

SHIFTING BANDS

Note that there is a [video](#) on the CD showing how to change the bands.

A. THE LONG (GREEN) BANDS IN THE CARD-PATH.

1. Cut a Ø 3 mms "Habasit" band to 418 mms length. (The original bands are very long lasting and, you can mend a broken band in the way described below if it would burst. i.e. there is no need for you to keep spares of the green bands.)
2. Melt both ends simultaneously with a flat soldering iron. (In emergency you can heat a screwdriver.)
3. Push the melted ends together and hold for 10 seconds.
4. Remove (cut and/or grind) any surplus material to make the joint smooth.

B. THE SHORT (FIRST) BANDS

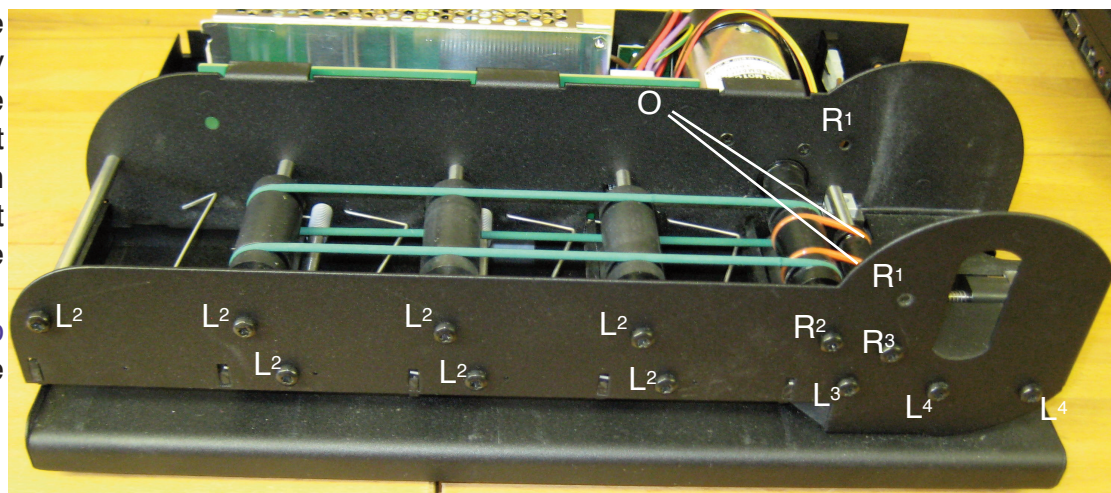
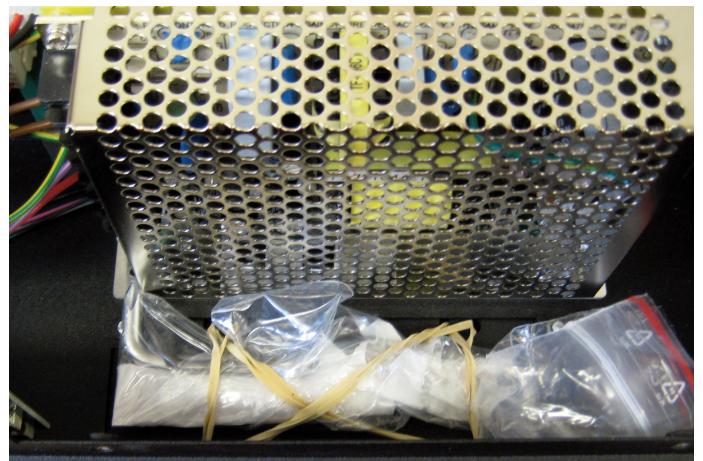
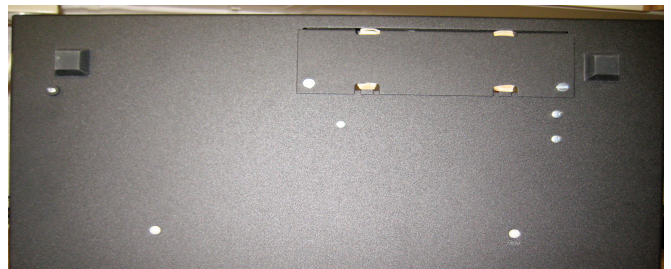
You will need a Torx 20 and at least one spare band. You will find everything you need in the tool compartment if you have a Mk 4.5-4.6.

In emergency you can use "25x2,5 mms, 80+", O-rings, but note that standard O-rings will lose their form and should be replaced with original (spare) bands a.s.a.p. (or you might have read-errors)

The bands are in principle O-rings, which implies that you have to remove the hood (the main cover) and the gear cover.

1. Remove the gear-cover (2 screws marked R¹ in illustration below).
2. Remove the screw R² holding the driven shaft (the bigger roller that the O-rings move about).
3. Hold the smaller shaft that the orange bands move about with a pair of pliers, while removing the screw R³.

3b. Take the opportunity to dismantle the first, small roller, i.e. remove the roller (from the shaft). Clean the interior of the roller and the shaft. Then lubricate the shaft with half a drop of ATF fluid, i.e. Automatic Transmission Fluid (see [video](#)). Do NOT use oil of any kind! Mount the roller and remove any excess of ATF from the roller and its shaft. (If dirt is allowed to build up on this shaft, or if you let it run dry, you will have read errors as a result.) There is a [video-clip](#) showing how this can be done



4. Insert (an empty) board in the machine.

5. Make the screws marked "L" **loose**, i.e. do **NOT** un-screw them entirely.

L² = To be loosened (turned) 2 revolutions

L³ = Ditto 3 revolutions

L⁴ = Ditto 4 revolutions

6. Press the front panel towards you to allow the green band to pass the end of the driven shaft, see illustration

7. Continue to press the front panel towards you while forcing the orange band(s) to enter onto the driven shaft, see illustration. (If one O-ring bursts after a short while, you could leave the other on. But if the remaining O-ring is worn it should be replaced as it is no good to combine a new O-ring with a worn.)

8. Press the front panel towards you while bringing the first (small) roller back into its rest position on top of the reader house. This can be tricky. If you find it too difficult you can push the reader house somewhat downwards. (But please remember to bring it back to its uppermost position afterwards).

9. Mount the screw (L³) holding the first roller. Hold it firmly with a pair of pliers while tightening the screw L³.

10. Tighten all screws on the front panel.

11. Mount the gear-cover and make sure that its lower part is positioned in line with the reader's vertical edge. Do not forget that there is a screw holding the gear cover on the inside of the card path.