

Panic and Emergency Exit Devices

Introduction

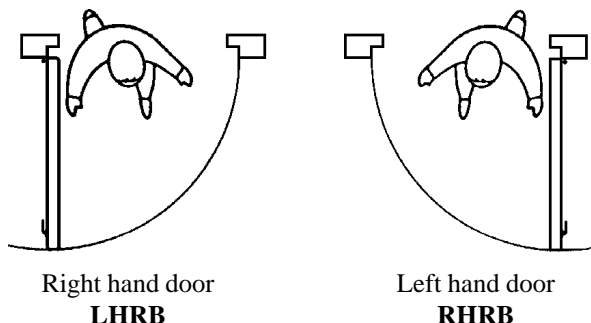
Axim Emergency Exit Hardware is guaranteed for a period of 30 months from the date of manufacture against defect in material and workmanship. The guarantee is void if the product has been incorrectly installed or damaged in use. The following notes provide information relating to correct specification of hardware and outlines recommended maintenance procedures which should ensure the hardware will operate trouble free for many years.

There are many types of emergency exit devices and this document will cover 3 of those types.

- Emergency exit push handle.
- Concealed panic bolt push bar.
- Panic Latch push bar.

Some of these types are handed and Fig. 1 explains how to determine the hand. This is most important when quoting hardware and helps eliminate costly mistakes.

Door handing fig. 1



Emergency Exit Push Handle / Push Bar with concealed locking rods

The emergency exit push handle comprises a *handed* push paddle which operates concealed locking rods. This type is designed for use with hollow doors i.e. aluminium, steel or PVCu. It is

not suitable for timber doors. The push bar type uses the same internal mechanism which is activated by the full width crash bar. The mechanism may be connected to either housing and therefore the unit is non-handed.

It is important to realize the internal handles are designed to be pushed in an emergency to release the door and although the handles are used to pull the door closed to reset the hardware. They are not intended to be used in high traffic areas where the handles are used to pull doors closed on regular intervals.

If installed correctly the hardware requires little maintenance, however, the following instructions will extend the life of the product if carried out on a regular basis.

Six monthly maintenance

Check that the emergency exit hardware operates and the door can be opened in the correct manner. Ensure the door operates smoothly and carry out routine maintenance as per door manufacturers instructions.

With the door open depress the bar or paddle handle and release, the bolts should remain retracted whilst the door is in this open position. The top bolt should clear the underside of the transom by no less than 3mm. In most cases this will be level with the top of the door. With the door still open activate the trip mechanism, positioned at the top of the door on the closing face, the bolts should throw immediately.

It is important that the catch operates correctly, especially in the case of fire doors and alarmed doors which will otherwise remain ajar or unlocked. If adjustment is necessary remove the screws securing the nylon guide block in place. Take care not to allow it to drop down inside the stile.

Remove the nylon block and lubricate the steel catch until the spring and catch operate freely.

If the bolt position requires height adjustment, turn the bolt head until the correct projection is achieved. Ensure the bolt retracts completely when depressing the panic bar or handle.

Refit the guide block by reverse procedure.

Adjustment to the bottom bolt can be carried out in the same way.

Check the housing to both door stiles for the push bar type or the single housing for the push paddle

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type. The housings can be removed by slackening the 3 No. 15/32" x 1/4" set screws with a 3mm Allen key. The active housing can be removed from the door by sliding out the connecting pin from the actuator pin. This will present the 2 No. shoulder bolts which should be secured firmly. If an outside rim cylinder has also been fitted 2 No. screws should also be visible, check these screws are secure taking care not to over tighten. The operating mechanism can be lubricated with a spray grease through the actuator pin slot and the housing reinstated by reverse procedure.

If faults can not be rectified using the information above contact the supplier for further advice.

Panic Exit Latch

The emergency exit panic latch utilises a push bar which operates a latch. This type is designed for use with hollow doors i.e. aluminium, steel or PVCu. For use with timber doors fixing plates must be fabricated to accept the shoulder bolts supplied. The latch type mechanisms are handed and cannot be altered in the field.

It is important to realize the internal handles are designed to be pushed in an emergency to release the door and although the handles are used to pull the door closed to reset the hardware. They are not intended to be used in high traffic areas where the handles are used to pull doors closed on regular intervals.

If installed correctly the hardware requires little maintenance, however, the following instructions will extend the life of the product if carried out on a regular basis.

Six monthly maintenance

Check that the emergency exit hardware operates and the door can be opened in the correct manner. Ensure the door operates correctly, without binding and carry out routine maintenance as per door manufacturers instructions.

With the door open, depress the bar and release, the latch bolt should retract fully and return to its normal position. Each housing can be removed by slackening the 3 No. 15/32" x 1/4" set screws with a 3mm Allen key. With the crash bar still attached

lift the unit away from the door.

With a light spray grease lubricate the 2 No. return springs and internal components. Do NOT remove the 2 No. pozi head screws at the top of the unit. Check the 2 No. shoulder bolts to each door stile and secure if necessary. If the door is furnished with an outside rim cylinder, check to ensure correct operation and lubricate with a light graphite lubricant. Do not use oil.

Reinstate the housings in reverse procedure and tighten the set screws. Lightly oil the pivots through the sides of each housing and wipe clean. Check the bar is fitted tightly between the housings. Apply a light lubricant to the roller on the lock keep and adjust the keep position if necessary. Check fixings are all tight.

If faults can not be rectified using the information above contact the supplier for further advice.