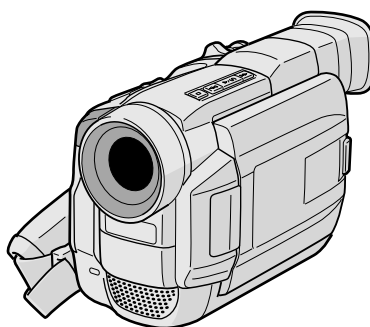


JVC

SERVICE MANUAL

DIGITAL VIDEO CAMERA

GR-DVL400ED/600ED/707ED



Mini DV PAL
DSC
DIGITAL
STILL CAMERA

Regarding service information other than these sections, refer to the GR-DVL200EG service manual (No. 86558). Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DVL707ED)*

Camcorder	
For General	
Power supply	: DC 6.3 V --- (Using AC Power Adapter/Charger) 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)	: 80 mm x 96 mm x 170 mm (with the LCD monitor closed and the viewfinder pushed down)
Weight	: Approx. 580 g
Operating temperature	: 0°C to 40°C
Operating humidity	: 35% to 80%
Storage temperature	: -20°C to 50°C
Pickup	: 1/4" CCD
Lens	: F 1.8, f = 3.6 mm to 36 mm, 10:1 power zoom lens
Filter diameter	: ϕ 37 mm
LCD monitor	: 3.5" diagonally measured, LCD panel/TFT active matrix system
Viewfinder	: Electronic viewfinder with 0.24" black/white LCD
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	
Storage media	: Built-in flash memory, 2 Mbyte
Compression system	: JPEG (compatible)
File size	: VGA: 640 x 480 pixels
Picture quality	: 2 modes (FINE/STANDARD)
Approximate number of storable images	
FINE	: 30
STANDARD	: 60
For Connectors	
S	: Y : 1 V (p-p), 75 Ω , analogue output C : 0.29 V (p-p), 75 Ω , analogue output
AV	
Video output	: 1 V (p-p), 75 Ω , analogue
Audio output	: 300 mV (rms), 1 k Ω , analogue, stereo
DV	
Input/output	: 4-pin, IEEE 1394 compliant
PC (DIGITAL PHOTO)	
Digital still output	: ϕ 2.5 mm, 3-pole
JLIP/EDIT	: ϕ 3.5 mm, 4-pole

AC Power Adapter/Charger AA-V40ED	
Power requirement	: AC 110 V to 240 V \sim , 50 Hz/60 Hz
Power consumption	: 23 W
Output	
Charge	: DC 7.2 V --- , 1.2 A
VTR	: DC 6.3 V --- , 1.8 A
Dimensions (W x H x D)	: 68 mm x 38 mm x 110 mm
Weight	: Approx. 260 g

Specifications shown are for SP mode unless otherwise indicated. E & O.E. Design and specifications subject to change without notice.

TABLE OF CONTENTS

DIFFERENT TABLE 1 to 3

4. CHARTS AND DIAGRAMS

4.1 BOARD INTERCONNECTIONS 4-1

4.2 SYSCON SCHEMATIC DIAGRAM 4-3

4.3 CAMERA DSP SCHEMATIC DIAGRAM 4-4

4.4 MAIN CIRCUIT BOARD 4-5

5. PARTS LIST

5.1 PACKING ASSEMBLY <M1> 5-1

5.2 MONITOR ASSEMBLY <M5> 5-3

The following table indicate main different points between models GR-DVL200EG, DVL400ED, DVL600ED and GR-DVL707ED.

ITEM \ MODEL	GR-DVL200EG	GR-DVL400ED	GR-DVL600ED	GR-DVL707ED
DSC	Used	Not used	←	Used
LCD MONITOR	3.0"	←	3.5"	←
DV	Output only	Input/Output	←	←
ZOOM	100X	450X	←	←
AC POWER ADAPTER CHARGER	AA-V40EG	AA-V40ED	←	←
CONNECTOR,CABLE ADAPTER	Provided	Optional	←	←
S CABLE, S-VIDEO CABLE	Optional	Provided	←	←

Note: Mark ← is same as left.

The following table indicate different parts number between models GR-DVL200EG, DVL400ED, DVL600ED and GR-DVL707ED.

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

REF NO.	ITEM	MODEL	GR-DVL200EG	GR-DVL400ED	GR-DVL600ED	GR-DVL707ED
1	PACKING CASE		LY31631-012A	LY31631-015A	LY31631-027A	LY31631-018A
11	WARRANTY CARD		BT-54013-1	BT-59011-2	←	←
12	CD ROM ASSY		LY31074-012A	LY31133-009A	←	LY31133-011A
△ 29	AC POWER ADAPTER CHARGER		LY20591-003B	LY20591-005B	←	←
30	CORE FILTER		QQR0491-002	-	-	-
31	CONNECTOR,CABLE ADAPTER		PEMC1000-01-02	-	-	-
34	GUARANTY CARD		-	BT-59012-1	←	←
35	S CABLE, S-VIDEO CABLE		-	QAM0004-003	←	←
36	CORE FILTER		-	QQR0491-002	←	←

FINAL ASSEMBLY <M2>

REF NO.	ITEM	MODEL	GR-DVL200EG	GR-DVL400ED	GR-DVL600ED	GR-DVL707ED
△ 101	LOWER CASE ASSY		LY20560-003C	LY20560-004B	←	←
111	UPPER CASE (3) ASSY		LY20550-006C	LY20550-007C	←	LY20550-006C
127	TOP COVER(3)		LY20552-009A	LY20552-012A	LY20552-013A	LY20552-014A
149	KNOB(SLIDE)		LY42168-002A	-	-	LY42168-002A
167	SPECIAL SCREW, X2		LY30018-050A	-	-	LY30018-050A

MONITOR ASSEMBLY <M5>

REF NO.	ITEM	MODEL	GR-DVL200EG	GR-DVL400ED	GR-DVL600ED	GR-DVL707ED
△ 500	MONITOR ASSY		LYH20135-009A	LYH20135-015A	LYH20135-014A	LYH20135-011A
△ 501	MONITOR COVER ASSY		LY20565-007A	LY20565-009B	LY20565-010B	LY20565-011B
501G	WINDOW		LY31621-003A	LY31621-001A	←	LY31621-003A
502	MONITOR CASE ASSY		LY20598-001A	←	LY20598-002A	←
503	HOLDER(3LCD)		LY20566-001A	LY20566-001B	-	-
504	HOLDER(3/3.5PWB)		LY20567-001A	←	LY20568-001A	←
509	BACK LIGHT		QLL0080-001	←	QLL0081-001	←
510	LCD MODULE		QLD0118-001	←	QLD0096-002	←

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

MAIN BOARD ASSEMBLY <01>

REF NO.	ITEM	MODEL	GR-DVL200EG	GR-DVL707ED	GR-DVL400ED/600ED
PW	MAIN BOARD ASSY		YB10277PB-02	YB10277PB-04	YB10277PC-04
SYSCON					
IC1015	IC		TC7W66FK	←	-
R1039	MG RESISTOR		-	-	NRSA6AJ-103W
R1069	MG RESISTOR		NRSA6AJ-0R0W	←	-
R1070	MG RESISTOR		NRSA6AJ-0R0W	←	-
R1078	MG RESISTOR		-	-	NRSA6AJ-103W
R1079	MG RESISTOR		-	-	NRSA6AJ-103W
CAMERA DSP					
R4301	MG RESISTOR		NRSA6AJ-560W	←	-
RA4304	NETWORK RESISTOR		NRZ0034-560W	←	-
RA4305	NETWORK RESISTOR		NRZ0034-560W	←	-
RA4306	NETWORK RESISTOR		NRZ0034-560W	←	-
C4336	CAPACITOR		NDCA1HJ-120W	←	-
OTHER					
CN109	CONNECTOR		QGB0509M1-30X	←	-

MONITOR BOARD ASSEMBLY <02>

REF NO.	ITEM	MODEL	GR-DVL200EG	GR-DVL400ED/600ED	GR-DVL707ED
PW1	MONITOR BOARD ASSY		YB10280J1-02	YB10280M1-02	YB10280J1-02
R7	MG RESISTOR		NRSA63J-392X	-	NRSA63J-392X
SW6	SLIDE SWITCH		NSW0099-001X	-	NSW0099-001X

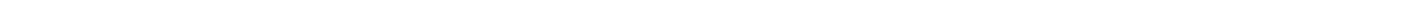
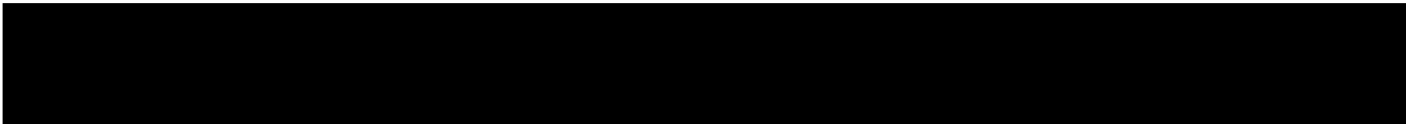
LCD BL BOARD ASSEMBLY <03>

REF NO.	ITEM	MODEL	GR-DVL200EG	GR-DVL400ED	GR-DVL600ED/707ED
PW2	LCD BL BOARD ASSY		YB10280A2-01	←	YB10280B2-01

DSC BOARD ASSEMBLY <10>

REF NO.	ITEM	MODEL	GR-DVL200EG	GR-DVL707ED	GR-DVL400ED/600ED
PW	DSC BOARD ASSY		YB20879B-01	←	-

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



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VIDEO DIVISION

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