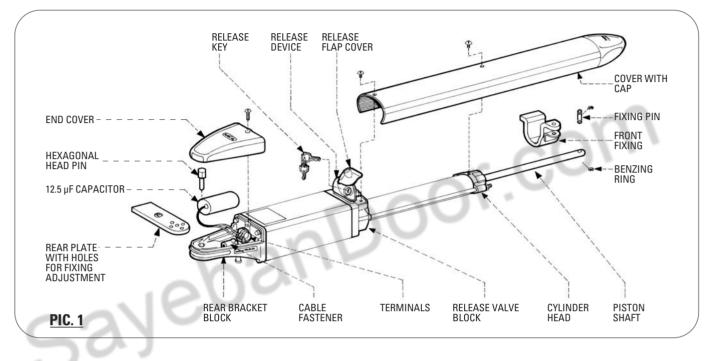
NUPI 66 FITTING INSTRUCTIONS

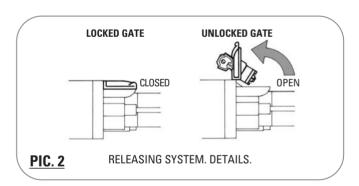
Important: Keep to the instructions outlined in the pages and diagrams that follow to achieve a perfect installation.

NUPI 66 is an oil-hydraulic actuator locking in the closed gate position to operate gates that are not wider than 2.0 m. Fixing to the gate and gate post is by specially designed brackets. Peculiar with this operator is the absence of the high/low pressure valves, power is set and controlled by the electronic control box ELPRO 7 RP (See the description as from page 12, Elpro 7 RP wiring diagram).



FITTING NUPI 66

This explains how to remove the operator cover and fix the actuator. The first operation is to unlock the operator: push the **lock flap** to one side, insert the **key** and turn it 90° clockwise. The **locking barrel** can be tilted open and the operator is now released (pic. 2). Unscrew the two screws that fix the operator cover and remove it. Unscrew the screw that fixes the **rear end cover** and remove it. The actuator is so ready for fixing operations.

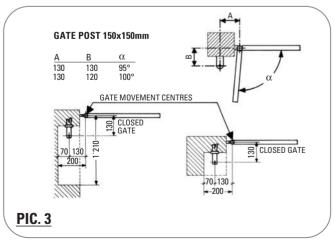


• Special fitting

There can be cases where special fitting requirements are needed to meet (gate hinges on the post edge line, brickwork to be indented, special opening,...). NUPI 66 is supplied complete with an adjustable **rear fixing plate**: a pattern of fixing holes makes the rear fixing extremely versatile to suit any gate. Refer to the diagram on the right for fixing geometry (pic. 3).

ELECTRIC LOCK

An electric lock is recommended in installations where each gate leaf exceeds 1.8 meters and is subjected to high winds or are close boarded gates.

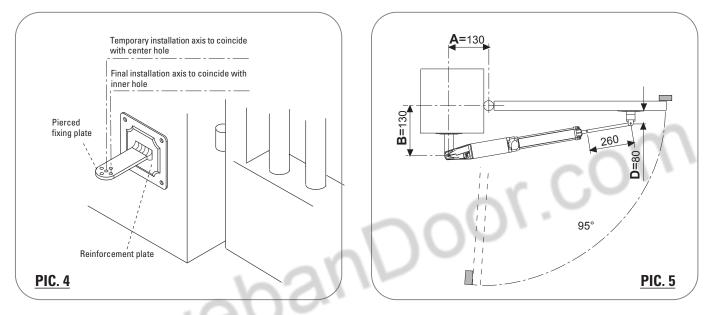




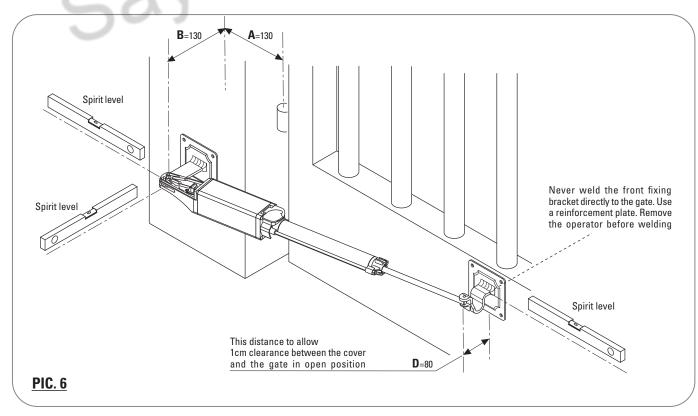
IMPORTANT: It is important to temporarily fix the operator **rear casting** using the center hole in the **fixing plate** and, once the installation is completed, move the **rear fixing** to the inner hole.

IMPORTANT: it is necessary to firmly fix the gate stops to the ground in the open and closed gate positions (See pic. 5 on page 11 and pic. 7 on page 12, parts 5 and 15) before installing the operator.

- A **reinforcement plate** (pic. 6) is recommended for the **rear fixing**, either to be embedded in the gate post, anchoring plates to be welded to improve holding, or bolted to it so that the operator rear fixing can be welded to it in full respect of the geometry indicated below. See distances A and B in pic.5 (distances are strictly referred to the center lines of the gate hinge and operator rear fixing)



- By means of a spirit level, make sure that the fixing plates are perfectly levelled, respect distance D for the front fixing, the gate in closed position, ie. operator shaft driven 260 mm out.



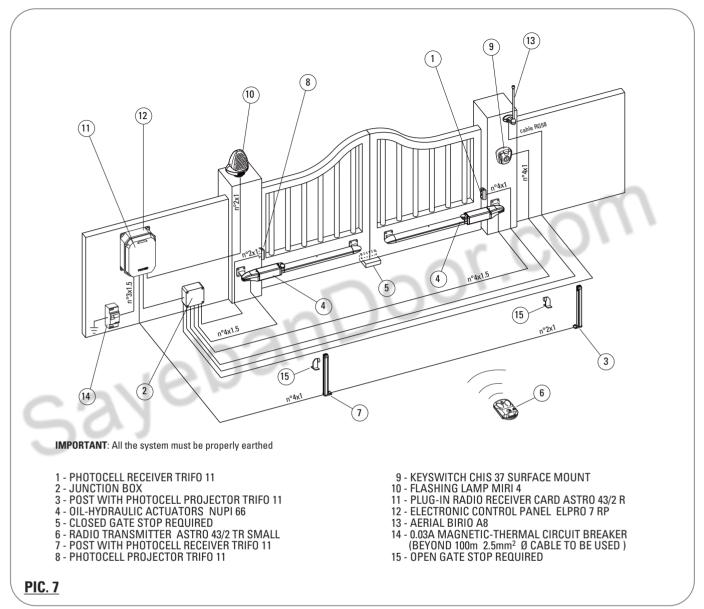
- At this stage NUPI 66 is fixed to the gate leaf. Note that it is locking when the **release lid is closed**; with the lid in the open position the locking device is overridden and the gate can be pushed open by hand (pic.2 on page 10). The electrical connections of the power supply cable to the **terminal board** are the next step. Remove the **cable fastener**. Connect <u>the neutral to the central terminal and the two live wires to the lateral terminals</u> (pic. 9 on page 12) in parallel with the **capacitor**. Put back the **cable fastener**.

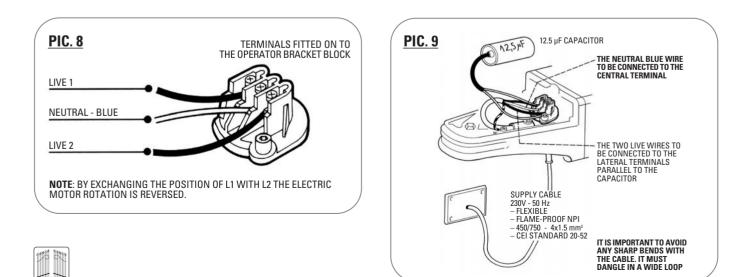
On connecting the electronic control panel **Elpro 7 RP**, it is advised to set the <u>torque control switch to position 3</u> (pic. 10 on page 13 and pic. 11 on page 14).



ELECTRICAL WIRING DIAGRAM

The diagram here below shows the electrical connections of all the accessories that are available for the system:





AD N

WIRING DIAGRAM CONTROL PANEL ELPRO 7 RP

IMPORTANT: Elpro 7 RP is specifically designed to suit NUPI 66 only. The manufacturer declines any responsibility for damages caused by incorrect use, or applications with accessories that are not FADINI.

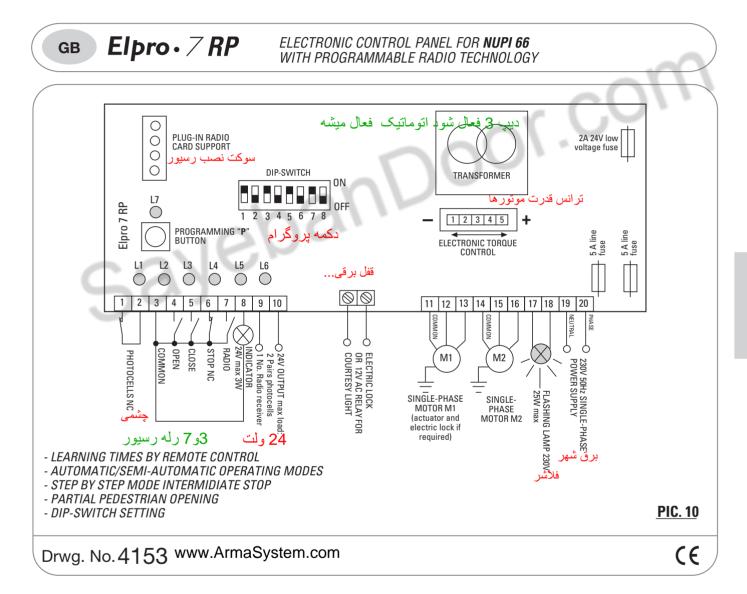
For the electrical connections to the motor of NUPI 66 and mains use 1.5 mm² cables.

For the **photo cells**, **keyswitches**, **flashing lamp**, and other accessories you can use **1 mm**² wires.

Make sure that all the electrical connections are done in compliance with this diagram.

Once the terminals 19 - 20 are supplied with 230V - 50Hz power, the neutral and live properly connected, the red led No. 1 (L1) illuminates to confirm that the board has voltage.

Read the instructions contained in the ELPRO 7 RP box.



Elpro 7 RP is an electronic control panel developed for Nupi 66. The main feature of this unit is the capability to learn the required working times during operation (gate delay in open and close cycles, dwell time). It is recommended to carry out the installation in strict compliance with the rules of good technique and fit the system with ground stops in the Open and Closed positions.

Elpro 7RP is to be powered with 230 V single-phase voltage. It is manufactured in conformity to 2006/95 CE Low Voltage Safety Norms and 2004/108/CE and 92/31 CEE Norms for the Electro Magnetic Compatibility. Installation is to be carried out by qualified technicians in compliance with the existing safety regulations. The manufacturer is not liable for incorrect use of the equipment and reserves the right to do changes to the unit and this manual any time.





ELECTRONIC CONTROL PANEL FOR **NUPI 66** WITH PROGRAMMABLE RADIO TECHNOLOGY

DESCRIPTION OF FUNCTIONS OF THE CONTROL PANEL FOR SWINGING GATES

ELECTRICAL CONNECTIONS:

- The control panel must be installed in a sheltered, dry place, inside the box provided with it.
- Fit the mains to the control panel with a 0.03A high performance circuit breaker.
- Use 1.5mm² section wires for voltage supply and electric motor. Maximum recommended distance 50m.
- Use 1mm² section wires for limit switches, photocells, push-buttons/key-switch and accessories.
 Bridge terminals 1 and 2 if no photocells are required.
- Bridge terminals 3 and 6 if no key- or push-button switches are required.

N.W.: To fit extra accessories such as lights, CCTV etc. use only solid state relays to prevent damages to the microprocessor

LOGIC: Elpro 7 RP is supplied with pre-set working times to allow the first installation:

- Working time is about 20 s
- Gate Delay Times: Opening=2 s
 - Closing=6 s
 - Dwell on automatic Mode=15 s

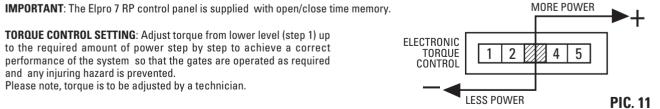
Once satisfied that the system is working all right, new working times can be programmed to meet the user's needs or the installation requirements. Elpro 7RP functions can be set by Dip-switches, both before and after the times have been stored by the unit.

LEARNING THE TIMES: ELPR0 7 RP learning operation is quite easy and can be achieved either by the P button on the PCB or by the remote control after entering setting mode, see point 1).

Starting the unit to learn the required times: with the gate in closed position pulse the equipment to one complete cycle, ie. open-dwell-close. Important:

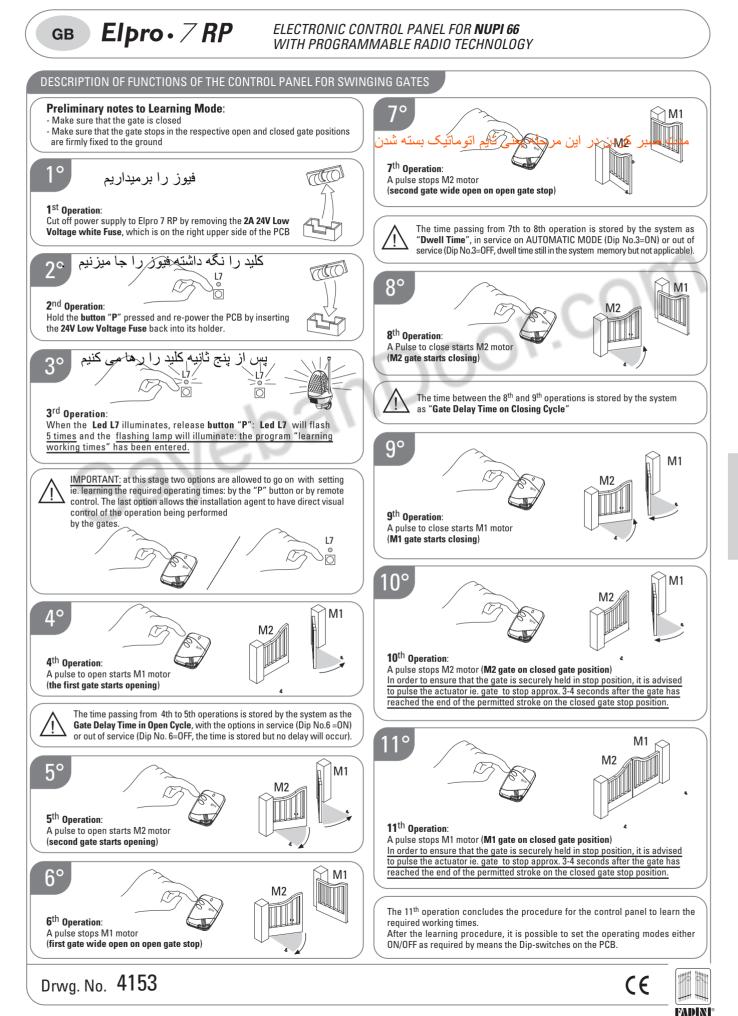
- 1) In order to avoid setting times which are not suitable to the correct gate functioning, some time limits are pre-set. Beyond these values the automation will start with the maximum pre-set time:
- M1 and M2 Motor Run time: max.55s Dwell time on Automatic Mode: maximum 90s
- 2) During the learning operation, no other functions can be activated, the Photocells and the Stop button are out of service
- 3) If the new setting operation is interrupted (for example: mains cut off), the times in the previous setting are memorized.
- 4) Normally, not on programming mode, the P button has the same function as a remote control button and it is possible to test the system by pulsing it; the Led 7 becomes a simple indicator, the same as the indicator to terminal 8.

Led Status Indication: L1=230V 50Hz power supply. Alight L2=Photocells, if obstructed light goes off L3=Open. Alight whenever an Open pulse is given L4=Close. Alight whenever a Close pulse is given L5=Stop. It goes off on pulsing Stop L6=Radio. It goes on by pressing a transmitter button L7=Gate Status; and programming led	Dip-Switch:DIP-SWITCH1 = 0N Photocells, Stop during opening 2 = 0N Radio no reversing during Opening 3 = 0N Automatic Closing 4 = 0N Pre-flashing in service 5 = 0N Radio step by step. Stop in between 6 = 0N No delay on opening 7 = 0N Additional pushing on the gate leaf after closing 8 = 0N Pedestrian opening by Open button0N
24V 3W Indicator: B Led On = the Gate is Open Led Off = the Gate is Closed Fast Flash = closing movement Slow Flash = opening movement	Pedestrian Opening (M1 Motor by Open pulse): Partial opening for pedestrians is only allowed in closed gate position by pulsing to Open (the gate closes after the dwell time if set to Automatic Dip-Switch 3=ON) -the first pulse operates 1 gate leaf (M1) -the second pulse operates the second gate leaf



TORQUE ADJUSTING WHEN LIGHT GATES ARE INVOLVED: (made of timbers, PVC or aluminium etc. ...) replace the existing capacitor with a 8 µF one and adjust torque accordingly starting from step one (lowest setting).





English