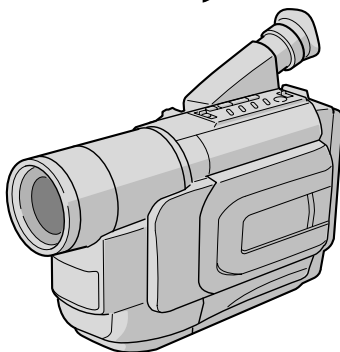


# JVC

## SERVICE MANUAL

### COMPACT VHS CAMCORDER

# GR-SX23EG, SX24EG/EK



**S VHS** VHS  
PAL  
625  
**Super VHS**  
**Super VHS ET**

Regarding service information other than these sections, refer to the GR-SX18EG service manual (No. 86657). Also, be sure to note important safety precautions provided in the service manual.

### SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-SXM58EK/SXM48EK/FXM38EK/SX24EK/FX14EK)*

Camcorder	
<b>General</b>	
<b>Format</b>	: S-VHS (GR-SXM58/SXM48/SX24 only)/VHS PAL standard
<b>Power source</b>	: DC 11 V $\Rightarrow$ (Using AC Adapter) DC 6 V $\Rightarrow$ (Using battery pack)
<b>Power consumption</b>	
<b>Viewfinder on</b>	: 4.0 W (GR-SXM58/SXM48/FXM38 only) 3.7 W (GR-SX24/FX14 only)
<b>LCD monitor* on</b>	: 4.5 W (GR-SXM58/SXM48/FXM38 only)
<b>Video light**</b>	: 3.0 W
* Applicable models only. ** GR-SXM58/SXM48/SX24 only.	
<b>Signal system</b>	: PAL-type
<b>Video recording system</b>	
<b>Luminance</b>	: FM recording
<b>Colour</b>	: Converted sub-carrier direct recording Conforms to VHS standard
<b>Cassette</b>	: <b>S VHS</b> / <b>VHS</b> cassette
<b>Tape speed</b>	
<b>SP</b>	: 23.39 mm/sec.
<b>LP</b>	: 11.70 mm/sec.
<b>Recording time (max.)</b>	
<b>SP</b>	: 60 minutes
<b>LP</b>	: 120 minutes (with EC-60 cassette)
<b>Operating temperature</b>	: 0°C to 40°C
<b>Operating humidity</b>	: 35% to 80%
<b>Storage temperature</b>	: -20°C to 50°C
<b>Weight</b>	: Approx. 910 g (GR-SXM58/SXM48 only) Approx. 900 g (GR-FXM38 only) Approx. 860 g (GR-SX24 only) Approx. 850 g (GR-FX14 only)
<b>Dimensions</b>	: 200 mm x 112 mm x 118 mm (GR-SXM58/SXM48/FXM38 only) 200 mm x 112 mm x 115 mm (GR-SX24/FX14 only) (with the LCD monitor* closed and with the viewfinder fully tilted downward)
* Applicable models only.	
<b>Pickup</b>	: 1/6" format CCD
<b>Lens</b>	: 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
<b>Viewfinder</b>	: Electronic viewfinder with 0.5" black/white CRT
<b>White balance adjustment</b>	: Auto/Manual adjustment
<b>LCD monitor</b>	: 2.5" diagonally measured, LCD panel/TFT
<b>(Applicable models only)</b>	: active matrix system
<b>Speaker</b>	: Monaural
<b>(Applicable models only)</b>	

#### Connectors

**Video (via Video output connector)**: 1 V (p-p), 75  $\Omega$  unbalanced, analogue output  
**Audio (via Audio output connector)**: 300 mV (rms), 1 k $\Omega$  analogue output  
**Digital**:  $\varnothing$ 3.5 mm, 4-pole, mini-head jack  
**(GR-SXM58 only)**  
**S-Video**: Y: 1 V (p-p), 75  $\Omega$ , analogue output  
**(GR-SXM58/SXM48/SX24 only)** C: 0.30 V (p-p), 75  $\Omega$ , analogue output

#### AC Adapter

**Power requirement**: AC 110 V — 240 V  $\sim$ , 50 Hz/60 Hz  
**Output**: DC 11 V  $\Rightarrow$ , 1 A

#### Optional Accessories

- Battery Packs BN-V12U, BN-V20U, BN-V400U
- Compact S-VHS (**S VHS**) Cassettes SE-C45/30
- Compact VHS (**VHS**) Cassettes EC-60/45/30
- Active Carrying Bag CB-V7U
- Cassette Adapter C-P7U

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.*

# TABLE OF CONTENTS

DIFFERENT TABLE ..... 1

**5. PARTS LIST (5-1 to 5-5)**

5.1 PACKING AND ACCESSORY ASSEMBLY <M1> ..... 5-1

5.2 FINAL ASSEMBLY <M2> ..... 5-3

The following table indicate main different points between models GR-SX18EG-F, GR-SX23EG-R, GR-SX24EG-X, GR-SX24EG-Z and GR-SX24EK.

ITEM	MODEL	GR-SX18EG-F	GR-SX23EG-R	GR-SX24EG-X	GR-SX24EG-Z	GR-SX24EK
BATTERY PACK		BN-V11U-F	BN-V11U-E	←	←	←
CASSETTE ADAPTER		Not Used	C-P7U	Not Used	←	←
DC LIGHT		Not Used	←	Used	←	←
BODY COLOR		MOLD BLACK	SILVER	←	←	←

The following table indicate different parts number between models GR-SX18EG-F, GR-SX23EG-R, GR-SX24EG-X, GR-SX24EG-Z and GR-SX24EK.

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

REF. NO.	ITEM	MODEL	GR-SX18EG-F	GR-SX23EG-R	GR-SX24EG-X	GR-SX24EG-Z	GR-SX24EK
4	POLY BAG		QPA02003506	←	←	←	YQM30061-3
6	CONNECTOR		PEMC1174	—	PEMC1174	←	←
7	GUARANTY CARD		BT-54008-2	—	—	—	BT-54008-2
8	WARRANTY CARD		—	BT-54013-2	←	←	—
△ 11	AC ADAPTER		LY20847-001B	←	←	←	LY20847-001C
△ 12	POWER CORD		QMPL120-190-JR	←	←	←	QMPP110-190-JR
△ 13	BATTERY PACK		YQ10629F	YQ10629E	←	←	←
16	BATTERY		—	AA(R6)	—	—	—
21	CASSETTE ADAPTER		—	YQ31963B-3	—	—	—
22	POLY BAG		—	YQ43446	—	—	—
23	S CABLE		QAM0004-003	—	QAM0004-003	←	←
26	Q.CARD(JUK)		—	—	—	—	LYT0194-001B

**FINAL ASSEMBLY <M2>**

REF. NO.	ITEM	MODEL	GR-SX18EG-F	GR-SX23EG-R	GR-SX24EG-X	GR-SX24EG-Z	GR-SX24EK
101	CASSETTE COVER(S)ASSY		LY20680-016A	LY20680-021A	LY20680-017A	LY20680-021A	LY20680-017A
101F	STICKER(E)		—	LY43537-001A	—	LY43537-001A	—
103	UPPER CASE(S)		LY10272-017A	LY10272-023A	LY10272-018A	←	←
110	LOWER CASE ASSY		LY20684-020A	←	LY20684-021A	←	←
125	TOP OPERATION UNIT		LY20614-004C	LY20614-014C	LY20614-002C	←	←
135	FRONT COVER ASSY		LY20683-032A	LY20683-030A	LY20683-033A	←	←
135F	COVER(LIGHT)/DC LIGHT		LY30934-021A	LY30934-022A	LY32040-001A	←	←
135G	STICKER(A)		LY32058-001A	←	LY32058-002A	←	←
135H	STICKER(C)		LY32060-005A	←	LY32060-004A	←	←
135J	SPACER(A)		—	—	LY30029-0B4A	←	←
△ 135K	CAUTION LABEL		—	—	YQ44341-6	←	←
139	SCREW		—	*QYSPSTU1725M	*←	*←	*←
140	FRAME ASSY		LY20832-002B	←	LY20832-001B	←	←
140E	CONTACT(LIGHT),X2		—	—	YQ43810-1-1	←	←
140F	E-SI C WIRE C-F		—	—	WJM0259-001A	←	←
142	SCREW		QYSPSPU1720Z(X2)	*QYSPSPU1720Z(X1)	*←	*←	*←

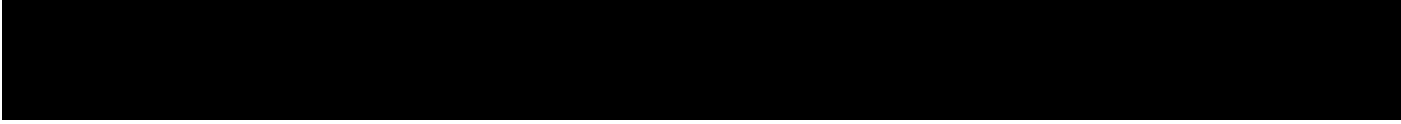
**MAIN BOARD ASSEMBLY <01>**

REF. NO.	ITEM	MODEL	GR-SX18EG-F	GR-SX23EG-R	GR-SX24EG-X	GR-SX24EG-Z	GR-SX24EK
PW1	MAIN BOARD ASSY		YB10356EE1-01	←	YB10356EF1-01	←	←
IC4002	IC		—	—	Z4C2973-32-X	←	←
Q6306	MOS FET		—	—	SSM3K02F	←	←
R4013	MG RESISTOR		—	—	NRSA63J-102X	←	←
R6306	MG RESISTOR		—	—	NRS12BK-R47W	←	←
R6307	MG RESISTOR		—	—	NRSA63J-104X	←	←
C4024	CAPACITOR		—	—	NCF31EZ-104X	←	←
C4044	CAPACITOR		—	—	NCB30JK-105X	←	←
C6307	E CAPACITOR		—	—	NEA71CM-106X	←	←
CN6	CONNECTOR		—	—	QGA1201C2-02X	←	←

Notes : Mark — is not used.

Mark ← is same as left.

Mark \* reference model was also changed.



**JVC**

VICTOR COMPANY OF JAPAN, LIMITED  
VIDEO DIVISION

S40894