



Motor gear for swing gates

INSTRUCTION MANUAL

MADE IN ITALY

1 - GENERAL DESCRIPTION

1A - WARNINGS

Unfulfilment of the below listed instructions will release the KING gates srl, from any responsibility for damage caused to people or things.

-Do not modify the product in any part.

-To optimize the functioning of the automation use KING gates accessories only.

-Installing, testing and first functioning have to observe the laws in force.

-The gear-motor doesn't require any maintenance because provided with a permament lubrification system.

-Disposal of waste material has to observe local regulations.

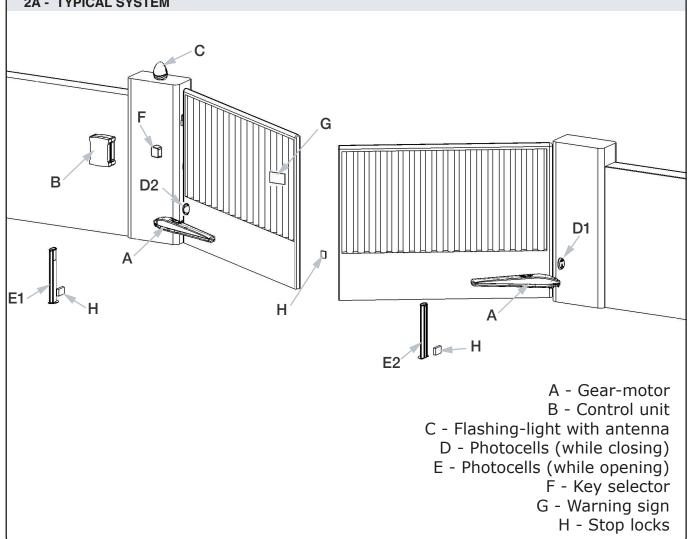
1B - AVAILABLE VERSIONS

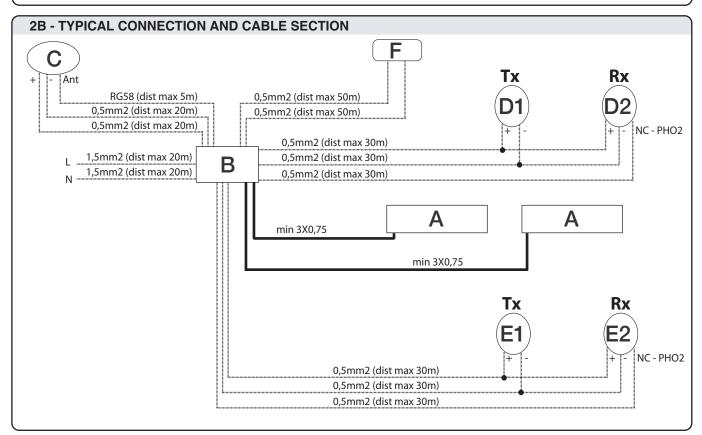
| AVAILABLE VERSIONS | | | | | | | |
|--------------------|---------|-----------------|------------|-----------------------|---------------------|--|--|
| Code | Motor | Mechanical stop | Fixing kit | Protective brushes | Wing max dimensions | | |
| Jet 230 F | 230 Vac | • (1) | • | | 3 m; 600 kg | | |
| Jet 230 S | 230 Vac | • (1) | • | | 3 m; 600 kg | | |
| Jet 24 | 24 Vdc | • (1) | • | | 3 m; 600 kg | | |
| Jet 230 F TOP | 230 Vac | • (2) | • | • | 3 m; 600 kg | | |
| Jet 230 S TOP | 230 Vac | • (2) | • | • | 3 m; 600 kg | | |
| Jet 24 TOP | 24 Vdc | • (2) | • | • | 3 m; 600 kg | | |

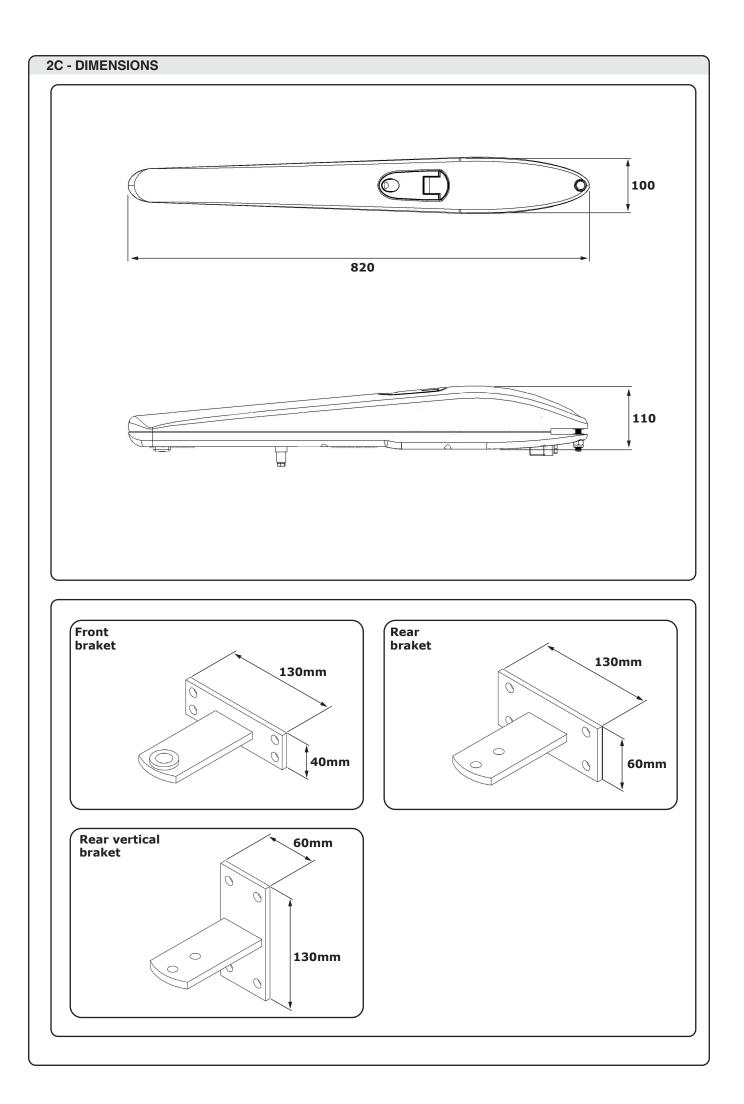
| JET – TECHNICAL DATA | | | | | | | |
|------------------------|-------------|-----------------|-----------------|---------------|--|--|--|
| Code | | JET 230 F (Top) | JET 230 S (Top) | JET 24 (Top) | | | |
| Power supply | (Vac 50 Hz) | | | | | | |
| Motor power supply | (Vac/Vdc) | 230 | | 24 | | | |
| Motor power | (W) | 200 | 170 | 50 | | | |
| Speed | (m/sec) | 0,016 | 0,01 | 0,013 ÷ 0,016 | | | |
| Journey | (mm) | 360 (300) | | | | | |
| Protection level | (IP) | 44 | | | | | |
| Motor weight | (kg) | 8 | | 7 | | | |
| Max length of the gate | (m) | 3 | | | | | |
| Max weight of the gate | (kg) | | | | | | |
| Work cycle | (%) | 30 | | 90 | | | |
| Motor dimensions | (mm) | 100x110x820 | | | | | |
| Working temperature | (°C) | -20 ÷ +55 | | | | | |

2 - TYPICAL SYSTEM

2A - TYPICAL SYSTEM



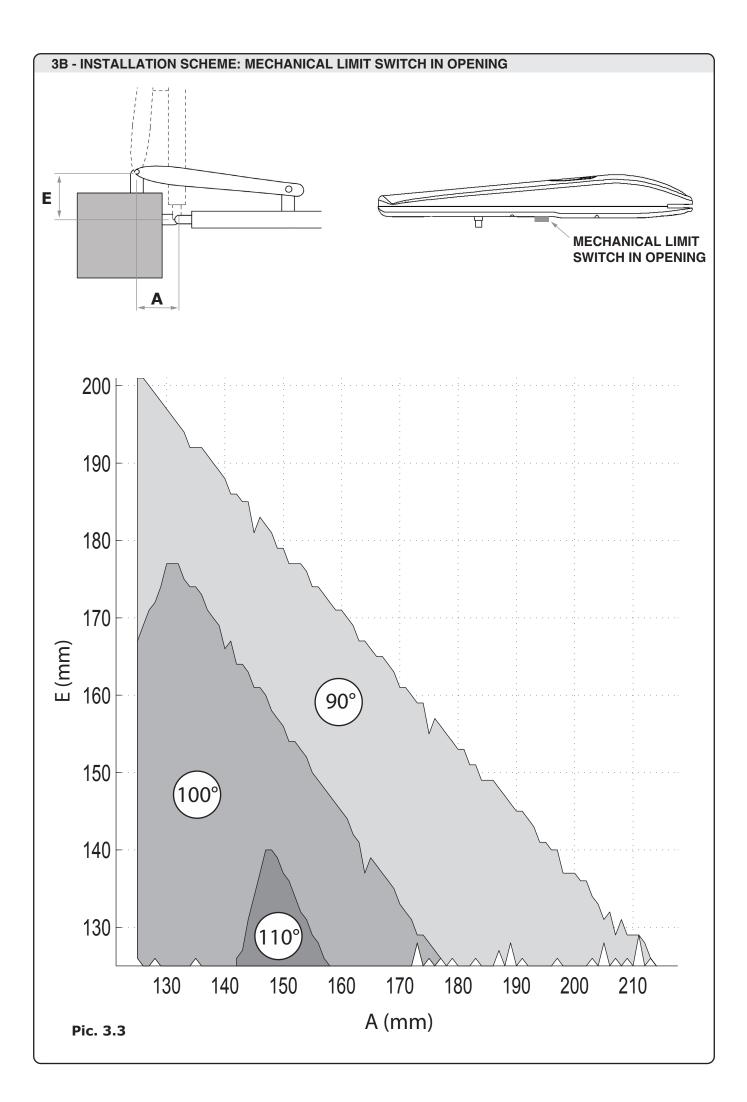


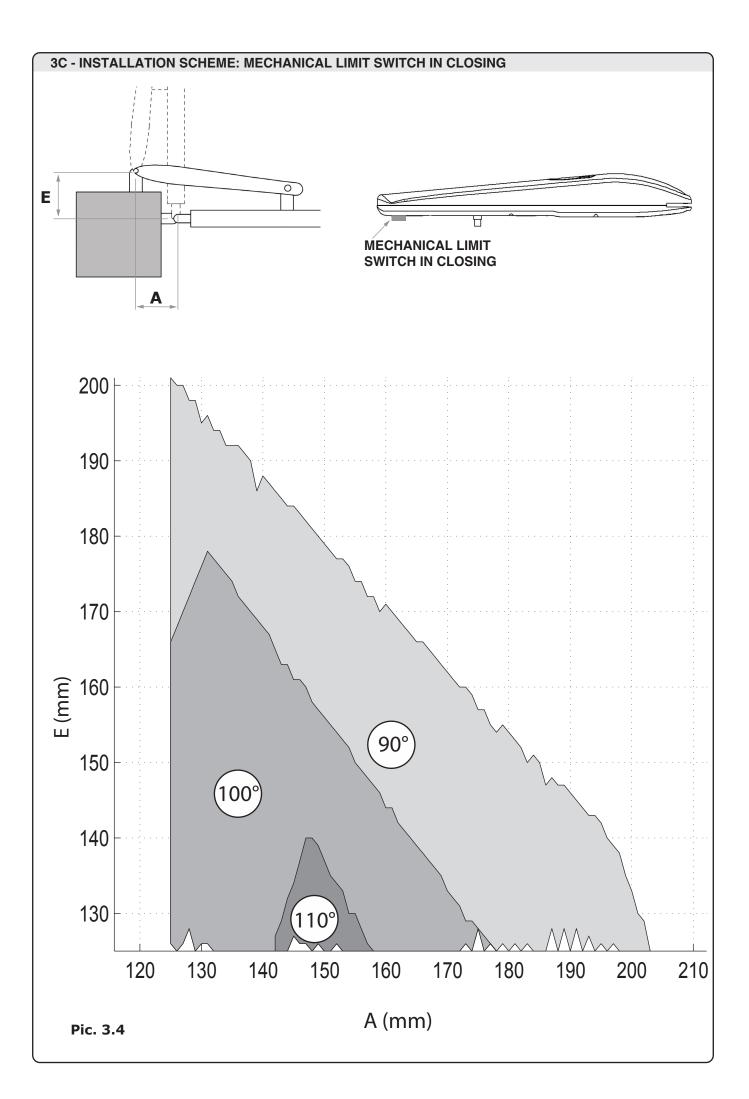


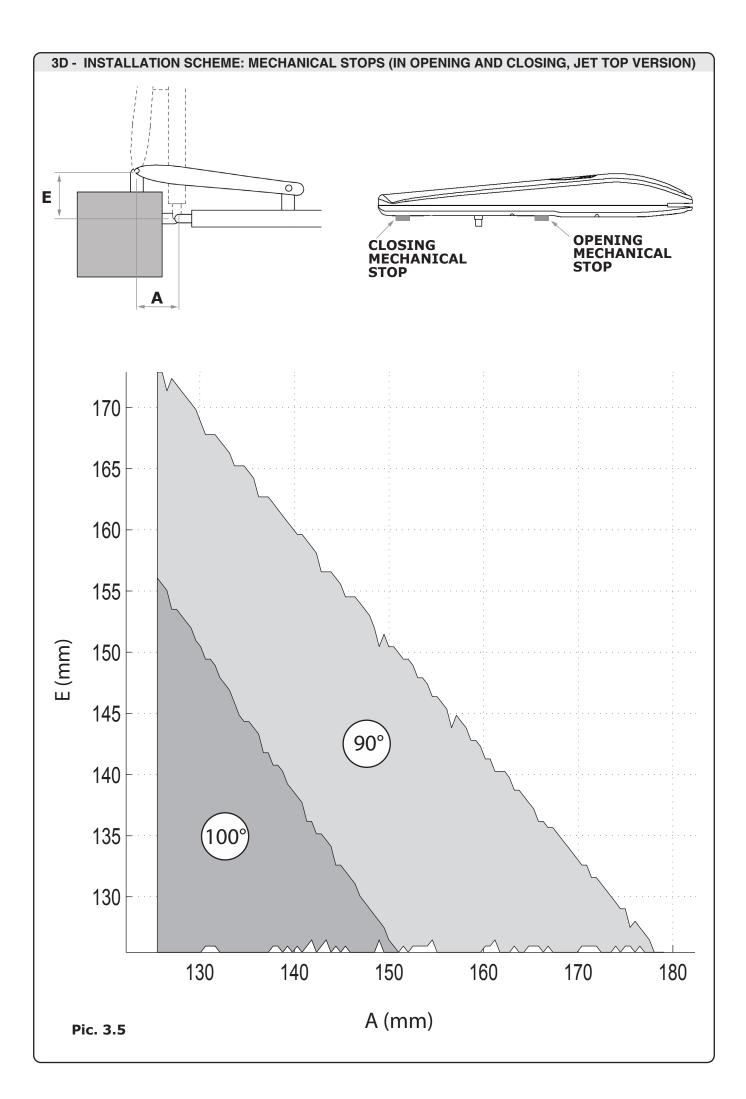
3 - BRACKETS INSTALLATION SCHEME

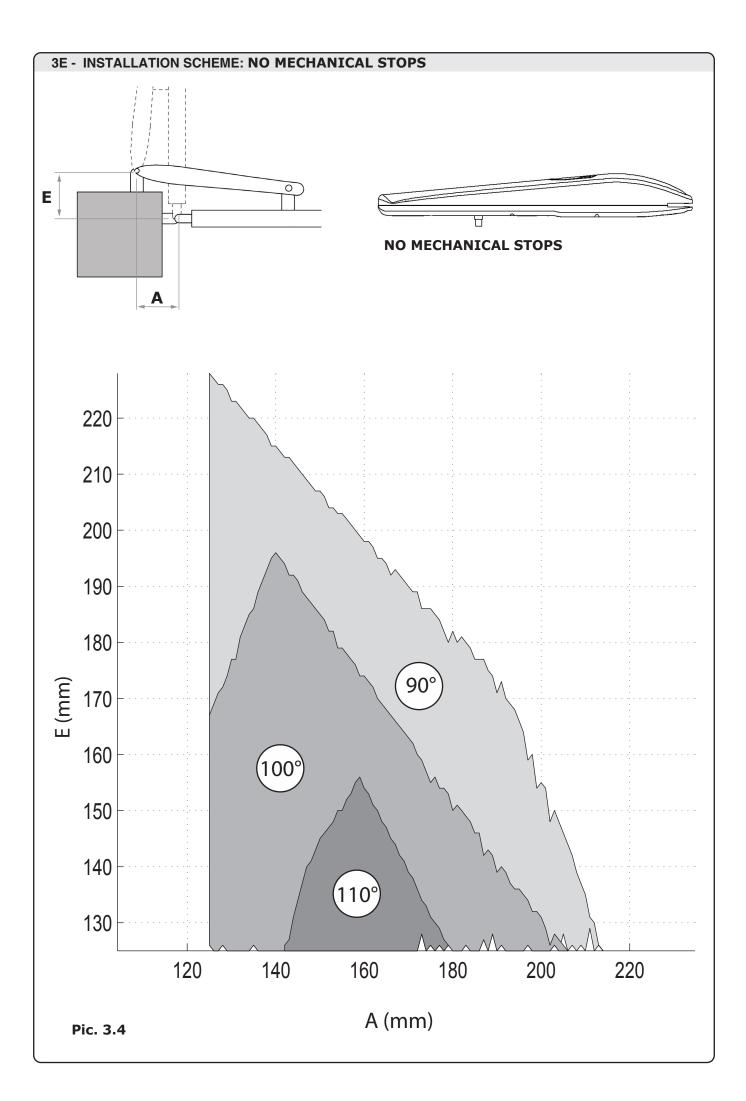
3A - HOW TO USE THE SCHEME

Measure "E" and draw a horizontal line in the scheme (pic.3.3 or 3.4 or 3.5 or 3.6) at the corresponding value. Choose a point on the drawn line, considering the desired opening angle. Draw a vertical line from that point and determinate the A value. Verify that the A value allows the fixing of the rear bracket before continuing the installation, otherwise choose another point on the scheme. Finally, bring the piston to the limit position (see picture 3.2). Pay attention: avoid that the sliding pivot touches the aluminium cover. If the installation measures are not properly followed, the automation may not work correctly. For example: - Cyclical trends, and sudden accelerations - Noise of the motor - Limited opening degree or absent opening (in case of motor counter-lever configuration) **OPENING** Pic. 3.1 ANGLE 0 E Α Pic. 3.2









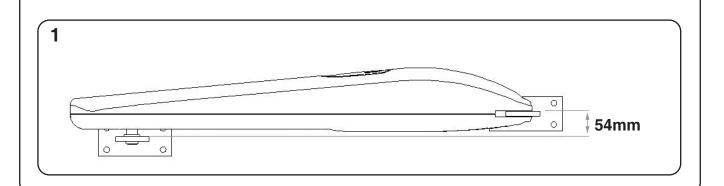
4 - INSTALLATION

4A - INTRODUCTION

Read the instructions with care before installing the product. The producer disclaims all responsibility for any damage or bad functioning caused by inobservance of the instructions or bad connection that may result in poor safety and functioning of the gear-motor.

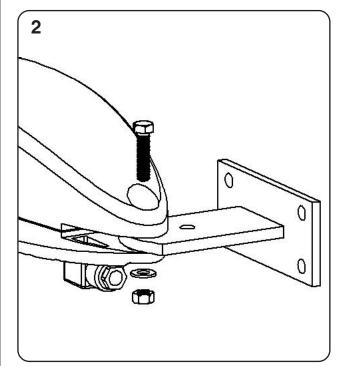
4B - BRACKETS HEIGHT

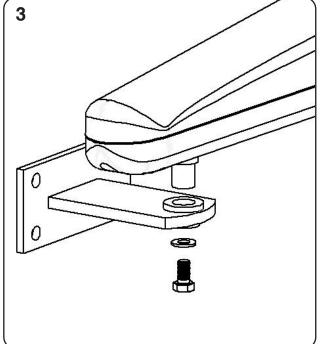
Fix the brackets keeping 54 mm between the surfaces in order to fix the gear-motor horizontally. (see pic.1).



4C - FIXING THE GEAR-MOTOR TO THE BRACKETS

Fixing the gear-motor to the rear brackets. (see pic.2). Fixing the gear-motor to the front brackets. (see pic.3).





5 - MANUAL OVERRIDE

5A - INTRODUCTION

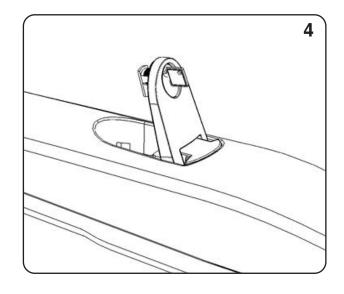
() Before operating the manual override disconnect the power

Manual override has been thought for manual opening of the gate in case of power-cut or motor breakdown.

5B - OVERRIDE

INSTRUCTION (see pic.4).

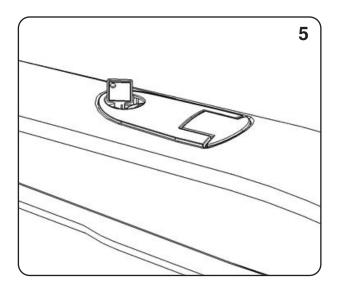
- Operate the manual override by moving back the key hole cover.
- Insert the key in the cylinder lock and turn it of 90° clockwise direction.
- Pull the lever till it is perpendicular to the gear-motor.



5C - RESTORE

INSTRUCTION (see pic.5)

- Bring back the lever in the original position.
- Inser the key in the cylinder lock and turn it of 90° anticlockwise direction.

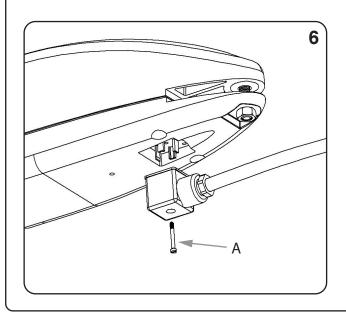


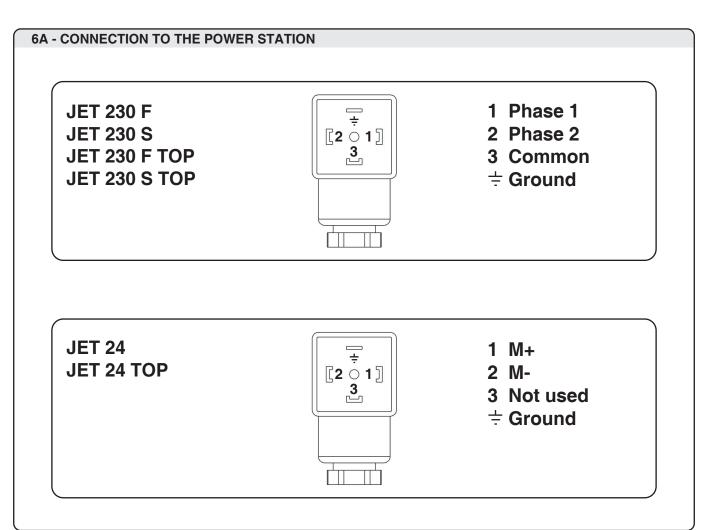
6 - ELECTRICAL CONNECTION

6A - CONNECTION TO THE POWER STATION

The installer is provided with the assembled connector. This has the function of connecting the motor to the power station and to power it. This procedure can only be carried out by authorized staff. Dismantle the connector by unscrewing screw "A" (see pic.6)

ATTENTION: the electrical connection within the gear-motor is already provided.





7 - STOP ADJUSTMENT

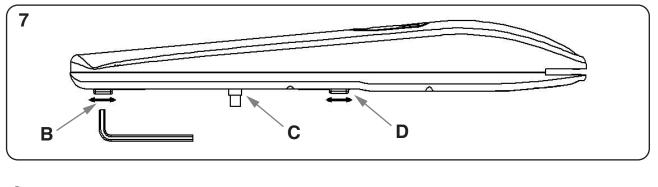
7A - INTRODUCTION

The mechanical-stop enables to stop the gate at a required position, avoiding the door to hit the stop devices.

7B - INSTRUCTION FOR THE REGOLATION

INSTRUCTION (see pic.7):

- Set the gear-motor on manual override (pic.4).
- Twist off the screw of the mechanical-stop (B or D).
- Move the door to the desired opening/closing position.
- Place the mechanical-stop next to the sliding pin (C).
- Turn the screw tightly.
- Set the gear-motor on automatic functioning (pic.5).



① The gear-motors are normally provided with mechanical stop in open position. In case of lack of external mechanical stop in closing position, it is possible to buy the optional mechanical stop.