JVC

SERVICE MANUAL

COMPACT VHS CAMCORDER

GR-FX12EK





Regarding service information other than these sections, refer to the GR-FX12EG service manual (No.86590). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS

	Camcorder		
General			
Format	: S-VHS (GR-SXM47/SX22 only)/VHS PAL standard	Operating humidity Storage temperature	
Power source	: DC 11 V === (Using AC Adapter) DC 6 V === (Using battery pack)	Weight	: Approx. 900 g (GR-SXM47/FXM37 only) Approx. 730 g (GR-SX22 only) Approx. 720 g (GR-FX12 only)
Power consumption Viewfinder on	: 4.0 W (GR-SXM47/FXM37 only) 3.7 W (GR-SX22/FX12 only)	Dimensions (W x H x D)	: 200 mm x 112 mm x 118 mm (GR-SXM47/FXM37 only) 200 mm x 112 mm x 115 mm (GR-SX22/FX12 only)
LCD monitor on* Video light**	: 4.5 W (GR-SXM47/FXM37 only) : 3.0 W		(with the LCD monitor* closed and with the view- finder full tilted downward)
* Models equipped **GR-SXM47/SX22 of	with LCD monitor only. only.		*Models equipped with LCD monitor only.
Signal system	: PAL-type	Pickup	: 1/4" format CCD
Video recording sys	stem	Lens	: F1.6, f = 3.9 mm to 62.4 mm,
Luminance Colour	FM recording Converted sub-carrier direct recording		16:1 power zoom lens with auto iris and macro control, filter diameter 40.5 mm
Cassette	Conforms to VHS standard : SVHSIP / VHSIP cassette	Viewfinder	: Electronic viewfinder with 0.5" black/white CRT
Tape speed SP	: 23.39 mm/sec.	White balance adjustment	: Auto/Manual adjustment
LP Recording time (ma	: 11.70 mm/sec. x.)	LCD monitor (models equipped with LCD monitor	: 2.5" diagonally measured, LCD panel/TFT active matrix system
SP LP	: 60 minutes : 120 minutes	only) Speaker	: Monaural
Operating temperature	(with EC-60 cassette) : 0°C to 40°C	(models equipped with LCD monitor only)	

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

Connectors JLIP/EDIT : ø3.5 mm, 4-pole, mini-head jack (compatible with RC-5325 plug) Video : 1 V (p-p), 75 Ω unbalanced, analogue output (via Video output connector) Audio : 300 mV (rms), 1 k Ω analogue output (via Audio output connector) S-Video : **Y**: 1 V (p-p), 75 Ω, analogue output $\mathbf{C}: 0.29 \text{ V (p-p)}, 75 \Omega$, (GR-SXM47/SX22 only) analogue output

AC Adapter AP-V10EG

Power requirement : AC 110 V to 240 V ∼, 50 Hz/60 Hz

Output : DC 11 V = 1, 1 A

Dimensions : 59 mm x 31 mm x 84 mm

(W x H x D)

Weight : Approx. 140 g (not including Power Cord)

Optional Accessories

- Battery Packs BN-V11U, BN-V12U, BN-V400U
- Compact S-VHS (SVHSP) Cassettes SE-C45/30
- Compact VHS (VHSIE) 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.

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The following table indicate main different points between models GR-FX12EG and GR-FX12EK.

ITEM MODEL	GR-FX12EG	GR-FX12EK
AC CORD	CEE TYPE	UK TYPE
QUEST CARD	NOT USED	USED

The following table indicate different parts number between models GR-FX12EG and GR-FX12EK.

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

⚠ REF MO.	ITEM MODEL	GR-FX12EG	GR-SX22EA
4	POLY BAG	QPA02003506	YQM30061-3
7	WARRANTY CARD	BT-54013-1	
	GURANTY CARD		BT-54008-2
	POWER CORD	QMPL120-190-JR	QMPP110-190-JR
△ 13	Q.CARD (JUK)		LYT0194-001B

MAIN BOARD ASSEMBLY <01>

↑ REF NO.	ITEM	DEL GR-FX12EG	GR-FX12EK
PW	MAIN BOARD ASSEMBLY	* YB10310EF-04	←
IC101	IC(MICRO C ROM)	* UPD703039-030	←
	IC(MICRO C ROM)	* UPD70F3040-030	←
IC3002	IC	* SN74AHC1G04K-X	←
IC4004	IC	* MM1385NN-X	←
D4001	ZENER DIODE	* UDZS5.1B-X	←
D4002	ZENER DIODE	* UDZS5.1B-X	←
R4011	MG RESISTOR	*	←
R4012	MG RESISTOR	*	←
R4013	MG RESISTOR	*	←
R4014	MG RESISTOR	*	←
R4015	MG RESISTOR	* NRSA63J-103X	←
R4016	MG RESISTOR	* NRSA63J-103X	←
R4017	MG RESISTOR	* NRSA63J-103X	←
R4018	MG RESISTOR	* NRSA63J-103X	←
R4021	MG RESISTOR	* NRSA63J-0R0X	←
R4022	MG RESISTOR	* NRSA63J-0R0X	←
R5205	MG RESISTOR	* NRSA63J-102X	←
R5206	MG RESISTOR	* NRSA63J-102X	←
R5207	MG RESISTOR	* NRSA63J-102X	←
C4052	CAPACITOR	* NCB21CK-105X	←
C4053	CAPACITOR	* NCF31EZ-104X	←
CN4	CONNECTOR,(1-2)L.MTR	* QGA1201F2-06X	←
SD1	SHIELD PLATE	* LY43082-001A	←

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

