# MODEL YF-225 B/V

**VIDEO HEAD TESTER** 



OPERATOR'S MANUAL

Thenk you for your patronage. Before using this instrument, please read thoroughly the instruction menual to obtain best performance.

## I. INTRODUCTION:

This instrument is a video head tester used for determing whether a video head is in good condition by detecting the wear state of the video head and indicating it on a meter. The meter indication will serve as a tentative guidance for confirming the wear state of the video head.

- Select the model applicable to the VTR system you are testing.
- YF-225V is a tester for the VHS system VTR.
- YF-225B is a tester for the BETA system VTR.

## II. SPECIFICATIONS:

Measuring Range of Video Head
 With a rotary switch for 3 ranges A, B and C measuring
 range of each system.

# MODEL-YF225B (BETA)

	Measuring Range	Nominal Inductance of 0 Point
Range A	approx. 0.8 — 3.4μΗ	1.5µH
Range B	approx. 0.6 - 2.8µH	1.2µH
Range C	арргох. 0.42 — 2.2µН	0.95 <i>µ</i> H

# MODEL YF-225V (VHS)

	Measuring Range	Nominal Inductance of 0 Point
Range A	approx. 0.2 - 3.5µH	H 146.0
Range B	approx. 0.8 - 3.0µH	1.4µH
Range C	approx. 0,5 - 1,5µH	0.85µH

2. Measuring Frequency ≈1MHZ

3. Measuring System Bridge measuring circuit

4. Power Supply 1pc of battery 006P 9V

5. Battery life about 10 hours

#### 3. Measuring Procedures

- According to the procedures for replacing the video head disconnect the soldered leads from each video heads.
- b) Identify the type of video head and set the range selector switch pointions A, B and C properly.
- c) Measuring method:
  - (1) Turn the power switch to "ON" position.
  - (2) Set the rotary switch at the "CAL.A, CAL.B or CAL.C" position.
  - (3) Adjustment "CAL,ADJ" potential and set the pointer at the "CAL" position on the meter scale.
  - (4) Disconnect the soldered leads at one side of the video head installed to the new replacing drum, and connect them to the measuring clips.
  - (5) When the rotary switch is changed from the "CAL.A, CAL.B or CAL.C" position to the "MEAS.A, MEAS.B or MEAS.C" position the range of pointer deflection indicate the measured values.

(Tables1 and 2 are the pointer indication ranges of the new video head or worn video head).

4. Judgement of measured values.

The pointer deflects according to degree of wear of the video head. Make a judgment referring to the measured values shown in Table 2.

# IV. OPERATION:

- Before starting to check the wear state of a video head, perform the following works.
  - a) Cleaning of the video head

Cleaning the video head and tape travelling unit.

Confirm the video head is not contaminated or clogged. (refer to the service manual available from the manufacturer).

- b) Checking of the coil and lead Using an ordinary Tester (use the resistance range of RX100 or RX1K) confirm continuity of the video head coils and leads.
- c) Visual check of the video head Prior to measurement, visurally check the video head for chipping. Because chipping on the video head cannot be measured
- 2. Adjustments of Video Head Tester
  - a) Adjustment of mechanical position of pointer. When power switch is OFF. Confirm that the pointer of the video heas tester is at the mechanical position. If not, adjust it by turnning the pointer adjusting screw.
    - b) Checking of battery Voltage

Turn the power switch to the "B. CHE." position. If the pointer is in the "BATTERY" range, battery voltage is sufficient. If the pointer is outside the range, replace battery with new ones (006P DC9V)

Table 1, Example of New Video Head Indication Range

	YF-225V	YF-225B
Α	3-4	1 – 2
В	3.5 - 5	1.5 5
С	3-4	4 6.5

Table 2, Range Selector and Measured Value

- Deflection when new heads
- Deflection when heads need replacing.
- Deflection when heads are worn.

SYSTEM	RANGE	MEASURED VALUE		
	Α.	7 6 5 4 3 2 1 0 CAL		
β.	8	7 6 5 4 3 2 1 0 CAL		
	С	7 6 5 4 3 2 1 0 GAL		

SYSTEM	RANGE	MEASURED VALUE	
	A	- 0 5 4 3 2 1 OCAL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
VHS	8	6 5 4 3 2 1 0 CAL	
-	. c	6. 5 4 3 2 1 OCAL	

# 5. Battery replacement

- a) Put off the power switch.
- b) Take away the test clips.
- c) Loose screw and open the real panel.
- d) Take out the batteries and replace them with new dry battery (\$-006P 9V). After replacing the battery, check the battery voltage.
- e) Cover the rear panel back and screw.

#### 6. Caution:

- a) As the range of pointer deflection somewhat differs depending upon the RANGE selector switch position A, B and C.
  - b) If the video head coils or leads are shorted the pointer does not indicate the proper value but is kept above the red zone.

- c) If the video head coils or leads are disconnected, the pointer will be kept in the power OFF position and does not deflect at all.
- d) When the video head is contaminated, the pointer deflects corresponding to the degree of wear irrespective of contamination.
- Keep it away from high temperature, humidity or under direct sunlight.
- f) Be sure to put it off after use, for long storage, the battery should be taken out lest the leakage of battery liquid damage the interior parts.

#### 7. Appendix

Range Selector and measured value

Deflection when new heads

Deflection when heads need replacing.

Deflection when heads are worn.

# VHS SYSTEM(I)

RAHGE	ROTARY DRUM	MODELS	MEASURED VALUE
۸	VEH0068 VEH0116 VEH0104 VH0124	NV-8300-5500 NV-8300-815 8600 NV-8600-5000 NV-8310-816 8400 NV-8200 NV-8200-817 NV-8410	O CAL
8	VEH0107 VEH0117	NV-8000 NV-8760 NV-8760 NV-3000,3500 NV-8450 870 8650, 3200 8700(N) 8460.875	
С	VEH0063 VEH0092 VEH0093 VEH0072 VEH0101 VEH0064 VEH0094	D; VCRI NV-9100-9200-9300 NV-9100 NV-9200A-9240 NV-9200, NV-9100-9100A-3300-9300A NV-9500 NV-9500-9500A-9600-AU-700	6 \$ 4 3 3 1 0 CAL

# VHS SYSTEM(I)

RANGE	MODE	LS	MEASURED VALUE
	VT-3000 VT-3500		6 5 4 3 2 1 0 CAL
	VT-4000 VT-4000R VT-5000 VT-5200 VT-5300	VT-5400 VT-5500 VT-6800 VT-7000	6 5 4 3 2 1 0 <i>URBINISTICA</i>
8	VT 5600 VT 5800 VT 6500 VT 6800	VT-8000 VT-8500 VT-9100 VT-9400 VT-9700	6 5 4 3 ? 1 0 1 EXCOUNTERS (2009)
С	VT-13 VT-12 VT-15 VT-16 VT-17 VT-7 VT-17- VT-17- VT-M1		6 5 4 3 2 1 0
	VT-7		AND STREET OF THE PERSON NAMED OF THE PERSON N

RANGE	ROTARY DRUM	MODELS	MEASURED VALUE
Α	DSR-12 DSR-17	ONLY Ch. B OF SL-5800 (RANGE B FOR ch. A)	1 FTE 52 3 3 1 8
	DSR-16	ONLY Ch. B OF SL-2500 (RANGE B FOR ch. A)	7415
В	RSV-1A RSV-2D RSV-6 DSR-12 17 DSR-16 DSR-27 DSR-20 DSR-26 DSR-33	FORMER DISC OF \$1.6200,7200,7200A, \$10.250,320,340, \$1.9.100,300,DPR-500 \$1.6200,8600,3000,51.230P(\$) \$1.5400,5600, ONLY Ch. A OF \$1.5800 (RANGE A FOR Ch. B) \$1.2500,000,FC of \$1.2500 (RANGE A FOR Ch. B) \$1.2500 \$1.5000 SERIES \$1.5W,5010,5100,5101 \$1.6000	CAL
С	RSV-4 DSR-09	SLO-323 B1 MACHINES AND ALL B! REPAIR PARTS	CAL THE STATE OF T
		CCIR MODELS (INCLUDE DUAL, TRIDENT	
<b>A</b>	DSR-21 DSR-22	SL-C9 SERIES SL-F1 SERIES	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
В	RSV-3A RSV-3B DSR-08 DSR-10 DSR-11 DSR-13 DSR-19 DSR-20 DSR-30	SL 8000 \$1.8000 SERIES SL 8080 SERIES VIDEO 2 \$1.670 SERIES CS SERIES, CS SERIES, VIDEO 3 \$1.3000 PT AV-77F \$1.3000 PT AV-77F \$1.06.31.5000, \$1.5100E, \$1.5W \$1.06E	· / / · · · · · · · · · · · · · · · · ·
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