

**Post Installation  
Maintenance Advice  
(O & M Manual)  
& Care of Finishes**

Polished Chrome

Satin Chrome

Matt Black

Matt Bronze

## MAINTENANCE ADVICE

To ensure the reliable operation of an ironmongery component, it is important that the manufacturer's installation instructions are followed. Furthermore, since a building's hardware will be subject to varying levels of use throughout the working week, it is important that these fittings are routinely inspected to check that they function correctly. They will also need to be maintained and adjusted to counteract the wear and tear of their operational lives in accordance with the manufacturer's recommendation.

Suggested routine maintenance guidelines are detailed in this guide. These should be read in conjunction with the information supplied with the product. Following installation it is important that any fixing/maintenance instructions are retained and passed on to the Building Manager / Maintenance Department for future reference.

**The following guidelines are of the utmost importance with regards to the operation of any fire check items and fire escape hardware. People's lives could be endangered by incorrectly fitted and/or poorly maintained hardware.**

**Regular maintenance is recommended to prolong life of products and ensure they remain operational.**



# HINGES

CARE & MAINTENANCE	
<b>Correct hinge</b>	It is important that the correct hinge is fitted taking into account the door's size, weight and purpose e.g. FD30, FD60, etc.
<b>Hinge alignment</b>	<p>When fitted it is important that all of the hinge knuckles, or more precisely, the hinge pins are vertically aligned on a particular door. This is to ensure that the axis of rotation of the door lies on a common centreline parallel to the edge of the door and frame.</p> <p>Misaligned hinges will distort the rotational axis leading to undesirable stresses on the hinge, their fixing screws, the door and its frame. Consequently both hinge and door performance will be impaired and hinge wear increased. If a door's hinges regularly work themselves loose or they continually squeak, then hinge misalignment should be investigated.</p>
<b>Grease seepage</b>	<p>Newly fitted hinges containing ball bearing races packed with grease may experience a small amount of grease seepage following installation. Any excess grease is expelled from the bearings as it beds in. The grease should be wiped from the hinge knuckle using a cloth moistened with white spirit or suitable degreasant.</p> <p>Self lubricating hinges are available which are effectively maintenance free with regards to lubrication. This is achieved by the use of flanged bushes that have been impregnated with a specially formulated lubricant.</p>

- ✓ CORRECT HINGE USED
- ✓ CHECK ALIGNMENT
- ✓ WIPE EXCESS GREASE OR USE SELF-LUBRICATING HINGES

## LOCKS & LATCHES

CARE & MAINTENANCE	
<b>Correct fitting</b>	The most important factor in obtaining optimum lock performance is correct fitting. The lock should be fitted perpendicular to the edge of the door with its faceplate flush to the edge.
<b>Strike plate positioning</b>	<p>The position of the strike plate is important because it must receive the lock bolts cleanly <b>without any snagging</b>. It is also important that the space behind the strike plate is morticed deep enough to allow free operation of the lock bolts. Typically the gap between door and door frame should be 2-3mm (always confirm with door manufacturer).</p> <p>Routine inspection of locks should ensure that they engage their strike plates correctly, otherwise lock bolt snagging may arise. Causes of snagging include movements in the door and frame due to climatic changes, hinge wear or even the presence of debris in the strike plate mortice. Lock binding is clearly undesirable and could potentially lead to the door jamming closed.</p>
<b>Fixing screw tightness</b>	Fixing screw tightness should also be checked. A small amount of lubricant can be applied to the side and striking face of the latch bolt to facilitate its smooth operation. Excess lubricant should be wiped away to prevent its transfer onto clothing during routine door operation.

The internal mechanisms of key operated three and five lever locks and cylinder lock cases are well greased by the manufacturers and consequently do not require further maintenance.

- ✓ CORRECT FITTING
- ✓ CHECK STRIKE PLATE POSITIONING
- ✓ CHECK FIXING SCREW TIGHTNESS

## CYLINDERS

CARE & MAINTENANCE	
<b>Lubricant</b>	The cylinder keyway should be sparingly lubricated when required with a specialist lock lubricant. The use of standard oil lubricant should be avoided as these comparatively viscous oils can attract and hold dust. This could eventually lead to a clogging of the keyway and/or the cylinder pins.

## LEVER HANDLES

CARE & MAINTENANCE	
<b>Correct fitting</b>	Poorly fitted handles can hamper a lock function by causing the latch bolt to snag. It is therefore important when fitting the handles to ensure that the spindle and lock follower are properly aligned.
<b>Check tightness</b>	Following fitting, the handle fixings should be periodically checked for tightness. This includes any grub screws that hold the spindle securely within the handles. Tight fixings take on additional importance if a door closer is fitted.

## PULL HANDLES

CARE & MAINTENANCE	
<b>Check tightness</b>	Pull handle fixings should be tightened when necessary as loose handles will become progressively more unstable with continued use. They may even be pulled off the door completely if it is opened sharply, as may be the case in a panic situation. As with lever handles, tight fittings take on an additional importance if a door closer is fitted.

## OVERHEAD HYDRAULIC DOOR CLOSERS

CARE & MAINTENANCE	
<b>Correct fitting</b>	It is important that all door closers are fitted accurately, following the manufacturer's instructions and using the template supplied. They should also be correctly adjusted with respect to the closing speed and latching action to ensure that the door closes properly and overcomes any resistance encountered, e.g. as a result of smoke seals or a latch bolt being fitted.
<b>Care in use</b>	Slamming of the door should be avoided as this may leave the door slightly ajar.
<b>Temperature changes</b>	Changes in ambient temperature and humidity can also affect door closer performance as a result of door and frame expansion. These temperature changes may also cause variations in the viscosity of the hydraulic fluid contained within the door closure mechanism.
<b>Adjustment</b>	Consequently the need may arise for door closer speed and latching action to be adjusted. More sophisticated door closers may also have backcheck and delayed action functions which should also be adjusted when required to ensure satisfactory door operation.
<b>Check for leakage</b>	Since hydraulic door closers are factory sealed units they should be periodically inspected for any sign of leakage after fitting.

The **smoothness** of the closing action of the door will be affected if:

- the screws holding the unit to the door and/or frame work loose
- the fixing bolt holding the arm to the mechanism works loose
- the pivot point of the arm is poorly lubricated resulting in unwanted frictional forces

It is therefore important that these areas are addressed during routine door closer maintenance.

### ROUTINE DOOR CLOSER MAINTENANCE:

- ✓ CHECK LOOSE SCREWS
- ✓ CHECK FIXING BOLT
- ✓ CHECK LUBRICATION OF PIVOT
- ✓ CHECK FOR LEAKAGE

## CONCEALED OVERHEAD HYDRAULIC DOOR CLOSERS

CARE & MAINTENANCE	
<b>Adjustment</b>	These units should be adjusted as necessary for closing speed and latching action. The smoothness of travel of the arm along its channel also needs to be checked.
<b>Check for leakage</b>	Since these closers are housed within a cavity in the top of the door, careful inspection around the pivot seal should be carried out to ensure that no hydraulic fluid leakage is occurring from the unit as this will not be as self evident as with a surface mounted mechanism

## FLOOR SPRINGS

CARE & MAINTENANCE	
<b>Correct fitting</b>	When fitting a floor spring it is important that the mechanism is accurately positioned in the floor. This is to ensure that when the unit self centres it is properly aligned with its frame (or mirror image in a double door set). Misalignment may prevent the proper engagement of fire and smoke seals.
<b>Adjustment</b>	Similarly to other hydraulic door closers it may be necessary to adjust the closing speed and latching action controls of the floor spring mechanism.
<b>Remove debris</b>	Any debris that has accumulated in the vicinity of the spindle should also be periodically removed.
<b>Check for leakage</b>	Signs of hydraulic fluid loss should be looked for around the pivot seal and in the bottom of the floor spring housing box.
<b>Check bolt tightness</b>	The bolts holding the mechanism down and the screws securing the top centre and bottom strap should all be tight.
<b>Inspect for wear</b>	The top centre also needs to be carefully inspected for any signs of wear.

## ELECTRO-MAGNETIC DOOR CLOSERS, FLOOR SPRINGS & HOLD OPEN DEVICES

CARE & MAINTENANCE	
<b>Conduct weekly checks</b>	The closing action of all electromagnetic hold open devices should be regularly checked in conjunction with the activating alarm or sensor system to ensure correct operation and that no residual magnetic fields impede the onset of the door closing. It is recommended that such checks are carried out on a weekly basis

These door closers and floor springs should also be adjusted as described in the above table.

## PANIC HARDWARE

For safety it is essential that all fire escape and panic hardware is fully functioning at all times. Regular inspection and servicing of these devices is therefore very important.

CARE & MAINTENANCE	
<b>Adjustment</b>	Ease of use must be ensured at all times with any necessary adjustments being made to compensate for door and frame movement.
<b>Inspect for wear</b>	Components should be inspected for signs of wear and tear, misuse or vandalism.
<b>Lubrication</b>	Moving parts should be lubricated with a light machine oil when required.
<b>Tighten screws</b>	All fixings screws need to be securely tightened.
<b>Check bars</b>	The operating bars and rods should be checked for straightness and floor sockets should be cleaned out if they have accumulated any debris.

## CARE OF FINISHES

Our protective antimicrobial coatings should still form part of a regular cleaning programme to remove built up dirt and grime. For touch points used on a regular basis we recommend using quality branded hand and surface sanitising wipes, following the manufacturers instructions.

External, exposed or non-touch point products should be cleaned periodically with a soft cloth and warm soapy water. When clean wipe down with a separate dry cloth. Applying a quality automotive wax product has been found to prolong the finish.

