

Maintenance Catalogue

Hinges

Apply lubricant if hinges show signs of restricted movement or make any noise.

Hinges should not require maintenance provided they are lubricated during installation.



Handles

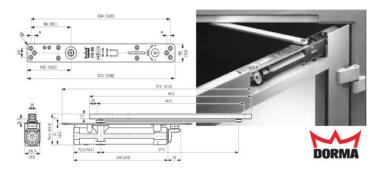
If handles begin to loosen, tighten the set screws.



Door Closers

Door closers are internally lubricated and do not require additional maintenance

Dorma door closers must be adjusted to desired closing speed. Always ensure that the closer is free of dirt, dust, and debris.



Automatic door bottom

To adjust the automatic door bottom, use a screwdriver or allen wrench to turn the red plunger at the hinge side of the door. Adjust it so that the door bottom seals positively but without excessive



pressure and retracts once the door begins to open. The automatic door bottom can project down a maximum of 3/8".

Do not drill or screw into the door 3" from bottom of the door. If you must, ensure screws do not pierce or damage the automatic door bottom. Mounting any hardware such as kick plates into the automatic door bottom assembly may damage the mechanical movement.

Do not rest the door standing upright or slide the door along the bottom. This could damage the seal.

Locks

Mechanical

Shield Doors use the Mottura 85 series mechanical multi-point lock. Malfunctioning of the lock itself is extremely rare and usually a result of dust accumulating in or around the lock. This is particularly prevalent on construction sites. A simple way to check the functioning of a lock is to lock and unlock with the door in the



open position (not seated in the frame). If it functions normally when open but encounters resistance when closed, it is likely do to misalignment or an obstruction in the frame.

Electromechanical

Shield also offers the FIAM X1R electromechanical lock. Troubleshooting a maintenance issue should be attempted using both the key and electronic access

control (fob, keypad, biometrics, etc.). If the lock works normally with the electronic access control, then the problem is likely with the cylinder or defender, not the lock.

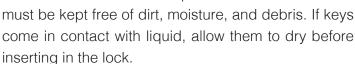
If the electronics aren't working, it may be necessary to remove the lock from the door and check the electrical connections at the back of the lock. Also ensure that there is adequate voltage reaching the door.

For issues related to programming the lock, please see the programming guide.

Wiring condition in the transfer hinge should be examined annually. If any wear is present, apply electrical tape.

Keys and Cylinders

Mul-T-Lock keys must be kept clean and retain a straight blade. Do not use keys for anything other than their intended purpose. Transponders, electronic keys, and other electronic components



In a master key system, keys must be properly marked for their intended locks and only used on those locks.

Cylinders must be installed correctly to avoid unnecessary friction. Do not paint cylinders or allow them to come in contact with other chemicals. Consult the cylinder and defender installation instructions for more information.

Cylinders must be kept free of dirt and dust. If installing in a new construction site, painters tape should be used to cover them.

Defenders

The most common problem with defenders is dirt and dust accumulating inside the defender, making it almost impossible to turn the key. A simple way of checking this is locking and unlocking the



door from the inside using the thumb turn. If the door operates normally from the inside but you are unable to lock or unlock using the key, then the defender should be removed and lubricated (see defender installation instructions for Mottura and FIAM locks).

Alignment

It's common for doors to sag after a few years of use. Shield recommends that doors be raised slightly above center line during installation so as to mitigate any sagging over time. However, should sagging occur and effect the alignment of the bolts into the frame, the door should be raised using the adjustable hinges to correct this issue. You can add lubricant freely around the tip of a bolt if locking is rough.

Clean bolt holes regularly, especially in the door step. Debris can cause damage.

