



AIR CONDITIONING

AIR CONDITIONER - DESCRIPTION

The climate in the vehicle is controlled by means of the duct/distributor and heater unit.

The air conditioning system integrates the heater with the function of producing cold and dehumidified air, achieved by switching on the compressor and the cooling system.

The climate control system is controlled by operating two knobs with their associated wheels located on the central part of the dashboard:

- the ring nut on the left-hand knob mechanically controls the blend of hot and cold air;
- the left knob allows the adjustment, through an electric control, of the air ventilation at four different speeds;
- via a cable, the ring nut on the right-hand knob mechanically controls the opening of the flaps that govern air flow distribution;
- the right knob makes it possible to select whether or not to set the "recirculation" function which prevents the intake of new air into the passenger compartment.

There is a button, in between the two knobs, for switching the climate control compressor on. The function is activated by pressing the passenger compartment air intake speed selector knob and turning it to a position other than the rest position.

The activation of the air conditioning compressor is signalled by the LED in the button coming on.

To deactivate the function simply press the same button again.

AIR CONDITIONER - FUNCTIONAL DESCRIPTION

The climate control system control unit H080 receives an INT ignition-controlled supply at pin 1, via the line protected by fuse F51 located in the junction unit under the dashboard B002 and, at pin 4, from the direct battery line protected by fuse F39 of B002 via pin 17 of connector A of the Body computer M001.

Also, the H080 control panel is connected, via pin 6, to the air conditioning unit earth C016.

The function of switching the air conditioning on is managed by pin 2 of the climate control system control unit H080 which sends a request to the engine management control unit M010 (pin 54 of connector B on the 2.3 JTD and 3.0 JTD versions, pin F2 of connector B on the 2.2 JTD versions)

See E6021 COMPRESSOR ENGAGEMENT

The same signal is sent, depending on the version, either to the conversion socket or to the additional air conditioning system, if present.

See E3094 SOCKET FOR TRANSFORMER VERSION

See E6025 SUPPLEMENTARY AIR CONDITIONER

The climate control system control unit H080 receives feedback, at pin 3, that the passenger compartment air fan N085 is turned on.

The speed of the latter is regulated via the fan control H081 which, through the adjustment resistances O030, makes it possible to earth the fan motor through different resistance values, thereby allowing the adjustment of the speed.

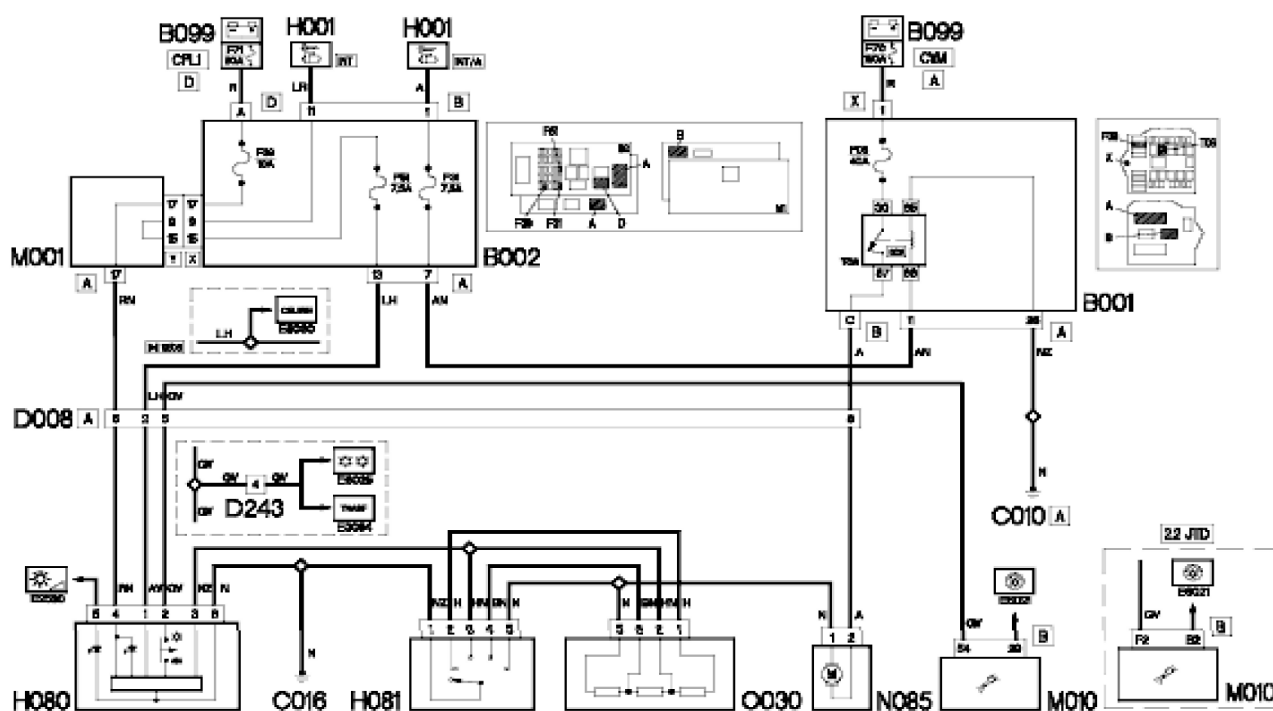
The passenger compartment air fan N085 receives a direct battery supply, at pin 2, via the line operated by relay T08 (except during starting) and protected by fuse F08 located in the engine compartment junction unit B001.

The passenger compartment air fan control H081 is connected, via pin 1, to the air conditioning unit earth C016.

The climate control system control unit H080 is backlit, via pin 5, when the side lights come on.

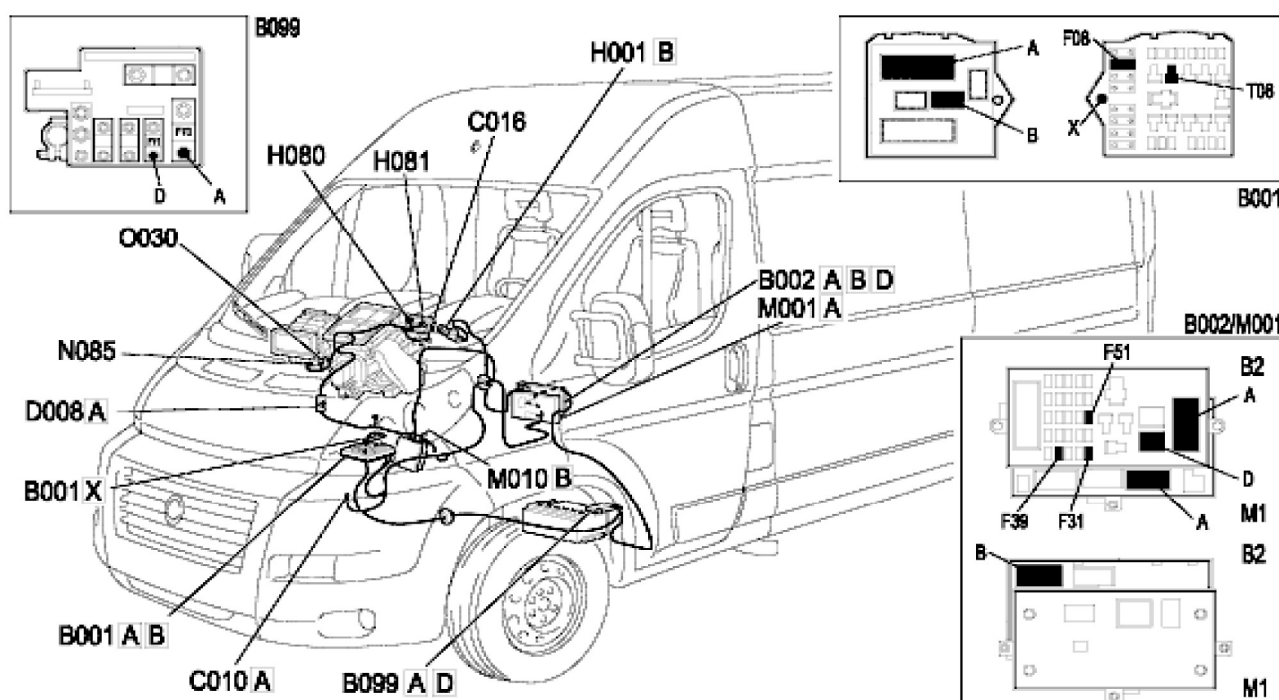
See E2530 INSTRUMENT LIGHTING

AIR CONDITIONER - WIRING DIAGRAM



Component code	Description	With reference to the assembly
B001	JUNCTION UNIT	Op. 5505A MULTI-FUNCTION COMPONENTS
B002	JUNCTION UNIT UNDER DASHBOARD	Op. 5505A MULTI-FUNCTION COMPONENTS
B099	MAXI FUSE BOX ON BATTERY	Op. 5530B BATTERY AND LEADS
C010	LEFT FRONT EARTH	-
C016	AIR CONDITIONING UNIT EARTH	-
D008	AIR CONDITIONING-HEATER FRONT COUPLING	-
D243	AIR CONDITIONING/OPTIONAL CAB COUPLING (AIR CONDITIONING)	-
H001	IGNITION SWITCH	Op. 5520A IGNITION SWITCH
H080	AIR CONDITIONING CONTROLS	Op. 5040D AIR CONDITIONING CONTROLS
H081	CLIMATE CONTROL FAN CONTROL	Op. 5040D AIR CONDITIONING CONTROLS
M001	BODY COMPUTER	Op. 5505A MULTI-FUNCTION COMPONENTS
M010	ENGINE MANAGEMENT ECU	Op. 1060G DIESEL INJECTION PRESSURE PUMP ELECTRONIC CONTROL
N085	PASSENGER COMPARTMENT AIR FAN	Op. 5040C AIR CONDITIONING CASING AND COMPONENTS
O030	PASSENGER COMPARTMENT AIR FAN ADJUSTMENT RESISTOR	Op. 5040C AIR CONDITIONING CASING AND COMPONENTS

AIR CONDITIONER - COMPONENT LOCATION



Component code	Description	With reference to the assembly
B001	JUNCTION UNIT	Op. 5505A MULTI-FUNCTION COMPONENTS
B002	JUNCTION UNIT UNDER DASHBOARD	Op. 5505A MULTI-FUNCTION COMPONENTS
B099	MAXI FUSE BOX ON BATTERY	Op. 5530B BATTERY AND LEADS
C010	LEFT FRONT EARTH	-
C016	AIR CONDITIONING UNIT EARTH	-
D008	AIR CONDITIONING-HEATER FRONT COUPLING	-
D243	AIR CONDITIONING/OPTIONAL CAB COUPLING (AIR CONDITIONING)	-
H001	IGNITION SWITCH	Op. 5520A IGNITION SWITCH
H080	AIR CONDITIONING CONTROLS	Op. 5040D AIR CONDITIONING CONTROLS
H081	CLIMATE CONTROL FAN CONTROL	Op. 5040D AIR CONDITIONING CONTROLS
M001	BODY COMPUTER	Op. 5505A MULTI-FUNCTION COMPONENTS
M010	ENGINE MANAGEMENT ECU	Op. 1060G DIESEL INJECTION PRESSURE PUMP ELECTRONIC CONTROL
N085	PASSENGER COMPARTMENT AIR FAN	Op. 5040C AIR CONDITIONING CASING AND COMPONENTS
O030	PASSENGER COMPARTMENT AIR FAN ADJUSTMENT RESISTOR	Op. 5040C AIR CONDITIONING CASING AND COMPONENTS