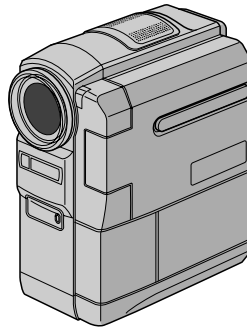


JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DVX509SH



Mini DV PAL

DSC
DIGITAL
STILL CAMERA

The camcorder illustrations appearing in this instruction manual are of the GR-DVX709.

Regarding service information other than these sections, refer to the GR-DVX509ED service manual (No. 86672). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DVX709ED, DVX509ED, DVX400ED, DVX709SH, DVX509SH)*

Camcorder

For General

Power supply	: DC 11.0 V (Using AC Adapter) DC 7.2 V (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 4.5 W (GR-DVX709)/Approx. 3.8 W (GR-DVX509/400)
LCD monitor on, viewfinder off	: Approx. 5.4 W (GR-DVX709)/Approx. 4.7 W (GR-DVX509/400)
Dimensions (W x H x D)	: 54 mm x 113.5 mm x 96 mm (with the LCD monitor closed and the viewfinder pushed back in)
Weight	: Approx. 490 g (GR-DVX709/509) (incl. grip belt) Approx. 480 g (GR-DVX400) (incl. grip belt)
Operating temperature	: 0°C to 40°C
Operating humidity	: 35% to 80%
Storage temperature	: -20°C to 50°C
Pickup	: 1/3.8" CCD (GR-DVX709) 1/4" CCD (GR-DVX509/400)
Lens	: F 1.8, f = 3.8 mm to 38 mm, 10:1 power zoom lens (GR-DVX709) F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens (GR-DVX509/400)
Filter diameter	: ø27 mm
LCD monitor	: 2.5" diagonally measured, LCD panel/TFT active matrix system
Viewfinder	: Electronic viewfinder with 0.44" colour LCD (GR-DVX709) Electronic viewfinder with 0.44" black/white LCD (GR-DVX509/400)
Speaker	: Monaural

For Digital Video Camera

Format	: DV format (SD mode)
Signal format	: PAL standard
Recording/Playback format	: Video : Digital component recording Audio : PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)
Cassette	: Mini DV cassette
Tape speed	: SP: 18.8 mm/s LP: 12.5 mm/s
Maximum recording time (using 80 min. cassette)	: SP: 80 min. LP: 120 min.

For Digital Still Camera (GR-DVX709/509 only)

Storage media	: SD Memory Card/MultiMediaCard
Compression system	: Still image : JPEG (compatible) Moving image* : MPEG4 (compatible)
File size	
Still Image	: 3 modes (1280 x 960 pixels*/1024 x 768 pixels/640 x 480 pixels)
Moving Image*	: 1 mode (160 x 120 pixels)
Picture quality	: 2 modes (FINE/STANDARD)
Approximate number of storable images	: ☞ pg. 50

* GR-DVX709 only

For Connectors

AV

Video output	: 1 V (p-p), 75 Ω , analogue
Video input (GR-DVX709 only)	: 0.8 V (p-p) – 1.2 V (p-p), 75 Ω , analogue
Audio output	: 300 mV (rms), 1 k Ω , analogue, stereo
Audio input (GR-DVX709 only)	: 300 mV (rms), 50 k Ω , analogue, stereo

Headphone output (GR-DVX709 only)

S-VIDEO

Output	: Y: 1 V (p-p), 75 Ω , analogue output C: 0.29 V (p-p), 75 Ω , analogue output
Input (GR-DVX709 only)	: Y: 0.8 V (p-p) – 1.2 V (p-p), 75 Ω , analogue C: 0.2 V (p-p) – 0.4 V (p-p), 75 Ω , analogue

DV

Input/output	: 4-pin, IEEE 1394 compliant
USB (GR-DVX709/509 only)	: 5-pin
EDIT (GR-DVX709/509 only)	: ø3.5 mm, 2-pole
JLIP (GR-DVX400 only)	: ø3.5 mm, 4-pole
PC (GR-DVX400 only)	: ø2.5 mm, 3-pole

AC Adapter

For General

Power requirement	: AC 110 V to 240 V ~ , 50 Hz/60 Hz
Output	: DC 11.0 V \square , 1.0 A

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-DVX509ED and GR-DVX509SH.

ITEM	MODEL	GR-DVX509ED	GR-DVX509SH
AC ADAPTER		AP-V12ED	AP-V12EG

The following table indicate different parts number between models GR-DVX509ED and GR-DVX509SH.

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

REF. NO	ITEM	MODEL	GR-DVX509ED	GR-DVX509SH
10	GUARANTY CARD		BT-59012-1	—
22	AC ADAPTER		LY20847-002B	LY20847-001C
24	POWER CORD		QMPS120-190-JR	QMPL120-190-JR
39	CONVERSION PLUG		—	QAM0001-001
40	POLY BAG		QPA02502505P	QPA02503505P

FINAL ASSEMBLY <M2>

REF. NO	ITEM	MODEL	GR-DVX509ED	GR-DVX509SH
147	SPECER(A)		LY30029-0Z3A	*—
173	SHEET(SHILD)		—	*LY43920-001A
185	ARM ASSY		LY20850-001B	LY20850-001E
203	SPECIAL SCREW,X2		LY30019-026A	*LY30019-026B

ELECTRONIC VIEWFINDER ASSEMBLY <M4>

REF. NO	ITEM	MODEL	GR-DVX509ED	GR-DVX509SH
301	EYE CUP		LY32609-001A	*LY32609-001B
306	HOLDER(VF)		LY32606-001D	*LY32606-001E
307	COVER(VF)		LY43426-001A	*LY43426-001B
315	SPECIAL SCREW,X2		LY30018-063A	*LY30018-021A
316	SHEET		LY43447-001A	*LY43447-001B
322	SHEET(DIFF)		LY43449-001A	*LY43449-001B

Notes : Mark — is not used.
Mark * reference model was also changed.

MONITOR ASSEMBLY <M5>

△ REF. NO	ITEM	MODEL	GR-DVX509ED	GR-DVX509SH
503	MONITOR COVER ASSY		LY32694-001D	*LY32694-001F
503A	BRACKET		LY43497-001A	*LY43497-001B

MAIN BOARD ASSEMBLY <01>

△ REF. NO	ITEM	MODEL	GR-DVX509ED	GR-DVX509SH
PW	MAIN BOARD ASSY		YB10373C-02	YB10373B-05
IC8003	IC(MICRO C ROM)		MBV160TE90PTA33	*MBV160TE90PTA24
C3001	T CAPACITOR		NBE20JM-106X	*NBE80JM-106X
C3007	CAPACITOR		NCB10JK-106X	*NCB10JK-475X-R
C3047	CAPACITOR		—	*NCBA1AK-104W

MDA BOARD ASSEMBLY <02>

△ REF. NO	ITEM	MODEL	GR-DVX509ED	GR-DVX509SH
OT1	SPACER		—	*LY43874-001A

MONITOR BOARD ASSEMBLY <04>

△ REF. NO	ITEM	MODEL	GR-DVX509ED	GR-DVX509SH
PW1	MONITOR BOARD ASSY		YB10381B-01	*YB10381B-02
PW2	M REG BOARD ASSY		—	YB20934A
IC7701	IC		—	*MM1385GN
C7701	CAPACITOR		—	*NCBA1AK-104W
C7702	CAPACITOR		—	NCB31HK-103X
C7703	CAPACITOR		—	*NCB21CK-105X
J7701	THIN WIRE		—	YU40017-030-7
J7702	THIN WIRE		—	YU40017-015-3
J7703	THIN WIRE		—	YU40017-030-1
OT1	SPACER(A)		—	LY30029-0L4A
OT2	SPACER-A		—	LY3016-0P9A

JACK BOARD ASSEMBLY <05>

△ REF. NO	ITEM	MODEL	GR-DVX509ED	GR-DVX509SH
PW1	JACK BOARD ASSY		YB10378D1-01	*YB10378D1-02

STROBE BOARD ASSEMBLY <07>

△ REF. NO	ITEM	MODEL	GR-DVX509ED	GR-DVX509SH
HD1	HOLDER(STB)ASSY		LY43587-001A	*LY43587-001B

B/W VF BOARD ASSEMBLY <09>

△ REF. NO	ITEM	MODEL	GR-DVX509ED	GR-DVX509SH
OT1	SPACER		—	*LY43893-001A

Notes : Mark — is not used.
Mark * reference model was also changed.



VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

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