

a crown industrial product

VSD-5A tape speed controller



The Crown VSD-5A attachment provides a five speed control option for Crown magnetic tape transports. The control unit mounts on top of the transport, and provides five pushbuttons for speed selection. These are factory set for 15, 7½, 3¾, 1¾ and ½ ips. Each speed selection can also be varied +50%, -25% by also depressing the VAR(iable) pushbutton, and rotating the panel mounted 10-turn control until the desired speed is achieved.

The VSD-5A system provides a servo-controlled drive system which replaces the synchronous drive motor of the standard Crown transport. This system provides a stable, accurate speed control that is independent of line voltage or frequency. A tachometer is included as an integral part of the motor for compactness and accuracy.

The VSD-5A can be factory mounted on its

transport, or can be added in the field to any Pro Series 700 or 800 Crown transport. The control unit incorporates forced air cooling for both the transport and for itself. An external input is provided which enables the VSD-5A to be used as a speed synchronizing unit between the transport and other equipment such as a movie camera. The VSD-5A operates on power from the transport, and requires no external connections. Fully solid-state electronics provide the durability and reliability for which Crown has become famous.

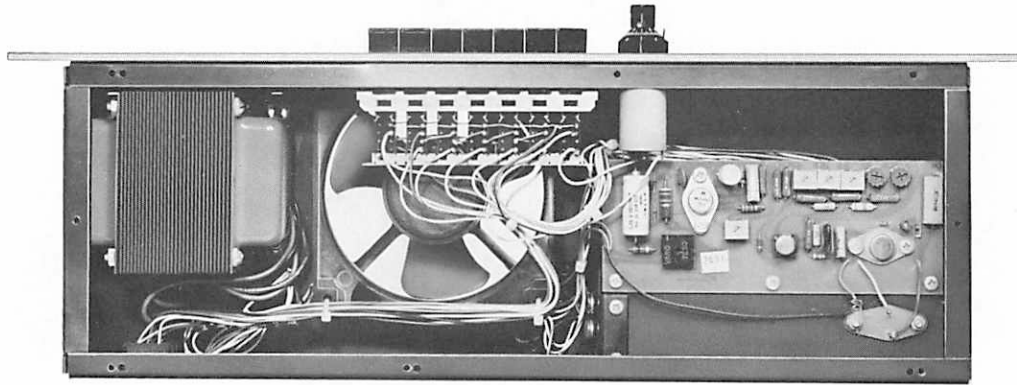
Service adjustment of the standard speeds is easily accomplished with a screw driver adjustment of separate speed trimming potentiometers while using a standard timing tape as reference. A bright aluminum front panel matches the panel on the transport.



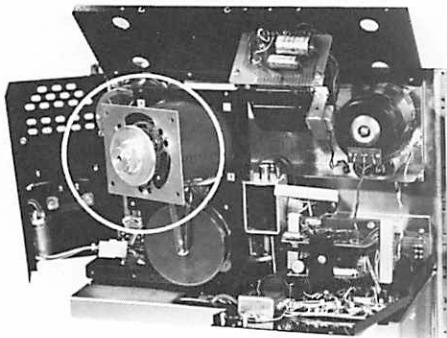
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INTERIOR VIEW



CROWN VSD-5A d.c.
Servo motor replaces
synchronous motor in
Pro Series Transports.



CROWN VSD-5A
Mounted on
Pro Series 800 Transport.

SPECIFICATIONS

STANDARD SPEEDS

15, 7½, 3¾, 1⅞, ⅞ ips.

SPEED RANGE

Each speed +50%, -25%.

Total ½ to 21 ips.

WOW AND FLUTTER

15 ips. 0.06%

7½ ips. 0.09%

3¾ ips. 0.18%

1⅞ ips. 0.5%

⅞ ips. 1.0%

(RMS values, guaranteed long term maximum.

Typically much better.)

POWER REQUIREMENTS

115 VAC, 40Hz to 400Hz; (from tape transports)

POWER CONSUMPTION

100 Watts.

MOUNTING

Standard 19" rack mount.

Mounts on top of any Crown Pro-series tape transport.

EXTERNAL INPUT

+2.5 VDC for front panel selected speed. For other speeds:

$$\text{control voltage (VDC)} = \frac{2.5 \times \text{desired speed (ips)}}{\text{front panel speed (ips)}}$$

DRIVE MOTOR

DC, servo controlled.

DRIVE BELT

Dual, neoprene Crown ground.

CONNECTIONS

J3-F to J3-M in transport.

J2-M to J2-F on DC motor.

FAN

Whisper, 100 cfm @ 3200 rpm. continuous operation.

FINISH

Bright anodized front panels, black anodized front panel.

WEIGHT

17 lbs.

DIMENSIONS

19" wide, 10" deep, 3½" high.

Complete operating manual available.

