SERVICE HINTS

Ensure that leads are dressed clear of the mechanism, drive belts, etc. Check for broken, stretched or worn drive belts.

Ensure that drive surfaces (i.e. Pinch Roller, Flywheel shaft, Flywheel rim, Idler wheels, Drive Belts, etc.) are free of dirt and grease. They may be cleaned by careful use of "cotton buds" moistened with methylated spirits. Take care to avoid damage to other parts of the equipment, particularly decorative surfaces, which are susceptible to damage from methylated spirits. Screws should be tight, and sealed into place with Netilok glue (available from Kriesler spare parts stores).

DRIVE TORQUE

The following torque readings should be available

In Play Mode	30-70 gm/cm at Take-up Reel
In Fast Forward mode	70-160 gm/cm at Take-up Reel
In Rewind mode	70-160 gm/cm at Supply Reel

If these figures are not met, check the appropriate drive sequence, and service or replace components as required. Suitable torque meters (such as Philips SRK-CT 811/CTM, designed for the purpose) are available.

SOME POSSIBLE FAULTS AND THEIR CAUSES

Cassete Hatch Jams.

1 Deck assembly loose, or misaligned in cabinet. N.B. When tightening mounting screws, ensure that the deck is centred in its opening.

Excessive "wow".

1 Leads etc., fouling drive mechanism
2 Dirty or damaged Pinch Roller.
3 Incorrect adjustment of Pinch Roller assembly (see Brake adjustment, and Tension adjustment).
4 Motor fan blades bent or loose.
5 Incorrect Take-up torque.
6 Faulty motor.
7 Pinch Roller fouling on Cassette.
8 Cassette not firmly held down.
9 Cassette warped or damaged.

Tape Speed Slow.

1 Incorrect brake adjustment.
2 Incorrect Pinch Roller adjustment.
3 Supply Reel pulley stiff (check for free movement in Fast Forward mode). Note: The counter may also cause stiff operation.
4 Take-up Reel pulley stiff (check for free movement in Rewind mode).
5 Pinch Roller fouling on Cassette.
6 Cassette warped or damaged.
7 Pinch Roller requires adjustment.

Fast Forward Speed Slow.

1 Drive mechanism fouled.
2 Dirty, worn or greasy drive surfaces.
3 Incorrect Brake adjustment.
4 Insufficient Idler wheel tension (check Spring No. 76)
5 Supply or Take-up Reel pulley stiff.
6 Bent Shaft on Supply Reel pulley.

Rewind Speed Slow.

1 Drive mechanism fouled.
2 Dirty, worn or greasy drive surfaces.
3 Incorrect Brake adjustment.
4 Insufficient Idler wheel tension (check Spring No. 81)
5 Take-up or Supply reel pulley action stiff.
6 Bent Shaft on Supply Reel pulley.

No Tape Movement.

1 Motor not operating.
2 Micro switch not operating.
3 Drive Belt broken, stretched, worn or greasy.
4 Drive mechanism stiff or fouled.
5 Incorrect Brake adjustment.

Tape Tangling or Breaking.

1 Cassette not held firmly down on drive hubs of Supply and Take-up Reels.
2 Incorrect Brake adjustment.
3 Drive mechanism fouled, worn or greasy.
4 Flywheel drive shaft bent.
5 Pinch Roller requires adjustment.
6 Cassette warped or damaged.
7 Bent shaft on Supply Reel pulley.

Distorted playback.

1 Dirty or faulty play/record head.
2 Dirty or faulty record head.
3 No bias oscillator output to erase head.
4 Incorrect azimuth.
5 Distorted Cassette.

NB. A dirty head may play cleanly, but will produce a "woolly" recording