9000 Series MLR (motorized latch retraction device)

DORMA makes every effort to ensure all MLR units are adjusted properly and tested prior to shipping with units attached to the respective chassis assembly they will be used with, along with the proper power supply. This is a guide to assist in field trouble shooting should the need arise.

Remove input power prior to attempting to make any corrections or changes listed on the following pages.

1. *When energized the touch bar attempts to pull in and retract latches but pops back out or jumps.*

    a. Check rod adjustments if being used with a surface vertical rod or concealed vertical rod device. If rods are too long the above will happen. Re-adjust rods and re-energize device and check again. The touch bar should travel almost completely down and almost flush with the rear filler and hold as long as energized.

Note: Flat head screws **MUST** be used to mount chassis to door.

"Specified fastener's should be used at all times during installation. Improper fastener's may cause product to fail or void UL listings or warranty."

Note: Pan head screws (3) **MUST** be used to mount latches to door. Round head screws can cause the rods to bind and not move properly up and down.

Top latch fully extended and deadlatched. Rod shown is too long. Adjust upward by rotating counter clockwise until flush with bell crank.

Top latch fully extended and deadlatched. Rod fully extended and flush with bell crank.

Rod fully extended and flush with bell crank. Retaining plate installed flat against bell crank with leg extending through rod and mating hole in bell crank.

Top latch fully extended and deadlatched.

2. *When energized the touch bar pulls completely in, however latches are not retracted far enough to exit door.*

    a. Check rod adjustments if being used with a surface vertical rod or concealed vertical rod device. If rods are too short the above will happen, rotate rod clockwise to lengthen. Readjust rods and re-energize device and check again.

3. *When energized the touch bar does nothing.*

    a. Verify all wire connections and that the power supply has power from main power source.

    b. Verify proper power supply DORMA PS610RF/PS532RF is being used as well as **24VDC** output.

    c. Verify proper card is being presented to card reader (if being used).

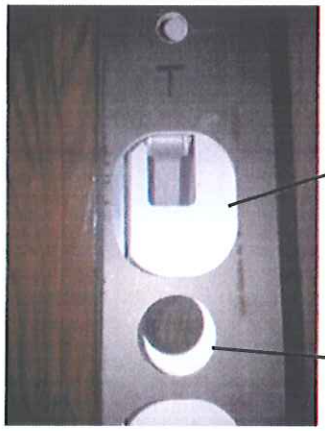
    d. Verify wire size and run distances are to required specifications. (See page 1 of instruction sheet)

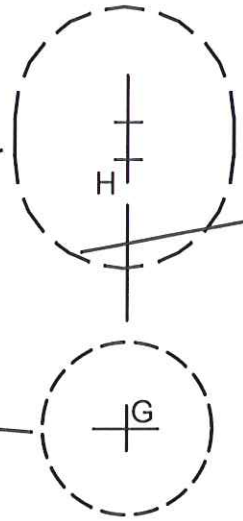
4. *When de-energized the touch bar stays down or rods do not drop and latches do not extend.*

    a. Check to ensure the touch bar is not bound in the filler or chassis cover area. Check to ensure rods are not bound by mounting screws or cover screws. Ensure device has been de-energized. Ensure top strike is aligned properly with latch to engage tripping lever and release latch bolt.

9000 Series MLR (motorized latch retraction device)

Check to ensure door is prepared correctly to allow clearance for spindle and acutator of trim to move freely.



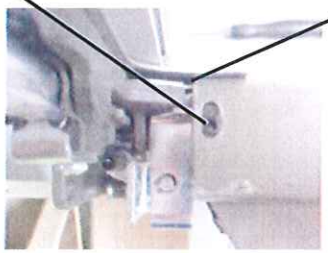


H 1 1/2" Dia. x 1 3/4" High outside face for cylinder clearance. If actuator has nylon sleeve installed; additional material may be required to be removed at bottom.

G 1" Dia. thru for spindle clearance

Touch bar and rail assembly should be installed to chassis using supplied screw located in chassis. Hole in chassis should align with slotted hole in rail as show approximately centered. **Rail does not set against rear of chassis.**

In-correct



Correct

The slotted hole should not be modified; This causes the nose of the touch bar to make contact with the bracket located on the chassis which in turn can cause it to bind, as well as mess up the timing of the moving parts. It may also cause malfunction of the outside trim assembly by putting it in a bind. Tighten screws until they make contact with rail surface do not over tighten.

Touch bar and rail along with chassis should sit flush on the door; any warping or unlevelness may cause bind issue with the motor assembly.

Read and follow all installation steps noted with in the standard installation manaul supplied with the device.
"*The device must be installed properly and working properly mechanically prior to being energized electrically.*"

The pages have been compiled from actual installation issues in the field. Their intent is to assist other installers.