

ABSTRACT OF THE DISCLOSURE

It is an object of the invention to realize a DTF control in a wide frequency range and a noiseless high-speed replay at several tens of times the normal relay speed without degradation of picture quality. It is also an object to provide an optimum contact between the head and the tape at all times by performing the tension control with high precision and in wide frequency range.

A pair of supply side stationary pins $10a_1$, $10a_2$ and a supply side movable pin $9a$ driven by a supply side tape actuator $11a$ are provided on the magnetic tape supply side of the head cylinder that has a rotary head H . By controlling the supply side tape actuator $11a$ to move the movable pin $9a$, the tension of the magnetic tape T at the head cylinder can be controlled. When the tape is replayed at speed different from the recording speed, the supply side tape actuator $11a$ and a takeup side tape actuator are operated differentially from each other to perform a good tracking.

