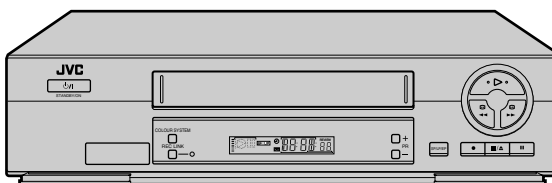


JVC

SERVICE MANUAL

VIDEO CASSETTE RECORDER

HR-J275EA/J275EE/J277MS/J371EM/J377EM



Regarding service information other than these sections, refer to the HR-J271MS/J677MS service manual (No. 82811). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS *(The specifications shown pertain specifically to the model HR-J377EM/J371EM)*

GENERAL

Power requirement	
Rating	: AC 110 V – 240 V~, 50/60 Hz
Operating	: AC 90 V – 260 V~, 50/60 Hz
Power consumption	: 14 W
Temperature	
Operating	: 5°C to 40°C
Storage	: -20°C to 60°C
Operating position	: Horizontal only
Dimensions (WxHxD)	: 360 mm x 94 mm x 278 mm
Weight	: 3.0 kg
Format	: VHS standard
Maximum recording time	
(SP)	: 240 min. with E-240 video cassette (PAL/MESECAM)
	: 160 min. with T-160 video cassette (NTSC)
(LP)	: 480 min. with E-240 video cassette (PAL/MESECAM)
(EP)	: 480 min. with T-160 video cassette (NTSC)

VIDEO/AUDIO

Signal system	: PAL-type colour signal and CCIR monochrome signal, 625 lines 50 fields
	: NTSC colour and EIA monochrome signals, 525 lines/60 fields
Recording system	: Rotary 2 head helical scan system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	: 250 lines (PAL/MESECAM)
	: 220 lines (NTSC)
Frequency range	: 70 Hz to 10,000 Hz
Input/Output	: RCA connectors (IN x 1, OUT x 1)

TUNER/TIMER

TV channel storage capacity	: 99 positions (+AUX position)
Tuning system	: Frequency synthesized tuner
Channel coverage	: VHF
	(Low) 42 MHz – 175 MHz
	(High) 175 MHz – 470 MHz
	UHF
	470 MHz – 870 MHz
Aerial output	: UHF channels (Adjustable E28 – E60)
Memory backup time	: Approx. 6 months
	Estimated figure based on supplied fresh battery; actual performance may differ.

ACCESSORIES

Provided accessories	: RF cable, Infrared remote control unit, "R6/UM-3" battery x 2, Lithium battery CR2025, Conversion plug*
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*Not provided in certain areas.

*Specifications shown are for SP mode unless otherwise specified.
Design and specifications subject to change without notice.*

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5. PARTS LIST (5-1 only)

5.1 PACKING AND ACCESSORY ASSEMBLY <M1> 5-1

The following table indicate main different points between models HR-J271MS, HR-J275EA, HR-J275EE, HR-J277MS and HR-J371EM.

ITEM \ MODEL	HR-J271MS	HR-J275EA	HR-J275EE	HR-J277MS	HR-J371EM
POWER PLUG	CEE	SAA	CEE	←	SASO
FRONT PANEL COLOR	SILVER	←	BLACK	←	SILVER
VCR PLUS+	NOT USED	USED	NOT USED	←	←
SKIP	USED	←	NOT USED	USED	←

The following table indicate main different points between models HR-J677MS and HR-J377EM.

ITEM \ MODEL	HR-J677MS	HR-J377EM
CHASSIS DIMENSIONS(WxHxD)mm	400x94x265	360x94x265
VIDEO	4 HEAD	2 HEAD
HIFI AUDIO	USED	NOT USED
STILL/PAUSE/FRAME ADVANCE	NOISELESS	REDUCED NOISE
HIFI LEVEL METER	USED	NOT USED
FRONT VIDEO IN/AUDIO IN	USED	NOT USED

The following table indicate different parts number between models HR-J271MS, HR-J275EA, HR-J275EE, HR-J277MS and HR-J371EM.

PACKING AND ACCESSORY ASSEMBLY <M1>

REF. NO. \ MODEL	ITEM	HR-J271MS	HR-J275EA	HR-J275EE	HR-J277MS	HR-J371EM
△ 301	PACKING CASE	LP30670-022A	LP30742-001B	LP30742-003A	LP30670-023A	LP30670-026A
304	HANDLE	—	—	—	—	PQ35439
305	SHEET(HANDLE)	—	—	—	—	PQ35430-1-2
△ 310	INST.BOOK(EN.CH)	LPT0421-001A	—	—	LPT0421-001A	—
△ 310	INST.BOOK(RU.AR)	LPT0422-002A	—	—	LPT0421-002A	—
△ 310	INST.BOOK(EN)	—	LPT0424-001A	—	—	—
△ 310	INST.BOOK(RU)	—	—	LPT0441-001A	—	LPT0423-003A
△ 310	INST.BOOK(EN.AR)	—	—	—	—	LPT0423-001A
△ 313	CONVERSION PLUG	—	—	—	—	PEMC1012
316	WARRANTY CARD	—	BT-56001-2	BT-54012-1	—	—
317	SERVICE NET CARD	—	BT-56002-2	—	—	—

CABINET AND CHASSIS ASSEMBLY <M2>

REF. NO. \ MODEL	ITEM	HR-J271MS	HR-J275EA	HR-J275EE	HR-J277MS	HR-J371EM
△ 501	FRONT PANEL ASSY	LP10293-020B	LP10293-016B	LP10293-018B	LP10293-021B	LP10293-022B
501A	CASSETTE DOOR	LP20868-024A	LP20868-020A	LP20868-022A	LP20868-022A	LP20868-024A
501C	DISPLAY WINDOW	LP20869-064A	LP20869-055A	LP20869-057A	LP20869-065A	LP20869-066A
△ 502	TOP COVER	PQ11898-38-18	←	PQ11898-26-18	←	PQ11898-38-18
△ 517	POWER CORD	QMP4A10-170	QMP2990-220	QMP4A10-170	←	QMP73J0-170

MAIN BOARD ASSEMBLY <03>

REF. NO. \ MODEL	ITEM	HR-J271MS	HR-J275EA	HR-J275EE	HR-J277MS	HR-J371EM
PW1	MAIN BOARD ASSY	LPA10088-34D1	LPA10088-35D1	LPA10088-34D1	←	←
IC3004	IC	M24C04-BN6	M24C08-BN6	M24C04-BN6	←	←
Q5301	TRANSISTOR	—	2SB1256-T	—	←	←
Q5302	DIGITAL TRANSISTOR	—	DTC114TUA-X	—	←	←
D5305	SI DIODE/BUS WIRE	—	11ES2-T2	QUY160-100Y	←	←
R5308	MG RESISTOR	—	NRSA02J-472X	—	←	←
R5309	MG RESISTOR	—	NRSA02J-222X	—	←	←

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

The following table indicate different parts number between models HR-J677MS and HR-J377EM.

PACKING AND ACCESSORY ASSEMBLY <M1>

△ REF. NO.	MODEL ITEM	HR-J677MS	HR-J377EM
301	PACKING CASE	LP30658-027A	LP30670-025A
302	CUSHION ASSY	LP30718-001A	LP30671-001C
303	POLY BAG	PQM30021-93	PQM30021-92
304	HANDLE	—	PQ35439
305	SHEET(HANDLE)	—	PQ35430-1-2
△ 310	INST.BOOK(EN.CH)	LPT0425-001A	—
△ 310	INST.BOOK(RU.AR)	LPT0425-002A	—
△ 310	INST.BOOK(EN.AR)	—	LPT0423-001A
△ 310	INST.BOOK(FR.SP)	—	LPT0423-002A

CABINET AND CHASSIS ASSEMBLY <M2>

△ REF. NO.	MODEL ITEM	HR-J677MS	HR-J377EM
△ 501	FRONT PANEL ASSY	LP10289-040B	LP10293-023B
501A	CASSETTE DOOR	LP20868-018A	LP20868-025A
501C	DISPLAY WINDOW	LP20869-053A	LP20869-067A
△ 502	TOP COVER	LP10013-027C	PQ11898-38-18
505	DRUM SUB ASSY	LP20617-002A	LP20617-005A
505A	UPPER DRUM ASSY	LP20616-002A	LP20084-003A
△ 511	BOTTOM CHASSIS	LP10108-009C	LP20262-003H

MAIN BOARD ASSEMBLY <03>

△ REF. NO.	MODEL ITEM	HR-J677MS	HR-J377EM
PW1	MAIN BOARD ASSY	LPA10086-17D1	LPA10086-18C1
IC1	IC	JCP8020-MSD-2	JCP8021-MVD-2
IC201	IC(OSD)	LC74789N-9795	LC74789N-9719
IC301	IC	—	LA7358
Q1	TRANSISTOR	2SC4081/S/-X	—
Q2	TRANSISTOR	2SC4081/S/-X	—
Q3	TRANSISTOR	2SC4081/S/-X	—
Q4	TRANSISTOR	2SC4081/S/-X	—
Q21	TRANSISTOR	—	2SA1576A/QR/-X
Q34	TRANSISTOR	—	2SA1576A/QR/-X
Q301	TRANSISTOR	—	2SA1576A/QR/-X
Q302	DIGITAL TRANSISTOR	—	DTA144WUA-X
Q2251	DIGITAL TRANSISTOR	DTA144WU	—
Q2252	DIGITAL TRANSISTOR	DTC114EU	—
D2101	ZENER DIODE	MTZJ8.2C	—
D2201	SI DIODE	11ES2	—
D5201	DIODE/FR DIODE	AK04	AU01Z
D5207	DIODE	—	AK04-T2
D5212	SB DIODE	RK14LF-B2	—
R21	MG RESISTOR	NRSA02J-0R0X	—
R22	MG RESISTOR	NRSA02J-0R0X	—
R47	MG RESISTOR	—	NRSA02J-821X
R48	MG RESISTOR	—	NRSA02J-102X
R71	MG RESISTOR	—	NRSA02J-0R0X
R72	MG RESISTOR	—	NRSA02J-333X
R73	MG RESISTOR	—	NRSA02J-682X
R301	MG RESISTOR	—	NRSA02J-273X
R302	MG RESISTOR	—	NRSA02J-124X
R303	MG RESISTOR	—	NRSA02J-273X
R304	MG RESISTOR	—	NRSA02J-682X
R305	MG RESISTOR	—	NRSA02J-473X
R306	MG RESISTOR	—	NRSA02J-273X
R307	MG RESISTOR	—	NRSA02J-222X
R308	MG RESISTOR	—	NRSA02J-222X
R309	MG RESISTOR	—	NRSA02J-821X
R310	MG RESISTOR	—	NRSA02J-223X
R311	MG RESISTOR	—	NRSA02J-392X
R312	MG RESISTOR	—	NRSA02J-272X
R313	MG RESISTOR	—	NRSA02J-223X
R314	CMF RESISTOR	—	NRSA02J-243X
R315	MG RESISTOR	—	NRSA02J-564X
R316	MG RESISTOR	—	NRSA02J-224X
R329	MG RESISTOR	—	NRSA02J-0R0X
R2001	MG RESISTOR	NRSA02J-681X	NRSA02J-101X
R2002	MG RESISTOR	NRSA02J-272X	—

Note : Mark — is not used.

REF. NO.	MODEL		HR-J677MS	HR-J377EM
	ITEM			
R2004	MG RESISTOR		—	NRSA02J-472X
R2005	MG RESISTOR		NRSA02J-0R0X	NRSA02J-153X
R2006	MG RESISTOR		NRSA02J-393X	—
R2007	MG RESISTOR		NRSA02J-393X	—
R2008	RESISTOR		QRE141J-123Y	QRE141J-103Y
R2009	MG RESISTOR		NRSA02J-123X	—
R2010	MG RESISTOR		NRSA02J-123X	—
R2016	MG RESISTOR		NRSA02J-393X	NRSA02J-473X
R2056	MG RESISTOR		NRSA02J-820X	NRSA02J-680X
R2201	RESISTOR		QRE141J-151Y	—
R2202	MG RESISTOR		NRSA02J-222X	—
R2203	MG RESISTOR		NRSA02J-222X	—
R2204	MG RESISTOR		NRSA02J-102X	—
R2205	MG RESISTOR		NRSA02J-102X	—
R2206	MG RESISTOR		NRSA02J-101X	—
R2208	MG RESISTOR		NRSA02J-101X	—
R2209	MG RESISTOR		NRSA02J-101X	—
R2210	MG RESISTOR		NRSA02J-103X	—
R2211	MG RESISTOR		NRSA02J-103X	—
R2213	MG RESISTOR		NRSA02J-393X	NRSA02J-473X
R2215	MG RESISTOR		NRSA02J-153X	NRSA02J-562X
R2217	MG RESISTOR		NRSA02J-0R0X	—
R2218	MG RESISTOR		NRSA02J-393X	—
R2219	MG RESISTOR		NRSA02J-393X	—
R2220	MG RESISTOR		NRSA02J-393X	—
R2222	MG RESISTOR		NRSA02J-123X	—
R2223	MG RESISTOR		NRSA02J-123X	—
R2224	MG RESISTOR		NRSA02J-123X	—
R2225	RESISTOR		QRE141J-153Y	—
R2226	MG RESISTOR		NRSA02J-123X	—
R2227	RESISTOR		QRE141J-223Y	—
R2228	MG RESISTOR		NRSA02J-103X	—
R2229	MG RESISTOR		NRSA02J-563X	—
R2251	MG RESISTOR		NRSA02J-102X	—
R3011	MG RESISTOR		NRSA02J-472X	—
R3012	MG RESISTOR		NRSA02J-472X	—
R3014	MG RESISTOR		NRSA02J-472X	—
R3079	MG RESISTOR		—	NRSA02J-102X
R3080	MG RESISTOR		NRSA02J-472X	—
R3085	MG RESISTOR		NRSA02J-102X	—
R3086	MG RESISTOR		NRSA02J-102X	—
R3087	MG RESISTOR		NRSA02J-0R0X	—
R3094	MG RESISTOR		—	NRSA02J-102X
R3095	MG RESISTOR		—	NRSA02J-102X
R3240	MG RESISTOR		NRSA02J-105X	—
R4010	MG RESISTOR		NRSA02J-102X	—
R5301	RESISTOR/IM BUS WIRE		QRE141J-2R2Y	QUY153-050Y
R6032	MG RESISTOR		NRSA02J-222X	NRSA02J-332X
R7025	MG RESISTOR		NRSA02J-472X	—
R7121	MG RESISTOR		NRSA02J-101X	—
R7127	MG RESISTOR		NRSA02J-101X	—
R7160	MG RESISTOR		NRSA02J-331X	—
R7161	MG RESISTOR		NRSA02J-101X	—
R7162	MG RESISTOR		NRSA02J-331X	—
R7163	MG RESISTOR		NRSA02J-750X	—
R7204	RESISTOR		QRE141J-103Y	—
C3	CAPACITOR		NCB21HK-103X	—
C4	CAPACITOR		NCB21HK-103X	—
C51	E CAPACITOR		QEKJ1HM-105	—
C69	CAPACITOR		NCB21HK-103X	—
C70	CAPACITOR		NCB21HK-103X	—
C79	CAPACITOR		—	NDC21HJ-390X
C89	MG RESISTOR		—	NRSA02J-0R0X
C90	MG RESISTOR		—	NRSA02J-0R0X
C94	MG RESISTOR/CAPACITOR		NRSA02J-0R0X	NCB21HK-103X
C95	CAPACITOR		—	NCB21HK-103X
C301	CAPACITOR		—	NDC21HJ-151X
C302	E CAPACITOR		—	QEKJ1HM-225Z
C303	CAPACITOR		—	NCB21HK-682X
C304	CAPACITOR		—	NCB21HK-682X
C305	CAPACITOR		—	NCB21HK-103X
C306	E CAPACITOR		—	QEKJ0JM-476Z

Note : Mark — is not used.

REF. NO.	ITEM	MODEL	HR-J677MS	HR-J377EM
C307	CAPACITOR		—	NDC21HJ-151X
C308	CAPACITOR		—	NCB21HK-103X
C309	CAPACITOR		—	NCB21EK-104X
C310	CAPACITOR		—	NCB21HK-103X
C311	CAPACITOR		—	NCB21HK-103X
C312	CAPACITOR		—	NCB21HK-102X
C313	E CAPACITOR		—	QERF1HM-474Z
C314	CAPACITOR		—	NCB21HK-471X
C315	E CAPACITOR		—	QERF1CM-106Z
C316	CAPACITOR		—	NCB21HK-103X
C317	CAPACITOR		—	NCB21HK-681X
C318	CAPACITOR		—	NCB21EK-223X
C319	CAPACITOR		—	NCB21CK-105X
C320	CAPACITOR		—	NCB21HK-103X
C321	CAPACITOR		—	NDC21HG-301X
C322	CAPACITOR		—	NCB21CK-474X
C2001	E CAPACITOR		QEKJ1EM-475	QEKJ1CM-106Z
C2002	E CAPACITOR		QEKJ1CM-106	QEKJ1HM-105Z
C2010	CAPACITOR		NCB21HK-152X	—
C2201	CAPACITOR		NCB21CK-104X	—
C2202	CAPACITOR		NCB21EK-333X	—
C2203	E CAPACITOR		QEKJ1CM-106	—
C2204	CAPACITOR		NCB21HK-102X	—
C2205	E CAPACITOR		QEKJ1HM-105	—
C2206	E CAPACITOR		QEKJ1CM-106	—
C2207	E CAPACITOR		QEKJ1CM-476	—
C2208	E CAPACITOR		QEKJ1EM-475	—
C2209	E CAPACITOR		QEKJ1HM-104	—
C2210	E CAPACITOR		QEKJ1HM-104	—
C2211	E CAPACITOR		QEKJ1HM-474	—
C2212	E CAPACITOR		QEKJ1HM-474	—
C2213	E CAPACITOR		QEKJ1CM-106	—
C2214	E CAPACITOR		QEKJ1CM-106	—
C2215	E CAPACITOR		QEKJ1EM-475	—
C2216	E CAPACITOR		QEKJ1HM-474	QEKJ1HM-104Z
C2217	E CAPACITOR		QEKJ1CM-106	—
C2218	E CAPACITOR		QEKJ1HM-474	—
C2219	E CAPACITOR		QEKJ1CM-106	—
C2220	E CAPACITOR		QEKJ1EM-475	—
C2221	CAPACITOR		NCB21HK-103X	—
C2222	E CAPACITOR		QEKJ1HM-474	—
C2223	E CAPACITOR		QEKJ1HM-474	—
C2224	CAPACITOR		NCB21HK-103X	—
C2225	E CAPACITOR		QEKJ1EM-475	—
C2226	E CAPACITOR		QEKJ1CM-106	—
C2227	CAPACITOR		NCB21CK-104X	—
C2228	CAPACITOR		NCB21CK-104X	—
C2251	E CAPACITOR		QEKJ1CM-476	—
C2252	CAPACITOR		QCBB1HK-103	—
C2253	CAPACITOR		NCB21CK-104X	—
C2254	CAPACITOR		NCB21CK-104X	—
C2255	CAPACITOR		NDC21HJ-181X	—
C5203	E CAPACITOR		QEMT1AM-128	QEMT1AM-687
C6007	E CAPACITOR		QETN1AM-477	QEKJ1CM-107Z
L14	P COIL		—	QQL29BJ-101Z
L301	P COIL		—	QQL29BJ-100Z
L302	P COIL		—	QQL29BJ-6R8Z
L303	INDUCTOR		—	QQL231J-270Y
L2251	P COIL		QQL29BJ-100Z	—
L2252	P COIL		QQL29BJ-151Z	—
L6001	P COIL/IM BUS WIRE		QQL29BJ-100Z	QUY153-050Y
△ TB1	TERMINAL BOARD		LP20316-007B	LP20383-006B
CN1	FPC CONNECTOR		QGF1028C1-11	QGF1028C3-04
K2251	MG RESISTOR		NRSA02J-0R0X	—
K2252	MG RESISTOR		NRSA02J-0R0X	—
K2253	MG RESISTOR		NRSA02J-0R0X	—
DI7001	FL TUBE		QLF0032-001	QLF0031-001
HD1	HOLDER		LP30188-001A	PQ35479-1-4
S7008	TACT SWITCH		QSW0456-002Z	—
J7103	PIN JACK		QNN0286-002	QNN0292-002
J7104	PIN JACK		QNN0285-002	QNN0291-002
J7105	PIN JACK		QNN0288-002	—

Note : Mark — is not used.

MINI OPE BOARD ASSEMBLY <28>

△	REF. NO.	MODEL	HR-J677MS	HR-J377EM
	ITEM			
	PW2	MINI OPE BOARD ASSY	LPA10086-02D2	LPA10086-02C2

P.PAUSE BOARD ASSEMBLY <91>

△	REF. NO.	MODEL	HR-J677MS	HR-J377EM
	ITEM			
	PW3	P.PAUSE BOARD ASSY	LPA10086-01D3	—
	R7166	MG RESISTOR	NRSA02J-101X	—
	J7107	MINI JACK	PU60612	—
	CN7104	PARA RIBON WIRE	QUM022-18A4A4	—

Note : Mark — is not used.



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VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

S40894