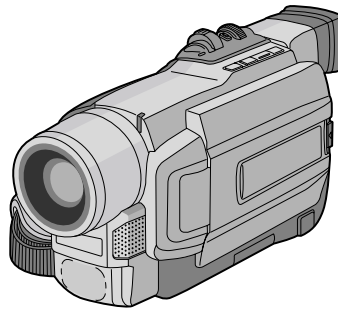


JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DVL313KR,318KR



Mini DV NTSC

Regarding service information other than these sections, refer to the GR-DVL310U service manual (No. 86602) and GR-DVL310U (Additional edition) service manual (No. 86602B). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS (The specifications shown pertain specifically to the model GR-DVL318KR, 817KR)

캠코더

일반사항

전원: DC 11.0V \equiv (AC 전원 어댑터 사용)
DC 7.2 V \equiv (배터리 팩 사용)

소비전력:

LCD 모니터 OFF, 뷰파인더 ON : 약 4.3 W
LCD 모니터 ON, 뷰파인더 OFF : 약 5.3 W
비디오 라이트 : 약 3.5 W
크기 (W x H x D) : 83 mm x 97 mm x 188 mm (3-5/16" x 3-7/8" x 7-7/16")
(LCD 모니터를 접고, 뷰파인더를 내린 상태에서)

무게

: 약 610 g (1.4 lbs)
(GR-DVL817)
: 약 600 g (1.4 lbs)
(GR-DVL318)

작동 온도

: 0°C ~ 40°C (화씨 32 ~ 104도)

작동 습도

: 35% ~ 80%

저장 온도

: -20°C ~ 50°C (화씨 -4 ~ 122도)

픽업

: 1/4" CCD

렌즈

: F 1.8, f = 3.6 mm ~ 36 mm, 10:1 파워 줌 렌즈

필터 직경

: ϕ 37 mm

LCD 모니터

: 3.5" 대각선 측정화면, LCD 패널/TFT active matrix system
(GR-DVL817)
3" 대각선 측정화면, LCD 패널/TFT active matrix system
(GR-DVL318)

뷰파인더

: 0.24" 흑백 LCD 전자식 뷰파인더

스피커

: 모노럴

디지털 비디오 카메라

포맷

: DV 포맷 (SD 모드)

시그널 포맷

: NTSC 표준

녹화/재생 포맷

: 비디오: 디지털 콤포넌트 녹화
: 오디오: PCM 디지털 녹화, 32 kHz 4 채널 (12-bit),
48 kHz 2 채널 (16-bit)

카세트

: Mini DV 카세트

테이프 속도

: SP: 18.8 mm/s

: LP: 12.5 mm/s

최대 녹화 시간

: SP: 80 분

(80분용 카세트 사용시)

: LP: 120 분

디지털 스틸 카메라 (GR-DVL817 에 한함)

저장 매체 : SD 메모리 카드/MultiMedia 카드

압축저장 방식 : JPEG (compatible)

파일 크기 : VGA (640 x 480 픽셀)

화질 : 2 모드 (FINE/STANDARD)

(8 MB)의 메모리 카드에 저장가능한 이미지 수량

(GR-DVL817 에 한함)

FINE : 100

STANDARD : 200

[16 MB]의 메모리 카드일 경우 (옵션)

FINE : 200

STANDARD : 400

[32 MB]의 메모리 카드일 경우 (옵션)

FINE : 400

STANDARD : 800

[64 MB]의 메모리 카드일 경우 (옵션)

FINE : 800

STANDARD : 1600

연결기기

S-VIDEO

출력 : Y: 1 V (p-p), 75 Ω , 아날로그

C: 0.29 V (p-p), 75 Ω , 아날로그

AV

VIDEO 출력 : 1 V (p-p), 75 Ω , 아날로그

AUDIO 출력 : 300mV (rms), 1 k Ω , 아날로그, 스테레오

DV

출력 : 4-pin, IEEE 1394 compliant

입력 : 4-pin, IEEE 1394 compliant

5-pin

USB (GR-DVL 817 에 한함)

PC (DIGITAL PHOTO)

(GR-DVL31 8에 한함)

EDIT (GR-DVL81 7에 한함)

JLIP (GR-DVL31 8에 한함)

: ϕ 2.5 mm, 3-pole

: ϕ 3.5 mm, 2-pole

: ϕ 3.5 mm, 4-pole

AC 전원 어댑터 AP-V10KR

전원 : AC 110 V to 220 V~, 60 Hz

출력 : DC 11 V \equiv , 1 A

크기 (W x H x D) : 59 mm x 31 mm x 84 mm (2-3/8" x 1-1/4" x 3-5/16")

무게 : 약 140g (전원코드 불포함)

예시된 제품사양은 별도로 표시하지 않은한 SP모드일 경우입니다. E & O.E. 디자인과 제품 사양은 사전 통보없이 변경될 수 있습니다.

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The following table indicate main different points between models GR-DVL310U, GR-DVL313KR and GR-DVL318KR.

ITEM \ MODEL	GR-DVL310U	GR-DVL313KR	GR-DVL318KR
VIEW FINDER	B/W	COLOR	B/W
LCD MONITOR	2.5"	←	3"
AC ADAPTER	AP-V10U	AP-V10KR	←

The following table indicate different parts number between models GR-DVL310U, GR-DVL313KR and GR-DVL318KR.

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

△ REF. No.	ITEM \ MODEL	GR-DVL310U	GR-DVL313KR	GR-DVL318KR
1	PACKING CASE	LY32095-007A	←	LY32095-001A
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	LY32210-002A	*LY32210-002B	* ←
△ 12	AC ADAPTER	LY20739-001A	LY20688-010A	←
19	LENS CAP	LY42182-001A	—	—
20	POLY BAG	QPGA017-03005	*QPA01703005	* ←
21	CORE FILTER	—	*QQR0490-002	* ←
23	WARRANTY CARD	—	BT-56010-1	←
△ 24	POWER CORD	—	QMPS130-190-JC	←

FINAL ASSEMBLY <M2>

△ REF. No.	ITEM \ MODEL	GR-DVL310U	GR-DVL313KR	GR-DVL318KR
101	LOWER CASE ASSY	LY20706-001B	*LY20706-001C	* ←
101C	COVER(JACK)	LY32099-001B	*LY32099-001C	* ←
102	ARM ASSY	LY20697-001A	*LY20697-001D	* ←
104	CASSETTE COVER ASSY	LY20704-001A	*LY20704-001B	* ←
107	COVER(AJUST)	LY32092-007A	LY32092-030A	LY32092-042A
108	SPACER(A)	—	*LY30029-0D8A	* ←
110	COVER(ZOOM)ASSY	LY32093-001A	*LY32093-001B	* ←
115	UPPER CASE ASSY	LY20707-001B	*LY20707-001C	LY20717-001C
△ 130	FRONT COVER ASSY	LY20711-001A	*LY20711-001B	* ←
130A	HOOD	LY32111-001A	*LY32111-001B	* ←
136	STICKER(TOP)	LY43093-012A	*LY43093-008A	* ←
137	STICKER(SIDE)	LY43094-003A	*LY43094-001A	* ←
139	CAP(HOOD)ASSY	—	LY43360-002A	←
139A	STRING	—	LY42190-001A	←
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	* ←

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

ELECTRONIC VIEWFINDER ASSEMBLY <M4>

△ REF. No.	ITEM	MODEL	GR-DVL310U	GR-DVL313KR	GR-DVL318KR
300	VF UNIT		LY20744-001B	LY20712-004A	LY20744-004A
301	EYE PIECE ASSY		PTY20744-001	PTY20712-001	PTY20744-001
306	LCD ASSY		PTY20744-041	PTY20712-041	PTY20744-041
307	FPC		QAL0288-001	QAL0287-001	QAL0288-001
311	SCREW		PTY20744-051	PTY20712-051	PTY20744-051
313	LABEL COLOR		—	LY40074-001A	—
314	LABEL(VF)		LY43041-002A	—	—

MONITOR ASSEMBLY <M5>

△ REF. No.	ITEM	MODEL	GR-DVL310U	GR-DVL313KR	GR-DVL318KR
500	MONITOR ASSY		LYH20246-007A	*LYH20246-016A	LYH20246-003A
501	MONITOR COVER ASSY		LY20702-001B	*LY20702-001D	LY20721-001C
501F	SHIELD SHEET		LY40559-001A	*—	*—
501H	WINDOW		LY32087-001B	←	LY32121-001B
501J	EARTH MON		—	—	LY42386-001A
501K	EL(WINDOW)		—	—	LY42193-001A
502	MONITOR CASE		LY10264-001A	←	LY20598-001A
502A	EARTH MON(2)		—	—	LY42388-001A
503	HOLDER		LY20674-001A	←	LY20567-001A
506	SCREW,X2/SPECIAL SCREW,X2		QYSLSP2040D	*LY30018-0F2A	QYSLSP2040D
508	BACK LIGHT		QLL0093-001	←	QLL0094-001
509	LCD MODULE		QLD0154-001	←	QLD0118-001
510	SPACER(A)		LY30029-063A	*—	*—
516	HOLDER(3LCD)		—	—	LY20566-001B

MAIN BOARD ASSEMBLY <01> Note: As for Main board assembly, refer to Additional edition(No.86602B).

△ REF. No.	ITEM	MODEL	GR-DVL310U	GR-DVL313KR	GR-DVL318KR
PW	MAIN BOARD ASSY		YB10330A-01	YB10330E-01	←
IC3002	IC(DIGITAL)		M51V18165D50TSK	*M11L16161A-45T	*←
R1413	MG RESISTOR		—	*NRSA6AJ-331W	*←
R3323	MG RESISTOR		NRSA6AJ-823W	*NRSA6AJ-473W	*←
R6014	MG RESISTOR		—	*NRSA63J-0R0X	*←
X3001	CRYSTAL RESONATOR		NAX0206-001X	*NAX0480-001X	*←

MONITOR BOARD ASSEMBLY <02>

△ REF. No.	ITEM	MODEL	GR-DVL310U	GR-DVL313KR	GR-DVL318KR
PW1	MONITOR BOARD ASSY		YB10324E1-03	YB10326C-02	YB10326A
IC7602	IC		BA15532F	*BA4558F	*←
Q7101	TRANSISTOR		2SA1774/QR/-X	—	2SA1774/QR/-X
Q7605	TRANSISTOR		—	—	DTA144EE
Q7606	TRANSISTOR		—	—	DTC144EE
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
R7111	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
R7604	MG RESISTOR		—	NRSA63J-0R0X	—
R7605	MG RESISTOR		—	NRSA63J-0R0X	—
R7606	MG RESISTOR		—	NRSA63J-0R0X	—
R7612	CMF RESISTOR		NRVA63D-223X	←	NRVA63D-682X
R7621	MG RESISTOR		NRSA63J-0R0X	←	—
R7622	MG RESISTOR		—	—	NRSA63J-223X
R7623	MG RESISTOR		—	—	NRSA63J-223X
R7624	CMF RESISTOR		—	—	NRVA63D-223X
R7625	CMF RESISTOR		—	—	NRVA63D-223X

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

REF. No.	ITEM	MODEL	GR-DVL310U	GR-DVL313KR	GR-DVL318KR
R7626	CMF RESISTOR		—	NRVA63D-183X	—
R7627	CMF RESISTOR		—	NRVA63D-334X	—
R7640	MG RESISTOR		—	NRSA63J-0R0X	—
R7641	MG RESISTOR		—	NRSA63J-0R0X	—
R7642	MG RESISTOR		—	NRSA63J-0R0X	—
R7643	MG RESISTOR		—	NRSA63J-0R0X	—
R7644	MG RESISTOR		—	NRSA63J-0R0X	—
R7645	MG RESISTOR		—	NRSA63J-0R0X	—
R7646	MG RESISTOR		—	NRSA63J-0R0X	—
C7607	T CAPACITOR		NBP41CM-106X	*NBP41DM-106X	*←
C7618	CAPACITOR		NCB10JK-106X	*NCB11CK-225X	*←
C7619	CAPACITOR		NCB10JK-106X	*NCB11CK-225X	*←
C7634	CAPACITOR		NCB10JK-106X	*NCB11CK-225X	*←
C7636	CAPACITOR		—	—	NCF31CZ-104X
C7638	CAPACITOR		—	NCB21AK-225X	—
C7639	T CAPACITOR		—	NBE21AM-106X	—
L7605	COIL		NQL315K-100X	←	—
L7606	COIL		—	—	NQL315K-100X
OT2	SHIELD SHEET		—	—	*LY43119-001A

LCD BL BOARD ASSEMBLY <03>

REF. No.	ITEM	MODEL	GR-DVL310U	GR-DVL313KR	GR-DVL318KR
PW2	LCD BL BOARD ASSY		YB10324B2-02	*YB10325B-01	YB10325A
IC751	IC		—	—	MIP805
Q7501	POW TRANSISTOR/TRANSISTOR		2SC3647/ST/-X	*2SD1664/QR/-W	*←
Q7502	POW TRANSISTOR/TRANSISTOR		2SC3647/ST/-X	*2SD1664/QR/-W	*←
D751	DIODE		—	—	1SS376
R751	MG RESISTOR		—	—	NRSA63J-104X
R7511	MG RESISTOR		—	*NRSA63J-0R0X	*←
C751	T CAPACITOR		—	—	NBE20JM-106X
C752	T CAPACITOR		—	—	NBE20JM-106X
C753	CAPACITOR		—	—	NCB31HK-222X
C754	CAPACITOR		—	—	NCB31HK-222X
C7503	MPPS CAPACITOR/CAPACITOR		NFV41HJ-223X	*NCB31EK-223X	*←
C7505	T CAPACITOR		NBE20JM-226X	*NBE20JM-106X	*←
L751	COIL		—	—	NQLZ011-681X
L752	COIL		—	—	NQL315K-100X
CN754	FPC CONNECTOR		—	—	QGF0505F2-06X
F751	FUSE		—	—	NMFZ007-R20X-K

JACK BOARD ASSEMBLY <06>

REF. No.	ITEM	MODEL	GR-DVL310U	GR-DVL313KR	GR-DVL318KR
PW1	JACK BOARD ASSY		YB10314A1-01	*YB10314A1-03	*←
HD1	HOLDER(J.PWB)		LY32086-001A	*LY32086-001B	*←

Notes : Mark ← is same as left.
Mark — is not used.
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VICTOR COMPANY OF JAPAN, LIMITED
VIDEO DIVISION

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