

input is adjusted by placing the fuse into the appropriate holder, the position of the fuse being visible through a window in the bottom of the machine. On the TK17L-TK23L the mains input is adjusted by moving the voltage selector links to the appropriate positions.

The full-wave bridge metal rectifier MR1 provides the HT supply and is fed from one part of the secondary winding of the mains transformer through the HT fuse (mounted adjacent to the mains fuse).

2.4 MOTOR

The balanced two-pole motor is fitted with a cooling fan and pulley (no fan on TK23L), secured to the shaft by means of a torsion spring. The centre of the belt groove must be exactly 14.5 mm above the top of the chassis.

2.5 DUAL TRACK PLAYBACK TK17L-TK23L

When D is selected on the track switch, tracks 1-3 or tracks 2-4 may be replayed together. Under these conditions the heads are connected in the following manner: one side of the lower track head 3-4 is taken to the chassis by contacts 4.23-4.1 and the other side by switch contacts 4.17-4.19 to the upper track head 1-2. The other side of the upper track head is fed through contacts 4.13-4.15 and contacts 1.23-1.22 to the grid of the EF86. From here on the circuit is the same as for normal playback.

SECTION 3. DISMANTLING FOR SERVICING

3.1 ACCESS TO COMPONENTS

All major components are readily accessible by removing the bottom cover of the tape recorder (four screws in rubber feet) and the top deck (four screws).

When replacing the top deck mounting screws ensure that the shortest of the four screws is located in the front right-hand position, i.e. closest to the start key. To gain access to the printed circuit panel first remove the bottom screen, by loosening the four mounting screws which hold the metal screen to the printed circuit panel, and slide the screen downwards. The screen may now be lifted off.

Next, remove the four screws completely, taking care not to lose any of the spacers. The printed circuit panel can now be swung outwards—it is still retained by the connecting leads. In this position, however, the recorders are fully operational and when standing on one side all electronic functions may be checked.

The record/playback switch is operated by the record/playback button.

The swivel bracket of the recording button engages in a large eyelet on the end of the slider of the record/playback switch and when re-assembling the printed circuit panel and replacing on its mounting pillars, care must be taken that the recording button swivel bracket engages correctly in the slider. An opening is provided in the printed circuit panel to observe the relative positions.

3.2 REPLACEMENT OF DRIVE BELTS

To replace the drive belts proceed as follows:

1. Disconnect mains lead.
2. Remove top deck.
3. Unclip EM84 (where applicable) from its holding bracket together with valve base.
4. Remove brass dust cover from drive spindle.
5. Remove indicator drive belt from left-hand clutch.
6. Remove the three countersunk fixing screws on the sound channel plate.
7. Remove complete sound channel, the top deck fixing bracket situated under the right-hand side of sound channel and then lift the whole assembly forward on its leads.
8. The clutch drive belt and the flywheel drive belt may now be replaced.
9. Re-assemble in reverse order, making sure that the right-hand top deck fixing bracket is positioned properly with threaded hole uppermost and held by the longest of the three countersunk screws.