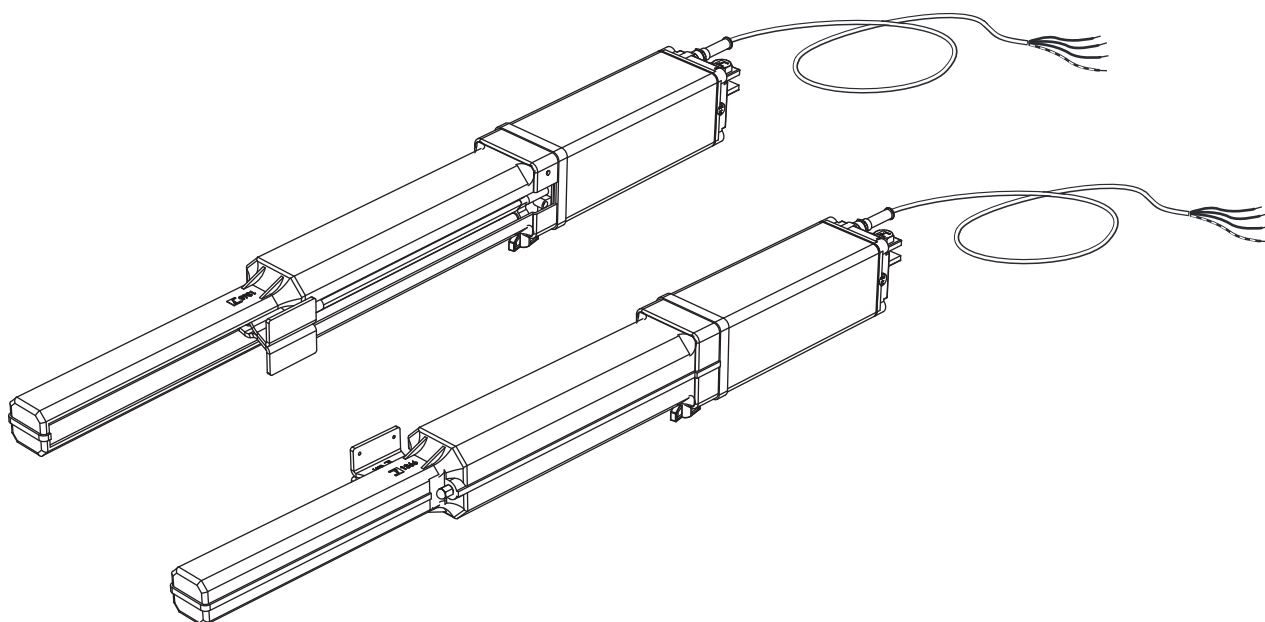


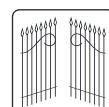
HINDI 880 SPRINT

Oil-hydraulic KIT operator for swinging gates up to 2,3 m per leaf



EN 13241
EN 12453
EN 12445

Made in Italy



FADINI
the gate opener

GENERAL WARNINGS FOR PEOPLE SAFETY

INTRODUCTION

This operator is designed for a specific scope of applications as indicated in this manual, including safety, control and signaling accessories as minimum required with **FADINI** equipment. □ Any applications not explicitly included in this manual may cause operation problems or damages to properties and people. □ Meccanica Fadini snc is not liable for damages caused by the incorrect use of the equipment, or for applications not included in this manual or for malfunctioning resulting from the use of materials or accessories not recommended by the manufacturer. □ The manufacturer reserves the right to make changes to its products without prior notice. □ All that is not explicitly indicated in this manual is to be considered not allowed.

BEFORE INSTALLATION

Before commencing operator installation assess the suitability of the access, its general condition and the structure. □ Make sure that there is no risk of impact, crushing, shearing, conveying, cutting, entangling and lifting situations, which may prejudice people safety. □ Do not install near any source of heat and avoid contacts with flammable substances. □ Keep all the accessories able to turn on the operator (transmitters, proximity readers, key-switches, etc) out of the reach of the children. □ Transit through the access only with stationary operator. □ Do not allow children and/or people to stand in the proximity of a working operator. □ To ensure safety in the whole movement area of a gate it is advisable to install photocells, sensitive edges, magnetic loops and detectors. □ Use yellow-black strips or proper signals to identify dangerous spots. □ Before cleaning and maintenance operations, disconnect the appliance from the mains by switching off the master switch. □ If removing the actuator, do not cut the electric wires, but disconnect them from the terminal box by loosening the screws inside the junction box.

INSTALLATION

All installation operations must be performed by a qualified technician, in observance of the Machinery Directive 2006/42/CE and safety regulations EN 12453 - EN 12445. □ Verify the presence of a thermal-magnetic circuit breaker 0,03 A - 230 V - 50 Hz upstream the installation. □ Use appropriate objects to test the correct functionality of the safety accessories, such as photocells, sensitive edges, etc. □ Carry out a risk analysis by means of appropriate instruments measuring the crushing and impact force of the main opening and closing edge in compliance with EN 12445. □ Identify the appropriate solution necessary to eliminate and reduce such risks. □ In case where the gate to automate is equipped with a pedestrian entrance, it is appropriate to prepare the system in such a way to prohibit the operation of the engine when the pedestrian entrance is used. □ Apply safety nameplates with CE marking on the gate warning about the presence of an automated installation. □ The installer must inform and instruct the end user about the proper use of the system by releasing him a technical dossier, including: layout and components of the installation, risk analysis, verification of safety accessories, verification of impact forces and reporting of residual risks.

INFORMATION FOR END-USERS

The end-user is required to read carefully and to receive information concerning only the operation of the installation so that he becomes himself responsible for the correct use of it. □ The end-user shall establish a written maintenance contract with the installer/maintenance technician (on -call). □ Any maintenance operation must be done by qualified technicians. □ Keep these instructions carefully.

WARNINGS FOR THE CORRECT OPERATION OF THE INSTALLATION

For optimum performance of system over time according to safety regulations, it is necessary to perform proper maintenance and monitoring of the entire installation: the automation, the electronic equipment and the cables connected to these. □ The entire installation must be carried out by qualified technical personnel, filling in the Maintenance Manual indicated in the Safety Regulation Book (to be requested or downloaded from the site www.fadini.net/supporto/downloads). □ Operator: maintenance inspection at least every 6 months, while for the electronic equipment and safety systems an inspection at least once every month is required. □ The manufacturer, Meccanica Fadini snc, is not responsible for non-observance of good installation practice and incorrect maintenance of the installation.

DISPOSAL OF MATERIALS

Dispose properly of the packaging materials such as cardboard, nylon, polystyrene etc. through specializing companies (after verification of the regulations in force at the place of installation in the field of waste disposal). Disposal of electrical and electronic materials: to remove and dispose through specializing companies, as per Directive 2012/19/UE. Disposal of substances hazardous for the environment is prohibited.



CE DECLARATION OF CONFORMITY of the manufacturer:

Meccanica Fadini snc (Via Mantova, 177/A - 37053 Cerea - VR - Italy) declares under own responsibility that: **Hindi 880 Sprint** complies with the 2006/42/CE Machinery Directive, and also that it is sold to be installed in an "automatic system", along with original accessories and components as indicated by the manufacturing company. An automatic gate operator is, by law, a "machinery" and therefore the installer must fit the equipment with all of the applicable safety norms. The installer is also required to issue the installer's Declaration of Conformity. The manufacturer is not liable for possible incorrect use of the product. The product complies with the following specific norms: analysis of the risks and subsequent action to cure them as per EN 12445 and EN 12453, Low Voltage Directive 2014/35/UE, Electromagnetic Compatibility 2014/30/UE. In order to certify the product, the manufacturer declares under own responsibility the compliance with the EN 13241-1 PRODUCT NORMS.

Meccanica Fadini s.n.c.
Director in charge

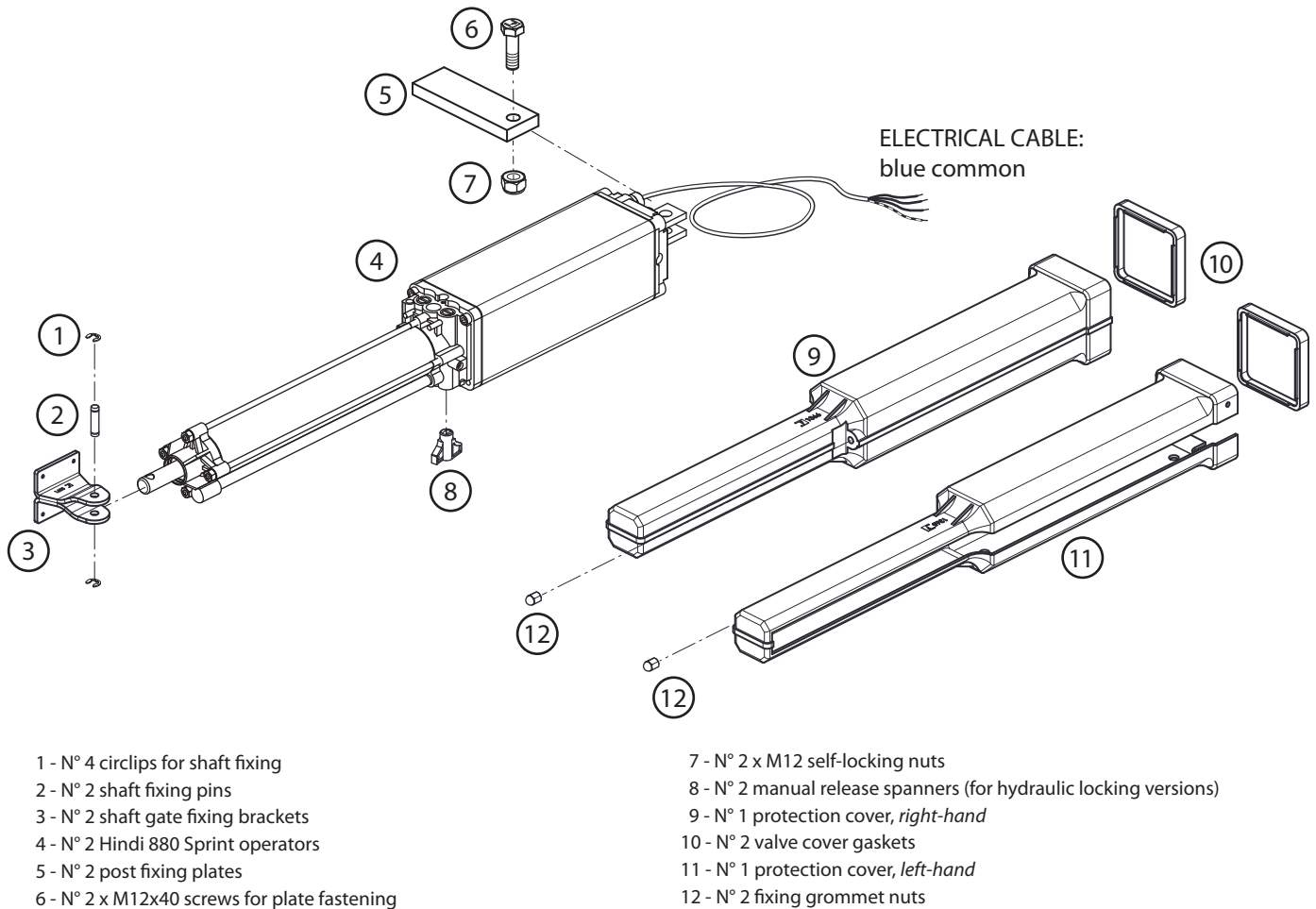
GENERAL DESCRIPTION OF THE PRODUCT

HINDI 880 SPRINT is an oil-hydraulic operator for external applications, designed to open and close swinging gates. It is an oil-hydraulic product and has, therefore, all the advantages and reliability that hydraulic units ensure in smoothness of movements. The valves controlling high and low pressure are adjustable to meet any requirements with swinging gates.

HINDI 880 SPRINT is available in various options, bidirectional locking, locking in closed gate position or non locking ie. reversible and the operator can be operated by hand.

For the operator to work automatically, an external electronic control board is needed and is to be installed in a sheltered place. Automatic or semiautomatic operations are possible to meet the site requirements.

A range of accessories ensure safe and easy operations and turn this operator into an extremely versatile unit for public and private applications.

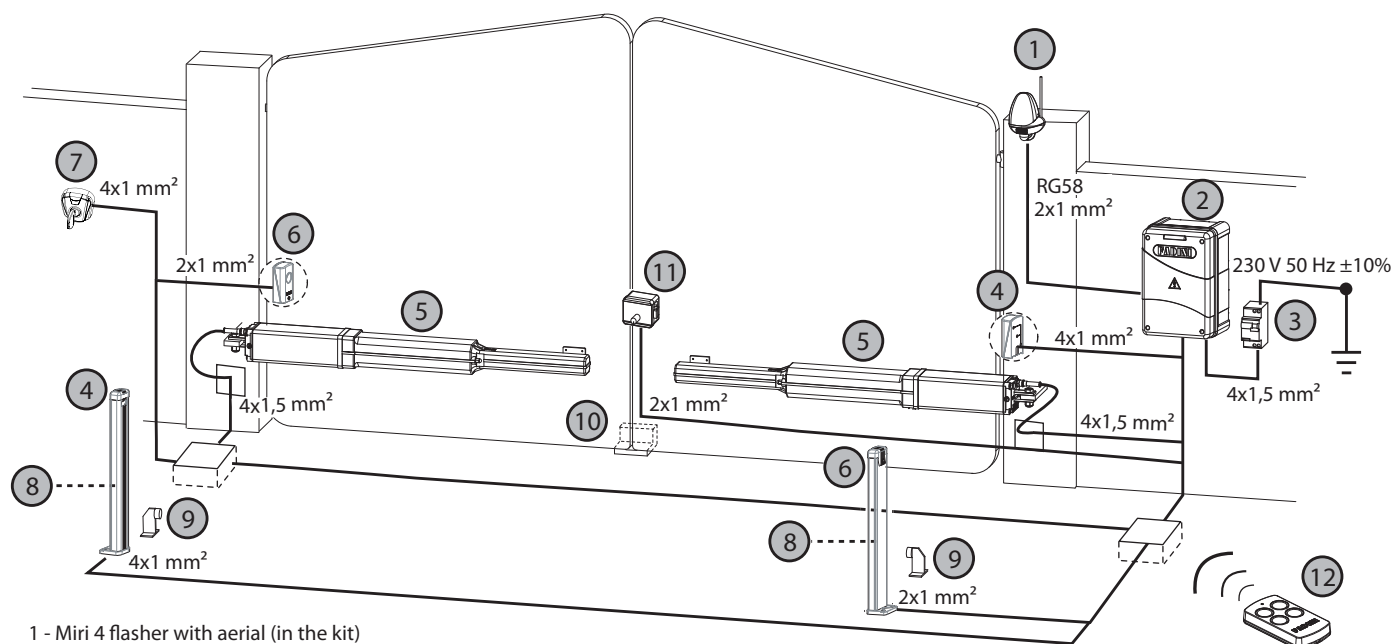
COMPONENTS AND OPERATOR ACCESSORIES IN THE KIT


Pic. 1

GENERAL WIRING DIAGRAM AND ACCESSORIES

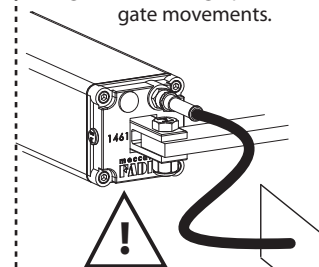
Before installing Hindi 880 Sprint, carry out the preparatory work for at least the minimum safety and command accessories.

General layout: it is the installer's care to properly lay the pipes and tubes required for the connections



- 1 - Miri 4 flasher with aerial (in the kit)
- 2 - Elpro 27 controller - item 7047L with VIX 53/2 R plug-in receiver (in the kit)
- 3 - 230 V - 50 Hz 0,03 A magneto-thermal differential circuit breaker (not included)
(2,5 mm² cable section beyond 100 m)
- 4 - Trifo 11 photocell receiver (only one pair in the kit)
- 5 - Hindi 880 Sprint
- 6 - Trifo 11 photocell transmitter (only one pair in the kit)
- 7 - Chis 37 key-switch (in the kit)
- 8 - Post for Trifo 11 photocell - item code No. 108L
- 9 - Open gate stop (mandatory, not included)
- 10 - Close gate stop (mandatory, not included)
- 11 - Electric lock required if Hindi 880 Sprint non locking (reversible) version is mounted (not in the kit)
- 12 - VIX 53/4 TR transmitter (in the kit)

The power supply electric cable is to dangle free all along open and close gate movements.

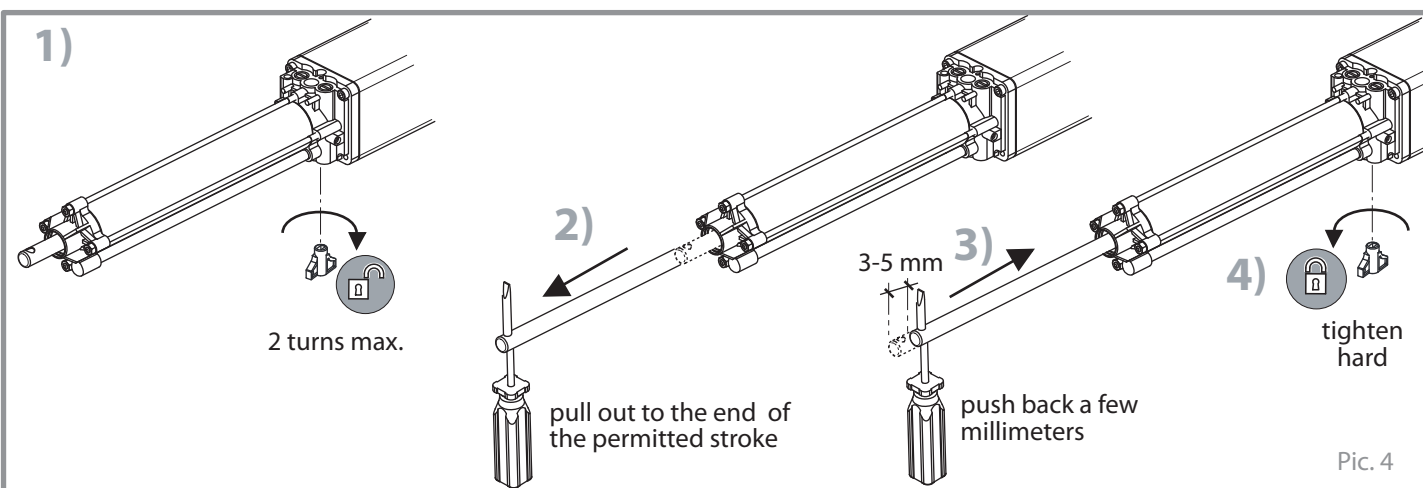


IMPORTANT: gate stops in open and closed gate positions are absolutely required for the correct functioning of Hindi 880 Sprint

Pic. 3

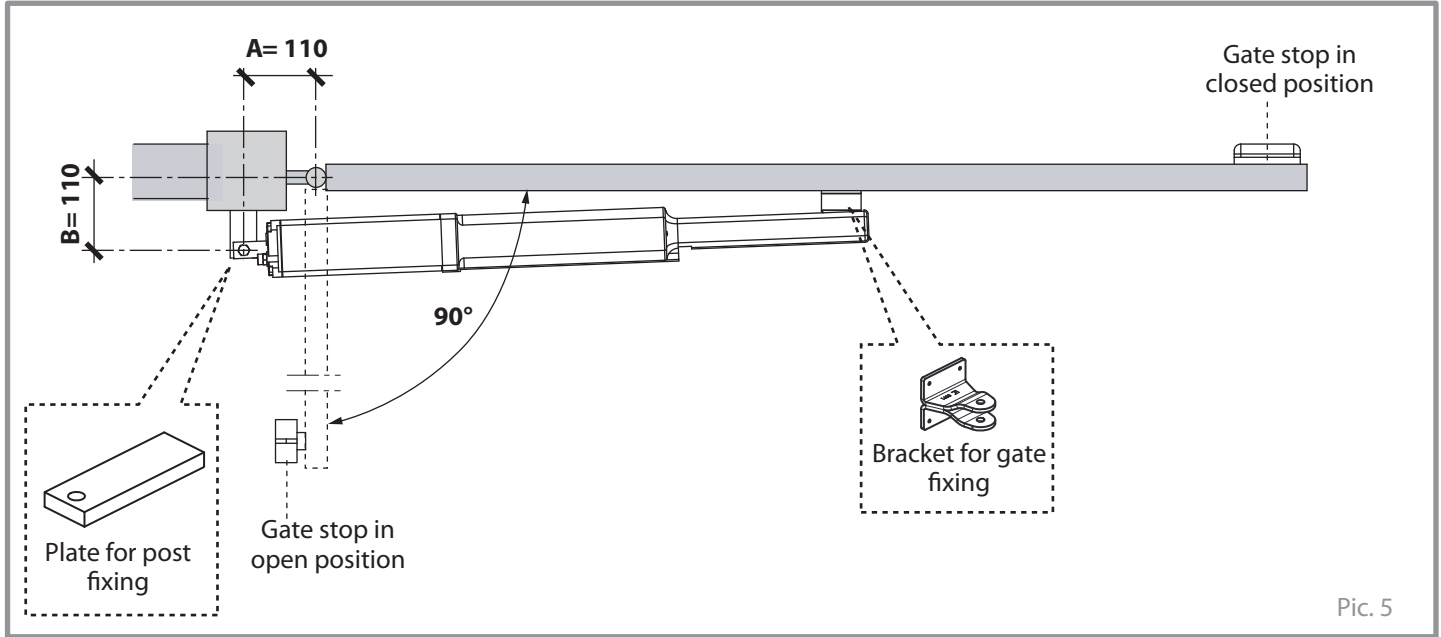
FIRST OPERATIONS TO PULL THE SHAFT OUT

Before fixing the operator to the gate and gate post, pull the shaft out (Pic. 4). Release by the spanner provided with the equipment (version with hydraulic locking valve); with the non locking (reversible) version, this operation is not required: the release system is under the valve. (Use the release spanner as indicated in the picture).



Pic. 4

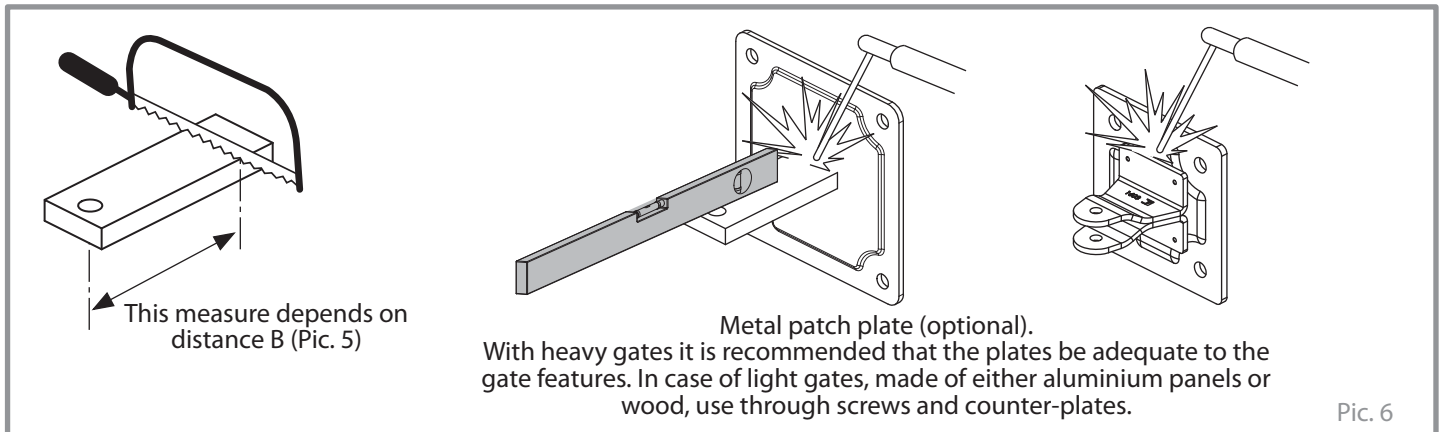
FIXING GEOMETRY FOR THE GATE TO OPEN INWARDS



Pic. 5

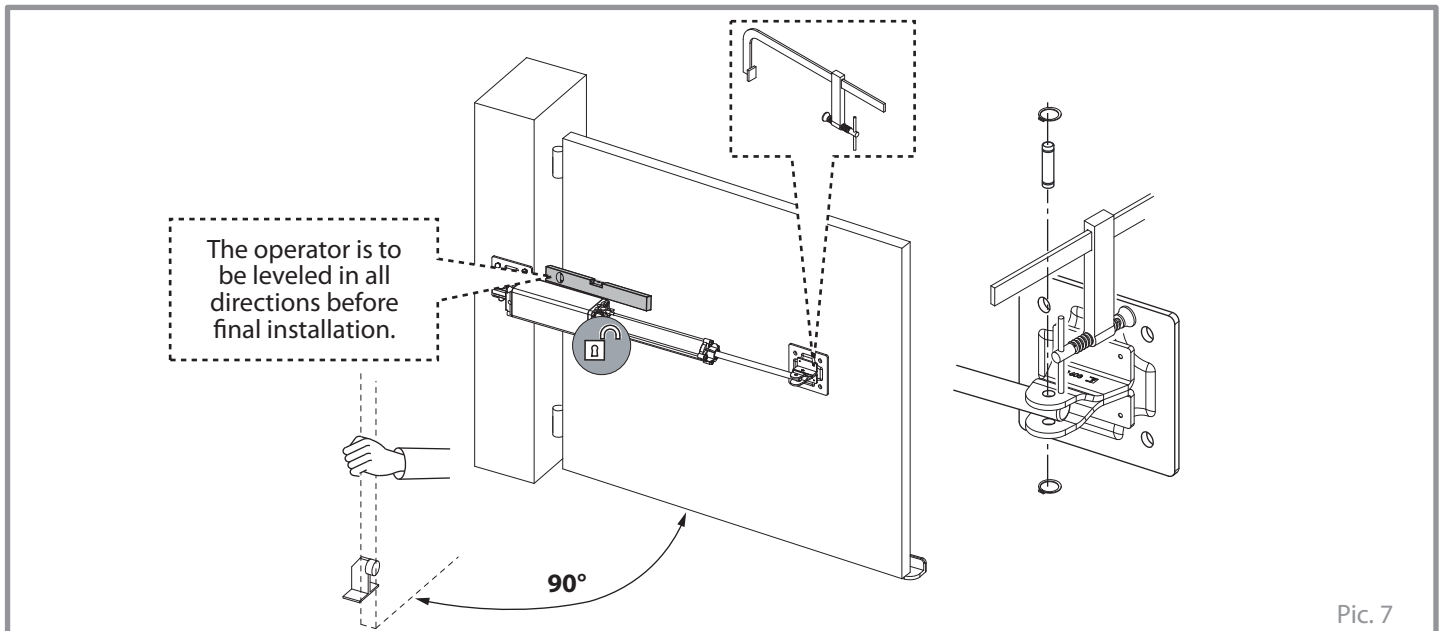
FIXING PREPARATION

First weld the front bracket and rear plate to patch plates (not supplied with the equipment), perfectly leveled (Pic. 6).



Pic. 6

! It is advised to temporary fasten Hindi 880 Sprint operator to the gate by clamps and make sure it is perfectly leveled. Then release the operator and open and close the gate by hand to asses correctness of the installation distances and get 90° opening.



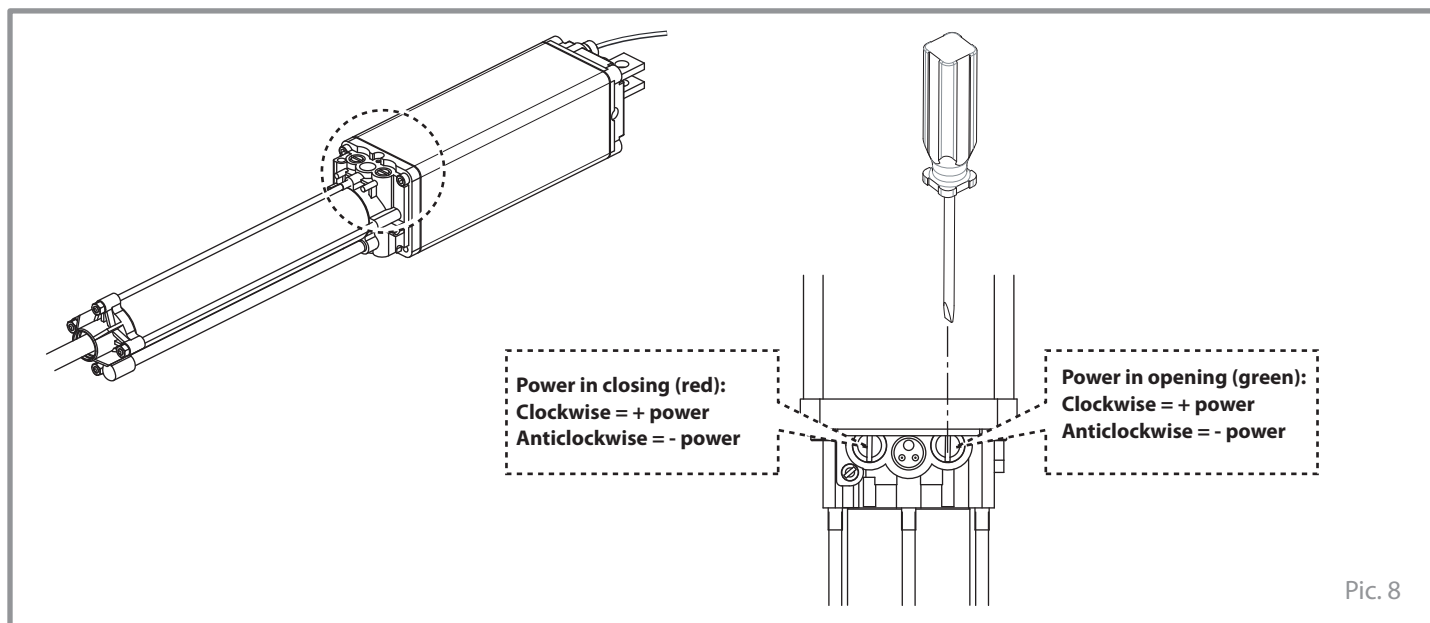
Pic. 7

ADJUSTING THRUST POWER

To adjust thrust power in opening and closing unscrew or tighten the adjusting screws under the protection cover (Pic. 8).

Red screw = controls thrust power in closing cycle.

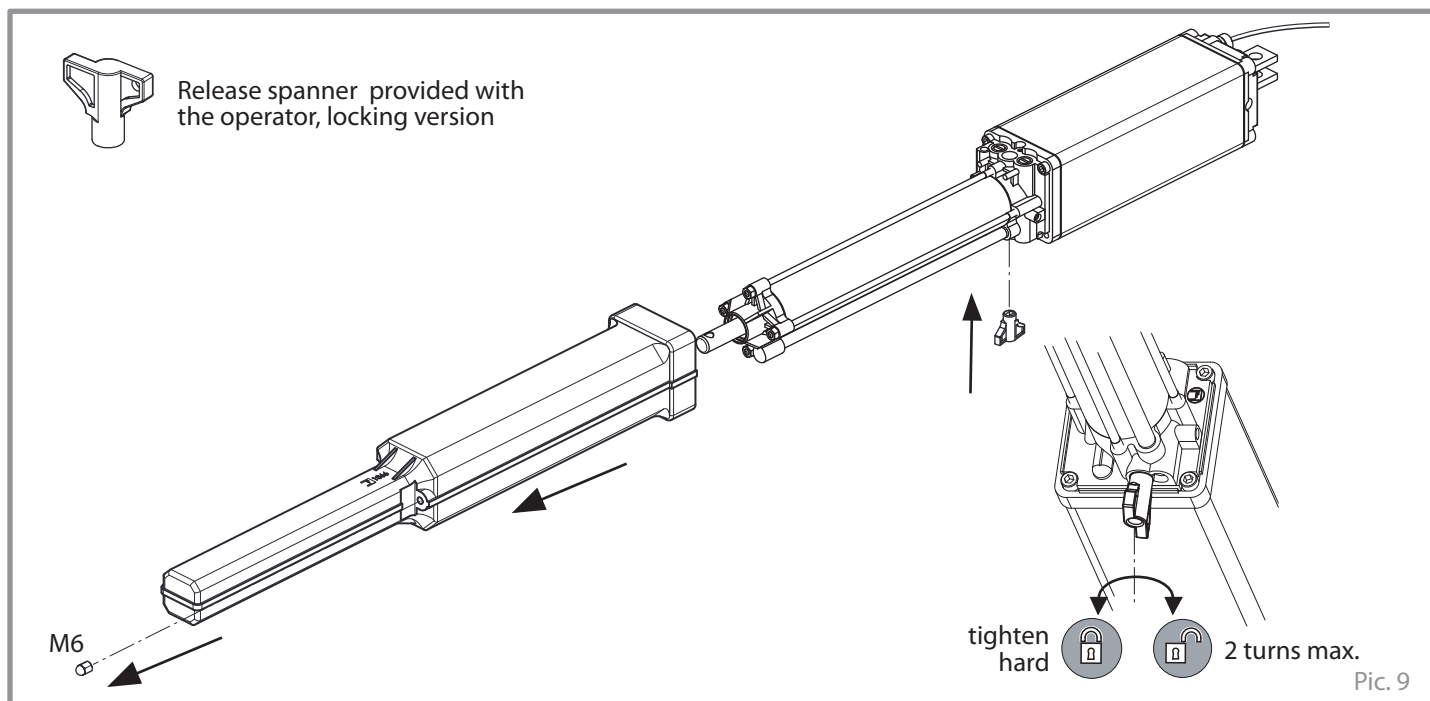
Green screw = controls thrust power in opening cycle.



RELEASING THE OPERATOR FOR MANUAL OPENING

With the version **Hindi 880 Sprint with hydraulic locking device (bidirectional or in closed gate position only)**, it is required that the unit be released by means of the provided spanner which unlocks the release device positioned under the valve assembly.

With the version **Hindi 880 Sprint without hydraulic locking device (reversible)**, there's no need to release by spanner; the gate, once motor is stopped, can be moved by hand: **with this version it is recommended that an electric lock be fitted to the gate.**



MAINTENANCE RECORD

hand over to the end user of the installation



Installation address:		Maintainer:	Date:
Installation type: Sliding gate <input type="checkbox"/> Folding door <input type="checkbox"/> Swinging gate <input checked="" type="checkbox"/> Road barrier <input type="checkbox"/> Over-head door <input type="checkbox"/> Bollard <input type="checkbox"/> Lateral folding door <input type="checkbox"/> <input type="checkbox"/>		Operator model:	Quantity of models installed:
		Dimensions per gate leaf:	
		Weight per gate leaf:	Installation date:

NOTE WELL: this document must record any ordinary and extraordinary services including installation, maintenance, repairs and replacements to be made only by using Fadini original spare parts.
This document, for the data included in it, must be made available to authorized inspectors/officers, and a copy of it must be handed over the end user/s.

The installer/maintainer are liable for the functionalities and safety features of the installation only if maintenance is carried on by qualified technical people appointed by themselves and agreed upon with the end user/s.

N°	Service date	Service description	Technical maintainer	End user/s
1				
2				
3				
4				
5				
6				

Stamp and signature
installation technician/maintainer

Signed for acceptance
end user
buyer

hand over to the end user of the installation



TECHNICAL SPECIFICATIONS

OIL-HYDRAULIC OPERATOR AND HYDRAULIC PUMP

Working pressure	10 atm (max 35 atm)
Opening/closing linear speed	~16 mm/s
Opening thrust power	0 ÷ 5.100 N
Closing thrust power	0 ÷ 6.200 N
Oil type	Oil Fadini - Item 708L
Piston stroke	235 mm
Piston diameter	45 mm
Shaft diameter	16 mm
Working temperature	-25 °C +80 °C (*)
Weight complete with accessories	9,5 kg
Max. gate weight per leaf	400 kg
Max. gate width per leaf	2,3 m
Protection standards	IP 67
Overall dimensions (length x width. x height.)	980x86x86 mm

(*) -40 °C with specific optional accessories (Ref. General Catalogue).

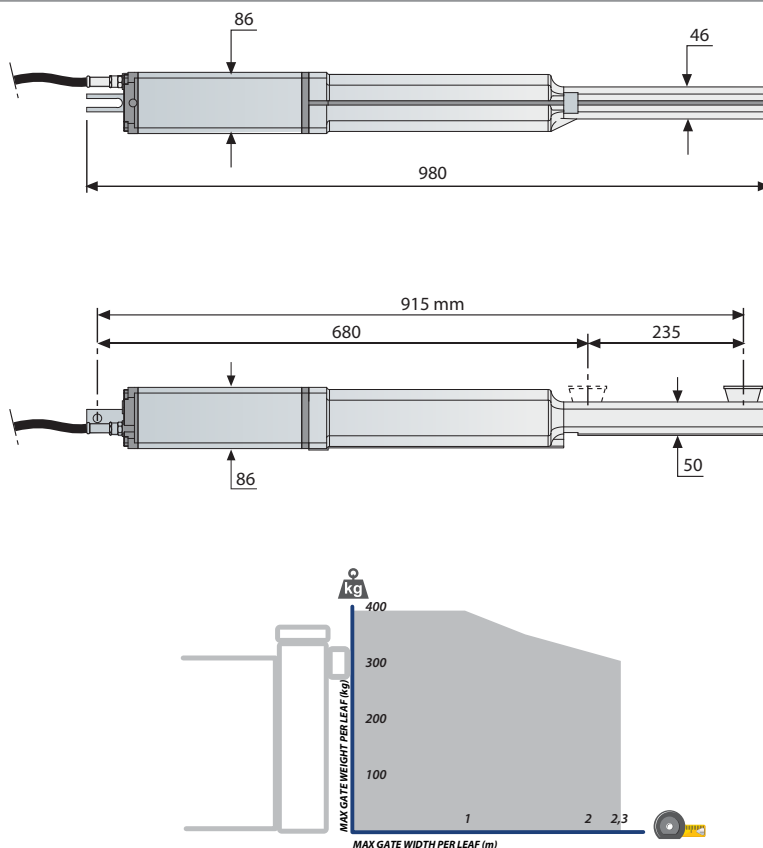
NOTE: It is always recommended to install an electric lock with gate leaves wider than 2,0 m.

ELECTRIC MOTORS

Power output	0,18 kW (0,25 HP)
Supply voltage	230 Vac
Frequency	50 Hz
Absorbed current	1,2 A
Absorbed power	250 W
Capacitor	12,5 µF
Motor rotation speed	1.350 rpm
Intermittent service	S3

PERFORMANCE

Frequency of use	intensive
Service cycle	16 s opening - 60 s dwell - 18 s closing - 60 s dwell
Complete cycle time	154 s
Complete opening - dwell - closing - dwell cycles	No. 23/hour
Annual cycles (with 8 hours of use per day)	No. 67.160



The gate structure, design (solid, in-filled), height and strong wind pressure may affect and decrease the indicated values. Make always sure the gate structure is adequate to automation.