

TECHNICAL FEATURES med 58.5V - med 58.7V

Power supply	:	12 V (nominal value)
Power consumption	:	Null (with engine turned off)
		0,7 A (with engine turned on)
Temperature range	:	from - 30° C to + 100° C
Cable lenght	:	4,5 mt.
Encoder	:	connect to the central alarm system

TEST RUN

1. Check that the engine DOES NOT start without the **med** electronic key.
2. Check that the engine STARTS with the **med** electronic key installed.
3. Check that the engine does not stop running when the **med** electronic key is removed.
4. Check that the engine restarts within 3/4 seconds after having been turned off even WITHOUT the **med** electronic key.

METHOD OF USE

1. To start the engine it is necessary to insert the **med** electronic key in the proper key holder for the immobilizer.
2. When the engine is running the **med** electronic key may be removed WITHOUT the engine stopping. However, we do not advice this to be done on a regular basis.
3. The immobilizer begins to function 3/4 seconds after the engine has been turned off (see STATUS MEMORY). During this period the engine can be turned on again without inserting the **med** electronic key.

STATUS MEMORY

The **med 58.5V** and **med 58.7V** immobilizers, compared to traditional models are fitted with an extra function which we call "MEMORY STATUS". This function REMEMBERS and MEMORISES the conditions (state) of the running engine.

As a result, it is advisable that in removing the **med** electronic key this does not stop the engine. If the engine is stopped with the ignition key, the immobilizer device's MEMORY STATUS allows the restarting of the engine within 3/4 seconds without the electronic key.

MAINTENANCE

No maintenance is required.

GUARANTEE

The TECHNICAL GUARANTEE is for one year from the date of installation with ex-works terms for those defective parts but subject to the incontestable decision of **med**.

Under this form of cover the GUARANTEE does not include costs for labour and any other type of obligation. The guarantee is only applicable for equipment for which we have received the appropriate INSTALLATION CARD properly filled in.

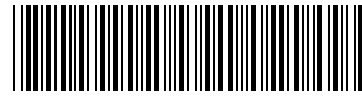
IMPORTANT: this immobilizer device is supplied with 3 electronic keys and an encoder which can be linked to a central alarm system activated by a radio command.



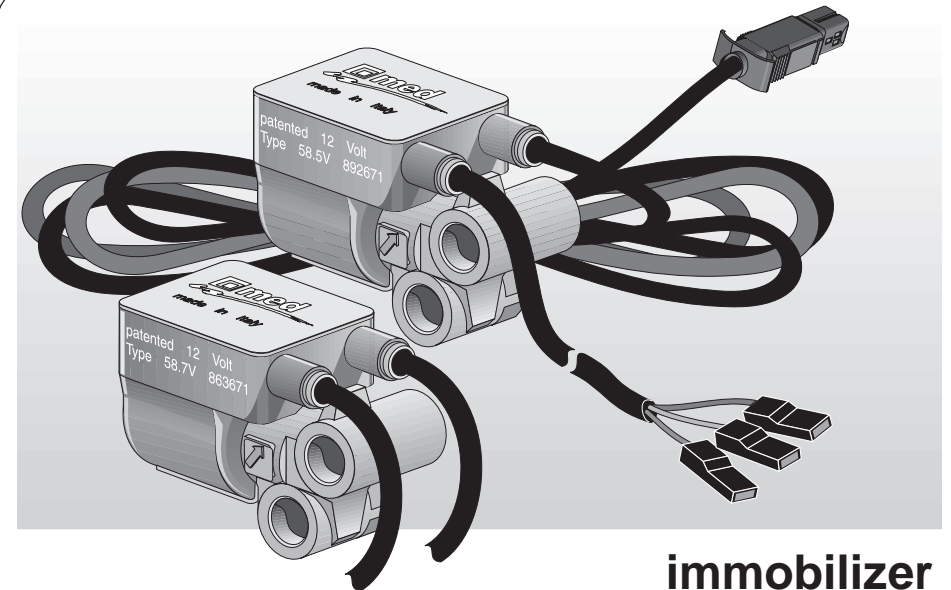
med s.p.a.
Via Raffaello, 33
42100 Reggio Emilia (Italy)



Cod. 585.316.259 01/98



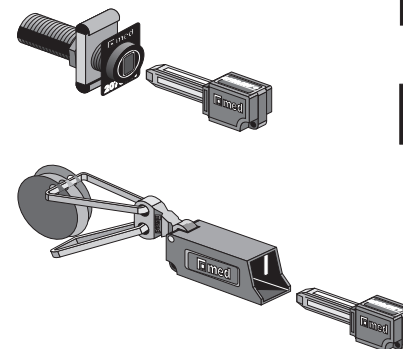
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immobilizer

med 58.5V

med 58.7V



assembly instructions

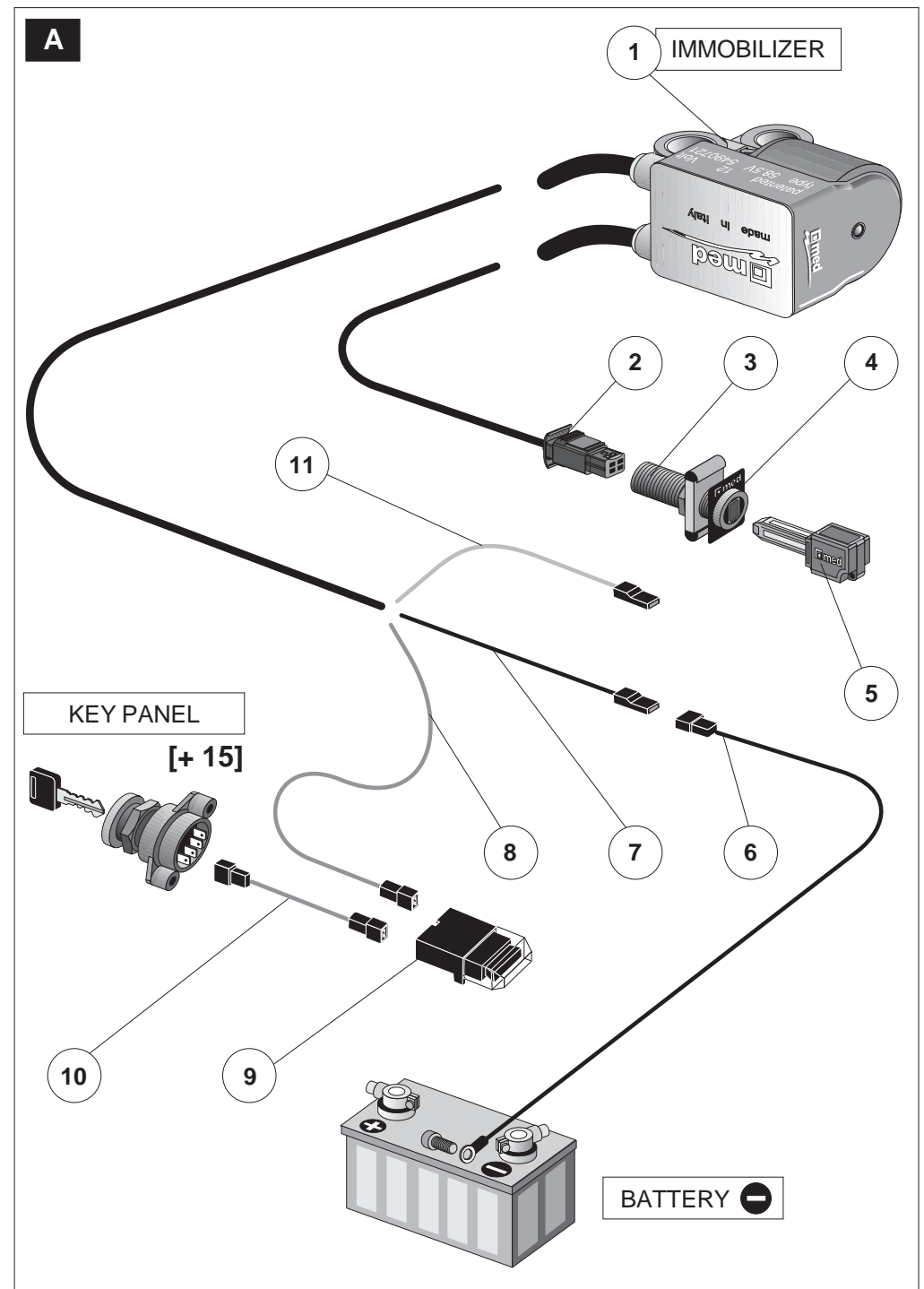
List of parts in the pack:

med immobilizer with cable
Assembly instructions
Key holder bag
Bag with electronic accessories
Bag with 2 keys
Bag with reserve key and Encoder

IMMOBILIZER DEVICE FOR DIESEL FUELLED VEHICLES WITH 12 V AND CAN BE LINKED TO A CENTRAL SYSTEM WITH REMOTE CONTROL.

Legend		
1.	Immobilizer med 58.5V - med 58.7V	7. Black immobilizer cable
2.	med four-pole connector	8. Brown immobilizer cable [+ 15]
3.	med electronic key socket	9. Fuse holder
4.	Key identification plate	10. Brown extension cable [+ 15]
5.	med electronic key	11. Green immobilizer cable
6.	Black extension cable	

1. Mount the **med** immobilizer following the instructions that are found with the application coupling KIT.
2. Carry out a preliminary trial run of the equipment by provisionally connecting the key holder **3** to the connector **2**, by connecting the black cable **7** via the extension cable **6** and the brown cable **8** to a permanently fitted **[+15]** fuse holder **9** and the extension cable **10** as a link (see TEST RUN and METHOD OF USE).
3. Only when the above trial gives a positive result should the immobilizer be completely fitted as indicated in the instruction leaflet accompanying the couplings KIT.
4. Extend and fit the two immobilizer cables by following the best path to connect to the key holder **3**; when fixing the cables avoid hot parts or parts which can damage the cables or the connector.
5. Fit the **med** electronic key holder **3** on the dashboard. Leave the key identification plate **4** visible and at the back of this insert the four pole connector **2**.
6. Connect to a reliable fixing point, preferably a contact point made available by the car manufacturer, or to the negative terminal of the battery, the connection block cable **7** by using the **black** extension cable **6** and a suitable terminal.
7. Connect to a permanently fixed **[+ 15]** the **brown** cable **8** via the fuse holder **9** and the **brown** extension cable **10**.
8. Cut the **[+ 50]** of the starter motor using **NC** type contact relay (Normally Closed), for example a **BOSCH 0 332 204 125** relay, following the relevant instructions in figure **B**. With an electronically controlled pump break the positive current supply **[+ 15]** of the control unit figure **C**.



RELAY CONNECTION OPTIONAL FOR STARTING UNIT

Legend

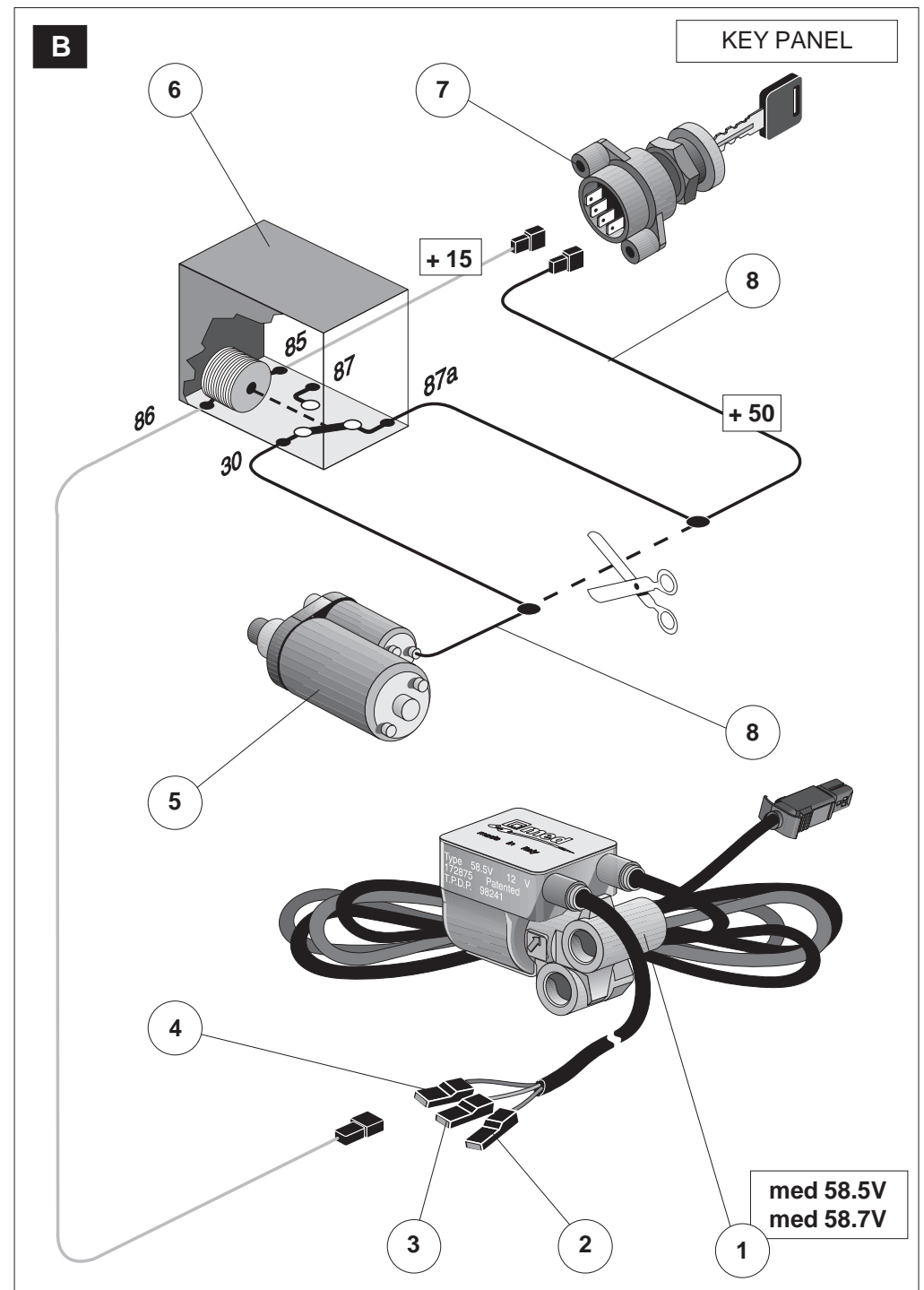
1. Immobilizer med 58.5V - med 58.7V	5. Starter motor
2. Black cable (connection)	6. 30A relay optional
3. Brown cable [+ 15]	7. Key panel
4. Green cable immobilizer	8. Original cable [+ 50]

The optional relay with **NC** contact (Normally Closed) stops the command to the starter motor thus preventing it from functioning when an attempt to start the engine is made with the immobilizer activated.

ASSEMBLY INSTRUCTIONS

1. Follow the diagram in figure B.
2. Use a **30A** relay (for example **BOSCH 0 332 204 125**).
3. Connect the positive panel **[+ 15]** present also in the start phase, to terminal **85** of the optional relay **6**.
4. Connect the **green** cable **4** of the **med** immobilizer **1** to terminal **86** of the optional relay **6**.
5. Use terminals **30** and **87a** (Contact Normally Closed) of the optional relay **6** to interrupt the command to the starter motor **[+ 50]**.

For the connection use cables with a minimal section of 2 mm.²



CONNECTION OF THE OPTIONAL RELAY WITH AN ELECTRONICALLY CONTROLLED INJECTION PUMP.

POWER SUPPLY INTERRUPTION [+ 15] TO THE MANAGEMENT UNIT OF THE INJECTION PUMP.

Legend	
1. Immobilizer med 58.5V Immobilizer med 58.7V	5. Management unit of the injection pump
2. Black cable (connection)	6. Optional 30A relay
3. Brown cable [+15]	7. Key panel
4. Green cable immobilizer	8. Cable [+15] to feed unit

The optional relay with a NC contact (Normally Closed) interrupts the power supply [+15] to the electronic management unit of the injection pump when an attempt to start the engine is made with the immobilizer activated.

ASSEMBLY INSTRUCTIONS:

1. Follow the diagram in figure C.
2. Use a 30A relay (for example BOSCH 0 332 204 125).
3. Connect the green cable 4 of the immobilizer 1 to terminal 86 of the optional relay 6.
4. Use terminal 30 and 87a (Contact Normally Closed) of the optional relay 6 to interrupt the positive panel [+15] (present also in the starting phase) of the power supply to the electronic unit 5.
5. Connect the positive panel [+15] also to terminal 85 of the relay 6 (use the wire that comes from the start block).

