VCR Loading Operations

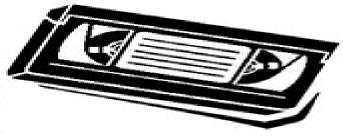
By Robert Epperson

Cassette Holder Control

When the mechanism state switch (S2104) is sec to the EJECT position, the cassette holder mechanism is powered by the capstan motor, in order to carry out the cassette loading process. Both the speed and directional rotation of the capstan motor are controlled by the System Control Microprocessor.

As illustrated in Flewe 1, capstan motor speed. is determined by the two voltages applied to the capstan motor drive ICOIM:

- Drive voltage applied to pin 5 from pin 27 of the Servo IC601 during cassette loading
- Power supply voltage applied to pin 6. This voltage originates from pin 18 (V.CAPST. CONT.) as a PWM signal through Q872. LPF, Q873, and Q874. This voltage varies



during normal operational modes from 10v to 13v. During cassette loading and eject, it is fixed at 13v.

The rotational direction of the capstan motor is determined by the logic at pin 41 of the System Control Microprocessor, and applied to pin 22 of ICOIM. The logic is LOW during cassette loading, and HIGH during EJECT.

When the cassette loading or EJECT operation

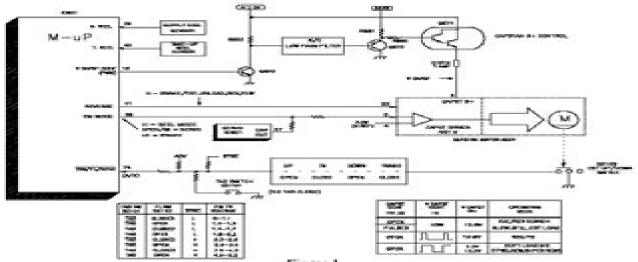


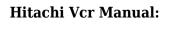
Figure 1.

INSIDE... NEXT MONTH . . .

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