

DCR-VX2100/VX2100E

RMT-811

SERVICE MANUAL

LEVEL 3

Ver 1.0 2003.10

Revision History

How to use
Acrobat Reader



Photo : DCR-VX2100

US Model
Canadian Model
Korea Model
DCR-VX2100
AEP Model
UK Model
Australian Model
Chinese Model
DCR-VX2100E
E Model
Hong Kong Model
Tourist Model
DCR-VX2100/VX2100E
C MECHANISM

Link

• SCHEMATIC DIAGRAMS

• PRINTED WIRING BOARDS

• REPAIR PARTS LIST

- For INSTRUCTION MANUAL, refer to SERVICE MANUAL, LEVEL 1 (987628841.pdf).

The information that is not described in this Service Manual is described in the LEVEL 2 Service Manual.
When repairing, use this manual together with LEVEL 2 Service Manual.

Contents of LEVEL 2 Service Manual

1. SERVICE NOTE	
2. DISASSEMBLY	
3. BLOCK DIAGRAMS	OVERALL POWER
4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS	CD-512, JK-267, CK-140, PD-217, LA-028, SE-147, KP-013, MK-016, MS-209, FK-088, FT-092, MI-050, LB-100, HL-013, MA-430, DD-216, ZM-030, RM-091 BOARD, FP-188, FP-189, FP-194, FP-196 FLEXIBLE
5. ADJUSTMENTS	
6. REPAIR PARTS LIST	EXPLODED VIEWS
	ELECTRICAL PARTS LIST

Mini DV Digital Video Cassette

DIGITAL VIDEO CAMERA RECORDER

SONY®



HANDYCAM

C// Cassette Memory



InfoLITHIUM™



CAUTION :

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

**ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!**

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
 - Keep the temperature of the soldering iron around 270°C during repairing.
 - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
 - Be careful not to apply force on the conductor when soldering or unsoldering.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)



: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
Soldering irons using a temperature regulator should be set to about 350°C.
Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

4-2. SCHEMATIC DIAGRAMS

Link

VC-358 BOARD (1/18) (S/H AGC, TG)	VC-358 BOARD (11/18) (RGB DRIVE/TG)
VC-358 BOARD (2/18) (CAMERA SIGNAL PROCESS)	VC-358 BOARD (12/18) (CAMERA CONTROL)
VC-358 BOARD (3/18) (MS I/F)	VC-358 BOARD (13/18) (MECHANISM CONTROL)
VC-358 BOARD (4/18) (RS 232C I/F, STILL CONTROL)	VC-358 BOARD (14/18) (DRUM/CAPSTAN MOTOR DRIVE)
VC-358 BOARD (5/18) (MS DRIVE)	FP-594 FLEXIBLE BOARD (LOADING MOTOR, S/T REEL SENSOR)
VC-358 BOARD (6/18) (DV SIGNAL PROCESS)	VC-358 BOARD (15/18) (HI CONTROL)
VC-358 BOARD (7/18) (DV INTERFACE)	VC-358 BOARD (16/18) (AU LINE A/D, D/A)
VC-358 BOARD (8/18) (REC/PB AMP)	VC-358 BOARD (17/18) (LINE AMP)
VC-358 BOARD (9/18) (LINE IN/OUT)	VC-358 BOARD (18/18) (CONNECTOR)
VC-358 BOARD (10/18) (LINE A/D)	

COMMON NOTE FOR SCHEMATIC DIAGRAMS	WAVEFORMS
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