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## 7. CONNECTION OF 565 MPS ELECTRONIC CARD

**IMPORTANT: Before attempting any work on the card (connections, programming, maintenance), always turn off power.**

Observe points 10, 11, 12, 13 and 14 of the GENERAL SAFETY RULES.

Observing the indications in fig.2, install the raceways and make the electrical connections from the 565 MPS electronic appliance to the selected accessories (fig. 28).

Always separate power cables from control and safety cables (push-button receiver, photocells, etc.). To prevent any electric noise whatever, use separate sheaths.

### TECHNICAL SPECIFICATIONS

| | |
|---|---|
| **Power supply voltage** | 230V ac 50Hz |
| **Power supply for accessories** | 24Vdc |
| **Accessories max. load** | 200 mA |
| **Ambient temperature** | -20°/+55°C |
| **Fuses** | transf./motor primary winding |
| **Quick-fit connector** | for decoding cards and RPreceivers |
| **Function logics** | Automatic/Semi-automatic |
| **Terminal board connections** | Open/Stop/Safety devices/Fail-safe/ Flashlight |

### 565 MPS CARD COMPONENTS

| | |
|---|---|
| **F1** | Fuse for transf. primary winding, 1A |
| **F2** | Motor fuse, 10A |
| **F3** | Fuse for 0,5A accessories output |
| **J1** | Low voltage terminal board for inputs /accessories |
| **J2** | Rapid connector for decoding/RP receivers cards |
| **J3** | 230V power supply input terminal board |
| **J4** | Connector for transformer primary winding |
| **J5** | Courtesy light connector |
| **J6** | Flashlight output terminal board |
| **J7** | Connector for transformer secondary winding |
| **J8** | Motor output connector |
| **P1** | Open push-button |
| **P2** | Set-up push-button |
| **LK1** | Enable/disable fail-safe |
| **LK2** | Varies sensitivity of reversing device |

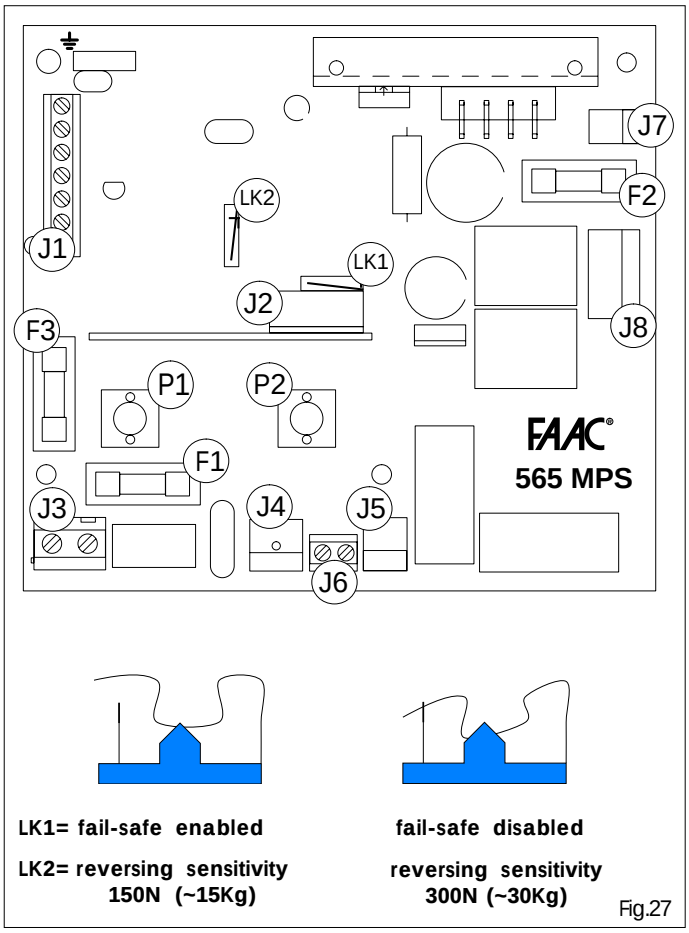

Fig.27

### DESCRIPTION

**TERMINAL BOARD J1 (low voltage)**

**OPEN=Open Command (N.O.)**

Any device (push-button, detector,...) which, by closing a contact, supplies an opening (or closing) pulse to the door.
To install several Open devices, connect N.O. contacts in parallel.

**STOP=Stop command (N.C.)**

Any device (e.g. a push-button) which, by opening a contact, stops door movement.
To install several stop devices, connect the N.C. contacts in series.
**N.B.: if stop devices are not used, jumper connect STOP to the inputs common contact.**

⊖ =input/negative accessories supply common contact.
⊕ =Accessories supply positive pole (24V dc 200mA max)

**FSW= Closing safety-devices contact (N.C.)**

Safety devices are all devices (photocells, sensitive edges,...) with N.C. contact, which, if there is an obstacle in the area they protect, operate to reverse door closing movement.
If the safety devices are activated when the door is locked or open, they prevent it from closing.
To install several safety devices, connect the N.C. contacts in series.
**N.B.: if safety devices are not connected, jumper connect FSW to the inputs common contact**.

**-FSW TX**= Terminal for connection of the negative pole (-) of the photocells transmitter (TX).

**CONNECTOR J2 (low voltage)**

Connector J2 is used for rapid connection of MINIDEC, DECODER, and RP RECEIVER cards.
Insert and remove the cards after cutting power.

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**TERMINAL BOARD J3 (high voltage)**

Terminal board for power supply of 230V ~50Hz (F=phase N= neutral)

Connect the system's earth wire to the dedicated terminal (see ID sticker – fig.31 ref.A).

**TERMINAL BOARD J6 (high voltage)**

230V~ Terminal board for connection of flashlight.

**LK1 JUMPER (enable/disable fail-safe)**

The 565 MPS card has another safety device – the FAIL-SAFE – which, prior to any activation, controls if the N.C. contact on the photocell receiver (fig.27) is operating efficiently.

**JUMPER LK2 (150N/300N)**

Serves to vary the sensitivity of the reversing device (fig. 27).

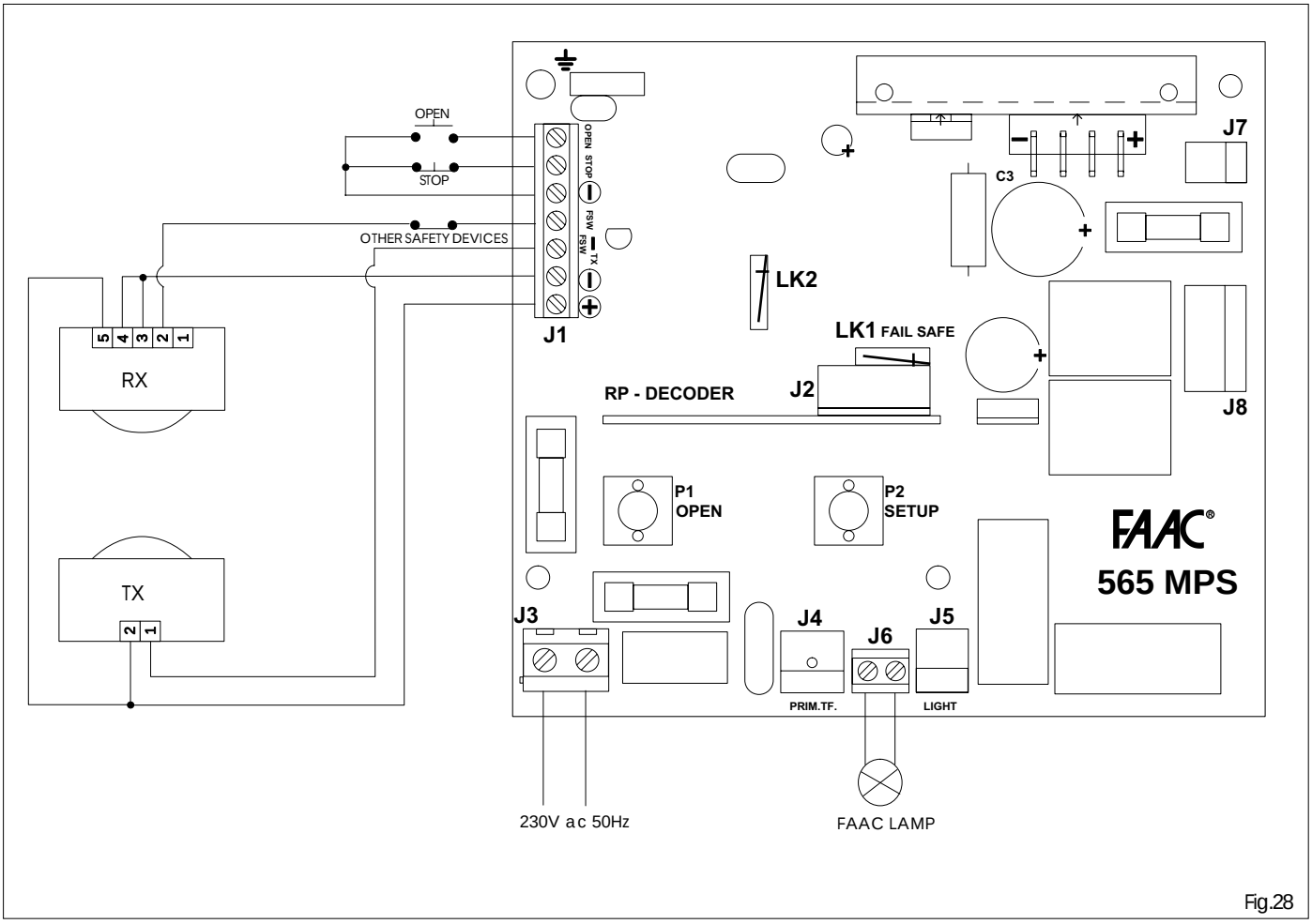


Fig.28

**8. ANTENNA INSTALLATION (OPTIONAL)**

8.1 If you are using an RP receiver, and wish to increase its range, you can use an external 433 MHZ antenna (antenna connection instructions are on the rear of the RP receiver blister-pack).

8.2 Pick up the housing and, using an appropriate bit, drill from the inside outward in the guided area (fig. 29).

8.3 Turn the housing toward the front, fit the antenna and secure it from the inside with a suitable nut (fig. 30).

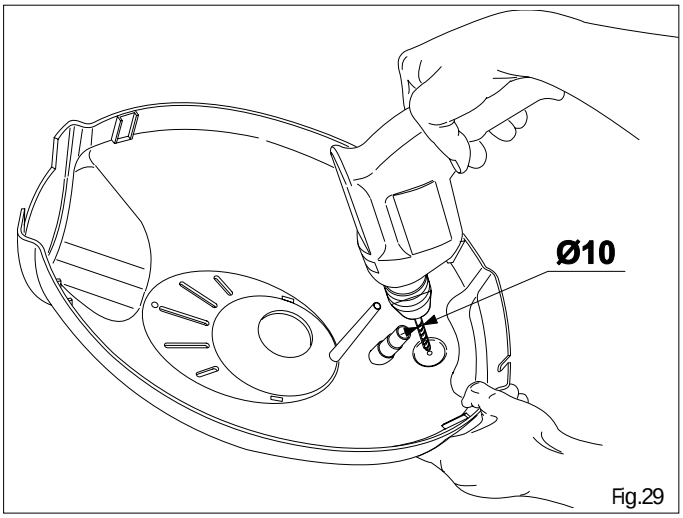


Fig.29

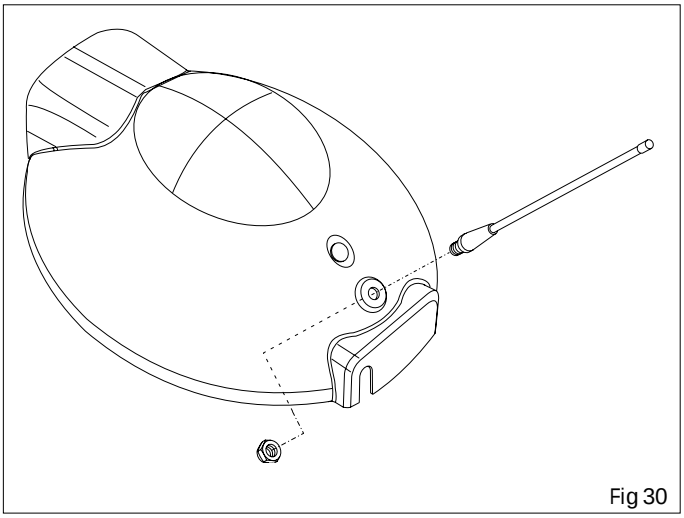

Fig 30

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**9. CONNECTIONS**

9.1 Connect the power cable, as shown in figure 31, securing it with a clamp in the indicated area.

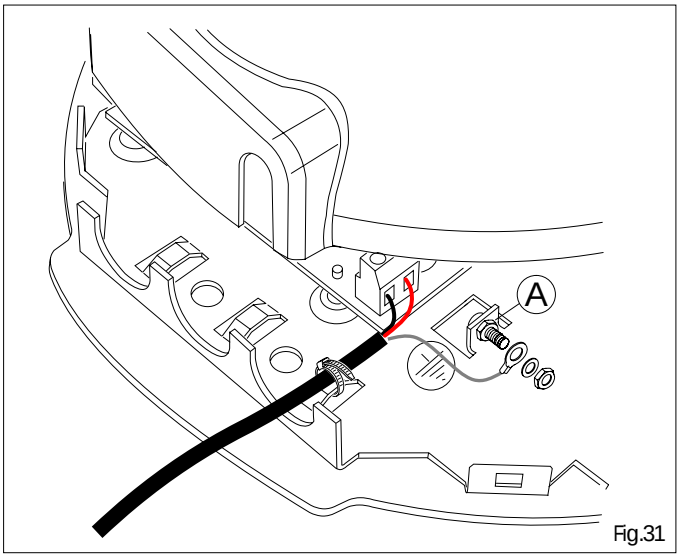

Fig.31

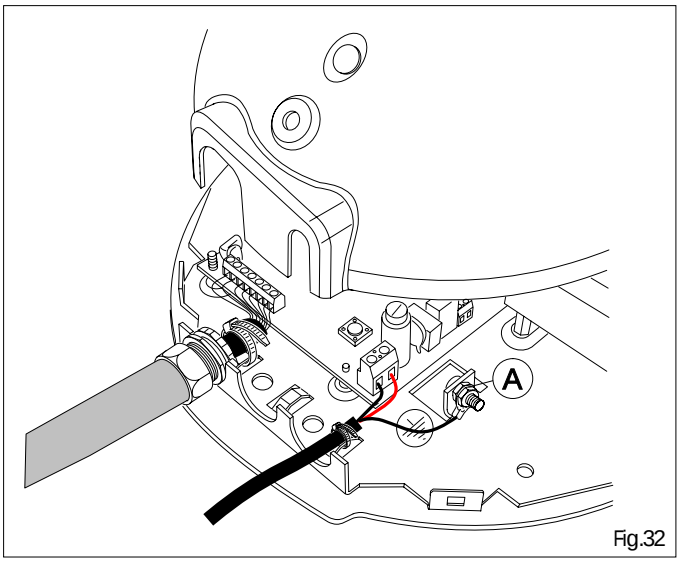

Fig.32

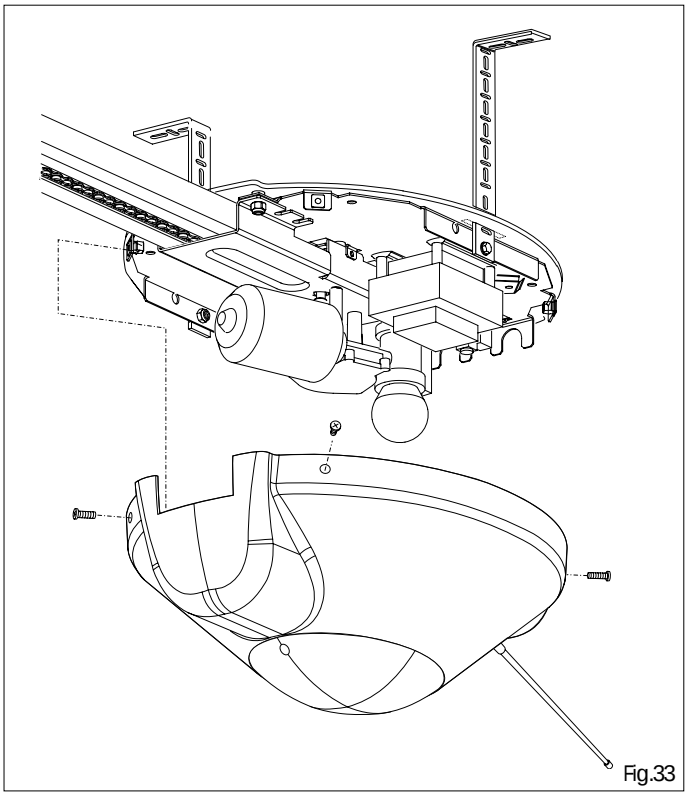
Fig.33

9.2 Fit the screw in the appropriate seat and tighten with washer and nut (fig.31 ref.A).

9.3 Position the earth eyelet on the screw, add a washer and tighten wit the nut (fig. 32 ref.A).

9.4 If you are using tube sleeves to secure the cables, make a slot as shown in figure 32.

9.5 Screw the lamp in the appropriate lamp-holder.

9.6 Secure the operator housing using appropriate screws (fig.33).

**10. PROGRAMMING**

To access the programming push-button, dismantle the courtesy light ceiling fixture, unscrewing the appropriate screw.
Slide the ceiling fixture in the direction shown by the arrow (fig.34).

**SET-UP CYCLE**

During this procedure, the obstacle detection and Fail-safe device are NOT operating.
The set-up cycle defines:
- anti-crushing safety levels during opening and closing
- deceleration points
- door complete opening and closing point
- pause time

This procedure can be carried out at any time, with the operator in any position, by means of the set-up push-button (see different set-up modes).
Set-up occurs with a max. force of 800N. If the force is not sufficient to complete the learning, it can be increased to 1200N by activating, during the 800N cycle, a second set-up procedure (by pressing the set-up push-button again as indicated in the different modes).
Two function logics are available on this appliance:
AUTOMATIC (TABLE 1)
SEMI-AUTOMATIC (TABLE 2)

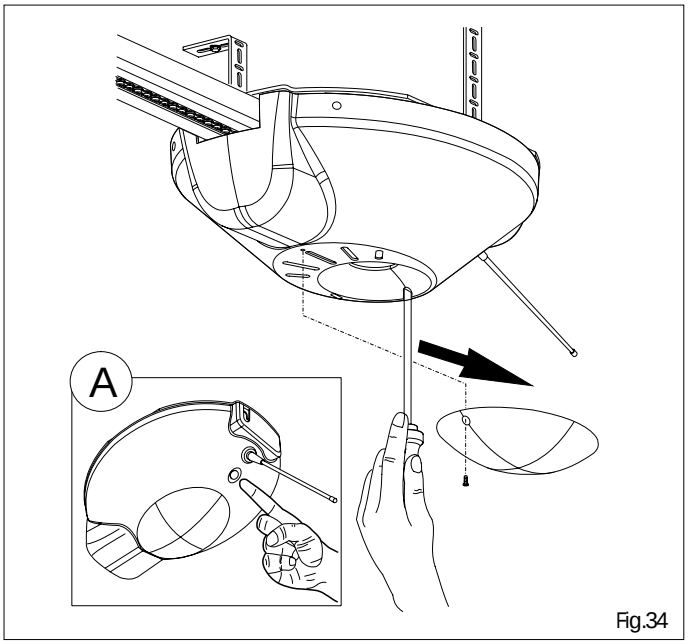

Fig.34

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**AUTOMATIC SET-UP**
The set-up procedure is executed automatically just with a pulse.

**MANUAL SET-UP**
This procedure enables you to select the deceleration points, the fully open point, and pause time.

**AUTOMATIC SET-UP WITH LOGIC "E" (SEMI-AUTOMATIC)**

Press and release the SET-UP push-button to select the logic.
After 8 seconds the operator effects a closing operation until a stop is detected.
The operator now opens the door, and the opening movement finishes when the mechanical stop is recognised.
The door is immediately closed.
The electronic appliance establishes the deceleration points.
If the SETUP procedure was **successful**, the courtesy lamp stays lighted for 5 seconds. During this time, in order to reduce the load on the release system, open pulses can be sent within 2 seconds of each other to reverse the release carriage. A pulse equals travel of 5 millimetres.
N.B.: the carriage can be seen to reverse only when the automated system is operating normally.

**MANUAL SET-UP WITH LOGIC "E" (SEMI-AUTOMATIC)**

Press and release the SET-UP push-button to select the logic. Carry out the following procedure within 8 seconds after pressing the SETUP push-button, otherwise the oprator will execute automatic SETUP.
1st OPEN: the operator effects a closing operation until a stop is detected.
2nd OPEN: the operator continues with an opening movement.
3rd OPEN: defines the point at which start of deceleration is required.
4th OPEN: defines the end of the opening** movement.
5th OPEN: starts closing movement.
6th OPEN: defines the point at which start of deceleration is required.
Allow the operator to reach the stop.
If the SETUP procedure was **successful**, the courtesy lamp stays lighted for 5 seconds. During this time, in order to reduce the load on the release system, open pulses can be sent within 2 seconds of each other to reverse the release carriage. A pulse equals travel of 5 millimetres.
N.B.: the carriage can be seen to reverse only when the automated system is operating normally.

**AUTOMATIC SET-UP WITH LOGIC "A" (AUTOMATIC)**

Hold down the SET-UP push-button to select the logic until the courtesy light goes on (about 5 seconds).
After 8 seconds the operator effects a closing operation until a stop is detected.
The operator now opens the door, and the opening movement finishes when the mechanical stop is recognised.*
The door is immediately closed.
The electronic appliance establishes the deceleration points, and pause time is fixed at 3 minutes.
If the SETUP procedure was **successful**, the courtesy lamp stays lighted for 5 seconds. During this time, in order to reduce the load on the release system, open pulses can be sent within 2 seconds of each other to reverse the release carriage. A pulse equals travel of 5 millimetres.
N.B.: the carriage can be seen to reverse only when the automated system is operating normally.

**MANUAL SET-UP WITH LOGIC "A" (AUTOMATIC)**

Hold down the SET-UP push-button to select the logic until the courtesy light goes on (about 5 seconds). Carry out the following procedure within 8 seconds after pressing the SETUP push-button, otherwise the oprator will execute automatic SETUP.
1st OPEN: the operator effects a closing operation until a stop is detected.
2nd OPEN: the operator continues with an opening movement.
3rd OPEN: defines the point at which start of deceleration is required.
4th OPEN: defines the end of the opening movement and starts the pause time count** (3 minutes max.).
5th OPEN: interrupts the pause time count and starts the closing movement.
6th OPEN: defines the point at which start of deceleration is required.
Allow the operator to reach the stop.
If the SETUP procedure was **successful**, the courtesy lamp stays lighted for 5 seconds. During this time, in order to reduce the load on the release system, open pulses can be sent within 2 seconds of each other to reverse the release carriage. A pulse equals travel of 5 millimetres.
N.B.: the carriage can be seen to reverse only when the automated system is operating normally.

* Otherwise, an OPEN pulse may replace the stop.
** Otherwise, the stop can be used during opening.

**IMPORTANT: At set-up, if the operator does not effect any movement when the OPEN push-button (see fig.34 ref. A) is pressed, check that the housing is in correct position.**

**FUNCTION LOGICS**

Table 1 AUTOMATIC Logic

| OVERHEAD DOOR | OPEN | STOP | SAFETY DEVICES |
|---|---|---|---|
| CLOSED | Opens and closes after the pause time | No effect** | No effect |
| OPEN FOR PAUSE | Restarts pause time count* | Locks * | Restarts pause time count* |
| CLOSING | Reverses motion | Locks ** | Reverses motion |
| OPENING | No effect | Locks ** | No effect * |
| LOCKED | Closes | No effect** | No effect * |

Table 2 SEMI-AUTOMATIC Logic

| OVERHEAD DOOR | OPEN | STOP | SAFETY DEVICES |
|---|---|---|---|
| CLOSED | Open | No effect** | No effect |
| OPEN | Closes | No effect** | No effect * |
| CLOSING | Reverses motion | Locks ** | Reverses motion |
| OPENING | Locks | Locks ** | No effect * |
| LOCKED | Closes | No effect** | No effect * |

* Prevents closing if pulse is maintained
* Prevents closing and/or opening if pulse is maintained

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When installation has been completed, check the efficiency of the automated system and safety devices, and then apply the "danger" warning sticker (fig.35) on the panel of the up-and-over door to make it easy to see.

Apply the sticker, which indicates the release device of the automated system (fig.35).

**11. OPTIONAL ACCESSORIES**

• If you are using the card for the CN60-E Sensitive Edge, a compartment is provided for it inside the operator housing in the position shown in figure 36.

• Floating batteries installation procedure: fit them on the operator with the appropriate bracket, and secure them with screw and nut in the position shown in figure 37.

ATTENTION! If replacing batteries, cut out electrical power before attempting any operation.

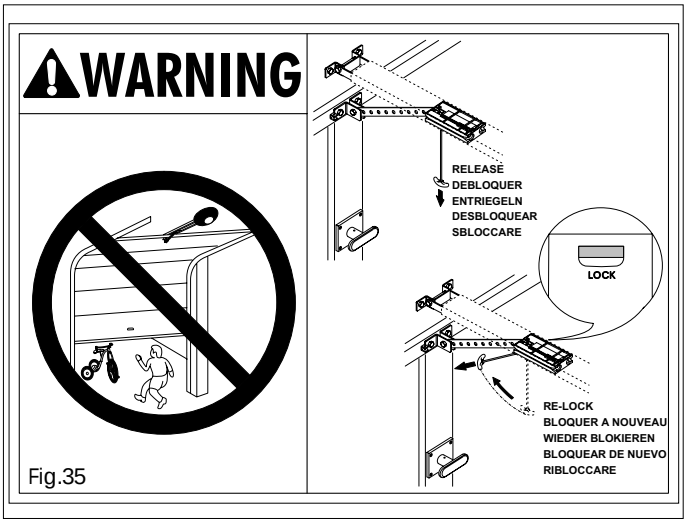

Fig.35

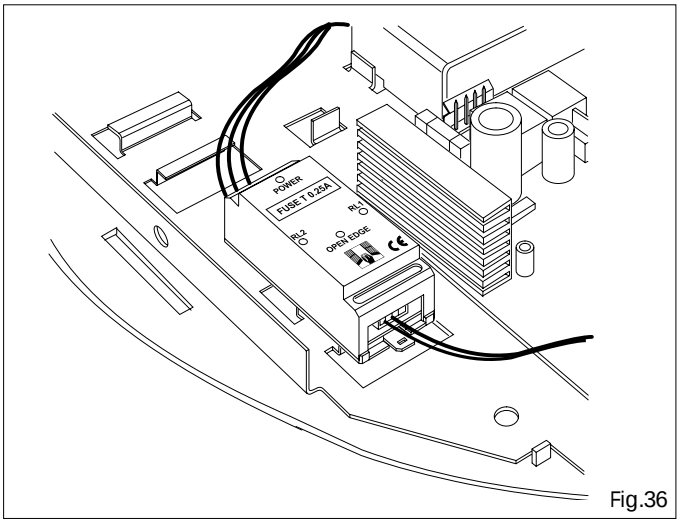

Fig.36

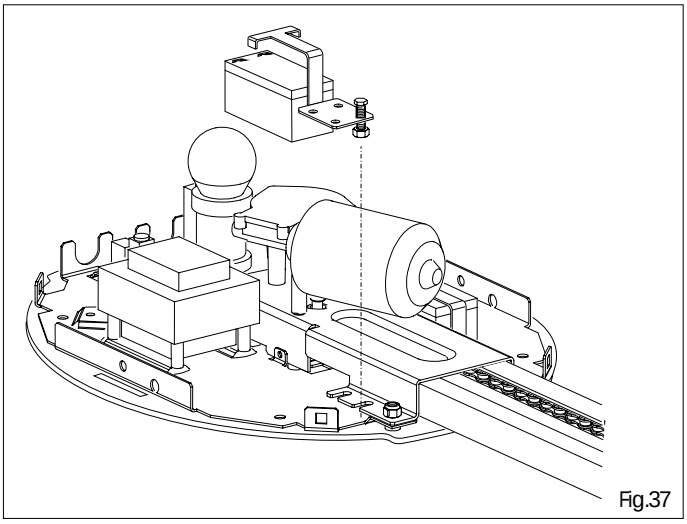
Fig.37

• Two external release systems can be fitted:
- with handle (fig.38 ref.A)
- with wrench (fig.38 ref.B)

• Counterbalanced doors can be automated by using the accessory shown in fig. 39 (GDA 3000).

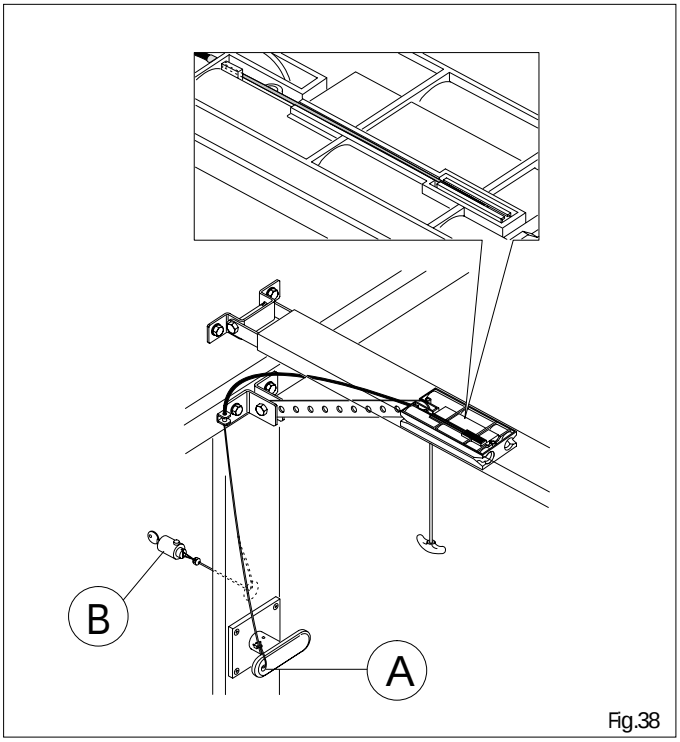

Fig.38

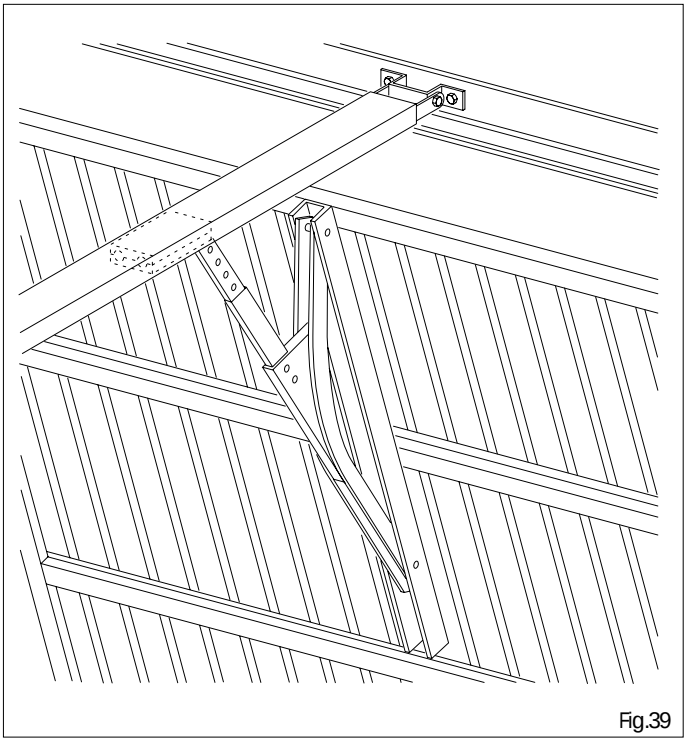
Fig.39