



RADIOTELEFONO INTEGRATO

150 - 500

BUILT-IN RADIO PHONE - DESCRIPTION


The Blue&Me system allows a mobile phone to be used on board the vehicle through voice commands or the controls on the steering wheel. This makes it possible to keep within the law and to drive safely and comfortably.

Bluetooth technology makes it possible to use a mobile phone through the hands-free system on the vehicle without the need for connections.

The system consists of:

- a Bluetooth receiver;
- a built-in voice recognition module including a microphone (located near the front courtesy light);
- a built-in text to speech module;
- USB/AUX interface for "Media Player" and other multimedia players, like iPod and iPhone (located near the cigar lighter housing).

The control unit that manages the entire system receives a signal from the radio controls on the steering wheel (two special buttons for this function are provided in addition to the radio control buttons).

 The functions of the device connected with the AUX socket are directly managed by the device itself; it is not possible to change track/folder/playlist with radio or steering wheel controls.

The entire operation of the system is also managed by voice commands, picked up by the microphone near the front courtesy light.

The alphanumeric display used is the one on the onboard panel (Comfort version).

See descriptions 5560 INSTRUMENTS

The vehicle is available, on request, with a setup for the installation of a multifunction TomTom Portable Navigation Device (PND) (Copyright © TomTom International BV). The "Blue&Me" Bluetooth system guarantees direct integration between the TomTom PND and the vehicle.

See E4090 NAVIGATOR

For more details on system operation,

See descriptions 5570 ACCESSORIES

BUILT-IN RADIO PHONE - DESCRIPTION OF OPERATION

The Bluetooth control unit M162 receives a power supply, at pin 16, directly from the battery via the line protected by fuse F36 of the Body Computer M001 (pin 19 of connector E).

Control unit M162 receives an ignition-controlled supply (INT), at pin 32, via the line for fuse F51 of Body Computer M001 (pin 5 of connector E).

Pin 15 of M162 is connected to driver dashboard earth C015.

The Bluetooth control unit M162 (pins 14 and 30) is connected, via the B-CAN, to radio P020 (pins A3 and A1 of connector A), to Body Computer M001 (pins 17 and 22 of connector D), to instrument panel E050 (pins 5 and 6) and to the other system nodes.


The control unit M162 is connected, through pins 5, 22 and 21 to radio P020 (pins 1, 2 and 3 of connector B) to manage the signals for playing content with the multimedia player function: AUX left, AUX right and AUX earth Media Player signals respectively.

The USB/AUX P157 port manages separately and through different connections the two functions: USB for "Media Player" and AUX-IN for other multimedia players connected through a male/male jack (iPod, iPhone, etc.).

The USB device of the P157 port (pins 4, 5, 3, 2 and 6) is connected to the Bluetooth control unit M162 (pins 3, 4, 19, 20 and 31), respectively with the signals: signal D+, reference earth, signal D-, 5V power supply and shielding; if the AUX-IN port is used instead, the P157 device (pins 8, 9 and 10) is connected to the radio P020 (pins 19, 20 and 18 of connector B), respectively with the signals: AUX-IN left, AUX-IN right and reference earth through shielding.

The bypass jumper between pins 13 and 14 of connector B of P020 allows the use of the AUX-IN function (data IN / data OUT).

Pins 11 and 12 of the USB/AUX P157 port are connected with the driver's dashboard earth C015 and the ignition-operated power supply (INT) protected by fuse F49 of the Body Computer M001 (pin 17 of connector E) respectively to manage its back-lighting and the port operation feedback.

 In this version (left-hand drive), the Bluetooth M162 control unit and the USB/AUX P157 port are integrated in the dashboard wiring. In the right-hand drive versions they are integrated in the rear wiring.

Hands-free microphone P026, located near the front courtesy light, is connected to pin 8 of M162, whilst pin 24 is prepared for the cable screening.

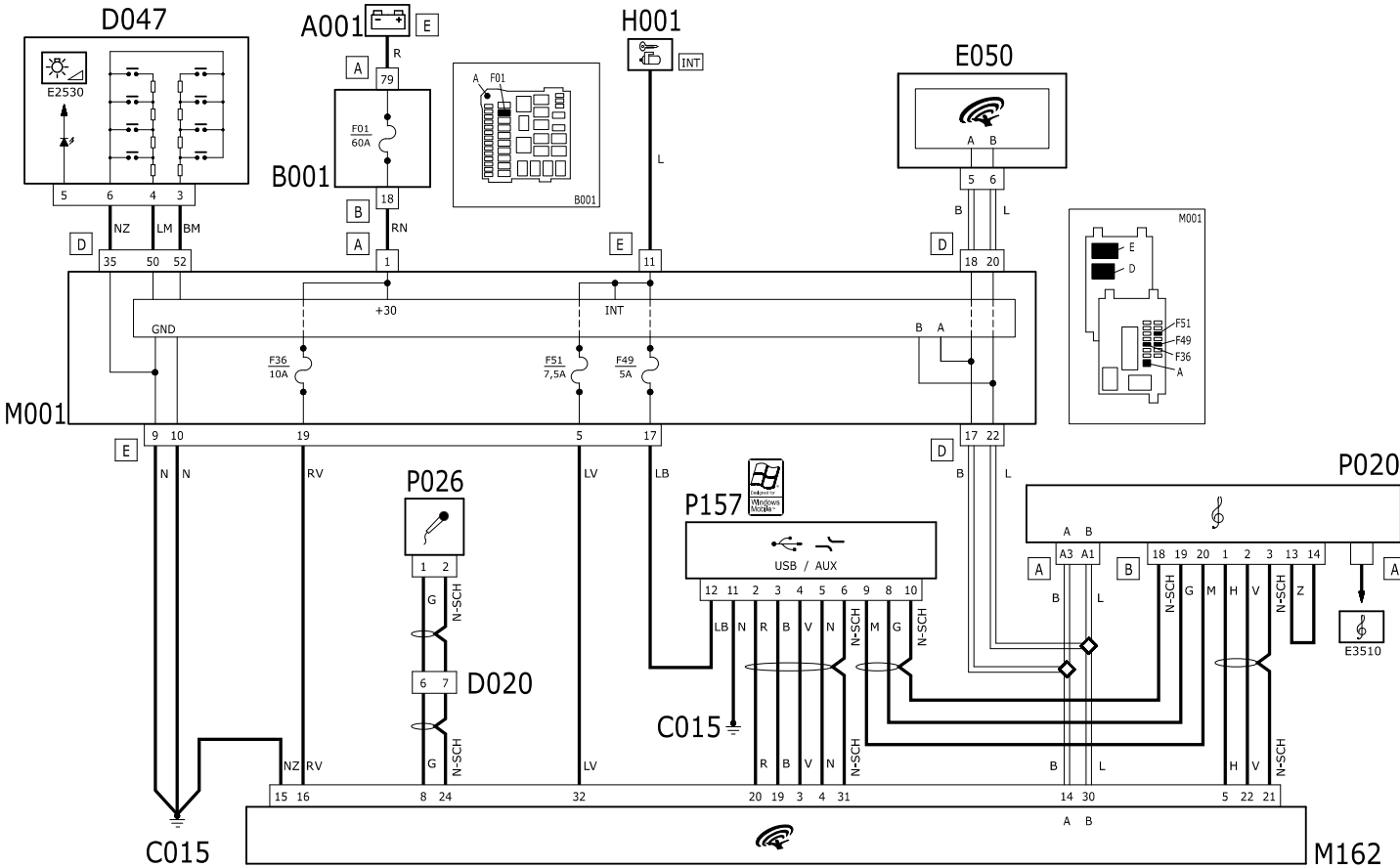
Body Computer M001 is connected to the radio controls on the steering wheel via clock spring junction D047. Specifically:

- the reference earth signal from pin 35 of connector D of M001 is received at pin 6 of D047;
- the signal is sent, from pin 4 of D047, for the MUTE/ESC, WINDOWS logo, VOL+ and VOL- controls (located to the left of the steering wheel) to pin 50 of connector D of M001;
- the signal is sent, from pin 3 of D047, for the SOURCE/OK, TEL/MAIN, SCAN+ and SCAN- controls (located to the right of the steering wheel) to pin 52 of connector D of M001.

The Body Computer M001 receives a direct battery power supply (pin 1 of connector A) protected by fuse F01 of the engine compartment junction unit B001 (pin 18 of connector B); it also receives an ignition-operated power supply (INT) at pin 11 of connector E.

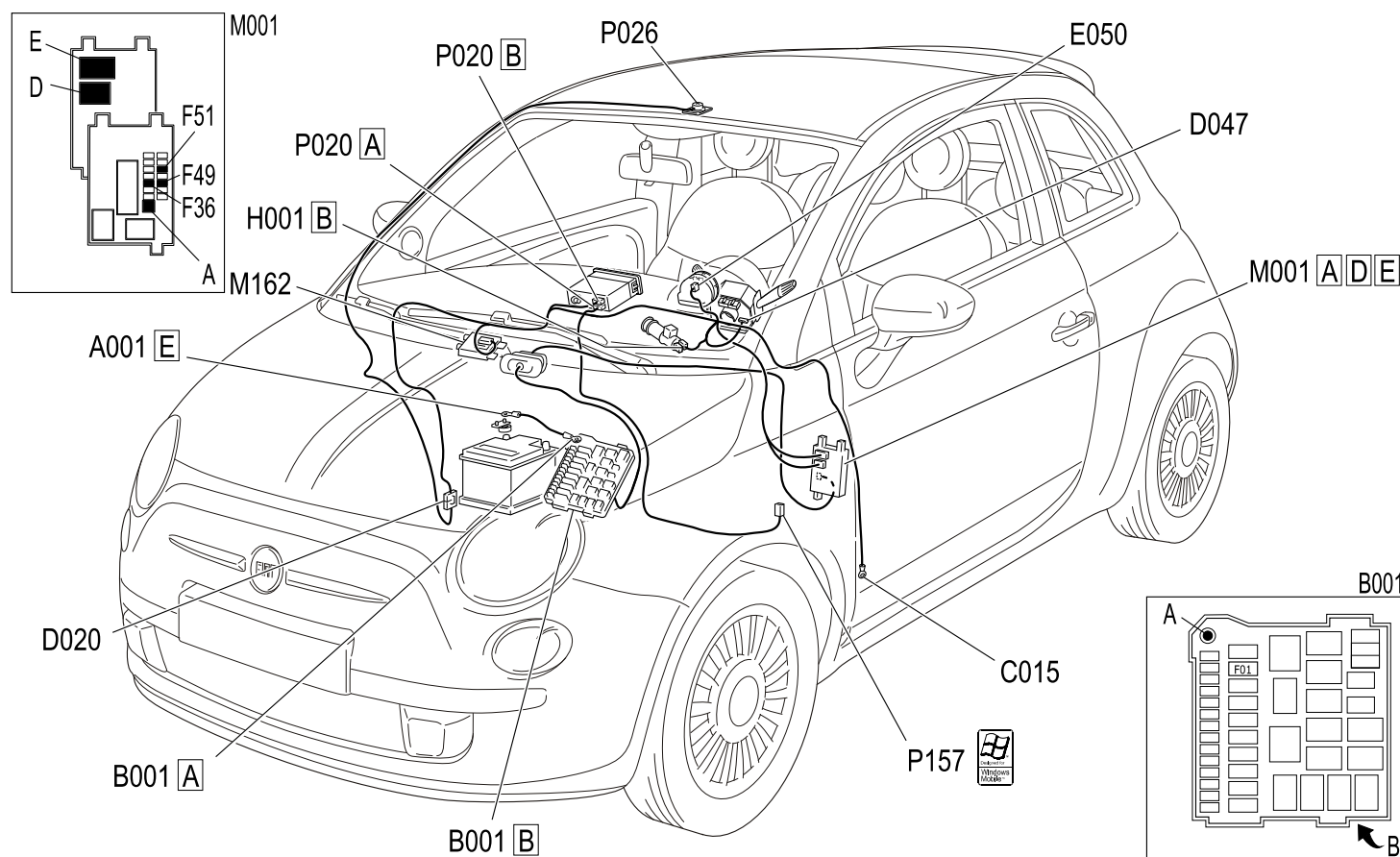
The Body Computer M001 is also connected to driver's dashboard earth C015 via pins 9 and 10 of connector E.

BUILT-IN RADIO PHONE - WIRING DIAGRAM



Component code	Description	Reference to the Operation
A001	BATTERY	Op. 5530B10 BATTERY - R+R
B001	JUNCTION UNIT	Op. 5505A10 JUNCTION UNIT - R+R
C015	DASHBOARD EARTH, DRIVER'S SIDE	-
D020	DASHBOARD/REAR COUPLING	-
D047	CLOCK SPRING COUPLING	Op. 5580C12 CLOCK SPRING FOR AIR BAG MODULE ON STEERING WHEEL - R.R
E050	INSTRUMENT PANEL	Op. 5560B10 CONTROL PANEL - R+R
H001	IGNITION SWITCH	Op. 5520A10 IGNITION SWITCH ASSEMBLY - R+R
M001	BODY COMPUTER	Op. 5505A32 BODY COMPUTER - R.R
M162	BLUETOOTH CONTROL UNIT	Op. 5570T49 BLUETOOTH ELECTRONIC CONTROL UNIT - R.R.
P020	CAR RADIO	Op. 5570T80 CAR RADIO EQUIPMENT - R+R
P026	HANDSFREE MICROPHONE	Op. 5570T14 MOBILE PHONE HANDS-FREE SYSTEM MICROPHONE - R R
P157	USB - AUX PORT	-

BUILT-IN RADIO PHONE - COMPONENT LOCATION



Component code	Description	Reference to the Operation
A001	BATTERY	Op. 5530B10 BATTERY - R+R
B001	JUNCTION UNIT	Op. 5505A10 JUNCTION UNIT - R+R
C015	DASHBOARD EARTH, DRIVER'S SIDE	-
D020	DASHBOARD/REAR COUPLING	-
D047	CLOCK SPRING COUPLING	Op. 5580C12 CLOCK SPRING FOR AIR BAG MODULE ON STEERING WHEEL - R.R
E050	INSTRUMENT PANEL	Op. 5560B10 CONTROL PANEL - R+R
H001	IGNITION SWITCH	Op. 5520A10 IGNITION SWITCH ASSEMBLY - R+R
M001	BODY COMPUTER	Op. 5505A32 BODY COMPUTER - R.R
M162	BLUETOOTH CONTROL UNIT	Op. 5570T49 BLUETOOTH ELECTRONIC CONTROL UNIT - R.R.
P020	CAR RADIO	Op. 5570T80 CAR RADIO EQUIPMENT - R+R
P026	HANDSFREE MICROPHONE	Op. 5570T14 MOBILE PHONE HANDS-FREE SYSTEM MICROPHONE - R R
P157	USB - AUX PORT	-