

Motoriduttori per scorrevoli
Gear-motor for sliding gates
Motoreducteur pour coulissants
Getriebe für Schiebegitter
Motorreductores para rejas correderas
Motorreductores para portões de correr
Napęd silnikowy do bram przesuwnych
Voor schuivende poorten

TURBO 40
TURBO 80
TURBO 120
TURBO 160



(IT) MANUALE ISTRUZIONI
(GB) INSTRUCTION MANUAL
(F) MANUEL D'EMPLOI
(D) BEDIENUNGSANLEITUNG
(E) MANUAL DE INSTRUCCIONES
(P) MANUAL DE INSTRUÇÕES
(PL) INSTRUKCJA OBSŁUGI
(NL) GEBRUIKSHANDLEIDING



Keyautomation S.p.A



Organizzazione con Sistema
di Gestione certificato
Company with Management
System certified
ISO 9001:2008

SINCERT

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IMPORTANT REMARKS

For any installation problems please contact

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has the right to modify the product without previous notice; it also declines any responsibility to damage or injury to people or things caused by improper use or wrong installation.



Please read this instruction manual very carefully before installing and programming your control unit.

- This instruction manual is only for qualified technicians, who specialize in installations and automations.
- The contents of this instruction manual do not concern the end user.
- Every programming and/or every maintenance service should be done only by qualified technicians.

AUTOMATION MUST BE IMPLEMENTED IN COMPLIANCE WITH THE EUROPEAN REGULATIONS IN FORCE:

EN 60204-1 (Machinery safety. electrical equipment of machines, part 1: general rules)

EN 12445 (Safe use of automated locking devices, test methods)

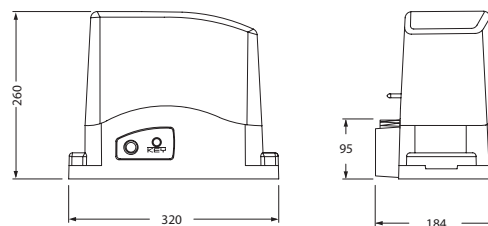
EN 12453 (Safe use of automated locking devices, requirements)

- The installer must provide for a device (es. magnetothermal switch) ensuring the omnipolar sectioning of the equipment from the power supply.
The standards require a separation of the contacts of at least 3 mm in each pole (EN 60335-1).
- The plastic case has an IP55 insulation; to connect flexible or rigid pipes, use pipefittings having the same insulation level.
- Installation requires mechanical and electrical skills, therefore it shall be carried out by qualified personnel only, who can issue the Compliance Certificate concerning the whole installation (Machine Directive 2006/42/CEE, Annex IIA).
- The automated vehicular gates shall comply with the following rules: EN 13241-1, EN 12453, EN 12445 as well as any local rule in force.
- Also the automation upstream electric system shall comply with the laws and rules in force and be carried out workmanlike.
- The door thrust force adjustment shall be measured by means of a proper tool and adjusted according to the max. limits, which EN 12453 allows.
- We recommend to make use of an emergency button, to be installed by the automation (connected to the control unit STOP input) so that the gate may be immediately stopped in case of danger.
- The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
- Children being supervised do not play with the appliance.

MODELS AND SPECIFICATIONS TECHNICAL DATA

TURBO 40

CODE	900SC-40	900SC-41CS	900SC-41CSM
Control unit	-	CT-101	CT-101
Power supply	230 Vac	230 Vac	230 Vac
Maximum power	300 W	300 W	300 W
Idling current	1,3 A	1,3 A	1,3 A
Capacitor	12,5 µF	12,5 µF	12,5 µF
Protection	IP 44	IP 44	IP 44
Maximum thrust	16 Nm	16 Nm	16 Nm
Gate maximum speed	0,16 m/s	0,16 m/s	0,16 m/s
Maximum thrust	400 N	400 N	400 N
Gate maximum weight	400 Kg	400 Kg	400 Kg
Thermoprotection	150 °C	150 °C	150 °C
Insulation class	1	1	1
Duty cycle	30 %	30 %	30 %
Operation temperature	-20° +70°C	-20° +70°C	-20° +70°C
Weight	12 Kg	12 Kg	12 Kg



TURBO 80



CODE	900SC-50	900SC-51CS	900SC-51CSM	900SC-71CSI	900SC-50-24
Control unit	-	CT-101	CT-101	CT-101	CT-24SU
Power supply	230 Vac	230 Vac	230 Vac	230 Vac	230 Vac (24 Vdc)
Maximum power	450 W	450 W	450 W	360 W	150 W
Idling current	1,9 A	1,9 A	1,9 A	1,5 A	6 A
Capacitor	16 µF	16 µF	16 µF	12,5 µF	-
Protection	IP 44	IP 44	IP 44	IP 44	IP 44
Maximum thrust	29 Nm	29 Nm	29 Nm	29 Nm	12 Nm
Gate maximum speed	0,16 m/s	0,16 m/s	0,16 m/s	0,16 m/s	0,18 m/s
Maximum thrust	650 N	650 N	650 N	650 N	400 N
Gate maximum weight	800 Kg	800 Kg	800 Kg	800 Kg	800 Kg
Thermoprotection	150 °C	150°C	150°C	150°C	-
Insulation class	1	1	1	1	1
Duty cycle	30 %	30 %	30 %	60 %	80 %
Operation temperature	-20° +70°C	-20° +70°C	-20° +70°C	-20° +70°C	-20° +70°C
Weight	12,5 Kg	12,5 Kg	12,5 Kg	13,5 Kg	12 Kg

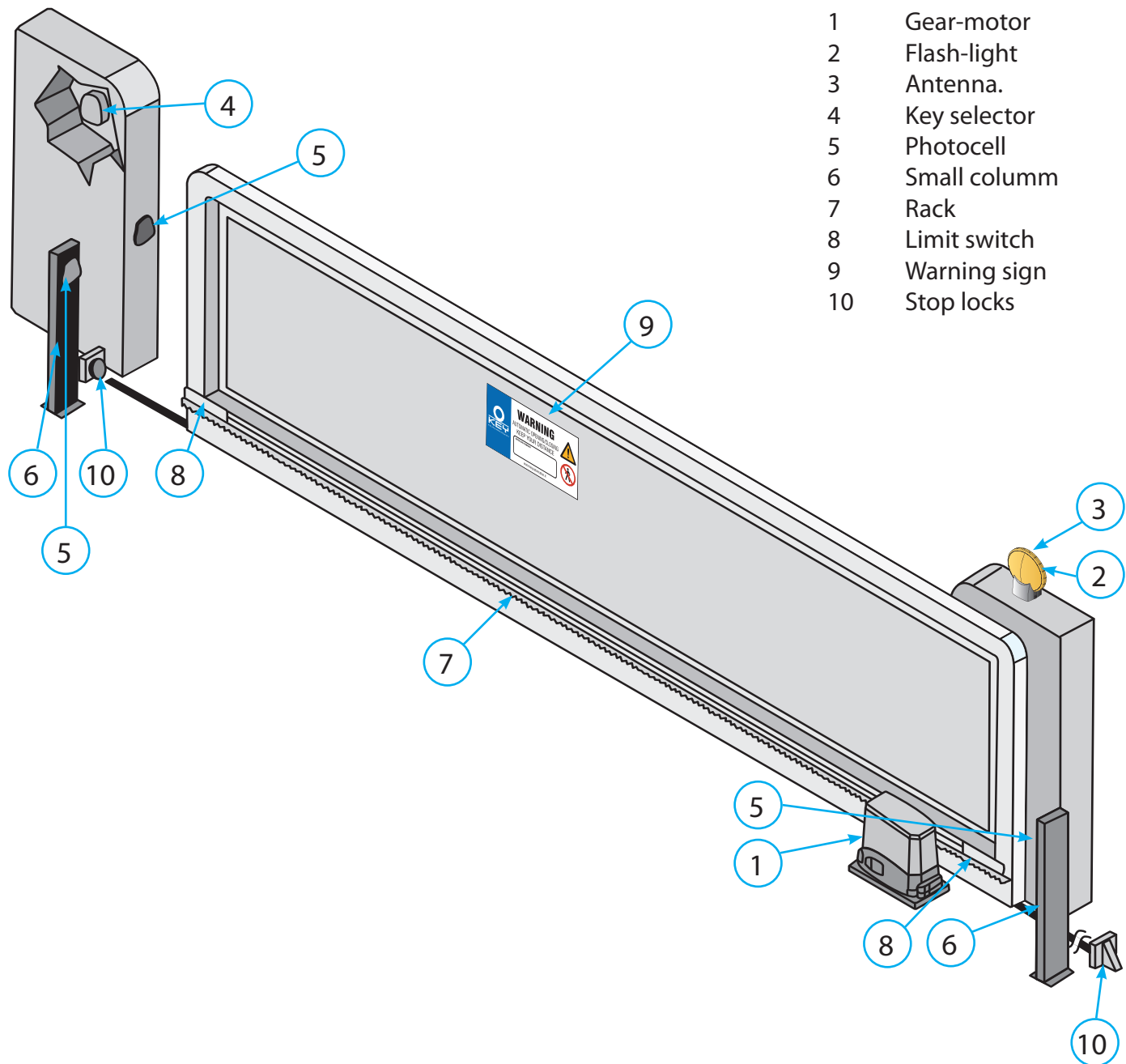
TURBO 120

TURBO 160

CODE	900SC-70	900SC-71CS	900SC-71CSM	900SC-100	900SC-101CS	900SC-101CSM
Control unit	-	CT-101	CT-101	-	CT-101	CT-101
Power supply	230 Vac	230 Vac	230 Vac	230 Vac	230 Vac	230 Vac
Maximum power	600 W	600 W	600 W	700 W	700 W	700 W
Idling current	2,6 A	2,6 A	2,6 A	3 A	3 A	3 A
Capacitor	20 µF	20 µF	20 µF	20 µF	20 µF	20 µF
Protection	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44
Maximum thrust	40 Nm	40 Nm	40 Nm	40 Nm	40 Nm	40 Nm
Gate maximum speed	0,16 m/s	0,16 m/s	0,16 m/s	0,16 m/s	0,16 m/s	0,16 m/s
Maximum thrust	1000 N	1000 N	1000 N	1000 N	1000 N	1000 N
Gate maximum weight	1200 Kg	1200 Kg	1200 Kg	1600 Kg	1600 Kg	1600 Kg
Thermoprotection	150 °C	150°C	150°C	150 °C	150 °C	150 °C
Insulation class	1	1	1	1	1	1
Duty cycle	30 %	30 %	30 %	30 %	30 %	30 %
Operation temperature	-20° +70°C	-20° +70°C	-20° +70°C	-20° +70°C	-20° +70°C	-20° +70°C
Weight	13,5 Kg	13,5 Kg	13,5 Kg	13,5 Kg	13,5 Kg	13,5 Kg

SET PANEL

ENGLISH



- 1 Gear-motor
- 2 Flash-light
- 3 Antenna.
- 4 Key selector
- 5 Photocell
- 6 Small column
- 7 Rack
- 8 Limit switch
- 9 Warning sign
- 10 Stop locks

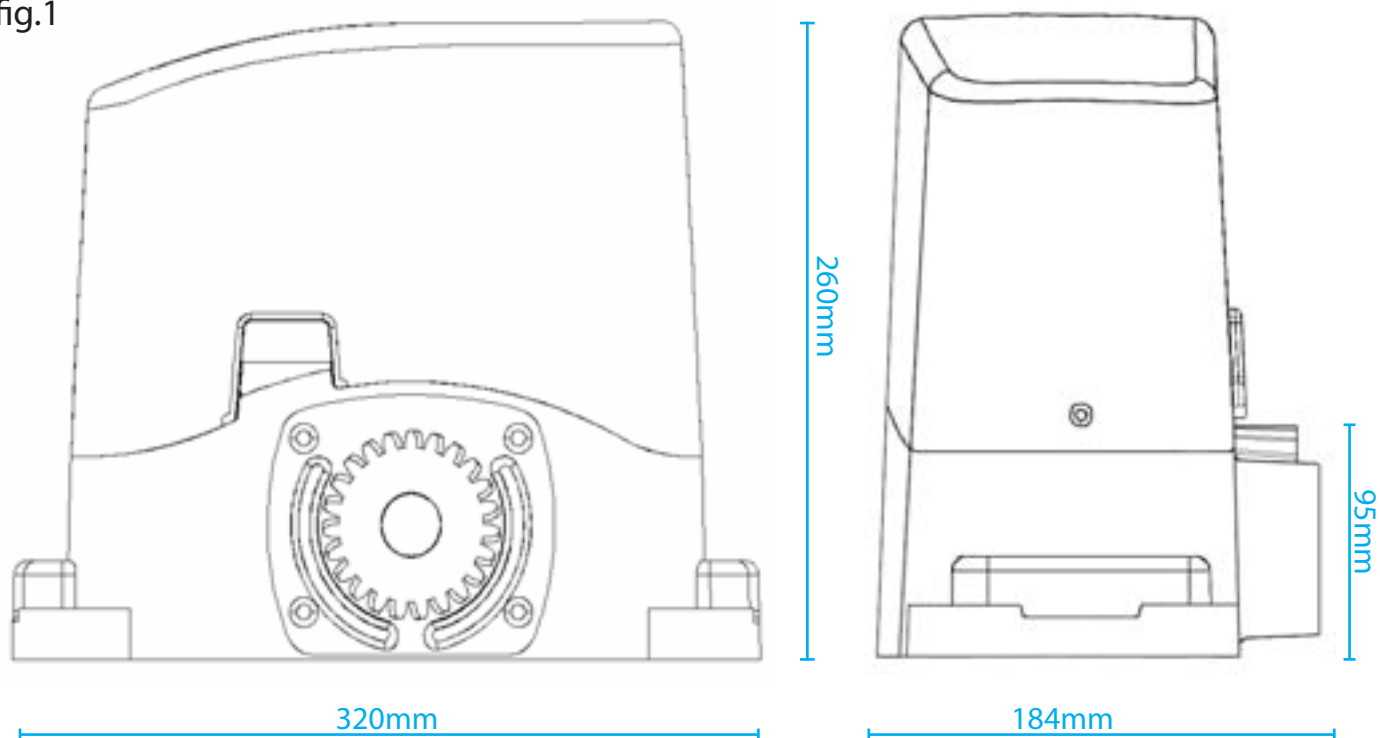
PREVIOUS INSPECTIONS

Before the installation starts, we suggest to carry out following inspections and operations:

- 1_ The gate framework must be strong and suitable.
- 2_ The gate must not show too many sideways slide skids during the running.
- 3_ The system of wheels/lower rail and roller/upper runner must work without too many frictions.
- 4_ To avoid the gate derailment you must install the stop beats of the sliding, whether at the opening or closing, and a second upper roller/runner in full observance of the current law.
- 5_ Remove any manual lock in the beforehand gates.
- 6_ Take on the gate bottom the feed raceway of the feeding cables (Ø25-50mm) and of external connection (photocell, flash-light, key selector, etc...).

OVERALL DIMENSIONS

fig.1

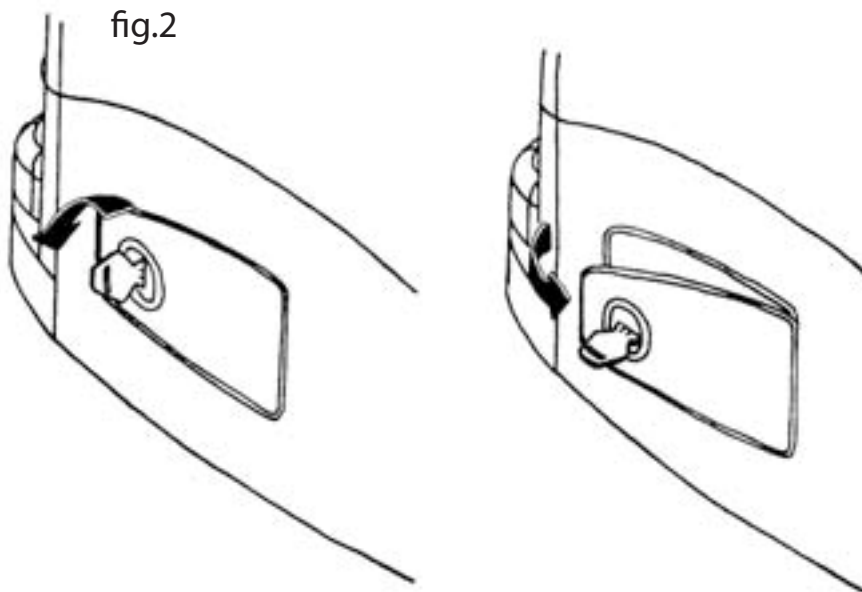


ENGLISH

MANUAL RUNNING

- 1_ Insert the key and turn it 90° in anticlockwise direction.
- 2_ Pull the knob till it is perpendicular to the gear-motor.

fig.2



INSTALLATION

Respecting the overall size, fix to ground the base-plate through 4 sturdy screw-anchors (fig.n.3) or drown it into the concrete (fig.n.4).

Plan for one or more sheathing for the passage of the power lines.

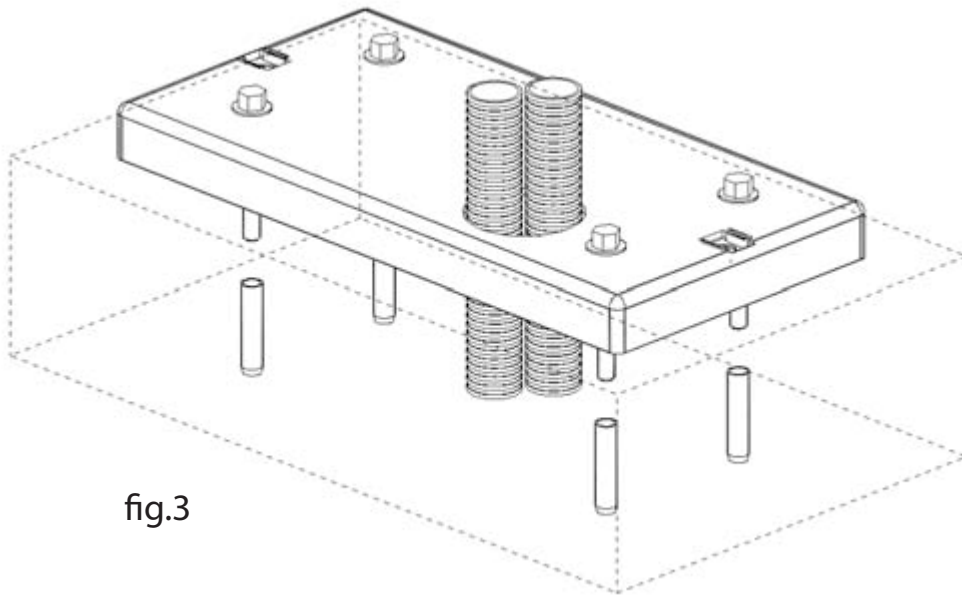


fig.3

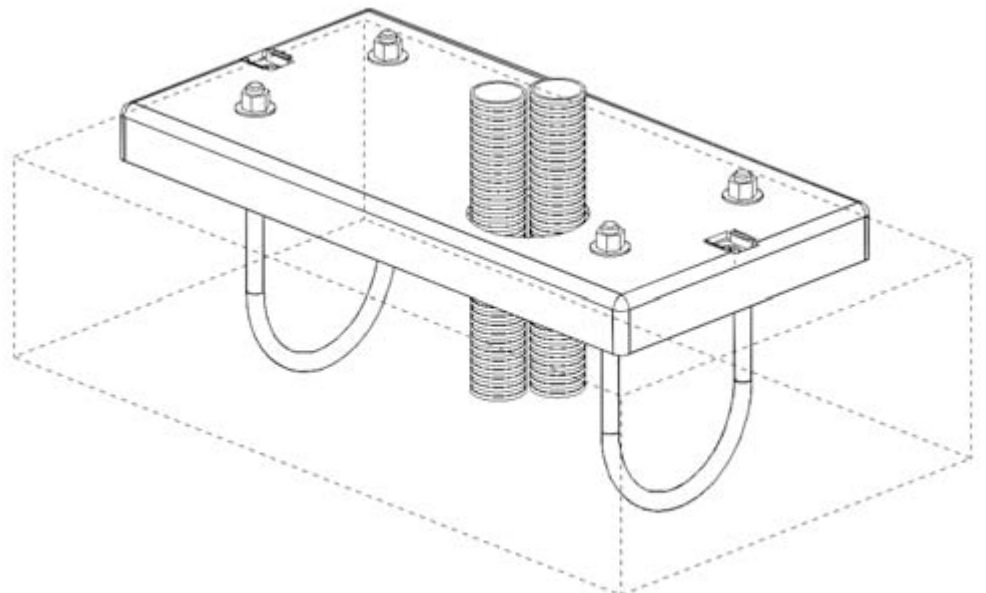


fig.4



NB: It is necessary to know the rack dimensions to can calculate exactly the counter-plate positioning.

Take the lid off unscrewing the screws (fig.5).
Put the gear-motor on the plate.
Insert the two socket head screws (fig.6).

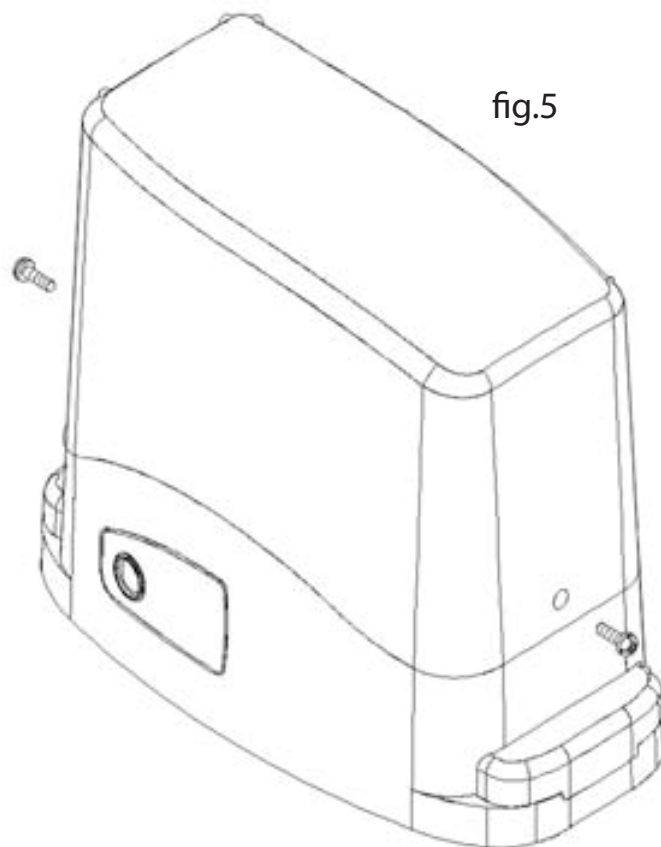


fig.5

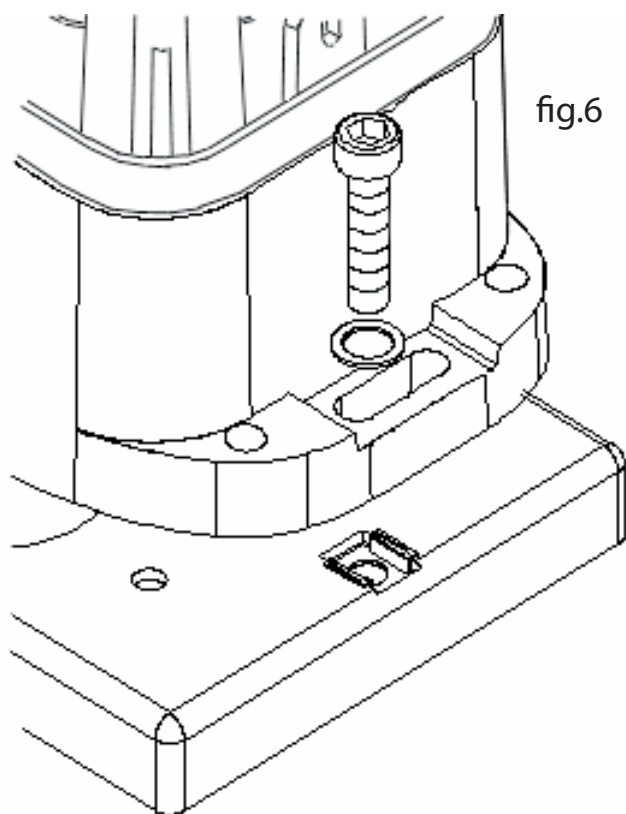


fig.6

It is important to lock the two socket head screws forcefully, making sure, that the gear-motor is steady on the ground, during the whole gate running.

If the regulating allowed by the rack is not sufficient, it is possible to counterbalance the gear-motor high working on the four screws (fig.7).

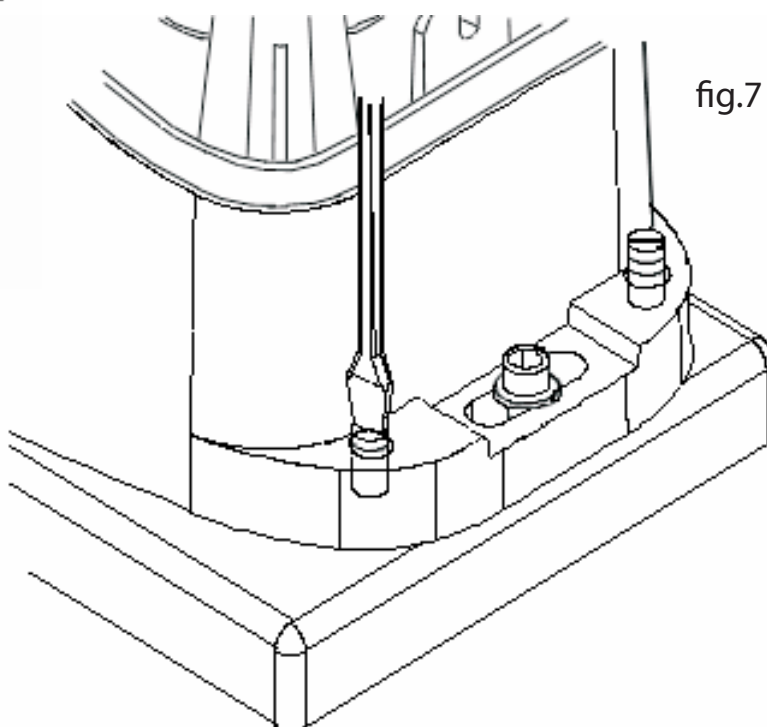
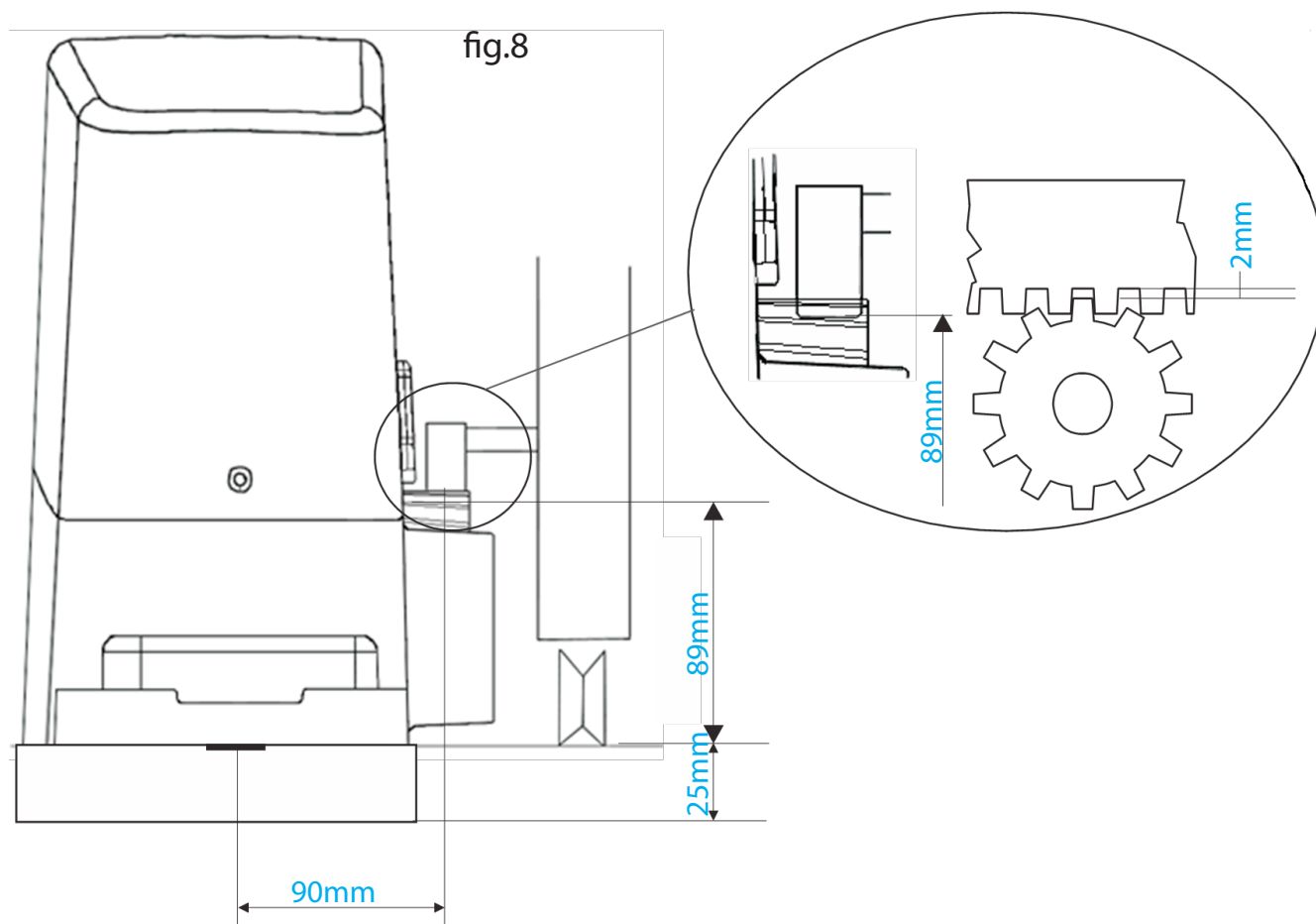


fig.7

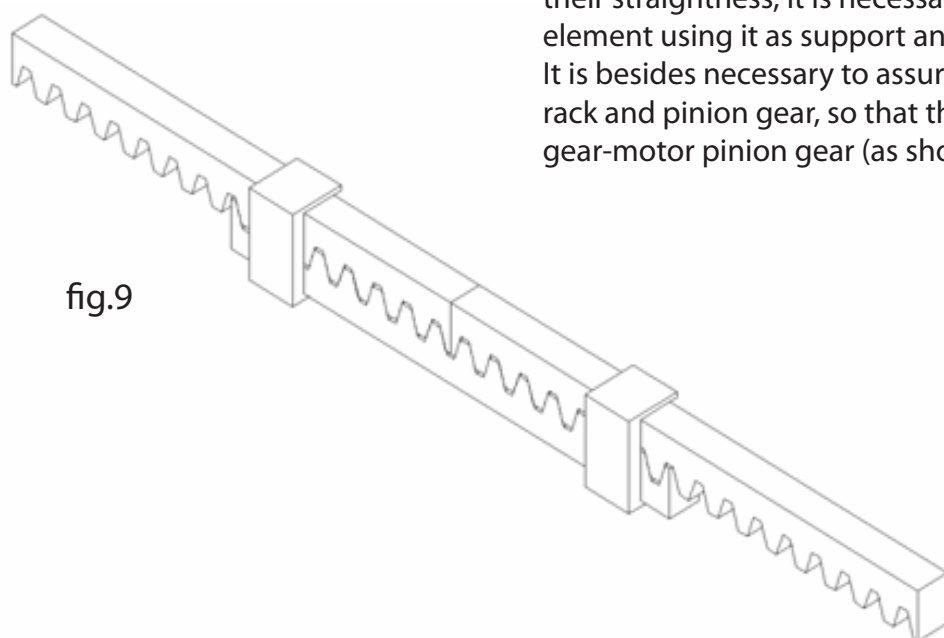
RACK ASSEMBLING

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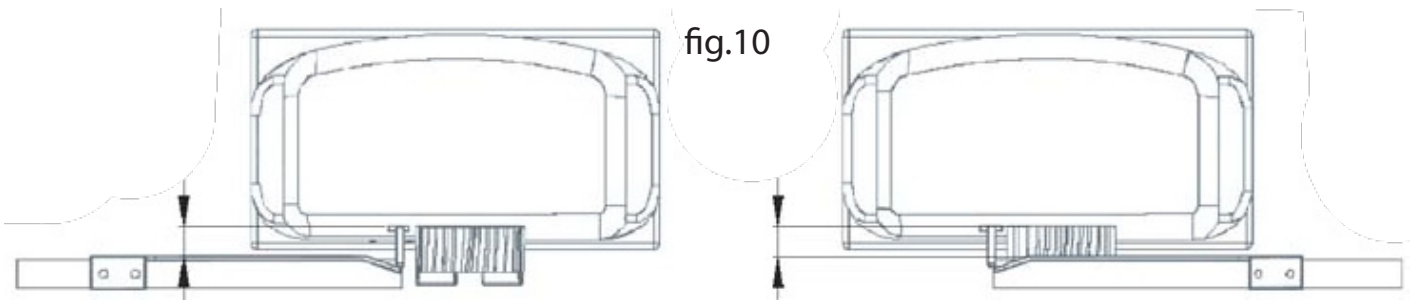


Release the gear-motor as indicated by the fig.1/2 and open entirely the gate. Put a rack element on the pinion gear and fasten it to the gate with screw and spacing bars. Move the gate manually bringing the pinion gear into line with the last spacing bar. Fasten the rack element for good.

For a correct positioning of the other elements and to assure their straightness, it is necessary to employ a rack element using it as support and reference (fig.9). It is besides necessary to assure an aperture of 2 mm between rack and pinion gear, so that the gate weight doesn't rest on the gear-motor pinion gear (as shown in the fig.8).



LIMIT SWITCH FIXING



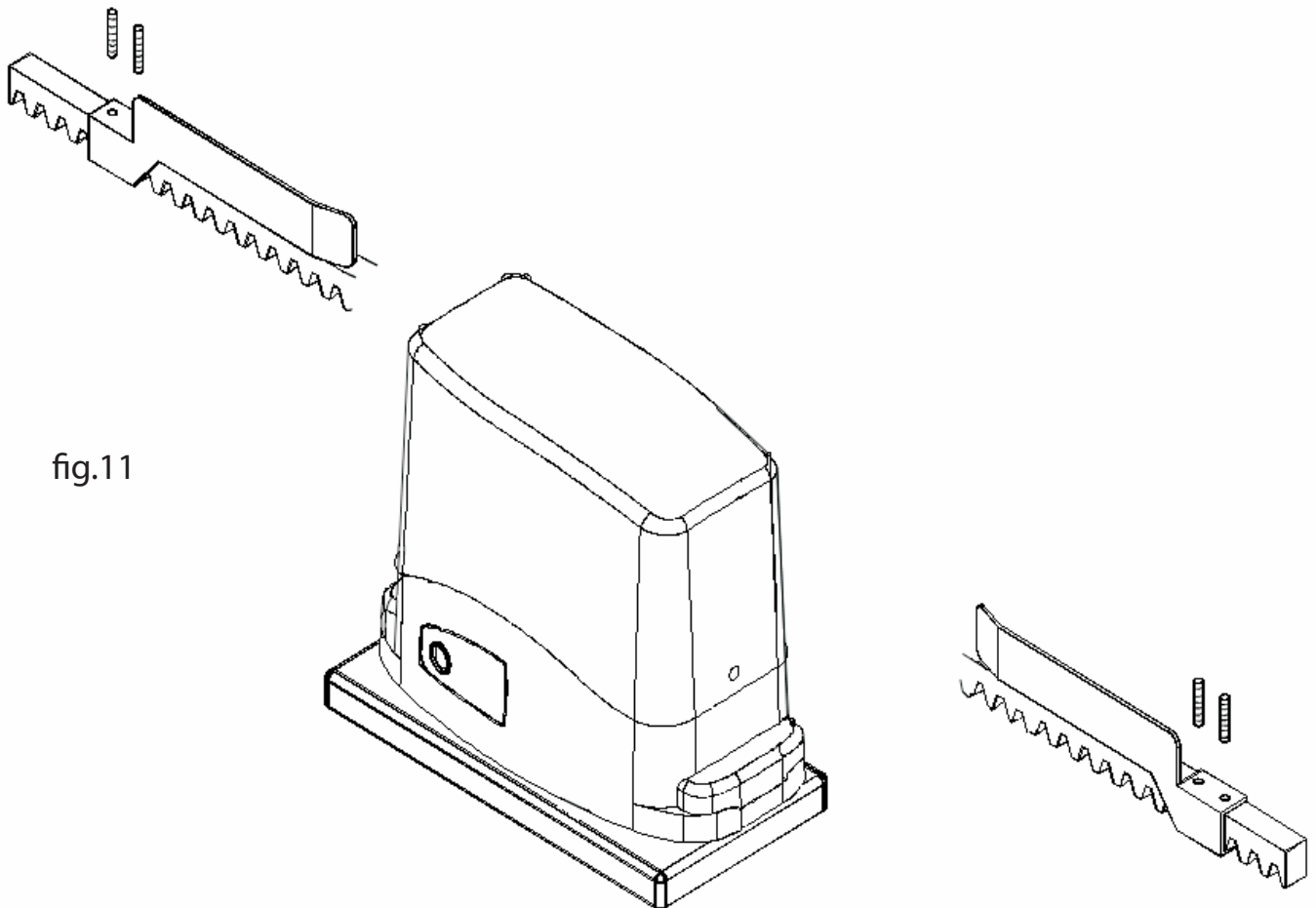
ENGLISH

The gate has to be equipped with stop locks at the opening and closing, which prevent the gate derailment.

The stop lock position must assure that the limit switch brackets don't collide with the pinion gear. Haul the gate manually at the opening leaving, depending on the gate weight, a crack from 30 to 50 mm between the main gate and mechanical stop.

Fasten the limit switch bracket through the dowels (fig.11) so that the limit switch is pressed (fig.10).

Repeat the operation with the main gate at the closing.



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