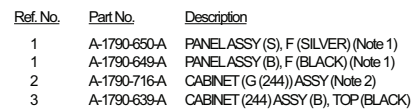
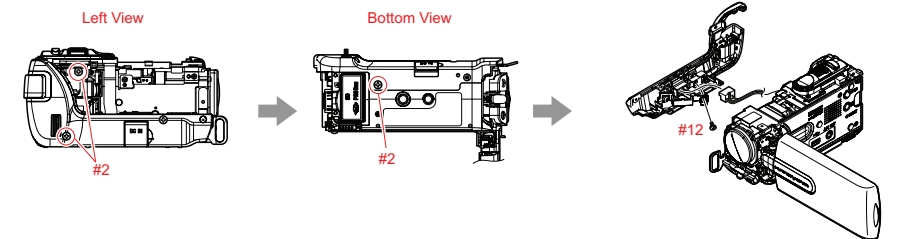


2-1-1. OVERALL SECTION-1

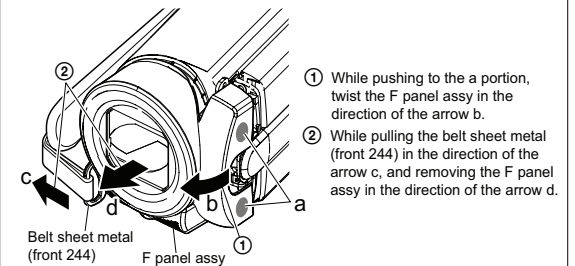


<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
3	A-1790-640-A	CABINET (244) ASSY (S), TOP (SILVER)
#2	2-635-562-31	SCREW (M1.7)
#12	3-080-204-21	SCREW, TAPPING, P2

1. Remove to numerical order (① to ③) in the left figure.

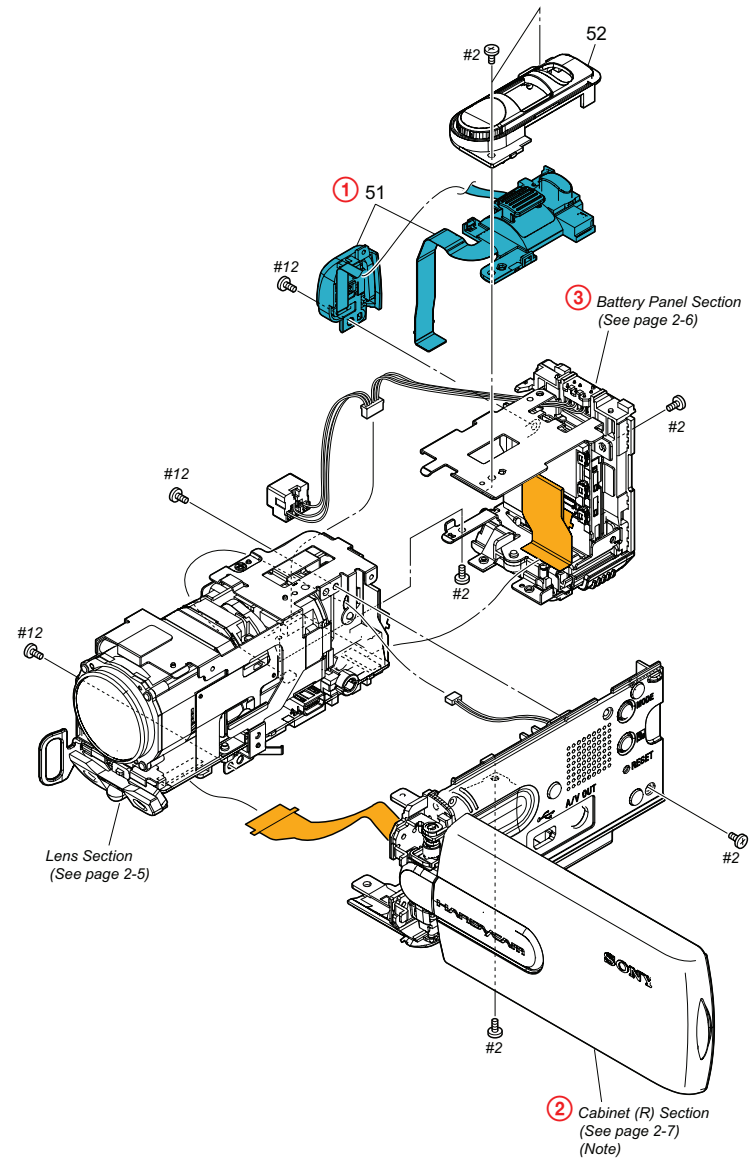


Note 1:
REMOVING METHOD OF F PANEL ASSY



Note 2: Refer to "Assembly-1: Installation Cautions of DC-IN Harness".

2-1-2. OVERALL SECTION-2



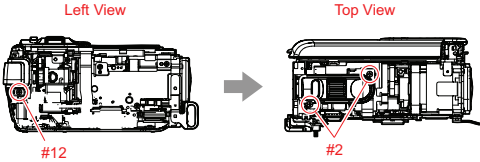
Ref. No.	Part No.	Description
51	1-489-184-11	SWITCH BLOCK, CONTROL (PS24400)
52	4-209-702-01	CABINET (244), PS

Ref. No.	Part No.	Description
#2	2-635-562-31	SCREW (M1.7)
#12	3-080-204-21	SCREW, TAPPING, P2

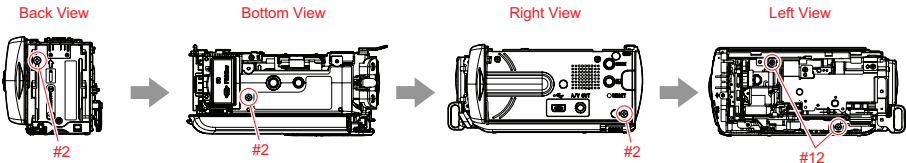
DISASSEMBLY

1. Remove to numerical order (① to ③) in the left figure.

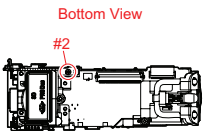
① #12 X 1 → #2 X 2



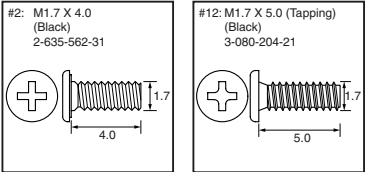
② #2 X 3 → #12 X 2



③ #2 X 1



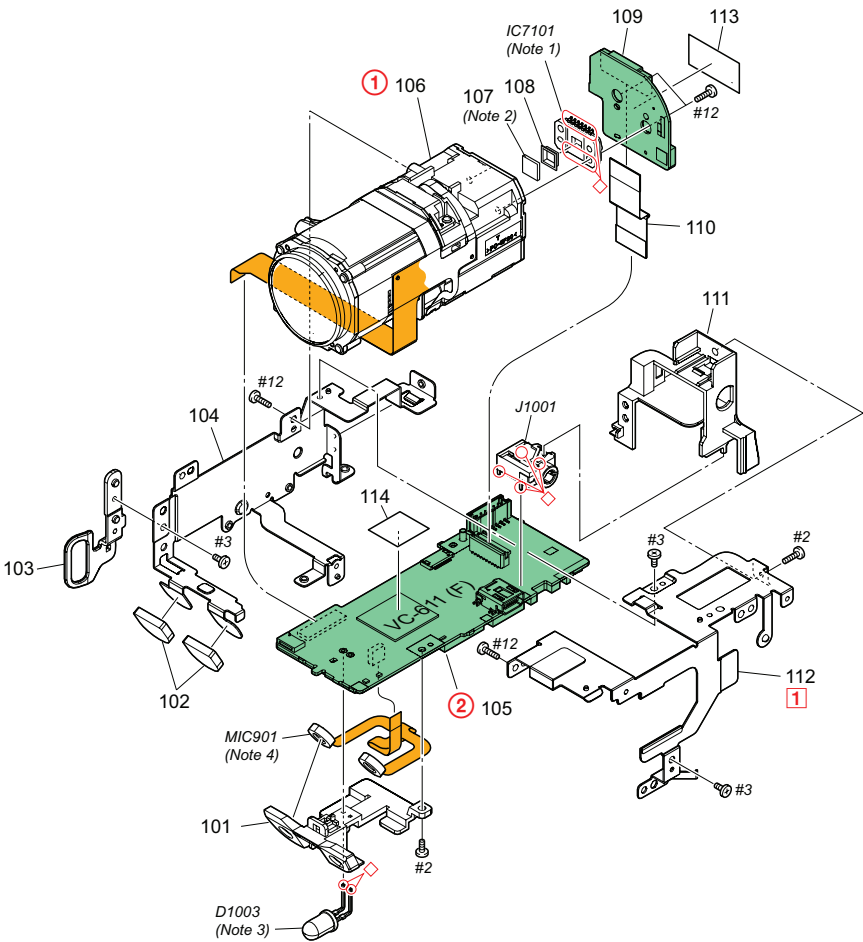
Screw



Note

Note: Refer to "Assembly-2: Installation Cautions of Speaker Harness".

2-1-3. LENS SECTION



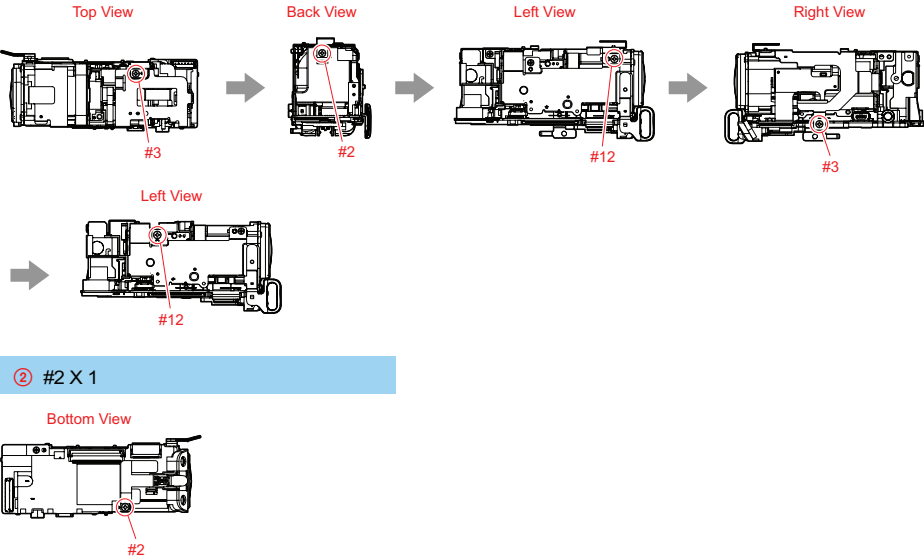
Ref. No.	Part No.	Description
101	4-209-699-01	HOLDER, MICROPHONE
102	4-209-701-01	CUSHION, MICROPHONE
* 103	4-209-705-01	SHEET METAL (FRONT 244), BELT
* 104	4-209-696-01	FRAME, LENS
105	A-1798-497-A	VC-611 (F) BOARD, COMPLETE (SERVICE)
106	1-788-861-11	OPTICAL UNIT (CK001)
107	1-788-870-11	OPTICAL FILTER BLOCK (Note 2)
108	3-878-748-01	RUBBER (1340), SEAL
109	A-1790-893-A	CD-801 BOARD, COMPLETE
110	1-834-809-11	CABLE, FLEXIBLE FLAT (FFC-338)
* 111	4-209-698-01	GUARD, FLEXIBLE

Ref. No.	Part No.	Description
* 112	4-209-697-01	FRAME (R), LENS
113	4-261-923-01	SHEET(CD), WAVE SPHERE SERIES
114	4-261-425-01	SHEET(VCA)
* D1003	6-502-954-01	DIODE NSPL500DS (Note 3)
IC7101	8-753-331-35	ICX691NKF-H (Note 1)
J1001	1-778-040-11	JACK, SMALL TYPE
MIC901	1-542-848-11	MICROPHONE UNIT (Note 4)
#2	2-635-562-31	SCREW (M1.7)
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2
#12	3-080-204-21	SCREW, TAPPING, P2

DISASSEMBLY

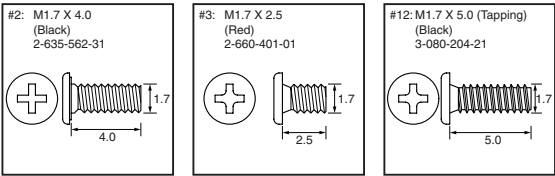
1. Remove to numerical order (① to ②) in the left figure.
2. The meaning of the sign in left figure is as follows. Be careful when it removes.
◇->X: Solder

① #3 X 1 → #2 X 1 → #12 X 1 → #3 X 1 → Lens Frame (R) (①) → #12 X 1



② #2 X 1

Screw



Note

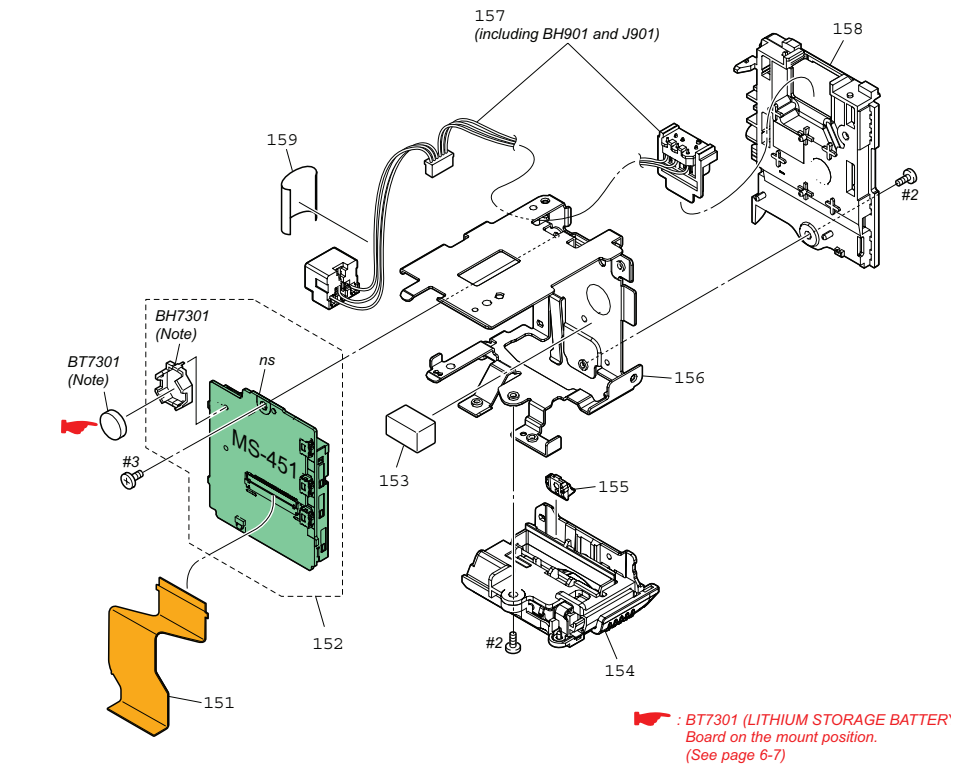
Note 1: Be sure to read "precautions for Replacement of Imager" on page 6-1 when changing the imager.

Note 2: Be sure to read "Assembly-3: How to Distinguish The Side of Optical Filter Block Facing to Lens Device" when changing the optical filter block.

Note 3: Refer to "Assembly-4: Precaution Mounting method of Diode D1003 (LED video light)".

Note 4: Refer to "Assembly-5: Installation Cautions of Mic Unit.".

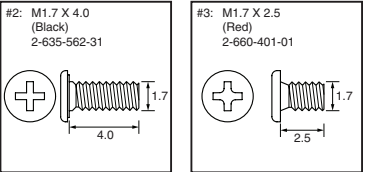
2-1-4. BATTERY PANEL SECTION
ns : not supplied



Ref. No.	Part No.	Description
151	1-882-552-11	FP-1290 FLEXIBLE BOARD
152	A-1790-894-A	MS-451 BOARD, COMPLETE
* 153	4-261-422-01	GASKET, MS
154	A-1790-731-A	MS ASSY
* 155	4-171-818-01	BT RETAINER CLAW
156	4-209-729-01	SHEET METAL (244), BT
△ 157	1-822-470-61	JACK, DC (including BH901 and J901)

Ref. No.	Part No.	Description
158	4-209-728-01	PANEL, BT
159	4-177-124-01	DC, SHIELD SHEET
△ BH7301	1-251-928-21	SOCKET, BATTERY (Note)
△ BT7301	1-756-135-31	BATTERY, LITHIUM (STORAGE) (Note)
#2	2-635-562-31	SCREW (M1.7)
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2

Screw

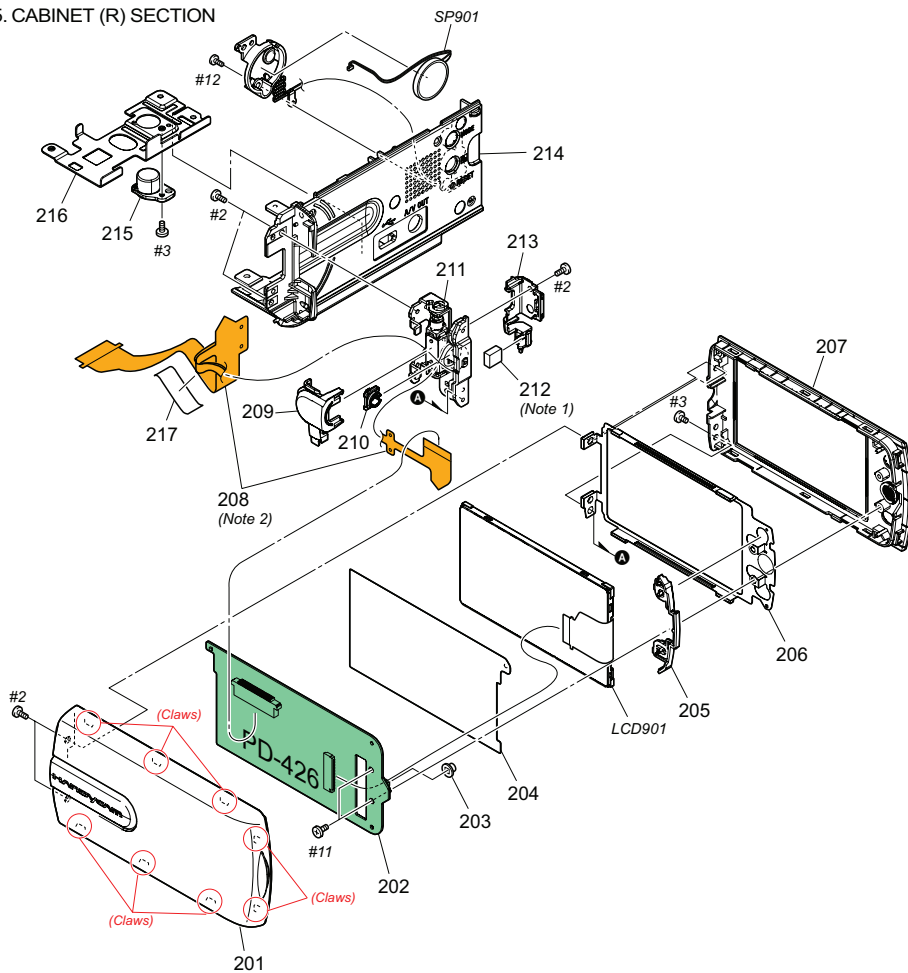


Note

Caution:
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

Note: Replace the battery holder (BH7301) together when replacing the lithium storage battery (BT7301) on the MS-451 board. (The battery holder removed once cannot be used again.)
When mounting these parts, mount new battery holder first and attach new lithium storage battery next.

2-1-5. CABINET (R) SECTION



Ref. No.	Part No.	Description
201	4-209-675-01	CABINET (C), P (SX20/SX20E/SX20EK/SX20K (BLACK))
201	4-209-675-11	CABINET (C), P (SX20/SX20E/SX20EK/SX20K (SILVER))
201	4-209-675-21	CABINET (C), P (SX15E (BLACK))
201	4-209-675-31	CABINET (C), P (SX15E (SILVER))
202	A-1790-895-A	PD-426 BOARD, COMPLETE
203	4-209-715-01	JOYSTICK
* 204	4-209-716-01	INSULATING SHEET, PD
205	4-209-714-01	BUTTON, PLAYBACK
* 206	4-209-713-01	PLATE, P GROUND
207	4-209-711-01	CABINET (M), P
208	1-882-551-11	FP-1289 FLEXIBLE BOARD (Note 2)
* 209	4-209-719-01	COVER (C), HINGE (BLACK)
* 209	4-209-719-11	COVER (C), HINGE (SILVER)
* 210	4-166-451-01	CLAMP, FLEXIBLE
211	X-2549-040-1	HINGE (Y (C)) ASSY, 10TH TYPE

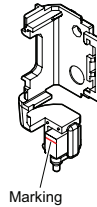
Ref. No.	Part No.	Description
212	1-471-504-11	MAGNET (ND5X3.5X2.4-B) (Note 1)
* 213	4-209-712-01	COVER (M), HINGE
214	A-1790-676-A	CABINET (R (244)) ASSY
215	3-283-643-11	SCREW, TRIPOD
* 216	4-209-704-01	FRAME, BOTTOM
217	4-261-409-01	SHEET, WAVE SPHERE SERIES
LCD901	1-811-218-11	LCD MODULE
SP901	1-858-490-41	SPEAKER (1.3CM)
#2	2-635-562-31	SCREW (M1.7)
#3	2-660-401-01	SCREW (M1.7), NEW TRU-STAR, P2
#11	3-078-890-11	SCREW, TAPPING
#12	3-080-204-21	SCREW, TAPPING, P2

Screw

#2: M1.7 X 4.0 (Black) 2-635-562-31 	#3: M1.7 X 2.5 (Red) 2-660-401-01 	#11: M1.7 X 4.0 (Tapping) (Silver) 3-078-890-11 	#12: M1.7 X 5.0 (Tapping) (Black) 3-080-204-21
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Note

Note 1: Put the marking side together on the position of figure when you install the magnet.



Note 2: Refer to "Assembly-6: The Method of attachment of FP-1289 Flexible Board."

Checking supplied accessories.

Note: This item is supplied with the unit as an accessory, but is not prepared as a service part.



AC Adaptor
(AC-L200C/L200D)
(EXCEPT BR)
* Compatible in
L200C and L200D
△ 1-487-150-71



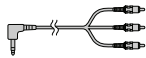
Power cord (Mains lead)
△ 1-783-952-71 (AR)
△ 1-832-121-31 (CH)
△ 1-832-169-41 (UK, E: PAL (Saudi Arabia))
△ 1-834-482-21 (AEP, E: PAL)
△ 1-834-484-31 (CND)
△ 1-834-852-11 (E:NTSC (EXCEPT Latin America), BR)



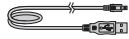
Memory Card (SX20EK, SX20E)
(Note)



Conversion (2P) Adaptor
△ 1-569-007-12 (E:NTSC (EXCEPT Latin America))



A/V connecting cable
1-837-320-11



USB cable
1-835-993-31



Operating Guide
DCR-SX20/SX20K
* 4-209-886-11 (ENGLISH, SPANISH)
4-209-886-21 (ENGLISH, FRENCH)
* 4-209-886-31 (PORTUGUESE)
* 4-209-886-41 (TRADITIONAL CHINESE)



Rechargeable battery pack
(NP-FV30)
△ A-1738-740-A (CND)
△ A-1738-741-A (EXCEPT CND, CH)
△ A-1738-742-A (CH)

Operating Guide
DCR-SX15E/SX20E/SX20EK
4-209-890-11 (ENGLISH)
* 4-209-890-21 (FRENCH, DUTCH, GERMAN, ITALIAN)
* 4-209-890-31 (SPANISH, PORTUGUESE, GREEK, TURKISH)
* 4-209-890-41 (POLISH, CZECH, HUNGARIAN, SLOVAK)
* 4-209-890-51 (DANISH, FINNISH, SWEDISH, ROMANIAN)
* 4-209-890-61 (RUSSIAN, UKRAINIAN)
* 4-209-890-71 (SIMPLIFIED CHINESE) (E:PAL (EXCEPT Middle East))
* 4-209-890-81 (ARABIC, PERSIAN)
* 4-209-890-91 (MALAY)
* 4-209-891-11 (INDONESIAN)
* 4-209-891-21 (THAI)
4-209-892-11 (SIMPLIFIED CHINESE) (CH)



CD-ROM "Handycam
Application Software"
— "PMB" (software) including "PMB Help"
— "Handycam Handbook" (PDF)
4-209-884-01



The CD-ROM supplied contains all of language version of the instruction Manual in pdf (Handycam Handbook.pdf) for printing.
• The printed matter is not supplied. If required, please order it with the part number below.

Handycam Handbook (PDF)

- | | |
|--------------------------------------|-------------------------------------|
| * 4-209-885-11 (ENGLISH) | * 4-209-888-11 (POLISH) |
| * 4-209-885-21 (FRENCH) | * 4-209-888-51 (SWEDISH) |
| * 4-209-885-31 (SPANISH) | * 4-209-888-61 (DANISH) |
| * 4-209-885-41 (PORTUGUESE) | * 4-209-888-71 (FINNISH) |
| * 4-209-885-51 (TRADITIONAL CHINESE) | * 4-209-888-81 (ROMANIAN) |
| * 4-209-887-11 (ENGLISH) | * 4-209-888-91 (RUSSIAN) |
| * 4-209-887-21 (FRENCH) | * 4-209-889-11 (UKRAINIAN) |
| * 4-209-887-31 (GERMAN) | * 4-209-889-21 (SIMPLIFIED CHINESE) |
| * 4-209-887-41 (ITALIAN) | * 4-209-889-31 (ARABIC) |
| * 4-209-887-51 (DUTCH) | * 4-209-889-41 (PERSIAN) |
| * 4-209-887-61 (SPANISH) | * 4-209-889-51 (MALAY) |
| * 4-209-887-71 (PORTUGUESE) | * 4-209-889-61 (INDONESIAN) |
| * 4-209-887-81 (TURKISH) | * 4-209-889-71 (THAI) |
| * 4-209-887-91 (GREEK) | |
| * 4-209-888-11 (CZECH) | |
| * 4-209-888-21 (HUNGARIAN) | |
| * 4-209-888-31 (SLOVAK) | |

2-2. ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	A-1790-893-A	CD-801 BOARD, COMPLETE *****
		< CAPACITOR >
C7101	1-127-820-11	CERAMIC CHIP 4.7uF 10% 16V
C7103	1-100-567-81	CERAMIC CHIP 0.01uF 10% 25V
C7104	1-127-820-11	CERAMIC CHIP 4.7uF 10% 16V
C7108	1-100-597-91	CERAMIC CHIP 0.1uF 10% 25V
		< CONNECTOR >
CN7101	1-691-358-51	CONNECTOR, FFC/FPC (ZIF) 20P
		< COIL >
* L7101	1-481-425-21	INDUCTOR 10uH
		< TRANSISTOR >
* Q7101	6-552-619-01	TRANSISTOR DSC5G0200L
		< RESISTOR >
R7101	1-218-959-11	METAL CHIP 3.3K 5% 1/16W

	1-882-551-11	FP-1289 FLEXIBLE BOARD *****

	1-882-552-11	FP-1290 FLEXIBLE BOARD *****

	A-1790-894-A	MS-451 BOARD, COMPLETE *****
(BT7301 is not included in MS-428 complete board.)		
		< BATTERY >
△ BT7301	1-756-135-31	BATTERY, LITHIUM (STORAGE) (Note)
		< BATTERY HOLDER >
△ BH7301	1-251-928-21	SOCKET, BATTERY (Note)
		< CAPACITOR >
* C7303	1-114-582-11	CERAMIC CHIP 0.1uF 10% 16V
C7305	1-112-717-91	CERAMIC CHIP 1uF 10% 6.3V
C7306	1-112-717-91	CERAMIC CHIP 1uF 10% 6.3V
		< CONNECTOR >
CN7301	1-821-500-11	CONNECTOR, FPC (ZIF) 45P
CN7302	1-822-837-21	CARD CONNECTOR
		< DIODE >
D7301	6-501-216-01	DIODE CL-271HR-C-TS
		< FERRITE BEAD >
FB7301	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7302	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)

Ref. No.	Part No.	Description
FB7303	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7304	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7305	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7306	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7307	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7308	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
FB7309	1-469-580-21	INDUCTOR, FERRITE BEAD (1005)
		< IC >
* IC7301	6-714-502-01	IC BD2224G-TR
* IC7302	6-714-502-01	IC BD2224G-TR
		< RESISTOR >
R7316	1-218-941-81	METAL CHIP 100 5% 1/16W
R7319	1-218-954-11	METAL CHIP 1.2K 5% 1/16W
R7321	1-218-953-11	METAL CHIP 1K 5% 1/16W
R7322	1-218-965-11	METAL CHIP 10K 5% 1/16W
R7323	1-218-947-11	METAL CHIP 330 5% 1/16W
		< COMPOSITION CIRCUIT BLOCK >
RB7301	1-234-372-11	RES, NETWORK 100 (1005X4)
RB7302	1-234-372-11	RES, NETWORK 100 (1005X4)
* RB7303	1-234-723-21	RES, NETWORK 75 (1005X4)
		< SWITCH >
S7301	1-798-119-11	SWITCH, TACTILE
S7302	1-798-119-11	SWITCH, TACTILE
S7303	1-798-119-11	SWITCH, TACTILE

	A-1790-895-A	PD-426 BOARD, COMPLETE *****
(SE6401 is not supplied, but this is included in PD-426 COMPLETE BOARD.)		
		< CAPACITOR >
* C6403	1-114-582-11	CERAMIC CHIP 0.1uF 10% 16V
C6404	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C6405	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C6408	1-127-861-11	CERAMIC CHIP 2.2uF 10% 16V
C6409	1-125-889-11	CERAMIC CHIP 2.2uF 10% 10V
C6412	1-125-889-11	CERAMIC CHIP 2.2uF 10% 10V
C6414	1-125-889-11	CERAMIC CHIP 2.2uF 10% 10V
C6415	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C6420	1-100-591-91	CERAMIC CHIP 1uF 10% 25V
C6421	1-165-908-11	CERAMIC CHIP 1uF 10% 10V
C6422	1-100-591-91	CERAMIC CHIP 1uF 10% 25V
C6423	1-125-889-11	CERAMIC CHIP 2.2uF 10% 10V
C6424	1-100-591-91	CERAMIC CHIP 1uF 10% 25V
C6425	1-100-591-91	CERAMIC CHIP 1uF 10% 25V
		< CONNECTOR >
* CN6401	1-818-072-61	CONNECTOR, FFC/FPC (ZIF) 30P
* CN6402	1-821-503-11	CONNECTOR, FPC (ZIF) 39P
		< COIL >
* L6402	1-481-102-21	INDUCTOR 10uH

Ref. No.	Part No.	Description
		< RESISTOR >
R6402	1-218-953-11	METAL CHIP 1K 5% 1/16W
R6403	1-218-953-11	METAL CHIP 1K 5% 1/16W
R6404	1-218-953-11	METAL CHIP 1K 5% 1/16W
R6414	1-218-954-11	METAL CHIP 1.2K 5% 1/16W
R6415	1-218-960-11	METAL CHIP 3.9K 5% 1/16W
R6416	1-218-964-11	METAL CHIP 8.2K 5% 1/16W
R6417	1-218-970-11	METAL CHIP 27K 5% 1/16W
R6418	1-218-977-11	METAL CHIP 100K 5% 1/16W
R6429	1-216-864-91	SHORT CHIP 0
R6436	1-216-864-91	SHORT CHIP 0
R6437	1-216-864-91	SHORT CHIP 0
		< COMPOSITION CIRCUIT BLOCK >
RB6403	1-234-388-21	RES, NETWORK 1.5K (1005X4)
		< SWITCH >
* S6401	1-798-346-11	SWITCH, TACTILE
* S6402	1-786-914-51	SWITCH, TACTILE
* S6403	1-786-914-51	SWITCH, TACTILE
		< SENSOR >
SE6401	(Not supplied)	GMR SENSOR

Caution
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

Note : Replace the battery socket (BH7301) together when replacing the lithium storage battery (BT7301) on the MS-451 board. (The battery socket removed once cannot be used again.) When mounting these parts, mount new battery first and attach new lithium battery next.

Please refer to LEVEL 3 about the ELECTRICAL PARTS LIST of VC-611 (F).