REF. 202740680

INTERIOR OPENING MECHANISM FOR PEARES RECESSED LOCK

ASSEMBLY INSTRUCTIONS

V01 03.11.2020

MRF SOLUTIONS

INTERIOR OPENING MECHANISM FOR PEARES RECESSED LOCK

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1. REMOVE A SECTION OF PANEL TO ACCOMMODATE DE LOCK

The standard dimensions to accommodate the Peares recessed tray are: **285x129x31mm** (FIGURE 1)

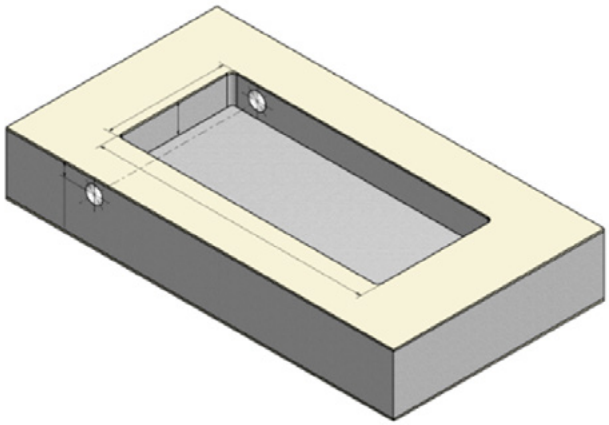

FIGURE 1: Shows detail of the panel section removed to accommodate the recessed tray.

NOTE: *The depth of the section removed is 31mm for the 29mm recessed tray. For the locks that come with a 25 mm tray, the depth of the section needs to be 27mm.*

2. DRILL A HOLE OF Ø5,5MM ON THE RECESSED TRAY

To drill the hole, turn the tray upside down and use the pre-existing hole on the tray as a guide. The hole needs to be drilled **106,5 mm** from the center of the main shaft and **82 mm** from the edge of the tray as shown in (FIGURE 2)

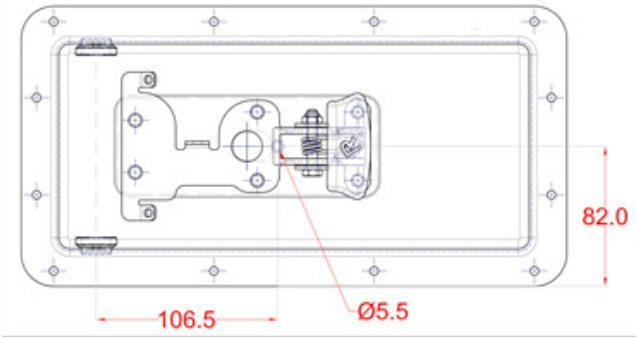

FIGURE 2: Plan view of the Peares recessed tray

NOTE: *The drilled hole on the tray (Ø5.5mm), matches the position of the push button. Caution needs to be taken during the drilling operation to avoid damaging it.*

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3. DRILL A Ø5.5MM HOLE ON THE INSULATION PANEL

Position the recessed tray on the removed section of panel. Drill a hole of Ø5.5mm through the panel using existing hole on the tray as a guide. (FIGURE 3)

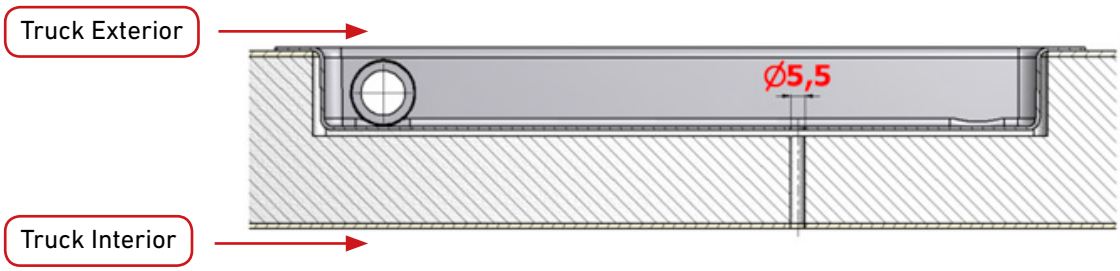

FIGURE 3: Detail section of drilled Ø5.5mm hole

NOTE: *The drilled holed on the panel (Ø5.5mm) must be perpendicular to the base mounted on the tray. It is necessary to dismount the push bottom piece on the tray to perform the drilling operation with ease.*

4. EXPAND THE DRILLED HOLE TO Ø100MM (FROM THE INTERIOR SIDE OF THE TRUCK)

To accommodate the internal opening tray, the panel thickness needs to be greater than >65mm. (FIGURE 4)

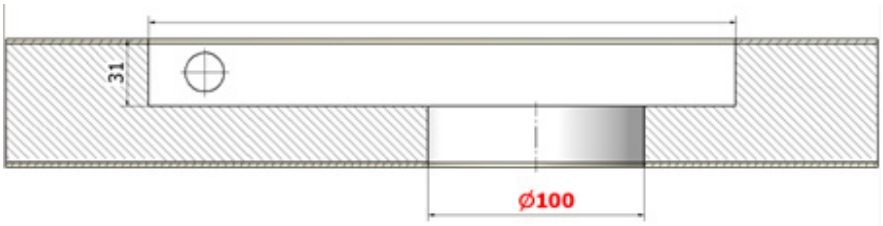

FIGURE 4: Detail of panel section removed Ø100mm

5. PRE-ASSEMBLY OF THE INTERNAL OPENING MECHANISM: SHAFT, TRAY, AND LOCKNUT

To facilitate the system adjustment, it will be necessary to screw the shaft with the tray and locknut until the shaft reaches about 1.5 ± 0.5mm below the upper face of the locknut.

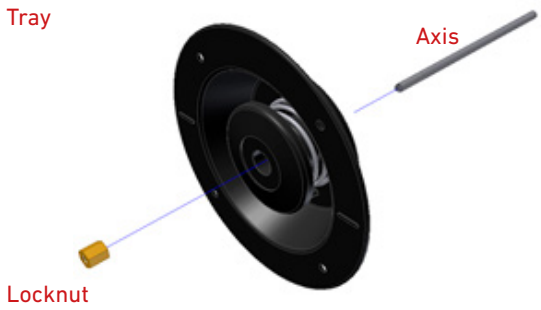

FIGURE 7: Exploded View of shaft + tray + locknut

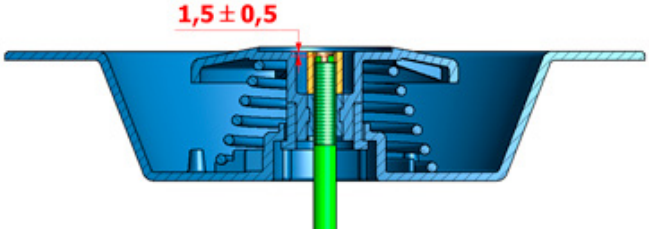

FIGURE 8: Detail section of shaft + tray + locknut

TOOLS: *Ø4 mm flat screwdriver*

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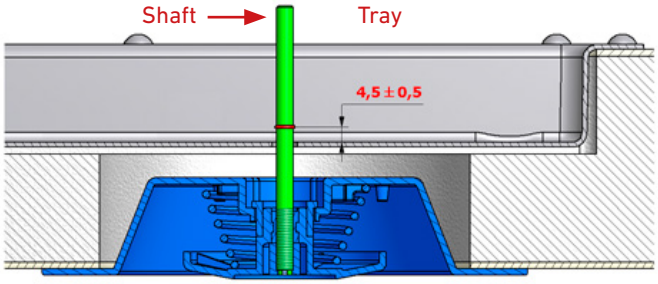
6. MARKING AND CUTTING OF THE SHAFT

Position the assembly (shaft, tray, and locknut) on the panel and mark this position to indicate the cutting height for the shaft: H = 4.5 ± 0.5 mm (distance from the lock tray to the cut edge of the shaft).

Remove the internal opening assembly and make the cut on the marked position. Proceed to fix the tray to the panel by using rivets or screws Ø 5mm.



7. ASSEMBLY OF EXTERIOR AND INTERIOR COVERS.

The installation of the covers is not mandatory for proper functioning of the mechanism; however, these parts are provided for truck body-builders who want to provide more precision and quality to their installation.

The design of the covers allow for adjustment of the mechanism according to the width of the panel (maximum panel thickness is 100mm) (FIGURE 10).

If the panel thickness is less than the sum of the 2 covers, the installation can overlook the exterior cover and use only the interior cover; If necessary, the interior cover can be cut to match the thickness of the panel. In case of only using the interior cover, the hole on the lock´s tray needs to be widened to Ø 7.5mm.

The use of the covers allow for protection of the internal opening mechanism once assembled; it allows the injection of insulation material in the section of panel removed thus reducing the thermal bridge without affecting the mechanism. (The recommended area for application of the insulation material is accessed from behind the tray of the lock, (FIGURE 13), add the insulation material without fixing the tray)

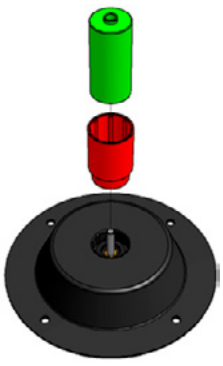


FIGURE 10: Exploded view tray + covers

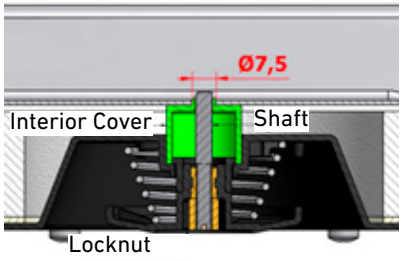


FIGURE 11: Detail view of insulation injection

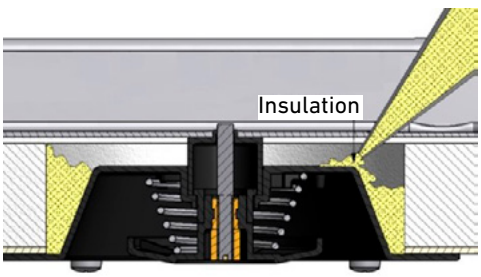


FIGURE 12: Detail view of cover installation

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8. SYSTEM ADJUSTMENT

By means of a female socket wrench, the brass locknut that is supplied loose in the package can be fixed to the one in the push button until both are seized.

To correctly assemble the mechanism is necessary to lock the shaft rotation by means of a screwdriver going through a pipe wrench DIN 896 B de 8x10.

Last, stick the photoluminescent sticker to the top side of the internal opening push button.

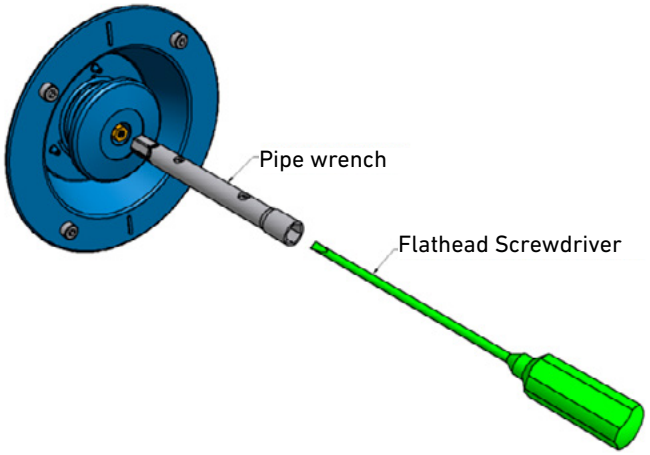

FIGURE 13: Exploded view of the tray + pipe wrench + screwdriver

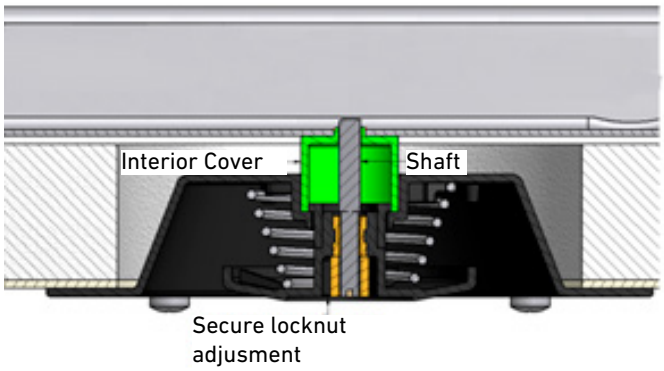

FIGURE 14: Detailed section view of locknut adjustment

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RECOMMEDATIONS FOR USE

The design of the internal opening mechanism was developed to allow unlocking from the interior side of the truck in case of accidental closure from the exterior side; under no circumstances, it should be used on a regular basis as the primary mechanism to open and close the doors since this will promote early wear and tear of the components and a possible malfunction.

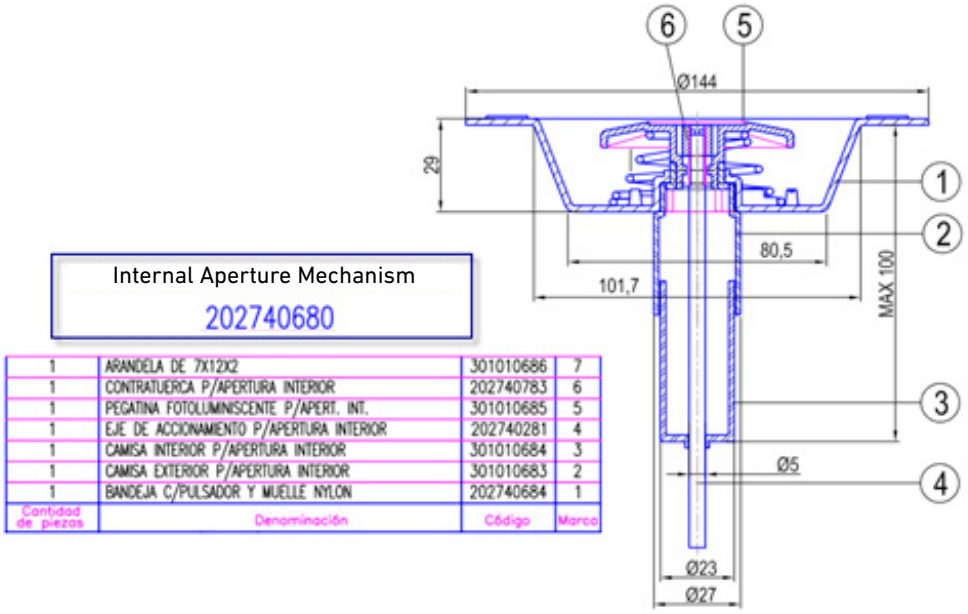

FIGURE 15: Internal opening mechanism blueprint

EXCEPCIÓN: *Minimum thickness of the panel to assemble the internal opening mechanism inside the panel is 65mm. For panel thickness less than <65mm, MRF can supply (on request), a metallic supplement that will increase the thickness until reaching the necessary minimum* **(FIGURES 5 AND 6)**. *When using this solution, the drilled holed on step 3 will be Ø24mm when installing the interior cover only* **(FIGURES 6, 11, 12 AND 13)**, *if the cover is not used, a drilled hole of Ø5.5mm will be sufficient as seen on step 2.*

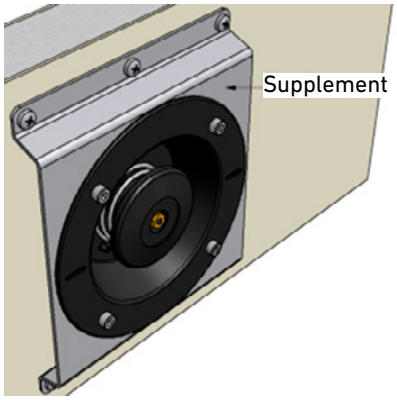

FIGURE 5: Internal opening blueprint.

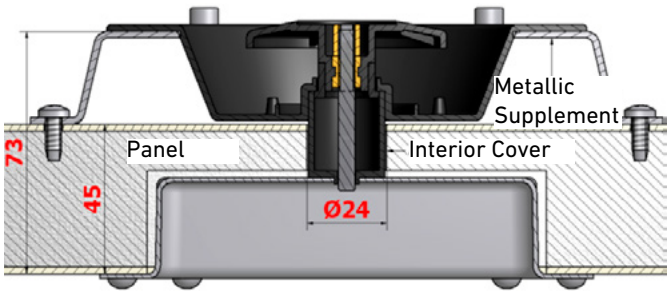

FIGURE 6: Detailed view: panel section + metallic supplement.