

# Maintenance booklet and removal manual

N°2114

10/20

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

**S100 or S140 operators**



(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.**

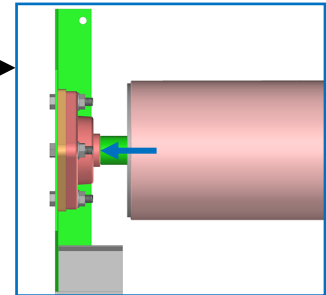
### A/ SHUTTER

- **Checking the shutter fasteners on the axis :**
  - . Condition of the shutter fasteners.
  - . Screw condition and tightening.
- **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 rods in the guiding rail holes and in the wall (if inter-wall installation).

## B/ AXIS

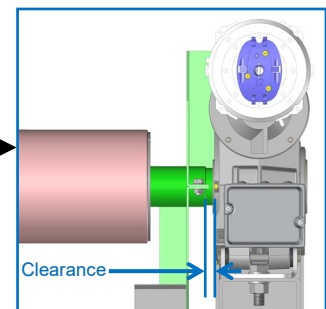
- **Opposite side to the operator :**

- . Check the condition and tightness of the screws securing the bearing to the plate. (+ lubrication of the bearing)
- . Check that the shouldered shaft is in contact with the bearing.
- . Check for the presence of the washer at the end of the smooth shaft.



- **Operator side :**

- . Check the condition of the keyed pipe/shaft connection welds.
- . Check that operator is securely mounted on its support.
- . Check the clearance between the shoulder and the operator, it must be between 5 and 10 mm.
- . In the event that the anti-fall guard integrated in the operator is triggered due to mechanical failure, the operator must be replaced.



## C/ GUIDING RAILS AND PLATES

- **Checking the guiding rail fasteners on the framing.**
- **Checking the fasteners of the plates to 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 alignment of plates** (perpendicular to the header and parallel between themselves).
- **Check the fastening of the operator support to the framing.**

## D/ ELECTRIFICATION

- **Check the value of the incoming voltage.**
- **Check the state of the electrical wiring and its protection** (circuit breaker).
- **Check the electrical operation of the operator.**
- **Check functioning of emergency operation.**
- **Check the 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.**

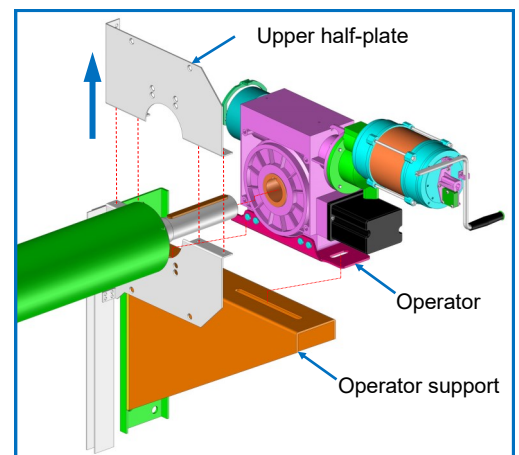


# Removal instructions

- Electrically raise the shutter and manually remove the final blade from the guiding rails. To do this, increase the upper limit switch (see installation instructions, Chapter : Quick adjustment of limit switches).
- Lower the shutter completely out of the guiding rails.
- Disconnect the operator and controls.
- Remove the shutter completely.

## Operator side (OS) :

- Disassemble the upper half-plate.
- Unscrew the operator and remove it.
- Disassemble the operator support.



## Opposite side to the operator (OO) :

- Unscrew the bearing from the plate by removing the M10x45 H screws.
- Remove the axis.
- Disassemble the guiding rails.

