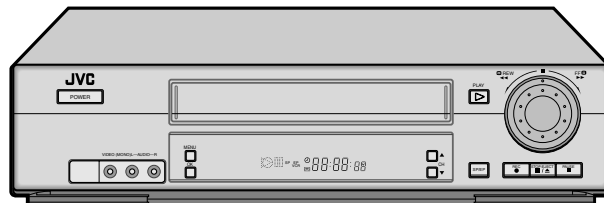


JVC

SERVICE MANUAL

VIDEO CASSETTE RECORDER

HR-VP78U



Regarding service information other than these sections, refer to the HR-VP78U service manual (No. 82777). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS

GENERAL

Power requirement	: AC 120 V~, 60 Hz
Power consumption	
Power on	: 19 W
Power off	: 2.5 W
Temperature	
Operating	: 5°C to 40°C (41°F to 104°F)
Storage	: -20°C to 60°C (-4°F to 140°F)
Operating position	: Horizontal only
Dimensions (W x H x D)	: 400 x 94 x 281 mm (15-3/4" x 3-3/4" x 11-1/8")
Weight	: 3.4 kg (7.5 lbs)
Format	: VHS NTSC standard
Maximum recording time	
SP	: 210 min. with ST-210 video cassette
EP	: 630 min. with ST-210 video cassette

VIDEO/AUDIO

Signal system	: NTSC-type color signal and EIA monochrome signal, 525 lines/60 fields
Recording/ Playback system	: DA-4 (Double Azimuth) head helical scan system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	: 230 lines (VHS)
Frequency range	
Normal audio	: 70 Hz to 10 000 Hz
Hi-Fi audio	: 20 Hz to 20 000 Hz
Input/Output	: RCA connectors (IN x 2, OUT x 1)

TUNER

Tuning system	: Frequency-synthesized tuner
Channel coverage	
VHF	: Channels 2-13
UHF	: Channels 14-69
CATV	: 113 Channels
RF output	: Channel 3 or 4 (switchable; preset to Channel 3 when shipped) 75 ohms, unbalanced

TIMER

Clock reference	: Quartz
Program capacity	: 1-year programmable timer/ 8 programs
Memory backup time	: Approx. 3 min.

ACCESSORIES

Provided accessories	: RF cable (F-type), Infrared remote control unit, "AA" battery x 2
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*Specifications shown are for SP mode unless specified otherwise.
E. & O.E. Design and specifications subject to change without notice.*

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DIFFERENT TABLE 1

4. CHARTS AND DIAGRAMS (4-1 to 4-3)

4.1 MAIN, R.PAUSE, A/C HEAD, LOADING MOTOR, SHUTTLE AND C.BOX CTL CIRCUIT BOARDS 4-2

The following table indicate main different points between models HR-VP780U and HR-VP78U.

ITEM	MODEL	HR-VP780U	HR-VP78U
B.E.S.T.PICTURE		AUTO PICTURE	A.V.CALIBRATION
CHILD LOCK		NOT USED	USE

The following tables indicate different parts number between models HR-VP780U and HR-VP78U.

PACKING AND ACCESSORY ASSEMBLY <M1>

REF. NO.	ITEM	MODEL	HR-VP780U	HR-VP78U
301	PACKING CASE		LP30658-001A	LP30658-035A
310	INST.BOOK(EN)		LPT0313-001B	LPT0507-001A
318	Q.S.SHEET		LPT0313-002A	LPT0507-002A

CABINET AND CHASSIS ASSEMBLY <M2>

REF. NO.	ITEM	MODEL	HR-VP780U	HR-VP78U
501	FRONT PANEL ASSY		LP10289-001A	LP10289-055A
501C	DISPLAY WINDOW		LP20869-001A	LP20869-074A
502	TOP COVER		*LP10013-021C	LP10013-020D
511	BOTTOM CHASSIS		*LP10108-010A	LP10108-010B

MAIN BOARD ASSEMBLY <03>

REF. NO.	ITEM	MODEL	HR-VP780U	HR-VP78U
PW1	MAIN BOARD ASSY		*LPA10088-01D1	LPA10088-01K1
IC1	IC		*JCP8020-NVA	JCP8020-NVD-2
Q26	TRANSISTOR		*DTC144WU	—
D3009	DIODE		*DA204U	—
D3013	DIODE		*DA204U	—
D5001	BRIDGE DIODE		*S1WB(A)60F4102	S1WB/A/60F4102
R92	MG RESISTOR		*NRSA02J-392X	NRSA02J-152X
R93	MG RESISTOR		*NRSA02J-222X	NRSA02J-102X
R104	MG RESISTOR		*NRSA02J-562X	NRSA02J-682X
R106	MG RESISTOR		*NRSA02J-225X	—
R107	RESISTOR		*QRE141J-225Y	—
R109	RESISTOR		*QRE141J-225Y	—
R3226	MG RESISTOR		*NRSA02J-103X	NRSA02J-472X
R3227	MG RESISTOR		*NRSA02J-103X	NRSA02J-472X
R4004	MG RESISTOR		*NRSA02J-0R0X	—
R6514	MG RESISTOR		*NRSA02J-0R0X	—
R6515	MG RESISTOR		*NRSA02J-0R0X	—
R7014	MG RESISTOR		*NRSA02J-0R0X	—
C1	CAPACITOR		*NCB21AK-105X	NCF21CZ-105X
C2	CAPACITOR		*NCB21AK-105X	NCF21CZ-105X
C3	CAPACITOR		*NCB21AK-105X	NCF21CZ-105X
C4	CAPACITOR		*NCB21AK-105X	NCF21CZ-105X
C8	CAPACITOR		*NCB21EK-473X	NCB21EK-104X
C13	CAPACITOR		*NCB21HK-103X	—
C15	CAPACITOR		*NCB21EK-104X	NCB21HK-103X
C56	CAPACITOR		*NCB21CK-474X	—
C64	CAPACITOR		*NDC21HJ-9R0X	NDC21HJ-150X
C109	CAPACITOR		*NCB21HK-223X	NCB21CK-224X
C3002	CAPACITOR		*NCB21EK-104X	—
C3024	E CAPACITOR		*QEKJ0JM-476	—
C3025	CAPACITOR		*NCB21HK-103X	—
C3029	CAPACITOR		*NCB21HK-103X	—
C3030	E CAPACITOR		*QEKJ0JM-227	—
C3051	CAPACITOR		*NCF11HZ-103X	—
C3054	CAPACITOR		*	NCB21HK-103X
C3055	E CAPACITOR		*QEKJ0JM-337	—
C6513	E CAPACITOR		*QEE81CJ-335	QETN1HM-335
C6514	E CAPACITOR		*QEE81CJ-106	QETN1HM-106
C7007	E CAPACITOR		*QEKJ0JM-107	QEKJ0JM-476
C7008	CAPACITOR		*NCF21CZ-105X	NCB21HK-223X
C7011	E CAPACITOR		*QEKJ0JM-227	QEKJ0JM-476
L2	COIL/BUS WIRE		*QLL29BJ-101Z	QUY153-050Y
L13	COIL		*QLL231J-101Y	QLL231J-680Y
K2251	FERRITE BEAD		*NQR0007-001X	—
K2252	FERRITE BEAD/MG RESISTOR		*NQR0007-001X	NRSA02J-0R0X
K2253	FERRITE BEAD		*NQR0007-001X	—
T5001	SW TRANSFORMER		*QQS0031-002	QQS0030-002
SG5001	SURGE ABSORBER		*QAF0046-242Z	—
VA5002	VARISTOR		*QAF0023-431Z	—
CP4001	CIRCUIT PROTECTOR/BUS WIRE		*ICP-N25	QUY153-050Y

Notes : • Mark — is not used. • Mark * reference model was also charged.

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