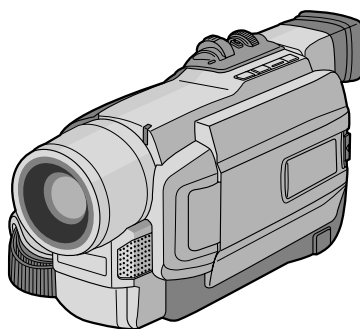


JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DVL315U, DVL317U, DVL517U



Mini **DV** NTSC

Regarding service information other than these sections, refer to the GR-DVL310U, DVL515U service manual (No. 86602).

Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DVL315U)*

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. 4.3 W
LCD monitor on, viewfinder off	: Approx. 5.3 W
Video light	: Approx. 3.5 W
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)
Weight	: Approx. 590 g (1.3 lbs)
Operating temperature	: 0°C to 40°C (32°F to 104°F)
Operating humidity	: 35% to 80%
Storage temperature	: -20°C to 50°C (-4°F to 122°F)
Pickup	: 1/4" CCD
Lens	: F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens
Filter diameter	: ø37 mm
LCD monitor	: 2.5" diagonally measured, LCD panel/TFT active matrix system
Viewfinder	: Electronic viewfinder with 0.44" color LCD
Speaker	: Monaural
For Digital Video Camera	
Format	: DV format (SD mode)
Signal format	: NTSC 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 Connectors	
S-Video	: Y: 1 V (p-p), 75 Ω, analog C: 0.29 V (p-p), 75 Ω, analog
AV	
Video output	: 1 V (p-p), 75 Ω, analog
Audio output	: 300 mV (rms), 1 kΩ, analog, stereo
DV	
Output/input	: 4-pin, IEEE 1394 compliant
PC (DIGITAL PHOTO)	: ø2.5 mm, 3-pole
JLIP	: ø3.5 mm, 4-pole

AC adapter AP-V10U	
Power requirement	
U.S.A. and Canada	: AC 120 V~, 60 Hz
Other countries	: AC 110 V to 240 V~, 50 Hz/60 Hz
Output	: DC 11 V, 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-DVL310U,GR-DVL315U,GR-DVL515U,GR-DVL317U and GR-DVL517U.

ITEM \ MODEL	GR-DVL310U	GR-DVL315U	GR-DVL515U	GR-DVL317U	GR-DVL517U
VIEW FINDER	B/W	COLOR	COLOR	B/W	←
LCD MONITOR	2.5"	←	3"	←	3.5"

The following table indicate different parts number between models GR-DVL310U,GR-DVL315U,GR-DVL515U,GR-DVL317U and GR-DVL517U.

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

REF. NO.	ITEM \ MODEL	GR-DVL310U	GR-DVL315U	GR-DVL515U	GR-DVL317U	GR-DVL517U
1	PACKING CASE	LY32095-007A	LY32095-003A	LY32095-001A	LY32095-004A	LY32095-002A
7	SHEET(AGREMENT)	LYT0378-003A	—	LYT0378-003A	—	LYT0378-003A
11	CD ROM	*LY32210-002A	LY32210-009A	*LY32210-002A	LY32210-009A	←
27	PC CABLE	QAM0084-001	—	QAM0084-001	—	QAM0084-001
28	CORE FILTER	QQR0491-002	—	QQR0491-002	—	QQR0491-002
21	CORE FILTER	—	—	*—	QQR0490-002	QQR0490-002

FINAL ASSEMBLY <M2>

REF. NO.	ITEM \ MODEL	GR-DVL310U	GR-DVL315U	GR-DVL515U	GR-DVL317U	GR-DVL517U
101	LOWER CASE ASSY	LY20706-001B	LY20706-001C	LY20706-001C	←	←
101C	COVER(JACK)	LY32099-001B	LY32099-001C	LY32099-001C	←	←
107	COVER(AJUST)	LY32092-007A	LY32092-003A	LY32092-002A	LY32092-004A	LY32092-001A
115	UPPER CASE3/3.5ASSY	LY20707-001B	←	LY20717-001B	←	LY20717-001C
118	SPEAKER	QAS0048-001	←	QAS0048-001	←	QAS0071-001
136	STICKER(TOP)	LY43093-012A	←	*LY43093-012A	LY43093-008A	←
137	STICKER(SIDE)	*LY43094-003A	LY43094-001A	*LY43094-003A	LY43094-001A	←
143	SPECIAL SCREW	*LY30018-084A,(X2)	LY30018-084A,(X1)	*LY30018-084A,(X2)	LY30018-084A,(X1)	←
151	SPECIAL SCREW	*—	LY30018-023A	*—	LY30018-023A	←

ELECTRONIC VIEWFINDER ASSEMBLY <M4>

REF. NO.	ITEM \ MODEL	GR-DVL310U	GR-DVL315U	GR-DVL515U	GR-DVL317U	GR-DVL517U
300	VF ASSY(UNIT)	LY20744-001B	LY20712-001B	LY20712-001B	LY20744-001B	←
301	EYE PIECE ASSY	PTY20744-001	PTY20712-001	PTY20712-001	PTY20744-001	←
306	LCD ASSY	PTY20744-041	PTY20712-041	PTY20712-041	PTY20744-041	←
307	FPC	QAL0288-001	QAL0287-001	QAL0287-001	QAL0288-001	←
311	SCREW	PTY20744-051	PTY20712-051	PTY20744-051	PTY20712-051	←

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

MONITOR ASSEMBLY <M5>

△ REF. NO.	ITEM	MODEL	GR-DVL310U	GR-DVL315U	GR-DVL515U	GR-DVL317U	GR-DVL517U
△ 500	MONITOR ASSY		LYH20246-007A	LYH20246-002B	LYH20246-003A	LYH20246-001A	LYH20246-004A
502	MONITOR CASE ASSY		LY10264-001A	←	LY20598-001A	←	LY20598-002A
503	HOLDER		LY20674-001A	←	LY20567-001A	←	LY20568-001A
508	BACK LIGHT		QLL0093-001	←	QLL0094-001	←	QLL0081-001
509	LCD MODULE		QLD0154-001	←	QLD0118-001	←	QLD0096-002
510	SPACER(A)		LY30029-063A	—	—	—	—
517	SPACER(A)		—	—	—	—	LY30029-0A5A
518	#500SPACER0.01		—	—	—	—	PU59915-105

MAIN BOARD ASSEMBLY <01>

△ REF. NO.	ITEM	MODEL	GR-DVL310U	GR-DVL315U	GR-DVL515U	GR-DVL317U	GR-DVL517U
PW	MAIN BOARD ASSY		YB10313A-02	YB10313A-04	YB10313A-04	YB10313A-03	YB10313-04
R6124	MG RESISTOR		—	NRSA6AJ-102W	NRSA6AJ-102W	←	←
C1024	CAPACITOR		NDCA1HJ-100W	—	NDCA1HJ-100W	←	←
C1025	CAPACITOR		NDCA1HJ-100W	—	NDCA1HJ-100W	←	←
C6231	CAPACITOR		—	NCBA1CK-103W	NCBA1CK-103W	←	←
X1001	C OSCILLATOR		NAX0424-001X	NAX0474-001X	NAX0424-001X	←	←

MONITOR BOARD ASSEMBLY <02>

△ REF. NO.	ITEM	MODEL	GR-DVL310U	GR-DVL315U	GR-DVL515U	GR-DVL317U	GR-DVL517U
PW1	MONITOR BOARD ASSY		YB10324E1-03	YB10324C1-03	YB10324B1-03	YB10324A1-03	←
Q7101	TRANSISTOR		2SA1774/QR/-X	—	—	2SA1774/QR/-X	—
Q7607	PAIR TRANSISTOR		—	UMZ1N	UMZ1N	—	—
R7101	MG RESISTOR		NRSA63J-562X	—	—	NRSA63J-562X	←
R7102	MG RESISTOR		NRSA63J-562X	—	—	NRSA63J-562X	←
R7103	MG RESISTOR		NRSA63J-103X	—	—	NRSA63J-103X	←
R7110	MG RESISTOR		NRSA63J-0R0X	—	—	NRSA63J-0R0X	←
R7112	MG RESISTOR		NRSA63J-0R0X	—	—	NRSA63J-0R0X	←
R7113	MG RESISTOR		NRSA63J-0R0X	—	—	NRSA63J-0R0X	←
R7114	MG RESISTOR		NRSA63J-0R0X	—	—	NRSA63J-0R0X	←
R7115	MG RESISTOR		NRSA63J-0R0X	—	—	NRSA63J-0R0X	←
R7626	CMF RESISTOR		—	NRVA63D-183X	NRVA63D-183X	—	—
R7627	CMF RESISTOR		—	NRVA63D-334X	NRVA63D-334X	—	—
R7628	MG RESISTOR		—	NRSA63J-224X	NRSA63J-224X	—	—
R7629	MG RESISTOR		—	NRSA63J-393X	NRSA63J-393X	—	—
R7640	MG RESISTOR		—	NRSA63J-0R0X	NRSA63J-0R0X	—	—
R7641	MG RESISTOR		—	NRSA63J-0R0X	NRSA63J-0R0X	—	—
R7642	MG RESISTOR		—	NRSA63J-0R0X	NRSA63J-0R0X	—	—
R7643	MG RESISTOR		—	NRSA63J-0R0X	NRSA63J-0R0X	—	—
R7644	MG RESISTOR		—	NRSA63J-0R0X	NRSA63J-0R0X	—	—
R7645	MG RESISTOR		—	NRSA63J-0R0X	NRSA63J-0R0X	—	—
R7646	MG RESISTOR		—	NRSA63J-0R0X	NRSA63J-0R0X	—	—
C7103	T CAPACITOR		NBE20JM-475X	—	—	NBE20JM-475X	←
C7638	CAPACITOR		—	NCB21AK-225X	NCB21AK-225X	—	—
C7639	T CAPACITOR		—	NBE21AM-106X	NBE21AM-106X	—	—
OT2	SHIELD SHEET		—	—	—	LY43119-001A	←

JACK BOARD ASSEMBLY <06>

△ REF. NO.	ITEM	MODEL	GR-DVL310U	GR-DVL315U	GR-DVL515U	GR-DVL317U	GR-DVL517U
PW	JACK BOARD ASSY		YB10314A1-01	←	YB10314A1-01	YB10314A1-02	←
HD1	HOLDER(J.PWB)		*LY32086-001A	LY32086-001B	*LY32086-001A	LY32086-001B	←
OT2	SPACER-B		—	—	—	LY30017-023A,(X2)	—

Notes : Mark — is not used.

Mark ← is same as left.

Mark * reference model was also changed.

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