

Safety by Engineering
Supply+

Shutter Installation and Maintenance Guide



Maintenance of Shutters

The following is intended as a guide to the maintenance of AS shutters either as part of routine maintenance or in the unlikely case of problems being encountered.

General

The shutter should be periodically cleaned in accordance with the recommendations set out below. Inspection and maintenance can be carried out with the shutter in place. First inspect the shutter and check its operation. If the unit operates freely then no further action is necessary. If the operation of the unit is not free then the guide channels should be cleaned and (except in the case of PTFE lined channels) a dry silicon lubricant should be applied. Guide wheels where fitted to the latch lath should be cleaned and lubricated with dry silicon.

Latches

Bar Latches: should move freely and positively spring to the latched position. If the operation is stiff clean and lubricate the pivots with dry silicon lubricant.

Extruded Latches: should move freely and positively spring to the latched position. If the operation is stiff clean and lubricate the pivot with dry silicon lubricant working up and under the latch with the moving member pulled out.

Push Button Latch: should move freely and positively spring to the latched position. If the operation is stiff, working on the inside of the shutter, clean and lubricate the rod guides with dry silicon lubricant. If the operation continues to be stiff it will be necessary to strip down the mechanism and clean and lubricate the internal workings.

Cleaning

The use of high pressure washers to clean the guide channels is not recommended in the case of PTFE lined guide channels as the water pressure may have negative affects on the bonding of the lining on these units, otherwise pressure washers may be used.

Lubrication

The storage roller end caps should be lubricated where they run on the axle as required.

Latches should be lubricated as described above.

Guide channels (not PTFE lined ones) can be lubricated with dry silicon spray.

DO NOT USE GREASE OR OIL as this will attract road dirt and result in poor operation and high wear.

Spare parts lists

Exploded parts list are available. Please contact us on 01480 832200 or visit our website: www.supplyplus.com.

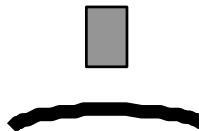
Shutter Wear Strip Renewal

The following is intended as a guide to the replacement of the wear strips fitted to the guide channels and bends on pump bay shutters. The original wear strips were a grey/black plastic strip and we are now using stainless steel strip for its better friction and hard wearing properties.

On installations with exposed bends it should not be necessary to remove the shutter or guide channels. On other types of installation this may be necessary.

Procedure

1. Open the shutter as far as it will go.
2. If roll pins are fitted holding the existing strip in position, these must be removed. They can be driven out using a pop rivet stem as a drift if a proper drift of the right size is not available.
3. Break the adhesive bond by using a screwdriver or chisel along the entire length of the guide channel and bend.
4. Using a suitable pair of pliers pull the strip out of the housing.
5. Uncoil the replacement strip and straighten. The strip can then be cut to a single length approximately 10mm shorter than that required, ensuring that the ends of the strip are square
6. The stainless strip has a slight transverse bow and the shutter guides should run on the convex Side



7. The convex side of the ends of the strip should be chamfered using a file and then gently bowed away from the chamfer.
8. With the shutter fully open slide the strip along the horizontal channel under the shutter guides. Do not at this stage try to push the strip into the housing slot but run it along side until the strip contacts the channel ramp.



9. Gently tap the strip into the housing slot so that the strip is proud of the channel edge by about 3 to 4mm. Continue this down the strip forming it around the channel bend and stop just below the bend.

10. Any dressing of the wear strip should be carried out at this stage pulling it out of the housing slot if necessary.
11. Using Loctite 326 adhesive apply a bead to the underside of the strip overlap along the engaged length. Next spray the Loctite activator over the adhesive and then tap the strip into position.
12. Repeat steps 8, 9 and 10 for the rest of the strip.
13. Clean any excess adhesive from the channels.
14. Lubricate the guide channels using a dry silicon spray lubricant.
15. It should not be necessary to fit roll pins but these may be fitted if desired.

The installation is now complete.

Future shutter removal can be achieved by removing the guide channel fasteners holding the vertical section, and then springing out the bottom end of the guide channels so that the shutter can be slid out.

If we can be of further assistance please contact us on 01480 832200 or visit our website: www.supplyplus.com.