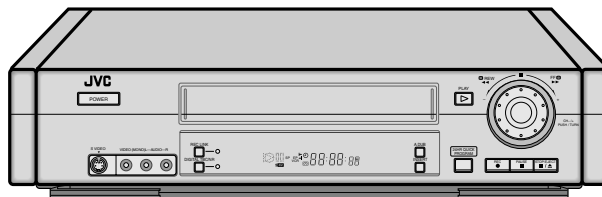


# JVC

## SERVICE MANUAL

### VIDEO CASSETTE RECORDER

## HR-S7900U/U(C)



Regarding service information other than these sections, refer to the HR-S5900U service manual (No. 82848). Also, be sure to note important safety precautions provided in the service manual.

### SPECIFICATIONS

#### GENERAL

Power requirement	: AC 120 V $\sim$ , 60 Hz
Power consumption	
Power on	: 20 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 mm x 94 mm x 283 mm
Weight	: 3.4 kg
Format	: S-VHS/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	
VHS	: 230 lines
S-VHS	: 400 lines
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) S-video 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	: Infrared remote control unit, "AA" battery x 2, S-video cable (4-pin), RF cable (F-type), Audio/video cable, Controller
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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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The following table indicate main different points between models HR-S5900U, HR-S7900U and HR-S7900U(C).

ITEM	MODEL	HR-S5900U	HR-S7900U	HR-S7900U(C)
DIGITAL 3R		NOT USED	DIGITAL	←←
TBC/NR		NOT USED	USED	←←
RECODING RESUME FUNCTION		NOT USED	USED	←←

The following tables indicate different parts number between models HR-S5900U, HR-S7900U and HR-S7900U(C).

**PACKING AND ACCESSORY ASSEMBLY <M1>**

△ REF. NO	ITEM	MODEL	HR-S5900U	HR-S7900U	HR-S7900U(C)
301	PACKING CASE		LP30899-001B	LP30943-001A	←←
302	CUSHION ASSY		LP30718-001B	LP30536-002A	←←
303	POLY BAG		PQM30021-93	PQM30021-103	←←
△ 310	INST BOOK(EN)		LPT0503-001A	LPT0504-001A	←←
△	INST BOOK(FR)		—	—	LPT0504-002A
314	CABLE ASSY(AUDIO/VIDEO)		—	QAM0174-001	←←
315	LED CABLE ASSY		—	QAL0095-005	←←
320	SHEET(COUPON)		LP30666-002B	—	—

**FINAL ASSEMBLY <M2>**

△ REF. NO	ITEM	MODEL	HR-S5900U	HR-S7900U	HR-S7900U(C)
△ 501	FRONT PANEL ASSY		LP10289-062C	LP10289-064C	←←
501D	DISPLAY WINDOW		LP20869-092A	LP20869-094B	←←
△ 502	TOP COVER		LP10013-021D	LP10013-057B	←←
503	SCREW, TOP COVER(SIDE)		QYTDSF3010M, X2	QYTDSF3010M, X4	←←
△ 511	BOTTOM CHASSIS		*LP10108-012E	LP10108-012F	←←
533	SIDE PANEL(L)		—	LP10389-001B	←←
534	SIDE PANEL(R)		—	LP10390-001B	←←

**Notes :** Mark ←← is same as left.  
Mark — is not used.

**MAIN BOARD ASSEMBLY <03>**

△ REF. NO	ITEM	MODEL	HR-S5900U	HR-S7900U	HR-S7900U(C)
PW1	MAIN BOARD ASSY		LPA10134-03D1	LPA10134-08D1	←
IC3003	IC		IC-PST3440U-X	IC-PST3423U-X	←
Q3004	TRANSISTOR		—	2SD1819A/QRS/-X	←
D12	DIODE		*1SS270A	—	—
D501	DIODE		*—	1SS355	←
D3004	DIODE		—	11ES2	←
D3006	ZENER DIODE		—	RD33ES/B2/-T2	←
R12	MG RESISTOR		*NRSA02J-0R0X	—	—
R30	MG RESISTOR		*NRSA02J-0R0X	—	—
R46	MG RESISTOR		NRSA02J-471X	NRSA02J-271X	←
R75	MG RESISTOR		—	NRSA02J-225X	←
R92	MG RESISTOR		*NRSA02J-0R0X	—	—
R3014	MG RESISTOR		—	NRSA02J-102X	←
R3019	MG RESISTOR		*—	NRSA02J-0R0X	←
R3042	MG RESISTOR		*—	NRSA02J-0R0X	←
R3043	MG RESISTOR		*NRSA02J-0R0X	—	—
R3095	MG RESISTOR		*NRSA02J-0R0X	—	—
R3232	MG RESISTOR		—	NRSA02J-104X	←
R3233	MG RESISTOR		—	NRSA02J-472X	←
R3234	MG RESISTOR		—	QRE141J-472Y	←
R3242	MG RESISTOR		NRSA02J-0R0X	—	—
R7010	MG RESISTOR		*NRSA02J-0R0X	—	—
B6	MG RESISTOR		*NRSA02J-0R0X	—	—
B3001	MG RESISTOR		NRSA02J-0R0X	—	—
B5308	MG RESISTOR		*NRSA02J-0R0X	—	—
C57	CAPACITOR		NCB21HK-103X	—	—
C63	CAPACITOR		NCB21EK-104X	NCB21EK-473X	←
C106	MG RESISTOR		*NRSA02J-0R0X	—	—
C201	E CAPACITOR		QEKJ0JM-107	QEKJ0JM-476	←
C3019	MG RESISTOR/CAPACITOR		NRSA02J-0R0X	NDC21HJ-150X	←
C3020	CAPACITOR		—	NDC21HJ-180X	←
C3028	E CAPACITOR		—	QETN0JM-108	←
C7003	E CAPACITOR		*QEKJ0JM-476	QETJ1AM-227	←
X3002	CRYSTAL RESONATOR		—	QAX0444-001	←
S7016	TACT SWITCH		QSW0456-002Z(SVHS ET)	QSW0456-002Z(D.TBC/NR)	←
J7101	PIN JACK,FRONT IN		QNN0381-001	QNN0383-001	←

**2D DIGITAL BOARD ASSEMBLY <05>**

△ REF. NO	ITEM	MODEL	HR-S5900U	HR-S7900U	HR-S7900U(C)
PW1	2D DIGITAL BOARD ASSY		LPA10090-05A	—	—

**3D DIGITAL/2M BOARD ASSEMBLY <05>**

△ REF. NO	ITEM	MODEL	HR-S5900U	HR-S7900U	HR-S7900U(C)
PW1	3D DIGITAL/2M BOARD ASSY		—	LPA10105-02A	←

**S JACK BOARD ASSEMBLY <36>**

△ REF. NO	ITEM	MODEL	HR-S5900U	HR-S7900U	HR-S7900U(C)
PW1	S JACK BOARD ASSY		LPA20009-02B	LPA20009-01B	←
J7102	S JACK		QND0084-001	QND0085-001	←

Notes : Mark ← is same as left.  
 Mark — is not used.  
 Mark : \* reference model was also changed.

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