

TECHNICAL SPECIFICATIONS

Supply voltage	: 12 V D.C. (rated value)
Current draw	: 5 mA on standby
Temperature range	: from - 40° C to + 85° C
Protection rating	: IP 40 (IEC 529 1989) - DIN 40050 - EN 60529
Positioning	: in passenger compartment, in a protected area

IMPORTANT

- # **Make sure no one puts their hands, arms, head, etc. between the window and the upright while the WINDOWS are CLOSING.**
- # Installation must be carried out by qualified personnel.
- # **med s.p.a.** disclaims all liability and suspends WARRANTY in the case of improper use of the product or part of it, tampering with it or combining it with devices for which NO provision has been made.

TESTING

- a. Fully open the windows.
- b. Activate the system with the remote control, following the instructions of the associated alarm unit.

CAUTION:

Remember not to leave your keys in the vehicle.

- The windows connected to **AZC 230** must close properly, even when slightly braking them with your hand. If this is not the case, increase the sensitivity of the internal "force limiting device" one level at a time (Fig. **A**), then continue from point **a**.
- c. Deactivate the system with the remote control and reopen the windows.
- d. Reactivate with the remote control, **blocking the windows with your hand; the window must stop**. If it fails to stop properly, decrease the sensitivity of the "limiting device" by one level. Fig. **A**.

A.

CAUTION:

If the window fails to close completely when the HIGH level is set, check the runners.

Carefully adjust the internal "force limiting device" **to permit blocking the windows, for safety, for instance if anyone's hands are between the upright and the window while it is closing.**

This also protects the motors, not subjecting them to any pointless stress, keeping them efficient over time.

TERMS OF WARRANTY

Technical warranty runs for one month as of the date of installation, ex works, for parts considered defective at the unquestionable judgement of **med**. This form of cover excludes external labour costs and all other burdens by whatever right.

WARRANTY holds only for appliances for which we have received a duly completed

INSTALLATION CARD.

For **AZC 230** use the WARRANTY CARD of the associated alarm unit.



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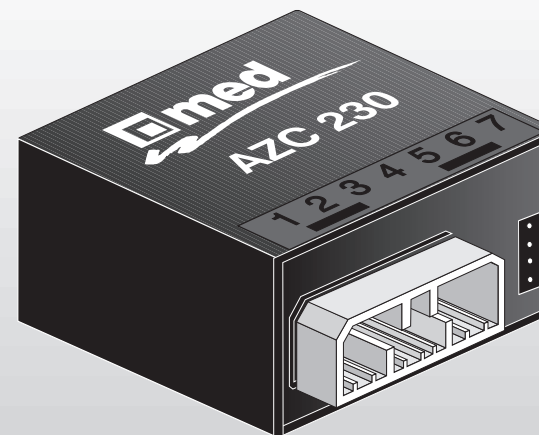
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Cod. 074.316.288 - 07/99 printed in Italy



AZC 230

WINDOW-WINDER MODULE TO CLOSE TWO POWER WINDOWS WITH
"LIFTING FORCE LIMITING DEVICE" - 12 V

Package contents:

- window winder module **AZC 230**
- customized wiring **CAV 230**
- installation and operating instructions
- installation accessories



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installation and operating instructions

Legend	
1. Module AZC 230	4. Customized multi-polar connector
2. "Lifting force limiting device" connector	5. Self-tapping screw
3. Adjustment jumper	6. Fixing lug

ASSEMBLY INSTRUCTIONS

- Set the **AZC 230** module inside the passenger compartment, in an area protected against infiltration of liquids or condensation, keeping the wiring as short as possible.
- Connect the power supply directly from the battery or from points of the original system capable of delivering **30 A**; protect the positive pole with a fuse of **30 A**. The negative pole can be connected to the chassis frame at a point made by the vehicle manufacturer, together with other earth leads: Fig. **B**.
- Locate the two power wires that directly supply each power window motor and cut them off, connecting them as shown in Figures **C** and **D**.

CAUTION:

Make sure no one puts their hands, arms, head, etc. between the window and the upright while the windows are closing, to avoid injury.

- For the safety of persons and animals **AZC 230** has special electronic sensors that cut off the power supply to the motor as soon as the window closes or **if it encounters any obstruction when closing** (for instance **an arm between the window and the upright**); it is therefore **always necessary to cut off both power wires supplying each motor** and to make the adjustment carefully.
 - If the motors are controlled via an original control unit, you must cut off the wires between this and the motors, not between the push-buttons and the control unit.
 - Meticulously observe the connections noted.
- Connect the "status signal" output to the alarm units **med 2000.K**, **med 2000.KB**, **med 3000** and **med 3000.B** to the module **AZC 230**, as directed:
 - Figure **E** for positive controls.
 - Figure **F** for negative controls.
 - Figure **G** with **med 2000.K**, **med 2000.KB**, **med 3000** and **med 3000.B**.

N.B. It is possible to connect several **AZC 230** modules, giving them the same command in parallel from the **med** alarm unit.

- On completing the electrical connections, plug in the multi-polar connector **4**, then test the system to select the most appropriate sensitivity of the internal "force limiting device" with the jumper supplied: Fig. **A**.
- After successful testing, secure **AZC 230** to a rigid support with the lug **6** using the self-tapping screw **5**, turning the side of the module with the connector downwards **4**: fig. **H**.

USER INSTRUCTIONS

- To close the windows, activate the system with the remote control, following the instructions of the associated alarm unit.
- To prevent the windows closing on activating the system, set the associated alarm unit for window winding or Radar Sensor exclusion, following the appropriate instructions.

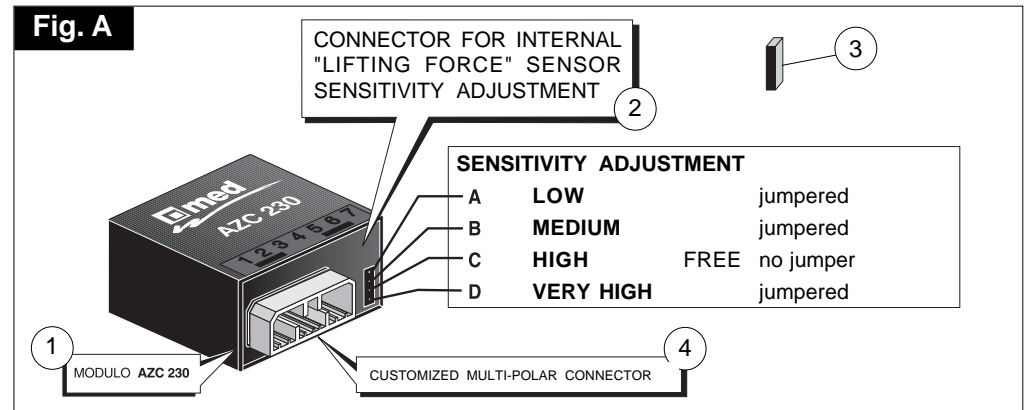
CAUTION

Excluding window winding with the alarm units **med 2000.K**, **med 2000.KB**, **med 3000** and **med 3000.B** only holds if the status signal is set as "timed" on the alarm units.

MAINTENANCE

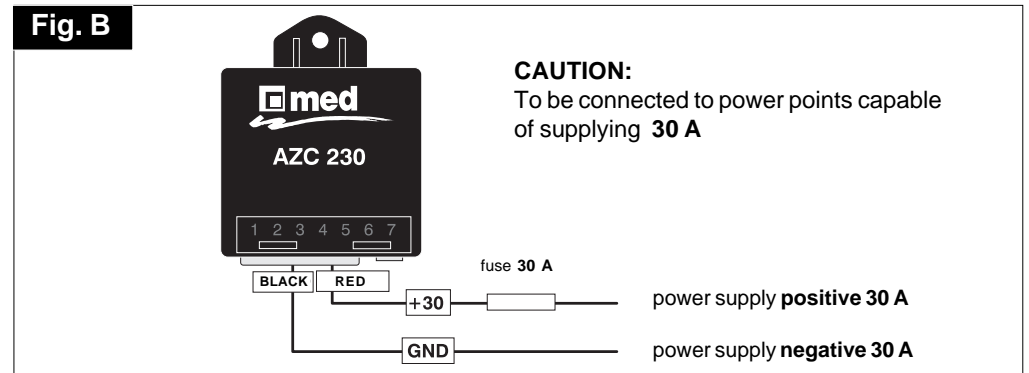
The **AZC 230** module is maintenance free.

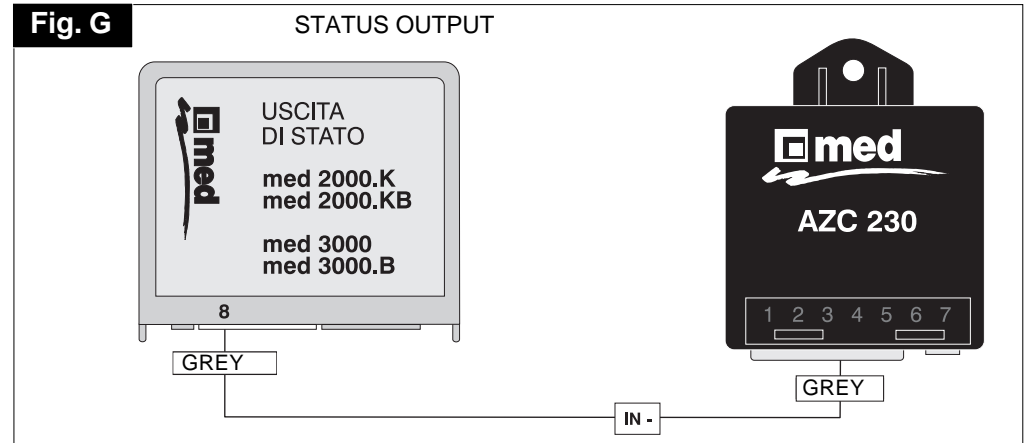
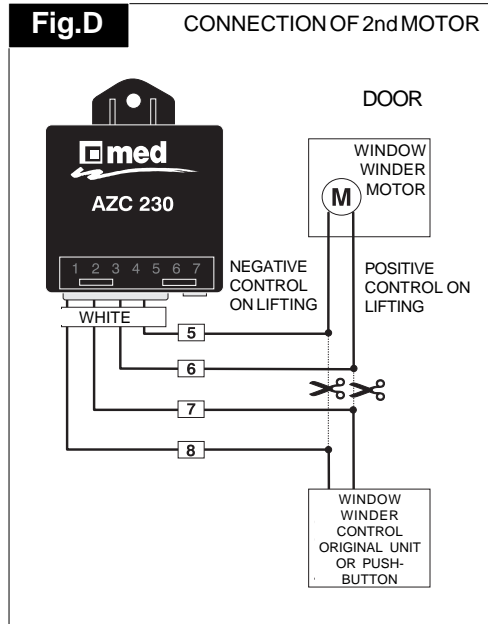
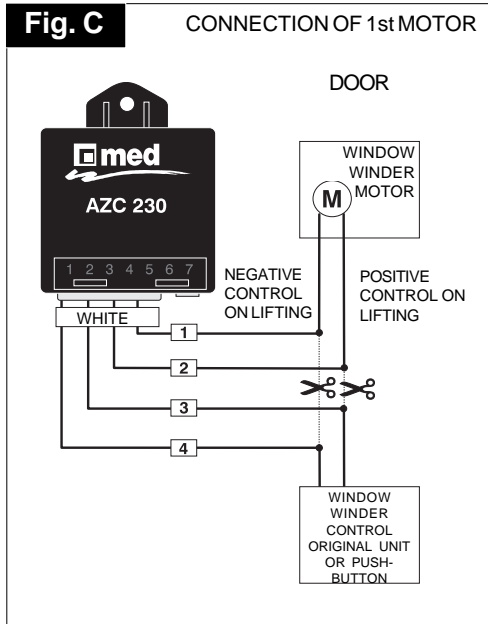
Fig. A



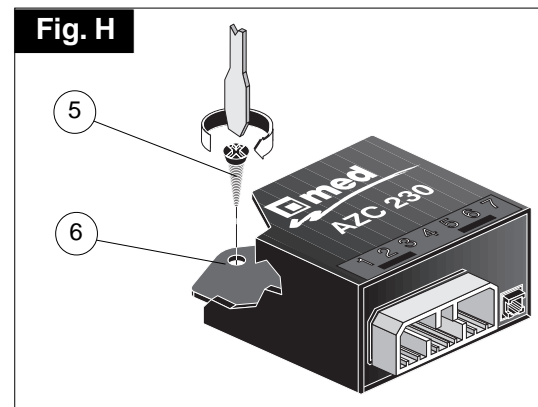
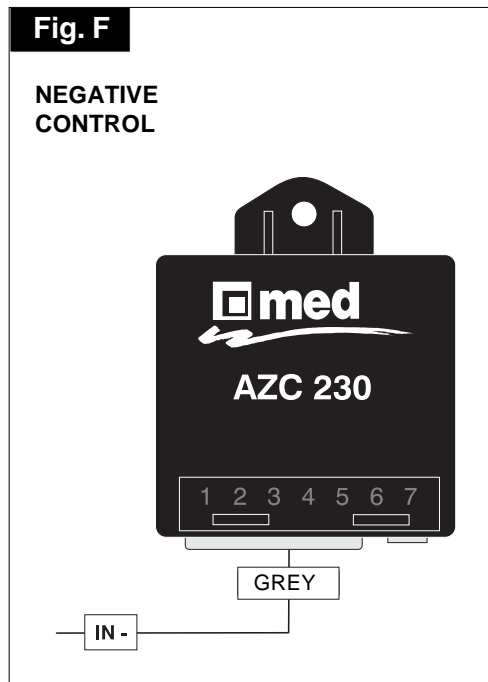
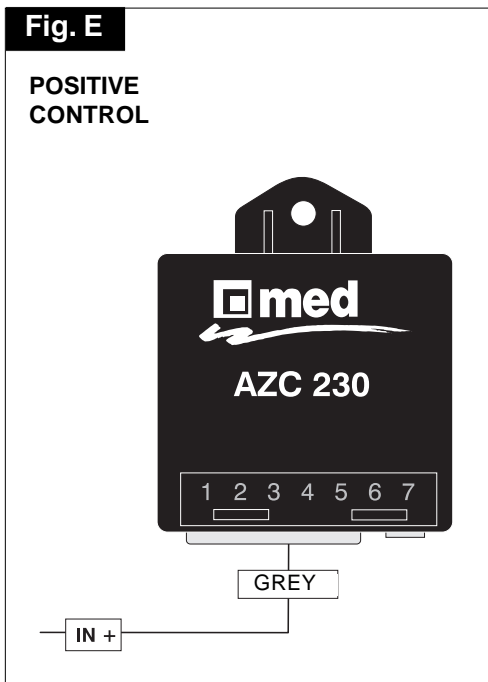
COLOUR	MARKED	DESCRIPTION	FUNCTION
BLACK	GND	negative power supply	power supply
RED	[+30]	positive power supply always present	
WHITE	1	negative on lifting towards the motor	first motor window winder
WHITE	2	positive on lifting towards the motor	
WHITE	3	positive on lifting from button or original control unit	
WHITE	4	negative on lifting from button or original control unit	
WHITE	5	negative on lifting towards the motor	second motor window winder
WHITE	6	positive on lifting towards the motor	
WHITE	7	positive on lifting from button or original control unit	
WHITE	8	negative on lifting from button or original control unit	
GREY	IN +	control POSITIVE	control window winding
GREY	IN -	control NEGATIVE	

Fig. B





CONNECTION TO ALARM UNIT med 2000



FUNCTION OF "FORCE LIMITING DEVICE"

If the remote control has door locking followed by window closing, this may be a hazard for people and animals as the driver is not in control.

It is therefore essential for the "maximum force of closing" the windows to be adjusted in order to exclude extreme events.

Some car manufacturers equip their lifting system with a "force limiting device" specifically for this purpose. Other manufacturers adopt procedures making it necessary for the driver to be present so as to guarantee control.

If you wish to activate window closing automatically after door locking and the car is not fitted with "maximum force limiters", even if it has the "COMFORT" system, or it excludes them when the "COMFORT" system is active, use the **med AZC 230** window winder module equipped with the "force limiter" (adjusting it appropriately, as per the instructions).

The **med AZC 230** window winder module has an **adjustment to limit the "maximum force of lifting"** to the values strictly necessary to lift the windows, finalized at user safety and avoiding accidents when winding up.

The **med AZC 230** window winder module is designed to control automatic closure of two power windows on all vehicles with a system operating at 12 Volts and the motor power wires accessible.