



## ELECTRIC FRONT WINDOWS

## FRONT ELECTRIC WINDOWS - DESCRIPTION

The electric windows for the front doors are operated through the switches on the driver's door armrest (both windows) and the passenger side (passenger side only).

On some versions there is an automatic "continuous automatic operation" function for closing and opening the driver's front window and opening the passenger side front window only.

The continuous automatic operation takes place as follows:

- if the button is pressed for less than half a second (short command), operation is manual: the glass goes up/down only with the key pressed;
- if, on the other hand, the button is pressed for longer (long command), operation is automatic: even if the button is released, the window continues to close/open until it is in the end of travel position;
- pressing the button again whilst the window is moving stops it in the position it is in.



With the ignition key in the OFF position or extracted, the electric windows remain activated for about 3 minutes and are deactivated immediately when one of the doors is opened.

The electric windows circuit is controlled by a dedicated relay and protected by a dedicated fuses located in the junction unit under the dashboard.

## FRONT ELECTRIC WINDOWS - FUNCTIONAL DESCRIPTION

The front electric windows system is managed by the electric windows and rear view mirrors control unit on the driver's front door H051 and by the electric windows switch on the passenger front door H050.

The electric windows and rear view mirrors control unit on the driver's front door H051 has the following connections:

- from pin 1 of connector A it controls the raising of the driver's electric window N060;
- from pin 5 of connector A it controls the lowering of the driver's electric window N060;
- from pin 8 of connector A it controls the raising of the passenger side electric window N061;
- from pin 7 of connector A it controls the lowering of the passenger side electric window N061;
- at pin 3 of connector A it is connected to the cab earth C100;
- pin 6 of connector A receives a power supply from the line protected by fuse F45 location in the junction unit under the dashboard B002.

This ignition-controlled power supply also reaches pin 2 of the electric windows switch on the front passenger door H050 which:

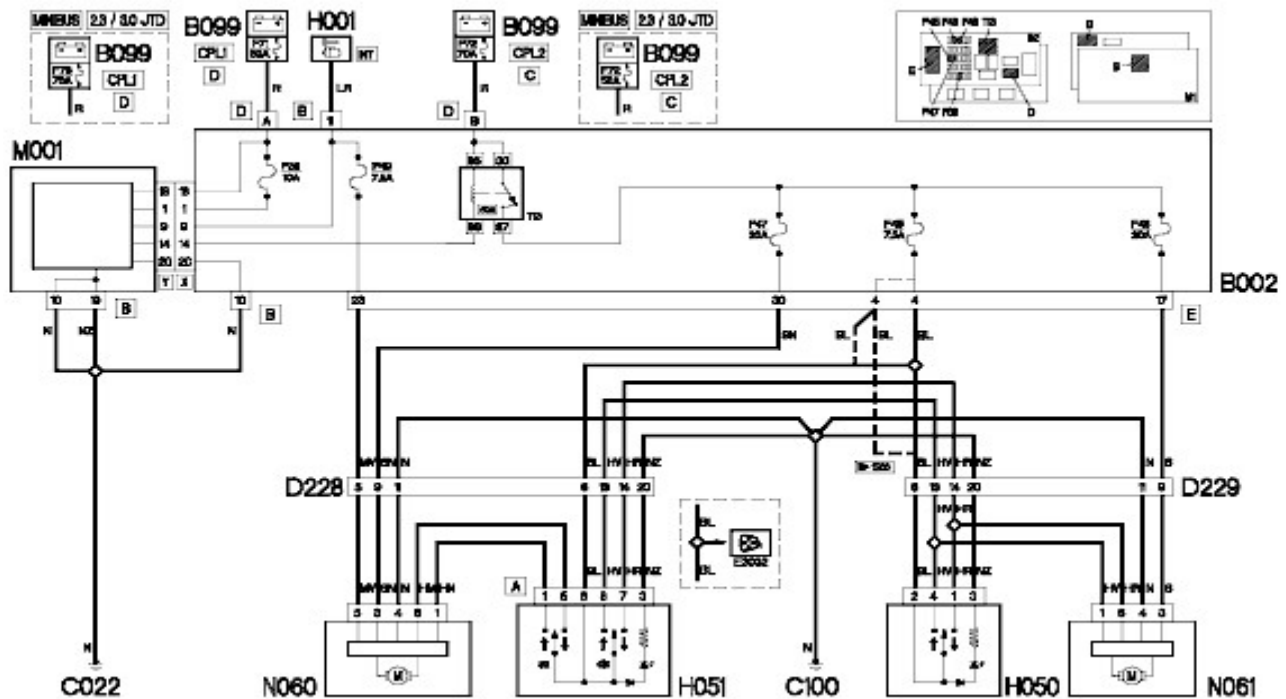
- from pin 4 controls the passenger side electric window motor N061 raising;
- from pin 1 controls the passenger side electric window motor N061 lowering;
- at pin 3 is connected to the cab earth C100.

The power supply for the electric window motors is managed by relay T13 of the junction unit under the dashboard B002, activated by the Body Computer M001 with the ignition in the ON position.

The driver's front electric window motor N060 receives a direct battery power supply at pin 3 via the line protected by fuse F47 of the junction unit under the dashboard B002 and an ignition-controlled power supply (INT) at pin 5 via the line protected by fuse F49 of B002; it is then connected, via pin 4, to the cab earth C100.

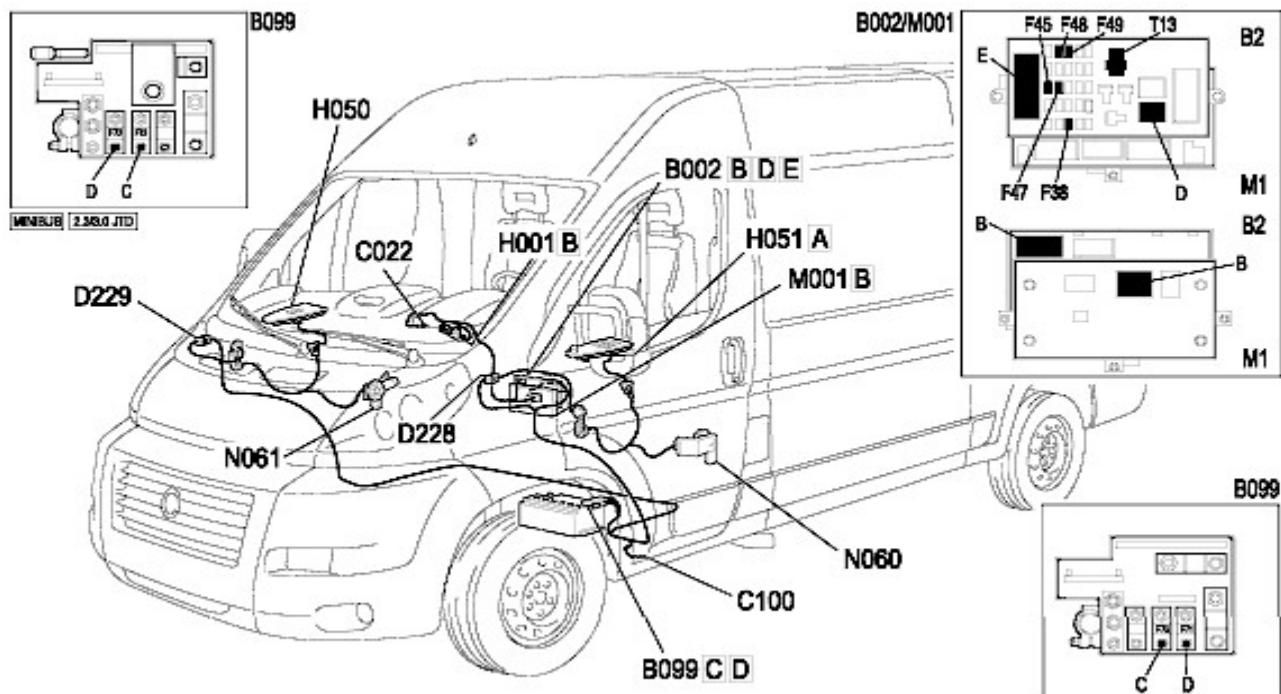
The front passenger side electric window motor N061 receives a direct battery power supply via fuse F48 of the engine compartment junction unit B002 and is connected to the cab earth C100 via pin 4.

## FRONT ELECTRIC WINDOWS - WIRING DIAGRAM



Component code	Description	Reference to the assembly
B002	JUNCTION UNIT UNDER DASHBOARD	Op. 5505A MULTI-FUNCTION COMPONENTS
B099	MAXI FUSE BOX ON BATTERY	Op. 5530B BATTERY AND LEADS
C022	Centre dashboard earth	-
C100	CAB EARTH	-
D228	CAB/FRONT DRIVER'S DOOR COUPLING	-
D229	CAB/FRONT PASSENGER DOOR COUPLING	-
H001	IGNITION SWITCH	Op. 5520A IGNITION SWITCH
H050	ELECTRIC WINDOW SWITCH ON FRONT PASSENGER'S DOOR	Op. 7005M FRONT ELECTRIC WINDOWS
H051	ELECTRIC WINDOWS AND REAR VIEW MIRROR CONTROLS ON DRIVER'S FRONT DOOR	Op. 7005M FRONT ELECTRIC WINDOWS
M001	BODY COMPUTER	Op. 5505A MULTI-FUNCTION COMPONENTS
N060	DRIVER'S FRONT ELECTRIC WINDOW MOTOR	Op. 7005M FRONT ELECTRIC WINDOWS
N061	RIGHT FRONT ELECTRIC WINDOW MOTOR	Op. 7005M FRONT ELECTRIC WINDOWS

## FRONT ELECTRIC WINDOWS - COMPONENT LOCATION



Component code	Description	Reference to the assembly
B002	JUNCTION UNIT UNDER DASHBOARD	Op. 5505A MULTI-FUNCTION COMPONENTS
B099	MAXI FUSE BOX ON BATTERY	Op. 5530B BATTERY AND LEADS
C022	Centre dashboard earth	-
C100	CAB EARTH	-
D228	CAB/FRONT DRIVER'S DOOR COUPLING	-
D229	CAB/FRONT PASSENGER DOOR COUPLING	-
H001	IGNITION SWITCH	Op. 5520A IGNITION SWITCH
H050	ELECTRIC WINDOW SWITCH ON FRONT PASSENGER'S DOOR	Op. 7005M FRONT ELECTRIC WINDOWS
H051	ELECTRIC WINDOWS AND REAR VIEW MIRROR CONTROLS ON DRIVER'S FRONT DOOR	Op. 7005M FRONT ELECTRIC WINDOWS
M001	BODY COMPUTER	Op. 5505A MULTI-FUNCTION COMPONENTS
N060	DRIVER'S FRONT ELECTRIC WINDOW MOTOR	Op. 7005M FRONT ELECTRIC WINDOWS
N061	RIGHT FRONT ELECTRIC WINDOW MOTOR	Op. 7005M FRONT ELECTRIC WINDOWS