BARRIER GATE AUTOMATION

BGV 30-45-60

This product complies with the recognised technical standards and safety regulations. We declare that this product is in conformity with the following European Directives: 89/336/EEC and 73/23/EEC and subsequent amendments.

INSTRUCTIONS FOR FAST BARRIER MOD. BGV

Automatic barrier consisting of:
- Bar with signal stripes
- Box
- Worm gearmotor
- Spring balancing system
- Adjustable limit switch system
- Control panel with motor brake device
- Optional: Anchoring counterbase

Right-hand automatic gate
When ordering, please specify right hand or left hand installation

TECHNICAL FEATURES
- Motor: 4-poles 230V +/- 10%, 50Hz, continuous service (during cycle 40%).
- Absorption: 0,94 A at 230V - (400V motor upon request).
- Ratio: 1/240 mod. BGV30 - 1/570 mod. BGV45 - 1/1200 mod. BGV60

Mod. BGV30: 3 m maximum bar length, gearmotor torque: 150 daN.m. 3 sec. opening time.
Mod. BGV45: 4.5 m maximum bar length, gearmotor torque 174 daN.m. 6 sec. opening time.
Mod. BGV60: 6 m maximum bar lenght, gearmotor torque 190 daN.m. 12 sec. opening time.
N.B. The collapsible fence and pneumatic skirt can be applied only for BGV45 and BGV60 with 1 m shorter bar.

APPLICATIONS

AP - Rest upon request.
F - Equipped with fixed fork rest.
P - Base plate on request.
S - Set up collapsible fence.
A - Articulated barrier, recommended where there are height problems.
FOR PROPER INSTALLATION, CAREFULLY OBSERVE THE FOLLOWING INSTRUCTIONS:

1) ANCHORING OF BASE

Dig a hole in which to put the anchoring base. It will have to be positioned in such a way that:
- Flexible sheath G of the mains cable leads through hole F of the base in correspondance to the hole of the box
- Levelled to L so as to be perfectly horizontal and raised at least 2 cm. from the ground surface.

Anchor the base to the ground with concrete after having fastened the 4 stud bolts P for fastening to the box. (See figure 1)

2) ASSEMBLING AND BALANCING OF BAR

Insert the bar in-between the two coupling plate P (see fig. 2) until you achieve the proper L width and then fasten it with the screws V. The gate is already balanced when supplied. In case you should use a shorter bar, slightly loosen spring M (see Fig. 3) by loosening the T tie-rod.
ATTENTION: make sure that the spring is perpendicular to the plane (fig. 3A).

3) ARRANGEMENT OF ELECTRICAL SYSTEM (see fig. 4)
- B: Gate Mod. BGV
- Q: Control Panel
- P: Wall push-button Mod. PE2
- A: Antenna
- L: Blinker Mod. PULSAR AS
- S: Key selector Mod. PC2
- I: Main line switch with 5 amp fuse protection
- L: Flasher with antenna
- Fti: Transmitting photocells to be fit at a height of 40 to 60 cm
- Fri: Receiving photocells to be fit at a height of 40 to 60 cm.

4) ADJUSTMENT OF LIMIT SWITCH

The manufacturer supplies the gate with 90° opening, however
if you wish to change this, proceed as follows:
a) Place the bar in the wanted closing position
b) Loosen the dowel G (see Fig. 5)
c) Move cam Cc against the microswitch MC until you hear a click.
To adjust the opening, proceed as above but move cam Ca instead.
N.B. The gate is exclusively supplied with the special control unit with electric brake for a perfect locking position when bar reaches end of stroke which otherwise could change after several manoeuvres.

5) FIRST MANOEUVRE

Position with the help of the crank (see emergency manoeuvre) the rod at about half of its stroke. Remove the crank and turn on the power. Hold the door safety push-button pressed. Press the start push-button and check that the limit switches operate as to the running direction of the motor. If not, invert the phases.

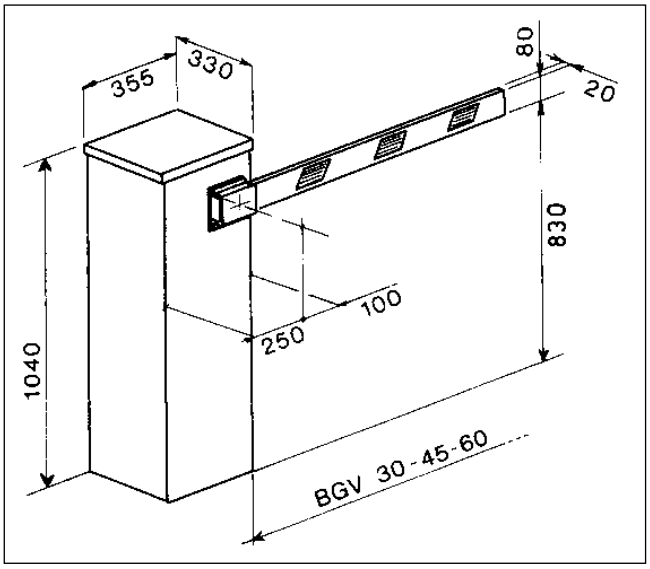
6) EMERGENCY MANOEUVRE

If for some reason the bar must be manually opened, open the control box door and with the speciai key C (see Fig. 6) turn the motor shaft A counter-clockwise. After having turned it 60 times, the gate should open at about 90°.
N.B. By opening the control box door, a safety microswitch which prevents the electric start of the motor is actuated.

WARNING

The perfect operation of the operator is garanteed only if the following points are observed:
- We advise not to shorten the rod more than 20 cm to avoid altering the balancing of the spring
- To prevent overheating of the motor during the summer season and stepping-in of the thermal protection, the barrier must not be submitted to more than 40% service.

The firm will not to be liable for damages due to the non-observance of the above points.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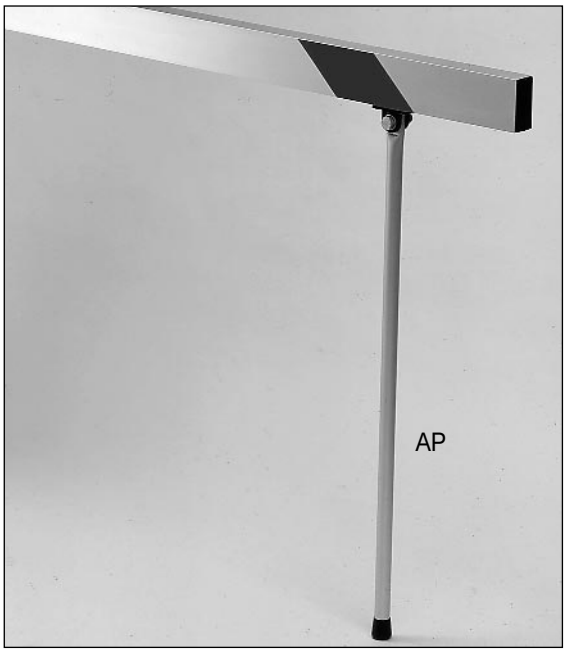
AP

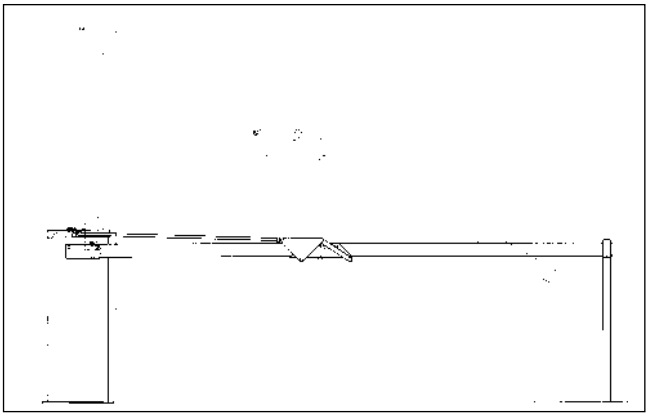

Fig. 1

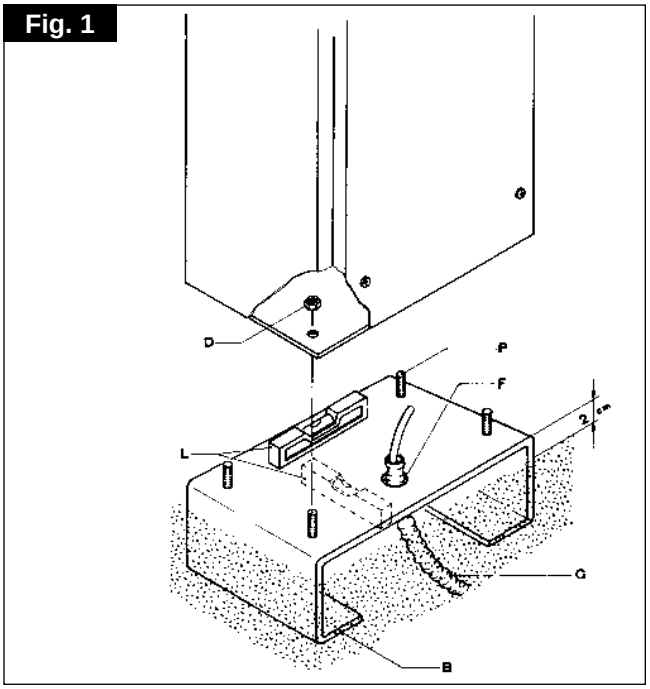

Fig. 2

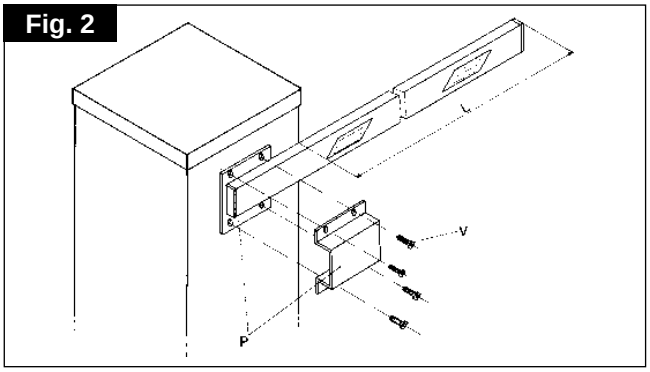

Fig. 4

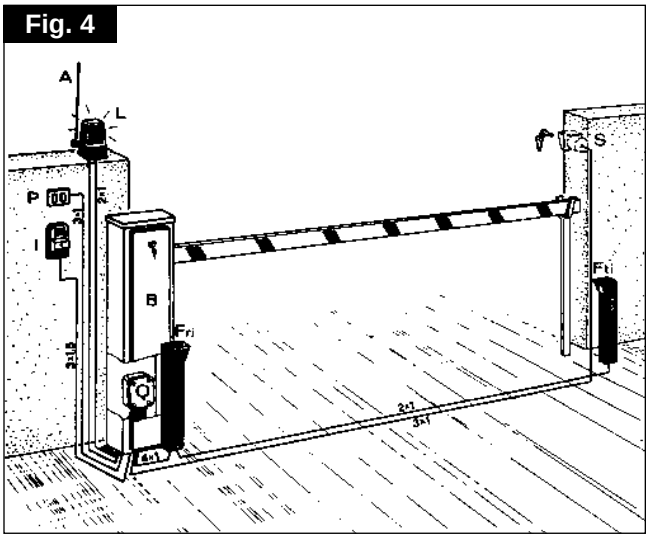

Fig. 3

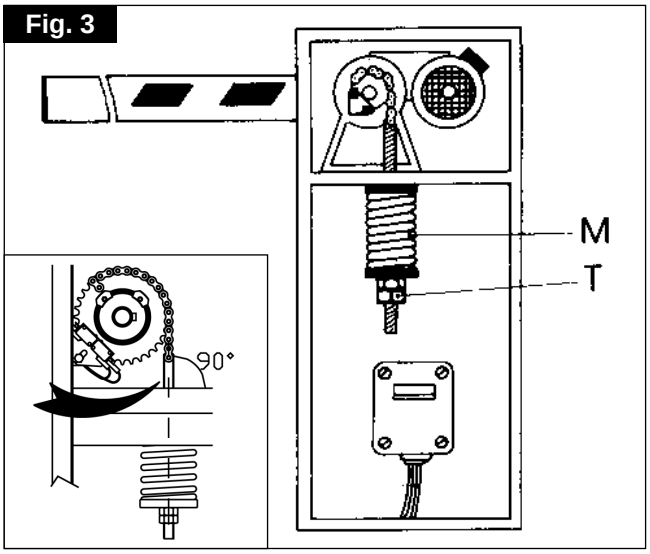

Fig. 5

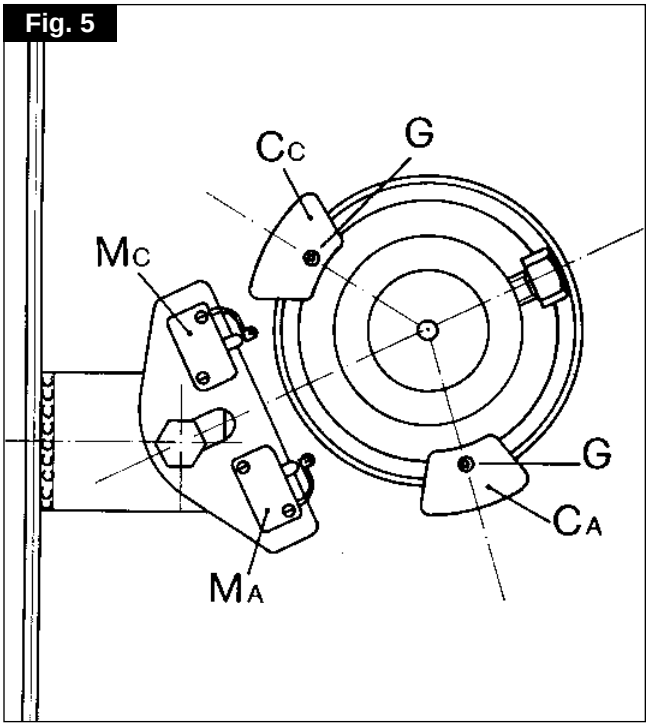

Fig. 6