

HOW TO FIT THE NEW LONG TRIX CONVEYOR BELT

The original TRIX belts were made from "hospital rubber" sheeting, which was reinforced with a cotton weave. It was consequently not elastic. The TTRCA replacement from 2013 is made from red silicone rubber sheet. This is supplied ready joined into a loop because special adhesive is required.

FITTING THE BELT

The silicone rubber belt is supplied as a loop. It cannot therefore be threaded round the rollers without some dismantling. Have a container handy to avoid losing small parts during disassembly.

1. Release the belt tensioning springs by unhooking them from the tension roller spindle.
2. Remove the two short 8BA hexagon headed screws from both sides of the steel plate that forms the bottom of the coal delivery chute and remove it.
3. *On one side of the gantry only*, remove the six 8 BA hexagon headed bolts that secure the guide rollers. (One of these also secures the tension spring).
4. Undo the two 8BA cheese headed screws under the gantry and remove the bracket that locates onto the dowel peg at the front of the tower.

5. Remove the tension roller from its slot and separate the two halves of the gantry by turning the freed roller side, pivoting on the drive roller spindle.

N.B: The drive roller can be removed by loosening the grub screw that holds it to the shaft. However the shaft is also retained by a small spring ring that is awkward to remove. The belt can be replaced with the drive roller in-situ anyway.

6. **Note the route for re-threading** and remove the old belt. While it is off, remove all the rollers except the drive roller and degrease them and their spindles with white spirit. Apply a *trace* of light oil before reassembling. Excess oil may damage the belt rubber and cause slipping.

7. Thread the new belt round all the rollers (over the tension roller) *noting the direction of the overlapped join* as shown below. This is important to avoid the long belt catching on the elevator belt. The new silicone rubber belt is elastic and should already be under tension.

8. Reposition the side of the gantry and replace all the hexagon bolts

9. Replace the dowel locating bracket and steel plate. The tension springs may well not be needed and can be replaced but left unhooked from the drive roller spindle.

General Hints:

Broken tension springs can be replaced with the rheostat spring from a scrap post-war TTR controller. One side of the spring will need shortening and bending to hook over the side rail of the conveyor. This requires care as it is easy to snap the spring while re-shaping it. *If they are being used, release tension springs when the conveyor is not in operation.*

