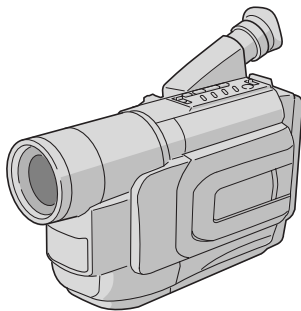


JVC

SERVICE MANUAL

COMPACT VHS CAMCORDER

GR-AX777UM, SX877UM



S VHS
Super VHS
Super VHS ET

Regarding service information other than these sections, refer to the GR-AX760U service manual (No.86596). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-AX777UM, GR-SX877UM)*

Camcorder	
General	
Format	: S-VHS (GR-SXM747UM/SXM347UM/SXM247UM/SX877UM only)/VHS NTSC standard
Power source	: DC 11 V (Using AC Adapter) DC 6 V (Using battery pack)
Power consumption	
Viewfinder on	: 4.0 W (GR-SXM747UM/SXM347UM/SXM247UM only) 3.7 W (GR-SX877UM/AX777UM only)
LCD monitor* on	: 4.5 W (GR-SXM747UM/SXM347UM/SXM247UM only)
Video light**	: 3.0 W
* Models equipped with LCD monitor only. ** GR-SXM747UM/SXM347UM/SXM247UM/SX877UM only.	
Signal system	: NTSC-type
Video recording system	
Luminance	: FM recording
Color	: Converted sub-carrier direct recording Conforms to VHS standard
Cassette	: S VHS / VHS cassette
Tape speed	
SP	: 33.35 mm/sec. (1-5/16 ips)
EP	: 11.12 mm/sec. (7/16 ips)
Recording time (max.)	
SP	: 40 minutes
EP	: 120 minutes (with TC-40)
Operating temperature	: 0°C to 40°C (32°F to 104°F)
Operating humidity	: 35% to 80%
Storage temperature	: -20°C to 50°C (-4°F to 122°F)
Weight	: Approx. 910 g (2.0 lbs) (GR-SXM747UM only) Approx. 900 g (2.0 lbs) (GR-SXM347UM/SXM247UM only) Approx. 730 g (1.6 lbs) (GR-SX877UM only) Approx. 720 g (1.6 lbs) (GR-AX777UM only)
Dimensions (W x H x D)	: 206 mm x 112 mm x 118 mm (8-1/8" x 4-7/16" x 4-11/16") (GR-SXM747UM/SXM347UM/SXM247UM only) 206 mm x 112 mm x 115 mm (8-1/8" x 4-7/16" x 4-9/16") (GR-SX877UM/AX777UM only) (with the LCD monitor* closed and with the viewfinder full tilted downward)
* Models equipped with LCD monitor only.	
Pickup	: 1/4" format CCD
Lens	: F1.6, f = 3.9 mm to 62.4 mm, 16:1 power zoom lens with auto iris and macro control, filter diameter 40.5 mm
Viewfinder	: Electronic viewfinder with 0.55" color LCD (GR-SX877UM only) Electronic viewfinder with 0.5" black/white CRT (GR-SXM747UM/SXM347UM/SXM247UM/AX777UM only)
White balance adjustment	: Auto/Manual adjustment
LCD monitor (models equipped with LCD monitor only)	: 3" diagonally measured, LCD panel/TFT active matrix system (GR-SXM747UM only) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-SXM347UM/SXM247UM only)
Speaker (models equipped with LCD monitor only)	: Monaural
Connectors	
Video	: 1 V (p-p), 75 Ω unbalanced, analog output (via Video output connector)
Audio	: 300 mV (rms), 1 kΩ analog output (via Audio output connector)
S-Video (GR-SXM747UM/SXM347UM/SXM247UM/SX877UM only)	: Y: 1 V (p-p), 75 Ω, analog output C: 0.29 V (p-p), 75 Ω, analog output
AC Adapter AP-V10U	
Power requirement	: AC 110 V to 240 V~, 50 Hz/60 Hz
Output	: DC 11 V , 1 A
Dimensions (W x H x D)	: 59 mm x 31 mm x 69 mm (2-3/8" x 1-1/4" x 2-3/4")
Weight	: Approx. 130 g (0.29 lbs)
Optional Accessories	
<ul style="list-style-type: none">• Battery Packs BN-V12U, BN-V20U, BN-V400U• A/V (Audio/Video) Cable• S-Video Cable QAM0004-004• Compact S-VHS (S VHS) Cassettes ST-C-40/30/20• Compact VHS (VHS) Cassettes TC-40/30/20• Active Carrying Bag CB-V7U	
Some accessories are not available in some areas. Please consult your nearest JVC dealer for details on accessories and their availability.	

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

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The following table indicate main different points between models GR-AX760U,GR-AX777UM and GR-SX877UM.

ITEM	MODEL	GR-AX760U	GR-AX777UM	GR-SX877UM
VIEW FINDER		B/W	←	COLOR
VIDEO LIGHT		NOT USED	←	USED
IR RECEIVER		NOT USED	←	USED
BODY COLOR		MOLD BLACK	←	SILVER
TOTAL ZOOM RATIO		400 X	600 X	←
LIGHT SW		NOT USED	←	USED
DIGITAL ZOOM		50 X/400 X/OFF	50 X/600 X/OFF	←
S-VHS ON/OFF		NOT USED	←	USED
S OUT PUT		NOT USED	←	USED
REMOTE CONTROL UNIT(RM-V715U)		NOT USED	←	USED

Note: Mark ← is same as left.

The following table indicate different parts number between models GR-AX760U,GR-AX777UM and GR-SX877UM.

PACKING AND ACCESSORY ASSEMBLY <M1>

REF NO.	ITEM	MODEL	GR-AX760U	GR-AX777UM	GR-SX877UM
1	PACKING CASE		LY32179-001A	LY32054-0A4A	LY32054-0A6A
△ 5	IB(EN)		LYT0689-001B	LYT0731-001A	←
△	IB(SP)			LYT0731-002A	←
7	REGIST.CARD		BT-51020-2	—	←
16	REMOTE CONTROLLER		—	←	LY42129-001A
18	BATTERY,X2,AAA(R03)		—	←	USED

FINAL ASSEMBLY <M2>

REF NO.	ITEM	MODEL	GR-AX760U	GR-AX777UM	GR-SX877UM
△ 101	LOWER CASE ASSY		LY20684-001B	←	LY20684-003B
104	FRONT COVER ASSY		LY20683-002B	LY20683-006B	LY20683-018A
104E	DC LIGHT		—	←	LY32040-001A
	COVER(LIGHT)		LY30934-015A	LY30934-017A	—
104F	SPACER(A)		—	←	LY30029-0B4A
△ 104H	CAUTION LABEL		—	←	YQ44341-6
104J	STICKER(A)		LY32058-001A	←	LY32058-002A
105	CASS.COVER(S) ASSY		LY20680-002A	←	LY20680-009A
105D	WINDOW(S)		LY32023-002A	←	LY32023-003A
105E	STICKER(B)		LY32059-001A	←	LY32059-002A
106	UPPER CASE(S)		LY10272-007A	LY10272-011A	LY10272-012A
109	TOP OPE UNIT		LY20614-004B	←	LY20614-001B
130	FRAME ASSY		LY20678-002A	←	LY20678-001A
130E	CONTACT(LIGHT)		—	←	YQ43810-1-1
130F	E-SI C WIRE C-F		—	←	WJM0167-001A

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

MECHANISM ASSEMBLY <M3>

△ REF NO.	ITEM	MODEL	GR-AX760U	GR-AX777UM	GR-SX877UM
400	MECHA(B) ASSY		YMA0030-E	←	YMA0031A-E
406	C.GUIDE(R) ASSY		—	←	YQ44339A-7
406A	SW.LEVER(R)		—	←	YQ32162-1-3
406B	TORSION SPRING		—	←	YQ44340-1-4
407	TAP SCREW		—	←	LY42819-001A
466	ROTARY ENCODER		QSW0888-001	←	QSW0888-002

ELECTRONIC VIEWFINDER ASSEMBLY <M4>

△ REF NO.	ITEM	MODEL	GR-AX760U	GR-AX777UM	GR-SX877UM
△ 300	ELECTRONIC VIEWFINDER ASSY(COLOR)		—	←	LYH20242-001A
△ 350	ELECTRONIC VIEWFINDER ASSY(B/W)		LY20701-001A	←	—

MAIN BOARD ASSEMBLY <01>

△ REF NO.	ITEM	MODEL	GR-AX760U	GR-AX777UM	GR-SX877UM
PW1	MAIN BOARD ASSY		YB10310UA-03	YB10310UN-03	YB10310UO-04
IC1801	IR DETECT UNIT		—	←	PIC-26043S
IC7001	IC		—	←	CDX3518R
IC7005	IC		—	←	BA4558F-X
IC7008	IC		—	←	SN74LV4052APW-X
Q3006	DIGI TRANSISTOR		—	←	DTC144EE-X
Q3505	DIGI TRANSISTOR		—	←	DTC144EE-X
Q4705	TRANSISTOR		—	←	2SC4617/QR/-X
Q4706	TRANSISTOR		—	←	2SC4617/QR/-X
Q4707	TRANSISTOR		—	←	2SC4617/QR/-X
Q4711	PAIR TRANSISTOR		—	←	PUMX1-W
Q4712	PAIR TRANSISTOR		—	←	PUMT1-W
Q4713	PAIR TRANSISTOR		—	←	PUMX1-W
Q4714	PAIR TRANSISTOR		—	←	PUMT1-W
Q4715	PAIR TRANSISTOR		—	←	HN1C01FU/G/-X
Q6306	MOS FET		—	←	SSM3K02F-X
Q7001	PAIR TRANSISTOR		—	←	PUMX1-W
Q7003	PAIR TRANSISTOR		—	←	PUMX1-W
Q7005	PAIR TRANSISTOR		—	←	PUMX1-W
Q7023	TRANSISTOR		2SA1774/QR/-X	←	—
D3001	SI DIODE		—	←	DAN222-X
D7001	VARI CAP DIODE		—	←	MA365-X
R3027	MG RESISTOR		—	←	NRSA63J-103X
R4701	MG RESISTOR		NRSA63J-0R0X	←	—
R4702	MG RESISTOR		NRSA63J-680X	←	NRSA63J-820X
R4711	MG RESISTOR		—	←	NRSA63J-121X
R4712	CMF RESISTOR		—	←	NRVA63D-561X
R4713	MG RESISTOR		—	←	NRSA63J-681X
R4714	MG RESISTOR		—	←	NRSA63J-122X
R4715	MG RESISTOR		—	←	NRSA63J-0R0X
R4716	CMF RESISTOR		—	←	NRVA63D-561X
R4717	CMF RESISTOR		—	←	NRVA63D-222X
R4718	MG RESISTOR		—	←	NRSA63J-104X
R4719	MG RESISTOR		—	←	NRSA63J-222X
R4720	MG RESISTOR		NRSA63J-0R0X	←	—
R4721	CMF RESISTOR		—	←	NRVA63D-680X
R4723	CMF RESISTOR		—	←	NRVA63D-680X

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

REF NO.	ITEM	MODEL	GR-AX760U	GR-AX777UM	GR-SX877UM
R4735	MG RESISTOR		—	←	NRSA63J-332X
R4736	MG RESISTOR		—	←	NRSA63J-332X
R4737	MG RESISTOR		—	←	NRSA63J-104X
R4738	MG RESISTOR		—	←	NRSA63J-332X
R4739	MG RESISTOR		—	←	NRSA63J-332X
R4741	CMF RESISTOR		—	←	NRVA63D-152X
R4743	CMF RESISTOR		—	←	NRVA63D-223X
R4744	CMF RESISTOR		—	←	NRVA63D-222X
R4745	CMF RESISTOR		—	←	NRVA63D-681X
R4746	CMF RESISTOR		—	←	NRVA63D-222X
R4747	CMF RESISTOR		—	←	NRVA63D-681X
R6306	MG RESISTOR		—	←	NRS12BK-R47W
R6307	MG RESISTOR		—	←	NRSA63J-104X
R7002	MG RESISTOR		—	←	NRSA63J-102X
R7003	MG RESISTOR		—	←	NRSA63J-103X
R7004	MG RESISTOR		—	←	NRSA63J-333X
R7005	MG RESISTOR		—	←	NRSA63J-103X
R7007	CMF RESISTOR		—	←	NRVA63D-473X
R7008	CMF RESISTOR		—	←	NRVA63D-913X
R7061	CMF RESISTOR		—	←	NRVA63D-183X
R7062	CMF RESISTOR		—	←	NRVA63D-334X
R7077	CMF RESISTOR		—	←	NRVA63D-682X
R7078	CMF RESISTOR		—	←	NRVA63D-822X
R7079	MG RESISTOR		—	←	NRSA63J-0R0X
R7083	MG RESISTOR		—	←	NRSA63J-105X
R7085	CMF RESISTOR		—	←	NRVA63D-822X
R7086	CMF RESISTOR		—	←	NRVA63D-123X
R7088	CMF RESISTOR		—	←	NRVA63D-223X
R7090	CMF RESISTOR		—	←	NRVA63D-822X
R7091	CMF RESISTOR		—	←	NRVA63D-123X
R7093	CMF RESISTOR		—	←	NRVA63D-223X
R7095	CMF RESISTOR		—	←	NRVA63D-822X
R7096	CMF RESISTOR		—	←	NRVA63D-123X
R7098	CMF RESISTOR		—	←	NRVA63D-223X
R7099	CMF RESISTOR		—	←	NRVA63D-103X
R7100	CMF RESISTOR		—	←	NRVA63D-103X
R7101	CMF RESISTOR		—	←	NRVA63D-103X
R7102	CMF RESISTOR		—	←	NRVA63D-103X
R7103	CMF RESISTOR		—	←	NRVA63D-103X
R7124	CMF RESISTOR		—	←	NRVA63D-103X
R7137	CMF RESISTOR	NRVA63D-911X		←	—
R7138	CMF RESISTOR	NRVA63D-271X		←	—
R7212	MG RESISTOR		—	←	NRSA63J-0R0X
C3033	C CAPACITOR		—	←	NCB31CK-104X
C4708	C CAPACITOR		—	←	NDC31HJ-820X
C4709	C CAPACITOR		—	←	NDC31HJ-150X
C4710	C CAPACITOR		—	←	NCB31EK-103X
C4711	C CAPACITOR		—	←	NCB21CK-105X
C4715	C CAPACITOR		—	←	NCB21CK-105X
C4719	C CAPACITOR		—	←	NCB31EK-103X
C6307	E CAPACITOR		—	←	NEA71CM-106X
C7003	TA E CAPACITOR		—	←	NBE20JM-335X
C7004	C CAPACITOR		—	←	NCB31HK-332X
C7005	C CAPACITOR		—	←	NCB31EK-103X
C7006	C CAPACITOR		—	←	NDC31HJ-390X
C7007	C CAPACITOR		—	←	NCB31HK-102X
C7008	C CAPACITOR		—	←	NCB31EK-103X

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

REF NO.	ITEM	MODEL	GR-AX760U	GR-AX777UM	GR-SX877UM
C7012	C CAPACITOR		—	←	NCB31CK-104X
C7021	TA E CAPACITOR		—	←	NBP41EM-475X
C7022	C CAPACITOR		—	←	NCB31EK-103X
C7024	TA E CAPACITOR		—	←	NBP41EM-475X
C7041	TA E CAPACITOR		—	←	NBE21AM-106X
C7045	C CAPACITOR	NDC31J-100X		←	—
C7046	C CAPACITOR	NDC31J-100X		←	—
C7047	C CAPACITOR	NDC31J-100X		←	—
C7048	TA E CAPACITOR	NBE20JM-106X		←	—
C7053	C CAPACITOR		—	←	NCB31CE-103X
C7054	TA E CAPACITOR		—	←	NBP41EM-475X
C7056	C CAPACITOR		—	←	NCB21CK-104X
C7058	C CAPACITOR		—	←	NCB31CK-104X
C7061	C CAPACITOR		—	←	NCB11CK-475X
C7062	C CAPACITOR		—	←	NCB11CK-475X
C7063	C CAPACITOR		—	←	NCB11CK-475X
C7067	C CAPACITOR		—	←	NCB31CK-104X
C7069	C CAPACITOR		—	←	NCB31EK-103X
L6306	INDUCTOR		—	←	NQL52EM-470X
L7002	INDUCTOR		—	←	NQL085J-8R2X
L7005	P COIL		—	←	NQL38DK-220X
L7007	P COIL		—	←	NQL38DK-220X
L7008	P COIL		—	←	NQL38DK-220X
L7012	P COIL	NQL144K-100X		←	—
CN11	FPC CONNECTOR		—	←	QGF0507F1-20X
CN12	W TO B CONNECTOR	QGA1201F2-05X		←	—
J505	S JACK		—	←	QND0068-001

ELECTRONIC VIEWFINDER ASSEMBLY<M4>

REF NO.	ITEM	MODEL	GR-AX760U	GR-AX777UM	GR-SX877UM
PW1	C-VF BL BOARD ASSY		—	←	YB20901A

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



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