

Independent Suspension three-head design

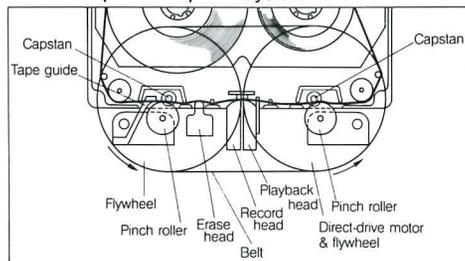
The Sony K777 incorporates the principal feature of professional cassette decks: three-head design. With separate erase, record and playback heads these decks enable you to monitor the tape as it's being recorded. Thus, you can compare the quality of the recorded music with the original source. And three heads can yield significant performance advantages, too.

For wide recording dynamic range, the head gap should be wide. Yet, for good playback high-frequency response, the gap should be narrow. Thus, a combined record/playback head must compromise between these two requirements. Three-head design circumvents this compromise. The result is outstanding dynamic range, along with superlative high-frequency response.

Sony's unique approach to the three-head format is called Independent Suspension. This design overcomes the azimuth, flux leakage and tape contact problems of conventional three-head cassette decks. The results are more extended high-frequency response, better tape-to-head contact, and more consistent performance.

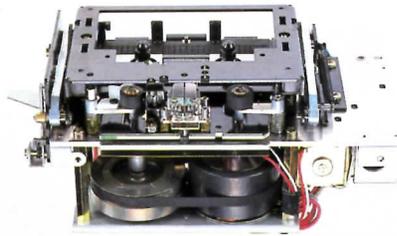


Closed-Loop Dual-Capstan System

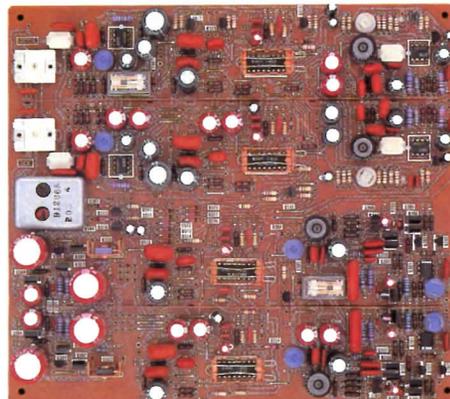
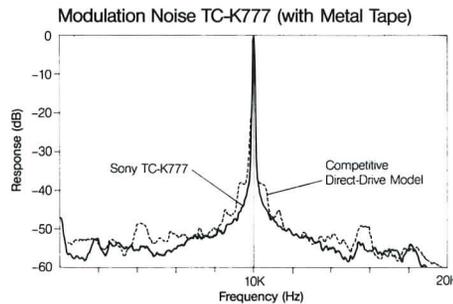


The direct-drive/closed-loop transport provides uncommonly smooth tape motion

The K777 boasts the advantages of closed-loop dual-capstan design. The second capstan maintains superior tape-to-head contact for improved consistency. To this, the K777 adds one important advance: quartz-lock direct drive. As a result, the K777 maintains smooth tape travel under the widest variety of operating conditions, and achieves an impressive wow and flutter of only 0.025% (WRMS).



The tape transport of the K777 is mounted on heavy-gauge aluminum plates a full three times as thick as conventional designs. Such rugged construction resists the vibrations and resonances that cause modulation noise. The audible result is sound that is remarkably clean and clear.



The electronics contribute to sonic accuracy

The selection, configuration, and layout of a tape deck's electronics make a major contribution to sound quality. In the design of the TC-K777, Sony has paid particular attention to critical parts and circuit layout.

The record and playback electronics of the K777 are arranged in a "twin monaural" format, with left and right channels placed in separate, symmetrical areas of the same circuit board, assuring reduced inter-channel cross-talk. All amplifier stages are direct-coupled (DC). And the playback head amplifier is direct-coupled for the purest possible sound.

Stable power supply for steady performance

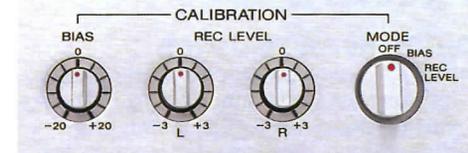
The power supply of the TC-K777 is carefully designed to minimize interference and noise. The transformer has a new, continuous-ribbon core design, for low hum radiation. To reduce radiation further still, the transformer is encapsulated and mounted outside the back panel.

The power supply circuit itself incorporates an FET buffer to assure a constant supply of current under varying load conditions.



Bias and record level controls: Calibration for every type of tape

Slight variations in bias requirements from one brand of tape to another can result in overly "bright" or "dull" high-frequency response, and excess distortion. In addition, improper record level calibration can interfere with the proper Dolby encoding. The Sony TC-K777 provides manual calibration controls that allow you to hand-tailor the machines for each tape you use.



Concentrated display

The TC-K777 provides an invaluable aid to listeners who want to make the finest possible recordings. Sony engineers have incorporated a Concentrated Display with 30-segment fluorescent Peak Program Meters. Appropriate words light up to indicate proper bias and record calibration levels — automatically. The display also includes an index of proper record levels for each type of tape. Equally important, the calibration and index markings are "on" only when you need them and "disappear" when not in use. The Concentrated Display is Sony's way of providing necessary information, clearly, simply and elegantly.

