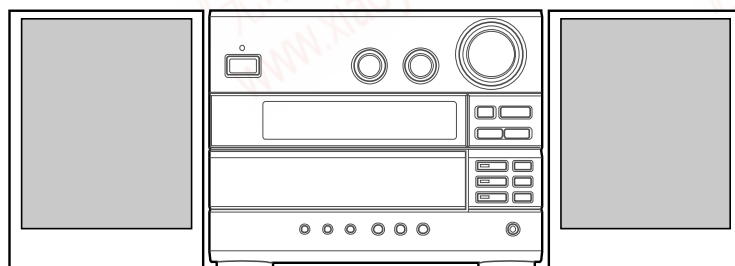




XR-EC10 U(S),UC(S)

XR-EC12 UC(S)



SERVICE MANUAL

CD STEREO SYSTEM

BASIC CD MECHANISM : CMCJ0129

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
XR-EC10	CX-SLEC10	SX-SLEC10	RC-CAS05
XR-EC12	CX-SLEC12	SX-SLEC12	

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/MCode 09-026-361-1T1).

aiwa

S/M Code No. 09-026-361-1R1

REVISION

DATA

TABLE OF CONTENTS

SPECIFICATIONS	3
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING	4
PRECAUTION TO REPALCE OPTICAL BLOCK (KSM-213 VSCM)	5
SERVICE NOTE	6
ACCESSORIES PARTS LIST	7
CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION	8-21
HOW TO ESTABLISH THE SERVICE POSITION	22, 23
ELECTRICAL PARTS LIST	24-38
TRANSISTOR ILLUSTRATION	39
BLOCK DIAGRAM	40, 41
SCHEMATIC DIAGRAM-1/7 (MAIN)-1/3	42
SCHEMATIC DIAGRAM-2/7 (MAIN)-2/3	43
SCHEMATIC DIAGRAM-3/7 (MAIN)-3/3	44
WIRING-1/5 (MAIN)	45
SCHEMATIC DIAGRAM-4/7 (AMP)	46
WIRING-2/5 (AMP)	47
SCHEMATIC DIAGRAM-5/7 (FRONT/KEY)	48
WIRING-3/5 (FRONT/KEY)	49
SCHEMATIC DIAGRAM-6/7 (TUNER)	50
WIRING-4/5 (TUNER)	51
SCHEMATIC DIAGRAM-7/7 (PT)	52
WIRING-5/5 (PT)	53
FL (HNA-11 SM26) GRID ASSIGNMENT/ANODE CONNECTION	54
ELECTRICAL ADJUSTMENT	55-59
CD TEST MODE	60
CD MECHANISM TEST MODE	61
IC BLOCK DIAGRAM	62
IC DESCRIPTION-1/2 (LC78646E)	64, 65
IC DESCRIPTION-2/2 (LC876764A - 5Z85)	66, 67
MECHANICAL EXPLODED VIEW	68
MECHANICAL PARTS LIST	69
COLOR NAME TABLE	70
CD MECHANISM EXPLODED VIEW (CMCJ0129)	71
CD MECHANISM PARTS LIST (CMCJ0129)	72
SPEAKER DISASSEMBLY INSTRUCTIONS	73
SPEAKER PARTS LIST	74
OTHERS PARTS LIST (CX-SLEC10)	75

SPECIFICATIONS -1/1

MAIN UNIT

TUNER

FM tuning range	87.5 MHz to 108 MHz
FM usable sensitivity (IHF)	13.2 dBf
FM antenna terminal	75 ohms (unbalanced)
AM tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
AM usable sensitivity	350 μ V/m
AM antenna	Loop antenna

AMPLIFIER

Power output	24 W + 24 W (40 Hz - 20 kHz, THD less than 1 %, 6 ohms) 30 W + 30 W (1 kHz, THD 10 %, 6 ohms)
Total harmonic distortion	0.06 % (15 W, 1 kHz, 6 ohms, DIN AUDIO)
Input	LINE IN: 500 mV
Outputs	LINE OUT: 200 mV SPEAKERS: 6 ohms or more PHONES: 32 ohms or more DIGITAL OUT (OPTICAL) jack

CD PLAYER

Laser	Semiconductor laser ($\lambda = 780$ nm)
D/A converter	1 bit dual
Signal-to-noise ratio	88 dB (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

GENERAL

Power requirements	120 V AC, 60 Hz
Power consumption	50 W
Power consumption in standby mode	With ECO mode on: 0.6 W With ECO mode off: 16 W
Dimensions (W $\times$ H $\times$ D)	218.5 $\times$ 169 $\times$ 318 mm (8 $\frac{5}{8}$ $\times$ 6 $\frac{3}{4}$ $\times$ 12 $\frac{5}{8}$ in.)
Weight	5.1 kg (11 lbs 4 oz)

SPEAKER SYSTEM SX-LEC10

Speakers system	2 way, bass reflex (magnetic shielded)
Speaker units	Woofer: 100 mm cone Tweeter: 25 mm dome
Impedance	6 ohms
Dimensions (W $\times$ H $\times$ D)	215 $\times$ 169 $\times$ 200 mm (8 $\frac{1}{2}$ $\times$ 6 $\frac{3}{4}$ $\times$ 7 $\frac{7}{8}$ in.)
Weight	2.0 kg (4 lbs 7 oz)

SPEAKER SYSTEM SX-LEC12

Speaker system	2 way, bass reflex (magnetic shielded)
Speaker units	Woofer: 120 mm cone Tweeter: 25 mm dome
Impedance	6 ohms
Dimensions (W $\times$ H $\times$ D)	155 $\times$ 250 $\times$ 218 mm (6 $\frac{1}{8}$ $\times$ 9 $\frac{7}{8}$ $\times$ 8 $\frac{5}{8}$ in.)
Weight	2.3 kg (5 lbs 1 oz)

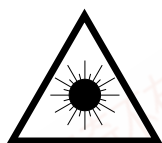
- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING -1/1

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylit-tävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

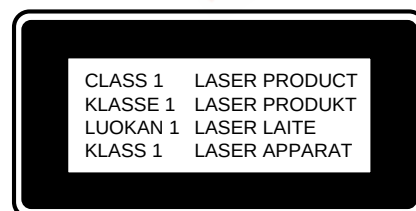
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

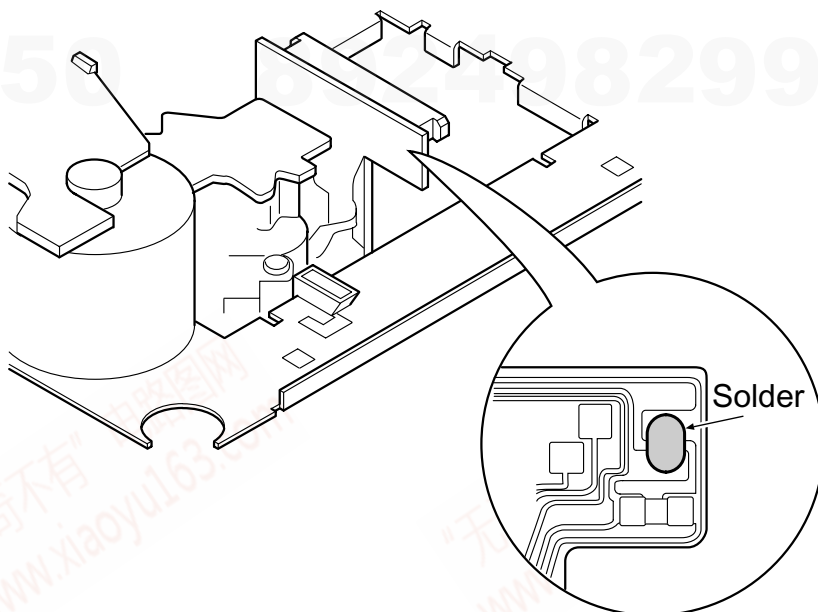
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



PRECAUTION TO REPALCE OPTICAL BLOCK (KSM-213 VSCM) -1/1

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.



SERVICE NOTE -1/1

When the repair/maintenance work is completed, attach the TAG (Aiwa part code: 8C-CL3-038-010) as follows.

1. While pressing the CL button, insert the AC power plug. Confirm that all FL display tubes light.
2. Press the PRESET button and confirm the M/TEST display.
3. Press the DISC2 OPEN/CLOSE button to open the Drawer.
4. Attach the TAG as shown in Fig. 1-3.



Fig.1-1

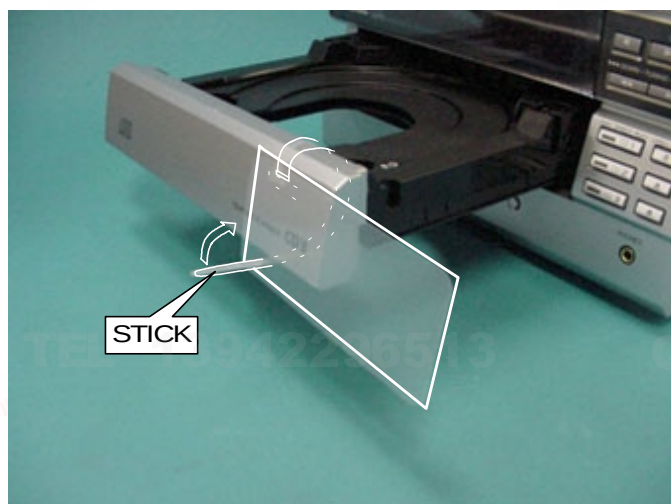


Fig.1-2

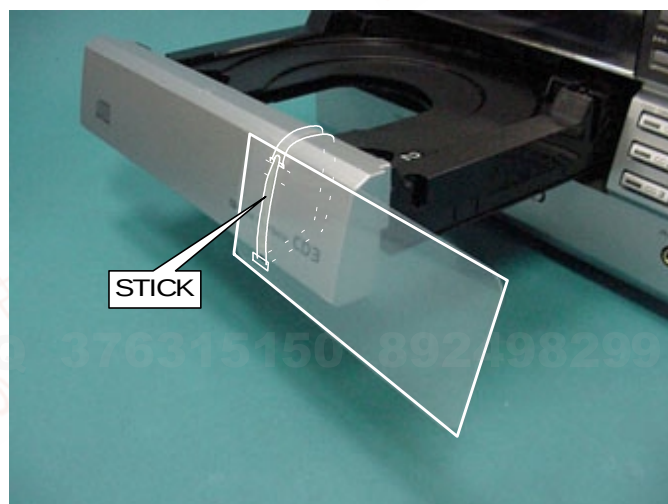


Fig.1-3

5. Press the DISC2 OPEN/CLOSE button to close the Drawer.
6. Press the DISC3 DIRECT PLAY button to active the INITIAL operation.
7. Disconnect the AC power plug from the wall outlet.

ACCESSORIES PARTS LIST -1/1

! = SAFETY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.
However, please note that not all components will be available as spare parts for after-sales service.
Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
	X	AS1001	87-006-226-010	ANT, LOOP AM	a	b	c
	X	AS1002	87-A92-345-010	ANT, WIRE FM(SEMI-ST)	a	b	c
	O	AS1003	8C-CL3-701-110	RC UNIT, RC-CAS05	a	b	c
	X	AS1004	87-B50-053-010	WARR-CARD, USA CUST/AV, VISUAL	a	b	c
	X	AS1005	87-B50-094-010	WARR-CARD, C(E) A/V-0104	.	b	c
	X	AS1006	87-B50-095-010	WARR-CARD, C(F) A/V-0104	.	b	c
	O	AS1007	8C-CL3-903-010	IB, UC(ESF)M EC10/EC12	a	b	c

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -1/14

MECHANISM DISASSEMBLY INSTRUCTIONS

1. Remove the COVER 2.
2. Open the DRAWER.
3. Remove DRAWER from mechanism.
4. Remove ASS'Y CRG4 from CHASSIS.
5. Remove CRG from DRAWER ASS'Y.
6. ASS'Y HOLDER, ASS'Y GEAR DRIVE.
7. Remove BELT, MOTOR.
8. SWITCH6 OPEN/CLOSE, SWITCH7 FWD, SWITCH RVS.
9. SWITCH2 EXTRA, SWITCH HOME.
10. SWITCH4 DISC2, SWITCH DISC1.
11. P/U UNIT.
12. Remove ARM STOPPER B, ASS'Y SLIDER 2 and SLIDER 1.

MECHANISM RE-ASSEMBLY INSTRUCTION

1. ASS'Y HOLDERS, ASS'Y GEAR DRIVE.
2. ASS'Y CRG.
3. DRAWER.
4. How To Identify ASS'Y CRG Numbers.

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -2/14

MECHANISM DISASSEMBLY INSTRUCTIONS

1. Remove the COVER 2

Remove the four screws and remove COVER 2.

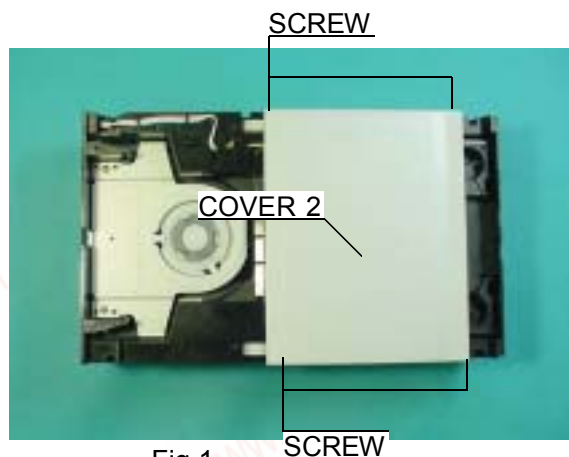


Fig.1

2. Open the DRAWER

Press the Lever in the bottom left of mechanism as shown (Fig.2-b Fig.2-c).

Lock of the DRAWER is released so that you can open the DRAWER.

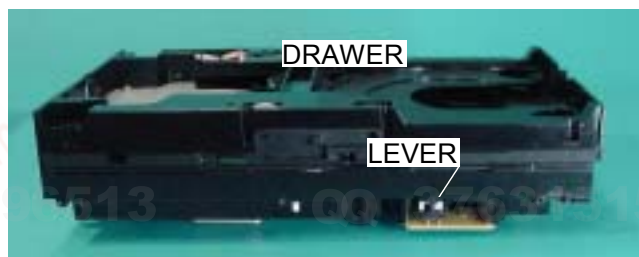


Fig.2-a

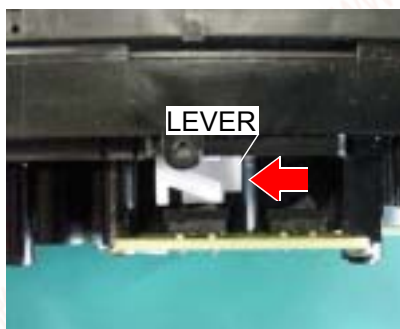


Fig.2-b

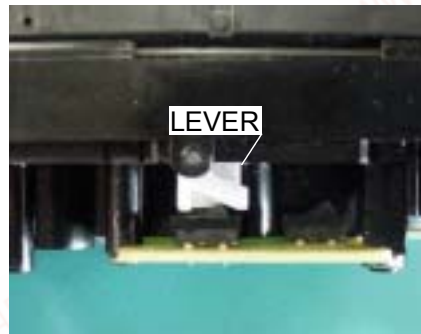


Fig.2-c

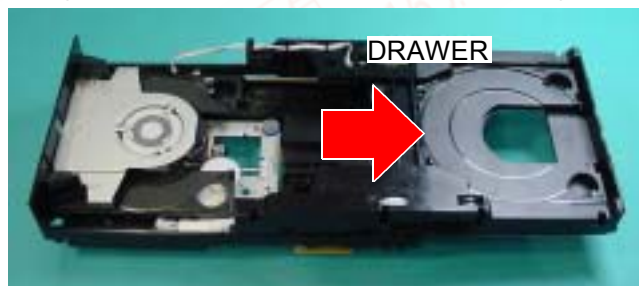


Fig.2-d

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -3/14

3. Remove DRAWER from mechanism

1) Open the HOOK to the right and left of the CHASSIS that fix the DRAWER.

At the same time, while pressing the DRAWER toward inside, raise the DRAWER and remove it.

* The DRAWER and the CHASSIS are connected by wire. Be careful of the connection.

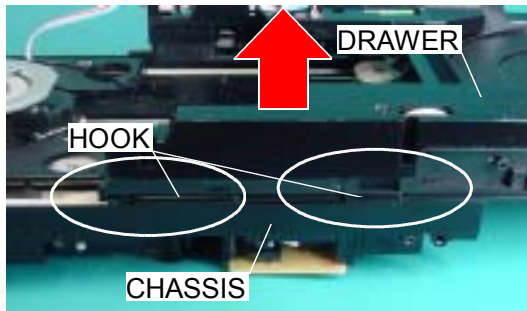


Fig.3-a

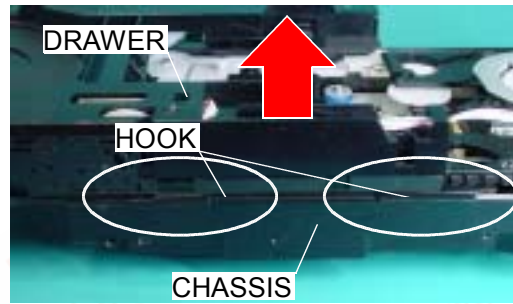


Fig.3-b

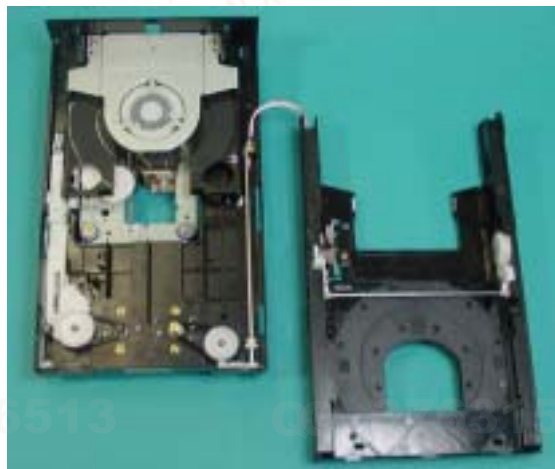


Fig.3-c

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -4/14

4. Remove CRG from CHASSIS ASS'Y

- 1) Remove COVER 2. (Refer to "1. Remove the COVER 2".)
- 2) Remove DRAWER. (Refer to "2. Open the DRAWER" and "3. Remove the DRAWER from mechanism".)
- 3) While fixing the ARM STOPPER B inside, press the lever on the left side of the CHASSIS in the direction of the arrow.

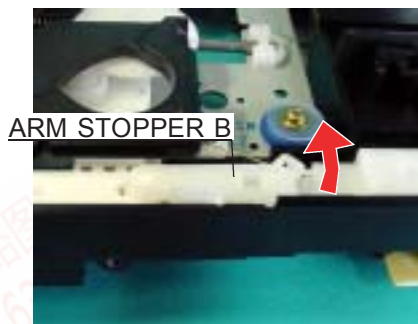


Fig.4-a

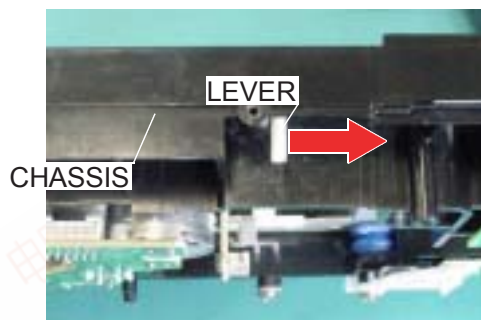


Fig.4-b

- 4) As the ASS'Y CLAMPER is raised up, remove the ASS'Y CRG.



Fig.4-c

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -5/14

5. Remove ASS'Y CRG from DRAWER

- 1) Remove COVER 2. (Refer to "1. COVER 2".)
- 2) Remove DRAWER. (Refer to "2. Open the DRAWER" and "3. Remove the DRAWER from mechanism".)
- 3) Rotate the BEVEL GEAR in the direction (counter-clockwise direction) of the arrow as shown.

The PINION ASS'Y rotates and the CRG moves.

* Because the BEVEL GEAR can be easily drop, be careful not to drop.

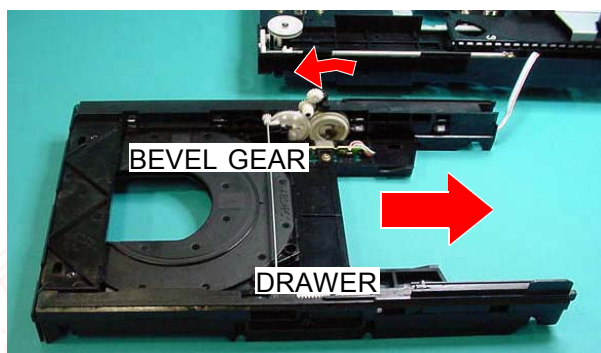


Fig.5-a

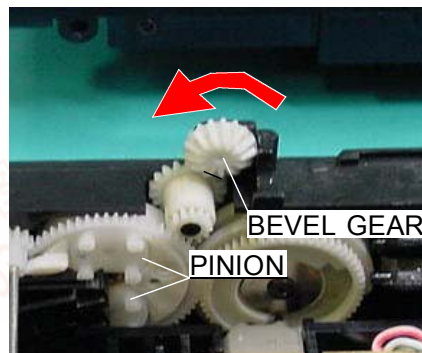


Fig.5-b

- 2) Further from the position where the ASS'Y CRG has moved up to the deep end, rotate the BEVEL GEAR further more.
- 3) While rotating the STAR GAER, raise the ASS'Y CRG and remove it.

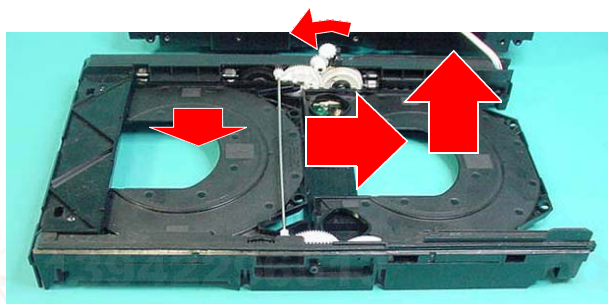


Fig.5-c

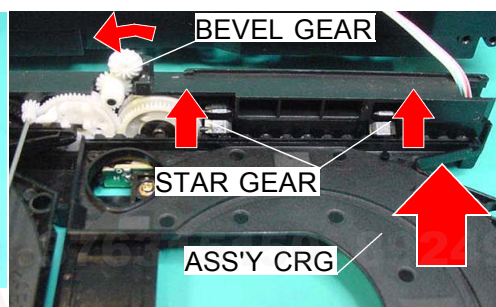


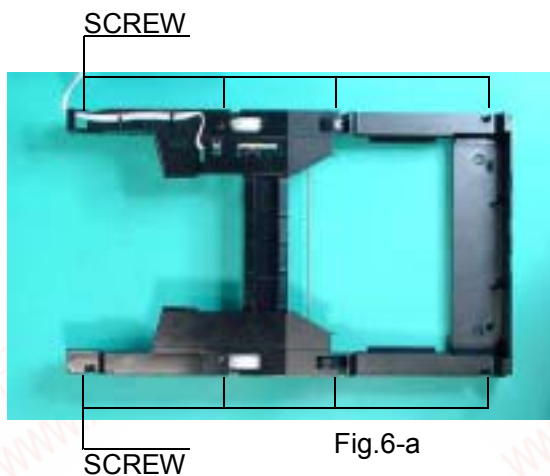
Fig.5-d

- 4) Rotate the BEVAL GAER in the same way and remove the second ASS'Y CRG.

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -6/14

6. Remove the ASS'Y HOLDER and ASS'Y GEAR DRIVE

- 1) Remove the COVER 2. (Refer to "1. COVER 2".)
- 2) Remove the DRAWER 2. (Refer to "2. Open the DRAWER" and "3. Remove the DRAWER from mechanism".)
- 3) Remove the four screws each of the DRAWER and remove the ASS'Y HOLDER, ASS'Y GEAR DRIVE.



7. Remove the BELT, MOTOR

- 1) Remove the COVER 2. (Refer to "1. Remove the COVER 2".)
- 2) Remove the DRAWER. (Refer to "2. Open the DRAWER" and "3. Remove the DRAWER from mechanism".)
- 3) Remove the BELT and remove the two screws each of the MOTOR.

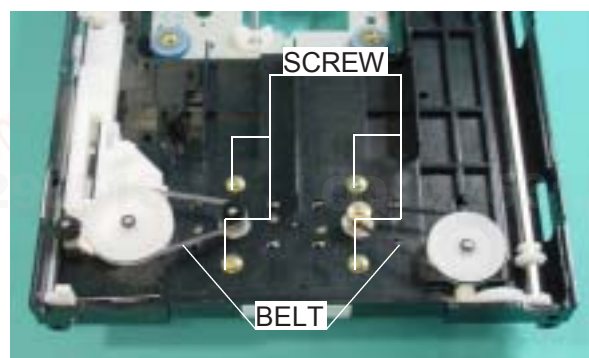


Fig.7-a

- 4) Remove the four screws fixing the C.B., and remove the soldering. Then remove the MOTOR.

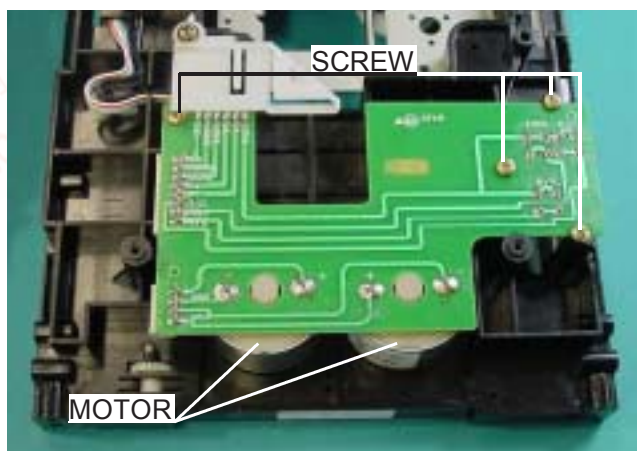


Fig.7-b

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -7/14

8. SWITCH6 (OPEN / CLOSE), SWITCH7 (FWD), SWITCH8 (RVS)

- 1) Remove the four screws fixing the C.B. in the bottom of the mechanism.
- 2) Remove soldering of the MOTOR terminal and remove the C. B.
- 3) You can replace the SWITCH in this state.

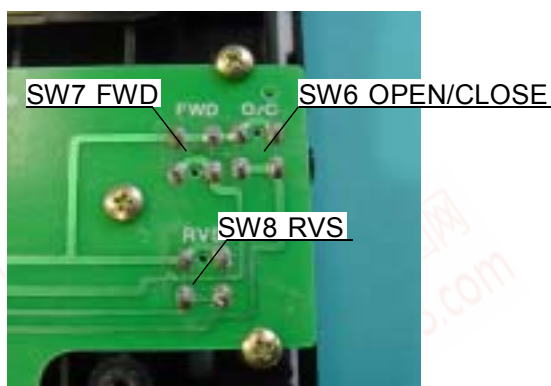


Fig.8

9. SWITCH2 (EXTRA), SWITCH3 (HOME)

- 1) Remove the COVER 2. (Refer to “1. COVER 2”.)
- 2) Remove the DRAWER. (Refer to “2. Open the DRAWER” and “3. Remove the DRAWER from mechanism”.)
- 3) Remove the screw of the DRAWER and remove the SPACER.
- 4) You can replace the SWITCH by releasing the HOOK at the two locations.

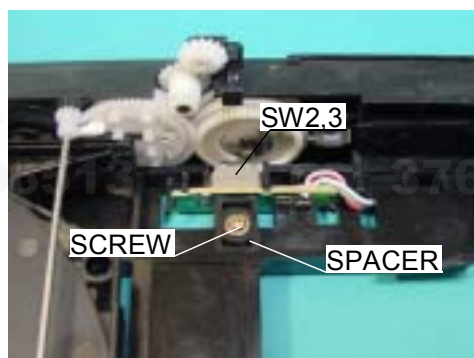


Fig.9

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -8/14

10.SWITCH4 (DISC2), SWITCH5 (DISC1)

- 1) Remove the COVER 2. (Refer to "1. COVER 2".)
- 2) Open the DRAWER. (Refer to "2. Open the DRAWER".)
- 3) Remove the ASS'Y CRG from the CHASSIS. (Refer to "4. Remove the ASS'Y CRG from CHASSIS".)
- 4) While holding the front side of the LIFTER in the right, remove the LIFTER in the right and remove the SPRING.
- 5) Open the top rear of the CHASSIS and remove the ASS'Y CLAMPER.

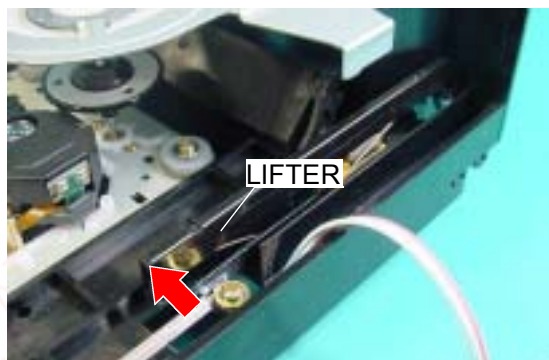


Fig.10-a

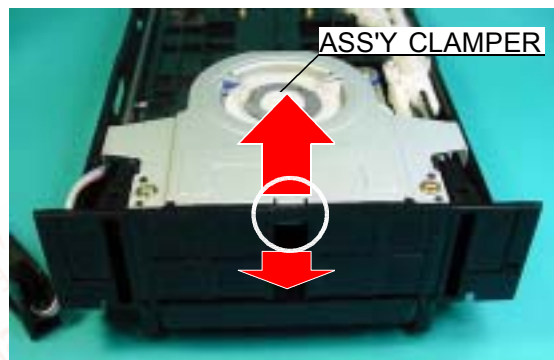


Fig.10-b

- 6) While pressing the portions fixing C.B. to the CHASSIS, rotate the C.B. clockwise and remove the C.B.

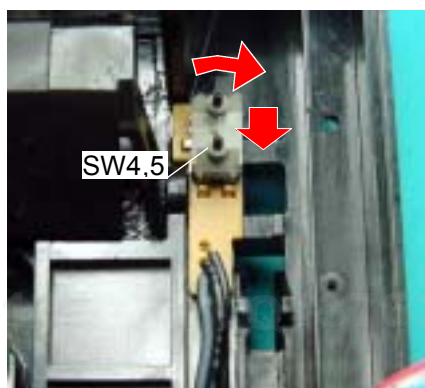


Fig.10-c

Note when installing SPRING to the LIFTER

Install the SPRING to the LIFTER as shown in the illustration.

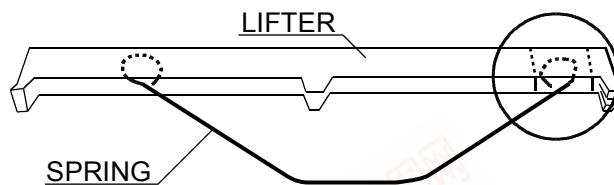


Fig.10-d

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -9/14

11.P/U UNIT

- 1) Remove the COVER 2. (Refer to “1. Remove the COVER 2”.)
- 2) Open the DRAWER. (Refer to “2. Open the DRAWER”.)
- 3) Remove the ASS'Y CRG from the CHASSIS. (Refer to “4. Remove the ASS'Y CRG from the CHASSIS”.)
- 4) Remove the ASS'Y CLAMPER. (Refer to “10. SWITCH4, SWITCH5 5”).)
- 5) You can remove the four screws of the P/UUNIT in this state.

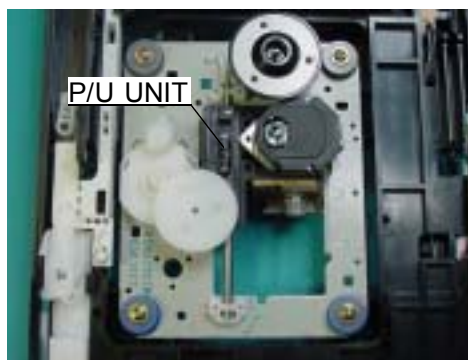


Fig.11

12.Remove the ARM STOPPER B, ASS'Y SLIDER 2 and SLIDER 1

- 1) Remove the COVER 2. (Refer to “1. Remove the COVER 2”.)
- 2) Remove the DRAWER. (Refer to “2. Open the DRAWER” and “3. Remove the DRAWER from mechanism”.)
- 3) Remove the ASS'Y CRG from the CHASSIS. (Refer to “4. Remove ASS'Y CRG from CHASSIS”.)
- 4) Remove the ASS'Y CLAMPER. (Refer to “10. SWITCH4, SWITCH5 5”).)
- 5) Remove the SPRING in the order of a, b then c.
- 6) Remove the ARM STOPPER B by rotating it counter-clockwise.

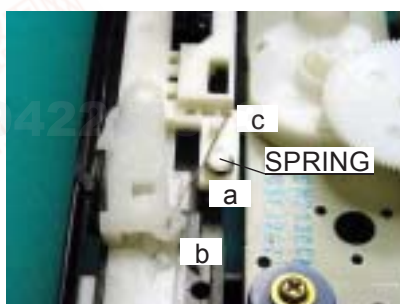


Fig.12-a



Fig.12-b

- 7) Remove the BELT and push the ASS'Y SLIDER 2 to the front.
- 8) While pushing the HOOK under the PULLEY A and push it to the front to remove the ASS'Y.

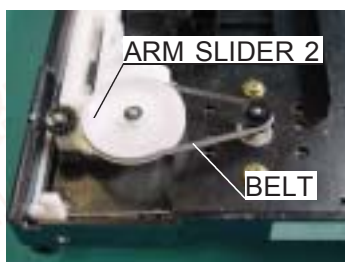


Fig.12-c

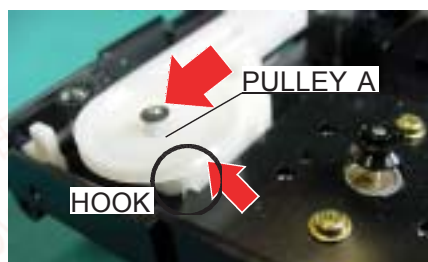


Fig.12-d

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -10/14

9) Pull the SLIDER1 towards the front.

10) Release the claws of the SLIDER 1 from the bottom of the CHASSIS and remove the SLIDER 1.

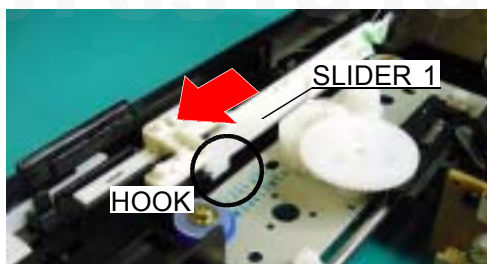


Fig.12-e Top view



Fig.12-f Bottom view

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -11/14

MECHANISM RE-ASSEMBLY INSTRUCTION

1. ASS'Y HOLDER, ASS'Y GEAR DRIVE

- 1) Tighten the ASS'Y HOLDER L and the ASS'Y HOLDER R with four screws each tentatively.
- 2) Align the positions (marks) of the CAM RR, CAM RF and those of the CAM LR, CAM LF.

If these positions are aligned correctly, you cannot move the ASS'Y CRG correctly.



Fig.1-a

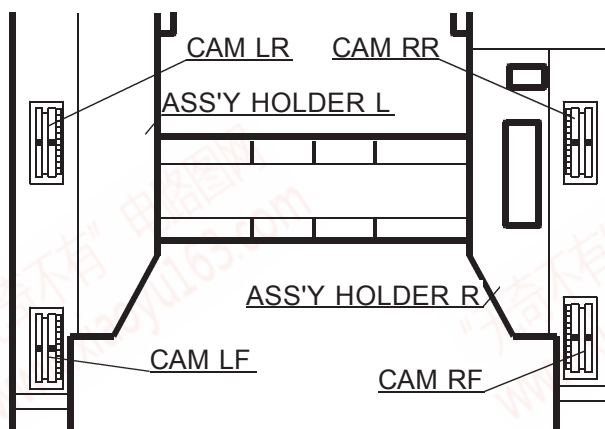


Fig.1-b

- 3) While opening the ASS'Y HOLDER towards outside, install the ASS'Y GEAR DRIVE.

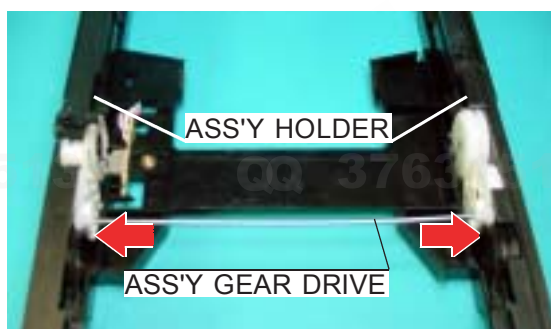


Fig.1-c

- 4) Tighten the screws of the ASS'Y HOLDER finally.
- 5) Confirm again that the positions (marks) of the CAM RR and those of the CAM LR are aligned correctly.

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -12/14

2. ASS'Y CRG

- 1) Confirm position of the CAM RR 3. (Refer to "1. ASS'Y HOLDER, ASS'Y GEAR DRIVE".)
- 2) Insert the ASS'Y CRG A201 (No.2) and engage the PINION as shown in illustration.
- 3) Rotate the BEVEL GEAR clockwise.
Insert the ASS'Y CRG into the DRAWER.

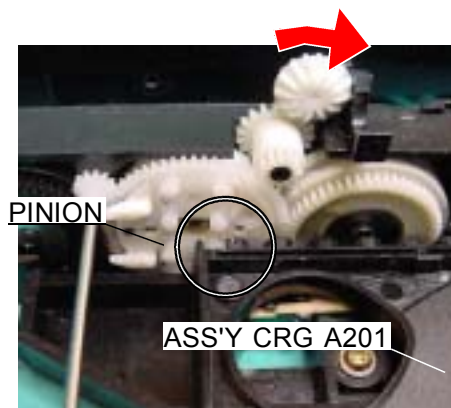


Fig.2-a

- 4) When the first ASS'Y CRG A201 (No.2) is inserted correctly, insert the second ASS'Y CRG A101 (No.1) in the same way as step 2).
- 5) When you rotate the BEVEL GEAR clockwise, the first ASS'Y CRG A201 will be raised by the STAR GEAR. Then raise the ASS'Y CRG A201 by holding it with hand so that it should not be stacked.

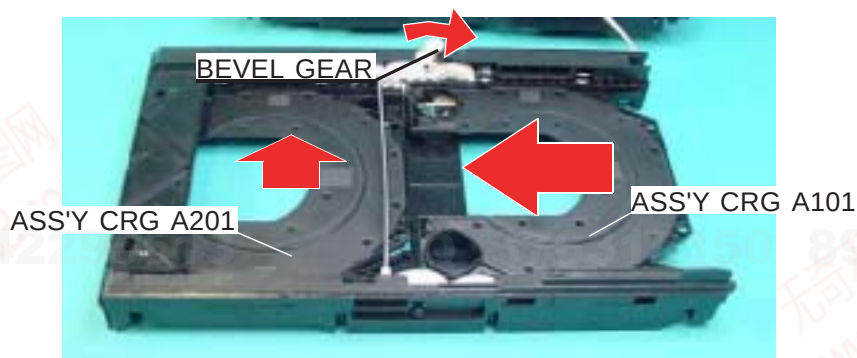


Fig.2-b

- 6) Rotate the BEVEL GEAR further. Then second ASS'Y CRG A101 DRAWER will be installed in the correct place.
- 7) Confirm again that position of the CAM RR 3 is correct.

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -13/14

3. DRAWER

- 1) Insert the protrusion in the deep end in the left of the DRAWER into the position of the ARM STOPPER B.



Fig.3-a

- 2) While pressing down the left side of the DRAWER, raise the right side of the DRAWER and engage the claws in the deep end in the left of the CHASSIS in the order of a then b.

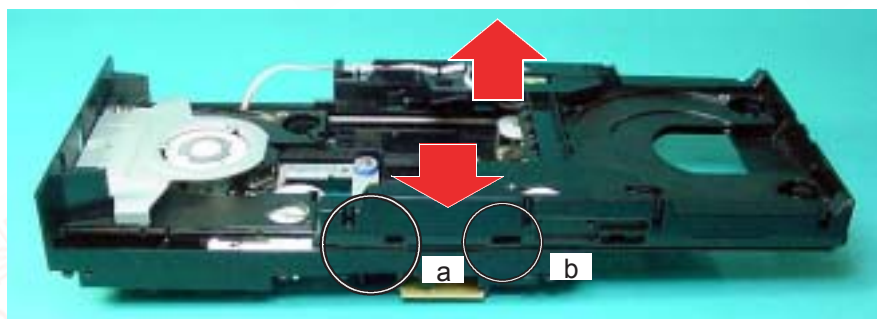


Fig.3-b

- 3) Engage the groove of the BEVEL GEAR of the CHASSIS side with the BEVEL GEAR block of the DRAWER, and install the DRAWER. (Fig.3-d).



Fig.3-c

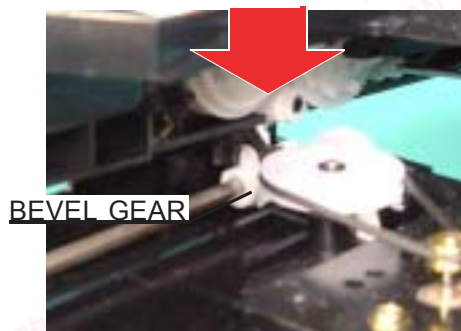


Fig.3-d

CD MECHANISM DISASSEMBLY INSTRUCTIONS AND RE-ASSEMBLY INSTRUCTION -14/14

- 4) After opening the DRAWER completely, close it.



Fig.3-e

- 5) Press the lever of the SLIDER to the deep end and stop it at the position shown in Fig.3-g.

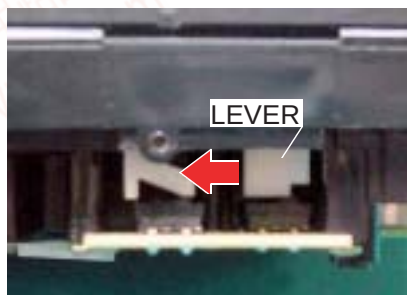


Fig.3-f

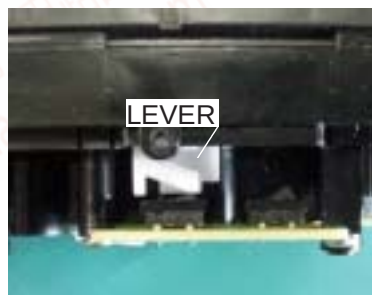


Fig.3-g

4. How To Identify ASS'Y CRG Numbers

The ASS'Y CRG numbers can be identified by the BOSS on the rear.



Fig.4-a ASS'Y CRG



Fig.4-b ASS'Y CRG A101(NO.1)



Fig.4-c ASS'Y CRG A201(NO.2)



Fig.4-d ASS'Y CRG A301(NO.3)

HOW TO ESTABLISH THE SERVICE POSITION -1/2

1. Remove the screws from the Outside Cabinet and remove the Side Cabinet.
2. Remove the screws "1" and remove the Top Cabinet. (See Fig. 1-1.)

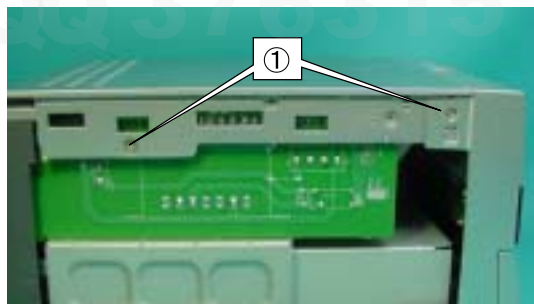


Fig.1-1

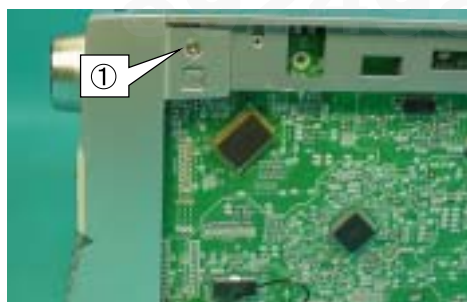


Fig.1-2

3. Remove the Rear Cabinet.
4. Press the level on the left side of the CD mechanism as shown in Fig. 2-1 and Fig. 2-2 (pressing the lever from Fig. 2-1 to Fig. 2-2) to open the Drawer.



Fig.2-1

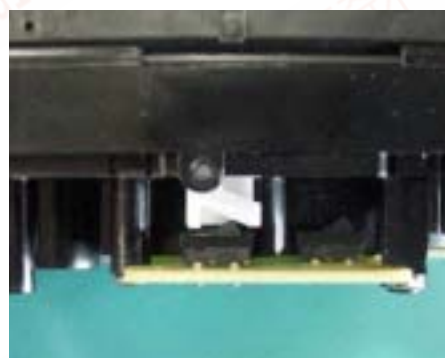
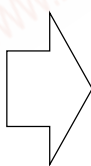


Fig.2-2

5. Remove the cover of the Drawer and close the Drawer.



Fig.3-1



Fig.3-2

6. Remove the three screws (from the both sides and bottom) fixing the Front Section and remove the Front Section.
7. Short-circuit the shorting lands of the optical pick-up unit at the location shown as "2" in Fig. 4-1. Remove the four screws "3".

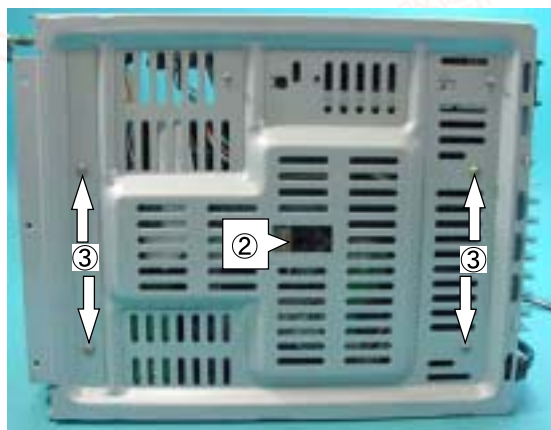


Fig.4-1

HOW TO ESTABLISH THE SERVICE POSITION -2/2

8. Remove the connector and FFC (flat flexible cable) and remove the CD mechanism.

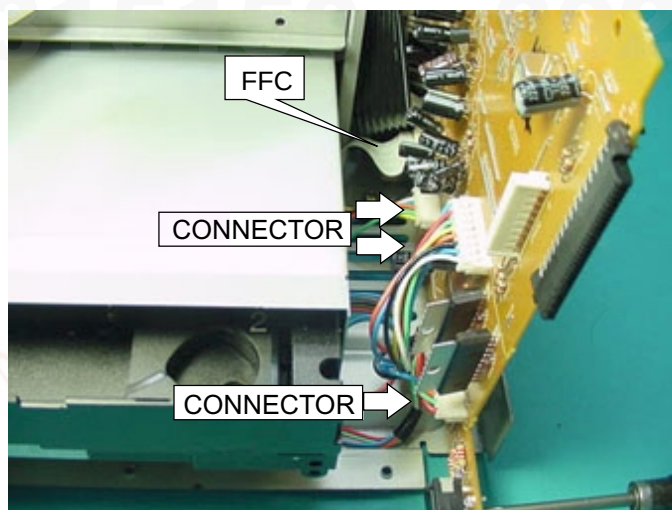


Fig.5-1

9. Remove the four screws “4” from the Rear of the Main Unit and separate the Main Board from the Main Unit as shown in Fig. 6-2.

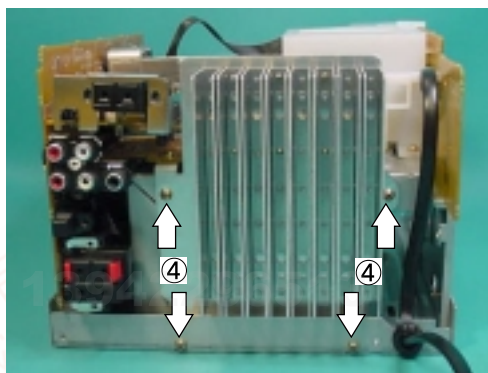


Fig.6-1



Fig.6-2

10. Connect the Front Section, Main Board and CD mechanism as shown Fig. 6-1.
Use the jig Extension (Tanaka) SV-J00-019-010 for connecting the Front Section and the Main Board.

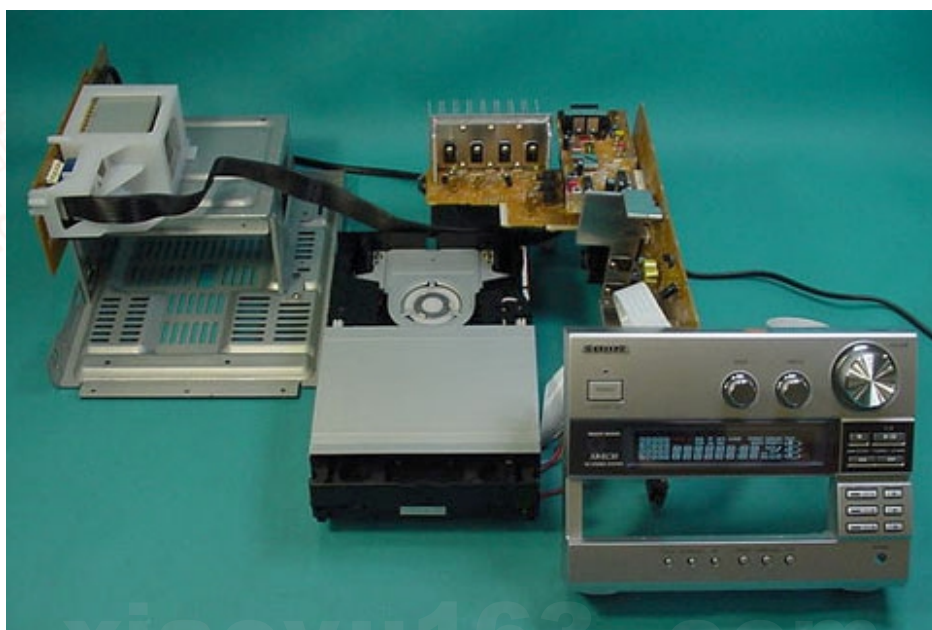


Fig.7-1

ELECTRICAL PARTS LIST -1/15

! = SAFETY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.

However, please note that not all components will be available as spare parts for after-sales service.

Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.

Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
AMP	O C	0097	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
AMP	X C	0099	88-108-000-080	C-JUMPER,U	a	b	c
AMP	O C	0101	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c
AMP	O C	0102	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c
AMP	O C	0103	87-A13-074-080	CAP,E 4.7-50 M FW	a	b	c
AMP	O C	0104	87-A13-074-080	CAP,E 4.7-50 M FW	a	b	c
AMP	O C	0105	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c
AMP	O C	0106	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c
AMP	O C	0107	87-A13-022-080	CAP,E 47-50 M VR-GS0	a	b	c
AMP	O C	0108	87-A13-022-080	CAP,E 47-50 M VR-GS0	a	b	c
AMP	O C	0109	87-012-188-080	C-CAP,U 47P-50 J CH GRM	a	b	c
AMP	O C	0110	87-012-188-080	C-CAP,U 47P-50 J CH GRM	a	b	c
AMP	O C	0111	87-A12-076-080	CAP,E 22-35 SMG	a	b	c
AMP	O C	0112	87-A12-076-080	CAP,E 22-35 SMG	a	b	c
AMP	O C	0113	87-012-186-080	C-CAP,U 39P-50 J CH GRM	a	b	c
AMP	O C	0114	87-012-186-080	C-CAP,U 39P-50 J CH GRM	a	b	c
AMP	O C	0117	87-A12-317-080	C-CAP,U 0.1-50 Z F	a	b	c
AMP	O C	0118	87-A12-317-080	C-CAP,U 0.1-50 Z F	a	b	c
AMP	O C	0119	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c
AMP	O C	0120	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c
AMP	O C	0123	87-012-273-080	C-CAP,U 820P-50 K B GRM	a	b	c
AMP	O C	0124	87-012-273-080	C-CAP,U 820P-50 K B GRM	a	b	c
AMP	O C	0133	87-012-282-080	C-CAP,U 4700P-50 K B GRM	a	b	c
AMP	O C	0140	87-012-278-080	C-CAP,U 2200P-50 K B GRM	a	b	c
AMP	O C	0186	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
AMP	O C	0187	87-A12-094-080	CAP,E 47-50 SMG	a	b	c
AMP	O C	0188	87-A12-094-080	CAP,E 47-50 SMG	a	b	c
AMP	O C	0193	87-A12-317-080	C-CAP,U 0.1-50 Z F	a	b	c
AMP	O C	0194	87-A12-317-080	C-CAP,U 0.1-50 Z F	a	b	c
AMP	O CN	0101	87-A61-013-010	CONN,15P H BLK TAC-L15P-A3	a	b	c
AMP	S D	0101	87-A40-269-080	C-DIODE,MC2836	a	b	c
AMP	S D	0103	87-020-465-080	DIODE,1SS133	a	b	c
AMP	S D	0104	87-020-465-080	DIODE,1SS133	a	b	c
AMP	S D	0105	87-A40-269-080	C-DIODE,MC2836	a	b	c
AMP	S D	0106	87-A40-269-080	C-DIODE,MC2836	a	b	c
AMP	S D	0115	87-A40-270-080	C-DIODE,MC2838	a	b	c
AMP	S D	0117	87-020-465-080	DIODE,1SS133	a	b	c
AMP	S D	0118	87-020-465-080	DIODE,1SS133	a	b	c
AMP	S D	0119	87-020-465-080	DIODE,1SS133	a	b	c
AMP	S D	0120	87-020-465-080	DIODE,1SS133	a	b	c
AMP	S D	0150	87-A40-270-080	C-DIODE,MC2838	a	b	c
AMP	S D	0160	87-A40-270-080	C-DIODE,MC2838	a	b	c
AMP	S D	0183	87-070-022-010	DIODE,1N5402	a	b	c
AMP	S D	0184	87-070-022-010	DIODE,1N5402	a	b	c
AMP	S D	0187	87-070-136-080	ZENER,MTZJ5.1B	a	b	c
AMP	S D	0188	87-017-931-080	ZENER,MTZJ5.6B	a	b	c
AMP	S D	0189	87-A40-270-080	C-DIODE,MC2838	a	b	c
AMP	S D	0190	87-A40-269-080	C-DIODE,MC2836	a	b	c
AMP	S D	0191	87-A40-345-080	ZENER,MTZJ10C	a	b	c
AMP	S D	0192	87-020-465-080	DIODE,1SS133	a	b	c
AMP	S D	0193	87-020-465-080	DIODE,1SS133	a	b	c
AMP	S D	0262	87-A40-270-080	C-DIODE,MC2838	a	b	c
AMP	S D	0265	87-A40-269-080	C-DIODE,MC2836	a	b	c
AMP	X JR	0103	88-108-000-080	C-JUMPER,U	a	b	c
AMP	X JR	0104	88-108-000-080	C-JUMPER,U	a	b	c
AMP	X JR	0105	88-108-000-080	C-JUMPER,U	a	b	c
AMP	X JR	0106	88-108-000-080	C-JUMPER,U	a	b	c
AMP	X JR	0110	88-108-000-080	C-JUMPER,U	a	b	c
AMP	X JR	0113	88-108-000-080	C-JUMPER,U	a	b	c
AMP	X JR	0114	88-108-000-080	C-JUMPER,U	a	b	c
AMP	O JR	0123	87-012-186-080	C-CAP,U 39P-50 J CH GRM	a	b	c
AMP	O JR	0124	87-012-186-080	C-CAP,U 39P-50 J CH GRM	a	b	c
AMP	S Q	0103	87-A30-075-080	C-TR,2SA1235F	a	b	c
AMP	S Q	0104	87-A30-075-080	C-TR,2SA1235F	a	b	c
AMP	S Q	0105	87-A30-075-080	C-TR,2SA1235F	a	b	c
AMP	S Q	0106	87-A30-075-080	C-TR,2SA1235F	a	b	c
AMP	S Q	0107	87-A30-076-080	C-TR,2SC3052F	a	b	c
AMP	S Q	0108	87-A30-076-080	C-TR,2SC3052F	a	b	c
AMP	S Q	0109	87-A30-076-080	C-TR,2SC3052F	a	b	c
AMP	S Q	0110	87-A30-076-080	C-TR,2SC3052F	a	b	c
AMP	S Q	0111	87-A30-672-080	TR,2N5551C	a	b	c
AMP	S Q	0112	87-A30-672-080	TR,2N5551C	a	b	c
AMP	S Q	0113	87-A30-076-080	C-TR,2SC3052F	a	b	c
AMP	S Q	0114	87-A30-076-080	C-TR,2SC3052F	a	b	c
AMP	S Q	0115	87-A30-670-040	C-TR,SBT5551	a	b	c
AMP	S Q	0116	87-A30-670-040	C-TR,SBT5551	a	b	c
AMP	S Q	0117	87-A30-255-010	TR,2SB1342	a	b	c
AMP	S Q	0118	87-A30-255-010	TR,2SB1342	a	b	c
AMP	S Q	0119	87-A30-256-010	TR,2SD1933	a	b	c
AMP	S Q	0120	87-A30-256-010	TR,2SD1933	a	b	c

ELECTRICAL PARTS LIST -2/15

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					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
AMP	S Q	0123	87-A30-669-040	C-TR, SBT5401	a	b	c
AMP	S Q	0124	87-A30-669-040	C-TR, SBT5401	a	b	c
AMP	S Q	0126	87-A30-669-040	C-TR, SBT5401	a	b	c
AMP	S Q	0127	87-A30-076-080	C-TR, 2SC3052F	a	b	c
AMP	S Q	0128	87-A30-076-080	C-TR, 2SC3052F	a	b	c
AMP	S Q	0130	87-A30-670-040	C-TR, SBT5551	a	b	c
AMP	S Q	0183	87-A30-162-010	FET, 2SK2937	a	b	c
AMP	S Q	0184	87-A30-162-010	FET, 2SK2937	a	b	c
AMP	S Q	0185	87-A30-076-080	C-TR, 2SC3052F	a	b	c
AMP	S Q	0186	87-A30-075-080	C-TR, 2SA1235F	a	b	c
AMP	S Q	0187	87-A30-075-080	C-TR, 2SA1235F	a	b	c
AMP	S Q	0259	87-A30-075-080	C-TR, 2SA1235F	a	b	c
AMP	S Q	0265	87-A30-538-040	C-TR, SRA2202S	a	b	c
AMP	X R	0101	88-121-332-080	RES, 3.3K-1/8W J	a	b	c
AMP	O R	0102	88-108-332-080	C-RES, U 3.3K-1/16W J	a	b	c
AMP	O R	0103	88-108-822-080	C-RES, U 8.2K-1/16W J	a	b	c
AMP	O R	0104	88-108-822-080	C-RES, U 8.2K-1/16W J	a	b	c
AMP	X R	0105	88-108-273-080	C-RES, U 27K-1/16W J	a	b	c
AMP	X R	0106	88-108-273-080	C-RES, U 27K-1/16W J	a	b	c
AMP	O R	0107	88-108-101-080	C-RES, U 100-1/16W J	a	b	c
AMP	O R	0108	88-108-101-080	C-RES, U 100-1/16W J	a	b	c
AMP	X R	0109	88-121-101-080	RES, 100-1/8W J	a	b	c
AMP	X R	0110	88-121-101-080	RES, 100-1/8W J	a	b	c
AMP	O R	0111	88-108-102-080	C-RES, U 1K-1/16W J	a	b	c
AMP	O R	0112	88-108-102-080	C-RES, U 1K-1/16W J	a	b	c
AMP	X R	0113	88-118-183-080	C-RES, S 18K-1/10W J	a	b	c
AMP	X R	0114	88-118-183-080	C-RES, S 18K-1/10W J	a	b	c
AMP	X R	0115	88-121-222-080	RES, 2.2K-1/8W J	a	b	c
AMP	X R	0116	88-121-222-080	RES, 2.2K-1/8W J	a	b	c
AMP	X R	0117	88-118-103-080	C-RES, S 10K-1/10W J	a	b	c
AMP	X R	0118	88-118-103-080	C-RES, S 10K-1/10W J	a	b	c
AMP	X R	0119	88-118-101-080	C-RES, S 100-1/10W J	a	b	c
AMP	X R	0120	88-118-101-080	C-RES, S 100-1/10W J	a	b	c
AMP	X R	0121	88-118-101-080	C-RES, S 100-1/10W J	a	b	c
AMP	X R	0122	88-118-101-080	C-RES, S 100-1/10W J	a	b	c
AMP	X R	0123	88-121-222-080	RES, 2.2K-1/8W J	a	b	c
AMP	X R	0124	88-121-222-080	RES, 2.2K-1/8W J	a	b	c
AMP	X R	0125	88-121-102-080	RES, 1K-1/8W J	a	b	c
AMP	X R	0126	88-121-102-080	RES, 1K-1/8W J	a	b	c
AMP	X R	0127	88-118-390-080	C-RES, S 39-1/10W J	a	b	c
AMP	X R	0128	88-118-390-080	C-RES, S 39-1/10W J	a	b	c
AMP	O R	0129	87-A00-258-080	RES, M/F 0.22-1W J	a	b	c
AMP	O R	0130	87-A00-258-080	RES, M/F 0.22-1W J	a	b	c
AMP	O R	0131	87-A00-258-080	RES, M/F 0.22-1W J	a	b	c
AMP	O R	0132	87-A00-258-080	RES, M/F 0.22-1W J	a	b	c
AMP	O R	0133	88-108-332-080	C-RES, U 3.3K-1/16W J	a	b	c
AMP	O R	0134	88-108-332-080	C-RES, U 3.3K-1/16W J	a	b	c
AMP	X R	0135	88-108-152-080	C-RES, U 1.5K-1/16W J	a	b	c
AMP	X R	0136	88-108-152-080	C-RES, U 1.5K-1/16W J	a	b	c
AMP	O R	0137	88-108-101-080	C-RES, U 100-1/16W J	a	b	c
AMP	O R	0138	88-108-101-080	C-RES, U 100-1/16W J	a	b	c
AMP	X R	0141	88-118-102-080	C-RES, S 1K-1/10W J	a	b	c
AMP	X R	0142	88-118-102-080	C-RES, S 1K-1/10W J	a	b	c
AMP	O R	0151	88-108-473-080	C-RES, U 47K-1/16W J	a	b	c
AMP	O R	0152	88-108-473-080	C-RES, U 47K-1/16W J	a	b	c
AMP	X R	0153	88-100-000-010	PLATING-JW, 0.58 SN95	a	b	c
AMP	X R	0155	88-108-392-080	C-RES, U 3.9K-1/16W J	a	b	c
AMP	X R	0156	88-108-392-080	C-RES, U 3.9K-1/16W J	a	b	c
AMP	X R	0157	88-108-472-080	C-RES, U 4.7K-1/16W J	a	b	c
AMP	X R	0158	88-121-272-080	RES, 2.7K-1/8W J	a	b	c
AMP	O R	0159	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
AMP	X R	0160	88-118-103-080	C-RES, S 10K-1/10W J	a	b	c
AMP	X R	0161	88-108-472-080	C-RES, U 4.7K-1/16W J	a	b	c
AMP	X R	0162	88-108-472-080	C-RES, U 4.7K-1/16W J	a	b	c
AMP	X R	0163	88-108-472-080	C-RES, U 4.7K-1/16W J	a	b	c
AMP	X R	0164	88-108-472-080	C-RES, U 4.7K-1/16W J	a	b	c
AMP	X R	0165	88-108-152-080	C-RES, U 1.5K-1/16W J	a	b	c
AMP	X R	0166	88-108-152-080	C-RES, U 1.5K-1/16W J	a	b	c
AMP	O R	0167	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
AMP	X R	0168	88-118-473-080	C-RES, S 47K-1/10W J	a	b	c
AMP	X R	0169	88-118-561-080	C-RES, S 560-1/10W J	a	b	c
AMP	X R	0170	88-118-561-080	C-RES, S 560-1/10W J	a	b	c
AMP	X R	0171	88-118-222-080	C-RES, S 2.2K-1/10W J	a	b	c
AMP	X R	0172	88-118-222-080	C-RES, S 2.2K-1/10W J	a	b	c
AMP	X R	0173	88-118-152-080	C-RES, S 1.5K-1/10W J	a	b	c
AMP	X R	0174	88-118-152-080	C-RES, S 1.5K-1/10W J	a	b	c
AMP	X R	0175	88-118-331-080	C-RES, S 330-1/10W J	a	b	c
AMP	X R	0176	88-118-331-080	C-RES, S 330-1/10W J	a	b	c
AMP	X R	0177	88-121-222-080	RES, 2.2K-1/8W J	a	b	c
AMP	X R	0178	88-118-103-080	C-RES, S 10K-1/10W J	a	b	c

ELECTRICAL PARTS LIST -3/15

! = SAFETY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.

However, please note that not all components will be available as spare parts for after-sales service.

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
AMP	X R	0179	88-118-102-080	C-RES, S 1K-1/10W J	a	b	c
AMP	X R	0180	88-118-102-080	C-RES, S 1K-1/10W J	a	b	c
AMP	X R	0184	88-118-102-080	C-RES, S 1K-1/10W J	a	b	c
AMP	O R	0185	88-108-332-080	C-RES, U 3.3K-1/16W J	a	b	c
AMP	X R	0186	88-118-222-080	C-RES, S 2.2K-1/10W J	a	b	c
AMP	X R	0187	88-118-103-080	C-RES, S 10K-1/10W J	a	b	c
AMP	X R	0188	88-118-102-080	C-RES, S 1K-1/10W J	a	b	c
AMP	X R	0189	88-121-272-080	RES, 2.7K-1/8W J	a	b	c
AMP	X R	0190	88-121-272-080	RES, 2.7K-1/8W J	a	b	c
AMP	X R	0192	88-121-222-080	RES, 2.2K-1/8W J	a	b	c
AMP	O R	0193	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
AMP	O R	0194	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
AMP	O R	0195	88-108-473-080	C-RES, U 47K-1/16W J	a	b	c
AMP	O R	0196	88-108-473-080	C-RES, U 47K-1/16W J	a	b	c
AMP	O R	0197	88-108-473-080	C-RES, U 47K-1/16W J	a	b	c
AMP	O R	0198	88-108-473-080	C-RES, U 47K-1/16W J	a	b	c
AMP	X R	0199	88-108-225-080	C-RES, U 2.2M-1/16W J	a	b	c
AMP	X R	0252	88-108-683-080	C-RES, U 68K-1/16W J	a	b	c
AMP	X R	0257	88-108-182-080	C-RES, U 1.8K-1/16W J	a	b	c
AMP	O R	0259	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
AMP	O R	0260	88-108-473-080	C-RES, U 47K-1/16W J	a	b	c
AMP	X R	0266	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
AMP	X R	0268	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
AMP	X R	0269	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
AMP	O R	0271	88-108-473-080	C-RES, U 47K-1/16W J	a	b	c
AMP	O R	0272	88-108-473-080	C-RES, U 47K-1/16W J	a	b	c
AMP	O TH	0101	87-A91-042-080	C-THMS, 100K 55001	a	b	c
AMP	O TH	0102	87-A91-042-080	C-THMS, 100K 55001	a	b	c
FRONT	O C	0501	87-012-274-080	C-CAP, U 1000P-50 K B GRM	a	b	c
FRONT	O C	0502	87-A12-091-080	CAP, E 10-50 SMG	a	b	c
FRONT	O C	0503	87-A12-092-080	CAP, E 22-50 SMG	a	b	c
FRONT	O C	0504	87-012-286-080	C-CAP, U 0.01-25 K B GRM	a	b	c
FRONT	O C	0505	87-012-286-080	C-CAP, U 0.01-25 K B GRM	a	b	c
FRONT	O C	0506	87-012-286-080	C-CAP, U 0.01-25 K B GRM	a	b	c
FRONT	O C	0507	87-012-286-080	C-CAP, U 0.01-25 K B GRM	a	b	c
FRONT	O C	0508	87-012-286-080	C-CAP, U 0.01-25 K B GRM	a	b	c
FRONT	O C	0509	87-012-286-080	C-CAP, U 0.01-25 K B GRM	a	b	c
FRONT	O C	0510	87-A12-092-080	CAP, E 22-50 SMG	a	b	c
FRONT	O C	0512	87-012-286-080	C-CAP, U 0.01-25 K B GRM	a	b	c
FRONT	O C	0513	87-012-286-080	C-CAP, U 0.01-25 K B GRM	a	b	c
FRONT	O C	0514	87-010-787-080	C-CAP, U 0.022-25 K B GRM	a	b	c
FRONT	O C	0515	87-A12-062-080	CAP, E 100-10 SMG	a	b	c
FRONT	O CN	0501	87-099-720-010	CONN, 30P BLK TYK-B(P)	a	b	c
FRONT	O CN	0502	87-099-757-010	CONN, 16P H 9604	a	b	c
FRONT	O CN	0503	87-A60-667-010	CONN, 3P H 2MM JMT	a	b	c
FRONT	O CNA	0501	88-805-030-620	CONN ASSY, 3P 60MM	a	b	c
FRONT	O D	0501	87-A40-317-080	LED, SLR-342VCT31 RED	a	b	c
FRONT	O D	0502	87-017-756-040	LED, SLR-342DCT31 ORN	a	b	c
FRONT	O D	0503	87-017-756-040	LED, SLR-342DCT31 ORN	a	b	c
FRONT	O D	0504	87-017-756-040	LED, SLR-342DCT31 ORN	a	b	c
FRONT	O FL	0501	8C-CL3-602-010	FL, HNA-11SM26	a	b	c
FRONT	S IC	0501	87-A22-343-010	IC, SPS-440-1-G	a	b	c
FRONT	S Q	0501	87-A30-288-040	C-TR, DTC114YKA	a	b	c
FRONT	S Q	0502	87-A30-288-040	C-TR, DTC114YKA	a	b	c
FRONT	S Q	0503	87-A30-288-040	C-TR, DTC114YKA	a	b	c
FRONT	X R	0001	88-130-109-080	RES, 1-1/4W J	a	b	c
FRONT	X R	0002	88-130-109-080	RES, 1-1/4W J	a	b	c
FRONT	X R	0005	88-130-109-080	RES, 1-1/4W J	a	b	c
FRONT	X R	0006	88-130-109-080	RES, 1-1/4W J	a	b	c
FRONT	O R	0501	88-108-563-080	C-RES, U 56K-1/16W J	a	b	c
FRONT	X R	0502	88-128-221-080	C-RES, 220-1/8W J	a	b	c
FRONT	X R	0503	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0504	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0505	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	O R	0506	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
FRONT	O R	0507	88-108-223-080	C-RES, U 22K-1/16W J	a	b	c
FRONT	X R	0509	88-121-272-080	RES, 2.7K-1/8W J	a	b	c
FRONT	X R	0510	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0511	88-121-103-080	RES, 10K-1/8W J	a	b	c
FRONT	X R	0512	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0513	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0514	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0515	88-121-103-080	RES, 10K-1/8W J	a	b	c
FRONT	X R	0516	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0517	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0518	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0519	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0520	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	O R	0521	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
FRONT	O R	0522	88-108-223-080	C-RES, U 22K-1/16W J	a	b	c

ELECTRICAL PARTS LIST -4/15

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All components used on this model at the production line are shown in this service manual.

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
FRONT	X R	0523	88-121-103-080	RES, 10K-1/8W J	a	b	c
FRONT	X R	0524	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0525	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0526	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0527	88-121-103-080	RES, 10K-1/8W J	a	b	c
FRONT	X R	0528	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0529	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0530	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0531	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	O R	0532	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
FRONT	O R	0533	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
FRONT	O R	0534	88-108-223-080	C-RES, U 22K-1/16W J	a	b	c
FRONT	X R	0535	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	O R	0536	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
FRONT	O R	0538	87-022-239-080	C-RES, U 10K-1/16W F	a	b	c
FRONT	O R	0539	87-022-239-080	C-RES, U 10K-1/16W F	a	b	c
FRONT	X R	0540	88-108-821-080	C-RES, U 820-1/16W J	a	b	c
FRONT	X R	0541	88-108-821-080	C-RES, U 820-1/16W J	a	b	c
FRONT	X R	0542	88-108-821-080	C-RES, U 820-1/16W J	a	b	c
FRONT	X R	0543	88-108-821-080	C-RES, U 820-1/16W J	a	b	c
FRONT	O R	0544	88-108-102-080	C-RES, U 1K-1/16W J	a	b	c
FRONT	O R	0545	88-108-102-080	C-RES, U 1K-1/16W J	a	b	c
FRONT	X R	0546	88-108-122-080	C-RES, U 1.2K-1/16W J	a	b	c
FRONT	X R	0547	88-108-122-080	C-RES, U 1.2K-1/16W J	a	b	c
FRONT	X R	0548	88-108-152-080	C-RES, U 1.5K-1/16W J	a	b	c
FRONT	X R	0549	88-108-182-080	C-RES, U 1.8K-1/16W J	a	b	c
FRONT	O R	0550	88-108-272-080	C-RES, U 2.7K-1/16W J	a	b	c
FRONT	X R	0555	88-108-000-080	C-JUMPER, U	a	b	c
FRONT	X R	0557	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0558	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0559	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0560	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0561	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0562	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0563	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0564	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0565	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0566	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0567	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
FRONT	X R	0568	88-121-331-080	RES, 330-1/8W J	a	b	c
FRONT	X R	0569	88-121-331-080	RES, 330-1/8W J	a	b	c
FRONT	X R	0570	88-121-331-080	RES, 330-1/8W J	a	b	c
FRONT	O S	0501	87-A92-353-010	SW, RTRY RE0123PVB25FINA1-2	a	b	c
FRONT	O S	0502	87-A92-353-010	SW, RTRY RE0123PVB25FINA1-2	a	b	c
FRONT	O S	0503	87-A92-418-010	SW, RTRY RE12304PVB25FINB1-24	a	b	c
FRONT	O S	0504	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
FRONT	O S	0505	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
FRONT	O S	0506	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
FRONT	O S	0507	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
FRONT	O S	0508	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
FRONT	O S	0509	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
FRONT	O S	0510	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
FRONT	O S	0511	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
FRONT	O S	0512	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
FRONT	O S	0513	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
FRONT	O S	0514	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
KEY	X R	0551	88-108-152-080	C-RES, U 1.5K-1/16W J	a	b	c
KEY	O R	0552	88-108-332-080	C-RES, U 3.3K-1/16W J	a	b	c
KEY	X R	0553	88-108-182-080	C-RES, U 1.8K-1/16W J	a	b	c
KEY	O R	0554	88-108-562-080	C-RES, U 5.6K-1/16W J	a	b	c
KEY	O S	0515	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
KEY	O S	0516	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
KEY	O S	0517	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
KEY	O S	0518	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
KEY	O S	0519	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
KEY	O S	0520	87-A90-095-080	SW, TACT EVQ11G04M	a	b	c
MAIN	O C	0003	87-A12-317-080	C-CAP, U 0.1-50 Z F	a	b	c
MAIN	O C	0004	87-A12-317-080	C-CAP, U 0.1-50 Z F	a	b	c
MAIN	O C	0005	87-A12-317-080	C-CAP, U 0.1-50 Z F	a	b	c
MAIN	O C	0006	87-A12-317-080	C-CAP, U 0.1-50 Z F	a	b	c
MAIN	O C	0009	87-010-759-080	C-CAP, U 0.1-25 Z F CM/CB	a	b	c
MAIN	O C	0010	87-010-759-080	C-CAP, U 0.1-25 Z F CM/CB	a	b	c
MAIN	O C	0011	87-010-759-080	C-CAP, U 0.1-25 Z F CM/CB	a	b	c
MAIN	O C	0012	87-010-759-080	C-CAP, U 0.1-25 Z F CM/CB	a	b	c
MAIN	O C	0019	87-016-051-000	CAP, E 2200-35 M SMG	a	b	c
MAIN	O C	0020	87-016-051-000	CAP, E 2200-35 M SMG	a	b	c
MAIN	O C	0021	87-010-928-000	CAP, E 4700-25 M SMG	a	b	c
MAIN	O C	0022	87-010-928-000	CAP, E 4700-25 M SMG	a	b	c
MAIN	O C	0025	87-A12-095-080	CAP, E 100-50 SMG	a	b	c
MAIN	O C	0026	87-A12-095-080	CAP, E 100-50 SMG	a	b	c

ELECTRICAL PARTS LIST -5/15

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
MAIN	O C	0030	87-A12-079-080	CAP,E 100-35 SMG	a	b	c
MAIN	O C	0031	87-A12-072-080	CAP,E 100-25 SMG	a	b	c
MAIN	O C	0037	87-A12-079-080	CAP,E 100-35 SMG	a	b	c
MAIN	O C	0038	87-012-282-080	C-CAP,U 4700P-50 K B GRM	a	b	c
MAIN	O C	0045	87-010-759-080	C-CAP,U 0.1-25 Z F CM/CB	a	b	c
MAIN	O C	0046	87-A12-068-080	CAP,E 470-16 SMG	a	b	c
MAIN	O C	0047	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0049	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0050	87-A12-068-080	CAP,E 470-16 SMG	a	b	c
MAIN	O C	0051	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0052	87-A10-730-090	CAP,E 1000-16 SMG	a	b	c
MAIN	O C	0053	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0054	87-A13-047-080	CAP,E 470-16 M VR-GSO	a	b	c
MAIN	O C	0060	87-A12-089-080	CAP,E 3.3-50 SMG	a	b	c
MAIN	O C	0061	87-A12-071-080	CAP,E 47-25 SMG	a	b	c
MAIN	O C	0083	87-A12-074-080	CAP,E 470-25 SMG	a	b	c
MAIN	O C	0301	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0302	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0303	87-A12-089-080	CAP,E 3.3-50 SMG	a	b	c
MAIN	O C	0304	87-A12-087-080	CAP,E 1-50 SMG	a	b	c
MAIN	O C	0305	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0306	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0307	87-A12-062-080	CAP,E 100-10 SMG	a	b	c
MAIN	O C	0308	87-010-992-080	C-CAP,S 0.047-25 K B MK212	a	b	c
MAIN	O C	0309	87-A12-089-080	CAP,E 3.3-50 SMG	a	b	c
MAIN	O C	0310	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c
MAIN	O C	0311	87-010-992-080	C-CAP,S 0.047-25 K B MK212	a	b	c
MAIN	O C	0312	87-A12-062-080	CAP,E 100-10 SMG	a	b	c
MAIN	O C	0313	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0314	87-A12-062-080	CAP,E 100-10 SMG	a	b	c
MAIN	O C	0315	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0316	87-012-188-080	C-CAP,U 47P-50 J CH GRM	a	b	c
MAIN	O C	0317	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0318	87-A12-062-080	CAP,E 100-10 SMG	a	b	c
MAIN	O C	0319	87-012-282-080	C-CAP,U 4700P-50 K B GRM	a	b	c
MAIN	O C	0321	87-012-172-080	C-CAP,U 10P-50 D CH GRM	a	b	c
MAIN	O C	0322	87-A12-091-080	CAP,E 10-50 SMG	a	b	c
MAIN	O C	0323	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0324	87-A12-062-080	CAP,E 100-10 SMG	a	b	c
MAIN	O C	0325	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c
MAIN	O C	0326	87-012-169-080	C-CAP,U 7P-50 D CH GRM	a	b	c
MAIN	O C	0327	87-A12-087-080	CAP,E 1-50 SMG	a	b	c
MAIN	O C	0328	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0329	87-A12-062-080	CAP,E 100-10 SMG	a	b	c
MAIN	O C	0330	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c
MAIN	O C	0331	87-A12-062-080	CAP,E 100-10 SMG	a	b	c
MAIN	O C	0332	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0333	87-012-188-080	C-CAP,U 47P-50 J CH GRM	a	b	c
MAIN	O C	0334	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c
MAIN	O C	0335	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0336	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0337	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0338	87-A13-060-080	CAP,E 220-10 M ASF WHT	a	b	c
MAIN	O C	0339	87-A12-062-080	CAP,E 100-10 SMG	a	b	c
MAIN	O C	0340	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c
MAIN	O C	0341	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0342	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0343	87-A12-062-080	CAP,E 100-10 SMG	a	b	c
MAIN	O C	0344	87-012-180-080	C-CAP,U 22P-50 J CH GRM	a	b	c
MAIN	O C	0345	87-A12-091-080	CAP,E 10-50 SMG	a	b	c
MAIN	O C	0347	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0348	87-A12-091-080	CAP,E 10-50 SMG	a	b	c
MAIN	O C	0349	87-A12-088-080	CAP,E 2.2-50 SMG	a	b	c
MAIN	O C	0351	87-A13-072-080	CAP,E 2.2-50 M FW	a	b	c
MAIN	O C	0352	87-A13-072-080	CAP,E 2.2-50 M FW	a	b	c
MAIN	O C	0355	87-A10-918-080	CAP,E 100-16 SMG	a	b	c
MAIN	O C	0356	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0357	87-A10-918-080	CAP,E 100-16 SMG	a	b	c
MAIN	O C	0358	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0362	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c
MAIN	O C	0363	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0364	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c
MAIN	O C	0365	87-A10-918-080	CAP,E 100-16 SMG	a	b	c
MAIN	O C	0366	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c
MAIN	O C	0374	87-012-279-080	C-CAP,U 2700P-50 K B GRM	a	b	c
MAIN	O C	0375	87-012-279-080	C-CAP,U 2700P-50 K B GRM	a	b	c
MAIN	O C	0376	87-018-209-080	CAP,TC U 0.1-50 Z F UP050	a	b	c
MAIN	O C	0401	87-012-270-080	C-CAP,U 470P-50 K B GRM	a	b	c
MAIN	O C	0402	87-A12-095-080	CAP,E 100-50 SMG	a	b	c
MAIN	O C	0403	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c

ELECTRICAL PARTS LIST -6/15

! = SAFETY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL			
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM	
MAIN	O C	0404	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
MAIN	O C	0405	87-012-178-080	C-CAP,U 18P-50 J CH GRM	a	b	c	
MAIN	O C	0406	87-A10-353-080	C-CAP,U 0.22-10 K B	a	b	c	
MAIN	O C	0407	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
MAIN	O C	0408	87-012-184-080	C-CAP,U 33P-50 J CH GRM	a	b	c	
MAIN	O C	0409	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
MAIN	O C	0410	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c	
MAIN	O C	0411	87-A12-063-080	CAP,E 220-10 SMG	a	b	c	
MAIN	O C	0412	87-010-785-080	C-CAP,U 0.015-25 K B GRM	a	b	c	
MAIN	O C	0413	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c	
MAIN	O C	0414	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
MAIN	O C	0415	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
MAIN	O C	0416	87-A12-063-080	CAP,E 220-10 SMG	a	b	c	
MAIN	O C	0417	87-018-209-080	CAP,TC U 0.1-50 Z F UP050	a	b	c	
MAIN	O C	0418	87-018-209-080	CAP,TC U 0.1-50 Z F UP050	a	b	c	
MAIN	O C	0601	87-A13-044-080	CAP,E 100-16 M VR-GSO	a	b	c	
MAIN	O C	0602	87-A13-040-080	CAP,E 330-25 M VR-GSO	a	b	c	
MAIN	O C	0603	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
MAIN	O C	0604	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
MAIN	O C	0607	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c	
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM	
MAIN	O C	0608	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c	
MAIN	O C	0609	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c	
MAIN	O C	0610	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c	
MAIN	O C	0611	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
MAIN	O C	0612	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
MAIN	O C	0613	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
MAIN	O C	0614	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
MAIN	X C	0615	88-700-920-810	CAP,M 0.15-50 J LDS	a	b	c	
MAIN	X C	0616	88-700-920-810	CAP,M 0.15-50 J LDS	a	b	c	
MAIN	X C	0617	88-700-920-810	CAP,M 0.15-50 J LDS	a	b	c	
MAIN	X C	0618	88-700-920-810	CAP,M 0.15-50 J LDS	a	b	c	
MAIN	O C	0619	87-A12-071-080	CAP,E 47-25 SMG	a	b	c	
MAIN	O C	0620	87-A12-071-080	CAP,E 47-25 SMG	a	b	c	
MAIN	O C	0621	87-012-188-080	C-CAP,U 47P-50 J CH GRM	a	b	c	
MAIN	O C	0622	87-012-188-080	C-CAP,U 47P-50 J CH GRM	a	b	c	
MAIN	O C	0625	87-012-272-080	C-CAP,U 680P-50 K B GRM	a	b	c	
MAIN	O C	0626	87-012-272-080	C-CAP,U 680P-50 K B GRM	a	b	c	
MAIN	O C	0627	87-012-269-080	C-CAP,U 390P-50 K B GRM	a	b	c	
MAIN	O C	0628	87-012-269-080	C-CAP,U 390P-50 K B GRM	a	b	c	
MAIN	O C	0631	87-012-271-080	C-CAP,U 560P-50 K B GRM	a	b	c	
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM	
MAIN	O C	0632	87-012-271-080	C-CAP,U 560P-50 K B GRM	a	b	c	
MAIN	O C	0650	87-A12-061-080	CAP,E 47-10 SMG	a	b	c	
MAIN	O C	0651	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
MAIN	O C	0661	87-012-336-080	C-CAP,U 330P-50 J SL GRM	a	b	c	
MAIN	O C	0662	87-012-336-080	C-CAP,U 330P-50 J SL GRM	a	b	c	
MAIN	X C	0673	88-700-910-810	CAP,M 0.1-50 J AMZV	a	b	c	
MAIN	X C	0674	88-700-910-810	CAP,M 0.1-50 J AMZV	a	b	c	
MAIN	X C	0675	88-700-910-810	CAP,M 0.1-50 J AMZV	a	b	c	
MAIN	X C	0676	88-700-910-810	CAP,M 0.1-50 J AMZV	a	b	c	
MAIN	O C	0677	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
MAIN	O C	0678	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
MAIN	O C	0685	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
MAIN	O C	0872	87-012-280-080	C-CAP,U 3300P-50 K B GRM	a	b	c	
MAIN	O C	0873	87-012-280-080	C-CAP,U 3300P-50 K B GRM	a	b	c	
MAIN	O C	0874	87-012-279-080	C-CAP,U 2700P-50 K B GRM	a	b	c	
MAIN	O C	0875	87-012-279-080	C-CAP,U 2700P-50 K B GRM	a	b	c	
MAIN	X	CLP0301	87-A60-884-010	PIN,DIA1 COATING-SHS	a	b	c	
MAIN	O	CN0301	87-A60-424-010	CONN,16P V TOC-B	a	b	c	
MAIN	O	CN0302	87-009-034-010	CONN,6P V WHT PH	a	b	c	
MAIN	O	CN0304	87-049-469-010	CONN,4P V WHT EH	a	b	c	
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM	
MAIN	O	CN0306	87-099-408-010	CONN,8P V WHT EH	a	b	c	
MAIN	O	CN0401	87-099-719-010	CONN,30P H BLK TYK-B(X)	a	b	c	
MAIN	O	CN0402	87-099-751-010	CONN,16P V 9604SC	a	b	c	
MAIN	O	CN0601	87-099-570-010	CONN,13P V TUC-P13P-B1	a	b	c	
MAIN	O	CN0603	87-A60-998-010	CONN,15P V BLK TAC-L15X-A3	a	b	c	
MAIN	O	CNA0001	8C-CL3-644-010	CONN ASSY,9P 2.5MM SUPPLY	a	b	c	
MAIN	S	D	0001	87-A40-838-090	DIODE,G3SBA60L-6088	a	b	c
MAIN	S	D	0002	87-A40-838-090	DIODE,G3SBA60L-6088	a	b	c
MAIN	S	D	0024	87-070-274-080	DIODE,1N4003 SEM	a	b	c
MAIN	S	D	0027	87-070-274-080	DIODE,1N4003 SEM	a	b	c
MAIN	S	D	0029	87-A40-500-080	ZENER,MTZJ30B	a	b	c
MAIN	S	D	0033	87-070-274-080	DIODE,1N4003 SEM	a	b	c
MAIN	S	D	0041	87-A40-270-080	C-DIODE,MC2838	a	b	c
MAIN	S	D	0042	87-A40-269-080	C-DIODE,MC2836	a	b	c
MAIN	S	D	0061	87-020-465-080	DIODE,1SS133	a	b	c
MAIN	S	D	0062	87-020-465-080	DIODE,1SS133	a	b	c
MAIN	S	D	0063	87-A40-270-080	C-DIODE,MC2838	a	b	c
MAIN	S	D	0064	87-A40-269-080	C-DIODE,MC2836	a	b	c
MAIN	S	D	0071	87-A40-269-080	C-DIODE,MC2836	a	b	c
MAIN	S	D	0072	87-A40-270-080	C-DIODE,MC2838	a	b	c

ELECTRICAL PARTS LIST -7/15

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
MAIN	S D	0076	87-A40-269-080	C-DIODE, MC2836	a	b	c
MAIN	S D	0077	87-A40-270-080	C-DIODE, MC2838	a	b	c
MAIN	S D	0301	87-070-136-080	ZENER, MTZJ5.1B	a	b	c
MAIN	S D	0302	87-A40-003-080	ZENER, MTZJ4.3A	a	b	c
MAIN	S D	0303	87-017-931-080	ZENER, MTZJ5.6B	a	b	c
MAIN	S D	0304	87-A40-337-080	ZENER, MTZJ6.8B	a	b	c
MAIN	S D	0401	87-017-931-080	ZENER, MTZJ5.6B	a	b	c
MAIN	S D	0402	87-020-465-080	DIODE, 1SS133	a	b	c
MAIN	S D	0403	87-020-465-080	DIODE, 1SS133	a	b	c
MAIN	S D	0404	87-A40-270-080	C-DIODE, MC2838	a	b	c
MAIN	S D	0601	87-A40-464-080	ZENER, MTZJ3.6A	a	b	c
MAIN	S D	0602	87-A40-464-080	ZENER, MTZJ3.6A	a	b	c
MAIN	S D	0603	87-020-465-080	DIODE, 1SS133	a	b	c
MAIN	S D	0604	87-A40-243-080	ZENER, MTZ J 4.7BT-72	a	b	c
MAIN	O FB	0401	87-008-372-080	FLTR, EMI BL01 RN1	a	b	c
MAIN	S IC	0001	87-001-576-010	IC, NJM7812FA	a	b	c
MAIN	S IC	0002	87-A21-364-010	IC, NJM7806FA(A)	a	b	c
MAIN	S IC	0301	87-A22-242-030	C-IC, LC78646E	a	b	c
MAIN	S IC	0302	87-A22-251-040	C-IC, BA5826FP	a	b	c
MAIN	S IC	0303	87-A22-283-010	IC, LB1645N	a	b	c
MAIN	S IC	0304	87-A22-283-010	IC, LB1645N	a	b	c
MAIN	S IC	0401	8C-CL3-601-030	C-IC, LC876764A-5Z85	a	b	c
MAIN	S IC	0601	87-A22-264-040	C-IC, BD3882FV	a	b	c
MAIN	S IC	0602	87-017-825-010	IC, GP1F32T	a	b	c
MAIN	O J	0601	87-A61-711-010	JACK, PIN 2P MSP- 242V-01 PBSN	a	b	c
MAIN	O J	0602	87-A61-895-010	JACK, PIN 3P B/W/R	a	b	c
MAIN	O J	0603	87-A61-821-010	JACK, 3.5 BLK ST W/SW GLD	a	b	c
MAIN	O J	0605	87-A61-896-110	TERMINAL, SPKR 4P MSP-324V-01	a	b	c
MAIN	X JR	0001	88-129-000-080	C-JUMPER, 3216	a	b	c
MAIN	X JR	0011	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0301	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0401	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0403	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0410	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0411	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0412	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0413	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0601	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0602	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0603	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0604	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0605	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0606	88-129-000-080	C-JUMPER, 3216	a	b	c
MAIN	X JR	0650	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0801	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	X JR	0802	88-108-000-080	C-JUMPER, U	a	b	c
MAIN	O L	0301	87-003-102-080	COIL, 10UH J LAL02	a	b	c
MAIN	O L	0302	87-003-102-080	COIL, 10UH J LAL02	a	b	c
MAIN	O L	0401	87-A50-333-010	COIL, OSC 9.43MHZ	a	b	c
MAIN	O L	0601	87-A50-610-010	COIL, 1UH K(MDEC)	a	b	c
MAIN	O L	0602	87-A50-610-010	COIL, 1UH K(MDEC)	a	b	c
MAIN	S Q	0001	87-A30-494-080	TR, 2SA1980G	a	b	c
MAIN	S Q	0002	87-A30-494-080	TR, 2SA1980G	a	b	c
MAIN	S Q	0003	89-406-555-080	TR, 2SD655E	a	b	c
MAIN	S Q	0008	87-A30-547-040	C-TR, 2SD1819AQRS	a	b	c
MAIN	S Q	0014	87-A30-548-040	C-TR, 2SB1218AQRS	a	b	c
MAIN	S Q	0060	87-A30-547-040	C-TR, 2SD1819AQRS	a	b	c
MAIN	S Q	0061	87-A30-548-040	C-TR, 2SB1218AQRS	a	b	c
MAIN	S Q	0062	87-A30-547-040	C-TR, 2SD1819AQRS	a	b	c
MAIN	S Q	0063	87-A30-548-040	C-TR, 2SB1218AQRS	a	b	c
MAIN	S Q	0064	87-A30-547-040	C-TR, 2SD1819AQRS	a	b	c
MAIN	S Q	0065	87-A30-435-040	C-TR, DTC144EKA	a	b	c
MAIN	S Q	0301	87-A30-495-080	TR, 2SA1981Y	a	b	c
MAIN	S Q	0302	89-406-555-080	TR, 2SD655E	a	b	c
MAIN	S Q	0303	87-A30-494-080	TR, 2SA1980G	a	b	c
MAIN	S Q	0401	87-A30-495-080	TR, 2SA1981Y	a	b	c
MAIN	S Q	0402	87-A30-547-040	C-TR, 2SD1819AQRS	a	b	c
MAIN	S Q	0403	87-A30-547-040	C-TR, 2SD1819AQRS	a	b	c
MAIN	S Q	0404	87-A30-547-040	C-TR, 2SD1819AQRS	a	b	c
MAIN	S Q	0405	87-A30-538-040	C-TR, SRA2202S	a	b	c
MAIN	S Q	0601	87-A30-548-040	C-TR, 2SB1218AQRS	a	b	c
MAIN	S Q	0602	87-A30-547-040	C-TR, 2SD1819AQRS	a	b	c
MAIN	S Q	0603	87-A30-547-040	C-TR, 2SD1819AQRS	a	b	c
MAIN	X R	0003	88-128-471-080	C-RES, 470-1/8W J	a	b	c
MAIN	O R	0004	88-108-101-080	C-RES, U 100-1/16W J	a	b	c
MAIN	X R	0009	88-121-273-080	RES, 27K-1/8W J	a	b	c
MAIN	X R	0010	88-121-273-080	RES, 27K-1/8W J	a	b	c
MAIN	X R	0011	88-108-472-080	C-RES, U 4.7K-1/16W J	a	b	c
MAIN	X R	0012	88-108-472-080	C-RES, U 4.7K-1/16W J	a	b	c
MAIN	X R	0013	88-108-472-080	C-RES, U 4.7K-1/16W J	a	b	c

ELECTRICAL PARTS LIST -8/15

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					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
MAIN	X R	0014	88-108-100-080	C-RES,U 10-1/16W J	a	b	c
MAIN	X R	0015	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	X R	0019	88-108-000-080	C-JUMPER,U	a	b	c
MAIN	O R	0028	88-108-103-080	C-RES,U 10K-1/16W J	a	b	c
MAIN	X R	0029	88-108-472-080	C-RES,U 4.7K-1/16W J	a	b	c
MAIN	X R	0032	88-108-274-080	C-RES,U 270K-1/16W J	a	b	c
MAIN	X R	0034	88-121-273-080	RES,27K-1/8W J	a	b	c
MAIN	X R	0043	88-108-471-080	C-RES,U 470-1/16W J	a	b	c
MAIN	O R	0044	88-108-823-080	C-RES,U 82K-1/16W J	a	b	c
MAIN	O R	0054	88-108-473-080	C-RES,U 47K-1/16W J	a	b	c
MAIN	O R	0055	88-108-473-080	C-RES,U 47K-1/16W J	a	b	c
MAIN	O R	0056	88-108-562-080	C-RES,U 5.6K-1/16W J	a	b	c
MAIN	X R	0058	88-108-682-080	C-RES,U 6.8K-1/16W J	a	b	c
MAIN	O R	0060	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	X R	0061	88-108-333-080	C-RES,U 33K-1/16W J	a	b	c
MAIN	X R	0062	88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN	X R	0063	88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN	O R	0064	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0065	88-108-123-080	C-RES,U 12K-1/16W J	a	b	c
MAIN	O R	0067	88-108-103-080	C-RES,U 10K-1/16W J	a	b	c
MAIN	O R	0070	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	X R	0078	88-108-183-080	C-RES,U 18K-1/16W J	a	b	c
MAIN	O R	0079	88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN	X R	0081	88-121-101-080	RES,100-1/8W J	a	b	c
MAIN	O R	0085	88-108-103-080	C-RES,U 10K-1/16W J	a	b	c
MAIN	X R	0093	88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN	X R	0094	88-108-183-080	C-RES,U 18K-1/16W J	a	b	c
MAIN	O R	0095	88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN	X R	0096	88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN	X R	0301	88-121-102-080	RES,1K-1/8W J	a	b	c
MAIN	O R	0302	88-108-473-080	C-RES,U 47K-1/16W J	a	b	c
MAIN	O R	0303	88-108-123-080	C-RES,U 12K-1/16W J	a	b	c
MAIN	X R	0304	88-108-122-080	C-RES,U 1.2K-1/16W J	a	b	c
MAIN	X R	0305	88-108-681-080	C-RES,U 680-1/16W J	a	b	c
MAIN	X R	0306	88-108-681-080	C-RES,U 680-1/16W J	a	b	c
MAIN	O R	0307	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0308	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0309	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0310	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0311	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0312	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0313	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	X R	0314	88-121-103-080	RES,10K-1/8W J	a	b	c
MAIN	X R	0315	88-108-339-080	C-RES,U 3.3-1/16W J	a	b	c
MAIN	O R	0316	88-108-103-080	C-RES,U 10K-1/16W J	a	b	c
MAIN	X R	0317	88-121-273-080	RES,27K-1/8W J	a	b	c
MAIN	X R	0318	88-108-331-080	C-RES,U 330-1/16W J	a	b	c
MAIN	O R	0319	88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN	O R	0320	88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN	O R	0321	88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN	X R	0322	88-108-333-080	C-RES,U 33K-1/16W J	a	b	c
MAIN	O R	0323	88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN	X R	0324	88-108-333-080	C-RES,U 33K-1/16W J	a	b	c
MAIN	X R	0325	88-108-221-080	C-RES,U 220-1/16W J	a	b	c
MAIN	X R	0326	88-108-181-080	C-RES,U 180-1/16W J	a	b	c
MAIN	X R	0327	88-108-470-080	C-RES,U 47-1/16W J	a	b	c
MAIN	X R	0328	88-121-100-080	RES,10-1/8W J	a	b	c
MAIN	O R	0329	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	X R	0330	88-108-000-080	C-JUMPER,U	a	b	c
MAIN	O R	0331	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0332	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0333	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	X R	0334	88-108-331-080	C-RES,U 330-1/16W J	a	b	c
MAIN	X R	0335	88-108-331-080	C-RES,U 330-1/16W J	a	b	c
MAIN	O R	0336	88-108-473-080	C-RES,U 47K-1/16W J	a	b	c
MAIN	X R	0337	88-128-471-080	C-RES, 470-1/8W J	a	b	c
MAIN	X R	0339	88-140-229-080	RES,2.2-1/2W J	a	b	c
MAIN	O R	0340	88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN	O R	0341	88-108-822-080	C-RES,U 8.2K-1/16W J	a	b	c
MAIN	X R	0343	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	X R	0344	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	X R	0345	88-121-103-080	RES,10K-1/8W J	a	b	c
MAIN	O R	0346	88-108-822-080	C-RES,U 8.2K-1/16W J	a	b	c
MAIN	O R	0347	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0348	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0353	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0354	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0356	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0357	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0358	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c

ELECTRICAL PARTS LIST -9/15

! = SAFETY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.

However, please note that not all components will be available as spare parts for after-sales service.

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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
MAIN	O R	0359	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0360	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	X R	0361	88-128-100-080	C-RES, 10-1/8W J	a	b	c
MAIN	X R	0362	88-128-100-080	C-RES, 10-1/8W J	a	b	c
MAIN	X R	0364	88-108-000-080	C-JUMPER,U	a	b	c
MAIN	X R	0366	88-108-000-080	C-JUMPER,U	a	b	c
MAIN	O R	0402	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	X R	0403	88-100-000-010	PLATING-JW, 0.58 SN95	a	b	c
MAIN	X R	0404	88-121-101-080	RES,100-1/8W J	a	b	c
MAIN	X R	0405	88-121-102-080	RES,1K-1/8W J	a	b	c
MAIN	X R	0406	88-121-102-080	RES,1K-1/8W J	a	b	c
MAIN	X R	0407	88-108-000-080	C-JUMPER,U	a	b	c
MAIN	X R	0408	88-121-101-080	RES,100-1/8W J	a	b	c
MAIN	O R	0409	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0410	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0411	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0412	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0413	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0414	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	X R	0415	88-100-000-010	PLATING-JW, 0.58 SN95	a	b	c
MAIN	O R	0416	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0417	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0419	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0420	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0421	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0422	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0423	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0424	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	O R	0425	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0426	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	X R	0427	88-128-100-080	C-RES, 10-1/8W J	a	b	c
MAIN	X R	0428	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	X R	0429	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	X R	0430	88-108-683-080	C-RES,U 68K-1/16W J	a	b	c
MAIN	X R	0431	88-108-683-080	C-RES,U 68K-1/16W J	a	b	c
MAIN	O R	0432	88-108-224-080	C-RES,U 220K-1/16W J	a	b	c
MAIN	X R	0433	88-121-472-080	RES,4.7K-1/8W J	a	b	c
MAIN	X R	0434	88-121-102-080	RES,1K-1/8W J	a	b	c
MAIN	X R	0435	88-121-102-080	RES,1K-1/8W J	a	b	c
MAIN	X R	0436	88-118-102-080	C-RES,S 1K-1/10W J	a	b	c
MAIN	X R	0437	88-118-153-080	C-RES,S 15K-1/10W J	a	b	c
MAIN	X R	0438	88-118-183-080	C-RES,S 18K-1/10W J	a	b	c
MAIN	X R	0440	88-118-102-080	C-RES,S 1K-1/10W J	a	b	c
MAIN	X R	0441	88-118-183-080	C-RES,S 18K-1/10W J	a	b	c
MAIN	X R	0442	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	X R	0443	88-118-153-080	C-RES,S 15K-1/10W J	a	b	c
MAIN	O R	0444	88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN	X R	0445	88-108-472-080	C-RES,U 4.7K-1/16W J	a	b	c
MAIN	X R	0446	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	X R	0447	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	X R	0448	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	O R	0449	88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN	X R	0450	88-108-471-080	C-RES,U 470-1/16W J	a	b	c
MAIN	X R	0453	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	X R	0455	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	X R	0457	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	O R	0458	88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN	X R	0461	88-108-333-080	C-RES,U 33K-1/16W J	a	b	c
MAIN	O R	0462	88-108-103-080	C-RES,U 10K-1/16W J	a	b	c
MAIN	O R	0463	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	X R	0464	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	X R	0465	88-108-104-080	C-RES,U 100K-1/16W J	a	b	c
MAIN	O R	0466	88-108-224-080	C-RES,U 220K-1/16W J	a	b	c
MAIN	X R	0467	88-108-000-080	C-JUMPER,U	a	b	c
MAIN	X R	0468	88-108-124-080	C-RES,U 120K-1/16W J	a	b	c
MAIN	O R	0469	88-108-224-080	C-RES,U 220K-1/16W J	a	b	c
MAIN	O R	0471	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0472	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0473	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0474	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0475	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0476	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	O R	0477	88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN	X R	0478	88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN	X R	0479	88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN	X R	0480	88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN	X R	0481	88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN	X R	0482	88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN	X R	0483	88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN	X R	0484	88-108-273-080	C-RES,U 27K-1/16W J	a	b	c

ELECTRICAL PARTS LIST -10/15

! = SAFETY PARTS
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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
MAIN		O R	0485 88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN		O R	0486 88-108-101-080	C-RES,U 100-1/16W J	a	b	c
MAIN		X R	0487 88-121-103-080	RES,10K-1/8W J	a	b	c
MAIN		X R	0488 88-121-103-080	RES,10K-1/8W J	a	b	c
MAIN		X R	0489 88-121-103-080	RES,10K-1/8W J	a	b	c
MAIN		X R	0601 88-130-101-080	RES,100-1/4W J	a	b	c
MAIN		X R	0602 88-130-101-080	RES,100-1/4W J	a	b	c
MAIN		X R	0603 88-130-121-080	RES,120-1/4W J	a	b	c
MAIN		X R	0604 88-130-121-080	RES,120-1/4W J	a	b	c
MAIN		X R	0605 88-130-121-080	RES,120-1/4W J	a	b	c
MAIN		X R	0606 88-130-151-080	RES,150-1/4W J	a	b	c
MAIN		X R	0607 88-130-101-080	RES,100-1/4W J	a	b	c
MAIN		O R	0611 88-108-562-080	C-RES,U 5.6K-1/16W J	a	b	c
MAIN		O R	0612 88-108-562-080	C-RES,U 5.6K-1/16W J	a	b	c
MAIN		O R	0613 88-108-562-080	C-RES,U 5.6K-1/16W J	a	b	c
MAIN		O R	0614 88-108-562-080	C-RES,U 5.6K-1/16W J	a	b	c
MAIN		X R	0615 88-108-472-080	C-RES,U 4.7K-1/16W J	a	b	c
MAIN		X R	0616 88-108-472-080	C-RES,U 4.7K-1/16W J	a	b	c
MAIN		X R	0617 88-108-222-080	C-RES,U 2.2K-1/16W J	a	b	c
MAIN		X R	0618 88-108-222-080	C-RES,U 2.2K-1/16W J	a	b	c
MAIN		O R	0619 88-108-103-080	C-RES,U 10K-1/16W J	a	b	c
MAIN		O R	0620 88-108-103-080	C-RES,U 10K-1/16W J	a	b	c
MAIN		O R	0621 88-108-123-080	C-RES,U 12K-1/16W J	a	b	c
MAIN		O R	0622 88-108-123-080	C-RES,U 12K-1/16W J	a	b	c
MAIN		O R	0623 88-108-103-080	C-RES,U 10K-1/16W J	a	b	c
MAIN		O R	0624 88-108-103-080	C-RES,U 10K-1/16W J	a	b	c
MAIN		O R	0625 88-108-822-080	C-RES,U 8.2K-1/16W J	a	b	c
MAIN		O R	0626 88-108-822-080	C-RES,U 8.2K-1/16W J	a	b	c
MAIN		X R	0627 88-108-471-080	C-RES,U 470-1/16W J	a	b	c
MAIN		X R	0628 88-108-471-080	C-RES,U 470-1/16W J	a	b	c
MAIN		X R	0629 88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN		X R	0630 88-108-273-080	C-RES,U 27K-1/16W J	a	b	c
MAIN		X R	0631 88-121-103-080	RES,10K-1/8W J	a	b	c
MAIN		X R	0632 88-121-103-080	RES,10K-1/8W J	a	b	c
MAIN		X R	0633 88-100-000-010	PLATING-JW, 0.58 SN95	a	b	c
MAIN		X R	0634 88-100-000-010	PLATING-JW, 0.58 SN95	a	b	c
MAIN		X R	0636 88-121-332-080	RES,3.3K-1/8W J	a	b	c
MAIN		O R	0637 88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN		O R	0638 88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN		O R	0639 88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN		O R	0640 88-108-153-080	C-RES,U 15K-1/16W J	a	b	c
MAIN		X R	0641 88-108-000-080	C-JUMPER,U	a	b	c
MAIN		X R	0642 88-108-000-080	C-JUMPER,U	a	b	c
MAIN		X R	0644 88-108-000-080	C-JUMPER,U	a	b	c
MAIN		X R	0645 88-108-000-080	C-JUMPER,U	a	b	c
MAIN		X R	0650 88-108-121-080	C-RES,U 120-1/16W J	a	b	c
MAIN		O R	0661 88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN		O R	0662 88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN		X R	0671 88-130-100-080	RES,10-1/4W J	a	b	c
MAIN		X R	0672 88-130-100-080	RES,10-1/4W J	a	b	c
MAIN		X R	0673 88-128-100-080	C-RES, 10-1/8W J	a	b	c
MAIN		X R	0674 88-128-100-080	C-RES, 10-1/8W J	a	b	c
MAIN		X R	0675 88-130-221-080	RES,220-1/4W J	a	b	c
MAIN		X R	0676 88-130-221-080	RES,220-1/4W J	a	b	c
MAIN		X R	0678 88-130-221-080	RES,220-1/4W J	a	b	c
MAIN		X R	0679 88-130-221-080	RES,220-1/4W J	a	b	c
MAIN		X R	0680 88-108-122-080	C-RES,U 1.2K-1/16W J	a	b	c
MAIN		O R	0681 88-108-223-080	C-RES,U 22K-1/16W J	a	b	c
MAIN		O R	0682 88-108-223-080	C-RES,U 22K-1/16W J	a	b	c
MAIN		X R	0683 88-121-102-080	RES,1K-1/8W J	a	b	c
MAIN		O R	0684 88-108-102-080	C-RES,U 1K-1/16W J	a	b	c
MAIN		X R	0685 88-121-102-080	RES,1K-1/8W J	a	b	c
MAIN		O R	0686 88-108-103-080	C-RES,U 10K-1/16W J	a	b	c
MAIN		X R	0876 88-108-222-080	C-RES,U 2.2K-1/16W J	a	b	c
MAIN		O R	0877 88-108-473-080	C-RES,U 47K-1/16W J	a	b	c
MAIN		X R	0878 88-108-000-080	C-JUMPER,U	a	b	c
MAIN		O R	0880 88-108-473-080	C-RES,U 47K-1/16W J	a	b	c
MAIN		X R	0882 88-108-000-080	C-JUMPER,U	a	b	c
MAIN		X R	0883 88-108-222-080	C-RES,U 2.2K-1/16W J	a	b	c
MAIN		X W	0601 8B-NF6-665-010	WIRE ASSY,80 BLACK 24	a	b	c
MAIN		O WH	0002 87-A90-510-010	HLDR,WIRE 2.5-9P	a	b	c
MAIN		O X	0301 87-A70-363-010	VIB,XTAL 16.9344MHZ CSA-309	a	b	c
PT	!	O C	0250 87-A10-479-080	CAP,CER 2200P-250 M E KH	a	b	c
PT		O CN	0201 87-A61-110-010	CONN,9P V TID-A	a	b	c
PT		O CN	0202 87-099-674-010	CONN,2P V VA	a	b	c
PT		S D	0251 87-020-465-080	DIODE,1SS133	a	b	c
PT		S D	0252 87-020-465-080	DIODE,1SS133	a	b	c
PT		S D	0253 87-020-465-080	DIODE,1SS133	a	b	c
PT		S D	0254 87-020-465-080	DIODE,1SS133	a	b	c
PT		S D	0255 87-020-465-080	DIODE,1SS133	a	b	c

ELECTRICAL PARTS LIST -11/15

! =  SAFETY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.

However, please note that not all components will be available as spare parts for after-sales service.

Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.

Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
PT	!	O	PT 0250	8C-CL3-630-010 PT,U/UC CCL-3	a	b	c
PT	!	O	PT 0251	8B-NF9-661-010 PT,SUB BNF U (TAM)	a	b	c
PT		O	R 0250	87-A01-010-080 RES,SD 2.2M-1/2W J RCR50+	a	b	c
PT	!	O	RY 0251	87-A91-418-010 RELAY,AC 12V G5PA-1-M	a	b	c
PT	!	O	W 0250	8Z-JBH-618-010 AC CORD,US BLK	a	b	c

ELECTRICAL PARTS LIST -12/15

! = SAFETY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.

However, please note that not all components will be available as spare parts for after-sales service.

Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.

Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL	CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
TUNER	O C	0772	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0783	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0784	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0785	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0786	87-010-787-080	C-CAP,U 0.022-25 K B GRM	a	b	c	
TUNER	O C	0788	87-012-167-080	C-CAP,U 5P-50 C CH GRM	a	b	c	
TUNER	O C	0789	87-010-787-080	C-CAP,U 0.022-25 K B GRM	a	b	c	
TUNER	O C	0790	87-010-787-080	C-CAP,U 0.022-25 K B GRM	a	b	c	
TUNER	O C	0792	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0793	87-A10-262-080	C-CAP,U 1-10 Z F	a	b	c	
TUNER	O C	0794	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0795	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0799	87-A12-070-040	CAP,E 33-25 SMG	a	b	c	
TUNER	O C	0800	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0801	87-A10-262-080	C-CAP,U 1-10 Z F	a	b	c	
TUNER	O C	0802	87-010-829-080	C-CAP,U 0.047-16 Z F CM/CB	a	b	c	
TUNER	O C	0804	87-A12-062-040	CAP,E 100-10 SMG	a	b	c	
TUNER	O C	0807	87-A10-463-080	C-CAP,U 0.47-10 Z F	a	b	c	
TUNER	O C	0808	87-A10-262-080	C-CAP,U 1-10 Z F	a	b	c	
TUNER	O C	0809	87-A10-262-080	C-CAP,U 1-10 Z F	a	b	c	
TUNER	O C	0810	87-A10-264-080	C-CAP,S 0.1-16 Z F	a	b	c	
TUNER	O C	0814	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0815	87-A10-463-080	C-CAP,U 0.47-10 Z F	a	b	c	
TUNER	O C	0816	87-A10-463-080	C-CAP,U 0.47-10 Z F	a	b	c	
TUNER	O C	0821	87-A11-796-080	C-CAP,S 4.7-10 Z F	a	b	c	
TUNER	O C	0822	87-012-193-080	C-CAP,U 82P-50 J CH GRM	a	b	c	
TUNER	O C	0823	87-012-272-080	C-CAP,U 680P-50 K B GRM	a	b	c	
TUNER	O C	0824	87-A11-796-080	C-CAP,S 4.7-10 Z F	a	b	c	
TUNER	O C	0825	87-A11-317-080	C-CAP,U 0.068U-16 K B	a	b	c	
TUNER	O C	0831	87-A12-069-040	CAP,E 22-25 SMG	a	b	c	
TUNER	O C	0837	87-A12-022-080	C-CAP,U 0.22-16 Z F	a	b	c	
TUNER	X C	0841	88-108-000-080	C-JUMPER,U	a	b	c	
TUNER	O C	0842	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	X C	0845	88-108-000-080	C-JUMPER,U	a	b	c	
TUNER	X C	0849	88-108-000-080	C-JUMPER,U	a	b	c	
TUNER	O C	0850	87-A10-262-080	C-CAP,U 1-10 Z F	a	b	c	
TUNER	O C	0851	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0852	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0853	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0860	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0861	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0901	87-012-169-080	C-CAP,U 7P-50 D CH GRM	a	b	c	
TUNER	X C	0906	88-108-000-080	C-JUMPER,U	a	b	c	
TUNER	O C	0909	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	b	c	
TUNER	O C	0911	87-012-170-080	C-CAP,U 8P-50 D CH GRM	a	b	c	
TUNER	O C	0912	87-012-195-080	C-CAP,U 100P-50 J CH GRM	a	b	c	
TUNER	O C	0914	86-ZA1-616-080	C-CAP,U 0.01-50 K B (MUR)	a	b	c	
TUNER	O C	0915	86-ZA1-616-080	C-CAP,U 0.01-50 K B (MUR)	a	b	c	
TUNER	O C	0917	87-012-164-080	C-CAP,U 2P-50 C CH GRM	a	b	c	
TUNER	O C	0920	87-012-180-080	C-CAP,U 22P-50 J CH GRM	a	b	c	
TUNER	O C	0921	87-012-186-080	C-CAP,U 39P-50 J CH GRM	a	b	c	
TUNER	O C	0922	87-012-174-080	C-CAP,U 12P-50 J CH GRM	a	b	c	
TUNER	O C	0923	87-012-270-080	C-CAP,U 470P-50 K B GRM	a	b	c	
TUNER	O C	0924	87-012-162-080	C-CAP,U 1P-50 C CH GRM	a	b	c	
TUNER	O C	0926	87-012-195-080	C-CAP,U 100P-50 J CH GRM	a	b	c	
TUNER	O C	0927	87-012-195-080	C-CAP,U 100P-50 J CH GRM	a	b	c	
TUNER	O C	0931	87-A12-319-080	C-CAP,U 0.1-25 K B	a	b	c	
TUNER	O C	0932	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0933	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0934	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0935	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0936	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0937	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0938	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0939	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0961	87-012-172-080	C-CAP,U 10P-50 D CH GRM	a	b	c	
TUNER	O C	0962	87-A10-262-080	C-CAP,U 1-10 Z F	a	b	c	
TUNER	O C	0963	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
TUNER	O C	0971	87-010-381-010	CAP,E 330-16 M SME	a	b	c	
TUNER	O C	0972	87-A11-063-080	C-CAP,S 4.7-10 Z F	a	b	c	
TUNER	O C	0973	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0974	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0976	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
TUNER	O C	0979	87-012-195-080	C-CAP,U 100P-50 J CH GRM	a	b	c	
TUNER	O C	0981	87-A12-066-040	CAP,E 47-16 SMG	a	b	c	
TUNER	O C	0982	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	b	c	
TUNER	O C	0983	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0984	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	
TUNER	O C	0985	87-012-195-080	C-CAP,U 100P-50 J CH GRM	a	b	c	
TUNER	O C	0987	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	b	c	

ELECTRICAL PARTS LIST -13/15

! = SAFETY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.

However, please note that not all components will be available as spare parts for after-sales service.

Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.

Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C		REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL	CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
TUNER	O	C	0988	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	a	b	c
TUNER	O	C	0989	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	a	b	c
TUNER	O	C	0990	87-012-195-080	C-CAP,U 100P-50 J CH GRM	a	a	b	c
TUNER	O	C	0991	87-012-176-080	C-CAP,U 15P-50 J CH GRM	a	a	b	c
TUNER	O	C	0992	87-012-176-080	C-CAP,U 15P-50 J CH GRM	a	a	b	c
TUNER	O	C	0993	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	a	b	c
TUNER	O	C	0994	87-012-195-080	C-CAP,U 100P-50 J CH GRM	a	a	b	c
TUNER	O	C	0995	87-012-274-080	C-CAP,U 1000P-50 K B GRM	a	a	b	c
TUNER	O	C	0996	87-012-195-080	C-CAP,U 100P-50 J CH GRM	a	a	b	c
TUNER	O	C	0997	87-010-831-080	C-CAP,U 0.1-16 Z F GRM	a	a	b	c
TUNER	O	C	0998	87-A12-066-040	CAP,E 47-16 SMG	a	a	b	c
TUNER	O	C	0999	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	a	b	c
TUNER	O	CF	0831	87-008-261-010	FLTR,CF SFE10.7MA5	a	a	b	c
TUNER	O	CF	0832	87-008-261-010	FLTR,CF SFE10.7MA5	a	a	b	c
TUNER	O	CN	0991	87-A60-700-010	CONN,13P H GRY TUC-P13X-C1	a	a	b	c
TUNER	X	D	0801	88-100-000-010	PLATING-JW, 0.58 SN95	a	a	b	c
TUNER	S	D	0803	87-020-465-080	DIODE,1SS133	a	a	b	c
TUNER	X	D	0896	88-100-000-010	PLATING-JW, 0.58 SN95	a	a	b	c
TUNER	O	D	0902	87-A40-916-040	C-VARI-CAP,HVC202A	a	a	b	c
TUNER	O	D	0903	87-A40-916-040	C-VARI-CAP,HVC202A	a	a	b	c
							CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
TUNER	O	D	0951	87-A40-799-040	C-VARI-CAP,KV1610S	a	a	b	c
TUNER	S	D	0991	87-017-149-080	ZENER,HZS6A2L	a	a	b	c
TUNER	S	IC	0801	87-A22-060-010	IC,LA1845N-A	a	a	b	c
TUNER	S	IC	0991	87-A21-928-010	IC,LC72131D-N	a	a	b	c
TUNER	O	J	0832	87-A61-535-010	TERMINAL,ANT 2P HSP-302V	a	a	b	c
TUNER	O	J	0940	87-A60-633-010	CONN,2P H 2.5MM JMT	a	a	b	c
TUNER	X	JR	0782	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	X	JR	0783	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	X	JR	0801	88-129-000-080	C-JUMPER, 3216	a	a	b	c
TUNER	X	JR	0802	88-129-000-080	C-JUMPER, 3216	a	a	b	c
TUNER	X	JR	0805	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	X	JR	0806	88-129-000-080	C-JUMPER, 3216	a	a	b	c
TUNER	X	JR	0807	88-129-000-080	C-JUMPER, 3216	a	a	b	c
TUNER	X	JR	0822	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	X	JR	0835	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	X	JR	0887	88-129-000-080	C-JUMPER, 3216	a	a	b	c
TUNER	X	JR	0902	88-118-000-080	C-JUMPER,S	a	a	b	c
TUNER	X	JR	0904	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	X	JR	0907	88-118-000-080	C-JUMPER,S	a	a	b	c
TUNER	X	JR	0951	88-129-000-080	C-JUMPER, 3216	a	a	b	c
							CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
TUNER	X	JR	0953	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	X	JR	0991	88-118-000-080	C-JUMPER,S	a	a	b	c
TUNER	O	L	0801	87-A50-694-010	COIL,FM-DET 2 (COILS)	a	a	b	c
TUNER	O	L	0802	87-A91-551-010	FLTR,PCFJZH-450 L(TOK)	a	a	b	c
TUNER	O	L	0811	87-005-847-080	COIL,2.2UH K CECS	a	a	b	c
TUNER	O	L	0832	87-005-847-080	COIL,2.2UH K CECS	a	a	b	c
TUNER	O	L	0901	87-A50-110-010	COIL,FM BPF EX	a	a	b	c
TUNER	O	L	0903	86-ZA1-624-010	COIL,FM RF-1	a	a	b	c
TUNER	O	L	0904	86-ZA1-622-010	COIL,FM ANT/RF-U	a	a	b	c
TUNER	X	L	0905	88-100-000-010	PLATING-JW, 0.58 SN95	a	a	b	c
TUNER	O	L	0906	87-005-847-080	COIL,2.2UH K CECS	a	a	b	c
TUNER	O	L	0907	86-ZA1-627-010	COIL,FM OSC-U	a	a	b	c
TUNER	O	L	0908	88-ZA1-624-010	COIL,FM IFT 7-6.2 (COILS)	a	a	b	c
TUNER	O	L	0954	87-A50-752-010	COIL,MW ANT(2B)	a	a	b	c
TUNER	O	L	0955	87-A50-753-010	COIL,MW OSC(2B)	a	a	b	c
TUNER	S	Q	0835	89-327-143-080	C-TR,2SC27140	a	a	b	c
TUNER	S	Q	0836	87-A30-677-040	C-TR,SRA2207S	a	a	b	c
TUNER	S	Q	0901	89-503-602-080	C-FET,2SK360E	a	a	b	c
TUNER	S	Q	0902	87-A30-664-080	C-TR,2SC2620B	a	a	b	c
TUNER	S	Q	0904	87-A30-699-040	C-TR,2SC5477-T22	a	a	b	c
							CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
TUNER	S	Q	0981	87-A30-494-080	TR,2SA1980G	a	a	b	c
TUNER	S	Q	0982	87-A30-076-080	C-TR,2SC3052F	a	a	b	c
TUNER	S	Q	0982	87-A30-540-040	C-TR,2SC5343SF/S(G)	.	.	b	c
TUNER	S	Q	0983	87-A30-076-080	C-TR,2SC3052F	a	a	b	c
TUNER	S	Q	0983	87-A30-540-040	C-TR,2SC5343SF/S(G)	.	.	b	c
TUNER	O	R	0789	88-108-223-080	C-RES,U 22K-1/16W J	a	a	b	c
TUNER	O	R	0790	87-012-286-080	C-CAP,U 0.01-25 K B GRM	a	a	b	c
TUNER	O	R	0791	88-108-102-080	C-RES,U 1K-1/16W J	a	a	b	c
TUNER	X	R	0793	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	X	R	0795	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	O	R	0801	88-108-103-080	C-RES,U 10K-1/16W J	a	a	b	c
TUNER	O	R	0802	88-108-223-080	C-RES,U 22K-1/16W J	a	a	b	c
TUNER	X	R	0803	88-108-183-080	C-RES,U 18K-1/16W J	a	a	b	c
TUNER	X	R	0804	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	O	R	0805	88-108-332-080	C-RES,U 3.3K-1/16W J	a	a	b	c
TUNER	X	R	0806	88-108-682-080	C-RES,U 6.8K-1/16W J	a	a	b	c
TUNER	X	R	0809	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	X	R	0810	88-108-000-080	C-JUMPER,U	a	a	b	c
TUNER	O	R	0813	88-108-224-080	C-RES,U 220K-1/16W J	a	a	b	c
TUNER	X	R	0814	88-108-105-080	C-RES,U 1M-1/16W J	a	a	b	c

ELECTRICAL PARTS LIST -14/15

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UNIT-NAME		! C	REF-NO	PARTS-NO	PARTS-NAME		SUFFIX&MODEL	
						CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
TUNER		X R	0815	88-121-682-080	RES, 6.8K-1/8W J	a	b	c
TUNER		O R	0818	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
TUNER		X R	0823	88-108-273-080	C-RES, U 27K-1/16W J	a	b	c
TUNER		O R	0826	88-108-223-080	C-RES, U 22K-1/16W J	a	b	c
TUNER		X R	0832	88-108-391-080	C-RES, U 390-1/16W J	a	b	c
TUNER		X R	0840	88-108-221-080	C-RES, U 220-1/16W J	a	b	c
TUNER		O R	0850	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
TUNER		O R	0852	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
TUNER		O R	0853	88-108-102-080	C-RES, U 1K-1/16W J	a	b	c
TUNER		X R	0854	88-108-331-080	C-RES, U 330-1/16W J	a	b	c
TUNER		X R	0855	88-108-183-080	C-RES, U 18K-1/16W J	a	b	c
TUNER		O R	0856	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
TUNER		X R	0857	88-108-181-080	C-RES, U 180-1/16W J	a	b	c
TUNER		X R	0860	88-121-101-080	RES, 100-1/8W J	a	b	c
TUNER		X R	0903	88-108-221-080	C-RES, U 220-1/16W J	a	b	c
TUNER		O R	0904	88-108-473-080	C-RES, U 47K-1/16W J	a	b	c
TUNER		O R	0905	88-108-102-080	C-RES, U 1K-1/16W J	a	b	c
TUNER		X R	0906	88-108-564-080	C-RES, U 560K-1/16W J	a	b	c
TUNER		X R	0908	88-108-000-080	C- JUMPER, U	a	b	c
TUNER		X R	0911	88-108-121-080	C-RES, U 120-1/16W J	a	b	c
						CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
TUNER		O R	0912	88-108-473-080	C-RES, U 47K-1/16W J	a	b	c
TUNER		X R	0913	88-108-472-080	C-RES, U 4.7K-1/16W J	a	b	c
TUNER		X R	0914	88-108-472-080	C-RES, U 4.7K-1/16W J	a	b	c
TUNER		O R	0917	88-108-101-080	C-RES, U 100-1/16W J	a	b	c
TUNER		X R	0918	88-108-000-080	C- JUMPER, U	a	b	c
TUNER		X R	0945	88-108-104-080	C-RES, U 100K-1/16W J	a	b	c
TUNER		X R	0962	88-121-221-080	RES, 220-1/8W J	a	b	c
TUNER		X R	0964	88-108-330-080	C-RES, U 33-1/16W J	a	b	c
TUNER		O R	0974	88-108-101-080	C-RES, U 100-1/16W J	a	b	c
TUNER		O R	0975	88-108-562-080	C-RES, U 5.6K-1/16W J	a	b	c
TUNER		O R	0976	88-108-102-080	C-RES, U 1K-1/16W J	a	b	c
TUNER		O R	0977	88-108-102-080	C-RES, U 1K-1/16W J	a	b	c
TUNER		X R	0978	88-108-681-080	C-RES, U 680-1/16W J	a	b	c
TUNER		X R	0980	88-108-684-080	C-RES, U 680K-1/16W J	a	b	c
TUNER		X R	0981	88-121-471-080	RES, 470-1/8W J	a	b	c
TUNER		O R	0982	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
TUNER		O R	0983	88-108-562-080	C-RES, U 5.6K-1/16W J	a	b	c
TUNER		O R	0984	88-108-562-080	C-RES, U 5.6K-1/16W J	a	b	c
TUNER		X R	0985	88-121-471-080	RES, 470-1/8W J	a	b	c
TUNER		X R	0986	88-108-222-080	C-RES, U 2.2K-1/16W J	a	b	c
						CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
TUNER		O R	0988	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
TUNER		X R	0989	88-121-102-080	RES, 1K-1/8W J	a	b	c
TUNER		O R	0990	88-108-563-080	C-RES, U 56K-1/16W J	a	b	c
TUNER		O R	0992	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
TUNER		O R	0994	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
TUNER		O R	0996	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
TUNER		X R	0997	88-108-154-080	C-RES, U 150K-1/16W J	a	b	c
TUNER		O R	0998	88-108-102-080	C-RES, U 1K-1/16W J	a	b	c
TUNER		O R	0999	88-108-103-080	C-RES, U 10K-1/16W J	a	b	c
TUNER		X SH	0901	8C-ZA3-604-010	SHLD-CASE, CZA-3	a	b	c
TUNER		X SH	0902	8B-ZA3-619-010	SHLD-CASE, BZA-3 EZ	a	b	c
TUNER		O X	0992	87-A70-306-010	VIB, XTAL 4.500MHZ CSA-309ST	a	b	c

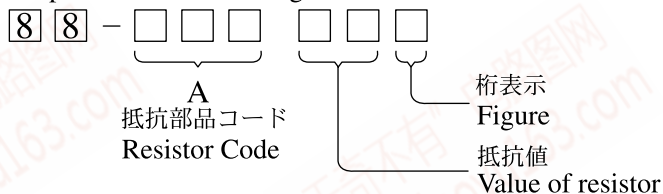
ELECTRICAL PARTS LIST -15/15

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION-1/1



E C B
2SA1981Y
2SD655E



B C E
2SA1980G



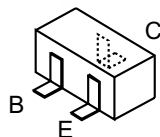
B C E
2BS1342
2SD1933



G D S
2SC5477
2SK2937

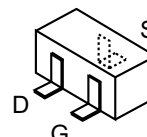


2N5551C



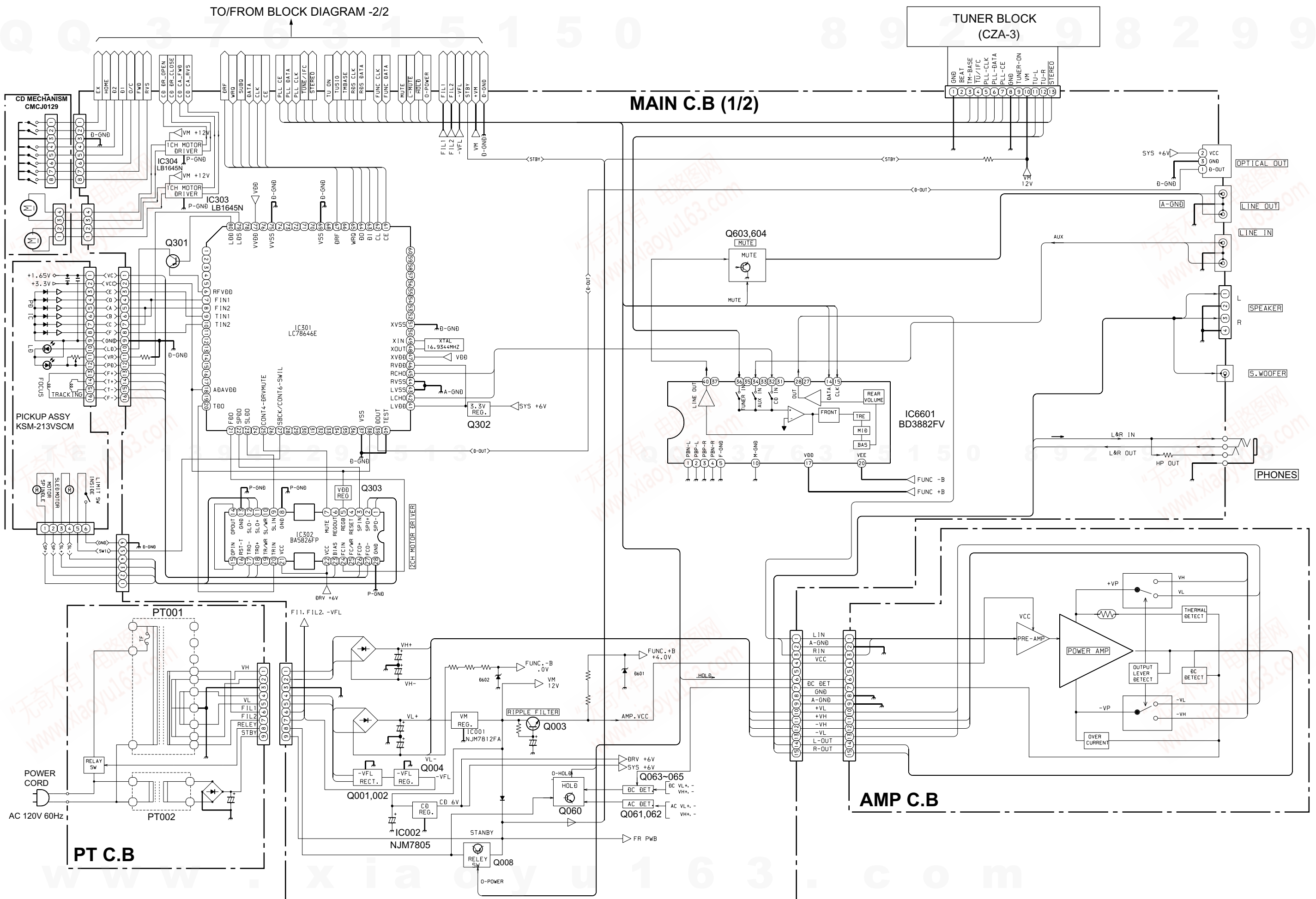
2SC2620B
2SA1235F
2SC2714O
2SC3052
2SC5343SF/S(G)

2SB1218AQRS
2SD1819AQRS
DTC114YKA
SRA2202S
SRA2207S
SBT5401

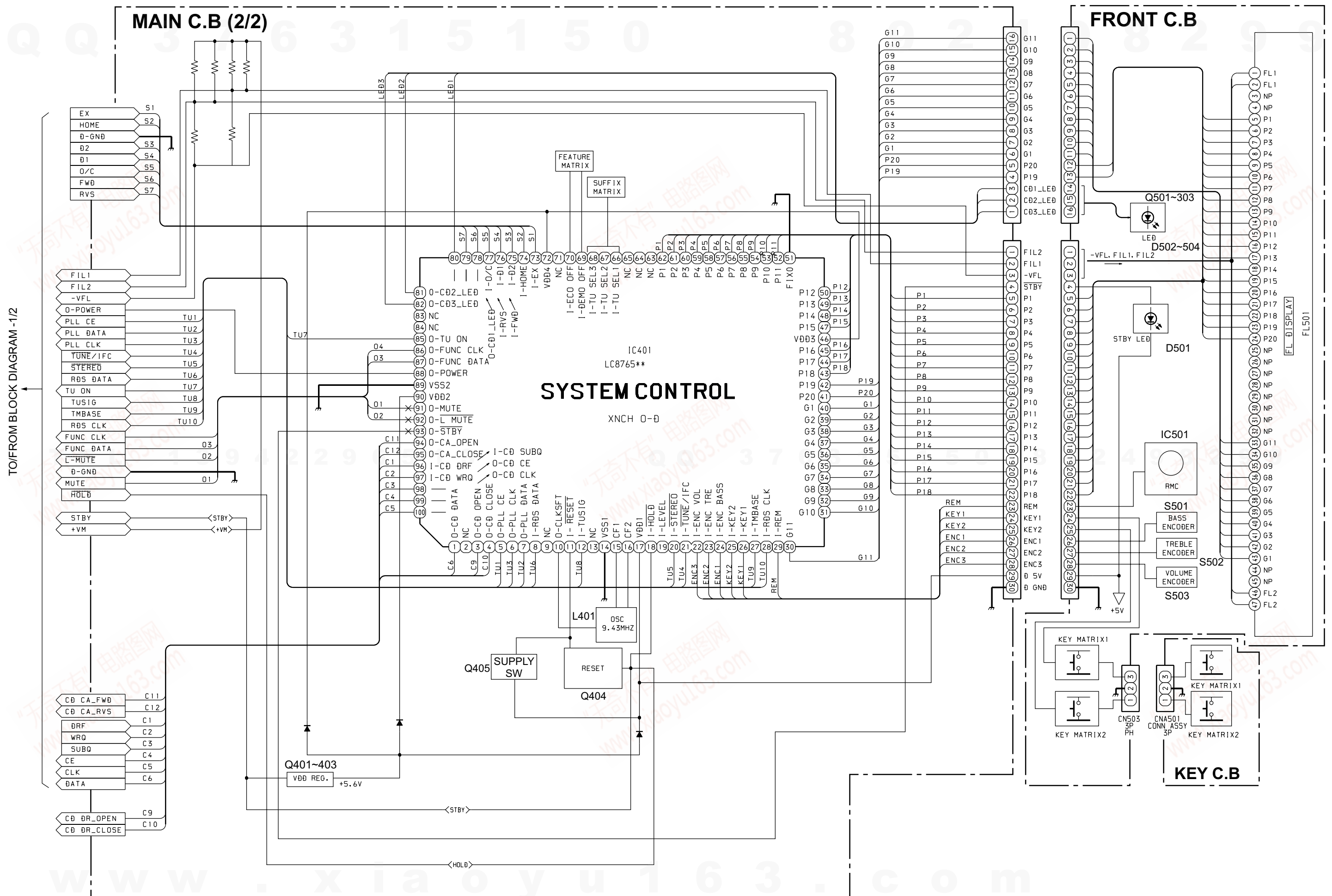


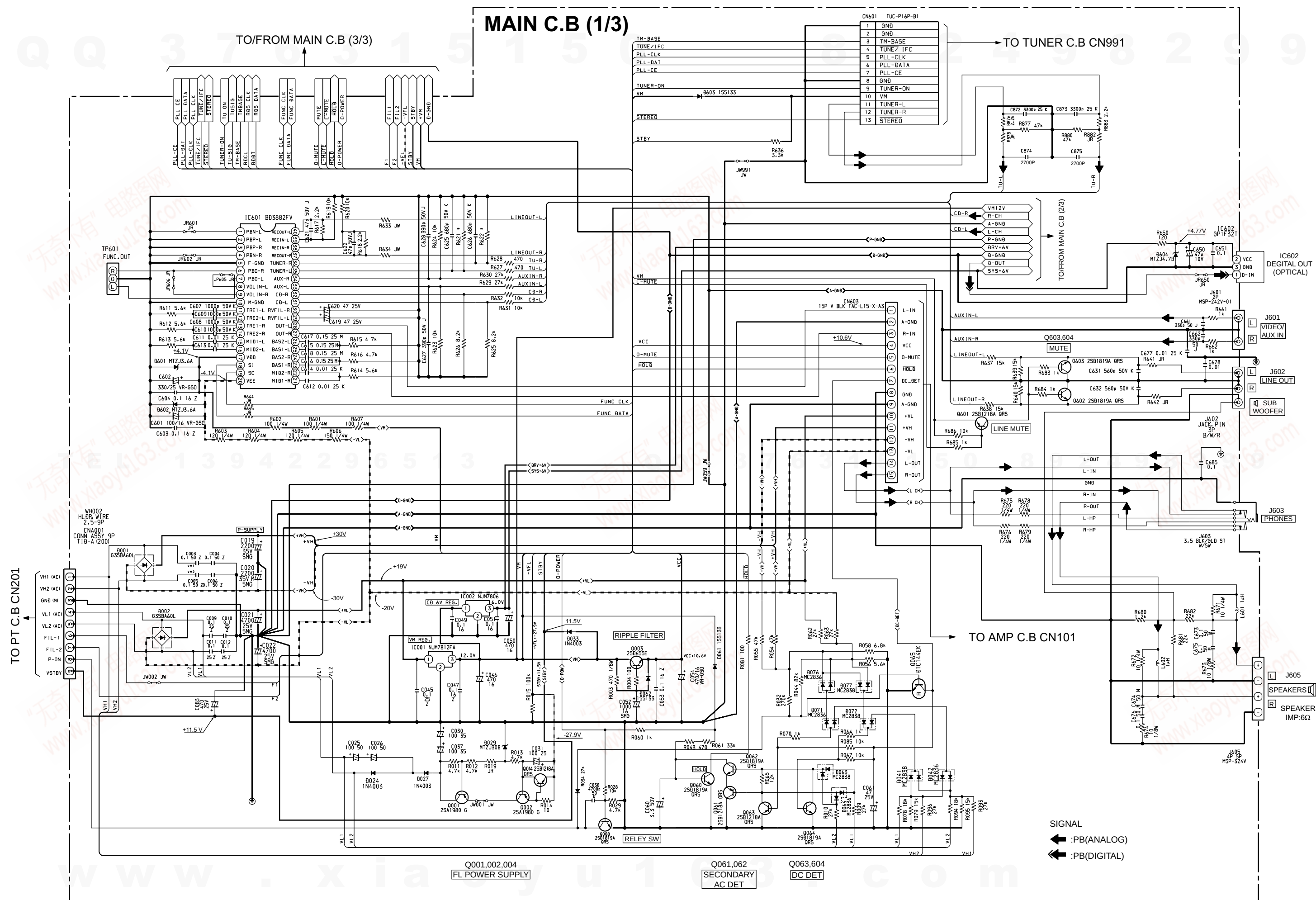
2SK360E

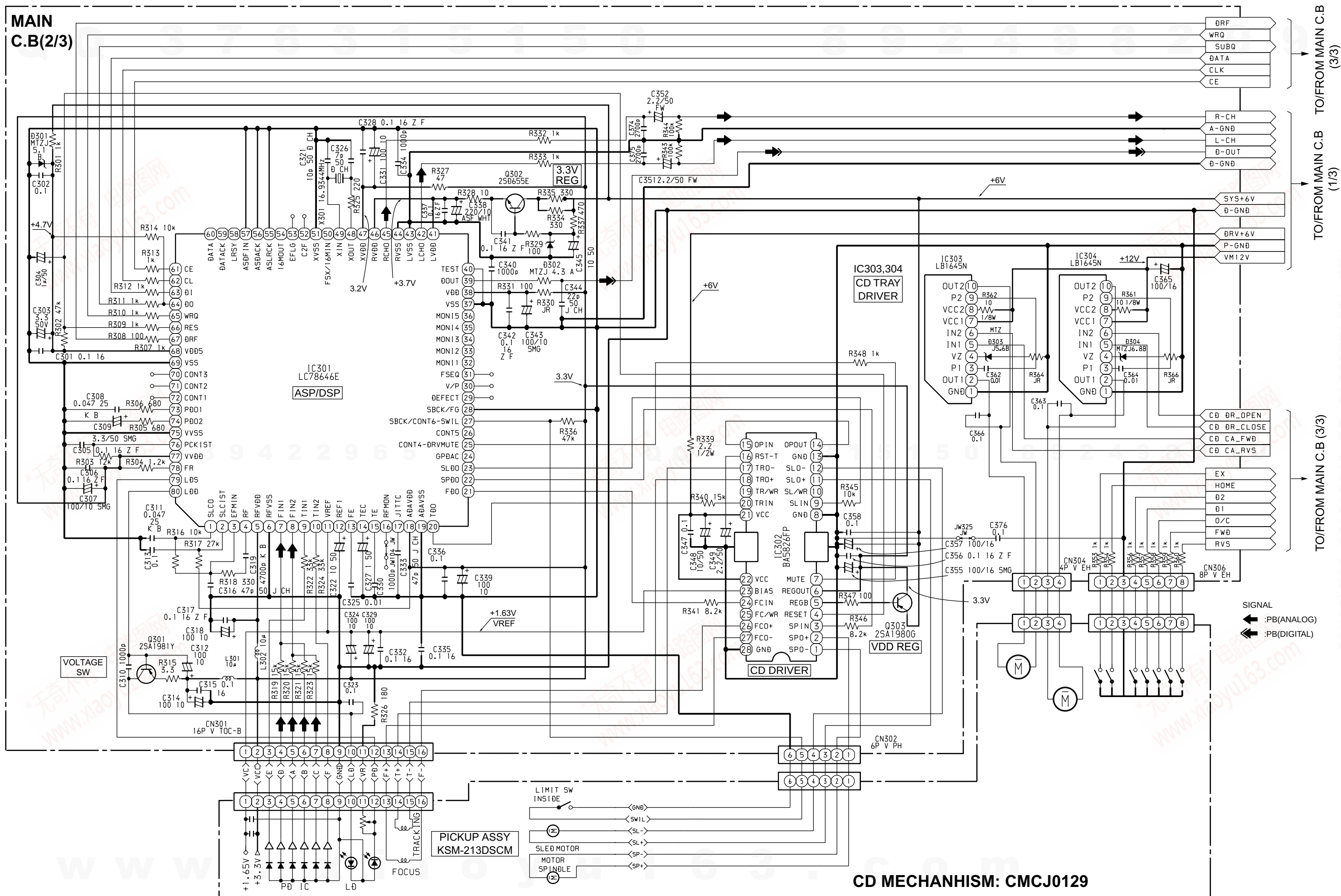
BLOCK DIAGRAM -1/2

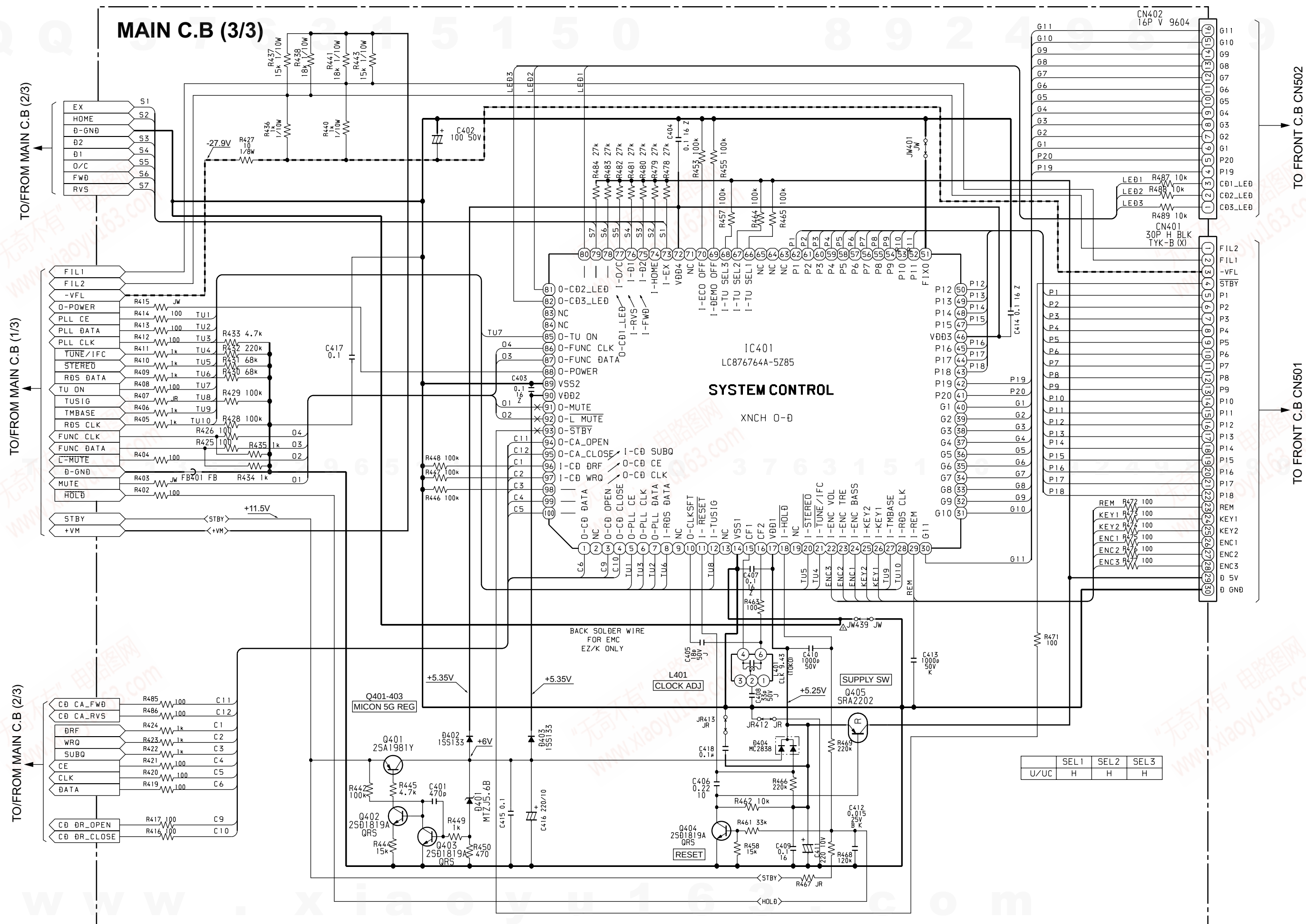


BLOCK DIAGRAM -2/2

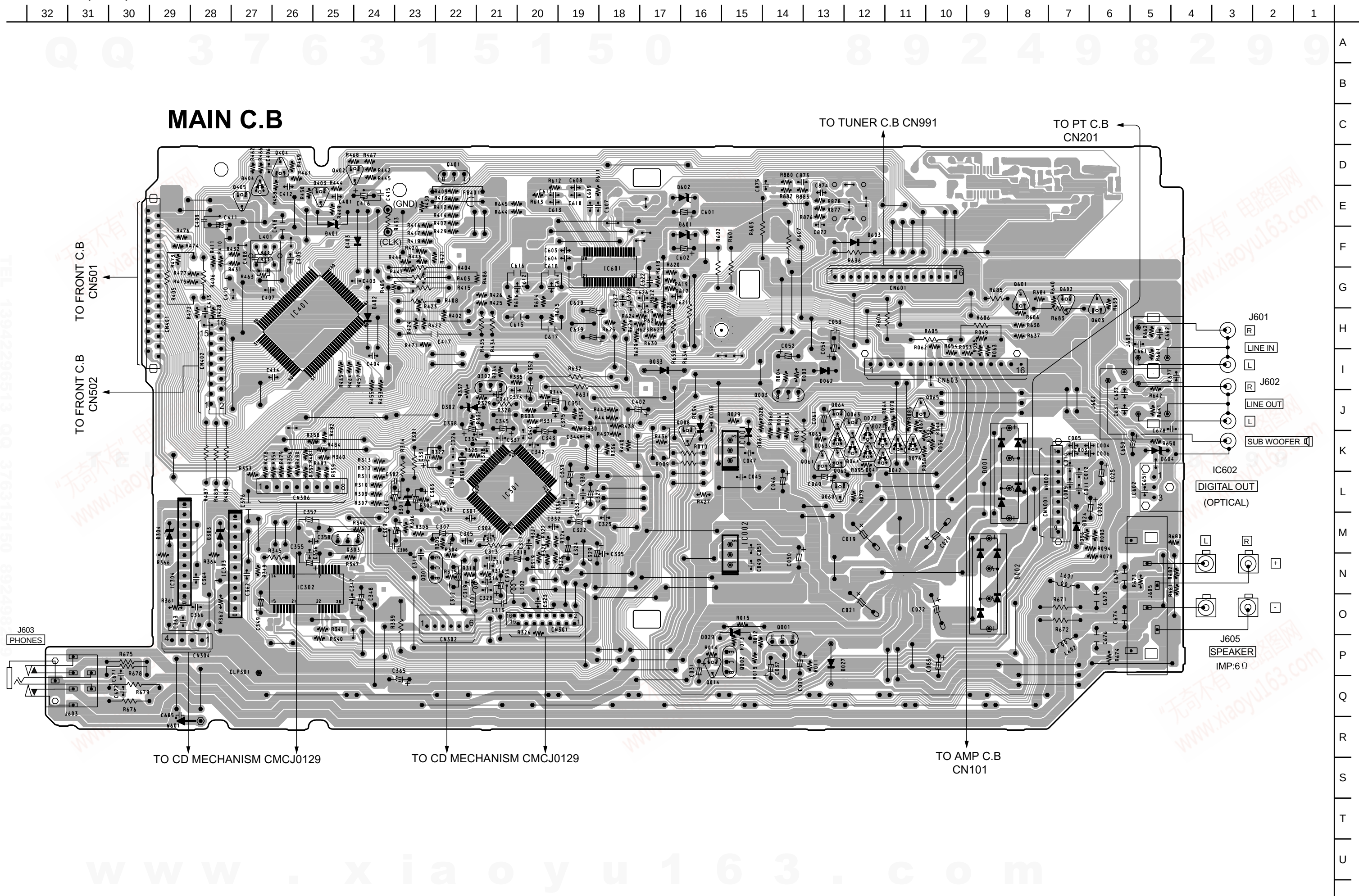




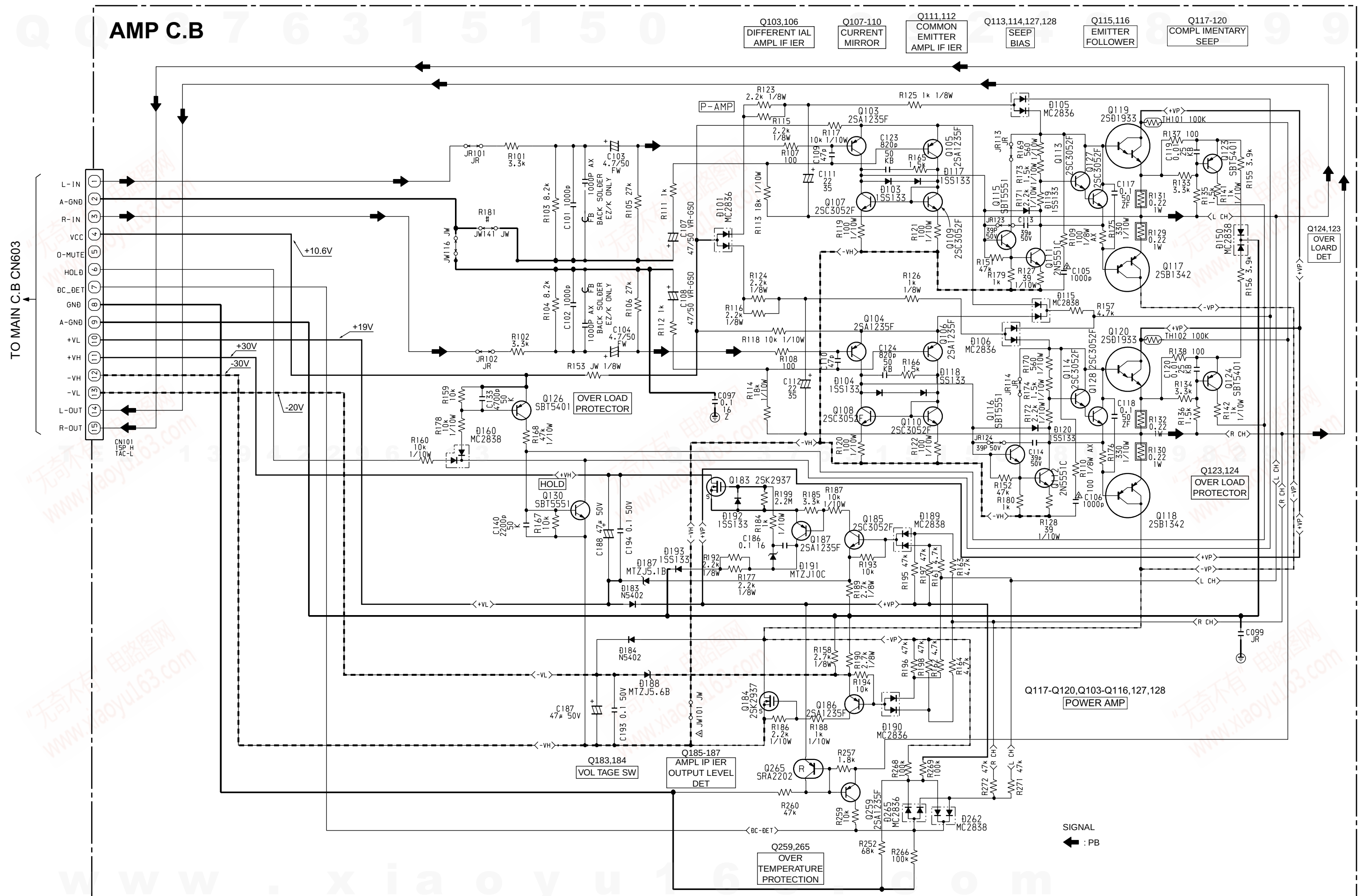




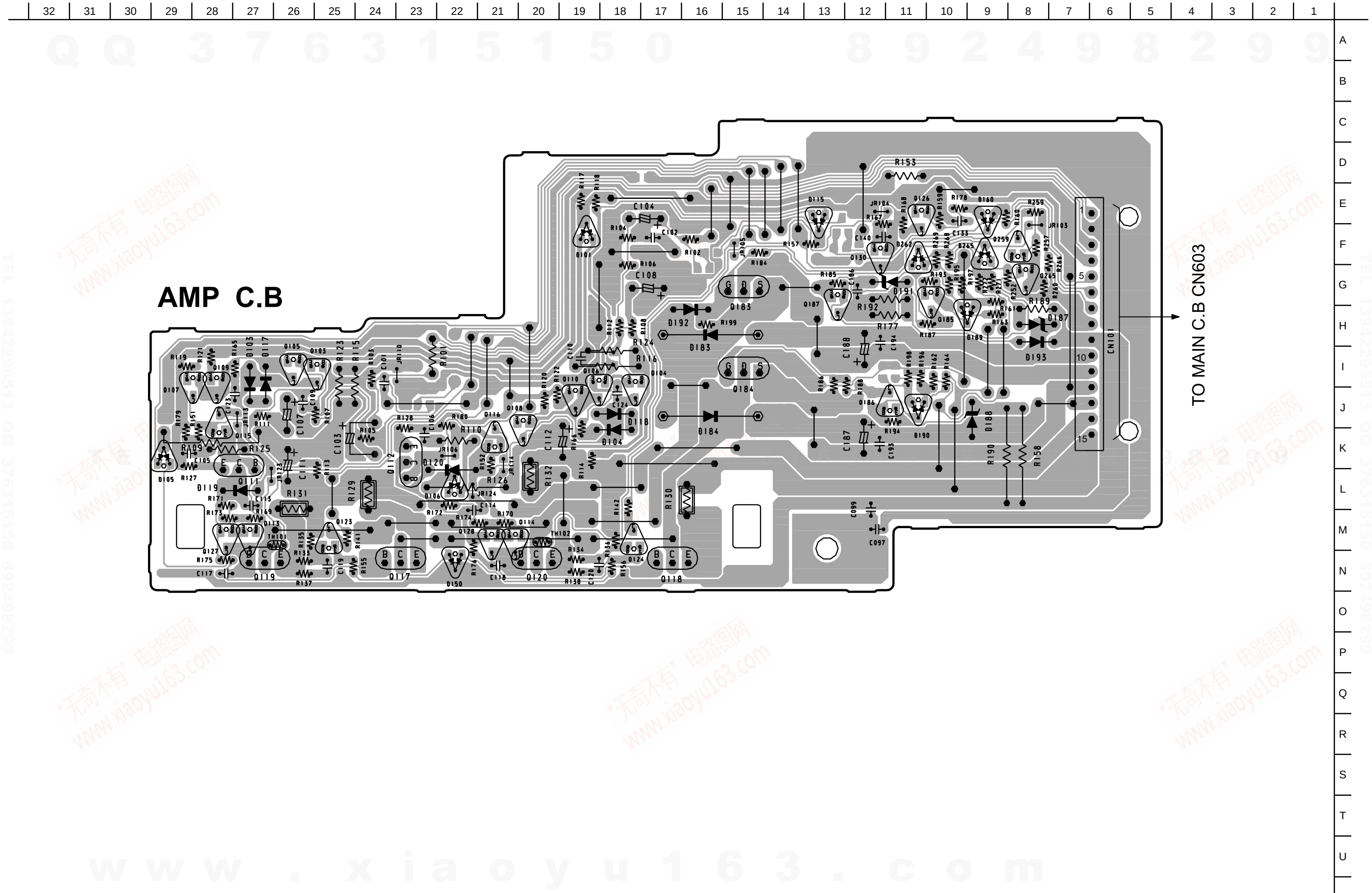
WIRING-1/5(MAIN)



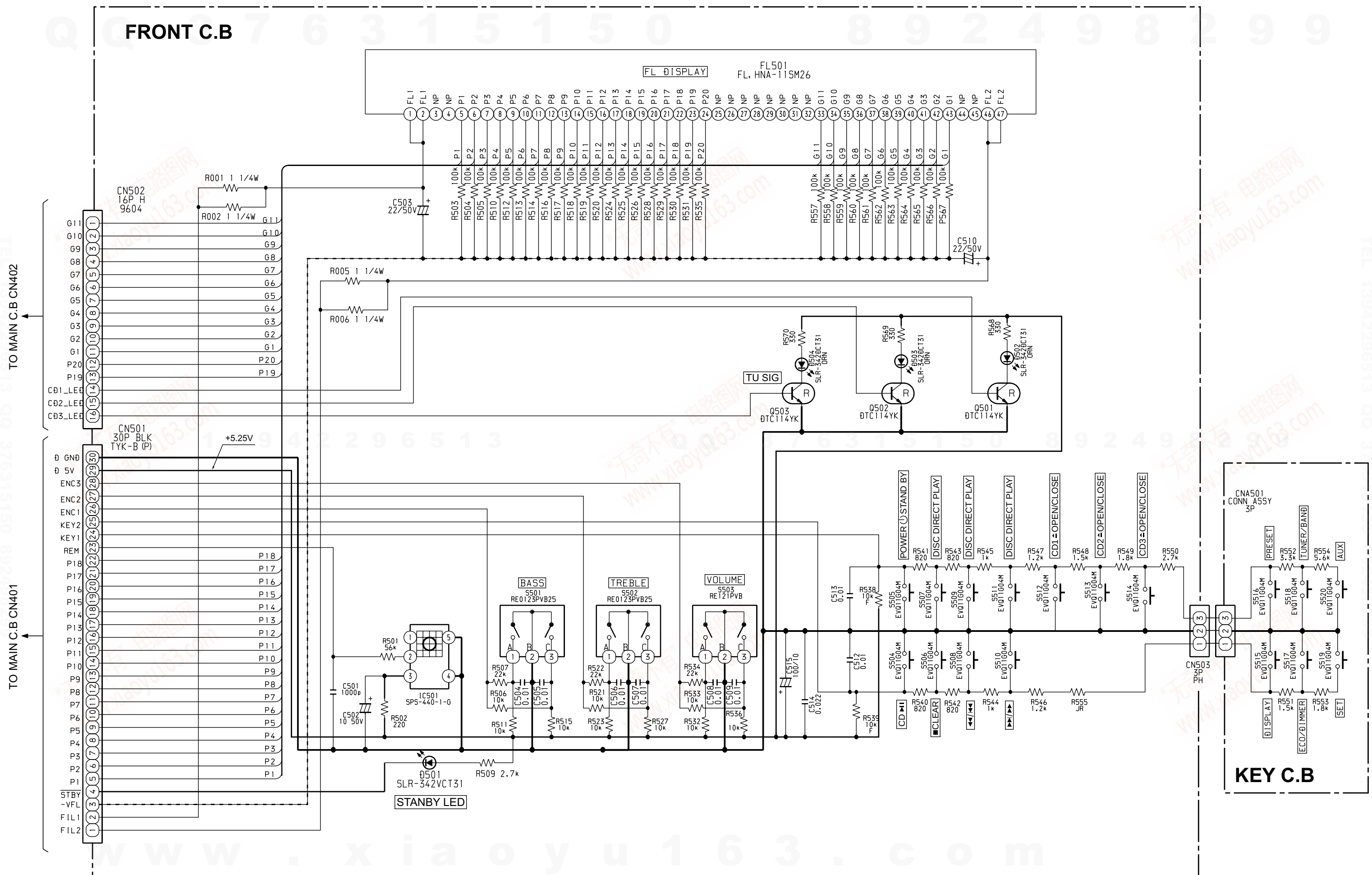
SCHEMATIC DIAGRAM -4/7 (AMP)



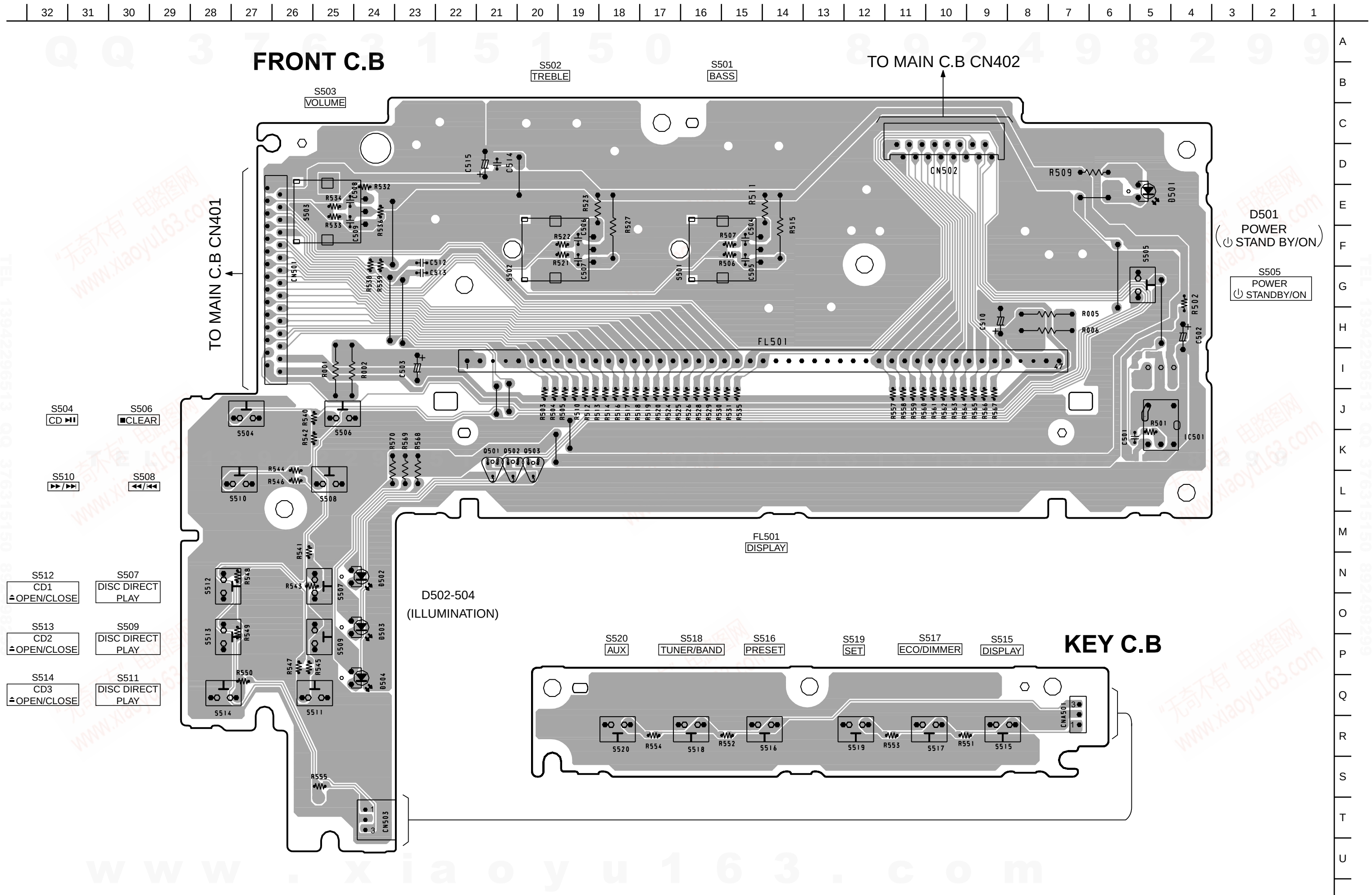
WIRING -2/5 (AMP)



SCHEMATIC DIAGRAM -5/7 (FRONT/KEY)



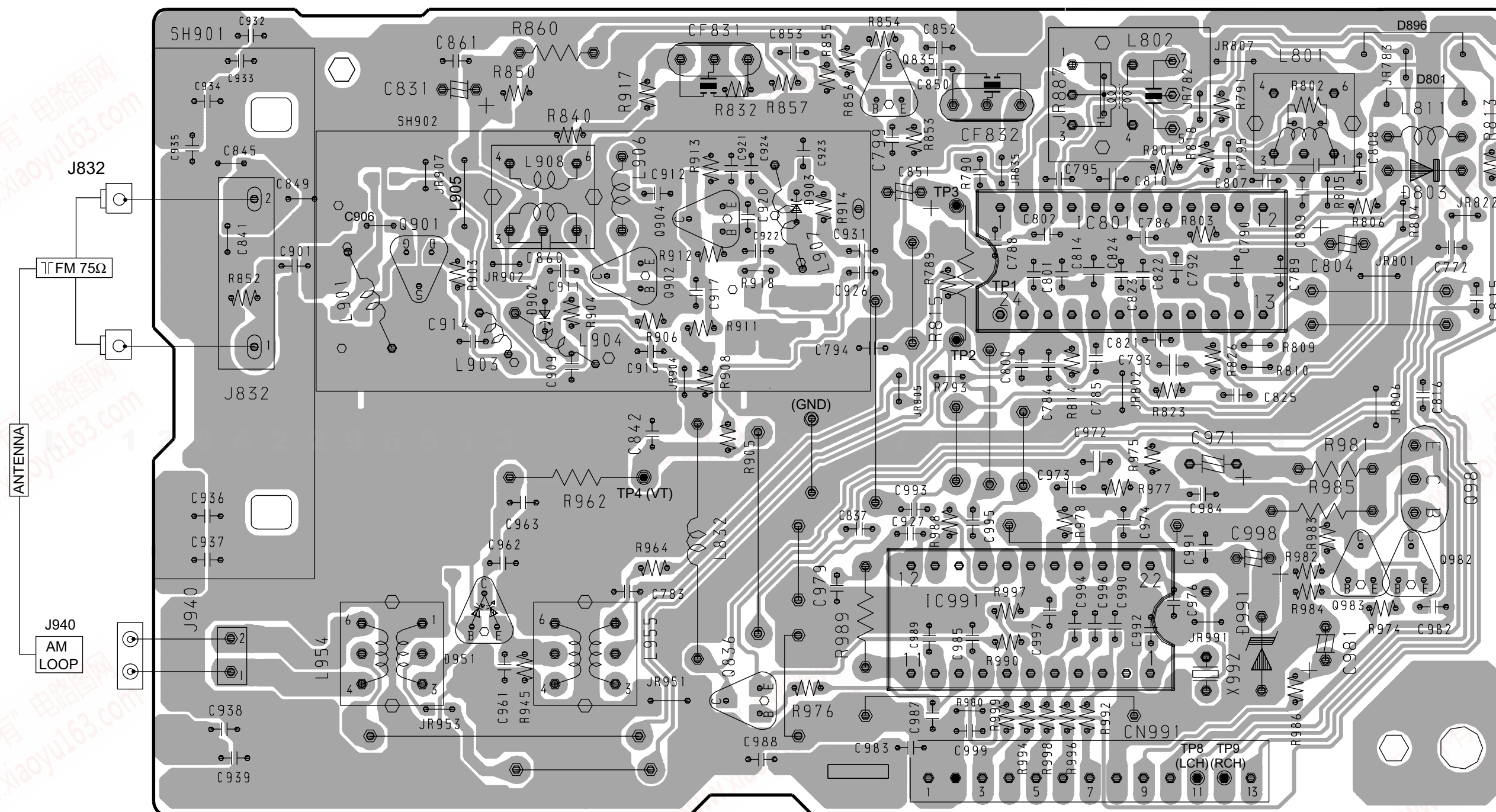
WIRING-3/5(FRONT/KEY)



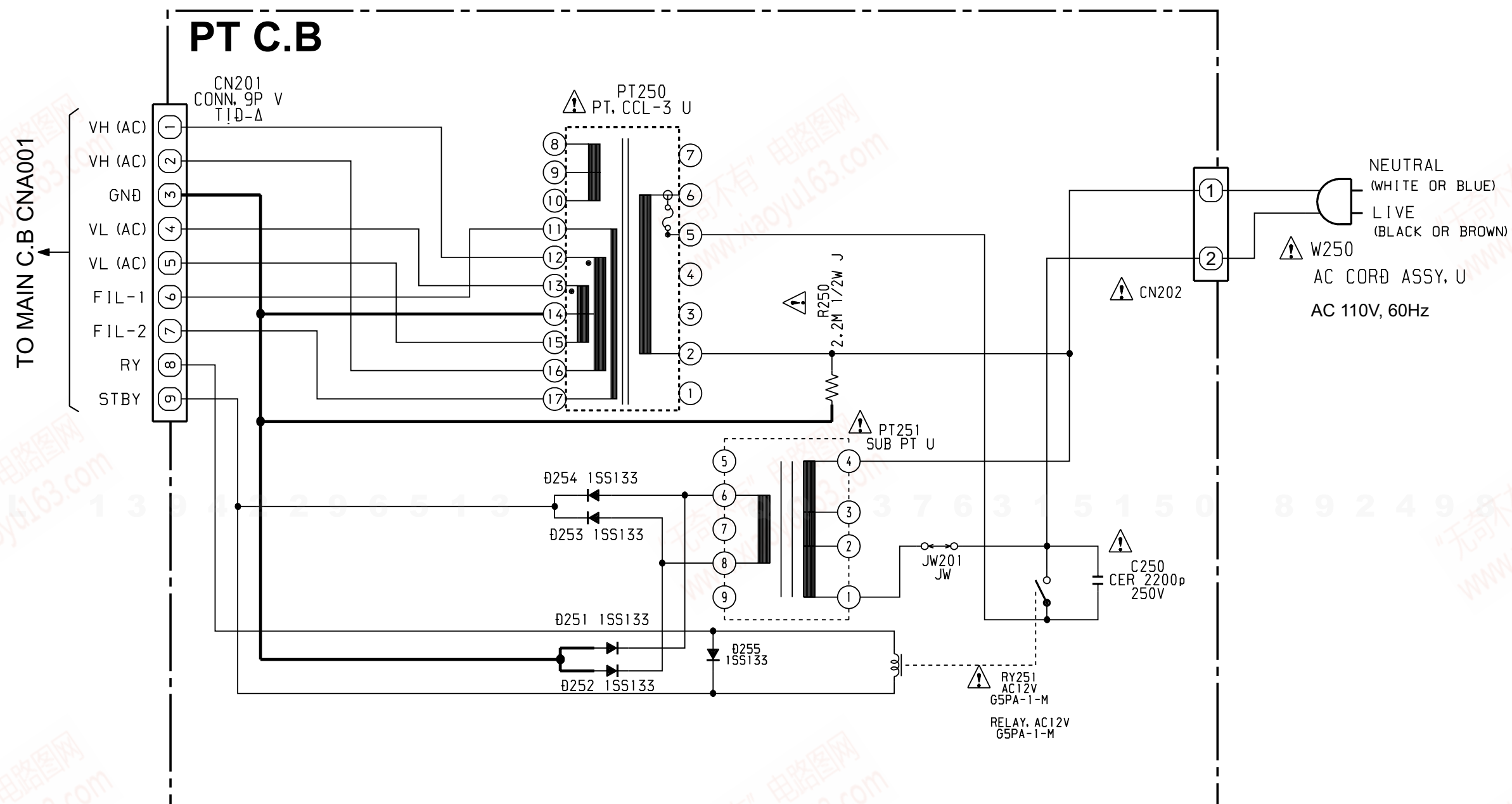


32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	---	---	---	---

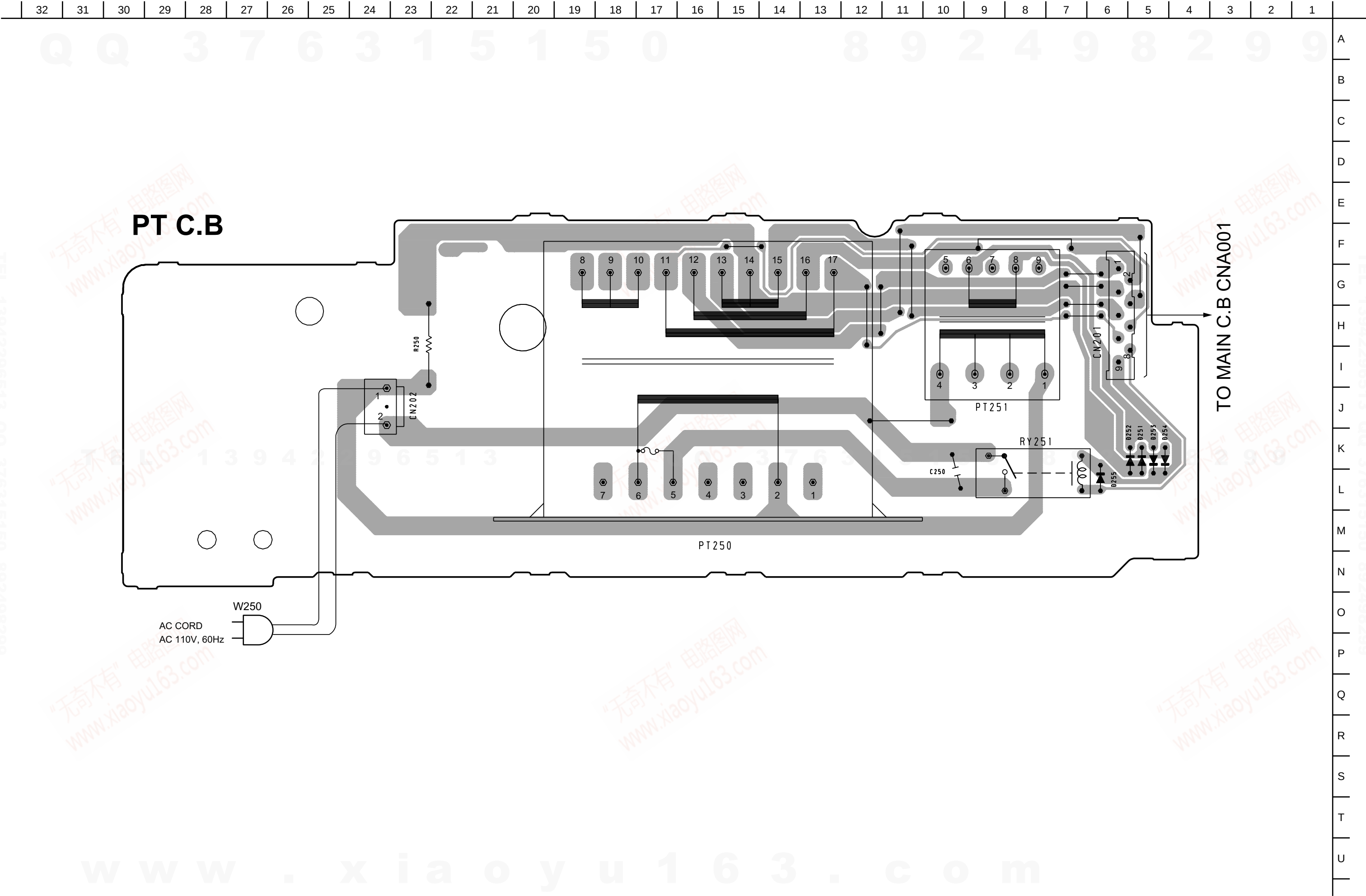
TUNER C.B



TO MAIN C.B
CN702

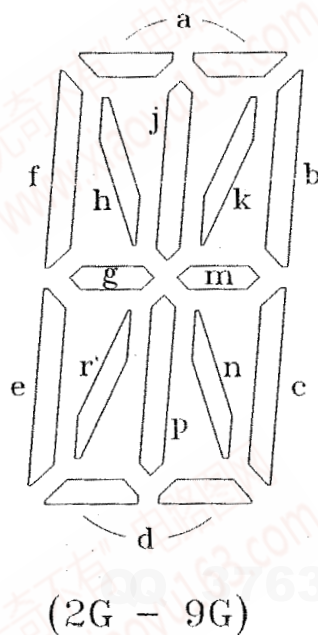
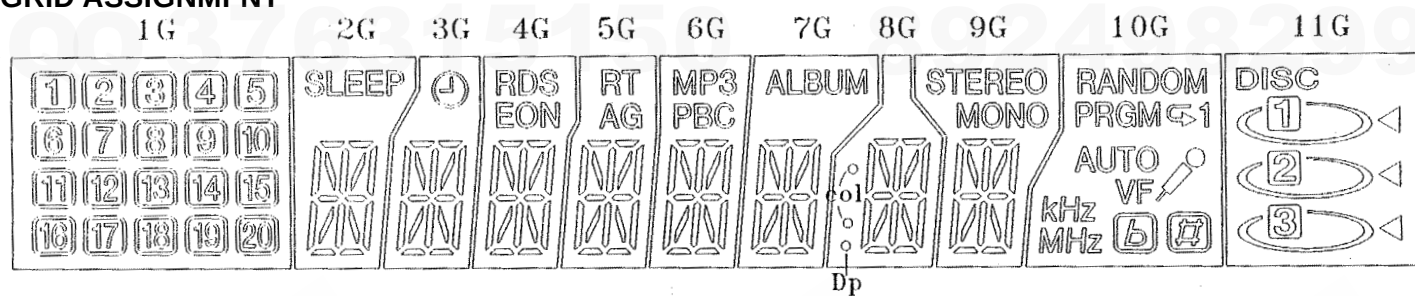


WIRING -5/5 (PT)



FL(HNA-11 SM26) GRID ASSIGNMENT / ANODE CONNECTION

GRID ASSIGNMENT

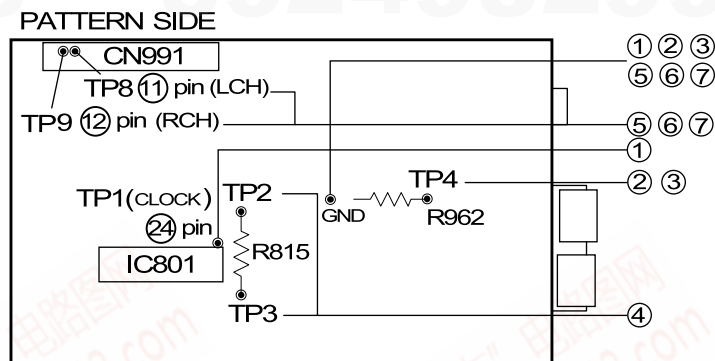
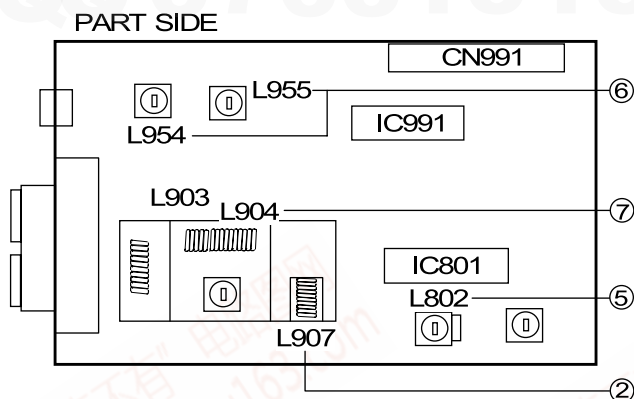


ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G
P1	①	SLEEP	Ⓢ	RDS	RT	MP3	ALBUM	—	STEREO	RANDOM	DISC
P2	②	—	—	EON	AG	PBC	—	—	MONO	PRGM	①
P3	③	a	a	a	a	a	a	a	a	⏮	①
P4	④	h	h	h	h	h	h	h	h	1	① <
P5	⑤	j	j	j	j	j	j	j	j	AUTO	②
P6	⑥	k	k	k	k	k	k	k	k	VF	②
P7	⑦	b	b	b	b	b	b	b	b	⏭	② <
P8	⑧	f	f	f	f	f	f	f	f	kHz	③
P9	⑨	m	m	m	m	m	m	m	m	MHz	③
P10	⑩	g	g	g	g	g	g	g	g	Ⓟ	③ <
P11	⑪	c	c	c	c	c	c	c	c	Ⓢ	—
P12	⑫	e	e	e	e	e	e	e	e	—	—
P13	⑬	r	r	r	r	r	r	r	r	—	—
P14	⑭	p	p	p	p	p	p	p	p	—	—
P15	⑮	n	n	n	n	n	n	n	n	—	—
P16	⑯	d	d	d	d	d	d	d	d	—	—
P17	⑰	—	—	—	—	—	—	col	—	—	—
P18	⑱	—	—	—	—	—	—	Dp	—	—	—
P19	⑲	—	—	—	—	—	—	—	—	—	—
P20	⑳	—	—	—	—	—	—	—	—	—	—

ELECTRICAL ADJUSTMENT -1/5

TUNER ADJUSTMENT



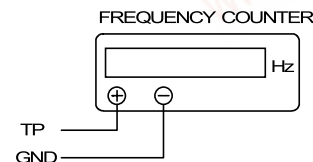
1. Clock Check

Requirements

Measuring equipment: Frequency counter

Test point: TP1 (CLOCK), GND

- 1) Adjust the reception frequency of the main unit to 1710KHz.
- 2) Check that the test point frequency is 2160 ± 0.045 KHz.



2. VT Adjustment (FM)

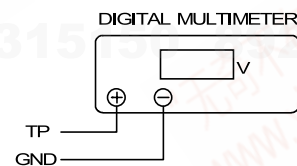
Requirement

Measuring equipment: Digital multi-meter

Test point: TP4 (R962), GND

Adjustment point: L907

- 1) Adjust the reception frequency of the main unit to 108.0MHz.
- 2) Adjust L907 until the test point voltage (VT) is $7.0V \pm 1V$.
- 3) Adjust the reception frequency of the main unit to 87.5MHz.
- 4) Check that the test point (VT) voltage is about 1.5V.



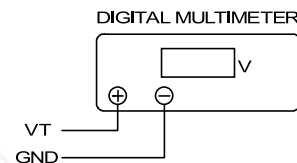
3. VT Check (MW)

Requirement

Measuring equipment: Digital multi-meter

Test point: TP4 (R962), GND

- 1) Adjust the reception frequency of the main unit to 530KHz.
- 2) Check that the test point (VT) voltage is about 0.5V.
- 3) Adjust the reception frequency of the main unit to 1710KHz.
- 4) Check that the test point (VT) voltage is below 9.0V.



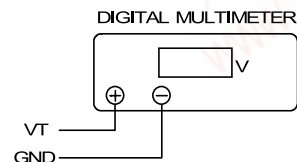
4. DC Balance Check

Requirement

Measuring equipment: Digital multi-meter

Test point: TP2, 3

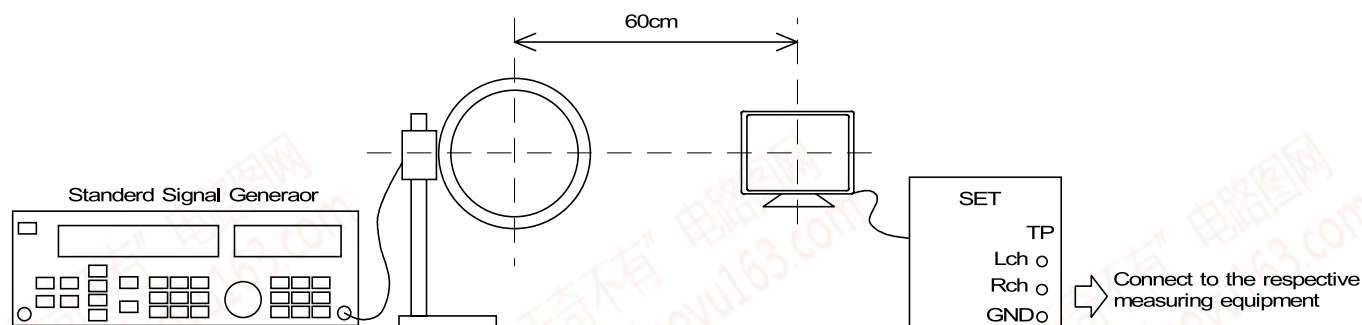
- 1) Adjust the reception frequency of the main unit to 98.0MHz.
- 2) Check that the test point voltage difference between TP2 and TP3 is $0mV \pm 500mV$.



ELECTRICAL ADJUSTMENT -2/5

< MW ADJUSTMENT >

For FM adjustment, do wiring and connection as in the following.



5. MW IF Adjustment

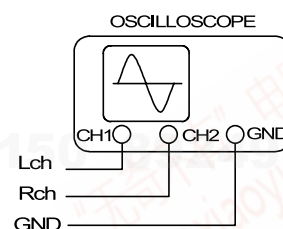
Requirement

Measuring equipment: Oscilloscope or Millivoltmeter

Test point: TP8(Lch), TP9(Rch), GND

Adjustment point: L802

- 1) Adjust the setting of Standard Signal Generator (hereinafter S.S.G.) to 999KHz of 30% variation.
- 2) Adjust the receiving frequency of the main unit at 1000KHz.
- 3) While looking at the waveform on the oscilloscope, reduce the output level all the way (till a certain degree of is monitored through the oscilloscope).
- 4) Adjust L802 until the waveform of the oscilloscope reaches the maximum.



6. MW Tracking Adjustment

Requirement

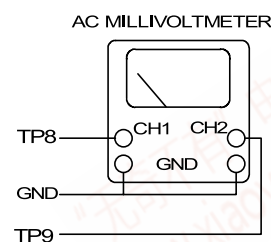
Measuring equipment: Millivoltmeter

Test point: TP8(Lch), TP9(Rch), GND

Adjustment point: L954, L955

- 1) Adjust the S.S.G. setting to 1000KHz of 30% variation and reduce the output level all the way (till a certain degree of is monitored through the oscilloscope).
- 2) Adjust the reception frequency of the main unit to 1000KHz.
- 3) Adjust L954 until the value of the millivoltmeter reaches the maximum.
- 4) Adjust the S.S.G. setting to 600KHz of 30% variation and reduce the output level all the way (till a certain degree of is monitored through the oscilloscope).
- 5) Adjust the reception frequency of the main unit to 600KHz.
- 6) Adjust L955 until the value of the milivoltmeter reaches the maximum.

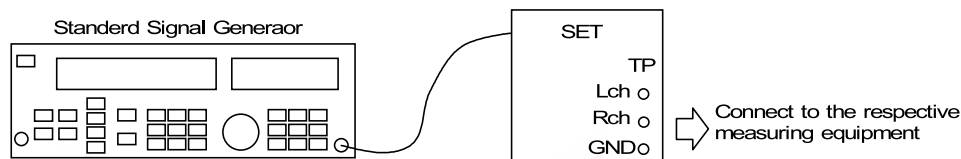
Repeat the adjustment 2 or 3 times from step 1 to 6 above.



ELECTRICAL ADJUSTMENT -3/5

<FM ADJUSTMENT>

For FM adjustment, do wiring and connection as in the following.



7. FM Tracking Adjustment

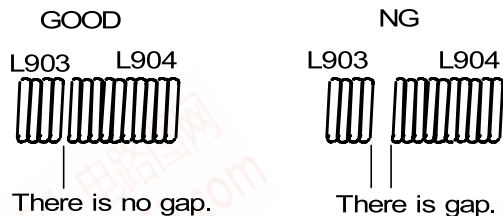
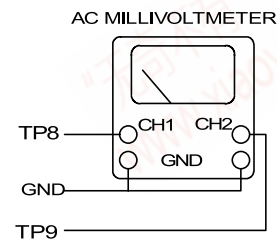
Requirement

Measuring equipment: millivoltmeter

Test point: TP8(Lch), TP9(Rch), GND

Adjustment point: L904

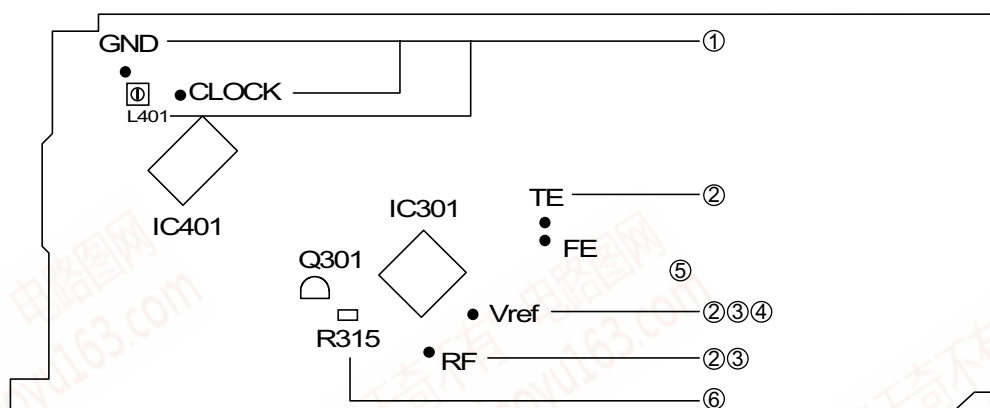
- 1) Adjust the S.S.G. setting to 87.5KHz of 30% variation and reduce the output level all the way (till a certain degree of is monitored through the oscilloscope).
- 2) Adjust L904 until the value of the milivoltmeter reaches the maximum.



ELECTRICAL ADJUSTMENT -4/5

CLOCK ADJUSTMENT AND CD CHECK

MAIN PWB PATTERN SIDE



1. Clock Adjustment

Requirements

Test point: CLOCK, GND

Adjustment point: L401

- 1) While pressing and holding down the POWER button and the TUNER / BAND button, insert the AC plug to outlet.
- 2) Adjust L401 so that the oscilloscope indicates the frequency within 347.661Hz–348.357Hz.

CD CHECK

Perform the adjustments after the main unit enters the test mode.

Place the CD mechanism on level ground.

Equipment and tools required

Measuring equipment

Digital multi-meter

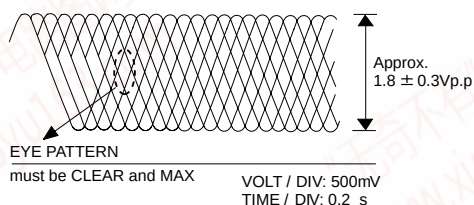
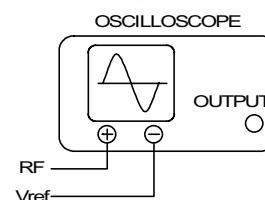
Jitter meter (KIKUSUI 6235)

Test disc: TCD-782

ATD-001

2. RF Waveform Check

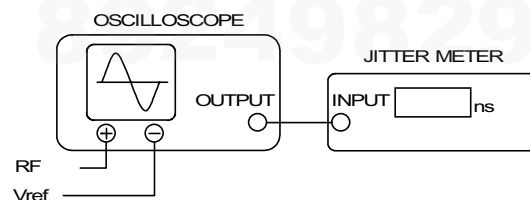
- 1) Connect oscilloscope to the test point RF and Vref.
- 2) Play back the 2 nd track of TCD-782.
- 3) Check that the RF waveform has the maximum amplitude and the center of the wedge waveform has the clear blank.



ELECTRICAL ADJUSTMENT -5/5

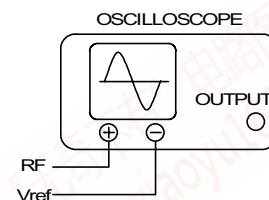
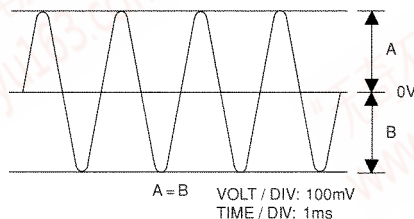
3. Jitter Check

- 1) While oscilloscope is kept connected in the same test point as in step2. RF WAVEFORM CHECK, connect the output terminal of an oscilloscope to the input terminal of the jitter meter.
- 2) Set the VOLT range selector of oscilloscope to 500mV range or below.
- 3) Play back 2 nd track of TCD-782.
- 4) Check that jitter meter indicates 28.0ns or less.



4. Tracking Balance Check

- 1) Connect the TE and Vref to the oscilloscope.
- 2) Playback the second track of TCD-782 and press the PAUSE button.
- 3) Check that the traverse waveforms of oscilloscope are up and down symmetrical.



5. Play Ability Check

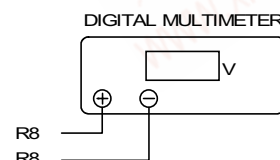
- 1) Play back the 3 rd , 8 th and 13 th track of ATD-001. Check that the noise does not occur sound skipping does not occur.

6. Laser Current Check

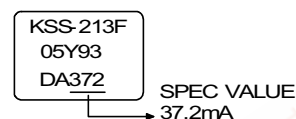
*Do not perform this measurement unless the laser is suspected to be defective.

- 1) Connect digital multi-meter across the resistor R315 (3.3ohm).
- 2) Play back the TCD-782 and check the DC voltage value on the digital multi-meter.
- 3) Calculate the laser current (I_{op}) by dividing the DC voltage across R315 by the resistor value ($R_{315}= 3.3ohm$).

Check that the laser current (I_{op}) is SPEC value $\pm 10\%$.



EXAMPLE



CD TEST MODE -1/1

1. How to Start the CD Test Mode

While pressing the CD OPEN/PAUSE button, insert the AC plug to the power outlet.
When the test mode is started, the message [CD TEST] is displayed.

2. How to Exit the CD Test Mode

Press the POWER button, push other FUNCTION button or disconnect the AC plug.

3. Function Descriptions and Application of the CD Test Mode

No	Mode	Operation	Display	Function	Checking item
1	Start mode		All indicators light	All FL indicators light	- FL check - Microprocessor check
2	Search mode	STOP button	READING	- LD illuminates all the time - Focus search continuous operations *1,*2 - Spindle motor continuous kick	- APC circuit check - Laser current measurement - Focus search waveform check - Focus error waveform check (DRF in the search mode is ignored)
3	Play mode	PLAY/PAUSE button	Normal	- Normal playback - If TOC cannot be read, focus search is continued - The CLV error is ignored.	- Each servo circuit is checked - DRF check - RF waveform check
4	Traverse mode	PLAY/PAUSE button	Normal	- Tracking servo OFF/ON - Each time PAUSE button is pressed, the tracking servo repeats turning OFF/ON	Tracking balance check
5	Sled mode	FF button	CD TEST	- Pickup moves to the inner circumference *3 - At the same time, lens kicks to the inner circumference	- Sled circuit check - Tracking circuit check - Mechanism operation check - Pickup check
		RWD button	CD TEST	- Pickup moves to the outer circumference *3 - At the same time, lens kicks to the outer circumference	
6	Spindle mode	SET button	All indicators light	The spindle motor rotates forward (rough speed) by pressing the button and rotates backward by pressing one more time and stops by pressing again	- Spindle circuit - Spindle motor

*1: The driver IC heats up and the protection circuit starts working when the focus search is continued for 10 minutes or longer.
There can be a case that operations can not be performed correctly.
In such a case, turn off the main power. After cooling down the machine, restart the machine.

*2: After the focus search is executed three times, the gain is changed to the CD-RW gain from the fourth time.

*3: Be careful not to damage the gear because the sled motor rotates while the FF or RWD button is being pressed even if the pick-up is located in the innermost track or the outermost track.

CD MECHANISM TEST MODE -1/1

1. How to Start Up the CD Mechanism Test Mode

- 1) While pressing the CD PLAY/PAUSE button, connect the AC power plug to wall outlet.
After the message "CD TEST" appears on the display, all display tubes light and the mechanism enters the CD Test Mode.
Then press the PRESET button. The display changes the message to "M/TEST" and the mechanism enters the CD Mechanism Test Mode.
Whenever you press the PRESET button, the mechanism toggles between the CD Test Mode and the CD Mechanism Test Mode.

2. CD Mechanism Test Mode

You can check operations of the various blocks of the CD mechanism as follows.

NO.	MODE	Operating method	Display(during operation)	Operation
1	Clamper mode	CD1 OPEN/CLOSE	[_ELV_UP_] [_ELV_DWN]	Clamper modes up (un-chucking) Clamper modes down (chucking)
2	Drawer mode	CD2 OPEN/CLOSE	[_DRW_OPN] [_DRW_CLS]	Opens the Drawer (EJECT) Closes the Drawer (LOADING)
3	Carriage mode	CD3 OPEN/CLOSE	[CR_EXTRA] [CR_HOME_]	Upper Carriage moves to the deep end. Upper Carriage moves to front end.
4	Disc change + mode	CD1 PLAY/PAUSE	[CHANGE_+]	Disc change is activates in the ascending order.
5	Disc change - mode	CD2 PLAY/PAUSE	[CHANGE_-]	Disc change is activates in the descending order.
6	Initial mode *1	CD3 PLAY/PAUSE	[_INITIAL]	Activates the Initial operation.

- *1. You can operate the CD Mechanism Test Mode regardless of the status of mechanism and switches. Therefore, be sure to exit the Test Mode after terminating the Initial Mode.

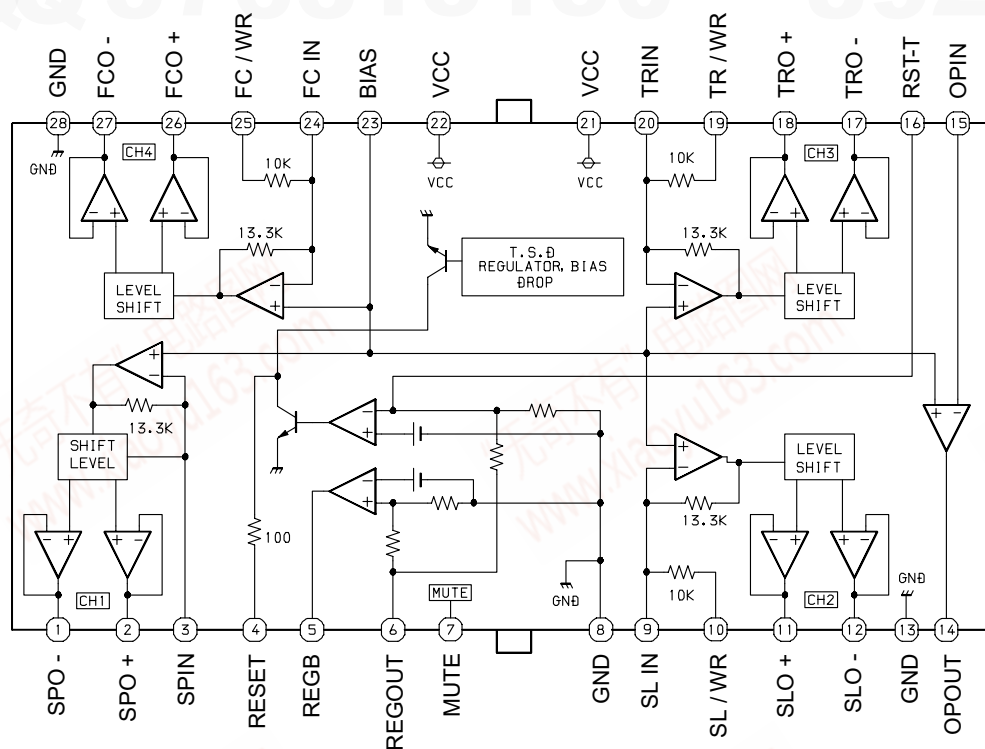
3. Detector Switches

You can check status of the various switches on the display as follows.

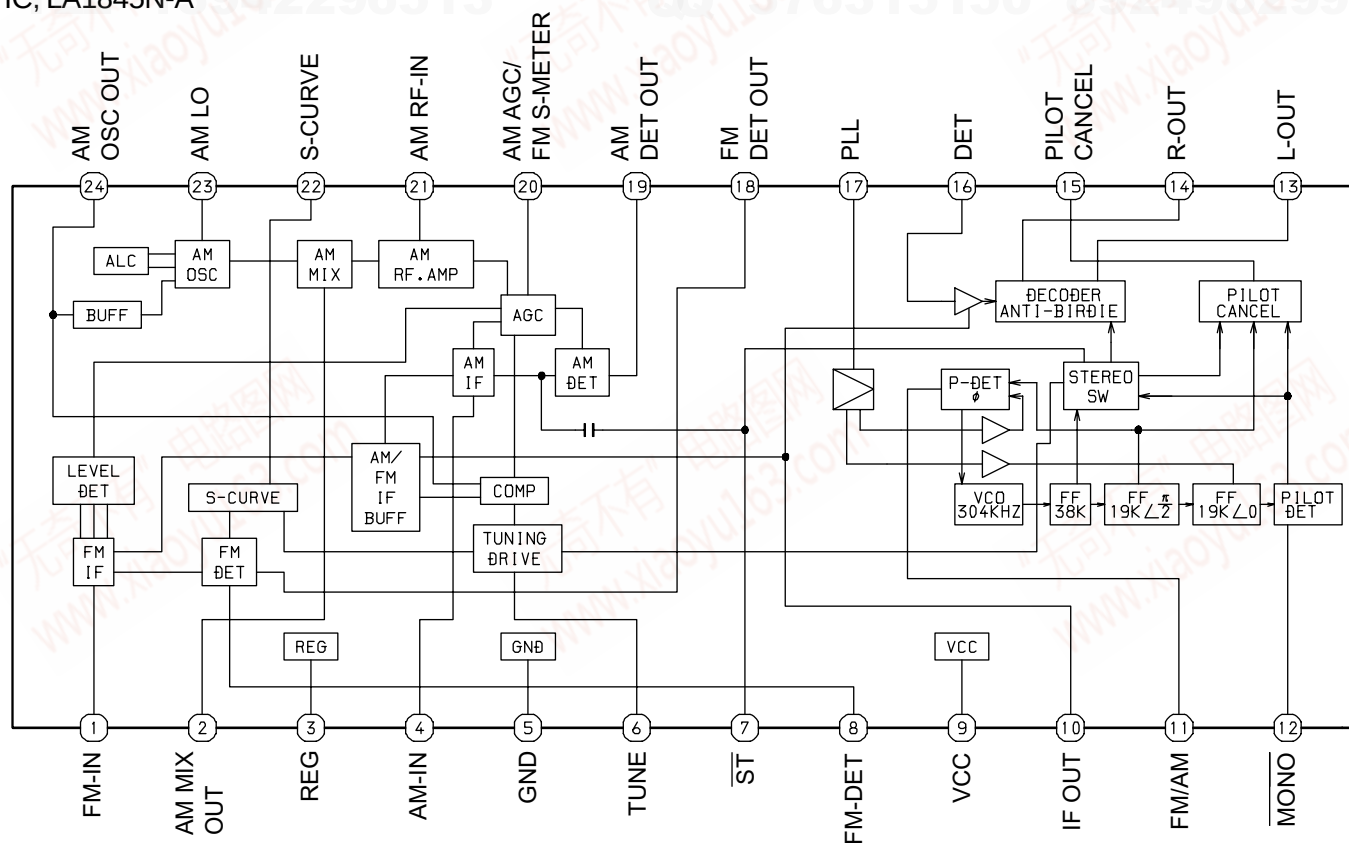
Name	Ref.No	Status	Display	MODE
EXTRA SW	SW2	ON when the upper Carriage is located in the deep end.	Calendar 2 light on.	Carriage mode
HOME SW	SW3	ON when the upper Carriage is located in the front end.	Calendar 3 light on.	Carriage mode
DISC2 SW	SW4	ON when the DISC2 or DISC3 is being chucked.	Calendar 4 light on.	Disc change mode
DISC1 SW	SW5	ON when the DISC1 or DISC3 is being chucked.	Calendar 5 light on.	Disc change mode
OPEN/CLOSE SW	SW6	OFF when the Drawer is being Open/Closed.	Calendar 6 light on.	Drawer mode
FORWORD SW	SW7	ON when the Clamper has completely moved down. OFF when the Drawer is opened.	Calendar 7 light on. Calendar 7 light off.	Clamper mode Drawer mode
REVERSE SW	SW8	ON when the Clamper has completely moved down. OFF when the Drawer is opened.	Calendar 8 light on. Calendar 8 light off.	Clamper mode Drawer mode

IC BLOCK DIAGRAM -1/2

IC, BA5826FP

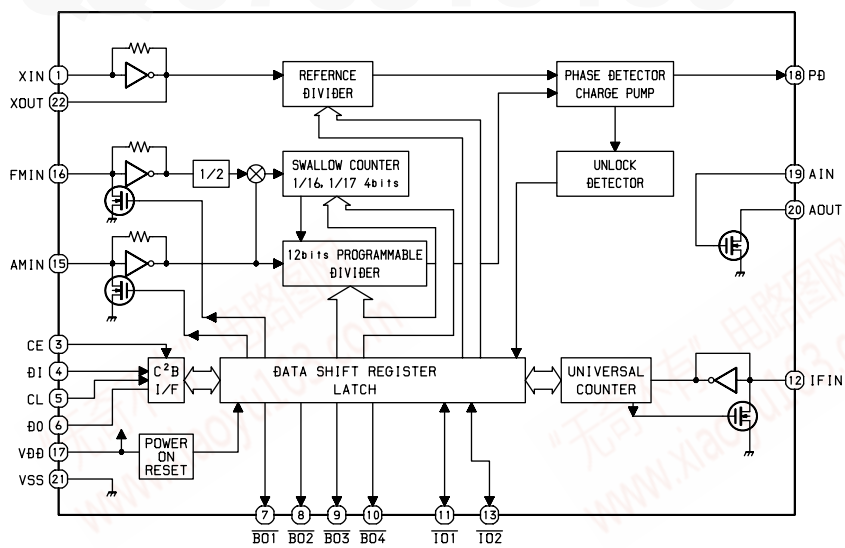


IC, LA1845N-A

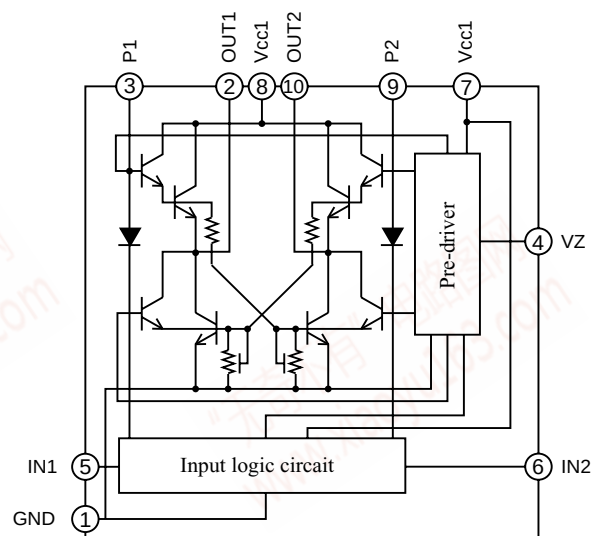


IC BLOCK DIAGRAM -2/2

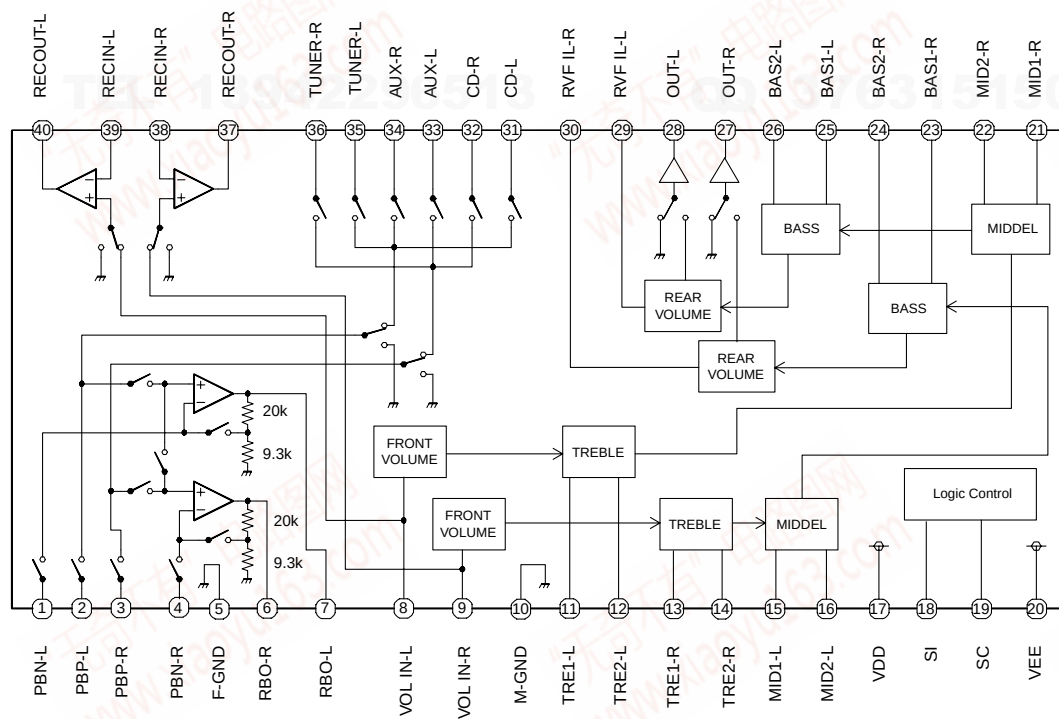
IC, LC72131D-N



IC, LB1645N



IC, BD3882FV



IC DESCRIPTION -1/2 (IC, LC78646E) -1/2

Pin No.	Pin Name	I/O	Description
1	SLCO	O	Slice level control output.
2	SLCIST	I	SLCO output current adjustment resistor connection pin.
3	EFMIN	I	RF signal input pin.
4	RF	O	RF monitor pin.
5	RFVDD	–	RF power supply pin.
6	RFVSS	–	RF ground pin. (Connected to 0V)
7	FIN1	I	A+C signal input pin.
8	FIN2	I	B+D signal input pin.
9	TIN1	I	E signal input pin.
10	TIN2	I	F signal input pin.
11	VREF	O	VREF voltage output pin.
12	REF1	I	Reference voltage setting pin.
13	FE	O	FE signal monitor pin.
14	TEC	O	TE signal low pass filter capacitor connection pin.
15	TE	O	TE signal monitor pin. (Not used)
16	RFMON	O	RF internal signal monitor pin. (Not used)
17	JITTC	–	Jitter detection capacitor connection pin.
18	ADAVDD	–	Servo A/D, D/A supply pin.
19	ADAVSS	–	Servo A/D, D/A ground pin. (Connected to 0V)
20	TDO	O	Tracking control output pin. D/A output.
21	FDO	O	Focus control output pin. D/A output.
22	SPDO	O	Spindle control output pin. D/A output.
23	SLDO	O	Sled control output pin. D/A output.
24	GPDAC	O	Servo D/A general purpose output pin. (Not used)
25	CONT4-DRVMUTE	I/O	General purpose input/output pin 4. (Used as a CD driver mute pin)
26	CONT5	I/O	General purpose input/output pin 5. (Not used)
27	SBCK/CONT6-SWIL	I/O	Sub-code read clock input pin / General purpose input/output pin 6. (Used as a CD pickup inside limit switch pin)
28	SBCK/FG	I	Sub-code read clock input pin / FG signal input pin/external emphasis setting pin. Set to command pin function. (Connected to 0V)
29	DEFECT	O	Defect pin. (Not used)
30	V/P	O	Rough servo/phase control automatic switching monitor output pin. "H" for rough servo and "L" for phase servo. (Not used)
31	FSEQ	O	Synchronization signal detection output pin. Outputs a high level when the synchronization signal detected from the EFM signal and the internally generated synchronization signal agree. (Not used)
32 ~ 36	MONI1 ~ MONI5	O	Internal signal monitor pin 1 ~ 5. (Not used)
37	VSS	–	Digital ground pin. (Connected to 0V)
38	VDD	–	Digital power supply pin.
39	DOUT	O	Digital OUT output pin.
40	TEST	I	Test input pin. (Connected to 0V)

IC DESCRIPTION -1/2 (IC, LC78646E) -2/2

Pin No.	Pin Name	I/O	Description
41	LVDD	–	Left channel power supply pin.
42	LCHO	O	Left channel output pin.
43	LVSS	–	Left channel ground pin. (Connected to 0V)
44	RVSS	–	Right channel ground pin. (Connected to 0V)
45	RCHO	O	Right channel output pin.
46	RVDD	–	Right channel power supply pin.
47	XVDD	–	Crystal oscillator power supply pin.
48	XOUT	O	Connections for a 16.9344MHz crystal oscillator pin.
49	XIN	I	
50	FSX/16MIN	I/O	7.35kHz synchronization signal output pin / DF, DAC external clock input pin. (Not used)
51	XVSS	–	Crystal oscillator ground pin. (Connected to 0V)
52	C2F	O	C2 flag output pin. (Not used)
53	EFLG	O	C1, C2 error correction monitor pin. (Not used)
54	16MOUT	O	16.9344MHz output pin. (Not used)
55	ASLRCK	I	Left/Right clock input pin during anti-shock mode. (Connected to 0V)
56	ASDACK	I	Bit clock input pin during anti-shock mode. (Connected to 0V)
57	ASDFIN	I	Left/Right channel data input pin during anti-shock mode. (Connected to 0V)
58	LRSY	O	Left/Right clock output pin. (Not used)
59	DATACK	O	Bit clock output pin. (Not used)
60	DATA	O	Left/Right channel data output pin. (Not used)
61	CE	I	Chip enable signal input pin.
62	CL	I	Data transfer clock input pin.
63	DI	I	Data input pin.
64	DO	O	Data output pin. (Nch open drain output)
65	WRQ	O	Interruption signal output pin.
66	RES	I	Reset input pin. This pin must be set low briefly after power is first applied.
67	DRF	O	Focus ON detect pin.
68	VDD5	–	Microprocessor interface power supply pin.
69	VSS	–	Digital ground pin. (Connected to 0V)
70 ~ 72	CONT3 ~ CONT1	I/O	General purpose input/output pin 3 ~ 1.
73	PDO1	O	Phase comparison output pin 1 to control built-in VCO.
74	PDO2	O	Phase comparison output pin 2 to control built-in VCO.
75	VVSS	–	Built-in VCO ground pin. (Connected to 0V)
76	PCKIST	I	Resistor connection pin to set current for PDO1 and PDO2 outputs.
77	VVDD	–	Built-in VCO power supply pin.
78	FR	I	Resistor connection pin to set the frequency range of built-in VCO.
79	LDS	I	Laser power detection signal input pin.
80	LDD	O	Laser power control signal output pin.

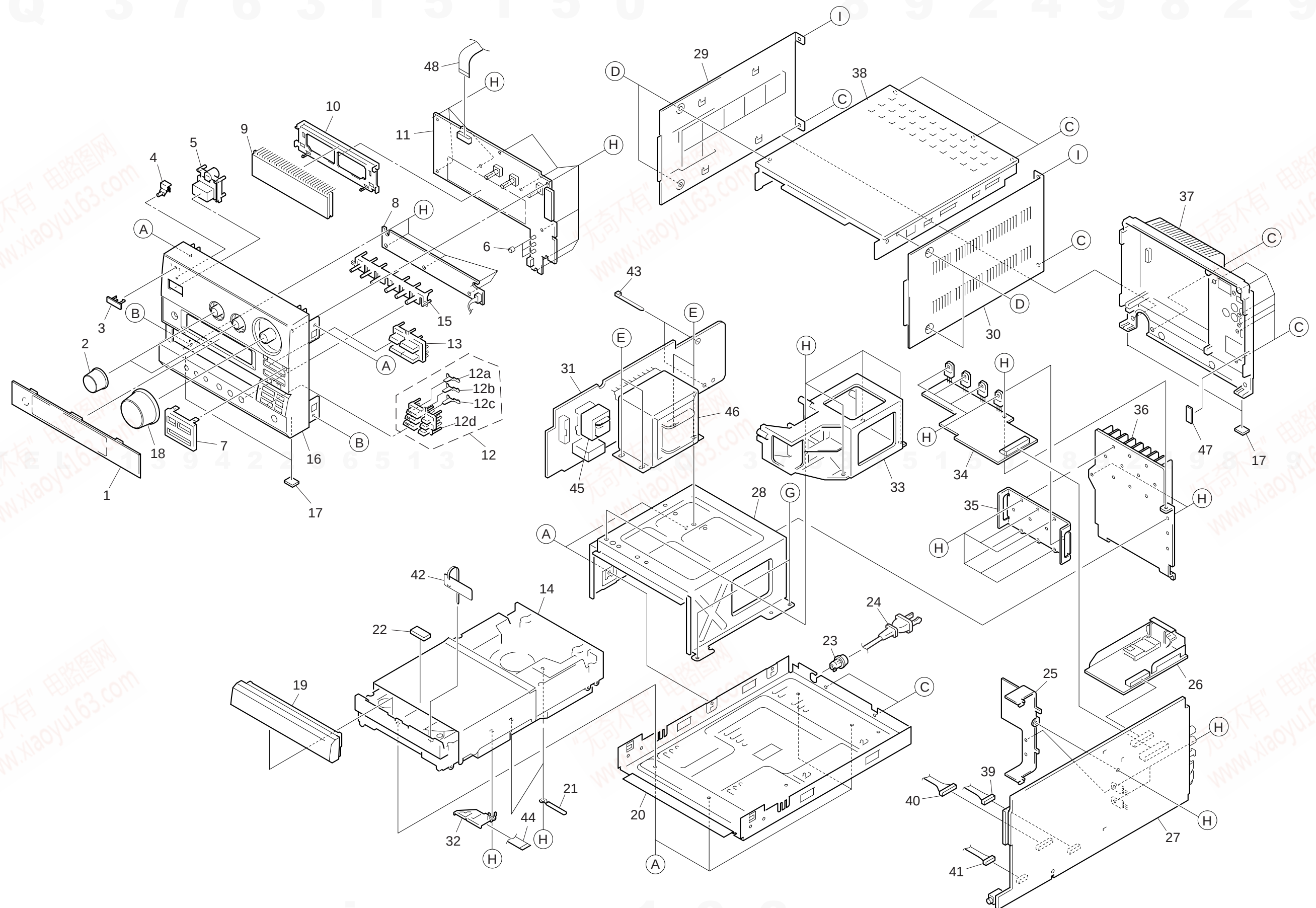
IC DESCRIPTION -2/2 (IC, LC876764A - 5Z85) -1/2

Pin No.	PinName	I/O	Description
1	O-CD DATA	O	CD IC control data output.
2	NC	–	Not use.
3	O-CD DRAWER OPEN	O	CD DRAWER open signal output.
4	O-CD DRAWER CLOSE	O	CD DRAWER close signal output.
5	O-PLL CE/O-CLK	O	PLL IC control chip enable output. Rewrite clock output.
6	O-PLL CLK/I-SEL	I/O	PLL IC control clock output. Rewrite select WRITE/_NO.
7	O-PLL DATA/O-DATA	O	PLL IC control data output. Rewrite data output.
8	I-RDS DATA	I	RDS data input.
9	NC	–	Not use.
10	O-CLKSFT	O	MICON clock shift output.
11	I-RESET	I	Reset input.
12	I-TUSIG	I	TUNER _SD detect input.
13	NC	I	Not use.
14	VSS1	–	GND.
15	CF1	I	9.43MHz oscillator circuit.
16	CF2	O	
17	VDD1	–	Power supply input.
18	I- _HOLD	I	Power failure detection input.
19	NC	I	Not use.
20	I- _STEREO	I	TUNER stereo detect input.
21	I- _TUNE/IFC	I	Tune IF count serial data input.
22	I-ENC VOL	I	Rotary encorder VOLUME input.
23	I-ENC TRE	I	Rotary encorder TREBLE input.
24	I-ENC BASS	I	Rotary encorder BASS input.
25,26	I-KEY2,I-KEY1	I	KEY input.
27	I-TMBASE	I	Reference clock input for watch.
28	I-RDS CLK	I	RDS clock input.
29	I-REM	I	System remote control signal input.
30-40	G11-G1	O	FL grid output G11-G1.
41-45	P20-P16	O	FL segment output P20-P16.
46	VDD3	–	Power supply input.
47-50	P15-P12	O	FL segment output P15-P12.
51	FIX0	–	GND.
52-62	P11-P1	O	FL segment output P11-P1.
63-65	NC	–	Not use.
66	I-TU SEL1	I	Tuner Relect Rignal input.
67	I-TU SEL2	I	Not use.
68	I-TU SEL3	I	Not use.
69	NC	–	Not use.
70	I-ECO OFF	I	Initial ECO OFF/_ON.
71	NC	–	Not use.
72	VDD4	–	Power supply input.
73	I-EX	I	CD MECHA CARRIAGE DET SW input.
74	I-HOME	I	CD MECHA CARRIAGE DET SW input.
75,76	I-D2,I-D1	I	CD DISC NUMBER DET SW input.
77	I-O/C	I	CD DRAWER O/C SW input.
78	I-FWD	I	CD DRAWER FORWARD SW input.
79	I-RVS	I	CD DRAWER REVERSE SW input.
80	O-CD1_LED	O	DISC1 LED output.
81	O-CD2_LED	O	DISC2 LED output.
82	O-CD3_LED	O	DISC3 LED output.

IC DESCRIPTION -2/2 (IC, LC876764A-5Z85) -2/2

Pin No.	PinName	I/O	Description
83,84	NC	–	Not use.
85	O-TU ON	O	TUNER ON/_OFF control output.
86	O-FUNC CLK	O	FUNCTION IC control clock output.
87	O-FUNC DATA	O	FUNCTION IC control data output.
88	O-POWER	O	System power supply ON/_OFF output.
89	VSS2	–	GND.
90	VDD2	–	Power supply input.
91	O-MUTE	O	Audio mute ON/_OFF control output.
92	O- <u>L MUTE</u>	O	Line mute _ON/OFF control output.
93	O- <u>STBY</u>	O	STAND BY LED _ON/OFF control output.
94	O-CA_OPEN	O	CD CARRIAGE open signal output.
95	O-CA_CLOSE	O	CD CARRIAGE close signal output.
96	I-CD DRF	I	Detect CD RF level input.
97	I-CD WRQ	I	Stand-by for CD sub-code Q input.
98	I-CD SUBQ	I	CD IC data input.
99	O-CD CE	O	CD IC control chip enable output.
100	O-CD CLK	O	CD IC control clock output.

MECHANICAL EXPLODED VIEW -1/1



MECHANICAL PARTS LIST -1/1

! = SAFETY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.

However, please note that not all components will be available as spare parts for after-sales service.

Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.

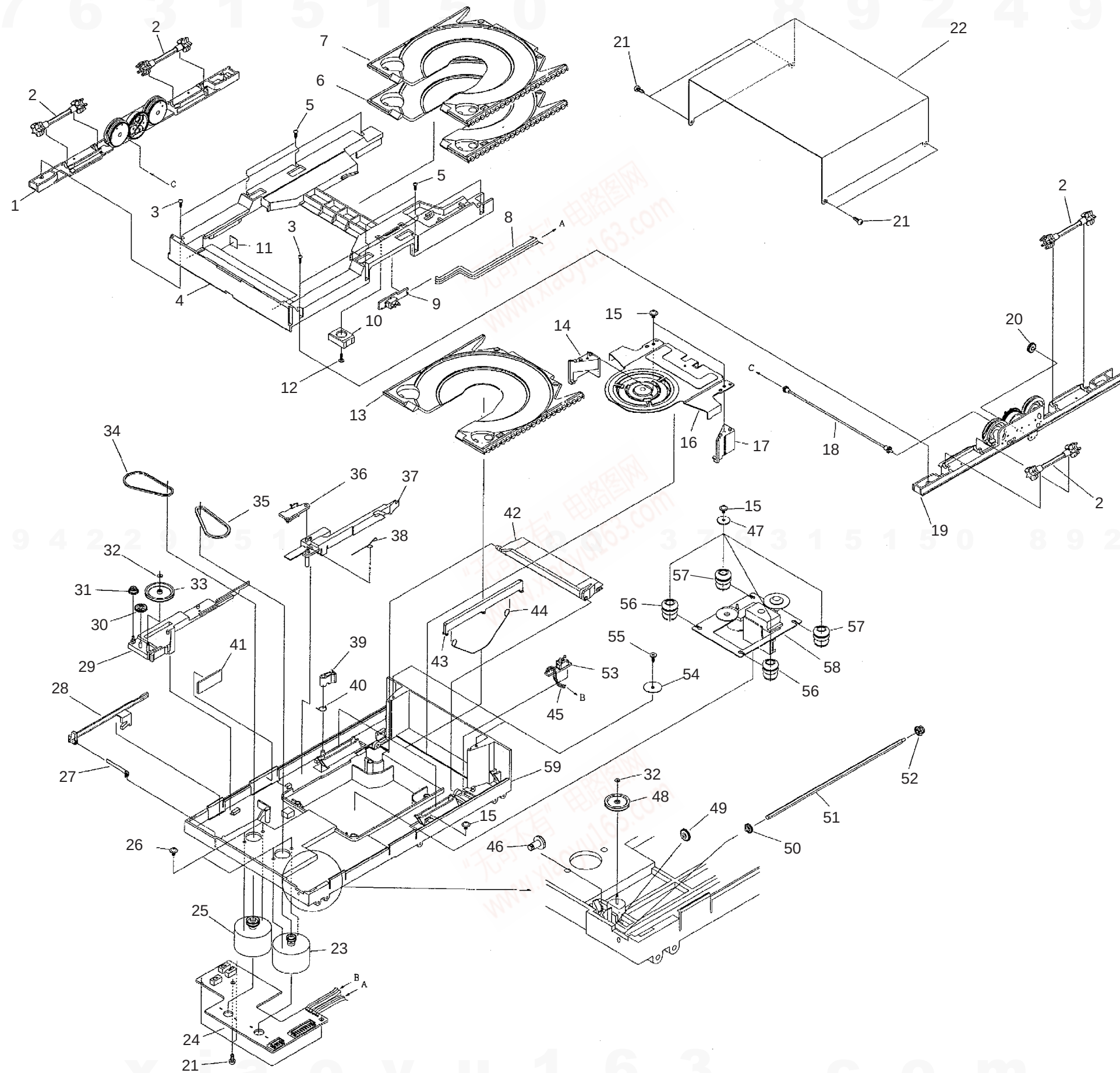
Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
		X MC1001	8C-CL3-009-010	WINDOW ASSY, DISP	a	b	.
		X MC1001	8C-CL3-042-010	WINDOW ASSY, DISP UC EC12	.	.	c
		X MC1001a	8C-CL3-010-010	WINDOW, DISP	a	b	.
		X MC1001a	8C-CL3-041-010	WINDOW, DISP UC EC12	.	.	c
		X MC1001b	8C-CL3-210-010	SH, ADH WINDOW	a	b	c
		X MC1002	8C-CL4-008-010	KNOB, RTRY BT	a	b	c
		O MC1003	87-B00-048-010	BADGE, AIWA 27.5 ABS SIL ND063	a	b	c
		O MC1004	8C-CL4-010-010	REFLECTOR, POWER	a	b	c
		O MC1005	8C-CL4-009-010	KEY, POWER	a	b	c
		X MC1006	8C-CL3-215-110	TUBE, COVER LED	a	b	c
		X MC1007	8C-CL3-021-010	PANEL, FR	a	b	c
		X MC1008	8C-CL3-613-110	PWB, KEY	a	b	c
		X MC1009	8C-CL3-602-010	FL, HNA-11SM26	a	b	c
		X MC1010	8C-CL3-203-010	GUIDE, FL	a	b	c
		X MC1011	8C-CL3-612-110	PWB, FL	a	b	c
		X MC1012	8C-CL3-040-010	KEY ASSY, EJECT	a	b	c
		O MC1012a	8C-CL3-022-010	REFLECTOR, EJECT 1	a	b	c
		O MC1012b	8C-CL3-023-010	REFLECTOR, EJECT 2	a	b	c
		O MC1012c	8C-CL3-024-010	REFLECTOR, EJECT 3	a	b	c
		O MC1012d	8C-CL3-012-010	KEY, EJECT	a	b	c
		O MC1013	8C-CL3-011-110	KEY, PLAY	a	b	c
		X MC1014	M8-CZK-590-070	CMCJ0129	a	b	c
		X MC1015	8C-CL3-013-010	KEY, FUNC	a	b	c
		O MC1016	8C-CL3-030-010	CABI, FR U	a	b	c
		X MC1017	8B-NF9-204-010	CUSH, 11-8.5-2	a	b	c
		X MC1018	8C-CL4-007-010	KNOB, RTRY VOL	a	b	c
		X MC1019	8C-CL3-008-010	PANEL, TRAY CD	a	b	c
		X MC1020	8C-CL3-201-010	CHAS, MAIN	a	b	c
		X MC1021	87-064-080-010	BINDER, WIRE	a	b	c
		X MC1022	8C-CL3-216-010	CUSH, 25-10-5	a	b	c
		O MC1023	87-A91-422-010	BUSHING, AC CORD(U)	a	b	c
	!	O MC1024	8Z-JBH-618-010	AC CORD, US BLK	a	b	c
		X MC1025	8C-CL3-209-110	HT-SINK, SUB B	a	b	c
		X MC1026	A8-CZA-396-030	CZA-3 UM	a	b	c
		X MC1027	8C-CL3-611-110	PWB, MAIN	a	b	c
		X MC1028	8C-CL3-202-010	CHAS, PT	a	b	c
		X MC1029	8C-CL3-044-010	PANEL, SIDE L U W/O HOLE	a	b	c
		X MC1030	8C-CL3-045-010	PANEL, SIDE R U W/O HOLE	a	b	c
		X MC1031	8C-CL3-620-110	PWB, PT 3M	a	b	c
		X MC1032	8C-CL3-212-010	HLDR, FFC	a	b	c
		X MC1033	8C-CL3-204-010	HLDR, PWB PT	a	b	c
		X MC1034	8C-CL3-614-110	PWB, AMP 4M	a	b	c
		X MC1035	8C-CL3-208-010	HT-SINK, SUB A	a	b	c
		X MC1036	8C-CL3-205-010	HT-SINK ASSY, MAIN	a	b	c
		X MC1036a	8C-CL3-207-010	HT-SINK, FIN	a	b	c
		X MC1036b	8C-CL3-206-010	HT-SINK, MAIN	a	b	c
		O MC1037	8C-CL3-003-010	CABI, REAR U	a	b	c
		X MC1038	8C-CL3-027-010	PANEL, TOP U	a	b	c
		O MC1039	8C-CL3-641-010	CONN ASSY, 6P V PH	a	b	c
		O MC1040	8C-CL3-643-010	CONN ASSY, 8P V EH	a	b	c
		O MC1041	8C-CL3-642-010	CONN ASSY, 4P V EH	a	b	c
		O MC1042	8C-CL3-038-010	TAG ASSY, TRAY	a	b	c
		X MC1042	8C-CL3-014-010	SH, FL	a	b	c
		X MC1042a	8C-CL3-036-010	TAG, TRAY A	a	b	c
		X MC1042b	8C-CL3-037-010	TAG, TRAY B	a	b	c
		O MC1043	87-069-033-010	CABLE, TIE	a	b	c
		O MC1044	8C-CL3-650-010	FF-CABLE, 16P 1.0 310MM CD	a	b	c
	!	X MC1045	8B-NF9-661-010	PT, SUB BNF U (TAM)	a	b	c
	!	O MC1046	8C-CL3-630-010	PT, U/UC CCL-3	a	b	c
		O MC1047	8C-CL3-217-010	SH, 20-11-1.5 W/ADH	a	b	c
		X MC1048	88-916-201-110	FF-CABLE, 16P 1.25	a	b	c
		O MC1A	87-721-096-410	QT2+3-10 W/O SLOT	a	b	c
		O MC1B	87-721-095-410	QT2+3-8 W/O SLOT	a	b	c
		O MC1C	87-067-761-010	BVT2+3-10 BLK	a	b	c
		X MC1D	87-067-641-010	UTT2+3-8 W/O SLOT BLK	a	b	c
		O MC1E	87-B10-318-010	BVIT3C+4-8 R W/O	a	b	c
		O MC1G	87-B10-315-010	BVIT3B+3-8 R W/O	a	b	c
		O MC1H	87-067-703-010	BVT2+3-10 W/O SLOT	a	b	c
		O MC1I	87-B10-071-010	BVT2+3-16 W/O SLOT BLK	a	b	c

COLOR NAME TABLE -1/1

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray
HM	Metallic Gray	NH	Champagne Gold	M	Wood Pattern

CD MECHANISM EXPLODED VIEW -1/1 (CMCJ0129)



CD MECHANISM PARTS LIST -1/1 (CMCJ0129)

! =  SAFETY PARTS

C = Components marked

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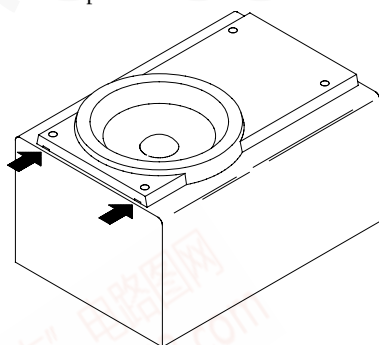
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UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL
					CMCJ0129
					00
		0	SC1001	S4-509-332-410 ASS'Y HOLDER L	a
		0	SC1002	S4-509-342-440 ASS'Y GEAR STAR	a
		0	SC1003	SG-SL2-0B2-006 SCREW	a
		0	SC1004	S4-526-432-780 DRAWER 2	a
		0	SC1005	SG-SL1-0B2-006 SCREW	a
		0	SC1006	S4-509-344-670 ASS'Y CRG A201	a
		0	SC1007	S4-509-344-660 ASS'Y CRG A101	a
		X	SC1008	S4-507-241-710 LEAD WIRE	a
		X	SC1009	S4-509-344-710 ASS'Y PWB C3	a
		X	SC1010	S4-521-941-270 SPACER SW	a
		X	SC1011	S4-506-341-360 CUSHION	a
		0	SC1012	SG-ST1-5A2-005 SCREW	a
		0	SC1013	S4-509-344-680 ASS'Y CRG A301	a
		0	SC1014	S4-521-931-880 ARM SLIDER L	a
		0	SC1015	87-761-073-410 L SCREW	a
		0	SC1016	S4-509-343-580 ASS'Y CLAMPER SO 2	a
		0	SC1017	S4-521-931-870 ARM SLIDER R	a
		0	SC1018	S4-509-342-430 ASS'Y GEAR DRIVE	a
		0	SC1019	S4-509-332-960 ASS'Y HOLDER R3B	a
		0	SC1020	S4-522-242-140 BEVEL GEAR 4	a
					CMCJ0129
					00
		0	SC1021	87-741-073-410 SCREW	a
		X	SC1022	S4-511-231-540 COVER 2	a
		0	SC1023	S4-509-344-410 ASS'Y MOTOR CRG C	a
		X	SC1024	S4-509-344-690 ASS'Y PWB A4	a
		0	SC1025	S4-509-344-420 ASS'Y MOTOR DRW C	a
		0	SC1026	SG-SP1-4A2-604 SCREW	a
		0	SC1027	S4-516-041-740 PLATE SPRING	a
		X	SC1028	S4-525-931-750 SLIDER 4	a
		0	SC1029	S4-509-332-400 ASS'Y SLIDER 2	a
		0	SC1030	S4-522-240-510 GEAR IDLER C	a
		0	SC1031	S4-522-241-280 GEAR IDLER A2	a
		0	SC1032	80-ZM6-216-010 WASHER, 1.5X4.5X0.25	a
		0	SC1033	S4-522-940-520 PULLEY A	a
		0	SC1034	S0-208-342-150 BELT	a
		0	SC1035	S0-208-342-140 BELT	a
		0	SC1036	S4-523-940-650 ARM STOPPER B	a
		0	SC1037	S4-525-921-850 SLIDER 1	a
		0	SC1038	S0-108-246-470 SPRING	a
		0	SC1039	S4-523-942-790 ARM STOPPER A2	a
		0	SC1040	S0-108-246-430 SPRING	a
					CMCJ0129
					00
		0	SC1041	S4-506-341-150 RUBBER CUSION	a
		0	SC1042	S4-525-932-890 LEVER 2	a
		0	SC1043	S4-525-930-250 LIFTER	a
		0	SC1044	S0-108-045-410 SPRING	a
		X	SC1045	S4-507-241-720 LEAD WIRE	a
		0	SC1046	S4-522-241-770 BEVEL GEAR 3	a
		0	SC1047	SG-WN3-1X1-200 WASHER	a
		0	SC1048	S4-522-240-580 PULLEY C	a
		0	SC1049	S4-522-241-760 GEAR IDLER 1	a
		0	SC1050	S4-522-240-210 GEAR SPLINE	a
		X	SC1051	S4-530-041-730 SHAFT	a
		0	SC1052	S4-522-240-590 BEVEL GEAR 1	a
		X	SC1053	S4-509-344-700 ASS'Y PWB B3	a
		0	SC1054	S0-330-044-390 WASHER	a
		0	SC1055	SP-BE1-701-400 BUSH B	a
		X	SC1056	S4-506-332-020 INSULATOR	a
		X	SC1057	S4-506-332-010 INSULATOR	a
		0	SC1058	M8-CZK-790-070 KSM-213VSCM	a
		0	SC1059	S4-509-342-560 ASS'Y CHASSIS	a

SPEAKER DISASSEMBLY INSTRUCTIONS -1/1

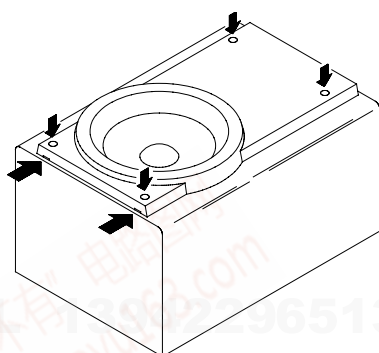
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



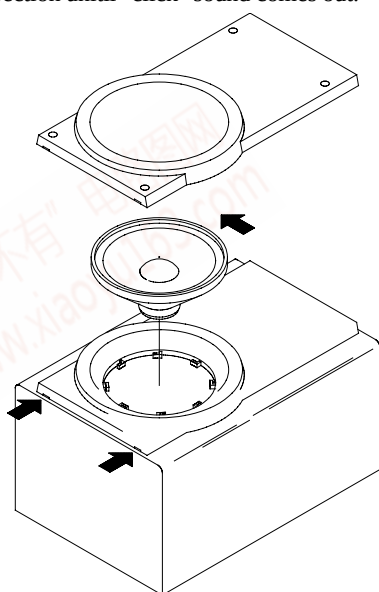
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hold where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

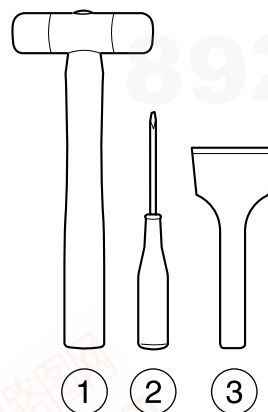


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counterclockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

- 1 Plastic head hammer
- 2 (-) flat head screwdriver
- 3 Cut chisel

How to Remove the PANEL, FR

1. Insert the (-) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (-) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

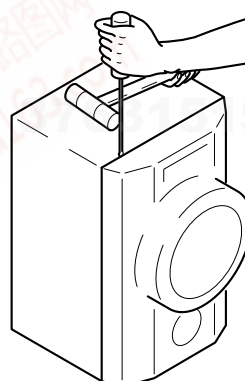


Fig-1

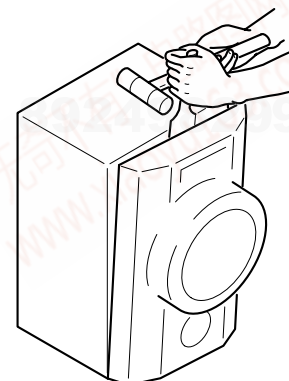


Fig-2

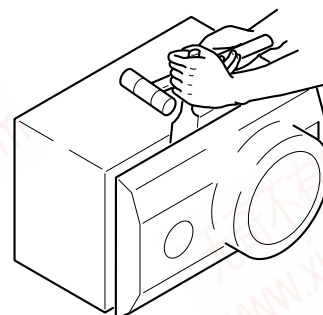


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST -1/1

! =  SAFETY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.

However, please note that not all components will be available as spare parts for after-sales service.

Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.

Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL	
					SX-SLEC10 YJBN	SX-SLEC12 YJMN
		O	SP1001	8A-CJ5-415-010	TERMINAL,	.
		O	SP1002	8B-CP5-610-010	CORD,SPKR	b
		X	SP1003	8B-CPX-001-010	TUBE, 40	b
		O	SP1004	8B-CPX-004-010	GRILLE, FRAME ASSY	b
		X	SP1005	8B-CPX-005-010	GRILLE, FRAME	b
		X	SP1006	8B-CPX-006-010	NET,	b
		X	SP1007	8B-CPX-009-010	CUSHION, FELT	b
		X	SP1008	8B-CPX-016-010	BADGE, AIWA 27.5	b
		O	SP1009	8B-CPZ-604-010	SPKR, TW 25	.
		O	SP1010	8C-CP2-007-010	TERMINAL,	a
		X	SP1011	8C-CP3-001-010	LBL, SPEC YJ	a
		X	SP1012	8C-CP3-002-010	CABI, B	a
		O	SP1013	8C-CP3-003-010	GRILLE, FRAME ASSY	a
		X	SP1014	8C-CP3-004-010	GRILLE, FRAME	a
		X	SP1015	8C-CP3-005-010	NET,	a
		X	SP1016	8C-CP3-006-010	BADGE, AIWA 27.5 B	a
		O	SP1017	8C-CP3-602-010	SPKR, W 100 25/2	a
		O	SP1018	8C-CP4-001-010	RING, W	.
		O	SP1019	8C-CP4-002-010	RING, TW	.
		X	SP1020	8C-CP4-007-010	LBL, SPEC LEC12	.
					SX-SLEC10 YJBN	SX-SLEC12 YJMN
		O	SP1021	8C-CP4-602-010	SPKR, W 120 25/2	.
		O	SP1022	8C-CP4-604-010	SPKR, T 25 25/2	.
		X	SP1023	8C-CP4-003-010	CABI, M	.
		X	SP1024	8C-CP4-851-010	CUSHION, ASSY-TTT	.

OTHERS PARTS LIST -1/1 (CX-SLEC10)

! = SAFETY PARTS
C = Components marked

All components used on this model at the production line are shown in this service manual.

However, please note that not all components will be available as spare parts for after-sales service.

Components marked S and O are designated as spare parts for service and will be stocked at the spare parts centers.

Components marked X and R are not designated as spare parts for after sales service, and will not be stocked at the spare parts centers.

UNIT-NAME	! C	REF-NO	PARTS-NO	PARTS-NAME	SUFFIX&MODEL		
					CX-SLEC10 USM	CX-SLEC10 UCSM	CX-SLEC12 UCSM
	X		84-711-909-010	LBL DATE CODE	a	b	c
	X		87-B40-282-010	LBL, BAR-CODE AU 35X8	a	b	c
	X		8C-CL3-015-110	LBL, SPEC U	a	.	.
	X		87-B40-096-010	BAG, PV 0.025-570-700 PL	a	b	c
	X		8C-CL3-851-010	CUSHION, FRONT M	a	b	c
	X		8C-CL3-852-010	CUSHION, REAR M	a	b	c
	X		93-324-066-010	SH, FOAMED-MAT 0.31-500-300	a	b	c
	X		87-B40-085-010	BAG, PV 0.04-200-350 PL	a	b	c
	X		8A-NF8-972-010	LBL, POP ENG	a	b	c
	X		8C-CL3-970-010	LBL, POP U	a	b	c
	X		87-B40-034-010	LBL, USA 1-800	a	b	c
	X		8C-CL3-031-110	LBL, SPEC UC	.	b	.
	X		8C-CL3-043-110	LBL, SPEC UC EC12	.	.	c

QQ 376315150

892498299

TEL 13942296513 QQ 376315150 892498299

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