

**SYLVANIA**

# **SERVICE MANUAL**

This service manual shows only the differences between the model LC370SL8 and the original model LC370SS8. All other information is described in the service manual of the model LC370SS8.

## **37" COLOR LCD TELEVISION LC370SL8**



### **TABLE OF CONTENTS**

Block Diagrams .....	1-1
Schematic Diagrams / CBA's and Test Points .....	2-1
Wiring Diagram .....	3-1
Different parts from the original model (LC370SS8) .....	4-1

# BLOCK DIAGRAMS

## Power Supply Block Diagram

### CAUTION !

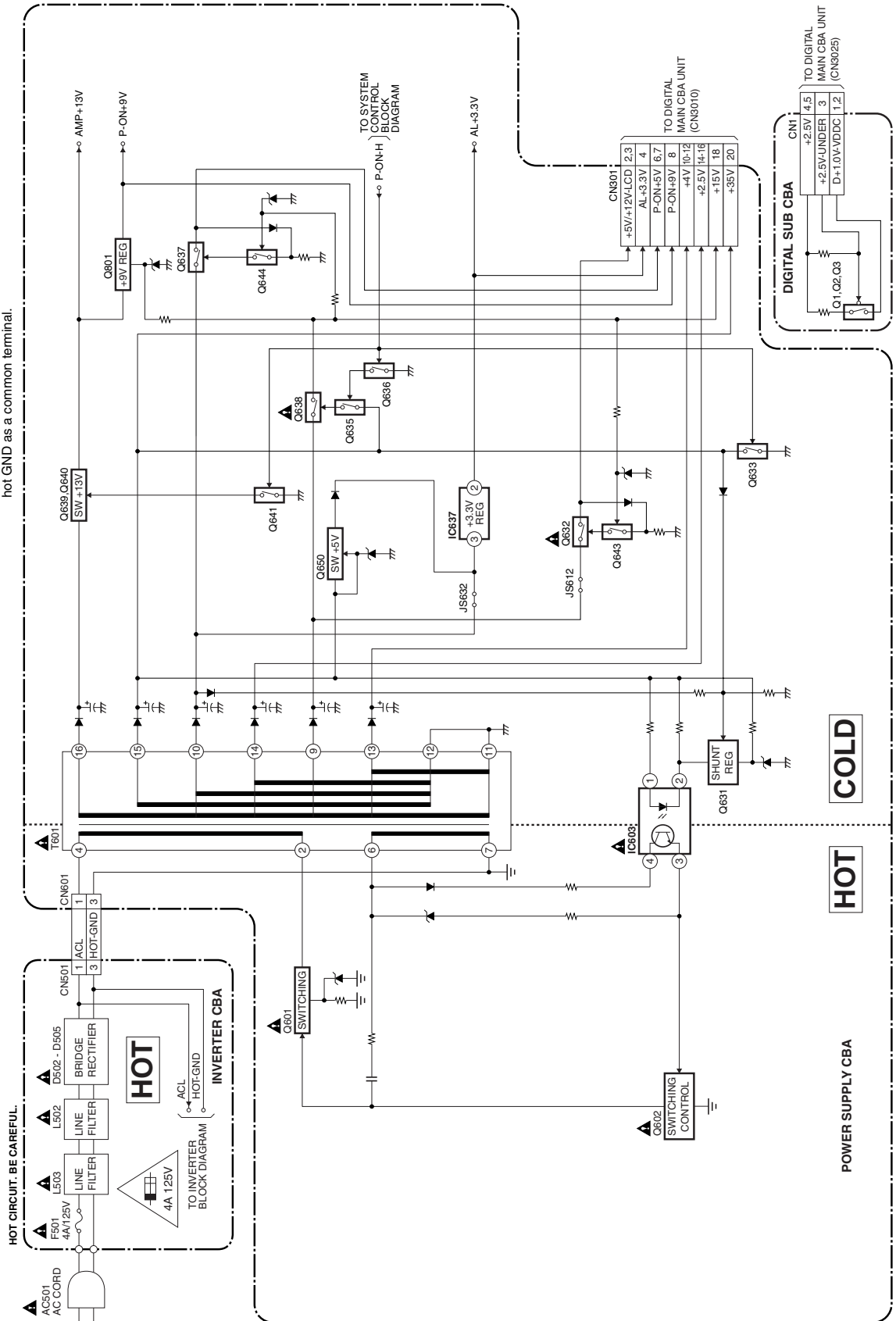
Fixed voltage (or Auto voltage selectable) power supply circuit is used in this unit. If Main Fuse (F501) is blown, check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.



**CAUTION ! :** For continued protection against risk of fire, replace only with same type 4 A, 125V fuse.  
**ATTENTION :** Utiliser un fusible de rechange de même type de 4A, 125V.

### NOTE:

The voltage for parts in hot circuit is measured using hot GND as a common terminal.



# SCHEMATIC DIAGRAMS / CBA'S AND TEST POINTS

## Standard Notes

### WARNING

Many electrical and mechanical parts in this chassis have special characteristics. These characteristics often pass unnoticed and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts that have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the mark "▲" in the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts that do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

### Notes:

1. Do not use the part number shown on these drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since these drawings were prepared.
2. All resistance values are indicated in ohms (K =  $10^3$ , M =  $10^6$ ).
3. Resistor wattages are 1/4W or 1/6W unless otherwise specified.
4. All capacitance values are indicated in  $\mu\text{F}$  (P =  $10^{-6}$   $\mu\text{F}$ ).
5. All voltages are DC voltages unless otherwise specified.

## LIST OF CAUTION, NOTES, AND SYMBOLS USED IN THE SCHEMATIC DIAGRAMS ON THE FOLLOWING PAGES:

### 1. CAUTION:

**CAUTION:** FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE\_A,\_V FUSE.

**ATTENTION:** UTILISER UN FUSIBLE DE RECHANGE DE MÊME TYPE DE\_A,\_V.

### 2. CAUTION:

Fixed Voltage (or Auto voltage selectable) power supply circuit is used in this unit.

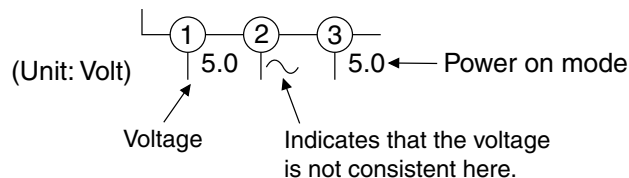
If Main Fuse (F501) is blown, first check to see that all components in the power supply circuit are not defective before you connect the AC plug to the AC power supply. Otherwise it may cause some components in the power supply circuit to fail.

### 3. Note:

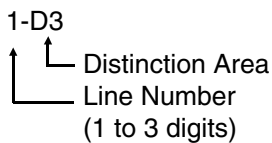
- Do not use the part number shown on the drawings for ordering. The correct part number is shown in the parts list, and may be slightly different or amended since the drawings were prepared.
- To maintain original function and reliability of repaired units, use only original replacement parts which are listed with their part numbers in the parts list section of the service manual.

### 4. Voltage indications on the schematics are as shown below:

Plug the TV power cord into a standard AC outlet.:

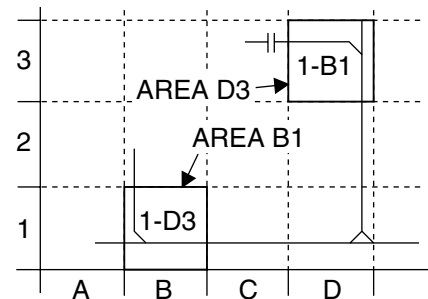


### 5. How to read converged lines



Examples:

- "1-D3" means that line number "1" goes to the line number "1" of the area "D3".
- "1-B1" means that line number "1" goes to the line number "1" of the area "B1".

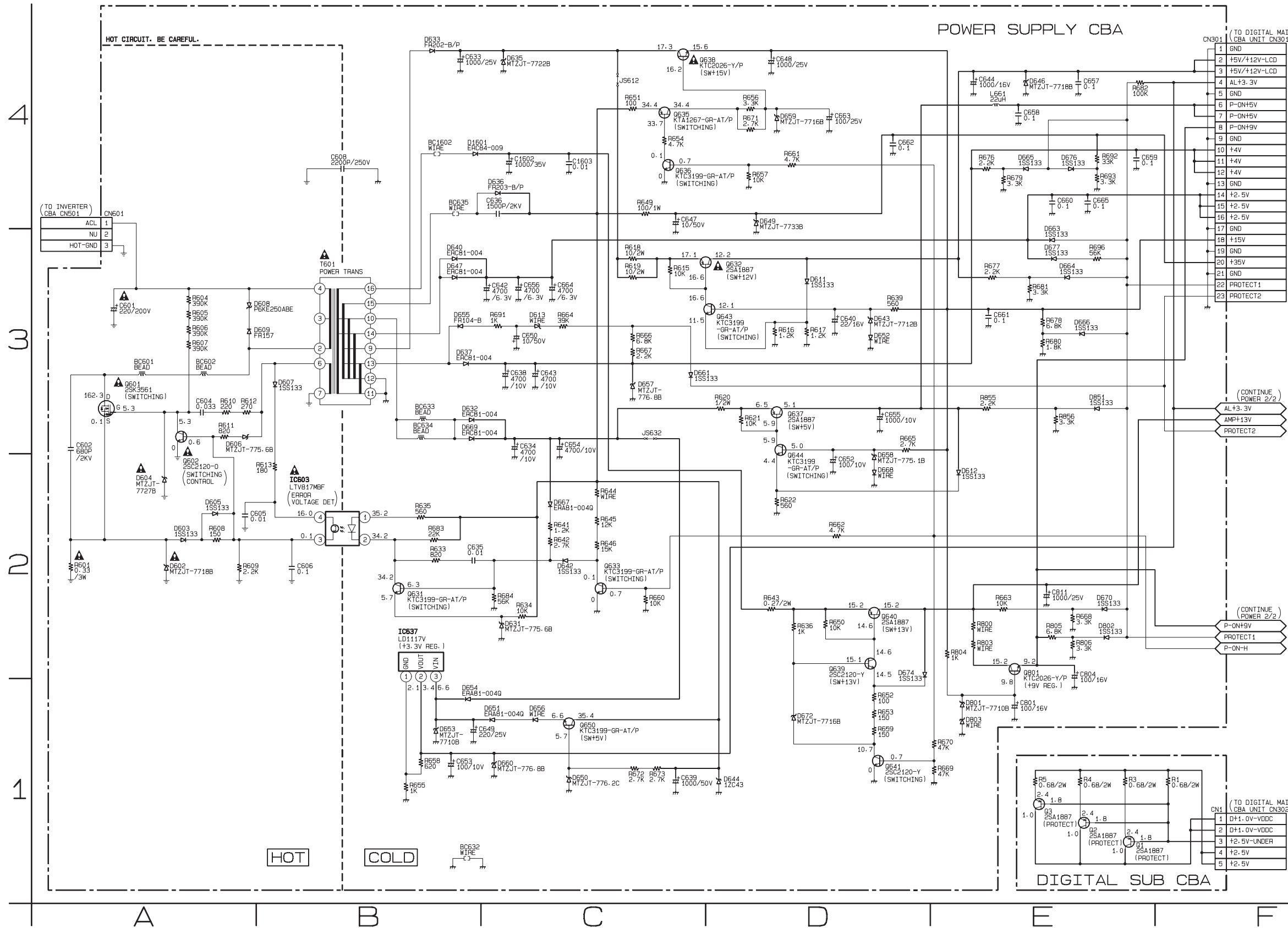


### 6. Test Point Information

- ⊕ : Indicates a test point with a jumper wire across a hole in the PCB.
- : Used to indicate a test point with a component lead on foil side.
- ⊗ : Used to indicate a test point with no test pin.
- : Used to indicate a test point with a test pin.

# Power Supply 1/2 & Digital Sub Schematic Diagram

**NOTE:**  
The voltage for parts in hot circuit is measured using hot GND as a common terminal.



## VOLTAGE CHART

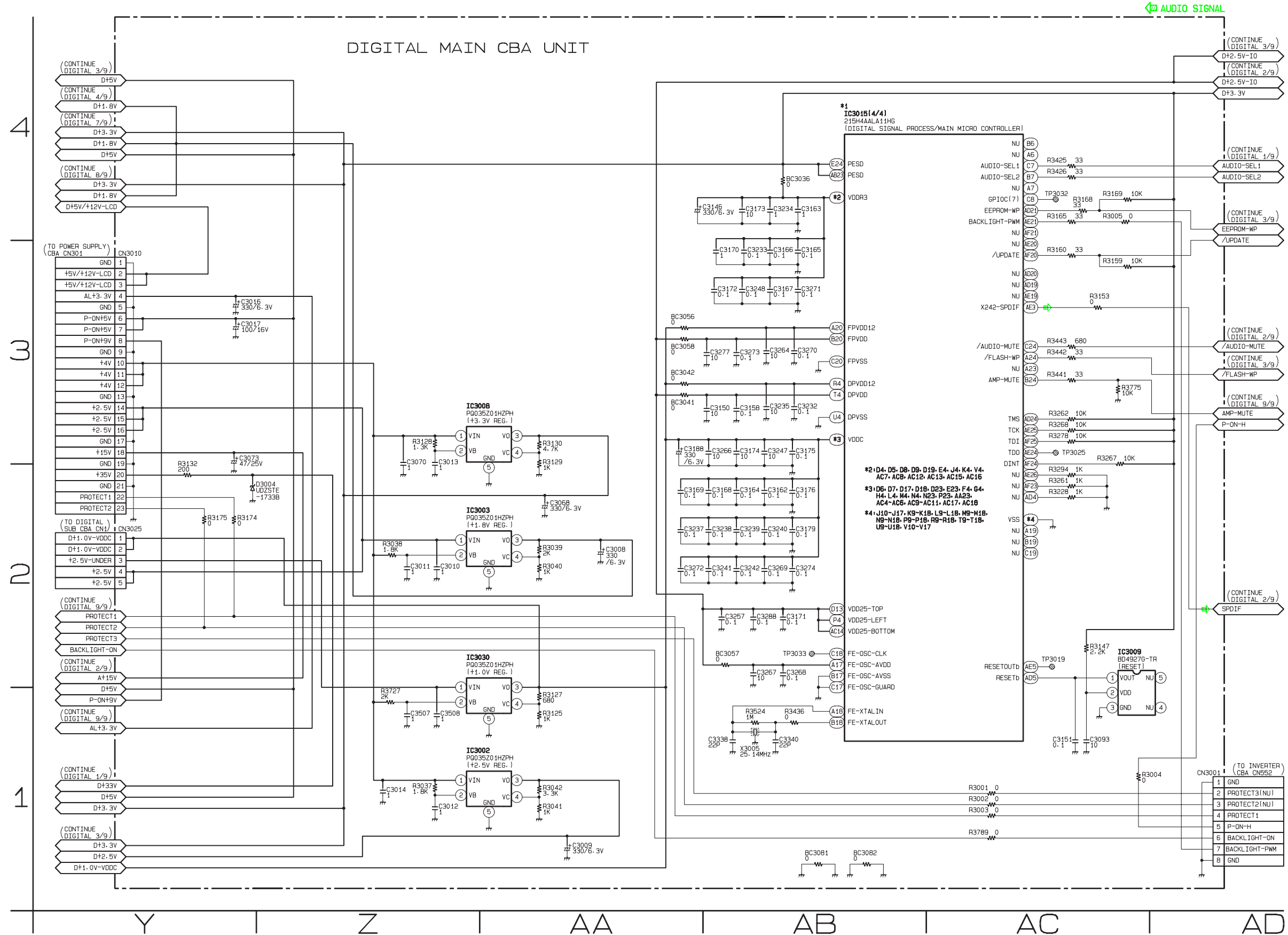
Pin No.	Voltage
1	0
2	12.2
3	12.2
4	3.4
5	0
6	5.0
7	5.0
8	9.2
9	0
10	5.1
11	5.1
12	5.1
13	0
14	2.5
15	2.5
16	2.5
17	0
18	15.6
19	0
20	34.6
21	0
22	3.2
23	1.1

# Digital Main 5/9 Schematic Diagram

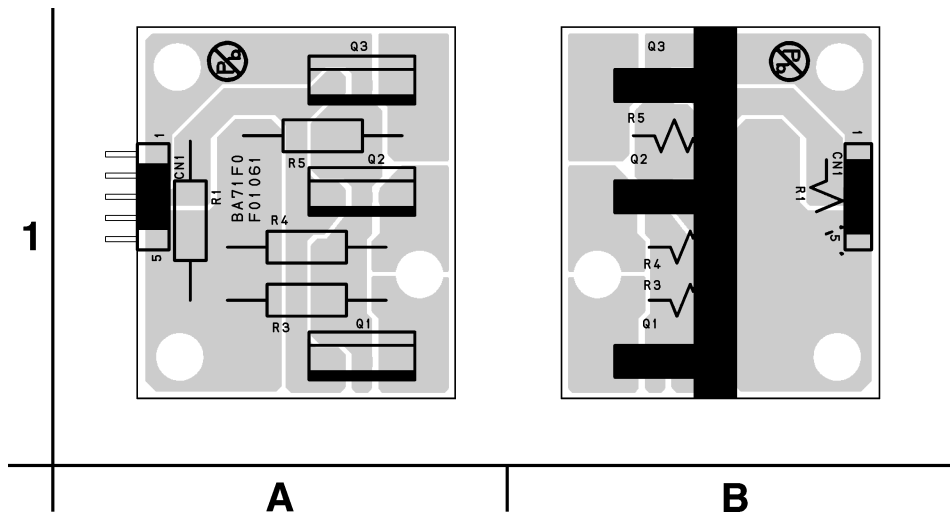
**\*1 NOTE:**

The order of pins shown in this diagram is different from that of actual IC3015.

IC3015 is divided into four and shown as IC3015 (1/4) ~ IC3015 (4/4) in this Digital Main Schematic Diagram Section.

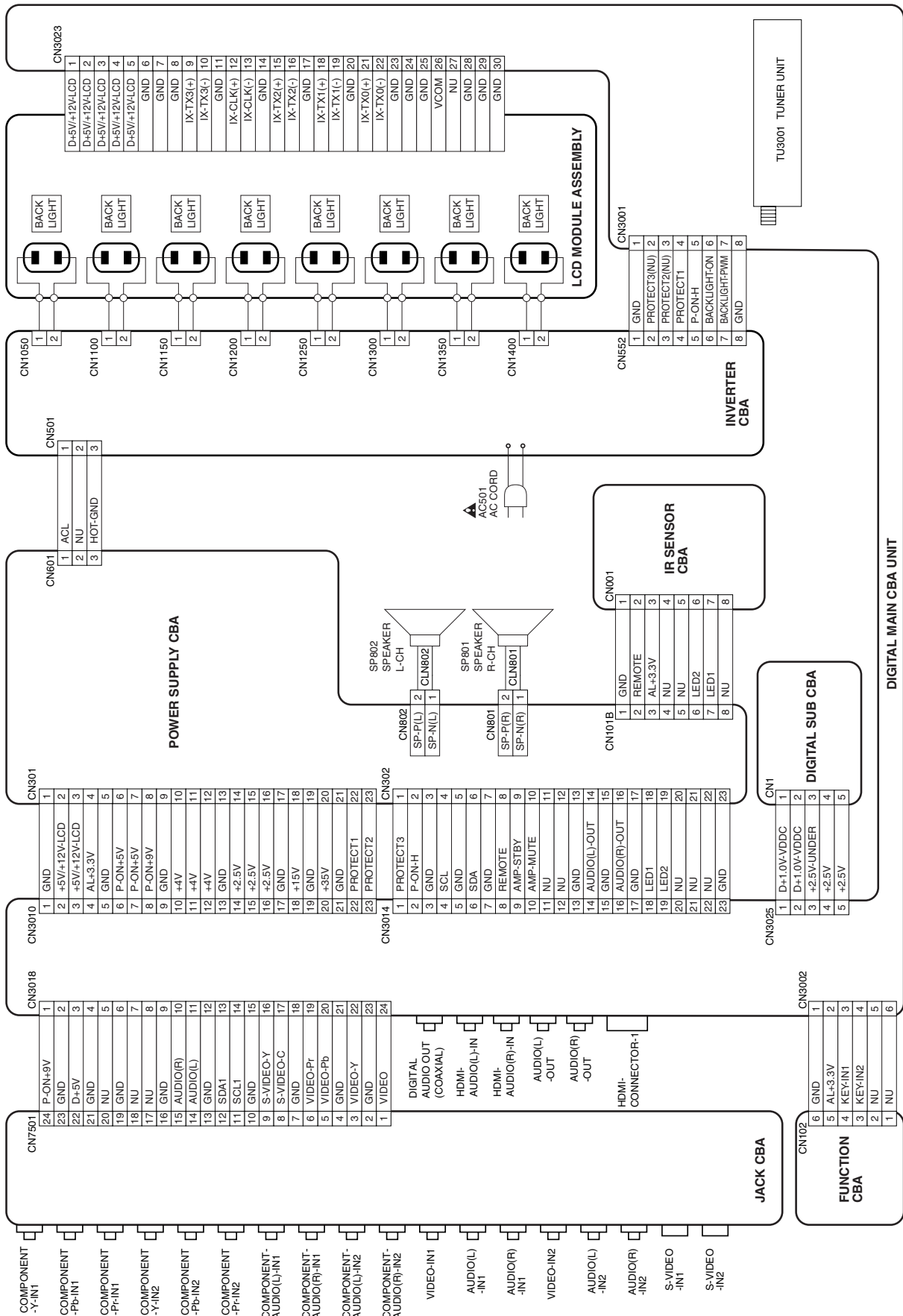


# Digital Sub CBA Top & Bottom View



BA71F0F01061

# WIRING DIAGRAM





# Different parts from the original model (LC370SS8)


Ref. No.	Description	Part No.
<b>MECHANICAL PARTS</b>		
A1	FRONT CABINET 37V A71G1UH	1EM021806
A4	REAR CABINET 37V A71G3UH	1EM021802
A6▲	RATING LABEL A71G1UH	-----
A9	STAND COVER 37V A71G1UH	1EM021807
A11	LED LENS A71A2UH	1EM322718
A14	JACK PLATE A71A1UH	1EM221627
A21	Not used	
A22	Not used	
B6	JACK HOLDER D A71A1UH	1EM221626
B28	Not used	
B43	Not used	
L19	Not used	
SP801	SPEAKER MAGNETIC YDP613-23	DSD1611EFU01
SP802	SPEAKER MAGNETIC YDP613-23	DSD1611EFU01
S12	CARTON (U) A71G1UH	1EM424586
X2▲	OWNERS MANUAL A71G1UH	1EMN22307
X9	Not used	
<b>ELECTRICAL PARTS</b>		
	DIGITAL MAIN CBA UNIT	1ESA14700
	MPS CBA	1ESA14701
	POWER SUPPLY CBA(MPS-1)	-----
C802	CHIP CERAMIC CAP.(1608) B K 0.47μF/16V	CHD1CK30B474
C803	CHIP CERAMIC CAP.(1608) B K 0.47μF/16V	CHD1CK30B474
C806	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	CHD1JK30B473
C807	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	CHD1JK30B473
C809	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	CHD1JK30B473
C810	CHIP CERAMIC CAP.(1608) B K 0.047μF/50V	CHD1JK30B473
C842	CHIP CERAMIC CAP.(1608) B K 0.47μF/16V	CHD1CK30B474
C843	CHIP CERAMIC CAP.(1608) B K 0.47μF/16V	CHD1CK30B474
L801	COIL RADIAL LHLP10NB680M 68μH	LLF6800TU003
L802	COIL RADIAL LHLP10NB680M 68μH	LLF6800TU003
L803	COIL RADIAL LHLP10NB680M 68μH	LLF6800TU003
L804	COIL RADIAL LHLP10NB680M 68μH	LLF6800TU003
R654	CARBON RES. 1/4W J 4.7K Ω	RCX4JATZ0472
	JACK CBA(MPS-4)	-----
C7515	Not used	
C7516	Not used	
R7515	Not used	
R7516	Not used	
R7517	Not used	
R7518	Not used	
JK7501	Not used	
	DIGITAL SUB CBA	1ESA15014
CN1	ANGLE PIN HEADER IMSA6029B105Z003PT1	JTED005ER045
Q1	PNP TRANSISTOR POWER 2SA1887(F)	QQWZ2SA1887F
Q2	PNP TRANSISTOR POWER 2SA1887(F)	QQWZ2SA1887F
Q3	PNP TRANSISTOR POWER 2SA1887(F)	QQWZ2SA1887F
R1	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68DP004

Ref. No.	Description	Part No.
R3	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68DP004
R4	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68DP004
R5	METAL OXIDE FILM RES. 2W J 0.68 Ω	RN02R68DP004

© 2007 Funai Electric Co., Ltd.

All rights reserved. No part of this manual may be reproduced, copied, transmitted, disseminated, transcribed, downloaded or stored in any storage medium, in any form or for any purpose without the express prior written consent of Funai. Furthermore, any unauthorized commercial distribution of this manual or any revision hereto is strictly prohibited.

Information in this document is subject to change without notice. Funai reserves the right to change the content herein without the obligation to notify any person or organization of such changes.

**FUNAI** with the  design is a registered trademark of Funai Electric Co., Ltd and may not be used in any way without the express written consent of Funai. All other trademarks used herein remain the exclusive property of their respective owners. Nothing contained in this manual should be construed as granting, by implication or otherwise, any license or right to use any of the trademarks displayed herein. Misuse of any trademarks or any other content in this manual is strictly prohibited. Funai shall aggressively enforce its intellectual property rights to the fullest extent of the law.