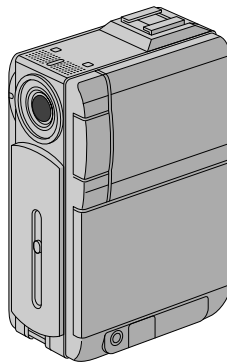


# JVC

## SERVICE MANUAL

### DIGITAL VIDEO CAMERA

# GR-DVP3A-GY/A-SL/EA/ED/SH



Mini DV PAL  
DSC  
DIGITAL  
STILL CAMERA

Regarding service information other than these sections, refer to the GR-DVP3EG service manual (No. 86631). Also, be sure to note important safety precautions provided in the service manual.

### SPECIFICATIONS *(The specifications shown pertain specifically to the model GR-DVP3A-GY/A-GYC/A-SL/EA/ED/SH)*

#### Camcorder

##### For General

Power supply	: DC 6.3 V $\equiv$ (Using AC Power Adapter/Charger) DC 7.2 V $\equiv$ (Using battery pack)
Power consumption	
LCD monitor off, viewfinder on	: Approx. 4.1 W
LCD monitor on, viewfinder off	: Approx. 5.0 W
Dimensions (W x H x D)	: 43 mm x 115 mm x 80 mm (with the LCD monitor closed and the viewfinder pushed back in)
Weight	: Approx. 340 g (without grip belt, battery and cassette) Approx. 410 g (incl. grip belt, battery and cassette)
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 = 3.7 mm to 37 mm, 10:1 power zoom lens (It is not possible to attach any lens filter or conversion lens.)
LCD monitor	: 2" diagonally measured, LCD panel/TFT active matrix system
Viewfinder	: Electronic viewfinder with 0.44" colour 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	: SD Memory Card/MultiMediaCard
Compression system	: Still image : JPEG (compatible) Moving image : MPEG4 (compatible)
File size	: 2 modes (XGA: 1024 x 768 pixels/VGA: 640 x 480 pixels)
Picture quality	: 2 modes (FINE/STANDARD)
Approximate number of storable images (with the provided memory card [8 MB], with Sound Effects pre-stored)	
FINE	: 37 (VGA), 16 (XGA)
STANDARD	: 105 (VGA), 51 (XGA)

For other memory cards, see pg. 17.

##### For Connectors

AV	
Video output	: 1 V (p-p), 75 $\Omega$ , analogue
Audio output	: 300 mV (rms), 1 k $\Omega$ , analogue, stereo
DV	
Input/output	: 4-pin, IEEE 1394 compliant

##### AC power adapter/charger AA-V100A, AA-V100EA, AA-V100ED or AA-V100SH

Power requirement	: AC 110 V to 240 V $\sim$ , 50 Hz/60 Hz
Power consumption	: 23 W
Output	
Charge	: DC 7.2 V $\equiv$ , 1.2 A
VTR	: DC 6.3 V $\equiv$ , 1.8 A
Dimensions (W x H x D)	: 68 mm x 44 mm x 110 mm
Weight	: Approx. 250 g (AA-V100A) Approx. 260 g (AA-V100EA) Approx. 250 g (AA-V100ED) Approx. 325 g (AA-V100SH)

##### Docking Station CU-V507U

##### For General

Dimensions (W x H x D)	: 48.4 mm x 36 mm x 79 mm
Weight	: Approx. 53 g

##### For Connectors

PHONE	
Headphone output	: $\phi$ 3.5 mm, stereo
USB	: TYPE B
S-VIDEO OUT	: Y: 1 V (p-p), 75 $\Omega$ , analogue output C: 0.29 V (p-p), 75 $\Omega$ , analogue output
EDIT	: $\phi$ 3.5 mm, 2-pole

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-DVP3EG, GR-DVP3A-SL, GR-DVP3A-GY, GR-DVP3A-GYC, GR-DVP3EA, GR-DVP3ED and GR-DVP3SH.

ITEM \ MODEL	GR-DVP3EG	GR-DVP3A-SL	GR-DVP3A-GY	GR-DVP3A-GYC	GR-DVP3EA	GR-DVP3ED	GR-DVP3SH
AC POWER ADAPTER CHARGER	AA-V100EG	AA-V100A	AA-V100A-S	←	AA-V100EA	AA-V100ED	AA-V100SH

The following table indicate different parts number between models GR-DVP3EG, GR-DVP3A-SL, GR-DVP3A-GY, GR-DVP3A-GYC, GR-DVP3EA, GR-DVP3ED and GR-DVP3SH.

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

REF. No. \ ITEM \ MODEL	GR-DVP3EG	GR-DVP3A-SL	GR-DVP3A-GY	GR-DVP3A-GYC	GR-DVP3EA	GR-DVP3ED	GR-DVP3SH
1 PACKING CASE	LY32303-001A	LY32303-007A	LY32303-008A	←	LY32303-005A	LY32303-006A	←
4 BATTERY PACK	LY32203-001A	LY32203-003A	LY32203-001A	←	←	LY32203-003A	←
5 AC POWER ADAPTER/CHARGER	LY20754-002B	LY20754-008A	LY20754-009A	←	LY20754-005A	LY20754-006B	LY20754-007A
14 DC CORD	LY32226-001A	LY32226-002A	LY32226-001A	←	←	LY32226-002A	←
24 ADAPTER PLUG	QAM0302-001	—	—	—	—	—	—
25 POLY BAG	QPA02003506	←	←	←	QPA02003006	QPA02003506	←
32 WARRANTY CARD	BT54013-2	—	—	BT-59011-2	BT-56001-2	BT-59011-2	—
35 CONVERSION PLUG	—	PEMC1012-02	PEMC1012	←	—	—	—
36 SHEET(CON.PLUG)	—	LYT0609-001A	←	←	—	—	—
37 GUARANTY CARD	—	—	—	BT-59012-1	—	BT-59012-1	—
38 SER.NET CARD	—	—	—	—	BT-56002-2	—	—

**FINAL ASSEMBLY <M2>**

REF. No. \ ITEM \ MODEL	GR-DVP3EG	GR-DVP3A-SL	GR-DVP3A-GY	GR-DVP3A-GYC	GR-DVP3EA	GR-DVP3ED	GR-DVP3SH
122 SPECIAL SCREW	LY30018-055A	LY30018-070A	LY30018-055A	←	←	LY30018-070A	←
125 UPPER CASE ASSY	LY32292-001E	LY32292-003C	LY32292-001D	←	←	LY32292-003C	←
126 GUIDE(MONI)	LY32265-001C	LY32265-002C	LY32265-001C	←	←	LY32265-002C	←
127 J.COVER(DV)ASSY	LY43126-001D	LY43126-002C	LY43126-001D	←	←	LY43126-002C	←
131 SUB OPE	LY32198-001B	LY32198-003B	LY32198-001B	←	←	LY32198-003B	←
133 SPECIAL SCREW	LY30018-063A	LY30018-0B7A	LY30018-063A	←	←	LY30018-0B7A	←
134 SPECIAL SCREW,X2	LY30018-092A	LY30018-093A	LY30018-092A	←	←	LY30018-093A	←
135 COVER(JIG)ASSY	LY43134-001C	LY43134-002C	LY43134-001C	←	←	LY43134-002C	←
136 SPECIAL SCREW	LY30018-055A	LY30018-070A	LY30018-055A	←	←	LY30018-070A	←
137 SPECIAL SCREW,X2	LY30018-031A	LY30018-032A	LY30018-031A	←	←	LY30018-032A	←
142 SHEET(CAUTION)1	LY41701-004A	LY41701-002A	LY41701-004A	←	←	LY41701-002A	←
143 SHEET(CAUTION)2	LY42163-002B	LY42163-003A	LY42163-002B	←	←	LY42163-003A	←
146 SPECIAL SCREW,X2	LY30018-0E4A	←	←	←	←	←	LY30018-0C3A
150 SPECIAL SCREW,X2	LY30018-055A	LY30018-070A	LY30018-055A	←	←	LY30018-070A	←
151 SPECIAL SCREW	LY30018-055A	LY30018-070A	LY30018-055A	←	←	LY30018-070A	←
152 SPECIAL SCREW	LY30018-065A	LY30018-0A2A	LY30018-065A	←	←	LY30018-0A2A	←
153 SPECIAL SCREW	LY30018-055A	LY30018-070A	LY30018-055A	←	←	LY30018-070A	←
154 SPECIAL SCREW	LY30018-019A	LY30018-026A	LY30018-019A	←	←	LY30018-026A	←
155 SPECIAL SCREW,X2	LY30018-0D5A	LY30018-0D8A	LY30018-0D5A	←	←	LY30018-0D8A	←
185 LOWER CASE	LY20756-001C	LY20756-003A	LY20756-001B	←	←	LY20756-003A	←
197 BRACKET(H.S)	LY32262-001A	←	←	←	LY32262-001B	LY32262-001A	←
205 SPECIAL SCREW	LY30018-055A	←	←	←	←	←	LY30018-070A
206 BOTTOM COVER	LY20760-001F	LY20760-003C	LY20760-001D	←	←	LY20760-003C	←
207 COVER(SD)ASSY	LY32279-003A	LY32279-002B	LY32279-001C	←	LY32279-003A	LY32279-002B	←
208 SPECIAL SCREW,X2	LY30018-081A	LY30018-043B	LY30018-081A	←	←	LY30018-043B	←
213 SPECIAL SCREW	LY30018-0E1A	LY30018-0E2A	LY30018-0E1A	←	←	LY30018-0E2A	←

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

REF. No.	ITEM	MODEL	GR-DVP3EG	GR-DVP3A-SL	GR-DVP3A-GY	GR-DVP3A-GYC	GR-DVP3EA	GR-DVP3ED	GR-DVP3SH
214	SPECIAL SCREW	LY30018-065A	LY30018-065A	LY30018-0A2A	LY30018-065A	←	←	LY30018-0A2A	←
223	SPECIAL SCREW	LY30018-0A3A	LY30018-0A3A	LY30018-060A	LY30018-0A3A	←	←	LY30018-060A	←
225	SPACER(A)	—	—	—	—	←	*LY30029-0R1A	—	—
230	CASSETTE COVER	LY20757-001B	LY20757-002A	LY20757-001B	←	←	LY20757-002A	←	
234	SPECIAL SCREW	LY30018-0E3A	LY30018-006B	LY30018-0E3A	←	←	LY30018-006B	←	
△ 240	CAUTION LABEL/SAFETY LABEL	LY41442-003A	*—	*—	*—	←	LY43149-003A	*—	*—
241	SHEET(C.COVER)	LY43055-001B	←	←	←	←	LY43055-001A	←	
242	OPE.COVER UNIT	LY20749-001C	LY20749-001B	←	←	←	←	←	
243	SPECIAL SCREW,X4	LY30018-065A	LY30018-0A2A	LY30018-065A	←	←	LY30018-0A2A	←	
244	SPECIAL SCREW,X2	LY30018-081A	LY30018-070A	LY30018-081A	←	←	LY30018-070A	←	
250	SPECIAL SCREW	LY30018-0E3A	LY30018-006B	LY30018-0E3A	←	←	LY30018-006B	←	

**MECHANISM ASSEMBLY <M3>**

REF. No.	ITEM	MODEL	GR-DVP3EG	GR-DVP3A-SL	GR-DVP3A-GY	GR-DVP3A-GYC	GR-DVP3EA	GR-DVP3ED	GR-DVP3SH
427	MINI SCREW	YQ43893	*LY43023-001A	*←	*←	*←	*←	*←	*←

**MONITOR ASSEMBLY <M5>**

REF. No.	ITEM	MODEL	GR-DVP3EG	GR-DVP3A-SL	GR-DVP3A-GY	GR-DVP3A-GYC	GR-DVP3EA	GR-DVP3ED	GR-DVP3SH
△ 500	MONITOR ASSY	LYH20289-003B	LYH20289-006A	LYH20289-003B	←	←	LYH20289-006A	←	
501	MONITOR CASE ASSY	LY32263-001E	*LY32263-002D	LY32263-001C	←	←	*LY32263-002D	*←	
△ 502	MONITOR COVER	LY10297-001C	LY10297-003B	LY10297-001C	←	←	LY10297-003B	←	
506	HINGE COVER(U)	LY32267-001A	LY32267-002A	LY32267-001A	←	←	LY32267-002A	←	
507	HINGE COVER(L)	LY32268-001A	LY32268-002A	LY32268-001A	←	←	LY32268-002A	←	
509	SPECIAL SCREW,X2	LY30018-0D3A	LY30018-0D9A	LY30018-0D3A	←	←	LY30018-0D9A	←	
510	SPECIAL SCREW	LY30018-081A	LY30018-043B	LY30018-081A	←	←	LY30018-043B	←	
512	SPECIAL SCREW,X2	LY30018-087A	LY30018-0B7A	LY30018-087A	←	←	LY30018-0B7A	←	

**MAIN BOARD ASSEMBLY <01>**

REF. No.	ITEM	MODEL	GR-DVP3EG	GR-DVP3A-SL	GR-DVP3A-GY	GR-DVP3A-GYC	GR-DVP3EA	GR-DVP3ED	GR-DVP3SH
OT6	SPACER(A)	LY30029-0P9B	*LY30029-0P9A	*←	*←	*←	*←	*←	*←

**BOTTOM BOARD ASSEMBLY <03>**

REF. No.	ITEM	MODEL	GR-DVP3EG	GR-DVP3A-SL	GR-DVP3A-GY	GR-DVP3A-GYC	GR-DVP3EA	GR-DVP3ED	GR-DVP3SH
PW1	BOTTOM BOARD ASSY	YB10329A1-02	*YB10329B1	*←	*←	*←	*←	*←	*←
D2803	ZENER DIODE	—	*EDZ6.8B	*←	*←	*←	*←	*←	*←
D2804	ZENER DIODE	—	*EDZ6.8B	*←	*←	*←	*←	*←	*←
D2805	ZENER DIODE	—	*EDZ6.8B	*←	*←	*←	*←	*←	*←
D2806	ZENER DIODE	—	*EDZ6.8B	*←	*←	*←	*←	*←	*←
D2808	ZENER DIODE	—	*EDZ6.8B	*←	*←	*←	*←	*←	*←
D2809	ZENER DIODE	—	*EDZ6.8B	*←	*←	*←	*←	*←	*←
D2810	ZENER DIODE	—	*EDZ6.8B	*←	*←	*←	*←	*←	*←
D2811	ZENER DIODE	—	*EDZ6.8B	*←	*←	*←	*←	*←	*←
R2811	MG RESISTOR	—	*NRSA6AJ-0R0W	*←	*←	*←	*←	*←	*←
R2813	MG RESISTOR	—	*NRSA6AJ-0R0W	*←	*←	*←	*←	*←	*←
R2819	MG RESISTOR	—	*NRSA6AJ-0R0W	*←	*←	*←	*←	*←	*←
R2820	MG RESISTOR	—	*NRSA6AJ-0R0W	*←	*←	*←	*←	*←	*←
R2821	MG RESISTOR	—	*NRSA6AJ-0R0W	*←	*←	*←	*←	*←	*←
R2822	MG RESISTOR	—	*NRSA6AJ-0R0W	*←	*←	*←	*←	*←	*←
C2805	CAPACITOR	—	*NCBA1AK-104W	*←	*←	*←	*←	*←	*←
C2806	T CAPACITOR	—	*NBLJ0JM-106X	*←	*←	*←	*←	*←	*←

**SECTION 6**

**AC POWER ADAPTER / CHARGER**

**CABINET ASSEMBLY <MA>**

REF. No.	ITEM	MODEL	GR-DVP3EG	GR-DVP3A-SL	GR-DVP3A-GY	GR-DVP3A-GYC	GR-DVP3EA	GR-DVP3ED	GR-DVP3SH
△ 3	AC POWER CORD	YQ10531-006	←	PTY10067-036	←	PTY20080-035	PTY10067-037	YQ10531-006	

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



**JVC**

VICTOR COMPANY OF JAPAN, LIMITED  
VIDEO DIVISION

S40894