

Maintenance booklet and removal manual

N°2104

05/18

Murax P110 Shutter/Dentel Grille
fitted with an anti-fall guard

Tubular operator



(Document reserved for users)

Maintenance and inspection booklet

Intervention frequencies

Operating mode	Number of visits per year	Maximum number of cycles between visits
Hold to run	1	2500
Mixed	2	2500
Pulse		
Automatic		

Site address :

Status and name of the fence element :

Maintenance check points (see enclosed maintenance booklet)



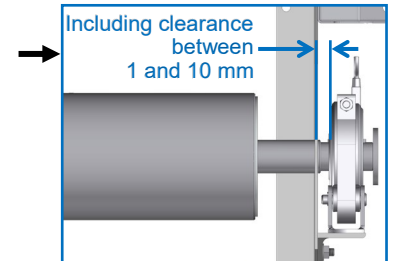
**Clean the shutter regularly with clear water.
The use of detergent may degrade the color or gloss of the coating.**

A/ SHUTTER

- **Checking the shutter fasteners on the axis :**
 - . Condition of the shutter fasteners.
 - . Screw condition and tightening.
 - . Condition and anchoring of captive nuts.
- **Checking vertical slat alignment.**
- **Checking the condition of the slats and joints** (shocks/dirt, etc.).
- **Checking the condition of the staples and tubes** (Dentel Grille).
- **Checking side clearances.**
- **Function check of the lock :**
 - . Condition of the lock and linkage.
 - . Check the free passage of the guiding rails in the slide holes and in the wall (if inter-wall installation).

B/ AXIS

- **Opposite side to the operator :**
 - . Check the condition and tightness of the clamp screws of the anti-fall guard corner piece support and the anti-fall guard.
 - . In the event that the anti-fall guard is triggered due to mechanical failure, it must absolutely be replaced.
 - . Check the presence of the clamping washer and the tightness of the clamp screw at the end of the keyed shaft.
 - . Check the clearance between the shoulder and the anti-fall Guard, it must be between 1 and 10 mm.
- **Operator side :**
 - . Check the operator/tube connection screws.
 - . Check the screws connecting the brackets/plates.



C/ GUIDING RAILS AND PLATES

- **Checking the guiding rail fasteners on the framing.**
- **Checking the plate fasteners on the framing.**
- **Checking the condition of the guiding rails and plates** (internal clearances, no unevenness).
- **Clean the inside of the guiding rails and plates.**
- **Extensive lubrication of the inside of the guiding rails and plates.**
- **Check the guiding rail/plate connection** (no unevenness).
- **Check invitation settings.**
- **Check the alignment of the plates** (perpendicular to the header and parallel to each other).

D/ ELECTRIFICATION

- **Check the value of the supply voltage.**
- **Check the state of the electrical wiring and its protection** (circuit breaker).
- **Check the electrical operation of the operator.**
- **Check the operation of the emergency maneuver.**
- **Check the setting and function of the limit-switches.**
- **Check the function of the safety microswitches on the lock** (if installed).
- **Check the access and operation of the power circuit breaker** (it must be located near the shutter).
- **Check the current consumption during operation and the operation of the thermal operator protection circuit breaker.**

Maintenance booklet

intended for the owner of the fence element

Manufacturer's name : **FTFM LA TOULOUSAIN (31750)**
 Fence element identification number :
 Job site reference :
 Installer name :
 Date of installation :
 Type of operation :
 Safety devices :
 Final test of verification and operation carried out by the installer :
 Date : Observation :

Name : Signature :

Instructions for use : See user guide.

Logging of interventions						
Type of intervention				Intervener		
Maintenance	Repair	Replaced parts	Improvement	Date	Name	Signature

WARNING :

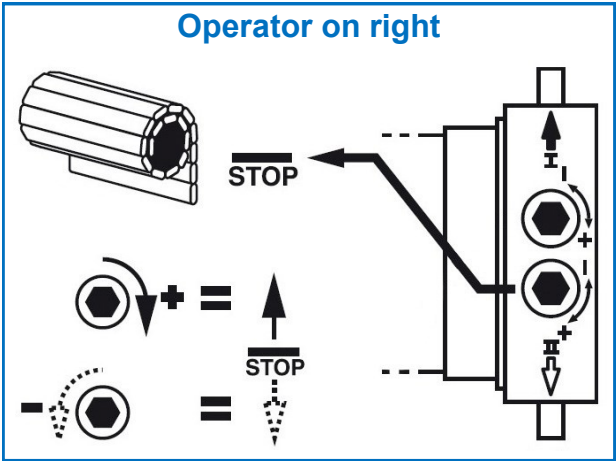
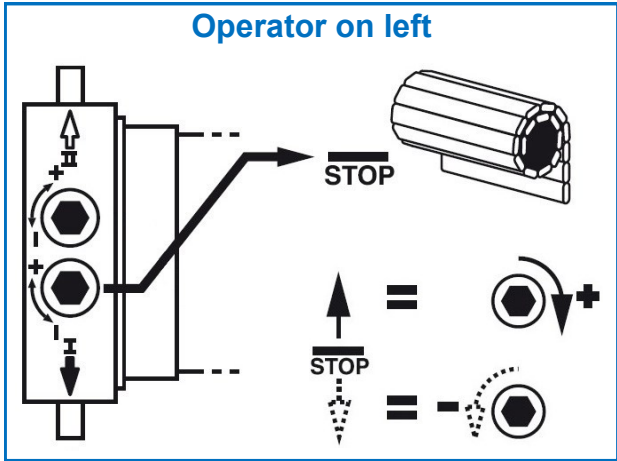
Any modification or improvement of this fence element must be compliant with the standard EN 13 241 + A2. In this case, a "modification/transformation" file must be created as per the standard EN 12635 annex C.

Removal instructions

- 1 - Electrically raise the shutter and manually remove the final slat from the guiding rails. For this "raise" the high limit-switch (**direction +**).



Limit-switch settings must only be made with the hexagon head screwdriver supplied.



- 2 - Pick up the start curves (twist up).
- 3 - Lower the shutter completely out of the guiding rails.
- 4 - Disconnect the operator and controls.
- 5 - Remove the shutter completely.
- 6 - Operator side : Disassemble the upper half-plate.
- 7 - Opposite side to the operator : Remove the FHC M8x16 screw and clamping washer.
- 8 - Remove the axis.
- 9 - Disassemble the guiding rails.

