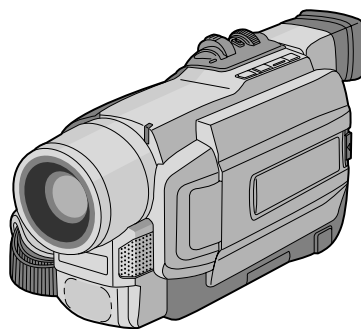


JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DVL510UM, DVL817UM



Mini DV NTSC
DSC
DIGITAL
STILL CAMERA

Regarding service information other than these sections, refer to the GR-DVL510U, DVL817U service manual (No. 86601). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DVL310U/510U/815U/915U)*

Camcorder		For Digital Still Camera (GR-DVL915/DVL815/DVL510 only)	
For General		Storage media : SD Memory Card/MultiMediaCard	
Power supply	: DC 11.0 V \equiv (Using AC Adapter) DC 7.2 V \equiv (Using battery pack)	Compression system	: JPEG (compatible)
Power consumption		File size	: VGA (640 x 480 pixels)
LCD monitor off, viewfinder on	: Approx. 4.3 W	Picture quality	: 2 modes (FINE/STANDARD)
LCD monitor on, viewfinder off	: Approx. 5.3 W	Approximate number of storable images	
Video light	: Approx. 3.5 W	with memory card [8 MB] (provided with GR-DVL510 only)	
Dimensions (W x H x D)	: 83 mm x 97 mm x 188 mm (3-5/16" x 3-7/8" x 7-7/16") (with the LCD monitor closed and the viewfinder pushed down)	FINE	: 100
Weight	: Approx. 610 g (1.4 lbs) (GR-DVL915) Approx. 600 g (1.4 lbs) (GR-DVL815) Approx. 590 g (1.3 lbs) (GR-DVL510/DVL310)	STANDARD	: 200
Operating temperature	: 0°C to 40°C (32°F to 104°F)	with memory card [16 MB] (provided with GR-DVL915/DVL815 only)	
Operating humidity	: 35% to 80%	FINE	: 200
Storage temperature	: -20°C to 50°C (-4°F to 122°F)	STANDARD	: 400
Pickup	: 1/4" CCD	with memory card [32 MB] (optional)	
Lens	: F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens	FINE	: 400
Filter diameter	: ϕ 37 mm	STANDARD	: 800
LCD monitor	: 3.5" diagonally measured, LCD panel/TFT active matrix system (GR-DVL915) 3" diagonally measured, LCD panel/TFT active matrix system (GR-DVL815) 2.5" diagonally measured, LCD panel/TFT active matrix system (GR-DVL510/DVL310)	with memory card [64 MB] (optional)	
Viewfinder	: Electronic viewfinder with 0.44" color LCD (GR-DVL915/DVL815) Electronic viewfinder with 0.24" black/white LCD (GR-DVL510/DVL310)	FINE	: 800
Speaker	: Monaural	STANDARD	: 1600
For Digital Video Camera		For Connectors	
Format	: DV format (SD mode)	S-Video	
Signal format	: NTSC standard	Output	
Recording/Playback format	: Video: Digital component recording Audio: PCM digital recording, 32 kHz 4-channel (12-bit), 48 kHz 2-channel (16-bit)	: Y : 1 V (p-p), 75 Ω , analog C : 0.29 V (p-p), 75 Ω , analog	
Cassette	: Mini DV cassette	Input (GR-DVL915 only)	
Tape speed	: SP: 18.8 mm/s LP: 12.5 mm/s	: Y : 0.8 V (p-p) - 1.2 V (p-p), 75 Ω , analog C : 0.2 V (p-p) - 0.4 V (p-p), 75 Ω , analog	
Maximum recording time (using 80 min. cassette)	: SP: 80 min. LP: 120 min.	AV	
		Video output : 1 V (p-p), 75 Ω , analog	
		Video input (GR-DVL915 only) : 0.8 V (p-p) - 1.2 V (p-p), 75 Ω , analog	
		Audio output : 300 mV (rms), 1 k Ω , analog, stereo	
		Audio input (GR-DVL915 only) : 300 mV (rms), 50 k Ω , analog, stereo	
		DV	
		Output : 4-pin, IEEE 1394 compliant	
		Input : 4-pin, IEEE 1394 compliant	
		USB (GR-DVL915/DVL815/DVL510 only) : 5-pin	
		PC (DIGITAL PHOTO) (GR-DVL310 only) : ϕ 2.5 mm, 3-pole	
		EDIT (GR-DVL915/DVL815/DVL510 only) : ϕ 3.5 mm, 2-pole	
		JLIP (GR-DVL310 only) : ϕ 3.5 mm, 4-pole	
		AC adapter AP-V10U	
		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 \equiv , 1 A	
		Dimensions (W x H x D) : 59 mm x 31 mm x 84 mm (2-3/8" x 1-1/4" x 3-5/16")	
		Weight : Approx. 130 g (0.29 lbs.)	

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-DVL510U and GR-DVL510UM.

ITEM	MODEL	GR-DVL510U	GR-DVL510UM
AC ADAPTER		AP-V10U	AP-V10EN

The following table indicate main different points between models GR-DVL817U and GR-DVL817UM.

ITEM	MODEL	GR-DVL817U	GR-DVL817UM
AC ADAPTER		AP-V10U	AP-V10EN

The following table indicate different parts number between models GR-DVL510U and GR-DVL510UM.

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

REF. NO	ITEM	MODEL	GR-DVL510U	GR-DVL510UM
1	PACKING CASE		LY32095-009A	—
2	CUSHION		LY32096-001A	*LY32345-001A
8	Q.CARD(JCA)		YU10350	—
9	WARRANTY INF.		BT-51005-4	—
10	REGIST.CARD		BT-51020-2	—
11	CD ROM		LY32210-003A	*LY32210-003B
△ 12	AC ADAPTER		LY20739-001A	LY20688-011A
20	POLY BAG		QPGA017-03005	*QPA01703005
25	CORE FILTER		—	QQR0490-002
26	S VIDEO CABLE		—	QAM0004-003
27	MINI DV TAPE		—	M-DV30MEBU
△ 28	POWER CORD		—	QMPS150-190-JR

FINAL ASSEMBLY <M2>

REF. NO	ITEM	MODEL	GR-DVL510U	GR-DVL510UM
101	LOWER CASE ASSY		LY20706-003B	LY20706-011A
101C	COVER(JACK)		LY32099-001B	*LY32099-001C
102	ARM ASSY		LY20697-001A	*LY20697-001C
104	CASS COVER ASSY		LY20704-001A	*LY20704-001B
110	COVER(ZOOM)ASSY		LY32093-001A	*LY32093-001B
115	UPPER CASE(2.5)ASSY		LY20707-004B	LY20707-017A
143	SPECIAL SCREW		LY30018-084A,(X2)	*LY30018-084A,(X1)
146	SPECIAL SCREW		LY30018-084A,(X2)	*LY30018-084A,(X3)
151	SPECIAL SCREW		—	*LY30018-023A
158	SPECIAL SCREW,X2		LY30018-090A	*LY30018-0D6A
160	SPECIAL SCREW		LY30018-006B	*LY30018-047A
196	BKT(OP)ASSY		LY42846-001A	*LY42846-001C

MAIN BOARD ASSEMBLY <01>

REF. NO	ITEM	MODEL	GR-DVL510U	GR-DVL510UM
PW	MAIN BOARD ASSY		YB10317B-03	*YB10317B-05
IC1401	CSP IC ASSY		YQ44881A	*YQ44882A
IC8003	IC(MICRO C ROM)		MBV400TC90PTA09	*MBV400TC90PTA13
R1413	MG RESISTOR		—	*NRSA6AJ-331W
R6014	MG RESISTOR		—	*NRSA63J-0R0X
R8061	MG RESISTOR		—	*NRSA6AJ-473W
X1001	C OSCILLATOR		NAX0424-001X	*NAX0474-001X

MONITOR BOARD ASSEMBLY <02>

REF. NO	ITEM	MODEL	GR-DVL510U	GR-DVL510UM
PW1	MONITOR BOARD ASSY		YB10324H1-03	*YB10326H-01
IC7602	IC		BA15532F	*BA4558F
C7616	CAPACITOR		NCB31HK-102X	*NCB31EK-103X
C7618	CAPACITOR		NCB10JK-106X	*NCB11CK-225X
C7619	CAPACITOR		NCB10JK-106X	*NCB11CK-225X
C7634	CAPACITOR		NCB10JK-106X	*NCB11CK-225X
C7640	CAPACITOR		—	*NCB31EK-103X

Notes : Mark — is not used.

Mark * reference model was also changed.

LCD BL BOARD ASSEMBLY <03>

△ REF. NO	ITEM	MODEL	GR-DVL510U	GR-DVL510UM
PW2	LCD BL BOARD ASSY		YB10324B2-02	*YB10325B

JACK BOARD ASSEMBLY <06>

△ REF. NO	ITEM	MODEL	GR-DVL510U	GR-DVL510UM
PW1	JACK BOARD ASSY		YB10314B1-01	*YB10314B1-03
HD1	HOLDER(J.PWB)		LY32086-001A	*LY32086-001B

The following table indicate different parts number between models GR-DVL817U and GR-DVL817UM.

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

△ REF. NO	ITEM	MODEL	GR-DVL817U	GR-DVL817UM
1	PACKING CASE		LY32095-005A	—
2	CUSHION		LY32096-001A	*LY32345-001A
8	Q.CARD(JCA)		YU10350	—
9	WARRANTY INF.		BT-51005-4	—
10	REGIST.CARD		BT-51020-2	—
11	CD ROM		LY32210-003A	*LY32210-003B
△ 12	AC ADAPTER		LY20739-001A	LY20688-011A
17	REMOTE CONTROL UNIT		LY20543-002A	LY42129-001A
20	POLY BAG		QPGA017-03005	*QPA01703005
25	CORE FILTER		—	QQR0490-002
26	S VIDEO CABLE		—	QAM0004-003
27	MINI DV TAPE		—	M-DV30MEBU
△ 28	POWER CORD		—	QMPS150-190-JR

FINAL ASSEMBLY <M2>

△ REF. NO	ITEM	MODEL	GR-DVL817U	GR-DVL817UM
101	LOWER CASE ASSY		LY20706-003C	LY20706-011A
101C	COVER(JACK)		LY32099-001B	*LY32099-001C
102	ARM ASSY		LY20697-001A	*LY20697-001C
104	CASS.COVER ASSY		LY20704-001A	*LY20704-001B
110	COVER(ZOOM)ASSY		LY32093-001A	*LY32093-001B
115	UPPER CASE(2.5)ASSY		LY20717-002B	LY20717-011A
143	SPECIAL SCREW		LY30018-084A,(X2)	*LY30018-084A,(X1)
146	SPECIAL SCREW		LY30018-084A,(X2)	*LY30018-084A,(X3)
151	SPECIAL SCREW		—	*LY30018-023A
158	SPECIAL SCREW,X2		LY30018-090A	*LY30018-0D6A
160	SPECIAL SCREW		LY30018-006B	*LY30018-047A
196	BKT(OP)ASSY		LY42846-001A	*LY42846-001C

MONITOR ASSEMBLY <M5>

△ REF. NO	ITEM	MODEL	GR-DVL817U	GR-DVL817UM
518	#500SPACER0.01		PU59915-105	*LY30029-0Q6A

MAIN BOARD ASSEMBLY <01>

△ REF. NO	ITEM	MODEL	GR-DVL817U	GR-DVL817UM
PW	MAIN BOARD ASSY		YB10317B-03	*YB10317B-05
IC1401	CSP IC ASSY		YQ44881A	*YQ44882A
IC8003	IC(MICRO C ROM)		MBV400TC90PTA09	*MBV400TC90PTA13
R1413	MG RESISTOR		—	*NRSA6AJ-331W
R6014	MG RESISTOR		—	*NRSA63J-0R0X
R8061	MG RESISTOR		—	*NRSA6AJ-473W
X1001	C OSCILLATOR		NAX0424-001X	*NAX0474-001X

MONITOR BOARD ASSEMBLY <02>

△ REF. NO	ITEM	MODEL	GR-DVL817U	GR-DVL817UM
IC7602	IC		BA15532F	*BA4558F
C7616	CAPACITOR		NCB31HK-102X	*NCB31EK-103X
C7618	CAPACITOR		NCB10JK-106X	*NCB11CK-225X
C7619	CAPACITOR		NCB10JK-106X	*NCB11CK-225X
C7634	CAPACITOR		NCB10JK-106X	*NCB11CK-225X
C7640	CAPACITOR		—	*NCB31EK-103X

JACK BOARD ASSEMBLY <06>

△ REF. NO	ITEM	MODEL	GR-DVL817U	GR-DVL817UM
PW1	JACK BOARD ASSY		YB10314B1-01	*YB10314B1-03
HD1	HOLDER(J.PWB)		LY32086-001A	*LY32086-001B

Notes : Mark — is not used.

Mark : * reference model was also changed.



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VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

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