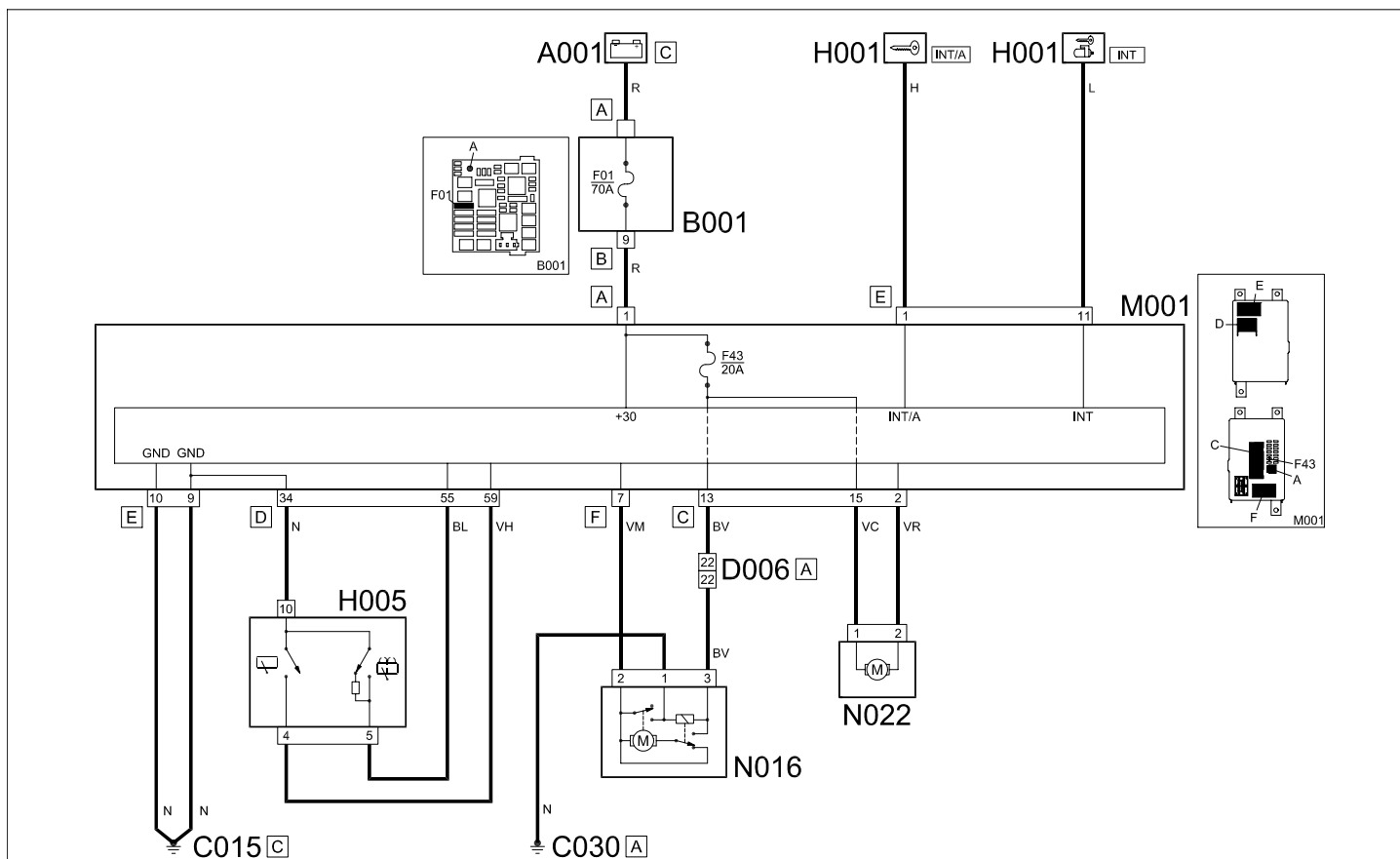
The Body Computer M001 sends the control signal to the rearscreen wiper motor N016 from pin 13 of connector C.

Pin 7 of connector F, on the other hand, receives the earth signal coming from the motor end of travel cam which stops operation. The rearscreen wiper motor N016 is then earthed.

The Body Computer M001 sends two signals from pins 15 and 12 of connector C which activate the windscreen/rearscreen washer pump N022 which turns sending the detergent fluid to the front windscreen.

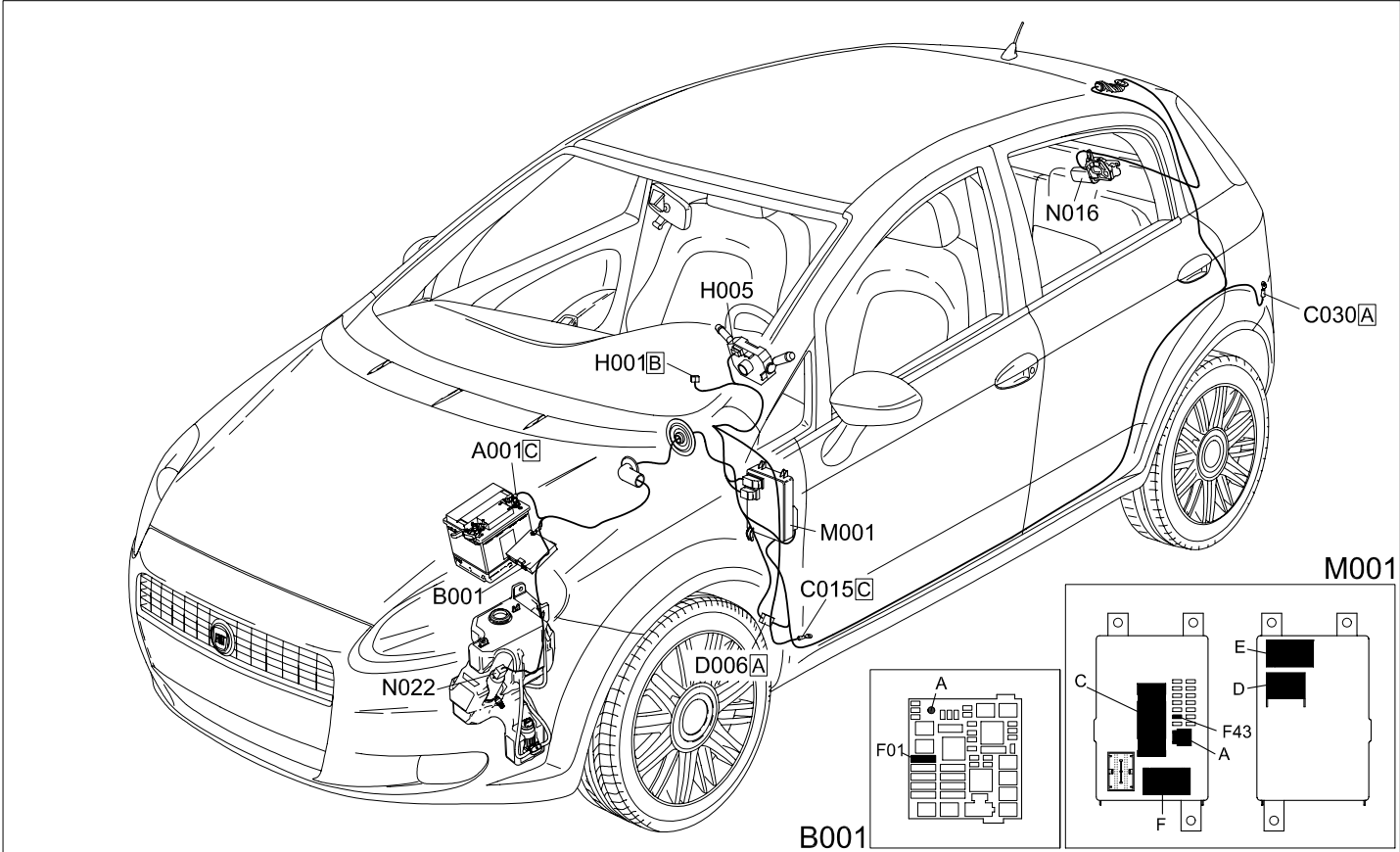
The supply lines for the rearscreen wiper motor and the pump are protected by fuse F43 located in the Body Computer M001.

REARSCREEN WASH/WIPE - WIRING DIAGRAM



Component code	Description	Reference to the operation
A001	BATTERY	Op. 5530B10 BATTERY - R+R
B001	JUNCTION UNIT	Op. 5505A28 CONTAINER FOR ADDITIONAL JUNCTION UNIT IN ENGINE COMPARTMENT - R.R.
C015	DASHBOARD EARTH, DRIVER'S SIDE	-
C030	LEFT REAR EARTH	-
D006	FRONT/REAR COUPLING	-
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. 5505A32 BODY COMPUTER - R.R.
N016	REAR WINDOW WIPER MOTOR	Op. 5050C42 REAR WIPER MOTOR - R+R
N022	WINDSCREEN/REARSCREEN WASHER ELECTRIC PUMP MOTOR	Op. 5050B22 FRONT AND REAR SCREEN WASHER PUMP - R+R

REARSCREEN WASH/WIPE - COMPONENT LOCATION



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H001	IGNITION SWITCH	Op. 5520A18 IGNITION SWITCH CONTACT CARRIER LOCK BARREL - R.R.
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N016	REAR WINDOW WIPER MOTOR	Op. 5050C42 REAR WIPER MOTOR - R+R
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