

**SONY®**

DIGITAL BETACAM CAMCORDER

**DVW-707/707P**

**DVW-709WS/709WSP**

**DVW-790WS/790WSP**

SDI OUTPUT BOARD

**BKDW-702**

PICTURE CACHE BOARD

**BKDW-703**

IMAGE INVERTER BOARD

**BKDW-704**

**Digital BETACAM™**

**Power HAD**

MAINTENANCE MANUAL Part 1

1st Edition (Revised 1)

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# Manual Structure

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## Purpose of this manual

This manual is the Maintenance Manual Part 1 of the following models:

Digital Camcorder	DVW-790WS/709WS/707, DVW-790WSP/709WSP/707P
Sony SDI Output Board	BKDW-702
Sony Picture Cache Board	BKDW-703
Sony Image Inverter Board	BKDW-704 (For DVW-790WS/790WSP/709WS/ 709WSP only)

This manual is intended for use by trained system and service engineers, and provides the information that is required to the primary services, maintenance of this unit and installation of the optional boards (BKDW-702/703/704) .

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## Contents

This manual is organized by the following sections:

### **Section 1 Service Overview**

Explains the locations of main parts, the functions of printed circuit boards, the removal and reinstallation of cabinet, and the measures against troubles.

### **Section 2 Diagnostics**

Explains the error messages and self-diagnostics.

### **Section 3 Setup Menu**

Explains the setup menu (engineering mode) and VTR (DIAG) menu of this unit.

### **Section 4 Camera System Electrical Alignment (Only for DVW-790WS/790WSP/709WS/709WSP)**

Explains the electrical adjustments after installing/replacing the lens to/of the DVW-790WS/790WSP/709WS/709WSP.

### **Section 5 Camera System Electrical Alignment (Only for DVW-707/707P)**

Explains the electrical adjustments after installing/replacing the lens to/of the DVW-707/707P.

### **Section 6 Block Diagrams and Circuit Description**

Describes the overall block diagrams and circuit description.

### **Section 7 Periodic Maintenance and Inspection**

Explains the cleaning procedures and periodic checks.

## **Section 8 Spare Parts**

Describes the notes on spare parts and list of parts which need the periodic maintenance.

## **Section 9 Optional Boards Installation**

Explains the installation procedure of optional boards (BKDW-702/703/704) to this unit.

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## **Related manuals**

Besides this “Maintenance Manual Part 1”, the following manuals are available for this unit:

- **Operation Manual (Supplied with this unit)**

This manual is necessary for application and operation of this unit.

- **Maintenance Manual Part 2 (available on request)**

Volume-1 : Service Instructions

Volume-2 : Parts List and Diagrams

These manuals describe the information that premises the parts level service (adjustments, board layouts, schematic diagrams, detailed parts list, etc.) for this unit.

If these manuals are required, contact your local Sony Sales Office/Service Center.

- **BVF-V10/V10CE or BVF-V20W/V20WCE  
Maintenance Manual (available on request)**

This manual describes the service information of the supplied viewfinder.

If this manual is required, contact your local Sony Sales Office/Service Center.