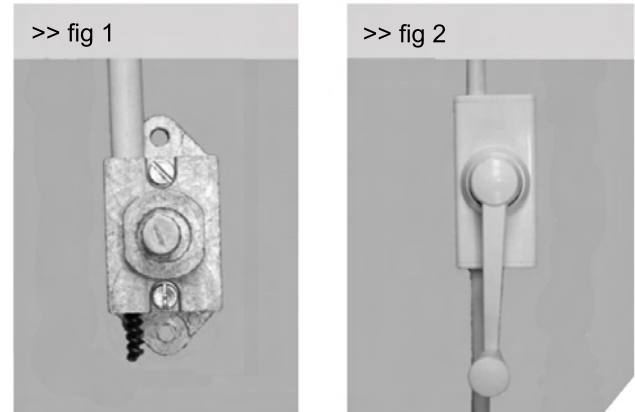


Highline Fitting Instructions

T300 Mini Operator

1. Decide upon operator position, normally between 1200-1500mm FFL, allowing at least 230mm from centre of operator to any obstructions for hand clearance.
2. Unscrew collar from front of the operator and lift off cover, gearbox and square conduit. Place steel backplate in position on wall or framework and mark fixing holes. Remove plate and drill the 2 holes, fit rawl plugs provided, fix backplate and gearbox to wall with the 2 No. 37mm screws or use suitable alternative.
3. Unfasten the 2 machine screws on the gearbox and lift off the top section. Locate the pre-prepared conduit into the collared recess in the gearbox base. Fit to right hand port for "pull" to close or left hand port for "push" to close action of cable on clockwise rotation of the handle.
4. Refit the top half of the gearbox over the conduit and fasten the 2 fixing screws. Ensure that the groove in the conduit is located in the collar of the gearbox.
5. Complete installation of the conduit and window openers.
6. Feed the end of the cable into the bottom port of the gearbox directly below the conduit run. Place the handle on the spindle and wind the cable through the system until it appears out of the last chain opener. Wind out to show approx 280mm (for T100) or 410mm (for T150) of cable.
7. Cut the cable directly below the gearbox. Wind down 100mm or so, file the end clean and screw on the brass square nut (T720) – See Figure 1. Place cable and nut on anvil then hit on top face the nut with a centre punch and hammer to anchor the nut to the cable.
8. A length of "spent travel conduit must now be fitted below the operator (See Figure 2). Disassemble the gearbox and locate the pre-prepared "spent travel" conduit into the vacant collar below conduit run. Re-assemble the gearbox, ensuring that the groove in the conduit is located in collar of gearbox.
9. Replace the cover and fasten with collar. 10. Replace handle. Operate the system until windows are close tightly. Remove handle from spindle and refit in vertical position (Figure 2). Fasten to spindle with threaded pin.

To prevent misuse of windows the handle does not have to be secured with the threaded pin and can be stored in a secure location for authorised use only.



Top Tips

The Spring Stops T700 (supplied separately) can be used to prevent the operator from "over-winding" causing the inner cable to disappear into the conduit.

The Brass Nut T720 supplied with the Mini Operator also prevents this "over-winding" effect.

Ensure the inner cable ends are de-burred allowing the spring stops and brass nuts to be positioned onto the end of the cable (turn anti-clockwise onto end of cable).

