

PROSTART 100% ELECTRIQUE PROSTART Safety Gate

Settings, Inspections & Maintenance

1/ Settings

All the settings about the use of the gate are shown on the manual given at the installation of the starting gate. Please find it below in small scale:

REMOTE CONTROL

Emergency stop
Manual mode
Automatic mode

MANUAL MODE

- Switch on the PROBOX
- Release the emergency stop button
(Prostart welcome)
- Press the MANU button
(Gate is going up)
- Press the MANU button
(Attention)
- Press the MANU button
(Start is coming)

AUTOMATIC MODE

Switch on the PROBOX
Release the emergency stop button
Press the AUTO button
(Stop after 15 starts)
Automatic mode stops after pressing the AUTO button
Does not work with programs II

Canceling a start by pressing the MANU button before the last sentence (Before "Watch the gate")

HOW TO CHOOSE A PROGRAM

Switch on the PROBOX → Press the emergency stop button → Open the door of the E-BOX
← Release emergency stop ← Select the wished programme through Up & Down arrows ←

PROGRAM N°1

Training program
Random start without voice
(Only beeps et lamps)
Works in Auto & Manu modes.

PROGRAM N°0

Official program
Random start - UCI conformity
(Between 0,1 et 2,7 seconds)
Works in Auto & Manu modes.

PROGRAM N°II

Training program
Short or long start
(0,1 OR 2,7 seconds)
The Auto button is a swing in order to move from short to long start.
Works in Manu mode only.

After switching on the E-BOX, program N°0 is automatically set up.

VOICE CARD

In opening the starting system, you can access on voice card.
The volume of speakers can be adjusted from this card thanks to the black potentiometer.
Do not turn up to the maximum in order to avoid any overheating.
A jack plug with an unamplified sound output is available in order to connect the gate to a sound amp during competitions.

www.prostart.fr - quentin.grun@prostart.fr - +33.689.044.061

HOW TO ADJUST THE TIMING

4 TIMING

Fixed Green	(Gate will go down at the beginning of green)	UCI Official Timing
Fixed Green & red blinking	(Gate will go down +60ms after the beginning of green)	
Fixed Green & Orange1 blinking	(Gate will go down +120ms after the beginning of green)	
Fixed Green & Orange2 blinking	(Gate will go down +180ms after the beginning of green)	

OPERATIONS

Switch on the E-BOX
Press the emergency stop
Press the MANU button during 5 seconds
Release / Press the MANU button until find the wished timing

HOW TO ADJUST THE TIME BETWEEN TWO AUTOMATIC STARTS

4 TIMES

Red	One start every 30 seconds
Orange 1	One start every minute
Orange 2	One start every two minutes
Green	One start every three minutes

OPERATIONS

Switch on the E-BOX
Press the emergency stop
Press the AUTO button during 5 seconds
Release / Press the AUTO button until find the wished timing
Release the emergency stop

SYSTEM WARNING

If the gate spells in French «Défaut du moteur électrique», first things is to wait than the initialisation is completely finished. If the warning is still on, we advise you to read the instructions in the inside of the E-BOX door to identify the problem meet.

www.prostart.fr - quentin.grun@prostart.fr - +33.689.044.061

2/ Inspections and maintenance

Inspections at every use: The quality of the gate drop is a steady inspection. If the gate realizes an unusual drop, immediately stop the system to understand the situation. Please find below the main reasons:

- The fixations of the ram are weakened. To check that, the two center grates need to be removed. If the fixations look good, make one or several gate drops to see if everything is correct.
- The aluminum door (the gate itself) is weakened. To check that, listen to the metal during some gate drops to identify where could come from the problem. Some welds can be damaged or broken.

Maintenance at every use: Nothing except making sure to switch off the system

Inspections every 3 months: Simple visual inspection of the gate welds. Aim is to identify some weak welds in order to reinforce them before it can damage the whole gate.

Maintenance every 3 months: Greasing of the 9 gate hinges with a grease gun. 16 nipples are at disposal. You can use general grease.

Inspection every six months or before a major competition:

- Remove the two center grates to access in the ram area. Aim is to control that the clevis are well-fixed and well-greased.
- Check the volume of the speaker before an event. If the volume is not high enough, you can use an external speaker using the available 3.5mm jack plug inside the E-BOX.
- Check all the electronic is performing well. All the remote buttons are working and also the speaker, gate motion and two LED lights.

Maintenance every six months or before a major competition:

- Greasing of the 9 gate hinges with a grease gun. 16 nipples are at disposal. You can use general grease.
- Greasing of the 2 clevis brackets of the ram.
- Turn up the screws of the clevis brackets to make sure everything is well tightened.

Maintenance during a major competition above 500 riders:

The electric gate needs be reinitialized every three hours approximatively. It gives a full reset of the system and adjust better the quality of the gate.

Conditions of use:

The lowest operating temperature is given at -15°C (5°F) Below, it could damage all the electronic and mechanical parts.

The highest operating temperature is given at +40°C (104°F) Above, the motor will overheat, and it can damage seriously the performance of the motor and the performance of the Servo-Driver located inside the control box (E-BOX)

If you have to use the gate within that temperature range, the whole gate system needs to be switched-off for 5 minutes every two hours, so all the system can cool down a bit. We advise you to let the control box panel open to reduce at best the temperature. A cooler can be installed toward the Servo-Driver in order to refresh the air around this device.