

SONY

Hi-Fi Products
Service Bulletin

Sony Service Company - Technical Services
A Division of Sony Corporation of America
Sony Drive, Park Ridge, New Jersey 07656

Model: TC-K670/K677ES/K679ES/K690/K850ES
/K870ES/K950ES/K890ES/K909ES

No. 332

Subject: Tape Gets Wrinkled

Date: April 19, 1993

Symptom:

(65) The tape gets wrinkled by the supply side capstan and pinch roller. This most often happens when using TDK type MA cassette tapes.

Solution:

Install the new type thrust retainer as shown in HiFi service bulletin (CSA-13) No. 275R1 (on applicable models).

Replace the spring in *Lever (BT) Assy* with the new type shown in the chart below.

Follow the Tape Path Alignment procedure below to ensure proper tape path.

Note: Proper tape path is a critical factor concerning this problem.

DESCRIPTION	PART NUMBER
SPRING FOR LEVER (BT) ASSY	3-389-995-01

Tape Path Alignment Tips

Refer to the Mechanical Adjustments section in the service manual for details on tape path alignment. The following tips will aid in correcting the tape wrinkle problem as described above.

It may be necessary to adjust both the supply side pinch roller tape guide and the position of the record / playback head. The need for taking this measure can be determined by checking for tape position movement when the mechanism takes up the tape (from Stop to Play mode). Check the tape position as follows:

- Insert a mirror cassette (CQ009C or equivalent) and carefully watch for a shift in the position of the tape (front to back movement or vice-versa) when going from the Stop to Play mode.
- If a shift in the tape position is noticeable, then it is necessary to re-align the position of both the supply side pinch roller and the record / playback head (see procedure outlined below).

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Tape Deck



(Continued)

If a shift in the tape position is not noticeable, then check for any tape curl along the tape guides, check alignment and inclination of erase head and check for proper record / playback head inclination (see service manual procedures for correcting these problems). Complete adjustment procedures outlined in the service manual.

Re-alignment of Supply Side Pinch Roller and Record / Playback Head

1. Determine whether it is necessary to adjust the mechanism components in or out by using the mirror cassette procedure outlined above.
2. Adjust reference H on the pinch roller and reference A, B and C on the record/playback head until tape position movement is no longer evident when the mechanism takes up the tape.
3. Check for proper head inclination, proper tape path across the tape guides and be sure that tape curl is not noticeable along the tape guides. Re-adjust the tape head azimuth and complete the adjustment procedures as outlined in the service manual when tape path is corrected. Also take special notice of alignment and position of erase head (see service manual adjustment).

