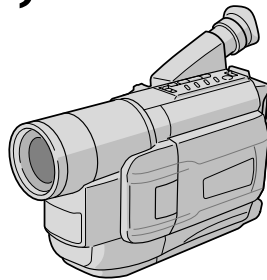


# JVC

## SERVICE MANUAL

### COMPACT VHS CAMCORDER

# GR-AXM236U, AXM240U, SXM240U SXM245U, SXM248U AXM341U, SXM540U, SXM745U



**S VHS**

*Super VHS  
Super VHS ET*

Regarding service information other than these sections, refer to the GR-SXM340U and GR-SXM740U service manual (No. 86656). Also, be sure to note important safety precautions provided in the service manual.

### SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-SXM745U)*

Camcorder	
<b>General</b>	
Format	: S-VHS/VHS NTSC standard
Power source	: DC 11 V $\text{---}$ (Using AC Adapter) DC 6 V $\text{---}$ (Using battery pack)
Power consumption	
Viewfinder on	: 4.0 W
LCD monitor on	: 4.5 W
Video light	: 3.0 W
Signal system	: NTSC-type
Video recording system	
Luminance	: FM recording
Color	: Converted sub-carrier direct recording Conforms to VHS standard
Cassette	: <b>S VHS</b> / <b>VHS</b> 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 cassette)
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. 930 g (2.1 lbs)
Dimensions (W x H x D)	: 200 mm x 112 mm x 118 mm (7-7/8" x 4-7/16" x 4-11/16") (with the LCD monitor closed and with the viewfinder fully tilted downward)
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 0.5" black/white CRT
White balance adjustment	: Auto/Manual adjustment
LCD monitor	: 3.5" diagonally measured, LCD panel/TFT active matrix system
Speaker	: Monaural
<b>Connectors</b>	
Video	: 1 V (p-p), 75 $\Omega$ unbalanced, analog output (via Video output connector)
Audio	: 300 mV (rms), 1 k $\Omega$ analog output (via Audio output connector)
Digital	: $\phi$ 3.5 mm, 4-pole, mini-head jack
S-Video	: Y : 1 V (p-p), 75 $\Omega$ , analog output C : 0.29 V (p-p), 75 $\Omega$ , analog output
<b>AC Adapter</b>	
Power requirement	
U.S.A. and Canada	: AC 120 V $\sim$ , 60 Hz
Other countries	: AC 110 V to 240 V $\sim$ , 50 Hz/60 Hz
Output	: DC 11 V $\text{---}$ , 1 A
<b>Optional Accessories</b>	
• Battery Packs BN-V12U, BN-V20U, BN-V400U	
• A/V (Audio/Video) Cable	
• Compact S-VHS ( <b>S VHS</b> ) Cassettes ST-C-40/30/20	
• Compact VHS ( <b>VHS</b> ) 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.	
<i>Specifications shown are for SP mode unless otherwise indicated. E &amp; O.E. Design and specifications subject to change without notice.</i>	

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The following table indicate main different points between models GR-SXM340U, GR-AXM236UC, GR-AXM240UC, GR-SXM240U, GR-SXM245U, GR-SXM245UC and GR-SXM248UC.

ITEM \ MODEL	GR-SXM340U	GR-AXM236UC	GR-AXM240UC	GR-SXM240U	GR-SXM245U	GR-SXM245UC	GR-SXM248UC
BODY COLOR	METALLIC GRAY	MOLD BLACK	←	←	METALLIC GRAY	←	SILVER
DC LIGHT	Used	Not Used	Used	←	←	←	←
DIGITAL TERMINAL	Used	Not Used	←	←	←	←	←

The following table indicate main different points between models GR-SXM740U, GR-AXM341U, GR-SXM540UC and GR-SXM745U.

ITEM \ MODEL	GR-SXM740U	GR-AXM341U	GR-SXM540UC	GR-SXM745U
LCD MONITOR	3.5"	3"	←	3.5"
BODY COLOR	SILVER	MOLD BLACK	SILVER	←
DIGITAL TERMINAL	Used	Not Used	Used	←
REMOTE CONTROL UNIT	Not Used	←	←	RM-V715U

The following table indicate different parts number between models GR-SXM340U, GR-AXM236UC, GR-AXM240UC, GR-SXM240U, GR-SXM245U, GR-SXM245UC and GR-SXM248UC.

**PACKING AND ACCESSORY ASSEMBLY <M1>** Note: As for IB (INSTRUCTIONS), refer to sec.5.

△ REF. No.	ITEM \ MODEL	GR-SXM340U	GR-AXM236UC	GR-AXM240UC	GR-SXM240U	GR-SXM245U	GR-SXM245UC	GR-SXM248UC
1	PACKING CASE	LY32545-001B	LY32545-003A	←	LY32545-002A	←	←	←
6	REGIST.CARD	BT-51028-1	—	—	BT-51028-1	←	—	—
7	WARRANTY INF.	BT-51005-5	—	—	BT-51005-5	←	—	—
9	SHEET (AGREMENT)	LYT0934-001A	—	—	—	—	—	—
17	WARRANTY CARD	—	BT-52004-2	←	—	—	BT-52004-2	←
18	SER.NET CARD	—	BT-20071B	←	—	—	BT-20071B	←
32	PC CONNECTION CABLE	QAM0384-001	—	—	—	—	—	—
33	CORE FILTER	QQR1266-001	—	—	—	—	—	—
34	CD ROM ASSY	LY32210-020B	—	—	—	—	—	—
36	SHEET (ATT.)	LYT0974-001A	—	—	—	—	—	—

**FINAL ASSEMBLY <M2>**

△ REF. No.	ITEM \ MODEL	GR-SXM340U	GR-AXM236UC	GR-AXM240UC	GR-SXM240U	GR-SXM245U	GR-SXM245UC	GR-SXM248UC
101	CASSETTE COVER(M)ASSY	LY20694-012A	LY20694-010A	←	←	LY20694-012A	←	LY20694-011A
103	UPPER CASE(M)	LY10257-054A	LY10257-062A	LY10257-051A	LY10257-069A	LY10257-063A	←	LY10257-072A
110	LOWER CASE ASSY	LY20684-023A	LY20684-005A	←	LY20684-022A	←	←	←
125	TOP OPE UNIT	LY20614-012C	LY20614-004C	LY20614-010C	←	LY20614-020B	←	LY20614-001C
130	REAR UNIT	LY20615-007B	LY20615-005E	←	←	←	←	←
135	FRONT COVER ASSY	LY20683-036A	LY20683-038A	LY20683-034A	←	LY20683-039A	←	LY20683-054A
135F	DC LIGHT/COVER(LIGHT)	LY32040-001A	LY30934-017A	LY32040-001A	←	←	←	←
135G	STICKER(A)	LY32058-002A	LY32058-001A	LY32058-002A	←	←	←	←
135H	STICKER(C)	LY32060-003A	LY32060-005A	←	←	←	←	←
135J	SPACER(A)	LY30029-0B4A	—	LY30029-0B4A	←	←	←	←
135K	CAUTION LABEL	YQ44341-6	—	YQ44341-6	←	←	←	←
139	SCREW	—	*QYSPSTU1725M	*←	*←	*←	*←	*←
140	FRAME ASSY	LY20832-001B	LY20832-002B	LY20832-001B	←	←	←	←
140E	CONTACT(LIGHT),X2	YQ43810-1-1	—	YQ43810-1-1	←	←	←	←
140F	E-SI C WIRE C-F	WJM0259-001A	—	WJM0259-001A	←	←	←	←
142	SCREW	QYSPSPU1720Z(X2)	*QYSPSPU1720Z(X1)	*←	*←	*←	*←	*←

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

**MECHANISM ASSEMBLY <M3>**

REF. No.	ITEM	MODEL	GR-SXM340U	GR-AXM236UC	GR-AXM240UC	GR-SXM240U	GR-SXM245U	GR-SXM245UC	GR-SXM248UC
400	MECHA(B)ASSY		YMA0034A-E	YMA0033A-E	←	YMA0034A-E	←	←	←
406	CASSETTE GUIDE ASSY(RIGHT)		YQ44339A-7	—	—	YQ44339A-7	←	←	←
406A	SW.LEVER(RIGHT)		YQ32162-1-3	—	—	YQ32162-1-3	←	←	←
406B	TORSION SPRING		YQ44340-1-4	—	—	YQ44340-1-4	←	←	←
407	SCREW		LY42819-001A	—	—	LY42819-001A	←	←	←
466	ROTARY ENCODER		QSW0888-002	QSW0888-001	←	QSW0888-002	←	←	←

**MONITOR ASSEMBLY <M5>**

REF. No.	ITEM	MODEL	GR-SXM340U	GR-AXM236UC	GR-AXM240UC	GR-SXM240U	GR-SXM245U	GR-SXM245UC	GR-SXM248UC
△500	MONITOR ASSY		LY20836-005A	LY20836-006A	←	LY20836-016A	LY20836-005A	←	LY20836-021A
△501	MONITOR COVER ASSY		LY20834-004A	LY20834-005A	←	LY20834-009A	LY20834-004A	←	LY20834-007A
501A	PLATE(WINDOW)		LY32329-002A	LY32329-001A	←	LY32329-002A	←	←	←
501B	STICKER(B)		LY32554-003A	LY32554-004A	←	LY32554-003A	←	←	←
505	HINGE COVER(UPPER)		LY31939-004A	LY31939-003A	←	←	LY31939-004A	←	LY31939-001A

**MAIN BOARD ASSEMBLY <01>**

REF. No.	ITEM	MODEL	GR-SXM340U	GR-AXM236UC	GR-AXM240UC	GR-SXM240U	GR-SXM245U	GR-SXM245UC	GR-SXM248UC
PW1	MAIN BOARD ASSY		YB10356UB1-01	YB10356UI1-01	YB10356UA1-01	YB10356U01-01	←	←	←
IC105	IC(DIGITAL)		TC7S66FU-X	—	—	—	—	—	—
IC4002	IC		Z4C2973-32-X	—	—	—	—	—	—
IC4701	IC		—	MM1512XN-X	←	—	—	—	—
IC4702	IC		BA7665FS	—	—	BA7665FS	←	←	←
IC8001	IC		MAX3221CAE	—	—	—	—	—	—
Q3505	TRANSISTOR		DTC144EE	—	—	DTC144EE	←	←	←
Q4001	TRANSISTOR		DTC144EE	—	—	DTC144EE	←	←	←
Q6306	MOS FET		SSM3K02F	—	SSM3K02F	←	←	←	←
D4001	DIODE		DAN222	—	—	DAN222	←	←	←
D8001	ZENER DIODE		EMZ6.8N	—	—	—	—	—	—
D8002	ZENER DIODE		EMZ6.8N	—	—	—	—	—	—
R182	MG RESISTOR		NRSA63J-105X	—	—	—	—	—	—
R4013	MG RESISTOR		NRSA63J-102X	—	—	—	—	—	—
R4014	MG RESISTOR		NRSA63J-103X	—	—	NRSA63J-103X	←	←	←
R4712	MG RESISTOR		NRSA63D-680X	—	—	NRSA63D-680X	←	←	←
R4713	MG RESISTOR		NRSA63D-680X	—	—	NRSA63D-680X	←	←	←
R6306	MG RESISTOR		NRS12BK-R47W	—	NRS12BK-R47W	←	←	←	←
R6307	MG RESISTOR		NRSA63J-104X	—	NRSA63J-104X	NRSA63J-104X	←	←	←
R8001	MG RESISTOR		NRSA63J-331X	—	—	—	—	—	—
R8002	MG RESISTOR		NRSA63J-0R0X	—	—	—	—	—	—
R8003	MG RESISTOR		NRSA63J-0R0X	—	—	—	—	—	—
C144	CAPACITOR		—	NDC31HJ-101X	←	←	←	←	←
C4006	CAPACITOR		—	NDC31HJ-100X	←	←	←	←	←
C4024	CAPACITOR		NCF31EZ-104X	—	—	—	—	—	—
C4025	CAPACITOR		NCB31CK-104X	—	—	NCB31CK-104X	←	←	←
C4044	CAPACITOR		NCB30JK-105X	—	—	—	—	—	—
C4713	E CAPACITOR		NEA70JM-226X	—	—	NEA70JM-226X	←	←	←
C4714	E CAPACITOR		NEA70GM-107X	—	—	NEA70GM-107X	←	←	←
C4715	CAPACITOR		NCB31EK-103X	—	—	NCB31EK-103X	←	←	←
C6307	E CAPACITOR		NEA71CM-106X	—	NEA71CM-106X	←	←	←	←
C8001	CAPACITOR		NCF31EZ-104X	—	—	—	—	—	—
C8002	CAPACITOR		NCF31EZ-104X	—	—	—	—	—	—
C8003	CAPACITOR		NCF31EZ-104X	—	—	—	—	—	—
C8004	CAPACITOR		NCF31EZ-104X	—	—	—	—	—	—
C8005	CAPACITOR		NBE20JM-106X	—	—	—	—	—	—
C8006	CAPACITOR		NCF31EZ-104X	—	—	—	—	—	—
L501	MG RESISTOR		NRSA63J-0R0X	—	—	—	—	—	—
L2001	COIL		NQL144K-470X	NQL144K-101X	NQL144K-470X	←	←	←	←
L8001	COIL		NQL365K-220X	—	—	—	—	—	—
J505	S JACK		QND0068-001	—	—	QND0068-001	←	←	←
CN6	CONNECTOR		QGA1201C2-02X	—	QGA1201C2-02X	←	←	←	←

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

The following table indicate different parts number between models GR-SXM740U, GR-AXM341U, GR-SXM540UC and GR-SXM745U.

**PACKING AND ACCESSORY ASSEMBLY <M1>** Note: As for IB (INSTRUCTIONS), refer to sec.5.

REF. No.	ITEM	MODEL	GR-SXM740U	GR-AXM341U	GR-SXM540UC	GR-SXM745U
1	PACKING CASE		LY32545-006B	LY32545-003A	LY32545-001B	LY32545-006B
6	REGIST CARD		BT-51028-1	←	—	BT-51028-1
7	WARRANTY INF.		BT-51005-5	←	—	BT-51005-5
9	SHEET (AGREMENT)		LYT0934-001A	—	LYT0934-001A	←
17	WARRANTY CARD		—	—	BT-52004-2	—
18	SER.NET CARD		—	—	BT-20071B	—
19	REMOTE CONTROL UNIT		—	—	—	LY42129-001A
20	BATTERY,X2		—	—	—	AAA(R03)
32	PC CONNECTION CABLE		QAM0384-001	—	QAM0384-001	←
33	CORE FILTER		QQR1266-001	—	QQR1266-001	←
34	CD ROM ASSY		LY32210-020B	—	LY32210-020B	←
36	SHEET (ATT.)		LYT0974-001A	—	LYT0974-001A	←

**FINAL ASSEMBLY <M2>**

REF. No.	ITEM	MODEL	GR-SXM740U	GR-AXM341U	GR-SXM540UC	GR-SXM745U
101	CASSETTE COVER(M)ASSY		LY20815-001A	LY20694-010A	LY20694-011A	LY20815-001B
103	UPPER CASE(M)		LY10257-056A	LY10257-050A	LY10257-052A	LY10257-070A
110	LOWER CASE ASSY		LY20684-023A	LY20684-005A	LY20684-023A	←
125	TOP OPE UNIT		LY20614-009C	LY20614-010C	LY20614-009C	←
130	REAR UNIT		LY20764-010A	LY20615-005E	LY20615-007B	LY20764-010A
135	FRONT COVER ASSY		LY20683-035A	LY20683-034A	LY20683-035A	←
135G	STICKER(A)		LY32058-003A	LY32058-002A	LY32058-003A	←
135H	STICKER(C)		LY32060-003A	LY32060-005A	LY32060-003A	←
139	SCREW		QYSPSPU1720Z(X2)	*QYSPSPU1720Z(X1)	*←	*←
142	SCREW		—	*QYSPSTU1725M	*←	*←

**MECHANISM ASSEMBLY <M3>**

REF. No.	ITEM	MODEL	GR-SXM740U	GR-AXM341U	GR-SXM540UC	GR-SXM745U
400	MECHA(B)ASSY		YMA0034A-E	YMA0033A-E	YMA0034A-E	←
406	CASSETTE GUIDE ASSY(RIGHT)		YQ44339A-7	—	YQ44339A-7	←
406A	SW.LEVER(RIGHT)		YQ32162-1-3	—	YQ32162-1-3	←
406B	TORSION SPRING		YQ44340-1-4	—	YQ44340-1-4	←
407	SCREW		LY42819-001A	—	LY42819-001A	←
466	ROTARY ENCODER		QSW0888-002	QSW0888-001	QSW0888-002	←

**MONITOR ASSEMBLY <M5>**

REF. No.	ITEM	MODEL	GR-SXM740U	GR-AXM341U	GR-SXM540UC	GR-SXM745U
500	MONITOR ASSY		LY20836-007A	LY20836-012A	LY20836-010A	LY20836-007A
501	MONITOR COVER ASSY		LY20816-001A	LY20834-005A	LY20834-007A	LY20816-001A
501A	PLATE(WINDOW)		LY32329-002A	LY32329-001A	LY32329-002A	←
501B	STICKER(B)		LY32554-003A	LY32554-004A	LY32554-003A	←
501C	SPACER(A)		—	LY30029-0R3A	←	—
501D	SPACER(A)		—	LY30029-0R4A	←	—
502	MONITOR CASE ASSY		LY32544-001A	LY32035-001A	←	LY32544-001A
504	SHIELD CASE		LY32334-001A	LY32332-001A	←	LY32334-001A
505	HINGE COVER(UPPER)		LY31939-001A	LY31939-003A	LY31939-001A	←
518	LCD MODULE		QLD0212-001	QLD0213-001	←	QLD0212-001
519	LIGHT SCREEN		—	LY43391-001A	←	—
520	LAMP		—	QLL0111-001	←	—
521	HOLDER,X2		—	LY43394-001A	←	—
522	SHEET		—	LY43395-001A	←	—
523	DIFFUSION SHEET(3)		—	LY43363-001A	←	—
528	LCD FRAME		LY32335-001A	LY32333-001A	←	LY32335-001A
530	BACK LIGHT		QLL0113-001	—	—	QLL0113-001

Notes : Mark ← is same as left.

Mark — is not used.

Mark \* reference model was also changed.

**MAIN BOARD ASSEMBLY <01>**

△ REF. No.	ITEM	MODEL	GR-SXM740U	GR-AXM341U	GR-SXM540UC	GR-SXM745U
PW1	MAIN BOARD ASSY		YB10356-UK1-01	YB10356-UJ1-01	YB10356-UK1-01	YB10356UC1-01
IC105	IC(DIGITAL)		TC7S66FU-X	—	TC7S66FU-X	←
IC1801	IR DETECT UNIT		—	—	—	PIC-26043S
IC4002	IC		Z4C2973-32-X	—	Z4C2973-32-X	←
IC4701	IC		—	MM1512XN-X	—	—
IC4702	IC		BA7665FS	—	BA7665FS	←
IC8001	IC		MAX3221CAE	—	MAX3221CAE	←
Q3505	TRANSISTOR		DTC144EE	—	DTC144EE	←
Q4001	TRANSISTOR		DTC144EE	—	DTC144EE	←
D4001	DIODE		DAN222	—	DAN222	←
D8001	ZENER DIODE		EMZ6.8N	—	EMZ6.8N	←
D8002	ZENER DIODE		EMZ6.8N	—	EMZ6.8N	←
R182	MG RESISTOR		NRSA63J-105X	—	NRSA63J-105X	←
R4013	MG RESISTOR		NRSA63J-102X	—	NRSA63J-102X	←
R4014	MG RESISTOR		NRSA63J-103X	—	NRSA63J-103X	←
R4712	MG RESISTOR		NRSA63D-680X	—	NRSA63D-680X	←
R4713	MG RESISTOR		NRSA63D-680X	—	NRSA63D-680X	←
R8001	MG RESISTOR		NRSA63J-331X	—	NRSA63J-331X	←
R8002	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	←
R8003	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	←
C144	CAPACITOR		—	NDC31HJ-101X	←	←
C4006	CAPACITOR		—	NDC31HJ-100X	—	—
C4024	CAPACITOR		NCF31EZ-104X	—	NCF31EZ-104X	←
C4025	CAPACITOR		NCB31CK-104X	—	NCB31CK-104X	←
C4044	CAPACITOR		NCB30JK-105X	—	NCB30JK-105X	←
C4713	E CAPACITOR		NEA70JM-226X	—	NEA70JM-226X	←
C4714	E CAPACITOR		NEA70GM-107X	—	NEA70GM-107X	←
C4715	CAPACITOR		NCB31EK-103X	—	NCB31EK-103X	←
C8001	CAPACITOR		NCF31EZ-104X	—	NCF31EZ-104X	←
C8002	CAPACITOR		NCF31EZ-104X	—	NCF31EZ-104X	←
C8003	CAPACITOR		NCF31EZ-104X	—	NCF31EZ-104X	←
C8004	CAPACITOR		NCF31EZ-104X	—	NCF31EZ-104X	←
C8005	CAPACITOR		NBE20JM-106X	—	NBE20JM-106X	←
C8006	CAPACITOR		NCF31EZ-104X	—	NCF31EZ-104X	←
L501	MG RESISTOR		NRSA63J-0R0X	—	NRSA63J-0R0X	←
L8001	COIL		NQL365K-220X	—	NQL365K-220X	←
J505	S JACK		QND0068-001	—	QND0068-001	←

**MONITOR BOARD ASSEMBLY <07>**

△ REF. No.	ITEM	MODEL	GR-SXM740U	GR-AXM341U	GR-SXM540UC	GR-SXM745U
PW	MONITOR BOARD ASSY		YB20913F	YB20913E	←	YB20913F
Q7607	TRANSISTOR		DTC144EE	—	—	DTC144EE
R7622	MG RESISTOR		NRSA63J-0R0X	—	—	NRSA63J-0R0X
R7647	MG RESISTOR		—	NRSA63J-0R0X	←	—
R7648	MG RESISTOR		NRSA63J-103X	—	—	NRSA63J-103X
R7649	MG RESISTOR		—	NRSA63J-333X	←	—
R7650	MG RESISTOR		NRSA63J-103X	—	—	NRSA63J-103X

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

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# JVC SERVICE & ENGINEERING COMPANY OF AMERICA

## DIVISION OF JVC AMERICAS CORP.

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