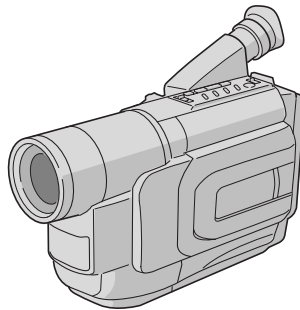


JVC

SERVICE MANUAL

COMPACT VHS CAMCORDER

GR-FX36ED, SX56ED



S VHS VHS
PAL
625
Super VHS
Super VHS ET

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 *(The specifications shown pertain specifically to the model GR-FX36ED, GR-SX56ED)*

Camcorder

General

Format	: S-VHS (GR-SXM86ED/SXM85ED/SXM76ED/SX56ED only)/VHS PAL standard
Power source	: DC 11 V --- (Using AC Adapter) DC 6 V --- (Using battery pack)
Power consumption	
Viewfinder on	: 4.0 W (GR-SXM86ED/SXM85ED/SXM76ED/FXM66ED) 3.7 W (GR-SX56ED/FX36ED)
LCD monitor* on	: 4.5 W (GR-SXM86ED/SXM85ED/SXM76ED/FXM66ED)
Video light**	: 3.0 W
* Models equipped with LCD monitor only.	
** GR-SXM86ED/SXM85ED/SXM76ED/SX56ED only.	
Signal system	: PAL-type
Video recording system	
Luminance	: FM recording
Colour	: Converted sub-carrier direct recording Conforms to VHS standard
Cassette	: S VHS / VHS cassette
Tape speed	
SP	: 23.39 mm/sec.
LP	: 11.70 mm/sec.
Recording time (max.)	
SP	: 60 minutes
LP	: 120 minutes (with EC-60 cassette)
Operating temperature	: 0°C to 40°C
Operating humidity	: 35% to 80%
Storage temperature	: -20°C to 50°C

Weight	: Approx. 910 g (GR-SXM86ED) Approx. 900 g (GR-SXM76ED/FXM66ED) Approx. 890 g (GR-SXM85ED) Approx. 730 g (GR-SX56ED) Approx. 720 g (GR-FX36ED)
Dimensions (W x H x D)	: 200 mm x 112 mm x 118 mm (GR-SXM86ED/SXM85ED/SXM76ED/FXM66ED) 200 mm x 112 mm x 115 mm (GR-SX56ED/FX36ED) (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" colour LCD (GR-SXM85ED) Electronic viewfinder with 0.5" black/white CRT (GR-SXM86ED/SXM76ED/SX56ED/FXM66ED/FX36ED)

White balance adjustment	: Auto/Manual adjustment
LCD monitor (models equipped with LCD monitor only)	: 3" diagonally measured, LCD panel/TFT active matrix system (GR-SXM86ED) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-SXM85ED/SXM76ED/FXM66ED)
Speaker (models equipped with LCD monitor only)	: Monaural

Connectors

JLIP/EDIT	: ϕ 3.5 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 (GR-SXM86ED/SXM85ED/SXM76ED/SX56ED only)	: Y : 1 V (p-p), 75 Ω , analogue output C : 0.29 V (p-p), 75 Ω , analogue output

AC Adapter AP-V10ED

Power requirement	: AC 110 V to 240 V \sim , 50 Hz/60 Hz
Output	: DC 11 V --- , 1 A
Dimensions (W x H x D)	: 59 mm x 31 mm x 84 mm
Weight	: Approx. 140 g (not including Power Cord)

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
- Remote Control Unit RM-V700U
- 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-FX12EG,GR-FX36ED and GR-SX56ED.

ITEM	MODEL	GR-FX12EG	GR-FX36ED	GR-SX56ED
VIDEO LIGHT		NOT USED	←	USED
IR RECEIVER		NOT USED	USED	←
BODY COLOR		MOLD BLACK	SILVER	←
SNAP SHOT		NOT USED	USED(FULL ONLY)	←
NIGHT SCOPE		NOT USED	USED	←
LIGHT SW		NOT USED	←	USED
5 SEC REC SW		USED	NOT USED	←
AC ADAPTER		AP-V10EG	AP-V10ED	←
REMOTE CONTROL UNIT		NOT USED	USED(RM-V716U)	←
CASSETTE ADAPTER		NOT USED	USED	←
S-VIDEO CABLE		NOT USED	←	USED

Note: Mark ← is same as left.

The following table indicate different parts number between models GR-FX12EG,GR-FX36ED and GR-SX56ED.

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

REF NO.	ITEM	MODEL	GR-FX12EG	GR-FX36ED	GR-SX56ED
1	PACKING CASE		LY32179-001A	LY32054-036A	LY32054-034A
7	WARRANTY CARD		BT-54013-1	BT-59011-2	←
△ 9	POWER CORD		QMPL120-190-JR	QMPS120-190-JR	←
△ 10	AC ADAPTER(AP-V10ED)		LY20688-001B	LY20688-009A	←
14	CORE FILTER, X3		QQR0491-002	←	—
	CORE FILTER, X4		—	—	QQR0491-002
15	S CABLE, S-VIDEO CABLE		—	—	QAM0004-003
16	REMOTE CONTROLLER(RM-V716U)		—	LY20543-002A	←
17	BATTERY,AAA(R03)X2		—	USED	←
19	CONNECTOR		PEMC1174	—	—
20	CASSETTE ADAPTER ASSY		—	YQ31963A-3	←
21	BATTERY(R6PY)		—	USED	←
22	CABLE ASSY, EDITING CABLE		—	PEAC0428-150	←
23	GUARANTY CARD		—	BT-59012-1	←

FINAL ASSEMBLY<M2>

REF NO.	ITEM	MODEL	GR-FX12EG	GR-FX36ED	GR-SX56ED
101	LOWER CASE ASSY		LY20684-001B	LY20684-002A	LY20684-004A
104	FRONT COVER ASSY		LY20683-002B	LY20683-004B	LY20683-007B
104E	DC LIGHT		—	—	LY32040-001A
	COVER(LIGHT)		LY30934-015A	LY30934-016A	—
104F	SPACER(A)		—	—	LY30029-0B4A
△ 104H	CAUTION LABEL		—	—	YQ44341-6
105	C.COVER(S) ASSY		* LY20680-002D	LY20680-008D	LY20680-001D
106	UPPER CASE(S)		LY10272-003A	LY10272-004A	LY10272-005A
107	STICKER(A)		LY32058-001A	←	LY32058-002A
108	STICKER(C)		LY32060-001A	←	LY32060-002A
109	TOP OPE UNIT		LY20614-004B	LY20614-006B	LY20614-002B
111	REAR UNIT		LY20615-003A	←	LY20615-002A
114	STICKER(D)		LY32061-003A	←	LY32061-001A
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. Mark *reference model was also changed.

MAIN BOARD ASSEMBLY<01>

△ REF NO.	ITEM	MODEL	GR-FX12EG	GR-FX36ED	GR-SX56ED
PW	MAIN BOARD ASSEMBLY		* YB10310EF-02	YB10310EM-02	YB10310EN-02
IC4002	IC		—	TMS4C2973-28-X	TMS4C2973-28-X
IC1801	IR DETECT UNIT		—	PIC-26043S	←
Q3006	TRANSISTOR		—	—	DTC144EE
Q3505	TRANSISTOR		—	—	DTC144EE
Q4705	TRANSISTOR		—	—	2SC4617/QR/-X
Q4706	TRANSISTOR		—	—	2SC4617/QR/-X
Q4707	TRANSISTOR		—	—	2SC4617/QR/-X
Q4711	PAIR TRANSISTOR		—	—	PUMX1
Q4712	PAIR TRANSISTOR		—	—	PUMT1
Q4713	PAIR TRANSISTOR		—	—	PUMX1
Q4714	PAIR TRANSISTOR		—	—	PUMT1
Q4715	PAIR TRANSISTOR		—	—	HN1C01FU/G/-X
Q6306	MOS FET		—	—	SSM3K02F
D3001	DIODE		—	—	DAN222
D6616	ZENER DIODE		UDZS8.2B	UDZS5.1B	←
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
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
R5203	MG RESISTOR		—	NRSA63J-0R0X	NRSA63J-0R0X
R5204	MG RESISTOR		NRSA63J-0R0X	—	—
R6307	MG RESISTOR		—	—	NRSA63J-104X
R6616	MG RESISTOR		NRSA63J-102X	NRSA63J-222X	←
C3033	CAPACITOR		—	—	NCB31CK-104X
C4040	CAPACITOR		—	NCB21CK-105X	←
C4708	CAPACITOR		—	—	NDC31HJ-820X
C4709	CAPACITOR		—	—	NDC31HJ-150X
C4710	CAPACITOR		—	—	NCB31EK-103X
C4711	CAPACITOR		—	—	NCB21CK-105X
C4715	CAPACITOR		—	—	NCB21CK-105X
C4719	CAPACITOR		—	—	NCB31EK-103X
C6307	E CAPACITOR		—	—	NEA71CM-106X
L6306	COIL		—	—	NQL52EM-470X
J505	S JACK		—	—	QND0068-001

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

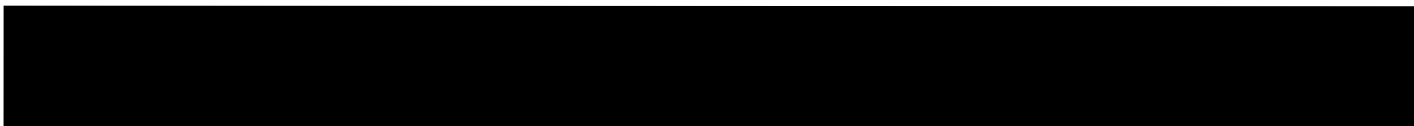
CCD BOARD ASSEMBLY<02>

△ REF NO.	ITEM	MODEL	GR-FX12EG	GR-FX36ED	GR-SX56ED
PW	CCD BOARD ASSEMBLY		YB20899A-01	YB20899D-01	←
R5304	MG RESISTOR		NRSA02J-105X	—	←
C5303	C CAPACITOR		NCB21HK-102X	NCB21HK-222X	←

OPTICAL BLOCK SECTION

△ REF NO.	ITEM	MODEL	GR-FX12EG	GR-FX36ED	GR-SX56ED
257	CCD BASE ASSY		LYH40018-003A	LYH40132-002A	←

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



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VIDEO DIVISION

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