

SONY®

HD ELECTRONIC VIEWFINDER

CBK-VF01

MAINTENANCE MANUAL

1st Edition

警告

このマニュアルは、サービス専用です。
お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、
人身事故につながる可能性があります。
危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that
contained in the operating instructions unless you are qualified to do so. Refer all servicing to
qualified service personnel.

WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die
Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei
Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben
Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung
dazu besitzen.

AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin
de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les
réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres.
Pour toute réparation faire appel à une personne compétente uniquement.

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Manual Structure

Purpose of this manual

This manual describes the information items that premise the service based on the components parts assuming use of system and service engineers.

Related manuals

The following manuals are available in this model.

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

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

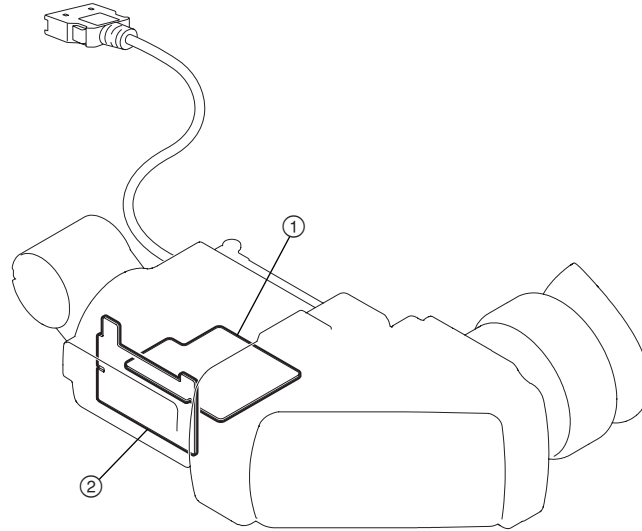
This manual is necessary for application and operation of this unit.

Section 1

Service Overview

1-1. Location of Printed Circuit Boards

- ① IF-1125
- ② SW-1472



1-2. Circuit Description

The CBK-VF01 HD Electronic Viewfinder is a 3.5-inch LCD color viewfinder.

This unit consists of the following boards, and this circuit description describes the IF-1125 board and SW-1472 board.

- IF-1125 board
- IF-1127 board (included in 3.5-inch LCD assembly)
- SW-1472 board

1. IF-1125 Board

As the main board of this unit, the IF-1125 board has functions for VF_ON signal output to notify the camcorder of viewfinder connection, digital video signal (LVDS) decoding, reading of switch/potentiometer information on the SW-1472 board by the sub-microcomputer, communication with the camcorder, and generation of power voltages necessary in this unit.

Communication with the camcorder is performed with the cable connected to CN1000.

The VF_ON signal changes from low to high level when this unit is powered on, which is controlled by IC1000 independently of other signals.

The digital video (LVDS) signal encoded in the camcorder inside is decoded into Y/C (10 bits each) signal and sync signal by IC1002, serial control signal, reset signal, and TALLY lighting control signal. The decoded signals are level-converted by IC2000, IC2001, and IC2002, and are then connected from CN2000 to the color LCD module with the 40-pin fine-wire coaxial cable.

IC1002 starts operating when reset is canceled by IC1001. IC1001 is controlled independently after power-on.

The sub-microcomputer reads information of the switches and potentiometers on the SW-1472 board, and then sends the status information to the sub-microcomputer in the camcorder inside through the I²C bus.

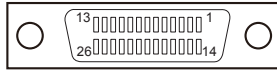
IC4000 in the power supply circuit steps down the UNREG power voltage supplied from the cable to +5 V. IC4002 steps down the +5 V to +3 V, and IC4001 generates +1.8 V from the +3 V. Voltages +5 V, +3 V, and +1.8 V are used in this board.

2. SW-1472 Board

The SW-1472 board contains a display reverse function switch, a ZEBRA ON/OFF switch, a DISPLAY ON/OFF switch, a TALLY brightness switch, and PEAKING, CONTRAST, and BRIGHT potentiometers. Setting information other than TALLY brightness is sent from the sub-microcomputer on the IF-1125 board to the camcorder and is reflected in the viewfinder output display. The lighting brightness of TALLY LEDs (D5000 to D5003) is changed by switching ON/OFF of the limiting resistors on the SW-1472 board.

1-3. Connector Input/Output Signals

VF (LCD) : Rectangular, 26-pin



(External View)

No.	Signal	I/O
1	SHIELD_GND	–
2	LVDS_1–	OUT
3	LVDS_2–	OUT
4	LVDS_3–	OUT
5	LVDS_CLK–	OUT
6	LVDS_4–	OUT
7	LVDS_5–	OUT
8	VF_ON	IN
9	SDAT	I/O
10	UNREG	OUT
11	UNREG	OUT
12	GND	–
13	GND	–
14	GND	–
15	LVDS_1+	OUT
16	LVDS_2+	OUT
17	LVDS_3+	OUT
18	LVDS_CLK+	OUT
19	LVDS_4+	OUT
20	LVDS_5+	OUT
21	SRX	OUT
22	SCLK	OUT
23	UNREG	OUT
24	UNREG	OUT
25	GND	–
26	SHIELD_GND	–

1-4. Replacing the Coaxial Cable with Connector (Fine Pitch Coaxial Cable)

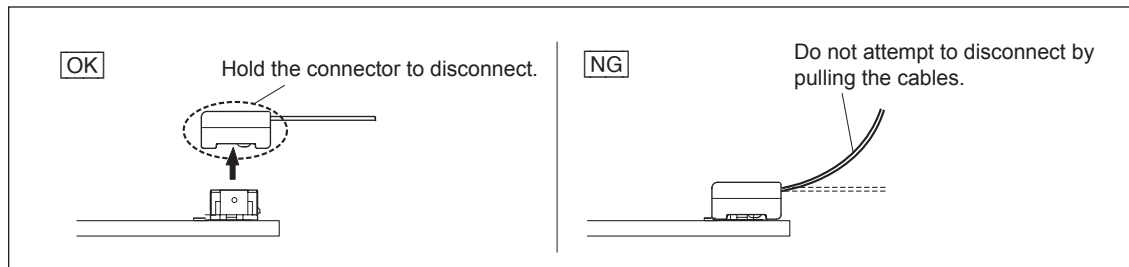
This unit uses the shape coaxial cables with connector.

Note

- The coaxial cable with connector uses fine pitch coaxial cables. Be careful when arranging the cable.
- When disconnecting the coaxial cable with connector, do not attempt to remove by pulling the cable. Be sure to hold the connector to remove.
- Do not insert the coaxial cable with connector at an angle.
- Check that the contact on the coaxial cable with connector is free from dirt or dust.
- When connecting the coaxial cable with connector, hold the connector, and align the polarity marks. Then connect the coaxial cable with connector to the connector straight.

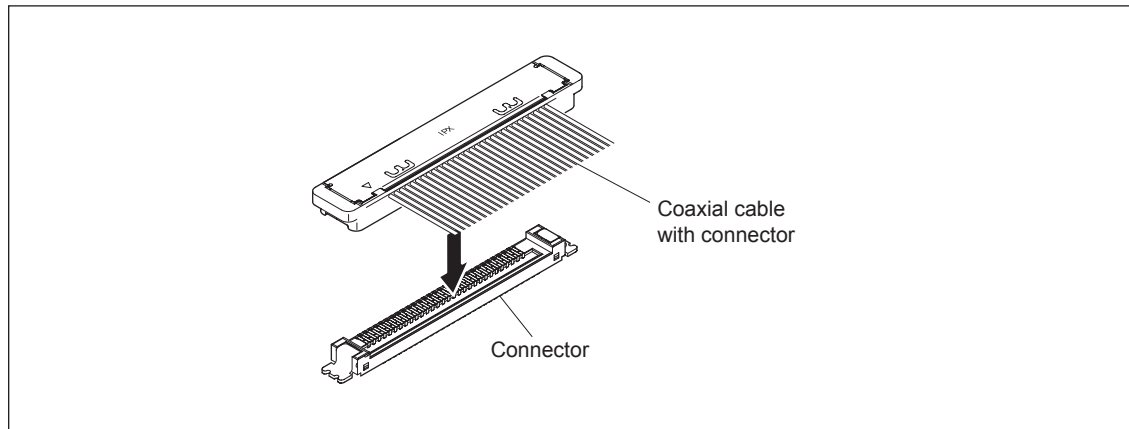
Disconnecting

Disconnect the coaxial cable with connector while holding the connector.



Connecting

Insert the connector of the coaxial cable with connector firmly as far as it will go.



1-5. Recommended Replacement Part

The recommended replacement fan should be used in the eye cup of this unit.

Check for deformation and deterioration (abraded or damaged or lost) from time to time. Replace it as necessary.

Part Name	Sony Part No.	Remark
EYE CUP	3-878-208-02	Refer to Section 2-1-5 about replacing.

1-6. Circuit Protection Parts

1-6-1. Fuse

WARNING

The fuse is critical parts to safe operation. Replace the components with Sony parts whose part number appear in the manual published by Sony. If the components are replaced by any parts other than the specified ones, this may cause a fire or electric shock.

Note

If fuse is replaced while the main power is kept on, this may cause electric shock.

Before replacing fuse, not only turn off the POWER switch but also remove the power cable that is connected to the DC IN connector.

The IF-1125 board is equipped with fuse.

Any an excessive current flow due to abnormality inside the equipment, the fuse blow. If a fuse blows, turn off the main power of the equipment once and inspect inside of the equipment and remove the cause of excessive current. After that, replace the fuse.

Board Name	Ref. No.	Description	Part No.
IF-1125	F4000	Fuse (32 V/1 A)	△ 1-576-596-21

1-7. Lead-free Solder

Boards requiring use of lead-free solder are printed with a 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

Notes

- Be sure to use the lead-free solder for the printed circuit board printed with the lead free mark.
- The lead-free solder melts at a temperature about 40 °C higher than the ordinary solder, therefore, it is recommended to use the soldering iron having a temperature regulator.
- The ordinary soldering iron can be used but the iron tip has to be applied to the solder joint for a slightly longer time. The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful.

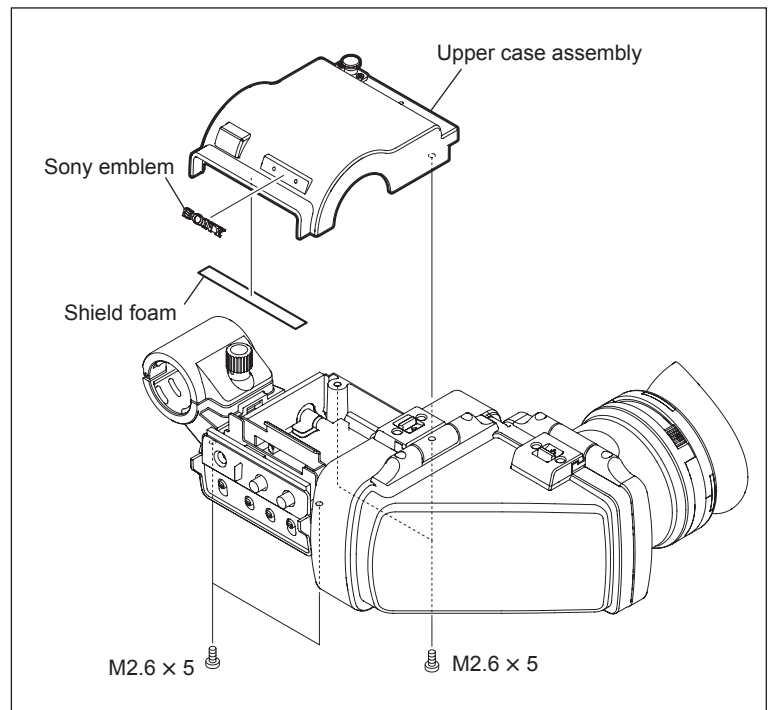
Section 2

Replacement of Main Parts

2-1. Removal and Installation of Each Block

2-1-1. Upper Case Assembly

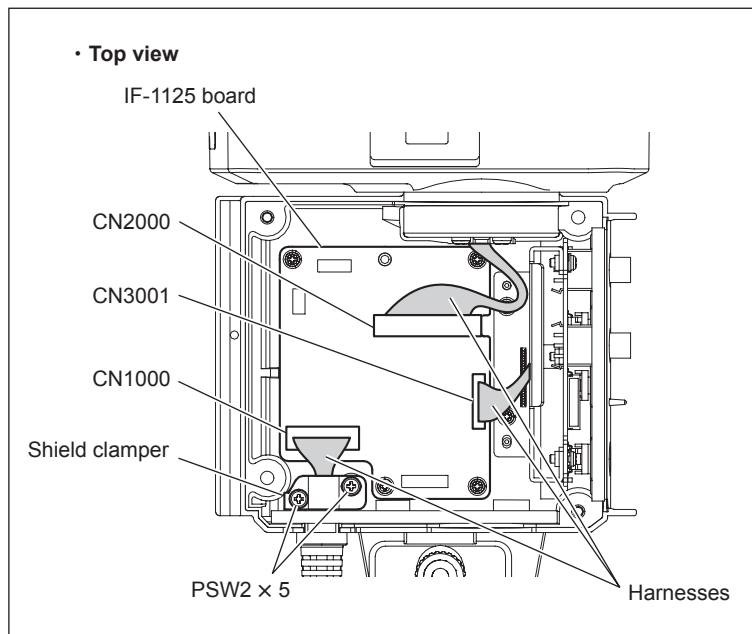
1. Remove the four screws and remove the upper case assembly.
2. Detach the shield foam and the sony emblem from the upper case assembly.



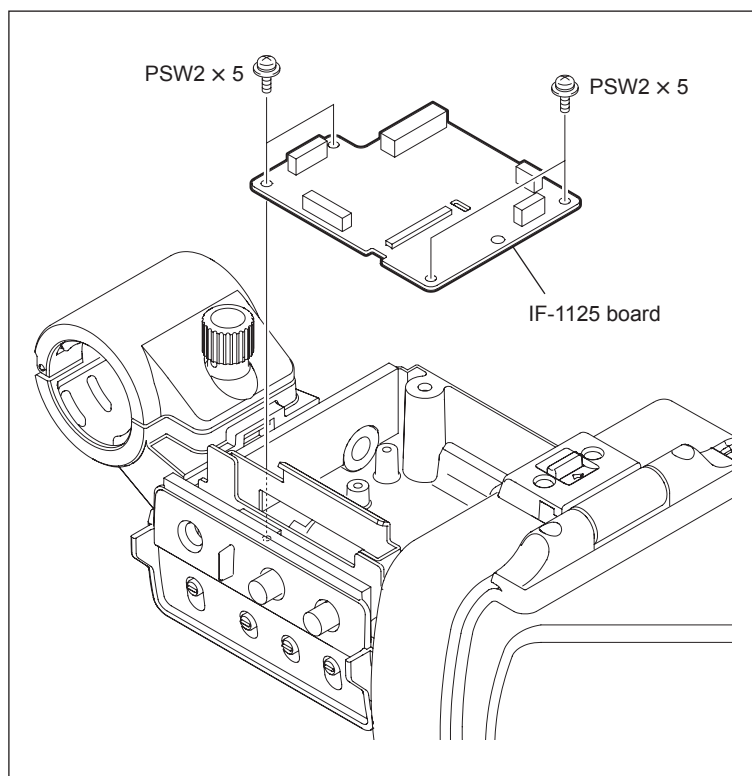
3. Install the removed parts by reversing the steps of removal.

2-1-2. IF-1125 Board

1. Remove the upper case assembly.
(Refer to Section 2-1-1.)
2. Remove the two screws securing the shield clamber and disconnect the harness from the connector CN1000 on the IF-1125 board.
3. Disconnect the harnesses from the connectors CN2000 and CN3001 on the IF-1125 board.



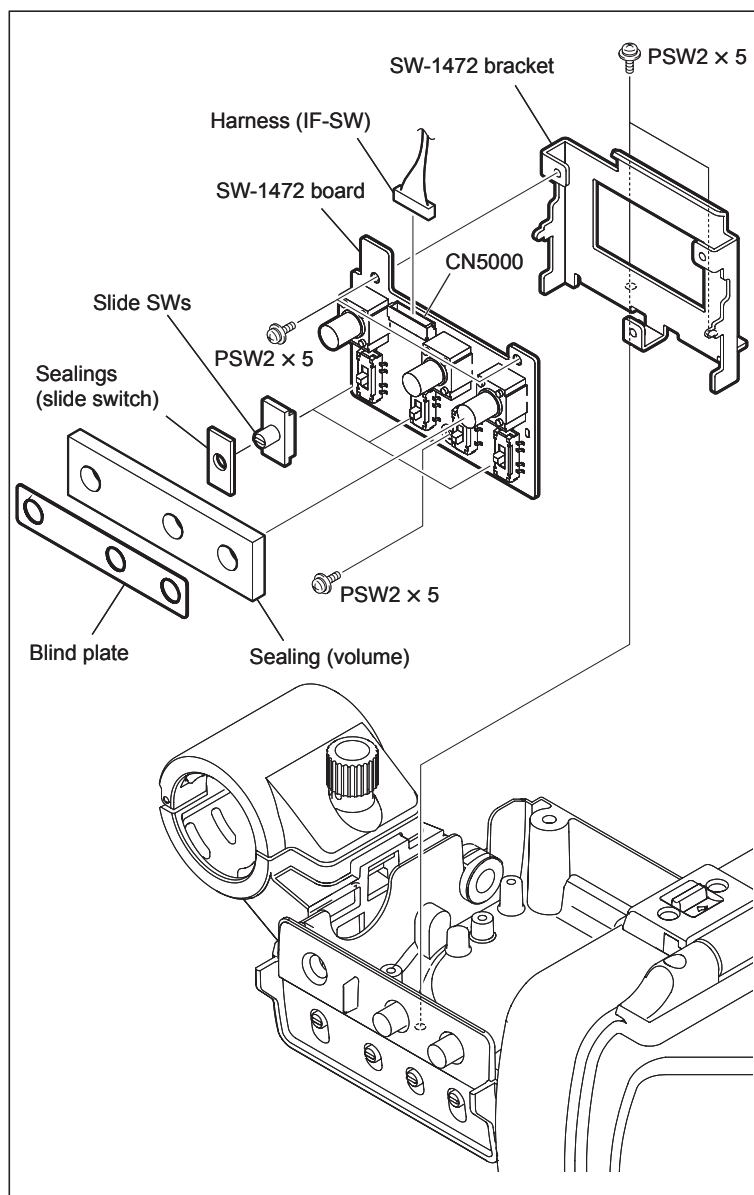
4. Remove the four screws and remove the IF-1125 board.



5. Install the removed parts by reversing the steps of removal.

2-1-3. SW-1472 Board

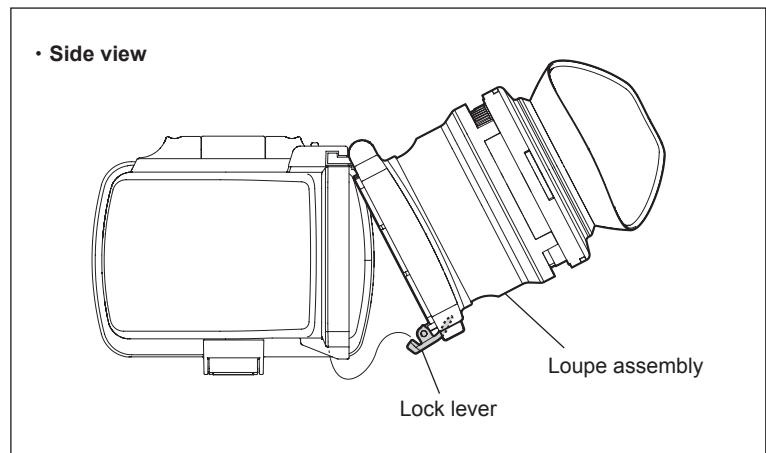
1. Remove the upper case assembly.
(Refer to Section 2-1-1.)
2. Remove the IF-1125 board.
(Refer to Section 2-1-2.)
3. Remove the two screws to detach the SW-1472 bracket.
4. Disconnect the harness (IF-SW) from the connector CN5000 on the SW-1472 board.
5. Detach the blind plate, sealing (volume), four sealings (slide switch), and four slide switches from the SW-1472 board.
6. Remove the three screws to detach the SW-1472 board.



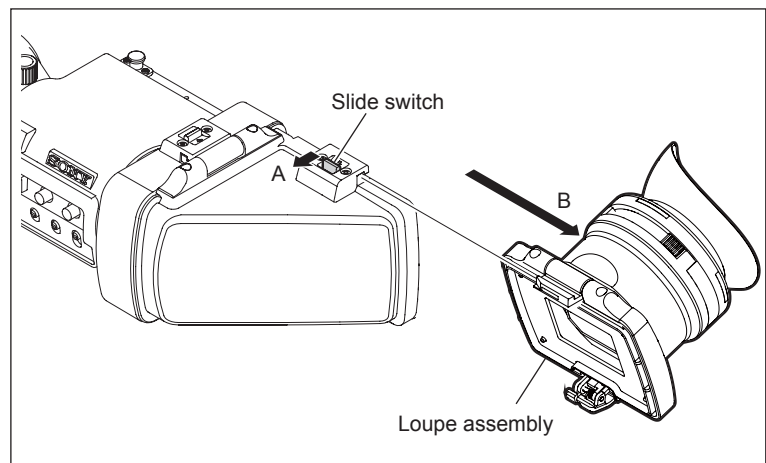
7. Install the removed parts by reversing the steps of removal.

2-1-4. Loupe Assembly

1. Release the lock lever and open the loupe assembly.



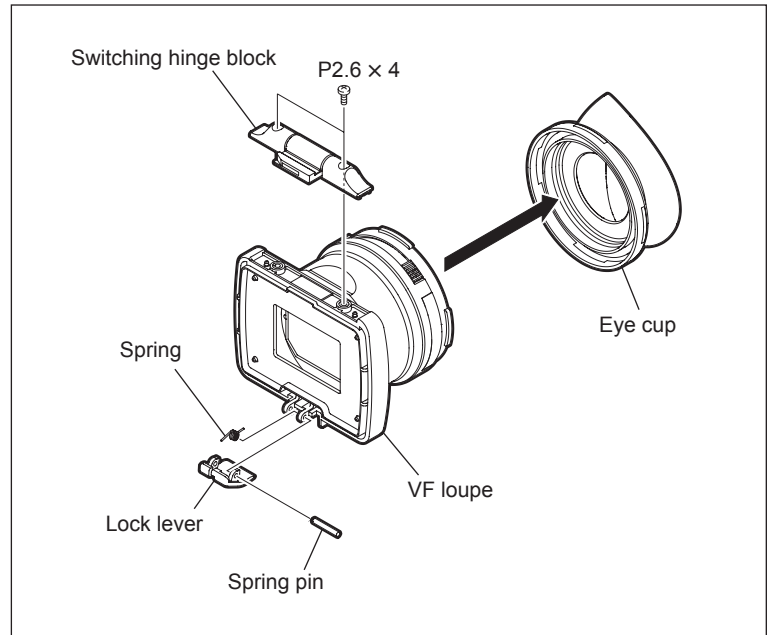
2. Remove the loupe assembly in the arrow B direction while sliding the slide switch in the arrow A direction.



3. Install the removed parts by reversing the steps of removal.

2-1-5. VF Loupe

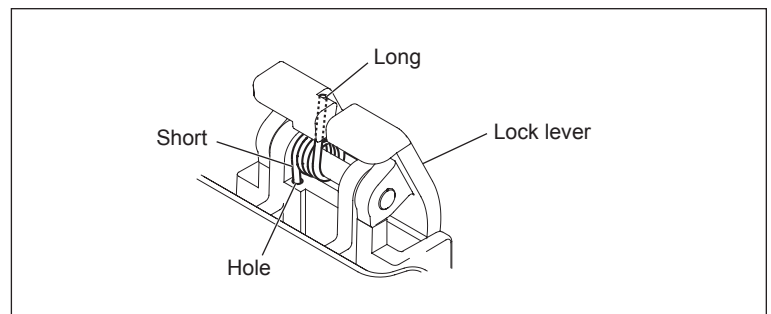
1. Remove the loupe assembly.
(Refer to Section 2-1-4.)
2. Detach the eye cup.
3. Remove the two screws to detach the switching hinge block.
4. Remove the spring pin, spring, and lock lever.



5. Install the removed parts by reversing the steps of removal.

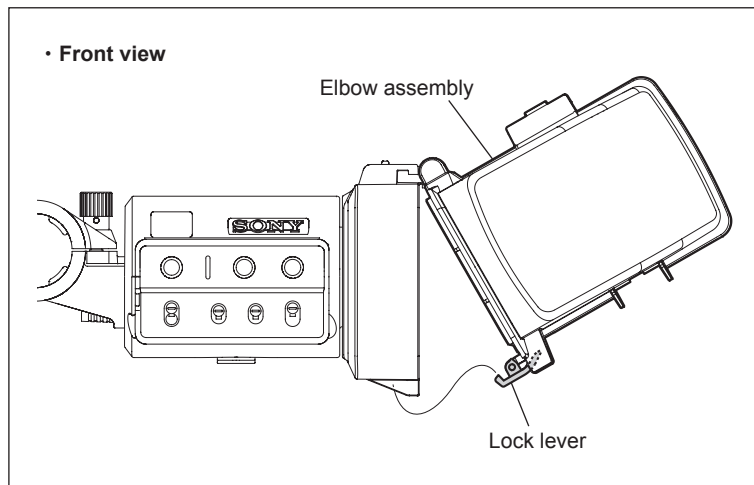
Note

When installing the spring, pay attention to its orientation.

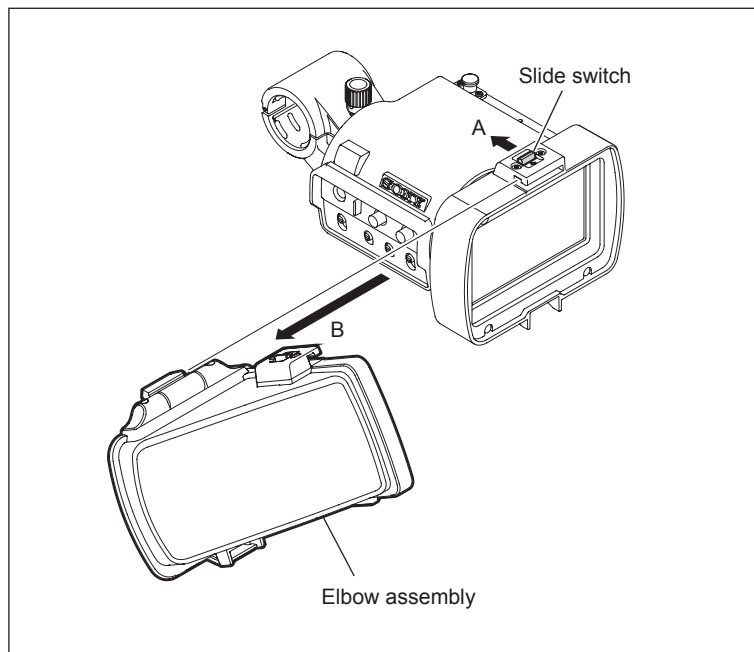


2-1-6. Elbow Assembly

1. Remove the loupe assembly.
(Refer to Section 2-1-4.)
2. Release the lock lever and open the elbow assembly.



3. Remove the elbow assembly in the arrow B direction while sliding the slide switch in the arrow A direction.



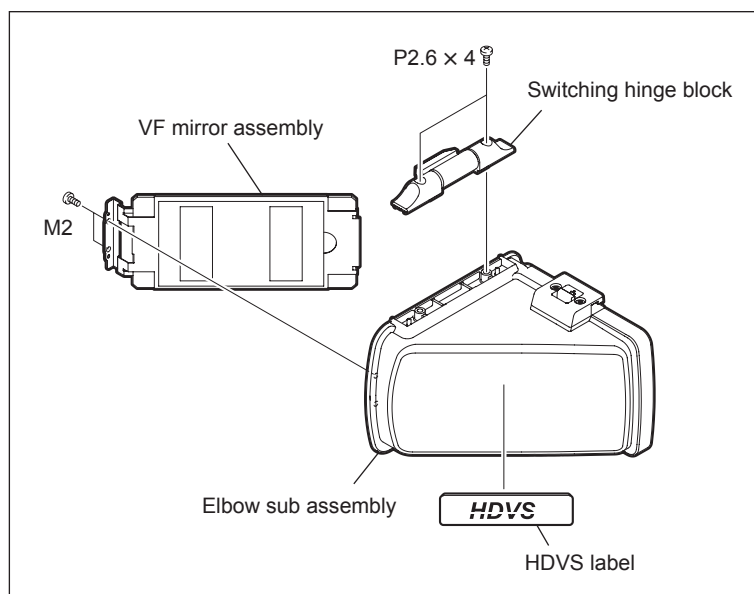
4. Install the removed parts by reversing the steps of removal.

2-1-7. Elbow Sub Assembly / VF Mirror Assembly

1. Remove the loupe assembly.
(Refer to Section 2-1-4.)
2. Remove the elbow assembly.
(Refer to Section 2-1-6.)
3. Remove the two screws (P2.6 × 4) to detach the switching hinge block.
4. Remove the two screws (M2) and remove the VF mirror assembly from the elbow sub assembly.
5. Pull off the HDVS label from the elbow sub assembly.

Note

The HDVS label peeled off cannot be recycled.
When replacing the elbow sub assembly, prepare the new HDVS label separately.



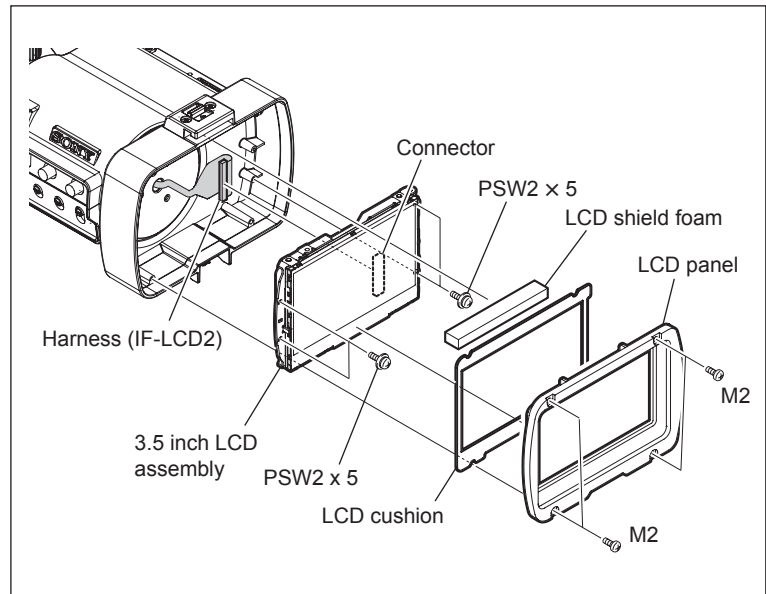
6. Install the removed parts by reversing the steps of removal.

Note

Do not touch the mirror surface. If it is contaminated, clean it with a wiping cloth.

2-1-8. 3.5 Inch LCD Assembly

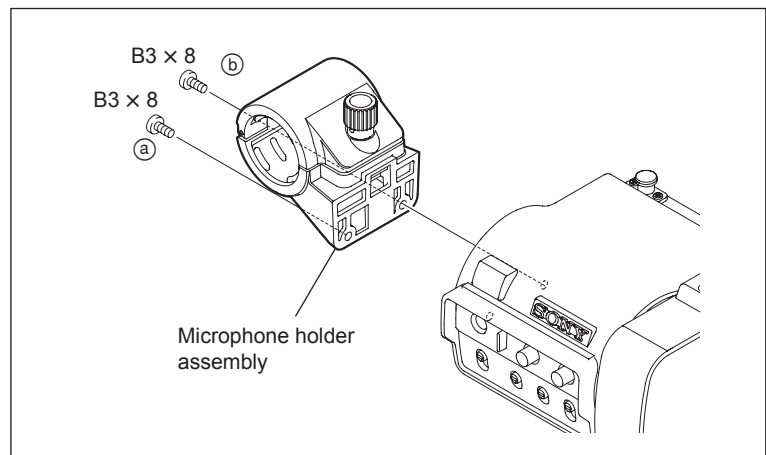
1. Remove the loupe assembly.
(Refer to Section 2-1-4.)
2. Remove the elbow assembly.
(Refer to Section 2-1-6.)
3. Remove the four screws (M2) and remove the LCD panel and the LCD cushion.
4. Remove the four screws and draw out the 3.5 inch LCD assembly and the LCD shield foam.
5. Disconnect the harness (IF-LCD2) from the connector on the 3.5 inch LCD assembly and remove the 3.5 inch LCD assembly.



6. Install the removed parts by reversing the steps of removal.

2-1-9. Microphone Holder Assembly

1. Remove the two screws and remove the microphone holder assembly.



2. Install the removed parts by reversing the steps of removal.

Note

When installing the microphone holder assembly, tighten screw “(a)” and then screw “(b).”

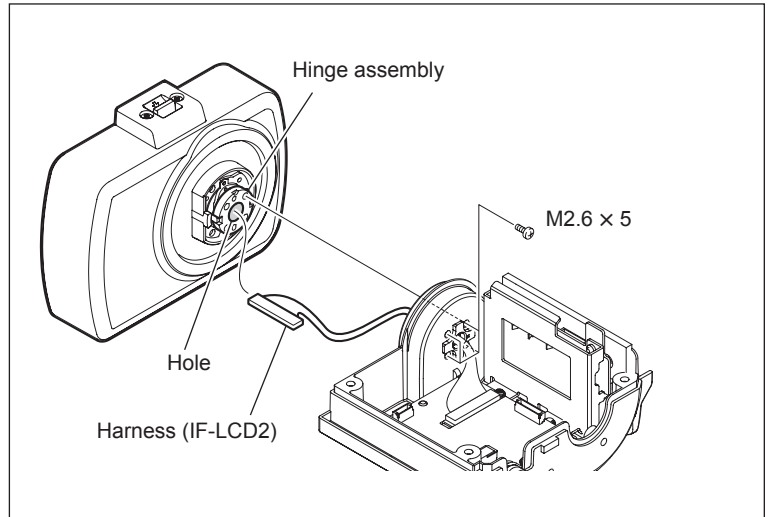
2-1-10. LCD Case Assembly

1. Remove the upper case assembly.
(Refer to Section 2-1-1.)
2. Remove the 3.5 inch LCD assembly.
(Refer to Section 2-1-8.)
3. Remove the microphone holder assembly.
(Refer to Section 2-1-9.)

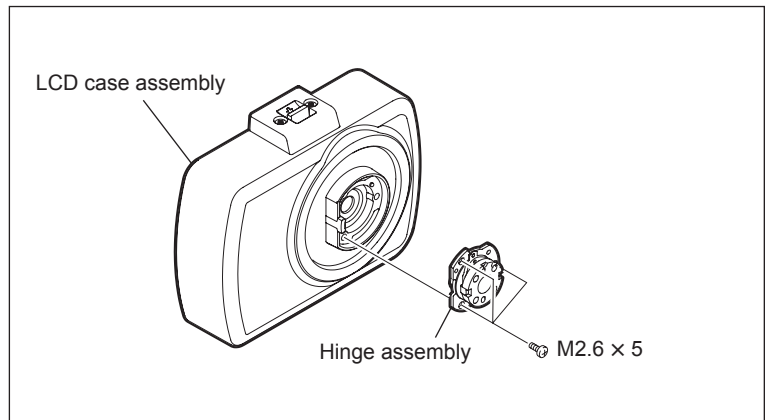
4. Remove the four screws and remove the hinge assembly.

Note

Remove the (IF-LCD2) carefully through the hole in the LCD case assembly so as not to damage it.



5. Remove the three screws and remove the hinge assembly from the LCD case assembly.



6. Install the removed parts by reversing the steps of removal.

Section 3

Spare Parts

3-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked △ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

4. Harness

Harnesses with no part number are not registered as spare parts.

3-1. 補修部品注意事項

1. 安全重要部品

△警告

△印のついた部品は安全性を維持するために重要な部品です。したがって、交換する時は必ず指定の部品を使ってください。

2. 部品の共通化

ソニーから供給する補修用部品は、セットに使われているものと異なることがあります。これは部品の共通化、改良等によるものです。

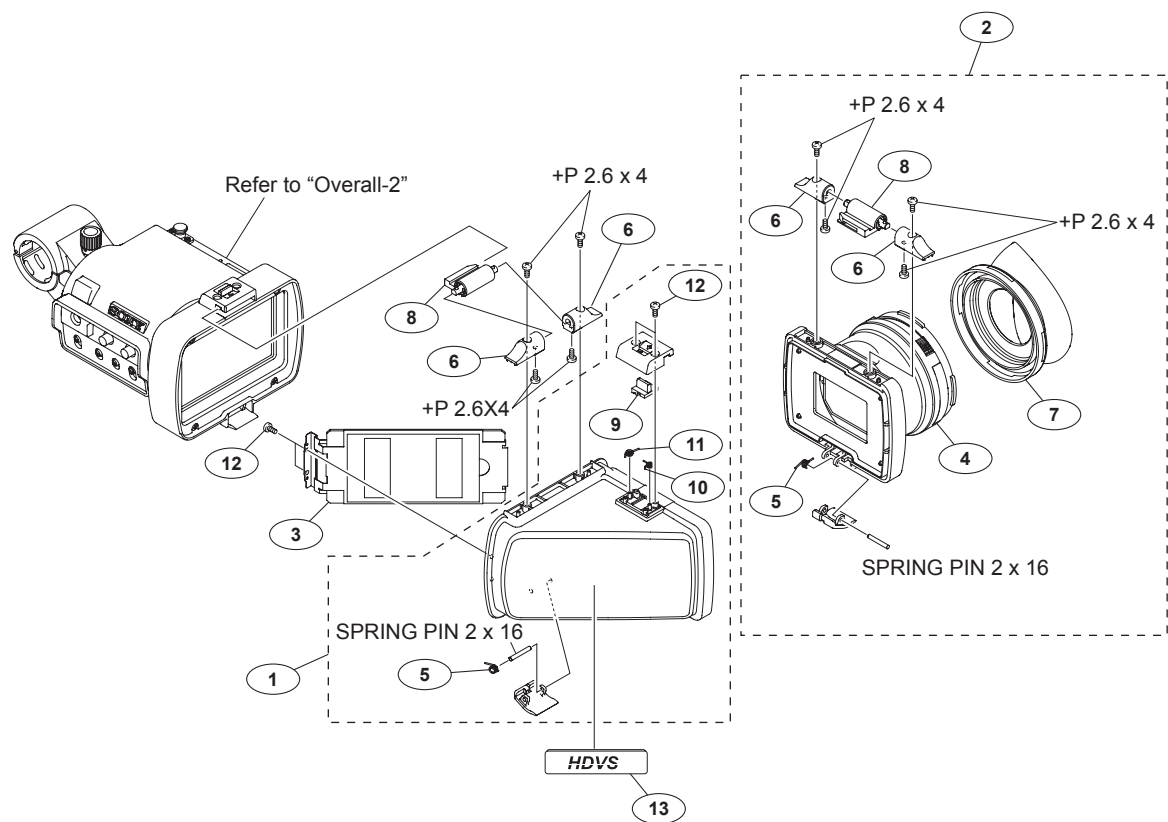
3. 部品の在庫

部品表の SP (Supply code) 欄に “o” で示される部品は在庫していないことがあり、納期が長くなることがあります。

4. ハーネス

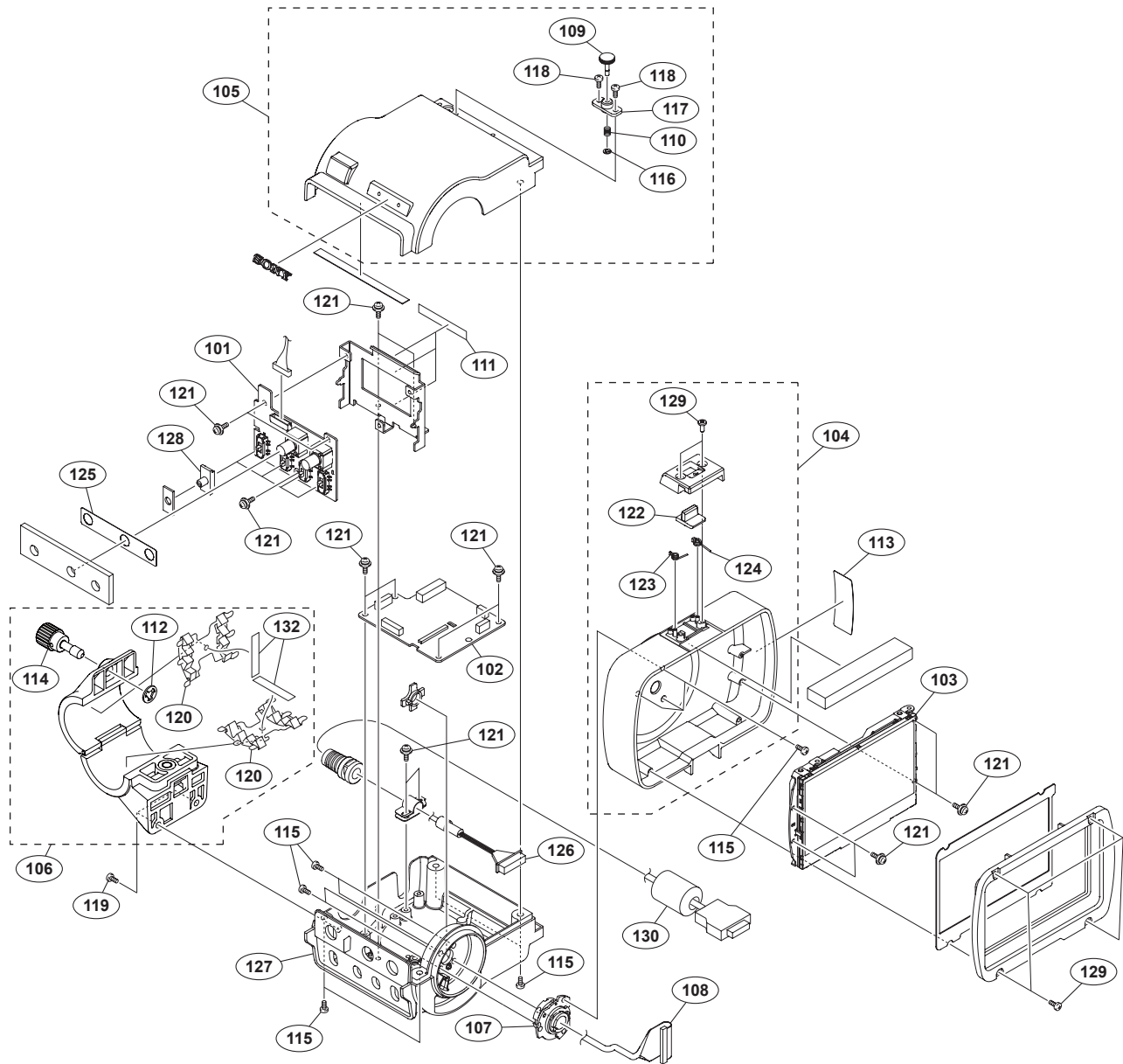
部品番号の記載されていないハーネスは、サービス部品として登録されていません。

3-2. Exploded Views



No.	Part No.	SP Description
1	A-1752-655-A	s ELBOW SUB ASSY
2	A-1752-761-A	s LOUPE ASSY
3	X-2541-756-2	s MIRROR ASSY
4	1-856-060-12	s LOUPE, VF
5	3-878-206-02	s SPRING ,TORSION COIL
6	3-878-207-01	s BLOCK,SHAFT FIXED
7	3-878-208-02	s EYE CUP
8	3-878-209-02	s HINGE, SWITCHING
9	3-878-231-11	s SW SLIDE
10	3-878-232-11	s SPRING (A90), TORSION COIL
11	3-878-233-11	s SPRING (A-70),TORSION COIL
12	4-654-273-02	s ACE (M2), LOCK
13	4-287-155-01	s LABEL, HDVS

7-621-775-10 s SCREW +P 2.6X4
7-626-314-31 s SPRING PIN 2X16



No. Part No. SP Description

101 A-1741-537-A s MOUNTED CIRCUIT BOARD, SW-1472
 102 A-1771-390-A s MOUNTED CIRCUIT BOARD, IF-1125 (RP)
 103 A-1748-439-A s 3.5 INCH LCD ASSY
 104 A-1752-654-A s CASE ASSY, LCD
 105 A-1752-757-A s CASE ASSY, UPPER

106 A-1511-856-B s MIC HOLDER ASSY (SERVICE)
 107 X-2318-442-1 s HINGE ASSY
 108 1-967-038-11 s HARNESS (IF-LCD2)
 109 2-277-457-11 s KNOB, STOPPER
 110 2-277-466-11 s SPRING, COMPRESSION

111 3-079-115-01 s TAPE AS
 112 3-165-904-01 s WASHER, SCREW STOPPER
 113 3-602-979-02 s LABEL, CAUTION
 114 3-633-916-01 s SCREW (M5)
 115 3-637-901-11 s SCREW M2.6X5

No. Part No. SP Description

116 3-669-465-01 s WASHER (1.5), STOPPER
 117 3-710-008-11 s HOUSING, STOPPER
 118 3-719-381-02 s SCREW (M2X4)
 119 3-742-074-13 s SCREW (+B 3X8)
 120 3-854-132-01 s GEL, MIC

121 3-855-938-01 s SCREW
 122 3-878-231-11 s SW SLIDE
 123 3-878-232-11 s SPRING (A90), TORSION COIL
 124 3-878-233-11 s SPRING (A-70), TORSION COIL
 125 3-878-235-01 s PLATE, BLIND

126 1-837-530-11 s CORD, CONNECTION (VF)
 127 4-169-158-03 s CASE, LOWER
 128 4-169-160-02 s SW, SLIDE
 129 4-654-273-02 s ACE (M2), LOC
 130 1-469-969-11 s CLAMP, FERRITE

132 3-941-343-01 s TAPE (A)

3-3. Electrical Parts List

IF-1125 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1771-390-A	s MOUNTED CIRCUIT BOARD, IF-1125 (RP)
C1000	1-100-671-91	s CAP, CERAMIC 4.7MF C (3216)
C1001	1-100-671-91	s CAP, CERAMIC 4.7MF C (3216)
C1002	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1003	1-100-581-81	s CAP,CHIP CERAMIC0.0047MF B1005
C1004	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C1005	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C1006	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1007	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1008	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1009	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1010	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1011	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C1012	1-112-692-81	s CAP,CHIP CERAMIC1000PF CH 1005
C1013	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1014	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1015	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1016	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1017	1-100-671-91	s CAP, CERAMIC 4.7MF C (3216)
C1019	1-164-882-81	s CAP,CHIP CERAMIC 220PF CH 1005
C1020	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1021	1-125-891-91	s CAP, CHIP CERAMIC0.47MF B 1608
C1024	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C1027	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C2000	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C2001	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C2002	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C2003	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C2004	1-114-333-11	s CAP, CERAMIC 47MF X6S 3216
C2005	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C2006	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C3000	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C3001	1-107-819-81	s CAP,CHIP CERAMIC 22000PF B1005
C3002	1-112-717-91	s CAP, CERAMIC 1UF B (1005)
C3005	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C3006	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C3007	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C3008	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C3009	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C3010	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C3011	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C3012	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C3015	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C3016	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C3017	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C3018	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C4000	1-100-671-91	s CAP, CERAMIC 4.7MF C (3216)
C4001	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C4004	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C4006	1-165-875-91	s CAP, CHIP CERAMIC 10MF B 3216
C4007	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
C4009	1-112-746-91	s CAP, CERAMIC 4.7MF B (1608)
CN1000	1-793-358-21	s PIN (PWB) (30P), CONNECTOR
CN3000	1-817-068-21	s CONNECTOR 9P
CN3001	1-793-152-21	o CONNECTOR 11P
D1000	6-500-701-01	s DIODE PGB1010603NR
D1001	6-500-701-01	s DIODE PGB1010603NR

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Ref. No. or Q'ty	Part No.	SP Description
D1002	6-500-701-01	s DIODE PGB1010603NR
D1003	6-500-701-01	s DIODE PGB1010603NR
D1004	6-500-701-01	s DIODE PGB1010603NR
D1005	6-500-701-01	s DIODE PGB1010603NR
D1006	6-500-701-01	s DIODE PGB1010603NR
D1007	6-500-701-01	s DIODE PGB1010603NR
D1008	6-500-701-01	s DIODE PGB1010603NR
D1009	6-500-701-01	s DIODE PGB1010603NR
D1010	6-500-701-01	s DIODE PGB1010603NR
D1011	6-500-701-01	s DIODE PGB1010603NR
D1012	6-500-701-01	s DIODE PGB1010603NR
D1013	6-500-701-01	s DIODE PGB1010603NR
D1014	6-500-701-01	s DIODE PGB1010603NR
D1015	6-500-701-01	s DIODE PGB1010603NR
D4000	6-501-336-01	s DIODE RSX201L-30TE25
F4000	Δ 1-576-596-21	s FUSE, MICRO (1608 TYPE) (1A/32V)
FB1000	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB2000	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB2001	1-400-382-21	s EMI FERRITE (SMD) (1608)
FB2002	1-400-382-21	s EMI FERRITE (SMD) (1608)
FB3000	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB3001	1-400-462-21	s FERRITE, EMI (SMD) (1005)
FB4000	1-400-580-21	s FERRITE, EMI (SMD)
FB4001	1-400-382-21	s EMI FERRITE (SMD) (1608)
FB4002	1-400-382-21	s EMI FERRITE (SMD) (1608)
IC1000	6-702-955-01	s IC R3112N251A-TR
IC1001	6-702-955-01	s IC R3112N251A-TR
IC1003	6-702-955-01	s IC R3112N251A-TR
IC1004	6-706-487-01	s IC TC7SH08FU
IC2000	6-711-497-01	s IC TC74VCX541FK(EL)
IC2001	6-711-497-01	s IC TC74VCX541FK(EL)
IC2002	6-711-497-01	s IC TC74VCX541FK(EL)
IC2003	6-704-353-01	s IC SN74LVC2G34DCKR
IC3000	6-702-955-01	s IC R3112N251A-TR
IC3001	6-714-975-01	s IC UPD78F0533AGB(S)-422-GAH-AX
IC4000	6-714-812-01	s IC BD9870FPS-E2
IC4001	6-712-135-01	o IC R1173H001D-T1-F
IC4002	6-712-135-01	o IC R1173H001D-T1-F
L1000	1-457-057-21	s COIL, COMMON MODE CHOKE
L1001	1-457-057-21	s COIL, COMMON MODE CHOKE
L1002	1-457-057-21	s COIL, COMMON MODE CHOKE
L1003	1-457-057-21	s COIL, COMMON MODE CHOKE
L1004	1-457-057-21	s COIL, COMMON MODE CHOKE
L1005	1-457-057-21	s COIL, COMMON MODE CHOKE
L1006	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
L1007	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
L3000	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
L4000	1-457-735-11	s CHOKE COIL 10UH
Q1000	8-729-928-37	s TRANSISTOR DTA114EE-TL
Q1001	8-729-928-91	s TRANSISTOR DTC114EE-TL
Q3002	8-729-928-37	s TRANSISTOR DTA114EE-TL
Q3003	8-729-928-91	s TRANSISTOR DTC114EE-TL
R1000	1-208-887-81	s RES, CHIP 1.0K (1005)
R1001	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1002	1-208-911-81	s RES, CHIP 10K (1005)
R1003	1-208-863-81	s RES, CHIP 100 (1005)
R1004	1-208-863-81	s RES, CHIP 100 (1005)

(IF-1125 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R1005	1-208-863-81	s RES, CHIP 100 (1005)
R1006	1-208-863-81	s RES, CHIP 100 (1005)
R1007	1-208-863-81	s RES, CHIP 100 (1005)
R1008	1-208-863-81	s RES, CHIP 100 (1005)
R1009	1-208-911-81	s RES, CHIP 10K (1005)
R1010	1-208-911-81	s RES, CHIP 10K (1005)
R1011	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1014	1-208-863-81	s RES, CHIP 100 (1005)
R1015	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1016	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1017	1-218-990-81	s CONDUCTOR, CHIP (1005)
R1018	1-216-864-91	s CONDUCTOR, CHIP (1608)
R1019	1-216-864-91	s CONDUCTOR, CHIP (1608)
R1020	1-208-887-81	s RES, CHIP 1.0K (1005)
R1021	1-218-990-81	s CONDUCTOR, CHIP (1005)
R2000	1-208-863-81	s RES, CHIP 100 (1005)
R2001	1-208-863-81	s RES, CHIP 100 (1005)
R2003	1-208-863-81	s RES, CHIP 100 (1005)
R2004	1-208-927-81	s RES, CHIP 47K (1005)
R3000	1-208-887-81	s RES, CHIP 1.0K (1005)
R3001	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3002	1-208-911-81	s RES, CHIP 10K (1005)
R3003	1-208-911-81	s RES, CHIP 10K (1005)
R3004	1-208-855-81	s RES, CHIP 47 (1005)
R3005	1-208-855-81	s RES, CHIP 47 (1005)
R3006	1-208-959-81	s RES, CHIP 1M (1005)
R3009	1-208-911-81	s RES, CHIP 10K (1005)
R3010	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3011	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3012	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3013	1-208-903-81	s RES, CHIP 4.7K (1005)
R3014	1-208-903-81	s RES, CHIP 4.7K (1005)
R3016	1-208-887-81	s RES, CHIP 1.0K (1005)
R3017	1-208-887-81	s RES, CHIP 1.0K (1005)
R3018	1-208-887-81	s RES, CHIP 1.0K (1005)
R3019	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3020	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3023	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3024	1-208-911-81	s RES, CHIP 10K (1005)
R3025	1-208-911-81	s RES, CHIP 10K (1005)
R3026	1-208-911-81	s RES, CHIP 10K (1005)
R3027	1-208-887-81	s RES, CHIP 1.0K (1005)
R3028	1-208-887-81	s RES, CHIP 1.0K (1005)
R3029	1-208-887-81	s RES, CHIP 1.0K (1005)
R3030	1-208-887-81	s RES, CHIP 1.0K (1005)
R3031	1-208-911-81	s RES, CHIP 10K (1005)
R3032	1-208-911-81	s RES, CHIP 10K (1005)
R3033	1-208-911-81	s RES, CHIP 10K (1005)
R3035	1-208-911-81	s RES, CHIP 10K (1005)
R3042	1-218-823-91	s RES, CHIP 100 (1608)
R3043	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3044	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3045	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3046	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3047	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3048	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3049	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3051	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3052	1-218-990-81	s CONDUCTOR, CHIP (1005)

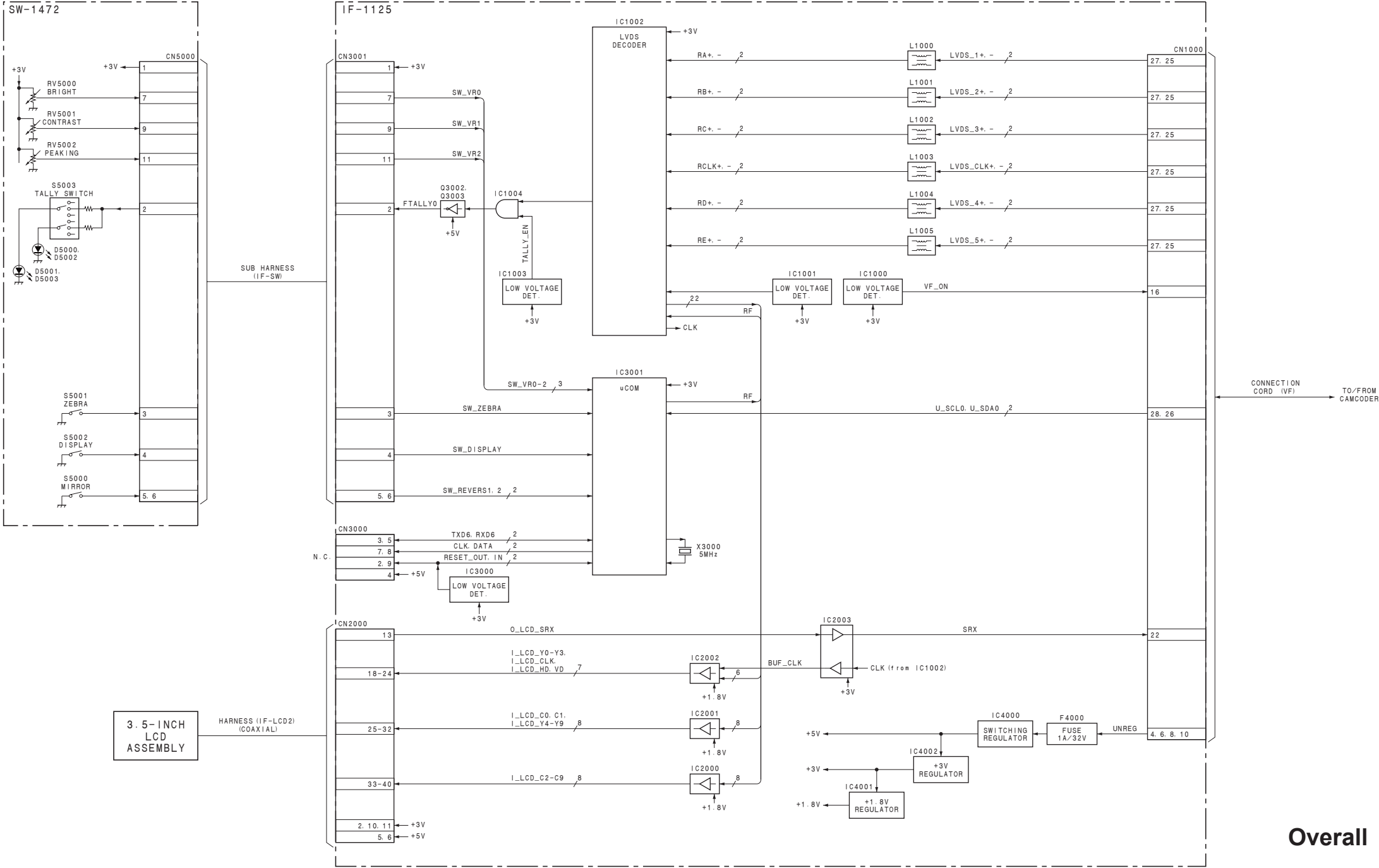
(IF-1125 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R3053	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3054	1-218-990-81	s CONDUCTOR, CHIP (1005)
R3055	1-208-927-81	s RES, CHIP 47K (1005)
R3056	1-208-927-81	s RES, CHIP 47K (1005)
R4000	1-218-990-81	s CONDUCTOR, CHIP (1005)
R4001	1-208-911-81	s RES, CHIP 10K (1005)
R4002	1-208-863-81	s RES, CHIP 100 (1005)
R4003	1-208-901-81	s RES, CHIP 3.9K (1005)
R4004	1-208-887-81	s RES, CHIP 1.0K (1005)
R4005	1-208-911-81	s RES, CHIP 10K (1005)
R4015	1-208-903-81	s RES, CHIP 4.7K (1005)
R4016	1-208-945-81	s RES, CHIP 270K (1005)
R4017	1-208-895-81	s RES, CHIP 2.2K (1005)
R4018	1-208-885-81	s RES, CHIP 820 (1005)
R4019	1-208-887-81	s RES, CHIP 1.0K (1005)
R4020	1-208-927-81	s RES, CHIP 47K (1005)
RB1000	1-234-400-21	s CONDUCTOR, NETWORK (1005X4)
RB1001	1-234-400-21	s CONDUCTOR, NETWORK (1005X4)
RB1002	1-234-400-21	s CONDUCTOR, NETWORK (1005X4)
RB1003	1-234-400-21	s CONDUCTOR, NETWORK (1005X4)
RB1004	1-234-400-21	s CONDUCTOR, NETWORK (1005X4)
RB1005	1-234-400-21	s CONDUCTOR, NETWORK (1005X4)
RB1006	1-234-400-21	s CONDUCTOR, NETWORK (1005X4)
RB2000	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB2001	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB2002	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB2003	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB2004	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB2005	1-234-370-21	s RES, NETWORK 22 (1005X4)
RB3000	1-234-380-21	s RES, NETWORK 47K (1005X4)
TP1000	1-535-877-22	s CHIP, CHECKER
TP1001	1-535-877-22	s CHIP, CHECKER
X3000	1-795-121-21	s VIBRATOR, CERAMIC

SW-1472 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-1741-537-A	s MOUNTED CIRCUIT BOARD, SW-1472
C5000	1-100-611-91	s CAP, CERAMIC 22MF C (2012)
C5001	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C5002	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C5003	1-125-777-81	s CAP, CHIP CERAMIC 0.1MF B 1005
C5004	1-112-298-91	o CAP, CERAMIC 1MF B (1608)
C5005	1-112-298-91	o CAP, CERAMIC 1MF B (1608)
C5006	1-112-298-91	o CAP, CERAMIC 1MF B (1608)
C5007	1-112-298-91	o CAP, CERAMIC 1MF B (1608)
CN5000	1-770-628-21	s PIN, CONNECTOR 11P
D5000	6-502-193-01	s DI SML-D12V8WT86SN
D5001	6-502-193-01	s DI SML-D12V8WT86SN
D5002	6-502-193-01	s DI SML-D12V8WT86SN
D5003	6-502-193-01	s DI SML-D12V8WT86SN
D5004	8-719-989-01	s DIODE DA221-TL
D5005	8-719-989-01	s DIODE DA221-TL
D5006	8-719-989-01	s DIODE DA221-TL
D5007	8-719-989-01	s DIODE DA221-TL
D5008	8-719-989-01	s DIODE DA221-TL
D5009	8-719-989-01	s DIODE DA221-TL
D5010	8-719-989-01	s DIODE DA221-TL
L5000	1-469-555-21	s INDUCTOR, CHIP 10UH (LB2016)
R5000	1-208-863-81	s RES, CHIP 100 (1005)
R5001	1-208-895-81	s RES, CHIP 2.2K (1005)
R5002	1-208-863-81	s RES, CHIP 100 (1005)
R5003	1-208-895-81	s RES, CHIP 2.2K (1005)
RV5000	1-241-197-11	s RES, VAR, CARBON 10K
RV5001	1-241-197-11	s RES, VAR, CARBON 10K
RV5002	1-241-197-11	s RES, VAR, CARBON 10K
S5000	1-771-141-21	s SWITCH, SLIDE
S5001	1-771-140-21	s SWITCH, SLIDE
S5002	1-771-140-21	s SWITCH, SLIDE
S5003	1-771-141-21	s SWITCH, SLIDE

Section 4
Block Diagrams



Overall

Section 5
Schematic Diagrams

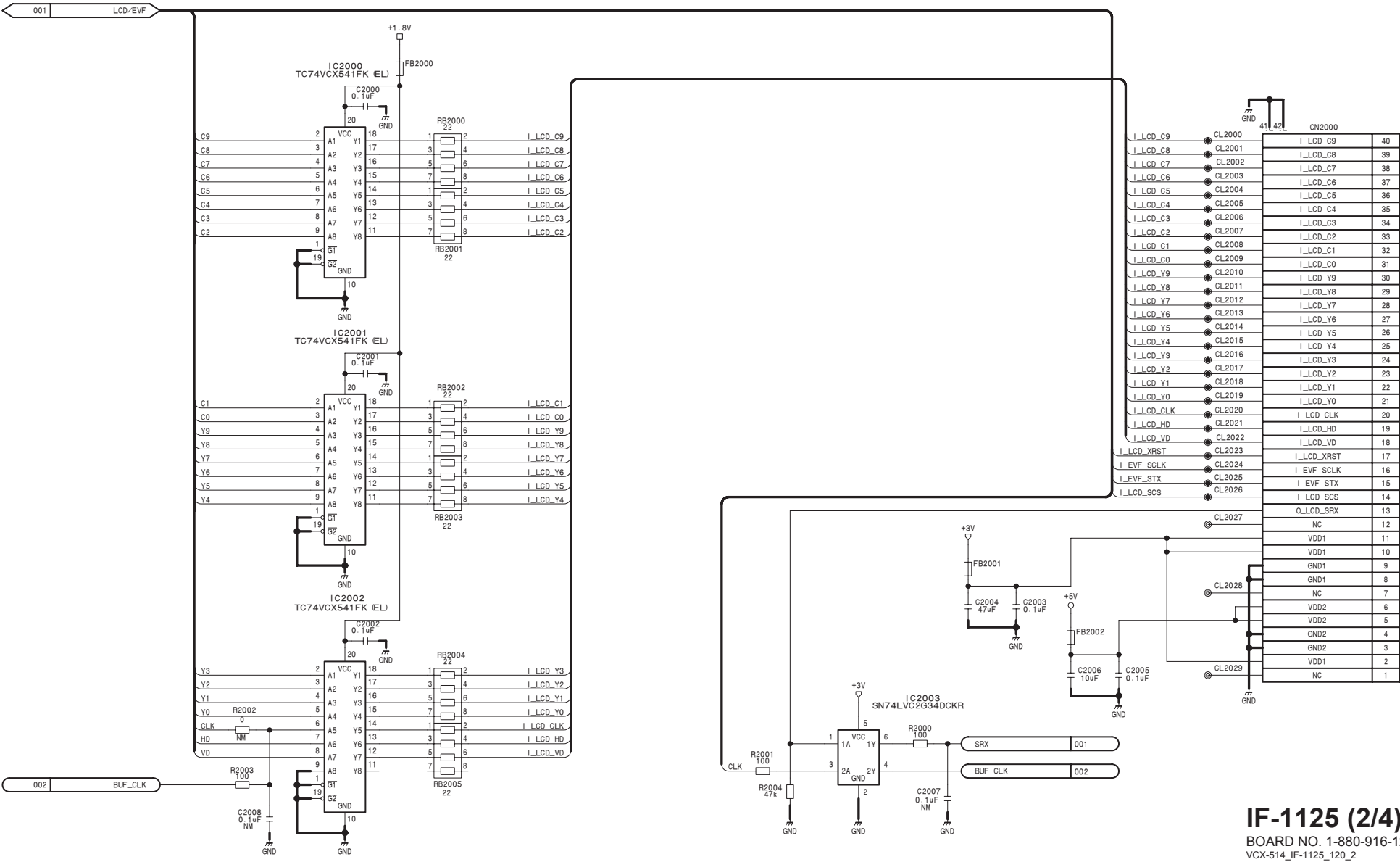
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SUFFIX: -12





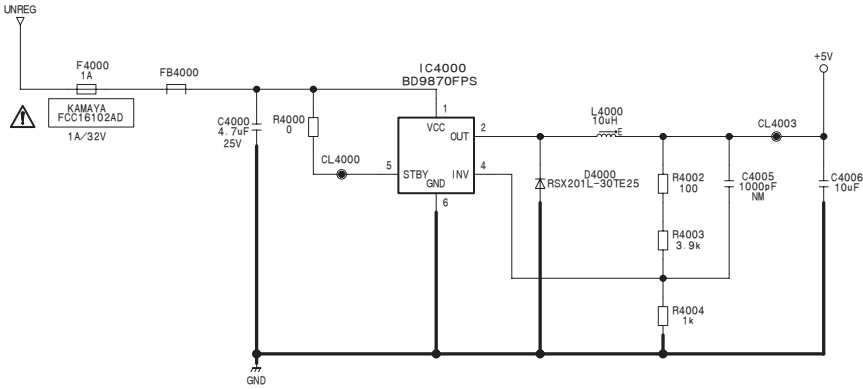
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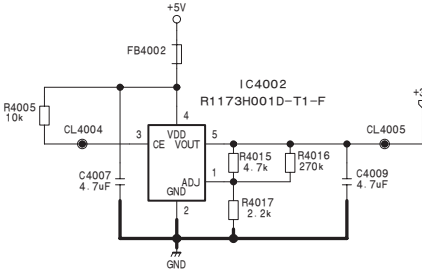
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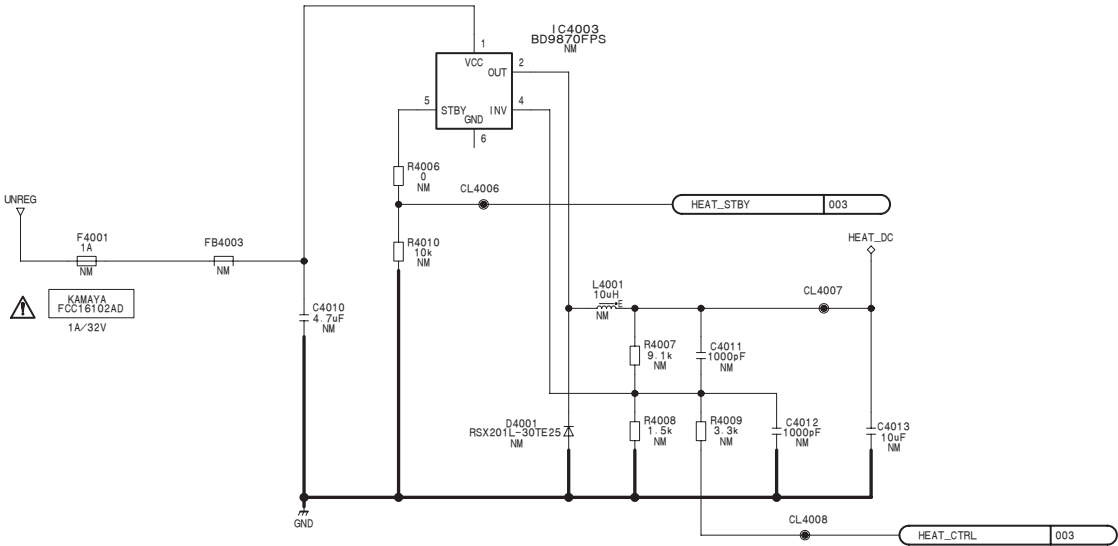
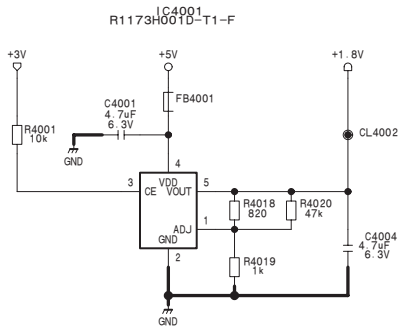
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3.1V Reg

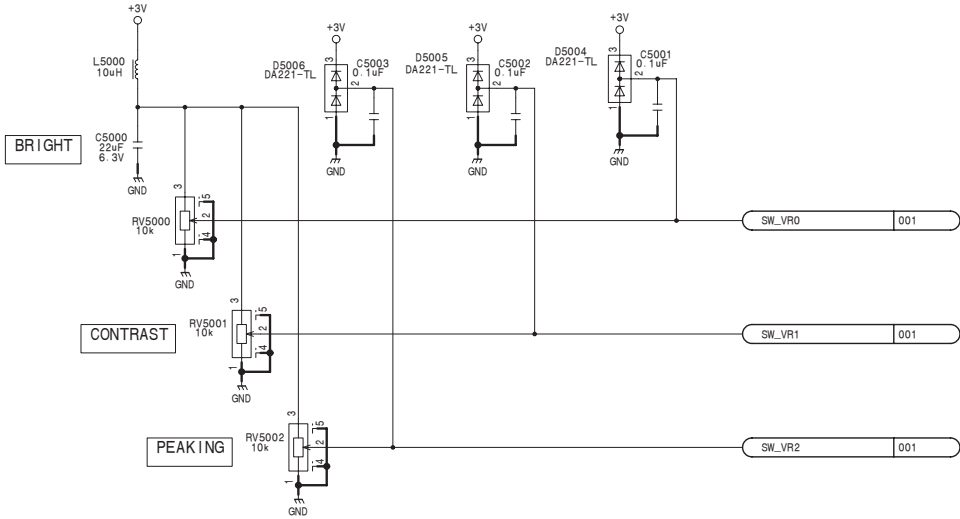


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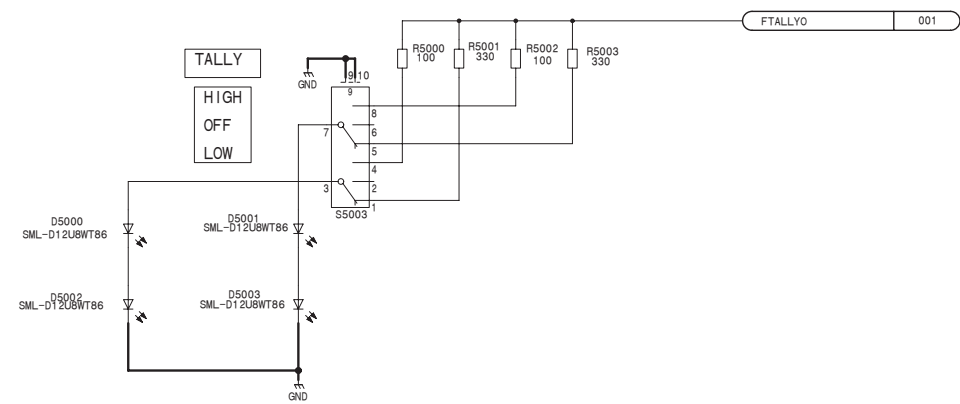


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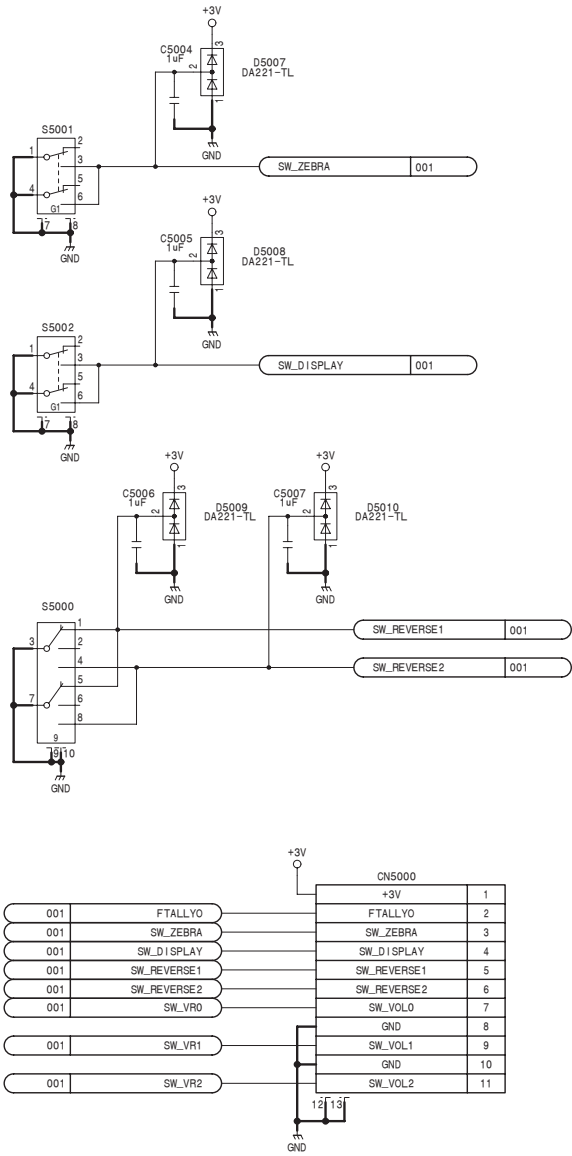
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ZRBRA

DISPLAY



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