



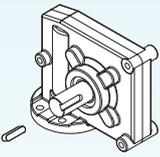
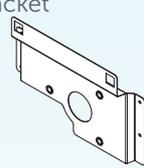
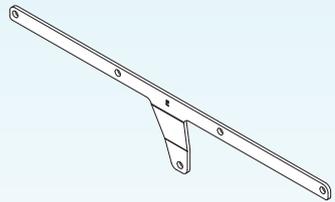
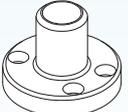
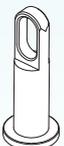
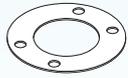
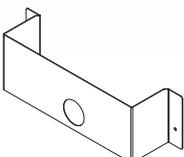
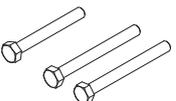
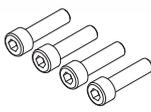
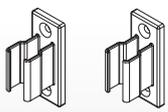
How To.

INSTALLATION GUIDE

MANUAL LOUVRE OPERATION KIT

This kit is to be used in conjunction with the Stratco Sunroof and Stratco Allure™ louvre roof system and replaces the electronic actuator with a manual hand crank option.

COMPONENTS

<p>Gearbox & Key</p> 	<p>Gearbox Mounting Bracket</p> 	<p>Link Arm</p> 	<p>Drive Arm</p> 	
<p>Eyelet Locating Flange</p> 	<p>Eyelet</p> 	<p>Shoulder Washer</p> 	<p>Shaft Coupling</p> 	<p>Gearbox Gasket</p> 
<p>Gearbox Cover</p> 	<p>M6 Bolts 1x 50mm 2x 60mm</p> 	<p>M8 Socket Screws 4x 30mm</p> 	<p>Crank Handle</p> 	
<p>Washer 3x</p> 	<p>Spring Washer 3x</p> 	<p>Nylon Washer</p> 	<p>R-Clip</p> 	<p>Crank Handle Clip 2x</p> 
<p>12x20mm Hex Head Self-Drilling Screw 6x</p> 	<p>M4x5mm Grub Screw</p> 			

MANUAL LOUVRE OPERATION KIT

INSTALLATION GUIDE

TOOLS REQUIRED

- Drill and Hex-head adaptor
- Ø40mm Metal Hole Saw
- Ø3mm & Ø9mm Drill Bit
- 8mm & 10mm Socket/Spanner
- 2mm, 3mm & 5mm Allen Key
- Pen/Marker
- Rubber Mallet
- Silicone & Caulking Gun

SAFETY EQUIPMENT REQUIRED

- Safety Glasses
- Gloves

MOUNTING BRACKET INSTALLATION

Note: This step is to be carried out before louvres are installed.

The gearbox mounting bracket is to be positioned a minimum of two louvres from the end of the Sunroof or Allure unit.

Place the bracket over the square holes and insert the Louvre End Cap Bushes (Figure 1.0). Tap the bushes in with a mallet until the Gearbox Mounting Bracket is flush with the louvre mounting extrusion.

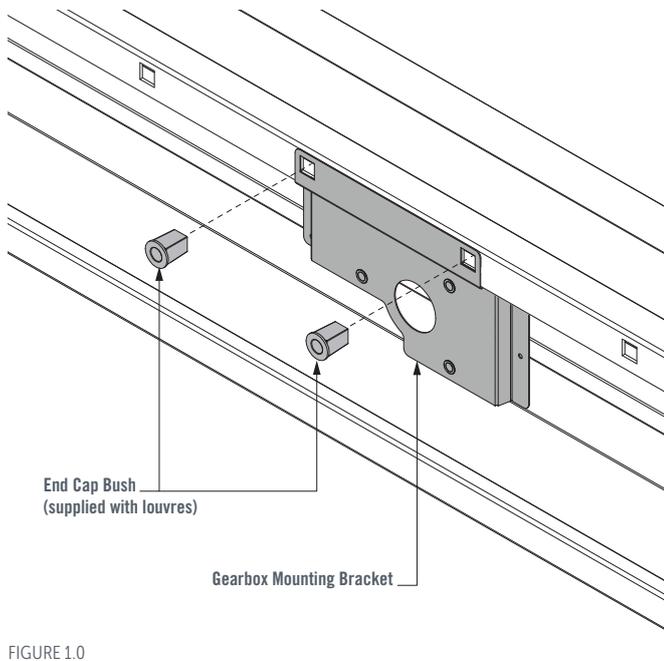


FIGURE 1.0

Fit the Gearbox to the Gearbox Mounting Bracket using the three M6 bolts (Figure 1.1). Only tighten bolts finger-tight.

Note: Refer to the diagram for where to use specific bolt lengths (Figure 1.1).

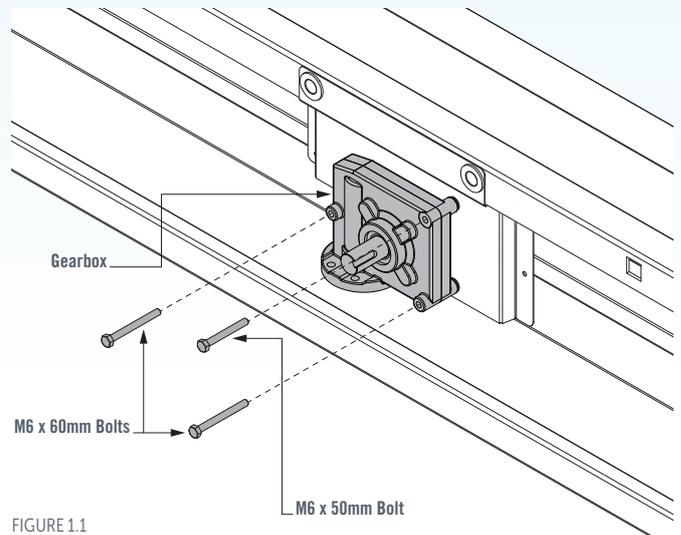


FIGURE 1.1

Use the Gearbox as a template to mark the positions for the two front eyelet mounting holes. Mark around the base flange of the Gearbox to help with the hole positioning in the next step (Figure 1.2).

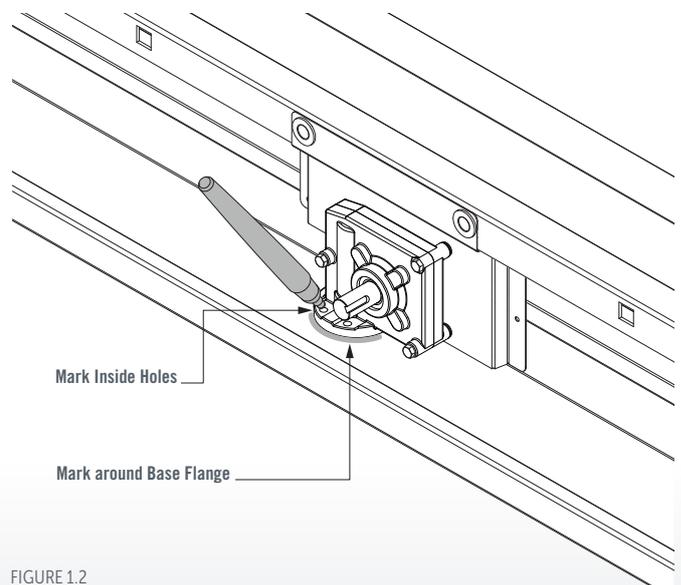


FIGURE 1.2

Remove the gearbox from the mounting bracket and use the Rubber Gasket to ensure the hole markings are in the correct position and accurately mark out the two holes (Figure 1.3).

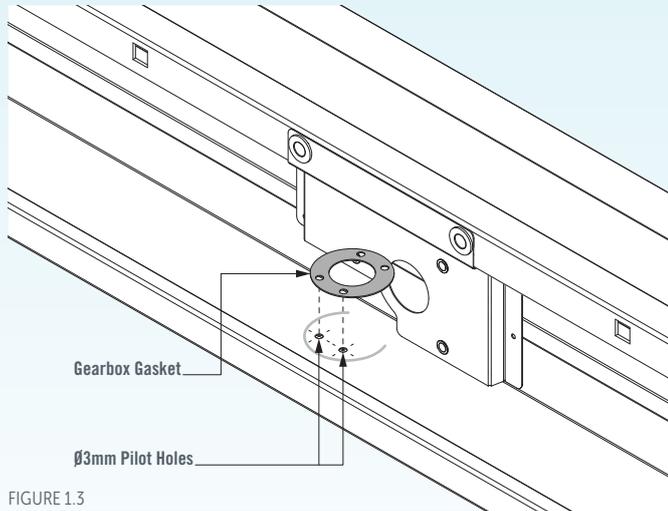


FIGURE 1.3

Carefully drill pilot holes through the gutter from above using a Ø3mm drill bit.

Use the rubber gasket again to mark the remaining holes from the underside of the gutter. Mark a cross to find the centre of the large middle hole (Figure 1.4).

Drill the three remaining pilot holes with a Ø3mm drill bit.

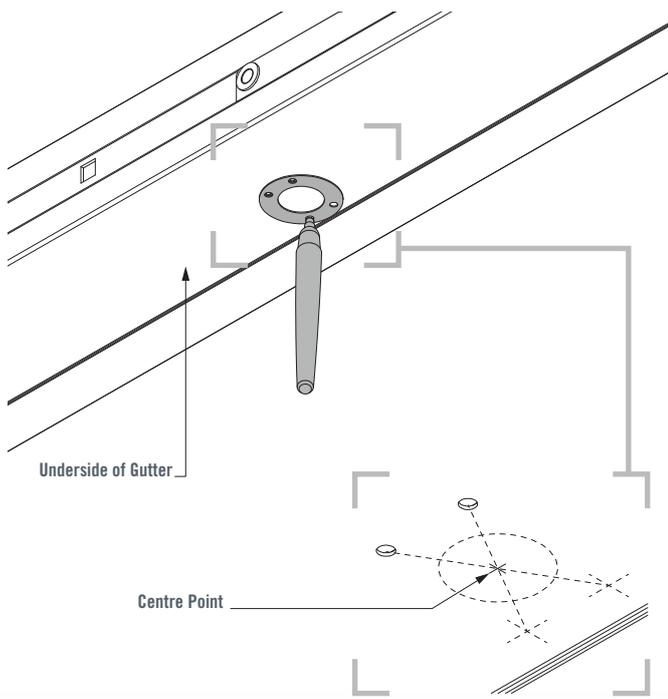


FIGURE 1.4

Carefully drill the four outer holes with a Ø9mm drill bit, and the large inner hole with a Ø40mm metal hole saw (Figure 1.5).

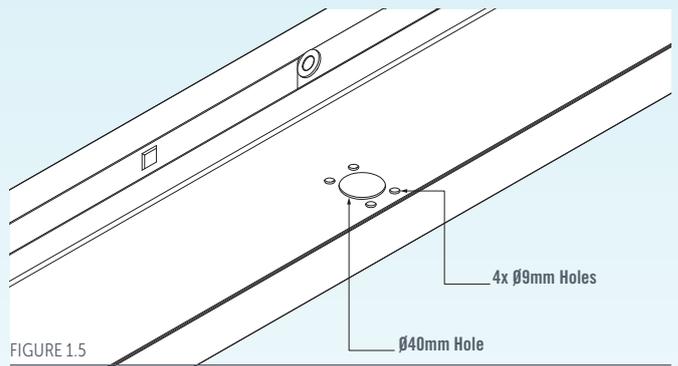


FIGURE 1.5

Remove any burrs using a file and brush out any swarf in the gutter to avoid corrosion.

Place the Gearbox Gasket inside the gutter and over the holes, then align the Gearbox with the holes drilled in the gutter and the bolt holes in the Gearbox Mounting Bracket (Figure 1.6).

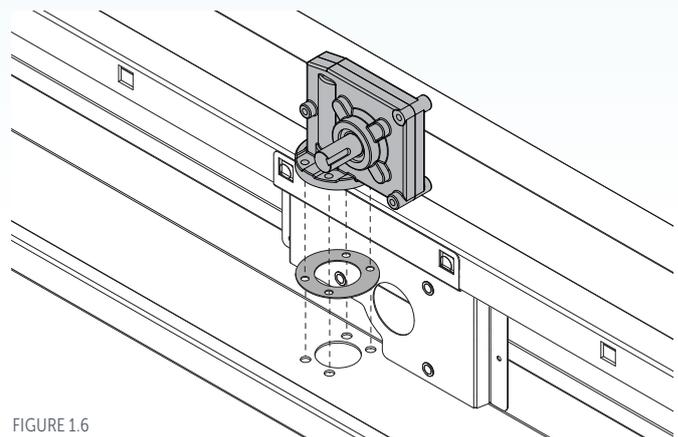


FIGURE 1.6

Fit together the Eyelet Assembly by sliding the Eyelet into the Shoulder Washer, and then the Shoulder Washer into the Eyelet Locating Flange. Ensure that the Shoulder Washer is fully seated in the Locating Flange. The Gearbox Coupling will fit onto the D-Shaft on the Eyelet (Figure 1.7).

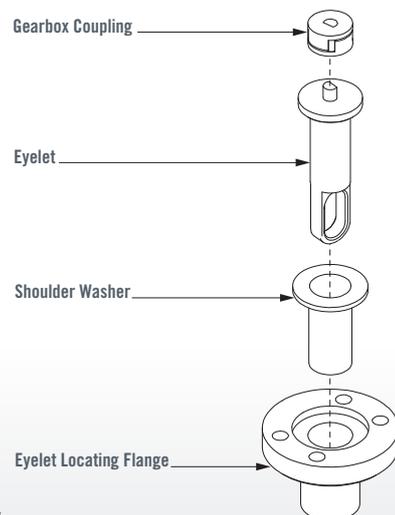


FIGURE 1.7

MANUAL LOUVRE OPERATION KIT - INSTALLATION GUIDE

Apply a small amount of silicone to the Gearbox bolt holes from underneath to help create a water tight seal (Figure 1.8).

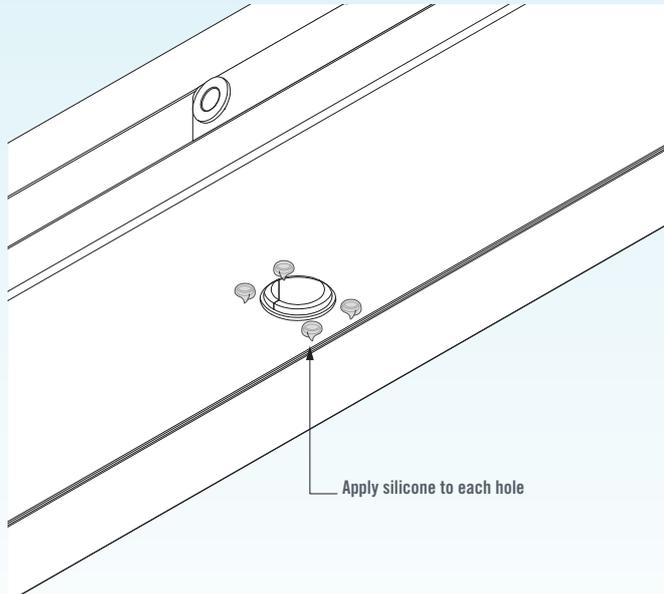


FIGURE 1.8

Attach the Eyelet assembly to the Gearbox from the underside of the gutter using four M8 x 30mm Socket Screws (Figure 1.9). Do not fully tighten the Socket Screws yet to allow for alignment of the Gearbox to the Gearbox Mounting Bracket.

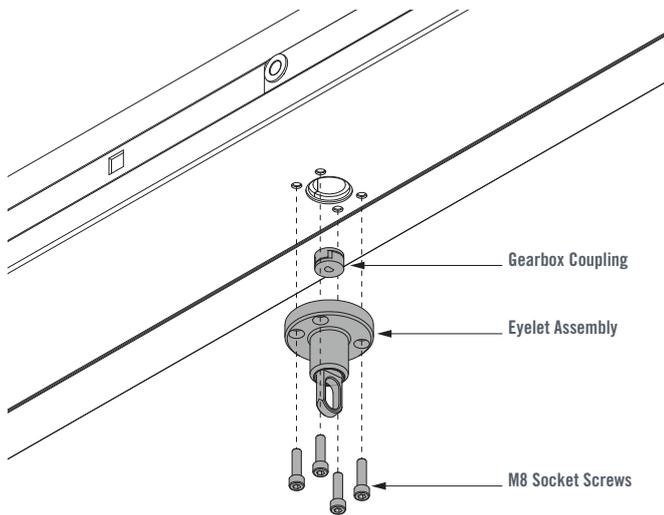


FIGURE 1.9

Re-fit the Gearbox to the Gearbox Mounting Bracket using the M6 Bolts with Spring Washer and Flat Washer on each bolt (Figure 1.10). Tighten the M6 bolts firmly, ensuring that the spring washer is compressed.

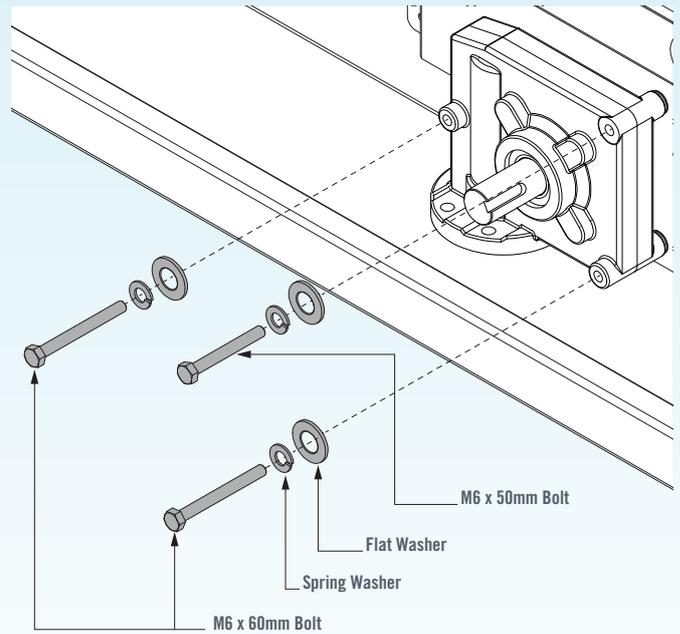


FIGURE 1.10

Firmly tighten the M8 Socket Screws in the Gearbox Locating Flange to ensure the Gearbox Gasket creates a water-tight seal.

Refer back to the Stratco Sunroof Installation Guide or Stratco Allure™ Installation Guide for "Louvre Installation", "Preparing Link Rods" and "Link-Pin Installation" before completing the Drive Arm Installation.

DRIVE ARM INSTALLATION

Note: This step is carried out after the Louvres and Link Rods have been installed as per the Stratco Sunroof Installation Guide or Allure™ Install Guide.

**Louvres are not shown in some diagrams for clarity.*

Align the holes in the drive arm with the link rod and the louvre end cap holes. Insert a Bush through the Drive Arm and Link Rod and into the first Louvre End Cap (Figure 2.0).

Insert another Bush into the back of the end cap and secure with an M5 shoulder bolt and lock-nut (Figure 2.0). The shoulder bolt head should be recessed into the back of the end cap so that it is not visible. The M5 lock-nut will be located on the drive arm side (Figure 2.0).

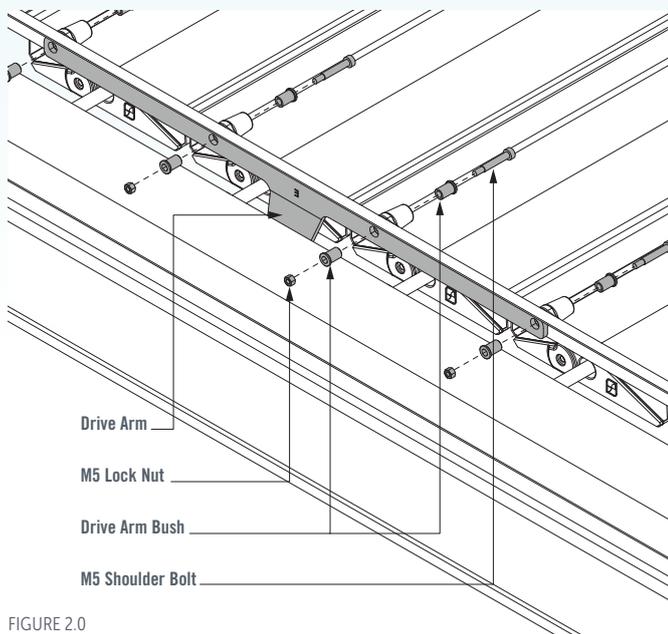


FIGURE 2.0

Place the Link Arm on the Gearbox drive shaft and insert the Link Arm Key into the keyway so that the drive shaft engages with the Link Arm (Figure 2.1).

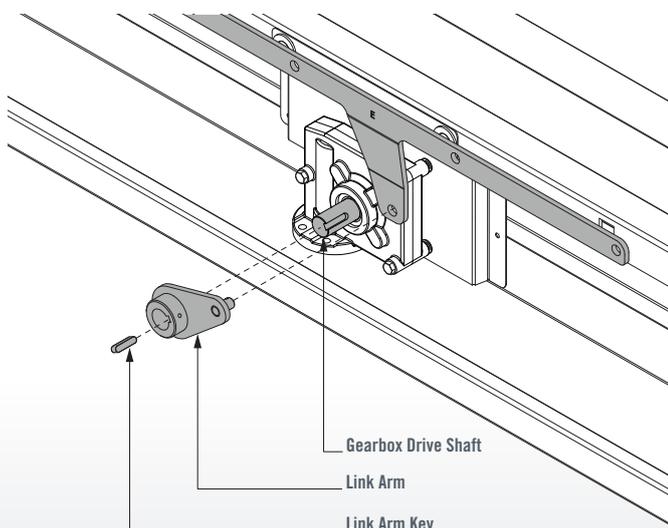


FIGURE 2.1 *LOUVRES NOT SHOWN FOR CLARITY

Place the Nylon Washer on the Link Arm pivot and rotate the eyelet by hand to align the Link Arm pivot with the hole in the Drive Arm (Figure 2.2).

When the Link Arm pivot aligns with the hole in the Drive Arm, push the Link Arm so that the pivot is all the way in the hole and insert the R-clip to lock it in place (Figure 2.2).

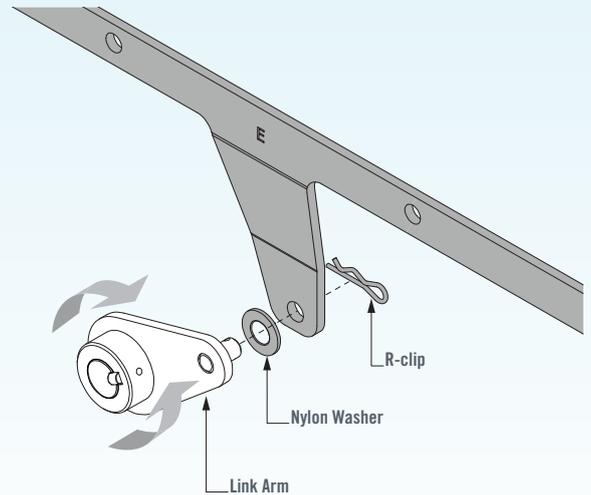


FIGURE 2.2

Insert the Crank Handle into the Eyelet and open and close the louvres to pull the Link Arm into alignment. Tighten the grub screw on the Link Arm using a 2mm allen key (Figure 2.3).

Fix the Gearbox Mounting Bracket to the patio frame using four 12x20mm self drilling screws into the pilot holes (Figure 2.3).

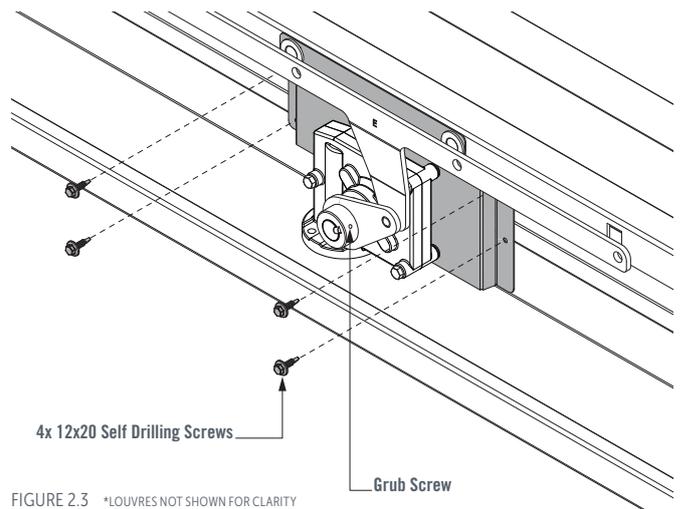


FIGURE 2.3 *LOUVRES NOT SHOWN FOR CLARITY

Position the Gearbox Cover Flashing over the Gearbox so that the Link Arm shaft collar protrudes through the hole in the flashing. Ensure that the Gearbox Cover Flashing does not touch the Link Arm and is evenly aligned and horizontal. Fix the Gearbox Cover Flashing to the frame using two 12x20mm self-drilling screws (Figure 2.4).

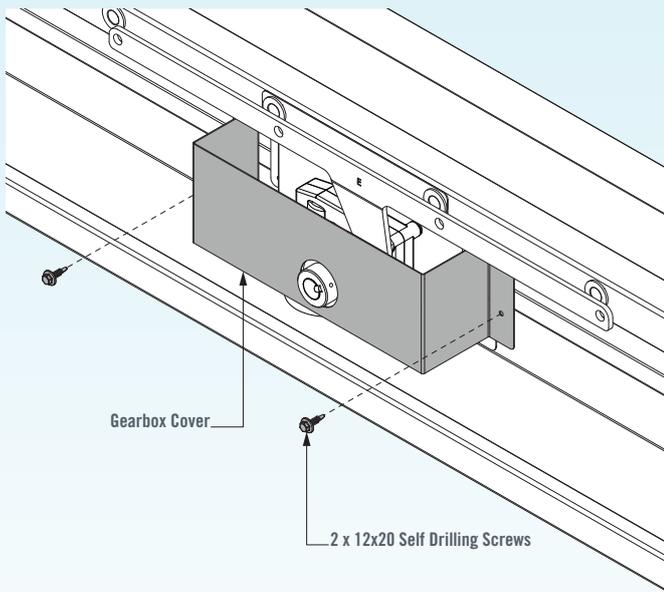


FIGURE 2.4 *LOUVRES NOT SHOWN FOR CLARITY

NOTE: After completing the installation, thoroughly clean out any metal shavings from the gutter to avoid corrosion.

OPERATING THE LOUVRES

Angle the Crank Handle and insert the hook of the Crank Handle into the Eyelet. Gently crank the handle to open the Louvres. The Louvres will stop turning when they reach their fully-open or fully-closed position.

Do not force the handle past fully-open, or fully-closed as damage may occur.

CRANK HANDLE CLIP INSTALLATION

The Crank Handle Clips are used to store the Crank Handle when not in use. Find a suitable, convenient position on a column or a wall. Align the two clips vertically at a spacing of 800mm fix using two countersunk rivets or screws (not supplied) depending on the surface being fixed to (Figure 3.0).

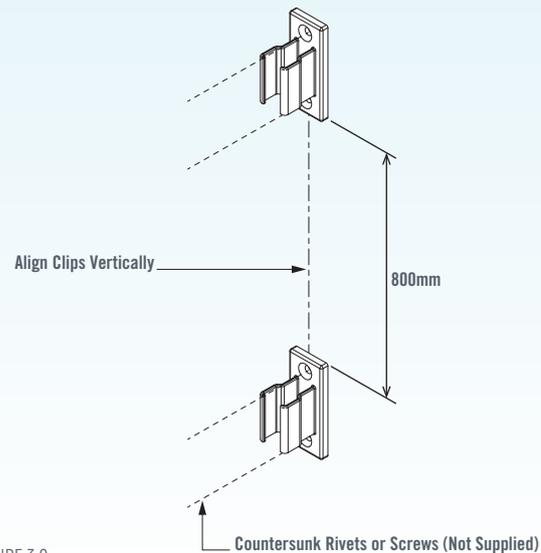


FIGURE 3.0

MAINTENANCE

Regular maintenance is essential to maintain the good looks of all Stratco steel and aluminium products and to ensure you receive the maximum lifespan possible. Washing with clean water must be frequent enough to prevent the accumulation of dust, salts, and pollutants that may reduce the life of the product. Stratco steel and aluminium products that are regularly washed by rain require no additional maintenance. No Stratco steel or aluminium structure or materials are recommended for use over, or in close proximity, to swimming pools or spas. No material that retains water (such as dirt or paving sand) should be placed against the columns. Care must be taken when determining the location of Stratco steel and aluminium products so that they are not placed in close contact with sources of pollution or environmental factors that could affect the life of the steel or aluminium. Refer to the 'Selection, Use and Maintenance' brochure for more information.



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