

Service Manual

AUTOMOTIVE AFTERMARKET



WMA

MP3

((XM))
READYSIRIUS
READY

CQ-C7205U

WMA MP3 AAC CD Player/Receiver



Specifications*

General

Power Supply	DC 12V (11V - 16V), Test Voltage 14.4V Negative Ground
Tone Controls (Bass/Treble)	Bass: $\pm 12\text{dB}$ at 60Hz Treble: $\pm 12\text{dB}$ at 16kHz
Equalizer Center Frequency	60, 160, 400, 1k, 3k, 6k, 16k Hz
Variable Range of Equalizer	-12dB to 12dB (2dB step)
Current Consumption	Less than 2.2A (CD mode; 0.5W $\times$ 4-speaker)
Maximum Power Output	50W $\times$ 4(at 1kHz)
Speaker Impedance	4 - 8 Ω
Pre-amp Output Voltage	5V (CD mode; 1kHz, 0dB)
Subwoofer Output Voltage	5V (CD mode; 1kHz, 0dB)
Pre-amp Output Impedance	60 Ω
Subwoofer Output Impedance	60 Ω

FM Stereo Radio

Frequency Range	87.9MHz - 107.9MHz
Usable Sensitivity	10.2dBf. (0.9 μV , 75 Ω)
50dB Quieting Sensitivity	15.2dBf. (1.6 μV , 75 Ω)
Frequency Response	30Hz-15kHz ($\pm 3\text{dB}$)
Alternate Channel Selectivity	75dB
Stereo Separation	35dB (at 1kHz)
Image Response Ratio	75dB
IF Response Ratio	100dB
Signal to Noise Ratio	62dB

AM Radio

Frequency Range	530kHz - 1,710kHz
Usable Sensitivity	27dB/ μV (S/N 20dB)

CD Player

Sampling Frequency	8 Times Oversampling
DA Converter	4 DAC System
Pick-up Type	Astigma 3-Beam
Light Source	Semiconductor Laser
Wave Length	790 nm
Frequency Response	20 Hz-20kHz ($\pm 1\text{dB}$)
Signal to Noise Ratio	96dB
Total Harmonic Distortion	0.01% (1kHz)
Wow and Flutter	Below Measurable Limits
Channel Separation	75dB

Dimensions (W×H×D)** 7"×1-15/16"×6-1/8"
(178×50×155mm)

Weight** 3 lbs. 8oz (1.6 kg)

* Specifications and the design are subject to possible modification without notice due to improvements.

** Dimensions and Weight shown are approximate.

** Above specifications comply with EIA standards.

Panasonic®

© 2006 Matsushita Electric Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

CONTENTS

	Page		Page
1 ABOUT LEAD FREE SOLDER (PbF)	3	11 TERMINALS DESCRIPTION	12
2 FEATUERS	3	12 IC BLOCK DIAGRAM	16
3 REPLACEING THE FUSE	3	13 PACKING PARTS LIST	19
4 MAINTENANCE	3	14 REPLACEMENT PARTS LIST	20
5 NOTES	3	15 EXPLODED VIEW (Unit)	26
6 DIMENSIONS	3	16 CD PLAYER PARTS LIST	27
7 LASER PRODUCTS	3	17 EXPLODED VIEW (CD PLAYER)	29
8 WIRING CONNECTION	4	18 WIRING DIAGRAM	30
9 BLOCK DIAGRAM	5	19 SCHEMATIC DIAGRAM	37
10 DISASSEMBLY INSTRUCTIONS	9	20 SCHEMATIC DIAGRAM for printing with Letter size	43

1 ABOUT LEAD FREE SOLDER (PbF)

Distinction of PbF PCB:

PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution :

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a soldering iron with temperature control and adjust it to 700 ± 20°F (370 ± 10°C). In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C)
- This lead free solder will be used for the products after serial No. 1,000,001.

2 FEATUERS

- Hands Free Phone System. (The optional Bluetooth hands-free kit: CY-BT100U)
- Expansion Module (The optional Hub unit: CY-EM100U)
- The optional adapter allows you to connect the optional Panasonic DVD changer unit (CX-DH801U).
- The optional adapter allows you to connect the optional Panasonic CD changer unit (CX-DP880).
- The optional adapter allows you to connect the optional iPod® series.
- XM Satellite Radio. (The optional XM receiver: XMD-1000)
- Sirius Satellite Radio. (The optional Sirius Satellite receiver: SIR-PAN1)
- SQ7 (7-Band Sound Quality) .
- D.M(Direct Memory)
- Customize the Display (Customize Function)
- MP3/WMA/AAC Playback from CD-R/RW.

3 REPLACEING THE FUSE

Use fuses of the same specified rating 15 amps. Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit.

4 MAINTENANCE

Your products is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvent.

5 NOTES

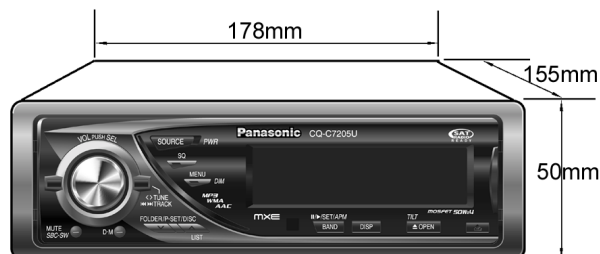
[RADIO BLOCK]

Do not align the AM/FM package block. When the package block is necessary, it will be supplied already aligned at the factory.

[CD DECK BLOCK]

This model has no servo alignment points because microcomputer controls the servo circuit

6 DIMENSIONS



7 LASER PRODUCTS

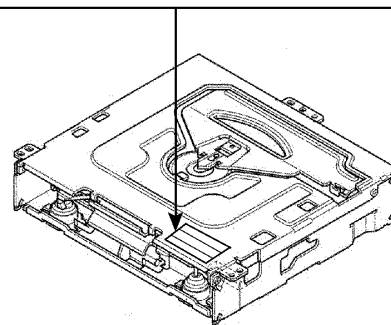
CAUTION:

This product utilizes a laser diode with the unit turned "on", laser radiation is emitted from the pickup lens.

Laser radiation from the pickup lens is safety level, but be sure the followings:

1. Do not disassemble the optical pickup unit, since radiation from exposed laser diode is dangerous.
2. Do not adjust the variable resistor on the pickup unit. It was already adjusted.
3. Do not look at the focus lens using optical instruments.
4. Recommend not to look at pickup lens for a long time.

DANGER! Visible and invisible laser radiation when open. Avoid direct exposure to beam.

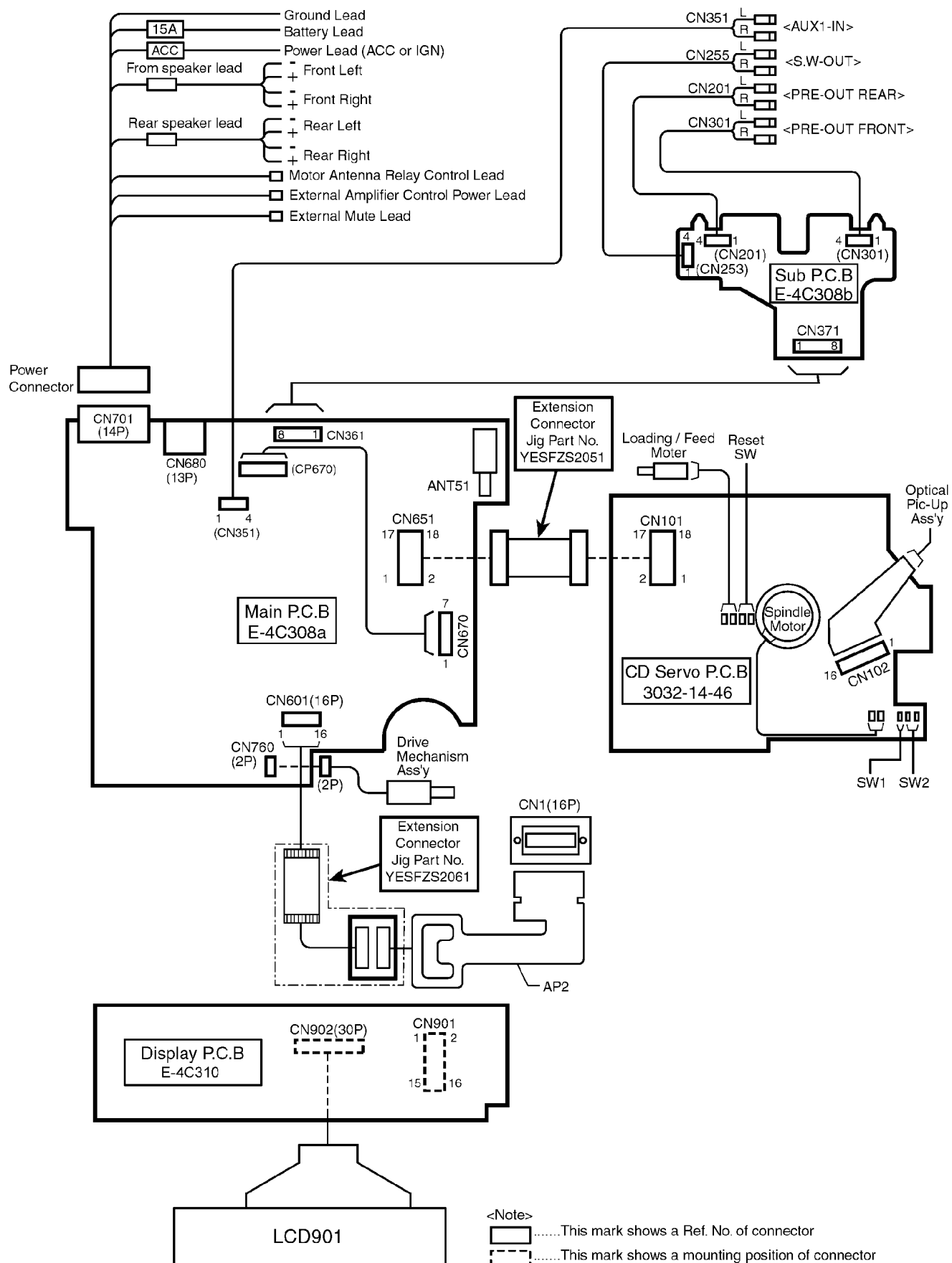


Deck Ass'y (Upper Side)

Caution

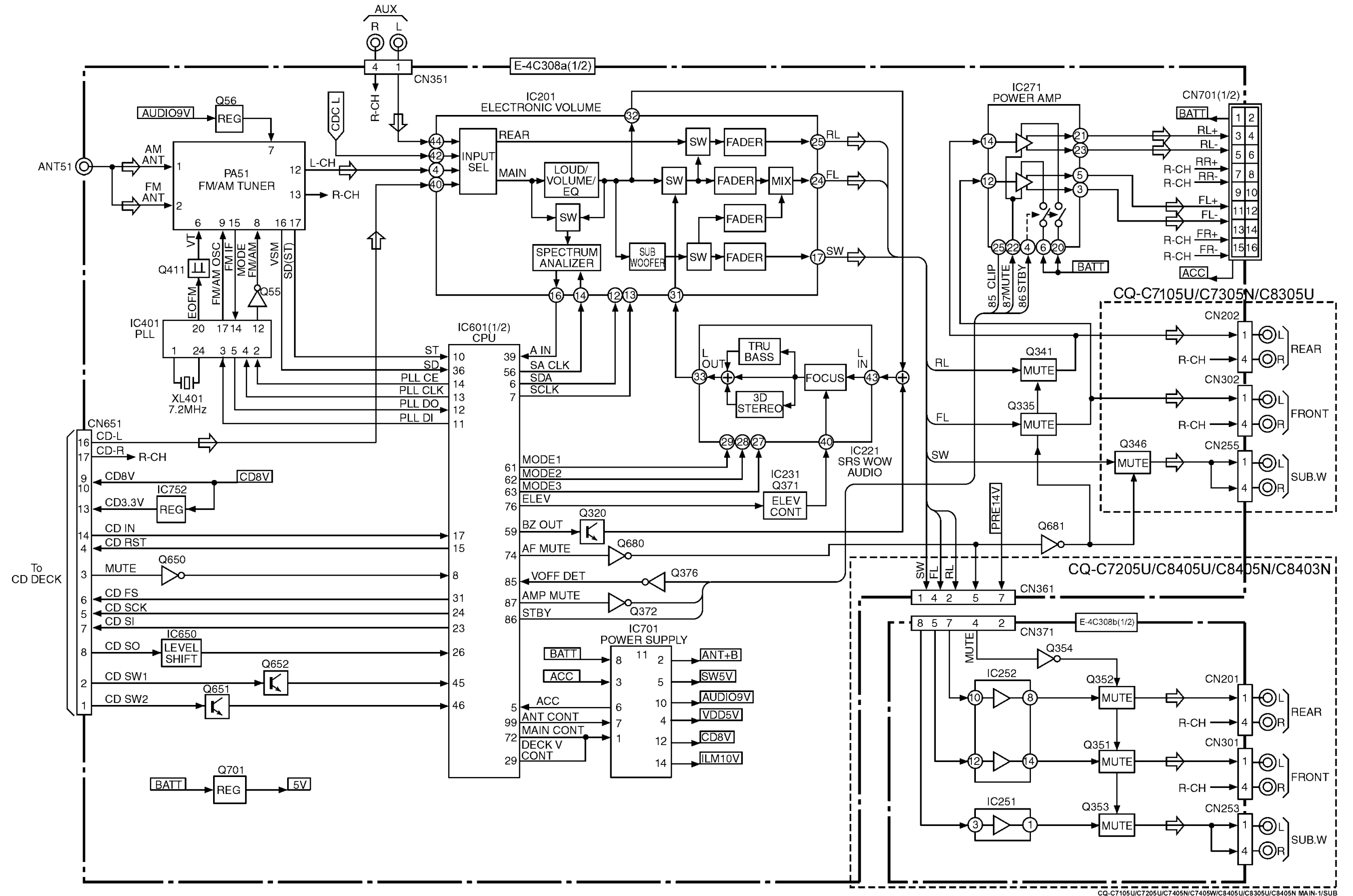
This Product utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

8 WIRING CONNECTION

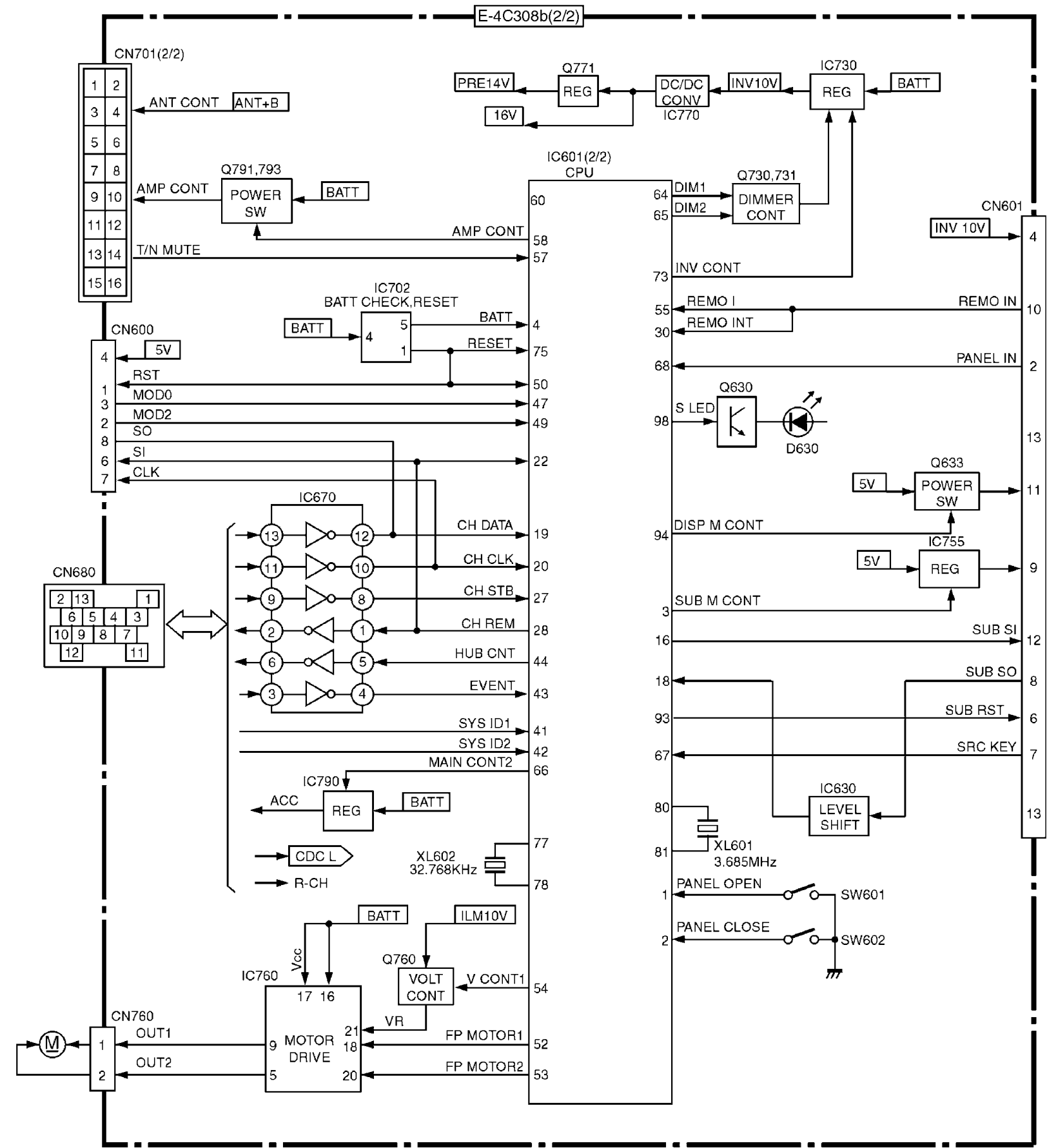


9 BLOCK DIAGRAM

9.1. Main-1 Block

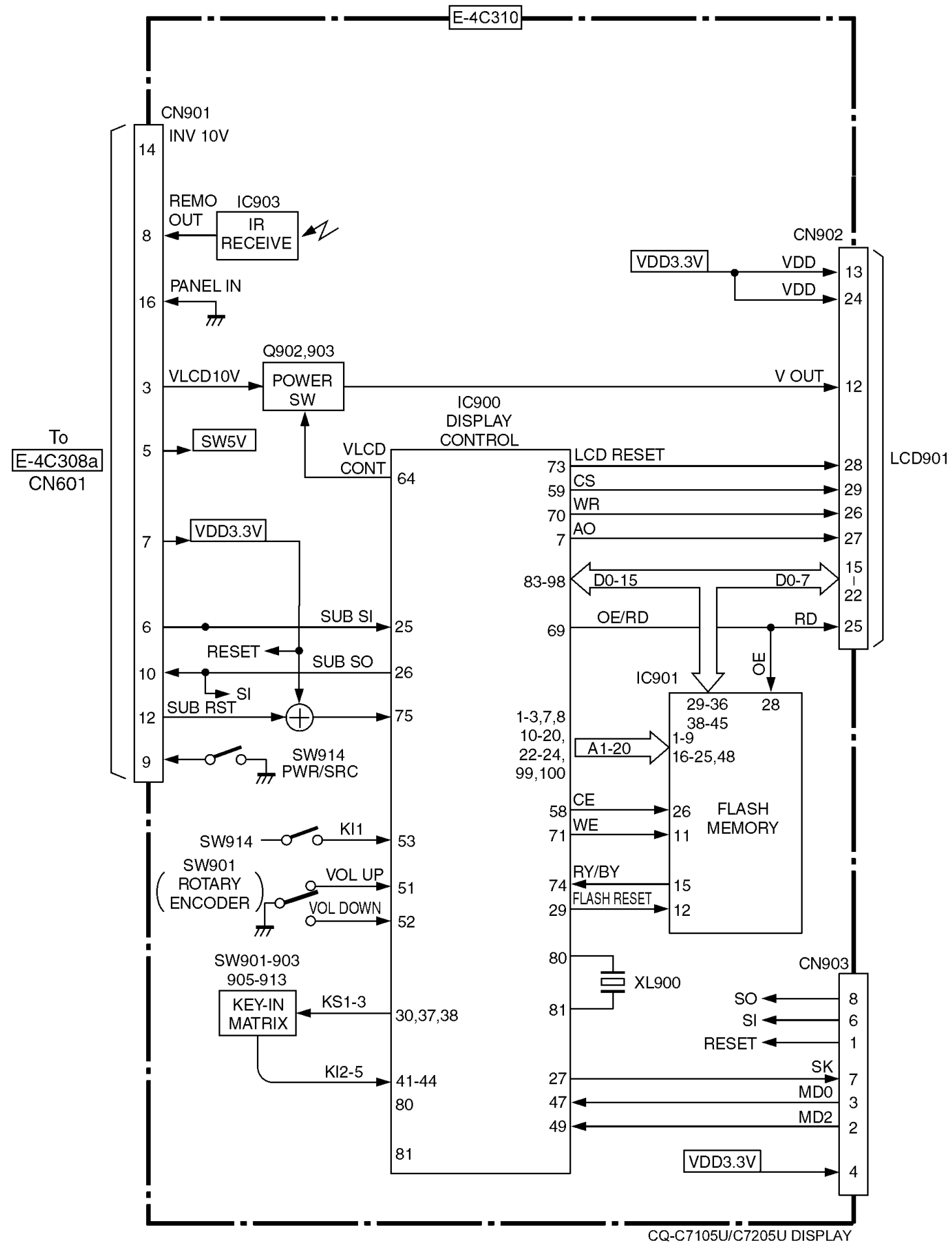


9.2. Main-2 Block

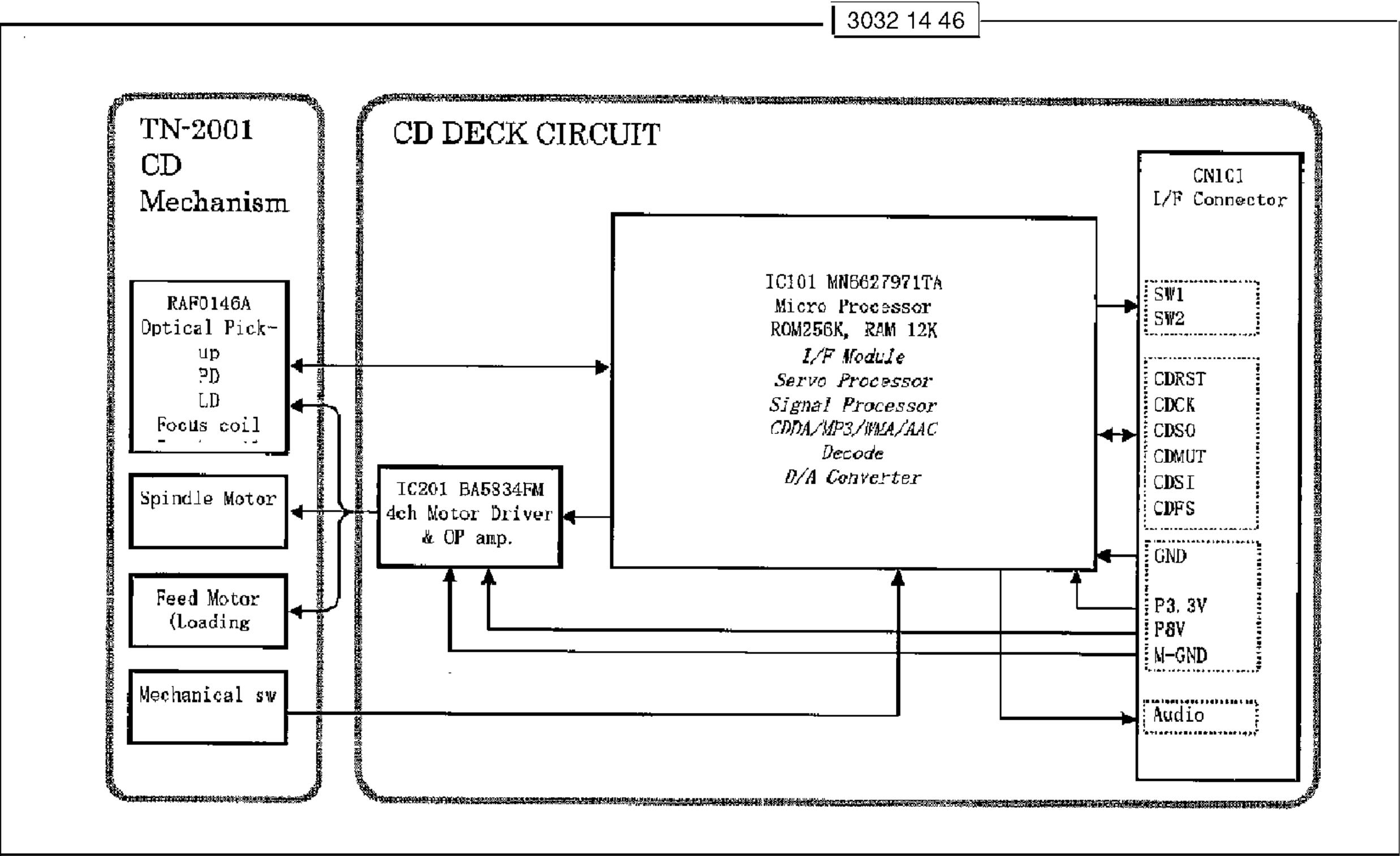


CQ-C7105U/C7205U/C7405W/C7405N MAIN-2

9.3. Display Block



9.4. CD Servo Block



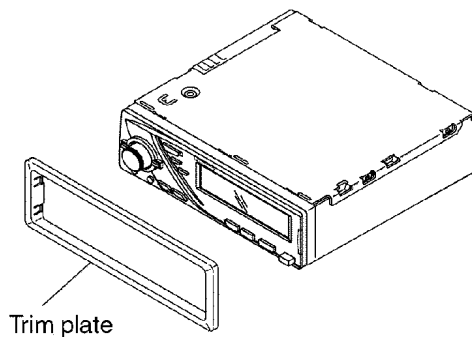
CQ-C7105U/C7205U/C7405N/C7405W/V 8405U/C8305N/C-C8405N8405U 8405N CD DECK

10 DISASSEMBLY INSTRUCTIONS

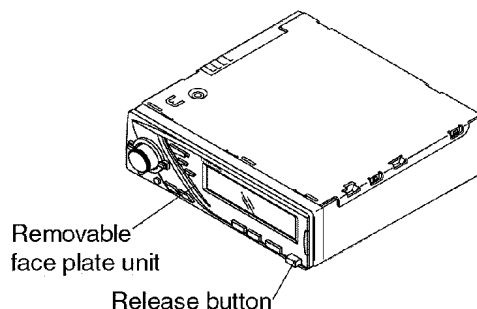
10.1. How to Remove the Flexible PCB(AP2)

■ How to remove the flexible PCB(AP2)

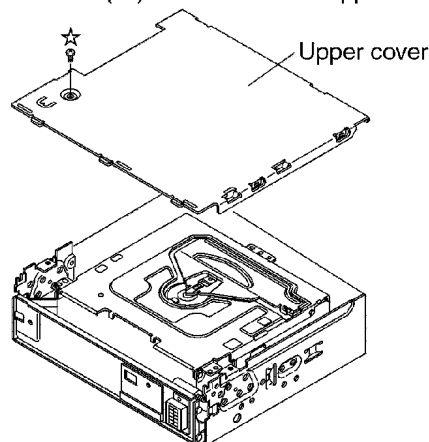
1. Remove the trim plate.



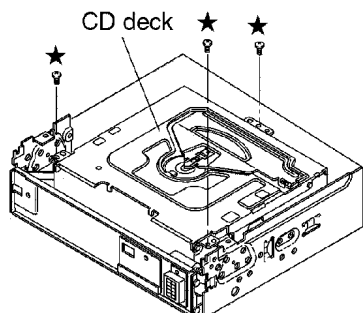
2. Remove the removable face plate unit by pressing the release button.



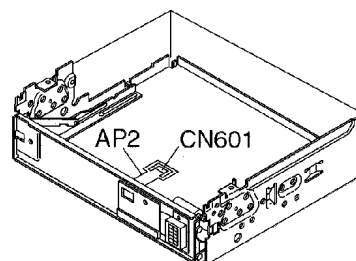
3. Remove the screw(★) and take off the Upper cover.



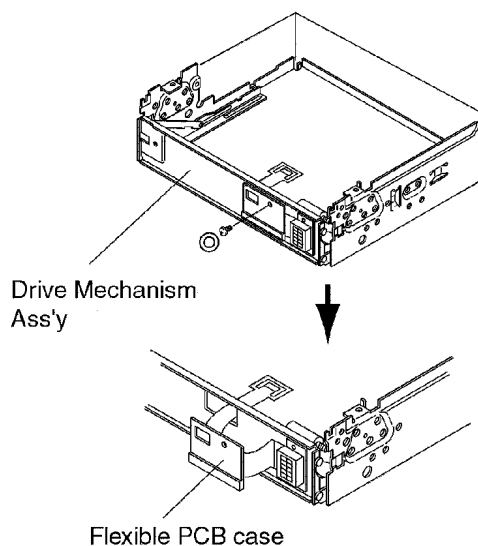
4. Remove the 3 screws(★) and take off the CD deck.



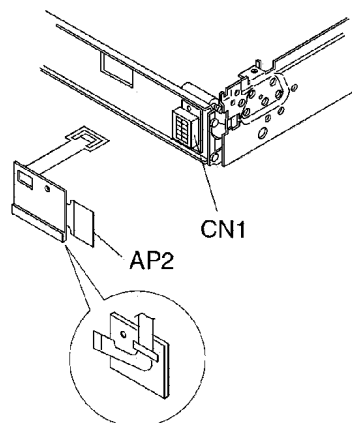
5. Remove the flexible PCB(AP2) from the CN601 (E-4C308a).



6. Remove the screw(◎) from the Drive Mechanism Ass'y and remove the flexible PCB case.



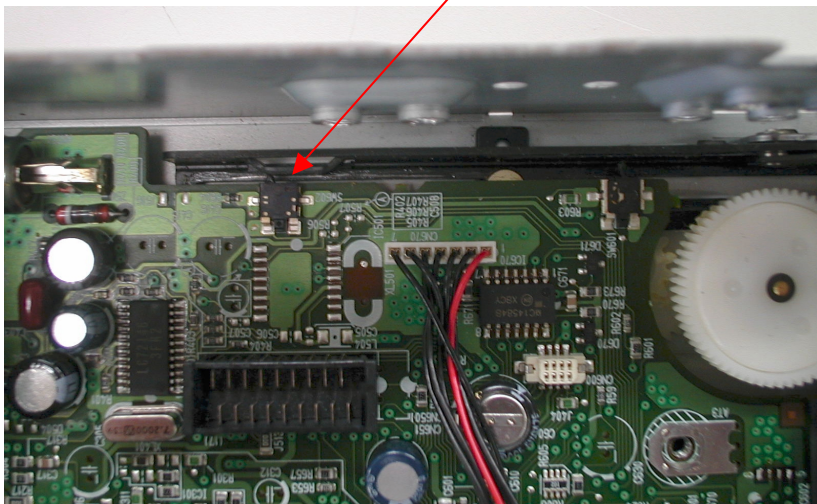
7. Remove the flexible PCB(AP2) from the CN1.



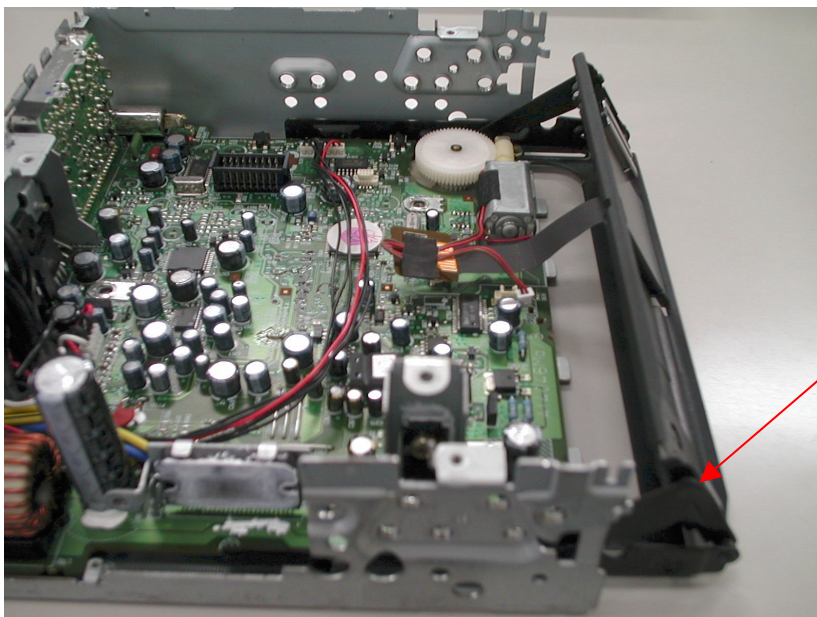
10.2. How to Install the Main P.C.B. of the Electric Display

Please install as shown below in order to prevent damages on the end detection switch of the slide mechanism.

If the main P.C.B is installed when the slide mechanism is not moved forward, the switch will hit the metal part and will be damaged.

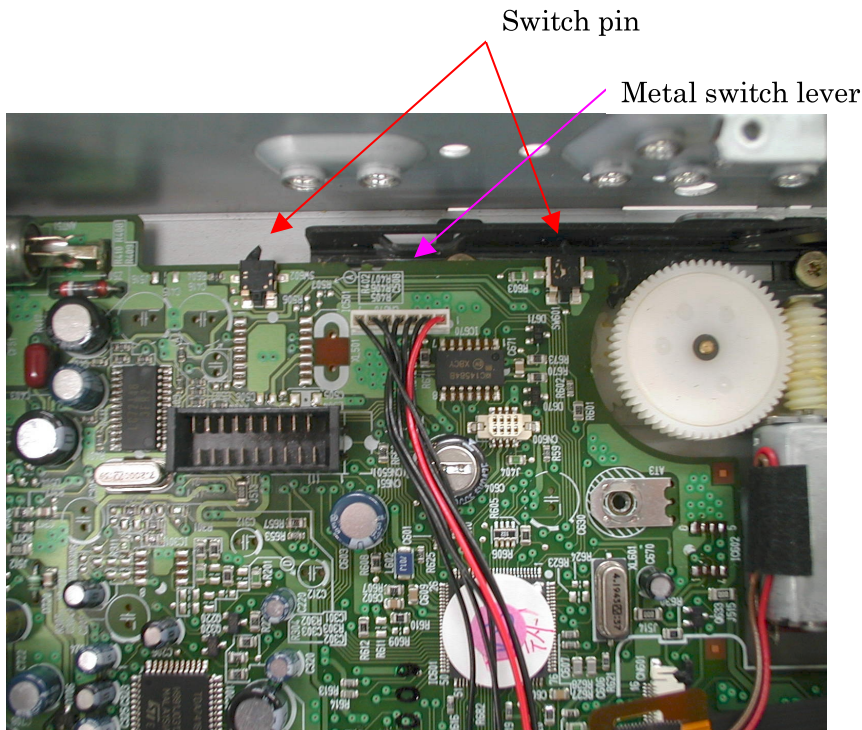


Move the front side by hand and install the main P.C.B. to the chassis when it is tilted 45 degrees.



When tilted 45 degrees

If the front side is tilted 45 degrees, the movable metal lever will not cling onto the switch pin.



11 TERMINALS DESCRIPTION

11.1. Main BLOCK

IC601:YEAMB90F439P

Pin No.	Port	Description	I/O	FM	AM	CD
1	PANEL_OPEN	Panel open detection	I	5.2	5.2	5.2
2	PANEL_CLOSE	Panel close detection	I	0	0	0
3	SUBM_CNT	3.3V power control for Display	0	5.1	5.1	5.1
4	BATT	Battery power check	I	4.8	4.8	4.8
5	ACC	Acc. power check	I	5.4	5.4	5.4
6	SDA	Serial data for electronic volume	I/O	5.1	5.1	5.1
7	SCLK	Serial clock for electronic volume	0	5.2	5.2	5.2
8	CD_MUTE	Signal mute from CD deck	I	0	0	0
9	Vss	GND	I	0	0	0
10	ST	FM stereo detection	I	0	0	0
11	PLL_DI(MO)	Serial data to PLL	0	0	0	0
12	PLL_DO(MI)	Serial data from PLL	I	5.3	5.3	5.3
13	PLL_CLK	Serial clock for PLL	0	5.1	5.1	5.1
14	PLL_CE	Chip enable for PLL	0	0	0	0
15	CD_RESET	Reset for CD deck	0	5.1	5.1	5.1
16	SUB_SI	Serial data to Display CPU	SO	5.7	5.7	5.7
17	CD_IN	Disc-in detection	I	5.1	5.1	5.1
18	SUB_SO	Serial data from Display CPU	SI	5.8	5.8	5.8
19	CH_DATA / XM_SO/UP_SO	XM SO/UP SO	SI	5.3	5.3	5.3
20	CH_CLK/UP_CLK	Serial clock for Changer or Flash writer	SCK	5.3	5.3	5.3
21	Vdd	+5V power supply	I	5.1	5.1	5.1
22	XM_SI(MO)/UP_SI	Serial data to Satellite or Flash writer	SO	5.1	5.1	5.1
23	CD_SI(MO)	Serial data to CD deck	SO	0	0	5.2
24	CD_SCLK	Serial clock for CD deck	SCK	5	5	5.3
25	CONDENSOR	Capacitor connection for power		3.4	3.4	3.4
26	CD_SO(MI)	Serial data from CD deck	SI	0	0	5.5
27	CH_STB	Strobe from Changer	INT	0	0	0
28	CH_REM_OUT	Remote control codes to Changer	0	5.1	5.1	5.1
29	DECK_V_CONT	Power control for CD deck	0	5.1	5.1	5.1
30	REMO_INT	Interrupt for remote control	INT	5.1	5.1	5.1
31	CD_FS	Frame sync. for CD deck	0	5.1	5.1	5.1
32	Avdd	+5V power supply	I	5.1	5.1	5.1
33	AVREF	+5V power supply	I	5.1	5.1	5.1
34	AVGND	GND	I	0	0	0
35	AVSS	GND	I	0	0	0
36	SD	FM/AM signal level meter	A/D	2.48	2.96	0
37	INIT_A	Model setting A by voltage level	A/D	1.76	1.76	1.76
38	INIT_B	Model setting B by voltage level	A/D	0	0	0
39	A_IN	Spectrum analyzer data	A/D	0	0	0
40	Vss	GND	I	0	0	0
41	SYS_ID1	Hub connection device detection ID 1	I	0	0	0
42	SYS_ID2	Hub connection device detection ID 2	I	5.1	5.1	5.1
43	HUB_EVENT	Bluetooth incoming detection	I	0	0	0
44	HUB_CNT	Request of hub connection check	0	5.2	5.2	5.2
45	CD_SW1	Disc detection switch 1	I	5.2	5.2	5.2
46	CD_SW2	Disc detection switch 2	I	0	0	0
47	MOD0	Operating mode control 0 from Flash writer	I	5.2	5.2	5.2
48	MOD1	Operating mode control 1 pulled up to H	I	5.2	5.2	5.2
49	MOD2	Operating mode control 2 from Flash writer	I	0	0	0
50	H_STANDBY	Standby control from external	I	5.2	5.2	5.2

Pin No.	Port	Description	I/O	FM	AM	CD
51	DCDC_CONT	Not connected	0	0	0	0
52	FP_MOTOR1	Open/Close of Front panel 1	0	5.1	5.1	5.1
53	FP_MOTOR2	Open/Close of Front panel 2	0	5.1	5.1	5.1
54	V_CONT1	Reference voltage control for motor driver	0	0	0	0
55	REMO_1	Remote control data	IN	5.1	5.1	5.1
56	SA_CLK	Spectrum analyzer clock	0	5.1	5.1	5.1
57	EXT_MUTE	Pulled up to H	I	5.1	5.1	5.1
58	AMP_CONT	Power control for external Amplifier	0	5.1	5.1	5.1
59	BZ_OUT	Buzzer signal	PPG	0	0	0
60	(8403)OEL_VCONT	Not connected	0	0	0	0
	(Other)NC		0			
61	WOW_MODE1	SRS WOW mode 1	0	0	0	0
62	WOW_MODE2	SRS WOW mode 2	0	0	0	0
63	WOW_MODE3	SRS WOW mode 3	0	0	0	0
64	DIM1	Dimmer control 1	0	0	0	0
65	DIM2	Dimmer control 2	0	0	0	0
66	MAIN_CNT2	Power control for Hub	0	0	0	0
67	SRC_KEY	SOURCE key detection	INT / I	5.1	5.1	5.1
68	PANEL_IN	Panel attachment detection	I	0	0	0
69	NC	Not connected	0	0	0	0
	RDS_CLK		INT			
70	NC (DCDC_FRQ)	Not connected	0	0	0	0
71	NC	Not connected	0	0	0	0
	RDS_DATA		I			
72	MAIN_CONT	Main power control	0	5.2	5.2	5.2
73	INV_CONT	Dimmer power control	0	5.2	5.2	5.2
74	AF_MUTE	Audio mute	O/I	5.2	5.2	5.2
75	RESET	Reset	I	5.2	5.2	5.2
76	FOCUS_ELV	Focus elevation for SRS WOW	0	0	0	0
77	X1A	Oscillator clock	0	5.2	5.2	5.2
78	X0A	Oscillator clock	I	1.9	1.9	1.9
79	Vss	GND	I	0	0	0
80	X1	Crystal oscillator clock	I	3.2	3.2	3.2
81	X2	Crystal oscillator clock	0	4.4	4.4	4.4
82	Vdd	+5V power supply	I	5.3	5.3	5.3
83	P00	Pulled down to L	I	0	0	0
84	P01	Pulled up to H	I	5.2	5.2	5.2
85	OFFSET_DET	Audio clipping level detection from Power amp.	I	5.2	5.2	5.2
86	STBY	Standby for Power amp.	0	5.2	5.2	5.2
87	(7703)MUTE	Mute for Power amp.	0	5.2	5.2	5.2
88	ILL_SENS	Pulled up to H	I	5.2	5.2	5.2
89	(7703)HB_AM	Not connected	0	0	0	0
90	NC/EP_DO(MI)	EPROM comuni. data input	O/I	0	0	0
91	NC/EP_DI(MO)	Not connected	0	0	0	0
92	NC/EP_CLK	Not connected	0	0	0	0
93	SUB_RESET	Reset for display CPU	0	5.1	5.1	5.1
94	DISPM_CONT	5V power control for Display	O/I	0	0	0
95	NC	Not connected	0	0	0	0
96	NC	Not connected	0	0	0	0
97	NC	Not connected	0	0	0	0
98	S_LED	Security LED drive	0	0	0	0
99	ANT_CONT	Power control for antenna motor	0	5.1	5.1	5.1
100	NC/EP_CS	Not connected	I	0	0	0

11.2. Display Block

IC900:YEAMB90488BP

Pin No.	Port	Description	I/O	(V)
1	P22/A18	A18 in Address bus	0	3.5
2	P23/A19	A19 in Address bus	0	3.5
3	P24/A20/ PPG0	A20 in Address bus	0	3.5
4	P25/A21/ PPG1	NC	0	-
5	P26/A22/ PPG2	LED_G Control	0	0.7
6	P27/A23/ PPG3	LED_B Control	0	0.7
7	P30/A00/ AIN0	LCD driver data command distinction terminal	0	3.5
8	P31/A01/ BIN0	A0 in Address bus	0	3.5
9	VSS	GND	--	0
10	P32/A02/ ZIN0	A1 in Address bus	0	3.5
11	P33/A03/ AIN1	A2 in Address bus	0	3.5
12	P34/A04/ BIN1	A3 in Address bus	0	3.5
13	P35/A05/ ZIN1	A4 in Address bus	0	3.5
14	P36/A06/ PWC0	A5 in Address bus	0	3.5
15	P37/A07/ PWC1	A6 in Address bus	0	0
16	P40/A08/ SIN2	A7 in Address bus	0	3.5
17	P41/A09/ SOT2	A8 in Address bus	0	0
18	P42/A10/ SCK2	A9 in Address bus	0	0
19	P43/A11/ MT00	A10 in Address bus	0	3.5
20	P44/A12/ MT01	A11 in Address bus	0	3.5
21	VCC	+3.3v power supply	--	3.5
22	P45/A13/ EXTC	A12 in Address bus	0	3.2
23	P46/A14/ OUT4	A13 in Address bus	0	3.2
24	P57/A15/ OUT5	A14 in Address bus	0	3.2
25	P70/SIN0	Serial data from Main CPU or Flash writer	0	3.2
26	P71/SOT0	Serial data from Main CPU or Flash writer	0	3.5
27	P71/SCK0	External Flash rewriting switch	I	3.5
28	P73/TIN0	NC	0	-
29	P74/TOT0	Flash reset	0	3.5
30	P75/PWC2	Key scan 1	I	0
31	P76/SCL	NC	0	-
32	P77/SDA	NC	0	-
33	AVCC	+3.3 Power supply	--	3.5
34	AVRH	+3.3 Power supply	--	3.5
35	AVSS/AVRL	GND	--	0
36	P60/AN0	Key matrix setting	I	3.5
37	P61/AN1	Key scan 2	I	0
38	P62/AN2	Key scan 3	I	0
39	P63/AN3	NC	0	-
40	VSS	GND	--	0
41	P64/AN4	Key-in return 5	I	0
42	P65/AN5	Key-in return 4	I	0
43	P66/AN6	Key-in return 3	I	0
44	P67/AN7	Key-in return 2	I	0
45	P80/IRQ0	NC	I	0
46	P81/IRQ1	NC	I	3.8
47	MD0	MODE SET 0	I	3.5
48	MD1	MODE SET 1	I	3.5
49	MD2	MODE SET 2	I	0
50	P82/IRQ2	NC	0	-
51	P83/IRQ3	Volume-up detection from Rotary encoder	I	3.2

Pin No.	Port	Description	I/O	(V)
52	P84/IRQ4	Volume-down detection from Rotary encoder	I	3.2
53	P85/IRQ5	NC	0	-
54	P86/IRQ6	NC	0	-
55	P87/IRQ7	NC	0	-
56	P90/SIN1/ CS0	NC	0	-
57	P91/SOT1/ CS1	NC	0	-
58	P92/SCK1/ CS2	chip enable for Flash memory	0	3.5
59	P93/FRCK/AD TG/CS3	LCD chip select	0	3.5
60	PN94/PPG4	LED_R Control	0	0.7
61	PN95/PPG5	NC	0	-
62	P96/IN0	NC	0	-
63	P97/IN1	NC	0	-
64	PA0/OUT0	Power control for LCD	0	3.5
65	PA1/OUT1	NC	0	-
66	PA2/OUT2	NC	0	-
67	PA3/OUT3	NC	0	-
68	P50/ALE	NC	0	-
69	P51/RDX	output enable for Flash memory	0	3.4
70	P52/WRLX	Write strobe for LCD	0	3.4
71	P53/WRHX	Write enable	0	3.4
72	P54/HRQ	NC	0	-
73	P55/HAKX	Reset for LCD	0	3.4
74	P56/RDY	Ready/Busy from Flash memory	I	3.4
75	RSTX	RESET	I	3.5
76	P57/CLK	NC	0	-
77	X1A	NC	0	-
78	X0A	NC	I	-
79	VSS	GND	--	0
80	X0	System clock (12.5MHZ)	I	3.2
81	X1	System clock (12.5MHZ)	0	3.2
82	VCC	+3.3 Power supply	--	3.5
83	P00/AD00/ D00	D0 in Address bus	I	3.8
84	P01/AD01/ D01	D1 in Address bus	I	3.8
85	P02/AD02/ D02	D2 in Address bus	I	3.8
86	P03/AD03/ D03	D3 in Address bus	I	3.8
87	P04/AD04/ D04	D4 in Address bus	I	3.8
88	P05/AD05/ D05	D5 in Address bus	I	3.8
89	P06/AD06/ D06	D6 in Address bus	I	3.8
90	P07/AD07/ D07	D7 in Address bus	I	3.8
91	P08/AD08/ D08	D8 in Address bus	I/O	3.8
92	P09/AD09/ D09	D9 in Address bus	I/O	3.8
93	P10/AD10/ D10	D10 in Address bus	I/O	3.8
94	P11/AD11/ D11	D11 in Address bus	I/O	3.8
95	P12/AD12/ D12	D12 in Address bus	I/O	3.8
96	P13/AD13/ D13	D13 in Address bus	I/O	3.8
97	P14/AD14/ D14	D14 in Address bus	I/O	3.8
98	P15/AD15/ D15	D15 in Address bus	I/O	3.8
99	P20/A16	A15 in Address bus	0	3.8
100	P21/A17	A16 in Address bus	0	3.8

11.3. CD Servo Block

IC101 : MN6627971TA

Pin No.	Port	Description	Play(V)	Stop(V)
1	P96	SW1	0.2	0.2
2	P95	RESET_SW	3.3	3.3
3	P94	LD-MON	2.1	2.2
4	P93	TEST1	0	0
5	P92	TEST2	0	0
6	P91	TEST3	0	0
7	P90	TEST4	0	0
8	P87	MON1	-	-
9	P86	MON0	-	-
10	P85	CDMUT	0	3.3
11	P84	N.C.	-	-
12	NPWDOWN	NPWDOWN	1.2	1.2
13	DVSS3	DVSS3	0	0
14	SRAMVDD	SRAMVDD	1.5	1.5
15	REGOUT	REGOUT	1.5	1.5
16	REGVDD	REGVDD	3.3	3.3
17	REGON2	REGON2	3.3	3.3
18	P83	N.C.	-	-
19	P82	NPWDOWN	3.3	3.3
20	P81	N.C.	-	-
21	P80	SEQIN	0	0
22	P34	DI/DO	0	0
23	P35	SK	0	0
24	P36	CS	0	0
25	P37	N.C.	0	0
26	P44	LD-MT	0	0
27	P45	LD-EJ	3.2	3.2
28	P46	CNT	3.2	3.2
29	P47	/RST	3.2	3.2
30	P60	STREQ	0	0
31	P61	STCLK	0	0
32	P62	STIN	0	0
33	P63	N.C.	0	0
34	P64	N.C.	0	0
35	P65	N.C.	0	0
36	P66	N.C.	0	0
37	P67	N.C.	0	0
38	SDRCK	SDRCK	-	-
39	A11	N.C.	-	-
40	A9	N.C.	-	-
41	A8	N.C.	-	-
42	A7	N.C.	-	-
43	A6	N.C.	-	-
44	A5	N.C.	-	-
45	A4	N.C.	-	-
46	NEW	N.C.	-	-
47	NCAS	N.C.	-	-
48	NRAS	N.C.	-	-
49	A3	N.C.	-	-
50	A2	N.C.	-	-
51	A1	N.C.	-	-
52	A0	N.C.	-	-
53	A10	N.C.	-	-
54	DVSS1	DVSS1	0	0
55	IOVDD1	IOVDD1	3.3	3.3
56	DVDD1	DVDD1	1.5	1.5
57	FVDD	FVDD	0	0
58	N.C.	N.C.	0	0
59	REGON	REGON	3.3	3.3
60	SPOUT	SPOUT	-	1.65
61	SPPOL	SPPOL	-	-
62	TRVP	TRVP	-	1.65
63	P40	N.C.	0	0
64	N.C.	N.C.	-	-
65	TRVP2	TRVP2	0	0
66	P41	N.C.	0	0
67	TRP	TRP	-	1.65
68	P42	N.C.	0	0
69	FOP	FOP	-	1.65

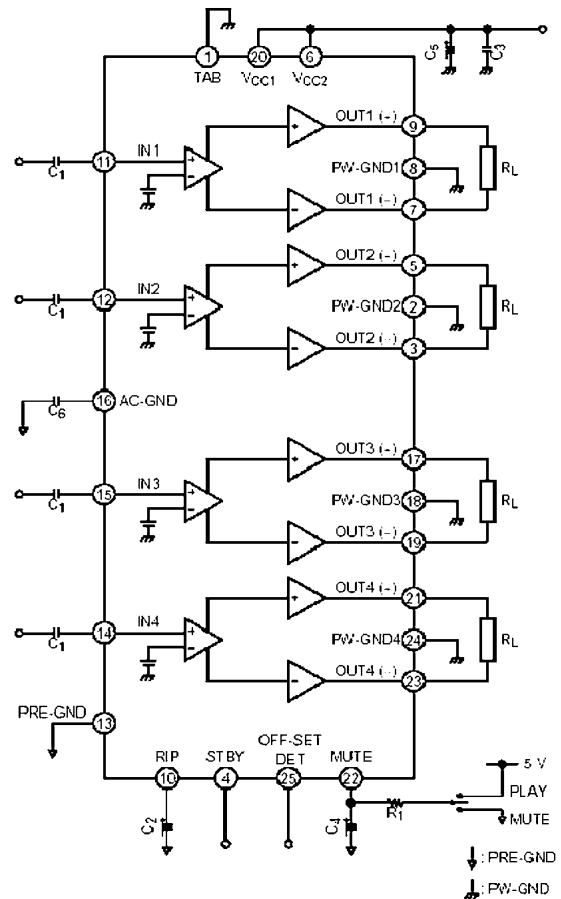
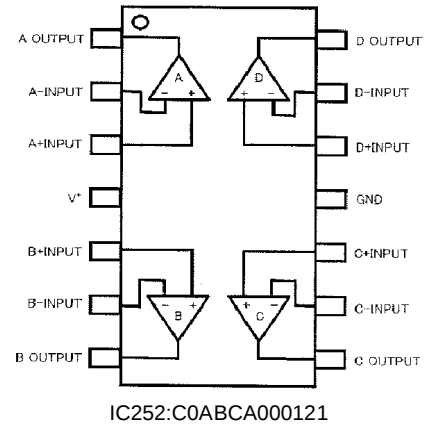
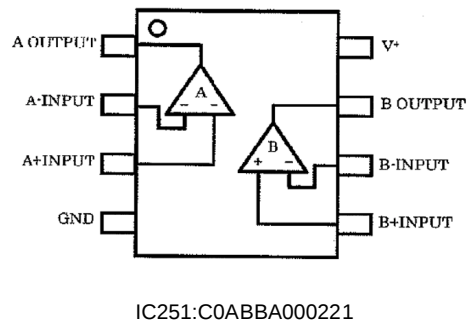
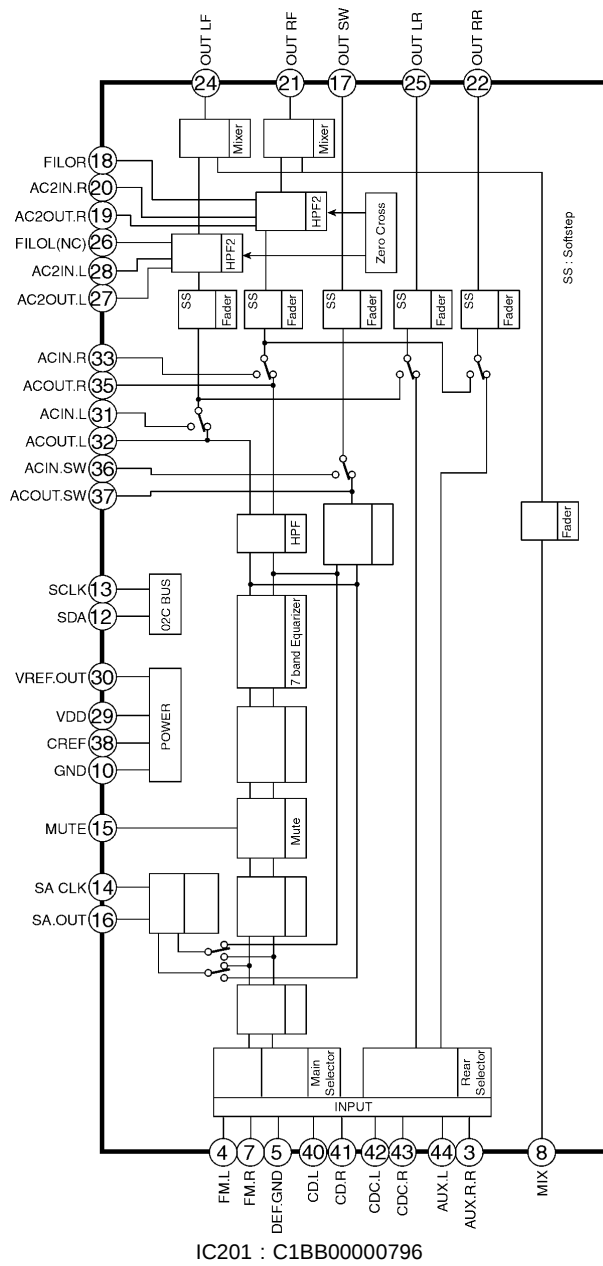
Pin No.	Port	Description	Play(V)	Stop(V)
70	P43	N.C.	0	0
71	AVSS2	AVSS2	0	0
72	OSCIN	OSCIN	1.65	1.65
73	CTRCRS	CTRCRS	1.6	1.6
74	VREF	VREF	1.65	1.65
75	E	E	*2.1	1.65
76	F	F	*2.1	1.65
77	D	D	*1.8	1.65
78	B	B	*1.8	1.65
79	C	C	*1.8	1.65
80	A	A	*1.8	1.65
81	PD	PD	0.17	0
82	LD	LD	2.5	3.3
83	CENV	CENV	1.9	1.5
84	RFENV	RFENV	1.7	1.7
85	RFOUT	RFOUT	*1.1	1.6
86	RFIN	RFIN	*1.8	1.8
87	AVDD2	AVDD2	3.3	3.3
88	ARFDC	ARFDC	1.1	1.1
89	ARFOUT	ARFOUT	*1.2	1.2
90	ARFFB	ARFFB	*1.25	1.25
91	ARFIN	ARFIN	*1.6	0
92	DSLIF	DSLIF	1.6	0
93	IREF	IREF	0.8	0
94	PLLIF	PLLIF	1.4	0
95	PLLIF0	PLLIF0	1.4	0
96	VCOF	VCOF	0	0
97	OUTL	OUTL	-	1.65
98	AVSS1	AVSS1	0	0
99	AVREF	AVREF	1.65	1.65
100	AVDD1	AVDD1	3.3	3.3
101	OUTR	OUTR	-	1.65
102	TEST	TEST	0	0
103	CSEL	CSEL	0	0
104	PWMSEL	PWMSEL	3.3	3.3
105	SRVMONON	SRVMONON	0	0
106	SEQMODE	SEQMODE	0	0
107	NRST	NRST	3.3	3.3
108	IOVDD2	IOVDD2	3.3	3.3
109	X1	X1	16.9MHz	16.9MHz
110	X2	X2	16.9MHz	16.9MHz
111	SVSS2	SVSS2	0	0
112	MX1	MX1	0	0
113	MX2	MX2	-	-
114	IOVDD3	IOVDD3	3.3	3.3
115	MXSEL	MXSEL	0	0
116	P00	CDS0	3.3/0	3.3/0
117	P01	CDSI	3.3/0	3.3/0
118	P02	CDCK	3.3/0	3.3/0
119	P03	OCDD	3.3	3.3
120	P04	OCDC	3.3	3.3
121	OCDSSEL	OCDSSEL	3.3	3.3
122	P15	STAT	-	-
123	P16	MDATA	-	-
124	P17	MCLK	-	-
125	P20	MLD	3.3	3.3
126	P21	CDFS	3.3/0	3.3/0
127	DVDD2	DVDD2	3.3	3.3
128	P97	SW2	0.2	0.2

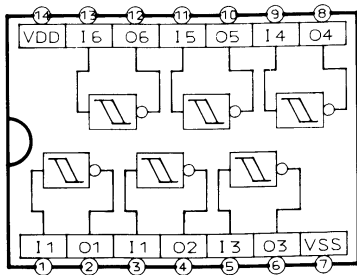
IC201:BA5834FM-E2

Pin No.	Port	Description	I/O	Play (V)	Stop (V)	Load (V)	Eject (V)
1	BIAS1	BIAS INPUT TERMINAL	I	1.65	1.65	1.65	1.65
2	VIN1	CH1 INPUT TERMINAL	I	1.7	1.65	1.65	1.65
3	VIN2	CH2 INPUT TERMINAL	I	1.65	1.65	1.65	1.65
4	OPIN(+)	OPIN INPUT TERMINAL	I	1.65	1.65	1.65	1.65
5	OPIN(-)	OPIN OUTPUT TERMINAL	I	1.65	1.65	1.65	1.65
6	OPOUT	OPOUT	I	1.65	1.65	1.65	1.65
7	GND	GND		0	0	0	0
8	PowVcc1	Vcc(CH1, CH2)	—		8	8	8
9	MUTE12	CH1, CH2	—	3.3	3.3	3.3	0
10	GND	GND	—	0	0	0	0
11	VO2(-)	DRIVER CH2(-) OUTPUT	0	4.6	4.6	4.6	4.6
12	VO2(+)	DRIVER CH2(+) OUTPUT	0	4.6	4.6	4.6	4.6
13	VO1(-)	DRIVER CH1(-) OUTPUT	0	4.4	4.6	4.6	4.6
14	VO1(+)	DRIVER CH1(+) OUTPUT	0	4.8	4.6	4.6	4.6
15	VO4(+)	DRIVER CH4(+) OUTPUT	0	3.9	3.9	0.2	7.4
16	VO4(-)	DRIVER CH4(-) OUTPUT	0	3.9	3.9	7.4	0.2
17	VO3(+)	DRIVER CH3(+) OUTPUT	0	4.2	3.9	3.9	3.9
18	VO3(-)	DRIVER CH3(-) OUTPUT	0	3.6	3.9	3.9	3.9
19	GND	GND		0	0	0	0
20	MUTE4	CH4 MUTE OUTPUT	0	0	0	3.3	3.3
21	PowVcc2	Vcc(CH3, CH4)			8	8	8
22	PreVcc	PreVcc	—	8	8	8	8
23	VIN3	CH3 INPUT TERMINAL	I	1.65	1.65	1.65	1.65
24	LDIN	CH4 LODING INPUT TERMINAL	I	3.2	3.2	0	3.2
25	BIAS2	BIAS 2 INPUT TERMINAL	I	1.1	1.1	1.1	1.1
26	TRIN	CH4 DRIVER INPUT TERMINAL	I	1.65	1.65	1.65	1.65
27	MUTE3	CH3 MUTE TERMINAL	—	3.3	3.3	0	0
28	CNT	CONTROL TERMINAL	—	3.2	3.2	0	0

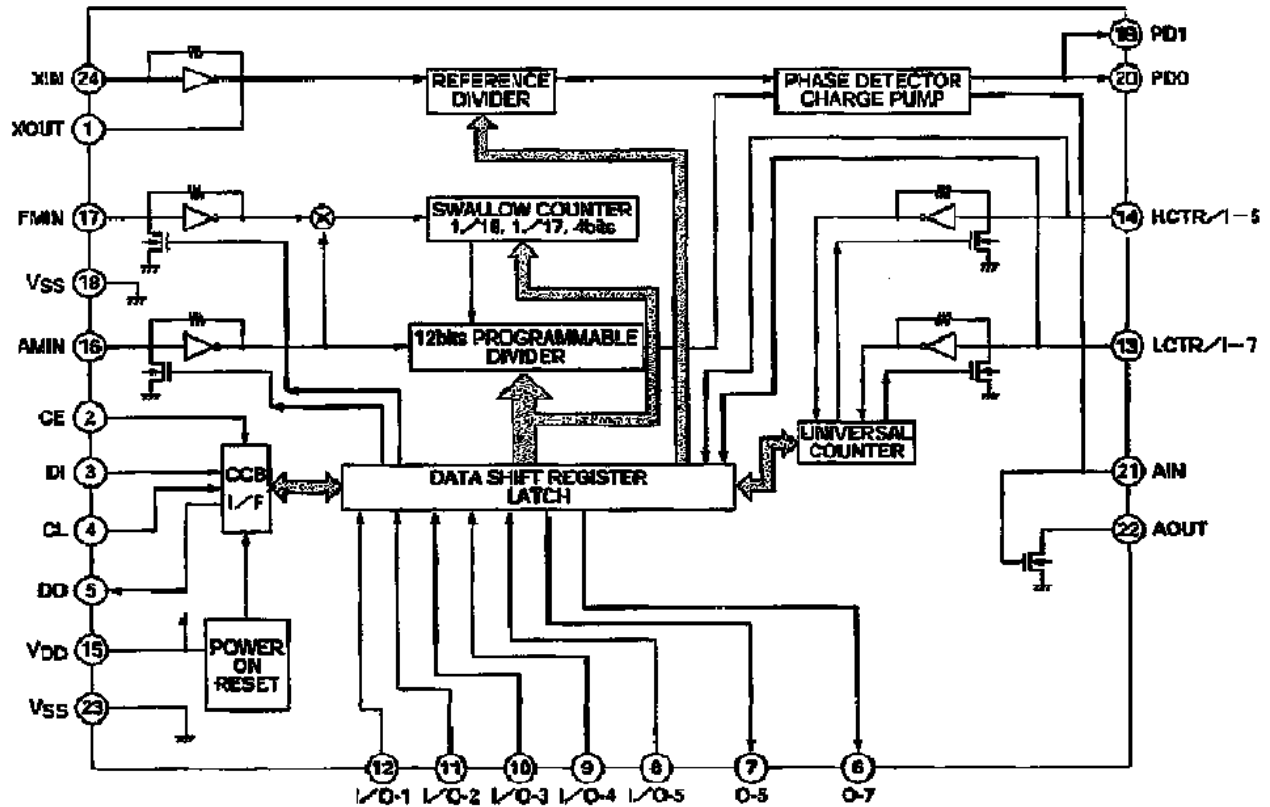
12 IC BLOCK DIAGRAM

12.1. Main Block

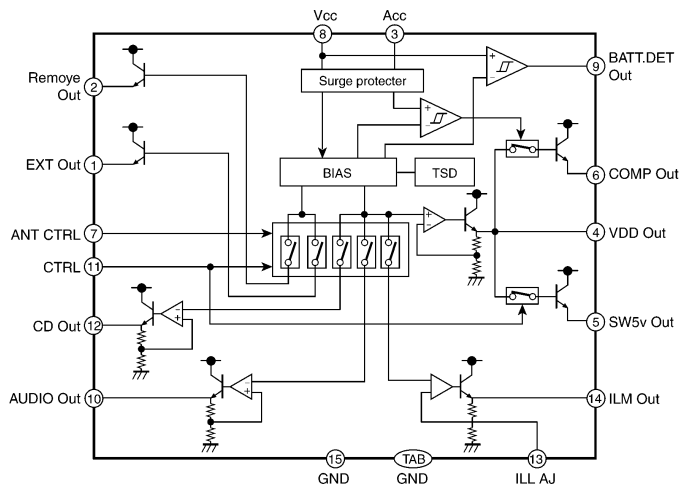




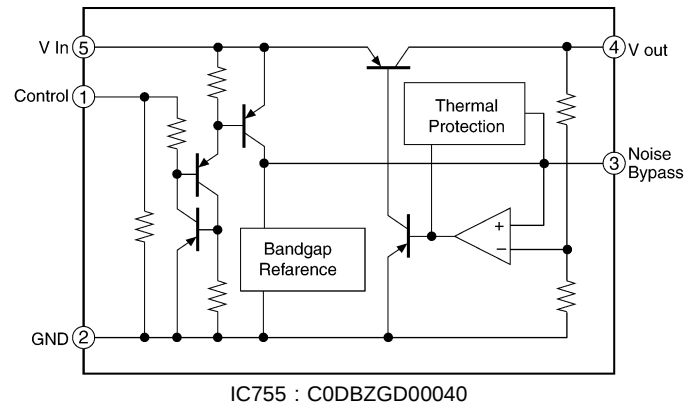
IC670 : C0JBAZ000904



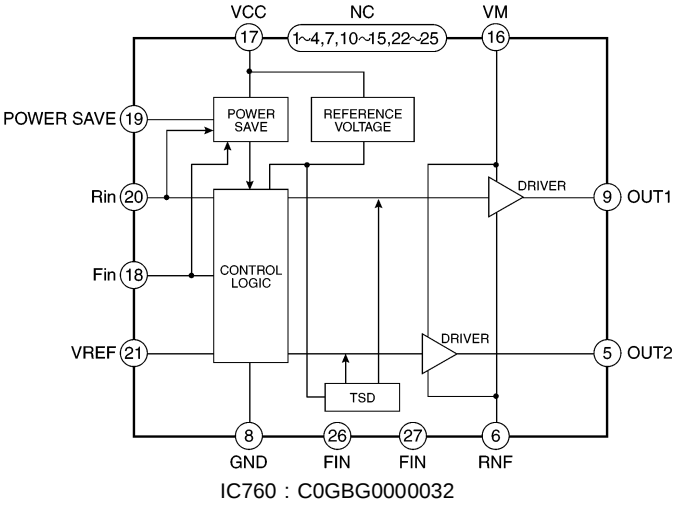
IC401: C1BB00001045



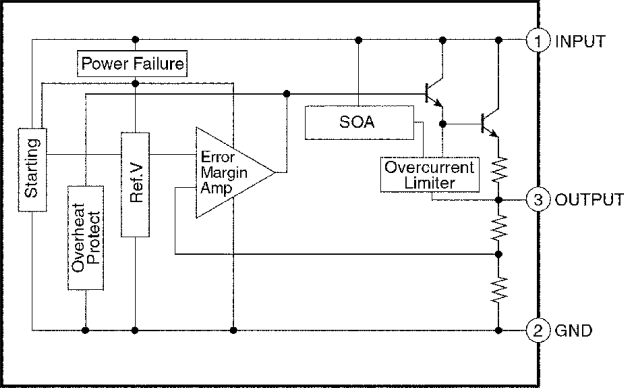
IC701 : C0DAZHF00004



IC755 : C0DBZGD00040

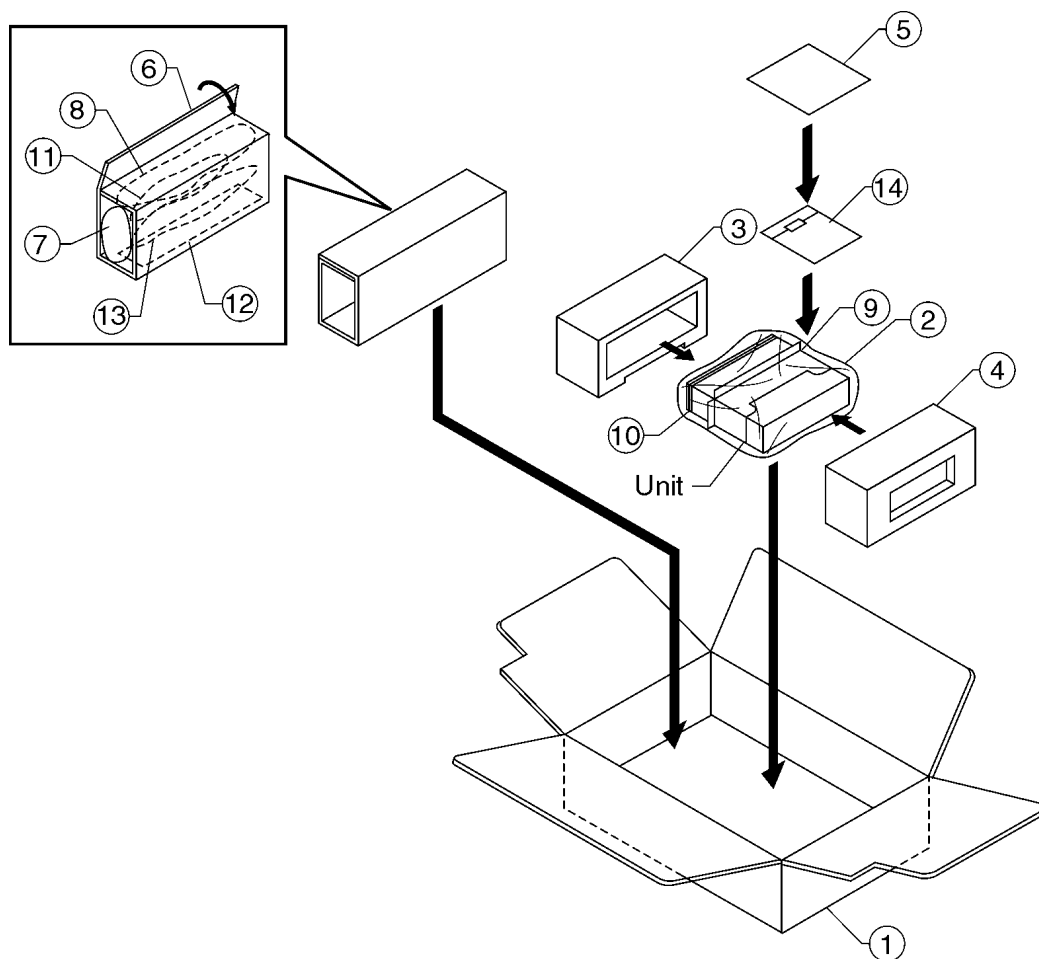


IC760 : C0GBG0000032



IC752 : C0CBCBG00012

13 PACKING PARTS LIST



- Item numbers listed below should not order regular spare parts. **(not available)**

Item No.	Part No.	Part Name & Description	Q'ty	Remarks
1	-	Inner Carton	1	Not available
2	-	Polyethylene Bag	1	Not available
3	-	Packing Pad Front	1	Not available
4	-	Packing Pad Rear	1	Not available
5	-	Instruction Kit	1	Not available
	YFM284C662CA	Operating Instructions	(1)	
	YFM284C663CA	Upgrade Instructions	(1)	
	YFM294C091CA	Installation Instructions	(1)	
	-	Warranty Card	(1)	Not available
6	-	Sleeve	1	Not available
7	EUR7641010	Remote Control Unit (includes a battery)	1	
-	CR2025/1F	Lithium Battery	1	
8	YGAJ021009	Power Connector	1	
9	FX0214C384ZB	Mounting Collar	1	
10	YEFC051013	Trim Plate	1	
11	YEP0FZ5739	Installation Kit (Lock Cancel Plate, Mounting Bolt, Tapping Screw, Hex Nut)	1	
12	YEFG04C002ZA	Rear Support Strap	1	
13	ZZUNIT-C8403	Removable Face Plate Case	1	
14	YEP0FZ5738	Security Screw Kit	1	

14 REPLACEMENT PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
 - Order intake period is basically six months after the first shipment.
5. "T" marks in remarks column are indicated supply parts of PTW.

Ref. No.	Part No.	Part Name & Description	Remarks
[E-4C308] Main/Sub Block			
IC's AND TRANSISTORS			
IC201	C1BB00000796	IC	T
IC251	C0ABBA000221	IC	T
IC252	C0ABCA000121	IC	T
IC271	C1ZAZ0001486	IC	T
IC401	C1BB00001045	IC	T
IC601	YEAMB90F439P	IC	T
IC602	C3EBDG000068	IC	T
IC630	C0JBAA000372	IC	T
IC650	C0JBAA000372	IC	T
IC670	C0JBAA000904	IC	T
IC701	C0DAZH000004	IC	T
IC702	C0EBZ0000035	IC	T
IC752	C0CBCB000012	IC	T
IC755	C0DBZG000040	IC	T
IC760	C0GBG0000032	IC	T
IC770	C0DBAH000020	IC	T
IC790	C0CBCY000004	IC	T
PA51	C5BA00000122	Tuner (W/B)	T
Q220	B1GBCFNN0004	Transistor	T
Q235	B1GBHBEA0004	Transistor	T
Q241	B1GBHBEA0004	Transistor	T
Q251	B1GBHBEA0004	Transistor	T
Q252	B1GBHBEA0004	Transistor	T
Q320	B1GBCFNN0004	Transistor	T
Q335	B1GBHBEA0004	Transistor	T
Q341	B1GBHBEA0004	Transistor	T
Q351	B1GBHBEA0004	Transistor	T
Q352	B1GBHBEA0004	Transistor	T
Q353	B1GBHBEA0004	Transistor	T
Q354	B1GDCFJJ0002	Transistor	T
Q411	B1CBGF000005	Transistor	T
Q55	B1GDGFEH0001	Transistor	T
Q630	B1GBCFNN0004	Transistor	T
Q633	B1GDCFJJ0002	Transistor	T
Q650	B1GBCFJN0004	Transistor	T
Q651	B1GBCFJN0004	Transistor	T
Q652	B1GBCFJN0004	Transistor	T

Ref. No.	Part No.	Part Name & Description	Remarks
Q680	B1GDGFEH0001	Transistor	T
Q681	B1GDCFJJ0002	Transistor	T
Q701	B1BACF000026	Transistor	T
Q760	B1GBCFNN0004	Transistor	T
Q771	B1ABCF000187	Transistor	T
Q791	B1GBNCEJ0003	Transistor	T
Q793	B1GBCFJN0004	Transistor	T
DIODES			
D201	B0ECKP000002	Silcon Diode	T
D202	B0ECKP000002	Silcon Diode	T
D203	B0ECKP000002	Silcon Diode	T
D204	B0ECKP000002	Silcon Diode	T
D251	B0JCMC000004	Diode	T
D301	B0ECKP000002	Silcon Diode	T
D302	B0ECKP000002	Silcon Diode	T
D303	B0ECKP000002	Silcon Diode	T
D304	B0ECKP000002	Silcon Diode	T
D601	B0JCMC000004	Diode	T
D630	B3AAB0000143	CHIP LED	T
D631	B0BC5R600010	Zener Diode	T
D632	MA3X152D0L	Diode	T
D635	B0BC5R600010	Zener Diode	T
D636	B0BC5R600010	Zener Diode	T
D637	B0BC5R600010	Zener Diode	T
D638	B0BC5R600010	Zener Diode	T
D639	B0BC5R600010	Zener Diode	T
D670	B0JCMC000004	Diode	T
D672	MA3X72100L	Diode	T
D673	B0BC5R7A0062	Zener Diode	T
D701	B0BA04700003	Diode	T
D702	MA2Q73600L	Diode	T
D703	B0BC5R7A0062	Zener Diode	T
D704	B0JCMC000004	Diode	T
D705	B0ECKP000002	Silcon Diode	T
D706	B0ECKP000002	Silcon Diode	T
D707	B0JCPE000004	Diode	T
D708	MA2Q73600L	Diode	T
D710	B0JCMC000004	Diode	T
D715	MA3X152A0L	Diode	T
D716	MA3X72100L	Diode	T
D751	B0ECKP000002	Silcon Diode	T
D752	B0ECKP000002	Silcon Diode	T
D760	B0BC5R000020	Zener Diode	T
D761	B0BC3R0A0058	Zener Diode	T
D770	B0JCMC000004	Diode	T
D771	B0JCQD000002	Diode	T
D772	B0BC013A0063	Diode	T
CAPACITORS			
C52	F1J1H470A732	Ceramic 47pF 50WV	T
C53	F1J1H103A733	Ceramic 0.01MFD 50WV	T
C54	F2A1A221A023	Electrolytic 220pF 10WV	T
C55	F1J1H103A733	Ceramic 0.01MFD 50WV	T
C56	F3F1E105A001	Ceramic 1MFD 25WV	T
C57	F2A1A101A023	Electrolytic 100pF 10WV	T
C58	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C61	F1J1H273A733	Chip 0.027MFD 50WV	T
C62	F1J1H273A733	Chip 0.027MFD 50WV	T
C65	F1J1H102A733	Ceramic 1000pF 50WV	T
C206	F2A1C100A029	Electrolytic 10pF 16WV	T
C213	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C215	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C217	F1J1C334A006	Ceramic 0.33MFD 16WV	T
C220	F1J1C225A173	Ceramic 2.2MFD 16WV	T
C237	F1J1C225A173	Ceramic 2.2MFD 16WV	T
C242	F1J1C225A173	Ceramic 2.2MFD 16WV	T
C251	F1J1C474A173	Ceramic 0.47MFD 16WV	T
C252	F1J1H470A732	Ceramic 47pF 50WV	T
C253	F1J1C225A173	Ceramic 2.2MFD 16WV	T
C254	F1J1C474A173	Ceramic 0.47MFD 16WV	T

Ref. No.	Part No.	Part Name & Description	Remarks
C255	F1J1H470A732	Ceramic 47pF 50WV	T
C256	F1J1C225A173	Ceramic 2.2MFD 16WV	T
C271	F1J1H472A733	Ceramic 0.0047MFD 50WV	T
C272	F1J1H472A733	Ceramic 0.0047MFD 50WV	T
C274	F2A1C470A029	Electrolytic 47pF 16WV	T
C275	F1J1C105A173	Ceramic 1MFD 16WV	T
C278	F1J1E104A161	Ceramic 0.1MFD 25WV	T
C279	F2A1C2220082	Electrolytic 2200pF 16WV	T
C296	F1K1C474A098	Ceramic 0.47MFD 16WV	T
C297	F1K1C474A098	Ceramic 0.47MFD 16WV	T
C306	F2A1C100A029	Electrolytic 10pF 16WV	T
C313	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C315	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C317	F1J1C334A006	Ceramic 0.33MFD 16WV	T
C320	F1J1C225A173	Ceramic 2.2MFD 16WV	T
C321	F1J1C225A173	Ceramic 2.2MFD 16WV	T
C323	F2A1C100A029	Electrolytic 10pF 16WV	T
C324	F2A1H2R2A019	Electrolytic 2.2pF 50WV	T
C325	F2A1H2R2A019	Electrolytic 2.2pF 50WV	T
C326	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C327	F2A1A221A023	Electrolytic 220pF 10WV	T
C328	F1J1H103A733	Ceramic 0.01MFD 50WV	T
C329	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C330	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C331	F1J1C225A173	Ceramic 2.2MFD 16WV	T
C351	F1J1C474A173	Ceramic 0.47MFD 16WV	T
C352	F1J1H470A732	Ceramic 47pF 50WV	T
C353	F1J1C225A173	Ceramic 2.2MFD 16WV	T
C354	F1J1C474A173	Ceramic 0.47MFD 16WV	T
C355	F1J1H470A732	Ceramic 47pF 50WV	T
C356	F1J1C225A173	Ceramic 2.2MFD 16WV	T
C361	F1J1C474A173	Ceramic 0.47MFD 16WV	T
C362	F1J1H470A732	Ceramic 47pF 50WV	T
C363	ECEA1EKS3R3I	Electrolytic 3.3PF 25WV	T
C364	F2A1C100A029	Electrolytic 10pF 16WV	T
C365	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C366	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C367	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C368	F2A1C470A029	Electrolytic 47pF 16WV	T
C371	F1J1H472A733	Ceramic 0.0047MFD 50WV	T
C372	F1J1H472A733	Ceramic 0.0047MFD 50WV	T
C374	ECEA1HUT2R2IV	Electrolytic 2.2PF 50WV	T
C375	F2A1H1R0A019	Electrolytic 1pF 16WV	T
C378	F1J1E104A161	Ceramic 0.1MFD 25WV	T
C396	F1K1C474A098	Ceramic 0.47MFD 16WV	T
C397	F1K1C474A098	Ceramic 0.47MFD 16WV	T
C400	F1J1H102A733	Ceramic 1000pF 50WV	T
C401	F1J1H270A732	Chip 27pF 50WV	T
C402	F1J1H270A732	Chip 27pF 50WV	T
C403	F2A0J101A020	Electrolytic 100pF 6.3WV	T
C404	F1J1H103A733	Ceramic 0.01MFD 50WV	T
C405	F1H1H101A841	Ceramic 100PF 16WV	T
C411	F1J1H103A733	Ceramic 0.01MFD 50WV	T
C412	F1J1H223A733	Chip 0.022MFD 50WV	T
C413	ECQV1H224JL2	Plastic Film 0.22MFD 50WV	T
C414	F2A1A221A023	Electrolytic 220pF 10WV	T
C415	F2A1A221A023	Electrolytic 220pF 10WV	T
C417	F1J1H102A733	Ceramic 1000pF 50WV	T
C601	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C602	F1H1E103A086	Ceramic 0.01MFD 25WV	T
C603	F2A0J331A020	Electrolytic 330pF 6.3WV	T
C605	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C606	F1H1H220A841	Ceramic 22PF 16WV	T
C607	F1J1H220A732	Chip 22pF 50WV	T
C608	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C609	ECUV106K10AT	Ceramic 10MFD 10WV	T
C610	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C612	F1H1H120A231	Ceramic 12PF 16WV	T
C613	F1H1H120A231	Ceramic 12PF 16WV	T
C631	F2A1H4R7A019	Electrolytic 4.7pF 50WV	T
C632	F1J1E104A161	Ceramic 0.1MFD 25WV	T
C633	F2A1C470A029	Electrolytic 47pF 16WV	T
C634	F1H1E103A086	Ceramic 0.01MFD 25WV	T

Ref. No.	Part No.	Part Name & Description	Remarks
C635	F1J1H103A733	Ceramic 0.01MFD 50WV	T
C636	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C650	F1J1H103A733	Ceramic 0.01MFD 50WV	T
C670	F2A1C100A029	Electrolytic 10pF 16WV	T
C671	F1H1E103A086	Ceramic 0.01MFD 25WV	T
C680	F2A1H2R2A019	Electrolytic 2.2pF 50WV	T
C701	F1J1C224A173	Ceramic 0.22MFD 16WV	T
C702	ECEA1CUT102IV	Electrolytic 1000PF 16WV	T
C704	F2A0J331A020	Electrolytic 330pF 6.3WV	T
C705	F1H1E103A086	Ceramic 0.01MFD 25WV	T
C707	ECEA1CUT102IV	Electrolytic 1000PF 16WV	T
C708	F2A1H1R0A019	Electrolytic 1pF 16WV	T
C713	F1J1C474A173	Ceramic 0.47MFD 16WV	T
C715	F1J1E104A161	Ceramic 0.1MFD 25WV	T
C716	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C717	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C718	F1J1E104A161	Ceramic 0.1MFD 25WV	T
C719	EEAFC1A820H	Electrolytic 82PF 10WV	T
C720	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C721	F1J1C104A148	Ceramic 0.1MFD 16WV	T
C730	F1K1E334A070	Ceramic 0.33MFD 25WV	T
C731	F1K1C334A070	Ceramic 0.33MFD 16WV	T
C732	EEAFC1C560H	Electrolytic 56PF 16WV	T
C752	F1J1C334A006	Ceramic 0.33MFD 16WV	T
C753	F1J1C334A006	Ceramic 0.33MFD 16WV	T
C754	EEAFC0J560H	Electrolytic 56PF 6.3WV	T
C755	F1H1C104A107	Ceramic 0.1MFD 16WV	T
C756	F1J1C105A173	Ceramic 1MFD 16WV	T
C757	F1H1E103A086	Ceramic 0.01MFD 25WV	T
C758	F2A0J470A020	Electrolytic 47pF 6.3WV	T
C760	F1H1E103A086	Ceramic 0.01MFD 25WV	T
C761	F1J1E104A161	Ceramic 0.1MFD 25WV	T
C762	F2A1C470A029	Electrolytic 47pF 16WV	T
C763	F1J1E104A161	Ceramic 0.1MFD 25WV	T
C771	F2A1C101A029	Electrolytic 100pF 16WV	T
C772	F1J1C104A005	Ceramic 0.1MFD 16WV	T
C773	F1J1H271A025	Chip 270pF 50WV	T
C774	EEEFK1E101P	Electrolytic 100PF 25WV	T
C775	F1H1C104A005	Ceramic 0.1MFD 16WV	T
C776	F2A1E101A011	Electrolytic 100pF 25WV	T
C777	F1J1H103A513	Ceramic 0.01MFD 50WV	T
C778	F2A1C100A029	Electrolytic 10pF 16WV	T
C791	EEAFC1C560H	Electrolytic 56PF 16WV	T
C792	F1K1C334A070	Ceramic 0.33MFD 16WV	T
C793	F1J1E334A161	Ceramic 0.33MFD 25WV	T
C797	F1J1C104A148	Ceramic 0.1MFD 16WV	T
RESISTORS			
J403	D0GFR00JA017	Chip 0 ohms 1/8W	T
J474	D0YFR00J0001	Chip 0 ohms 1/8W	T
J475	D0YFR00J0001	Chip 0 ohms 1/8W	T
J476	D0YFR00J0001	Chip 0 ohms 1/8W	T
J477	D0YFR00J0001	Chip 0 ohms 1/8W	T
J478	D0YFR00J0001	Chip 0 ohms 1/8W	T
J479	D0YFR00J0001	Chip 0 ohms 1/8W	T
J481	D0YFR00J0001	Chip 0 ohms 1/8W	T
J482	D0YFR00J0001	Chip 0 ohms 1/8W	T
J483	D0YFR00J0001	Chip 0 ohms 1/8W	T
J501	D0GFR00JA017	Chip 0 ohms 1/8W	T
J502	D0GFR00JA017	Chip 0 ohms 1/8W	T
J503	D0GFR00JA017	Chip 0 ohms 1/8W	T
J504	D0GFR00JA017	Chip 0 ohms 1/8W	T
J506	D0GFR00JA017	Chip 0 ohms 1/8W	T
J507	D0GFR00JA017	Chip 0 ohms 1/8W	T
J508	D0GFR00JA017	Chip 0 ohms 1/8W	T
J509	D0GFR00JA017	Chip 0 ohms 1/8W	T
J510	D0GFR00JA017	Chip 0 ohms 1/8W	T
J512	D0GFR00JA017	Chip 0 ohms 1/8W	T
J513	D0GFR00JA017	Chip 0 ohms 1/8W	T
J514	D0GFR00JA017	Chip 0 ohms 1/8W	T
J515	D0GFR00JA017	Chip 0 ohms 1/8W	T
J517	D0GFR00JA017	Chip 0 ohms 1/8W	T

Ref. No.	Part No.	Part Name & Description	Remarks
J523	D0YFR00J0001	Chip 0 ohms 1/8W	T
J524	D0YFR00J0001	Chip 0 ohms 1/8W	T
J525	D0YFR00J0001	Chip 0 ohms 1/8W	T
J526	D0YFR00J0001	Chip 0 ohms 1/8W	T
J529	D0YFR00J0001	Chip 0 ohms 1/8W	T
J531	D0YFR00J0001	Chip 0 ohms 1/8W	T
J534	D0YFR00J0001	Chip 0 ohms 1/8W	T
J536	D0YFR00J0001	Chip 0 ohms 1/8W	T
J537	D0YFR00J0001	Chip 0 ohms 1/8W	T
J538	D0YFR00J0001	Chip 0 ohms 1/8W	T
J539	D0YFR00J0001	Chip 0 ohms 1/8W	T
J540	D0YFR00J0001	Chip 0 ohms 1/8W	T
J542	D0YFR00J0001	Chip 0 ohms 1/8W	T
J544	D0YFR00J0001	Chip 0 ohms 1/8W	T
J545	D0YFR00J0001	Chip 0 ohms 1/8W	T
J546	D0YFR00J0001	Chip 0 ohms 1/8W	T
J550	D0YFR00J0001	Chip 0 ohms 1/8W	T
J551	D0YFR00J0001	Chip 0 ohms 1/8W	T
J552	D0YFR00J0001	Chip 0 ohms 1/8W	T
J553	D0YFR00J0001	Chip 0 ohms 1/8W	T
J554	D0YFR00J0001	Chip 0 ohms 1/8W	T
J555	D0GFR00JA017	Chip 0 ohms 1/8W	T
J556	D0YFR00J0001	Chip 0 ohms 1/8W	T
J560	D0GFR00JA017	Chip 0 ohms 1/8W	T
J561	D0GFR00JA017	Chip 0 ohms 1/8W	T
J563	D0YFR00J0001	Chip 0 ohms 1/8W	T
J565	D0YFR00J0001	Chip 0 ohms 1/8W	T
J570	D0YFR00J0001	Chip 0 ohms 1/8W	T
J571	D0YFR00J0001	Chip 0 ohms 1/8W	T
J573	D0YFR00J0001	Chip 0 ohms 1/8W	T
J579	D0GFR00JA017	Chip 0 ohms 1/8W	T
J580	D0YFR00J0001	Chip 0 ohms 1/8W	T
J582	D0GFR00JA017	Chip 0 ohms 1/8W	T
J583	D0GFR00JA017	Chip 0 ohms 1/8W	T
J590	D0GFR00JA017	Chip 0 ohms 1/8W	T
J591	D0GDR00JA017	Chip 0 ohms 1/10W	T
J592	D0YFR00J0001	Chip 0 ohms 1/8W	T
J593	D0YFR00J0001	Chip 0 ohms 1/8W	T
R50	D0GD5R6JA052	Chip 5.6 ohms 1/10W	T
R54	D0GD101JA017	Chip 100 ohms 1/10W	T
R55	D0GD221JA017	Chip 220 ohms 1/10W	T
R56	D0GD562JA017	Chip 5.6k ohms 1/10W	T
R59	D0GB104JA008	Chip 100k ohms 1/16W	T
R65	D0GD393JA017	Chip 39k ohms 1/10W	T
R202	D0GD152JA017	Chip 1.5k ohms 1/10W	T
R203	D0GD103JA017	Chip 10k ohms 1/10W	T
R213	D0GD562JA017	Chip 5.6k ohms 1/10W	T
R214	D0GD103JA017	Chip 10k ohms 1/10W	T
R215	D0GB472JA008	Chip 4.7k ohms 1/16W	T
R216	D0GB123JA008	Chip 12k ohms 1/16W	T
R217	D0GB183JA008	Chip 18k ohms 1/16W	T
R220	D0GB750JA008	Chip 75 ohms 1/16W	T
R221	D0GB153JA008	Chip 15k ohms 1/16W	T
R222	D0GBR00JA008	Chip 0 ohms 1/16W	T
R235	D0GB183JA008	Chip 18k ohms 1/16W	T
R237	D0GB271JA008	Chip 270k ohms 1/16W	T
R241	D0GB183JA008	Chip 18k ohms 1/16W	T
R242	D0GB271JA008	Chip 270k ohms 1/16W	T
R251	D0GB104JA008	Chip 100k ohms 1/16W	T
R252	D0GB393JA008	Chip 39k ohms 1/16W	T
R253	D0GB433JA065	Chip 43k ohms 1/16W	T
R254	D0GB560JA008	Chip 56 ohms 1/16W	T
R255	D0GB183JA008	Chip 18k ohms 1/16W	T
R256	D0GB104JA008	Chip 100k ohms 1/16W	T
R257	D0GB393JA008	Chip 39k ohms 1/16W	T
R258	D0GB433JA065	Chip 43k ohms 1/16W	T
R259	D0GB560JA008	Chip 56 ohms 1/16W	T
R260	D0GD183JA017	Chip 18k ohms 1/10W	T
R275	D0GF223JA017	Chip 22k ohms 1/8W	T
R296	D0GD271JA017	Chip 270 ohms 1/10W	T
R297	D0GD271JA017	Chip 270 ohms 1/10W	T
R302	D0GB152JA008	Chip 1.5k ohms 1/16W	T
R303	D0GB103JA008	Chip 10k ohms 1/16W	T

Ref. No.	Part No.	Part Name & Description	Remarks
R313	D0GD562JA017	Chip 5.6k ohms 1/10W	T
R314	D0GD103JA017	Chip 10k ohms 1/10W	T
R315	D0GB472JA008	Chip 4.7k ohms 1/16W	T
R316	D0GB123JA008	Chip 12k ohms 1/16W	T
R317	D0GB183JA008	Chip 18k ohms 1/16W	T
R320	D0GB750JA008	Chip 75 ohms 1/16W	T
R321	D0GB153JA008	Chip 15k ohms 1/16W	T
R322	D0GBR00JA008	Chip 0 ohms 1/16W	T
R323	D0GB102JA008	Chip 1k ohms 1/16W	T
R324	D0GB103JA008	Chip 10k ohms 1/16W	T
R325	D0GD102JA017	Chip 1k ohms 1/10W	T
R326	D0GD101JA017	Chip 100 ohms 1/10W	T
R327	D0GD823JA017	Chip 82k ohms 1/16W	T
R330	D0GD221JA017	Chip 220 ohms 1/10W	T
R335	D0GB183JA008	Chip 18k ohms 1/16W	T
R336	D0GB271JA008	Chip 270k ohms 1/16W	T
R341	D0GB183JA008	Chip 18k ohms 1/16W	T
R342	D0GB271JA008	Chip 270k ohms 1/16W	T
R351	D0GB104JA008	Chip 100k ohms 1/16W	T
R352	D0GB393JA008	Chip 39k ohms 1/16W	T
R353	D0GB433JA065	Chip 43k ohms 1/16W	T
R354	D0GB560JA008	Chip 56 ohms 1/16W	T
R355	D0GB183JA008	Chip 18k ohms 1/16W	T
R356	D0GB104JA008	Chip 100k ohms 1/16W	T
R357	D0GB393JA008	Chip 39k ohms 1/16W	T
R358	D0GB433JA065	Chip 43k ohms 1/16W	T
R359	D0GB560JA008	Chip 56 ohms 1/16W	T
R360	D0GB183JA008	Chip 18k ohms 1/16W	T
R361	D0GD104JA017	Chip 100k ohms 1/10W	T
R362	D0GD393JA017	Chip 39k ohms 1/10W	T
R363	D0GD393JA017	Chip 39k ohms 1/10W	T
R364	D0GD560JA017	Chip 56 ohms 1/10W	T
R365	D0GD183JA017	Chip 18k ohms 1/10W	T
R366	D0GD103JA017	Chip 10k ohms 1/10W	T
R367	D0GD103JA017	Chip 10k ohms 1/10W	T
R375	D0GD473JA017	Chip 47k ohms 1/10W	T
R376	D0GB103JA008	Chip 10k ohms 1/16W	T
R396	D0GD271JA017	Chip 270 ohms 1/10W	T
R397	D0GD271JA017	Chip 270 ohms 1/10W	T
R401	D0GB152JA008	Chip 1.5k ohms 1/16W	T
R402	D0GB472JA008	Chip 4.7k ohms 1/16W	T
R403	D0GB473JA008	Chip 47k ohms 1/16W	T
R404	D0GB102JA008	Chip 1k ohms 1/16W	T
R405	D0GB102JA008	Chip 1k ohms 1/16W	T
R406	D0GB102JA008	Chip 1k ohms 1/16W	T
R407	D0GB102JA008	Chip 1k ohms 1/16W	T
R408	D0GB473JA008	Chip 47k ohms 1/16W	T
R409	D0GB102JA008	Chip 1k ohms 1/16W	T
R410	D0GBR00JA008	Chip 0 ohms 1/16W	T
R411	D0GB221JA008	Chip 220 ohms 1/16W	T
R413	D0GD182JA017	Chip 1.8k ohms 1/10W	T
R414	D0GF561JA017	Chip 560 ohms 1/8W	T
R417	D0GB100JA008	Chip 10 ohms 1/16W	T
R600	D0YFR00J0001	Chip 0 ohms 1/8W	T
R601	D0GB432JA065	Chip 4.3k ohms 1/16W	T
R602	D0GB432JA065	Chip 4.3k ohms 1/16W	T
R603	D0GD103JA017	Chip 10k ohms 1/10W	T
R604	D0GD103JA017	Chip 10k ohms 1/10W	T
R605	D0GB102JA008	Chip 1k ohms 1/16W	T
R606	EXBV8V102JV	Chip 1k ohms 0.063W	T
R607	D0GB333JA008	Chip 33k ohms 1/16W	T
R608	D0GB822JA008	Chip 8.2k ohms 1/16W	T
R609	D0GB473JA008	Chip 47k ohms 1/16W	T
R610	D0GB223JA008	Chip 220 ohms 1/16W	T
R612	D0GB473JA008	Chip 47k ohms 1/16W	T
R613	D0GB103JA008	Chip 10k ohms 1/16W	T
R614	D0GB103JA008	Chip 10k ohms 1/16W	T
R615	D0GD103JA017	Chip 10k ohms 1/10W	T
R616	D0GB684JA008	Chip 680k ohms 1/16W	T
R617	D0GB103JA008	Chip 10k ohms 1/16W	T
R618	D0GB223JA008	Chip 220 ohms 1/16W	T
R619	D0GB473JA008	Chip 47k ohms 1/16W	T
R620	D0GB103JA008	Chip 10k ohms 1/16W	T

Ref. No.	Part No.	Part Name & Description	Remarks
R621	D0GB472JA008	Chip 4.7k ohms 1/16W	T
R622	D0GD473JA017	Chip 47k ohms 1/10W	T
R624	D0GB104JA008	Chip 100k ohms 1/16W	T
R625	D0GB473JA008	Chip 47k ohms 1/16W	T
R626	D0GD102JA017	Chip 1k ohms 1/10W	T
R627	D0GB103JA008	Chip 10k ohms 1/16W	T
R628	D0GB103JA008	Chip 10k ohms 1/16W	T
R629	D0GF104JA014	Chip 100k ohms 1/8W	T
R630	D0GD473JA017	Chip 47k ohms 1/10W	T
R631	D0GD821JA017	Chip 820 ohms 1/10W	T
R632	D0GD473JA017	Chip 47k ohms 1/10W	T
R634	D0GD471JA017	Chip 470 ohms 1/10W	T
R638	D0GB102JA008	Chip 1k ohms 1/16W	T
R639	D0GB471JA008	Chip 470 ohms 1/16W	T
R640	D0GD561JA017	Chip 560 ohms 1/10W	T
R641	D0GB102JA008	Chip 1k ohms 1/16W	T
R646	D0GB104JA008	Chip 100k ohms 1/16W	T
R653	D0GB512JA008	Chip 5.1k ohms 1/16W	T
R654	D0GD512JA017	Chip 5k ohms 1/8W	T
R655	D0GD103JA017	Chip 10k ohms 1/10W	T
R656	D0GD272JA017	Chip 2.7k ohms 1/10W	T
R657	D0GB272JA008	Chip 2.7k ohms 1/16W	T
R658	D0GD473JA017	Chip 47k ohms 1/10W	T
R659	D0GD272JA017	Chip 2.7k ohms 1/10W	T
R660	D0GD272JA017	Chip 2.7k ohms 1/10W	T
R661	D0GD473JA017	Chip 47k ohms 1/10W	T
R662	D0GB472JA008	Chip 4.7k ohms 1/16W	T
R663	D0GD512JA017	Chip 5k ohms 1/8W	T
R664	D0GD512JA017	Chip 5k ohms 1/8W	T
R670	D0GB104JA008	Chip 100k ohms 1/16W	T
R671	D0GB104JA008	Chip 100k ohms 1/16W	T
R673	D0GB104JA008	Chip 100k ohms 1/16W	T
R674	D0GB272JA008	Chip 2.7k ohms 1/16W	T
R675	D0GD272JA017	Chip 2.7k ohms 1/10W	T
R676	D0GB472JA008	Chip 4.7k ohms 1/16W	T
R677	D0GD561JA017	Chip 560 ohms 1/10W	T
R678	D0GB104JA008	Chip 100k ohms 1/16W	T
R680	D0GD271JA017	Chip 270 ohms 1/10W	T
R681	D0GD562JA017	Chip 5.6k ohms 1/10W	T
R682	D0GB473JA008	Chip 47k ohms 1/16W	T
R684	D0GD561JA017	Chip 560 ohms 1/10W	T
R685	D0GB561JA008	Chip 560 ohms 1/16W	T
R686	D0GB561JA008	Chip 560 ohms 1/16W	T
R687	D0GD561JA017	Chip 560 ohms 1/10W	T
R688	D0GD561JA017	Chip 560 ohms 1/10W	T
R689	D0GB561JA008	Chip 560 ohms 1/16W	T
R690	D0GB561JA008	Chip 560 ohms 1/16W	T
R700	D0GD153JA017	Chip 15k ohms 1/10W	T
R701	D0GD102JA017	Chip 1k ohms 1/10W	T
R702	D0GB224JA008	Chip 220k ohms 1/16W	T
R703	D0GD473JA017	Chip 47k ohms 1/10W	T
R704	D0GF1R0JA017	Chip 1 ohms 1/8W	T
R705	D0GD682JA017	Chip 6.8k ohms 1/10W	T
R715	D0GB472JA008	Chip 4.7k ohms 1/16W	T
R716	D0GD473JA017	Chip 47k ohms 1/10W	T
R717	D0GB433JA065	Chip 43k ohms 1/16W	T
R719	D0GB564JA008	Chip 560k ohms 1/16W	T
R722	D0GB823JA008	Chip 82k ohms 1/16W	T
R732	D1BD1002A030	Chip 10k ohms 1/10W	T
R734	D1BD1541A066	Chip 1.5k ohms 1/10W	T
R755	D0GD102JA017	Chip 1k ohms 1/10W	T
R760	D0GD152JA017	Chip 1.5k ohms 1/10W	T
R771	D0GFR47JA016	Chip 47 ohms 1/8W	T
R772	D0GB181JA008	Chip 180 ohms 1/16W	T
R773	D1BD1802A066	Chip 18k ohms 1/10W	T
R774	D1BD1541A066	Chip 1.5k ohms 1/10W	T
R776	D0GD561JA017	Chip 560 ohms 1/10W	T
R778	D0GF1R0JA017	Chip 1 ohms 1/8W	T
R779	D0YFR00J0001	Chip 0 ohms 1/8W	T
R780	D0GF470JA048	Chip 47 ohms 1/8W	T
R790	D0GB223JA008	Chip 220 ohms 1/16W	T
R791	D0GD223JA017	Chip 22k ohms 1/10W	T
R795	D1BD1002A030	Chip 10k ohms 1/10W	T

Ref. No.	Part No.	Part Name & Description	Remarks
R796	D1BD2703A030	Chip 270k ohms 1/10W	T
R797	D1BD2201A030	Chip 2.2k ohms 1/10W	T
CONNECTORS			
CN201	YEA44CRCA054	Connector	T
CN253	YEA44CRCA066	Connector	T
CN351	YEA44CRCA053	Connector	T
CN361	K1KA08A00015	Connector	T
CN361	K1KA08A00015	Connector	T
CN371	K1KB08B00005	Connector	T
CN600	K1KB08AA0201	Connector	T
CN601	K1MN16BA0111	Connector	T
CN651	YEA4970818CT	Connector	T
CN670	K1PQ07A00005	Connector	T
CN680	K1AA113B0002	Connector	T
CN701	K1FA116B0028	Connector	T
CN760	K1KA02AA0229	Connector	T
COILS			
L50	G1C150K00011	Coil	T
L052	G1CR56JA0036	Coil	T
L401	G1C101JA0036	Coil	T
L601	G1C330JA0036	Coil	T
L602	G1C101JA0036	Coil	T
L603	G1C330JA0036	Coil	T
L702	G0A151J00006	Coil	T
L771	G1C331MA0226	RF Coil	T
L772	G0C101KA0120	RF Coil	T
SWITCHES			
SW601	K0L1BA000099	Push Switch	T
SW602	K0L1BA000104	Push Switch	T
CRYSTALS			
XL602	H0J327200161	Crystal	T
FILTERS			
Z50	D4ZZ00000024	Surge Protector	T
[E-4C310] Display Block			
IC's AND TRANSISTORS			
IC900	YEAMB90488BP	IC	T
IC901	YEAMS29AL016	IC	T
IC903	B3RAB0000054	Sensor	T
Q902	B1GDCFNN0002	Transistor	T
Q903	B1GBCFNN0004	Transistor	T
Q940	B1GDGFEH0001	Transistor	T
Q941	B1GDGFEH0001	Transistor	T
Q942	B1GBCFJN0004	Transistor	T
Q943	B1GBCFJN0004	Transistor	T
DIODES			
D901	B0BC5R600010	Zener Diode	T
D902	MA2J72900L	Diode	T
D903	B0BC5R600010	Zener Diode	T
D904	B0BC5R600010	Zener Diode	T
D905	B0BC5R600010	Zener Diode	T
D907	B3AEB0000088	LED(BLUE)	T
D909	MA3X152E0L	Diode	T
D921	B3AEB0000088	LED(BLUE)	T
D922	B3AEB0000088	LED(BLUE)	T
D923	B3AEB0000088	LED(BLUE)	T
D924	B3AEB0000088	LED(BLUE)	T
D925	B3AEB0000088	LED(BLUE)	T
D926	B3AEB0000088	LED(BLUE)	T
D927	B3AEB0000088	LED(BLUE)	T
D928	B3AEB0000088	LED(BLUE)	T

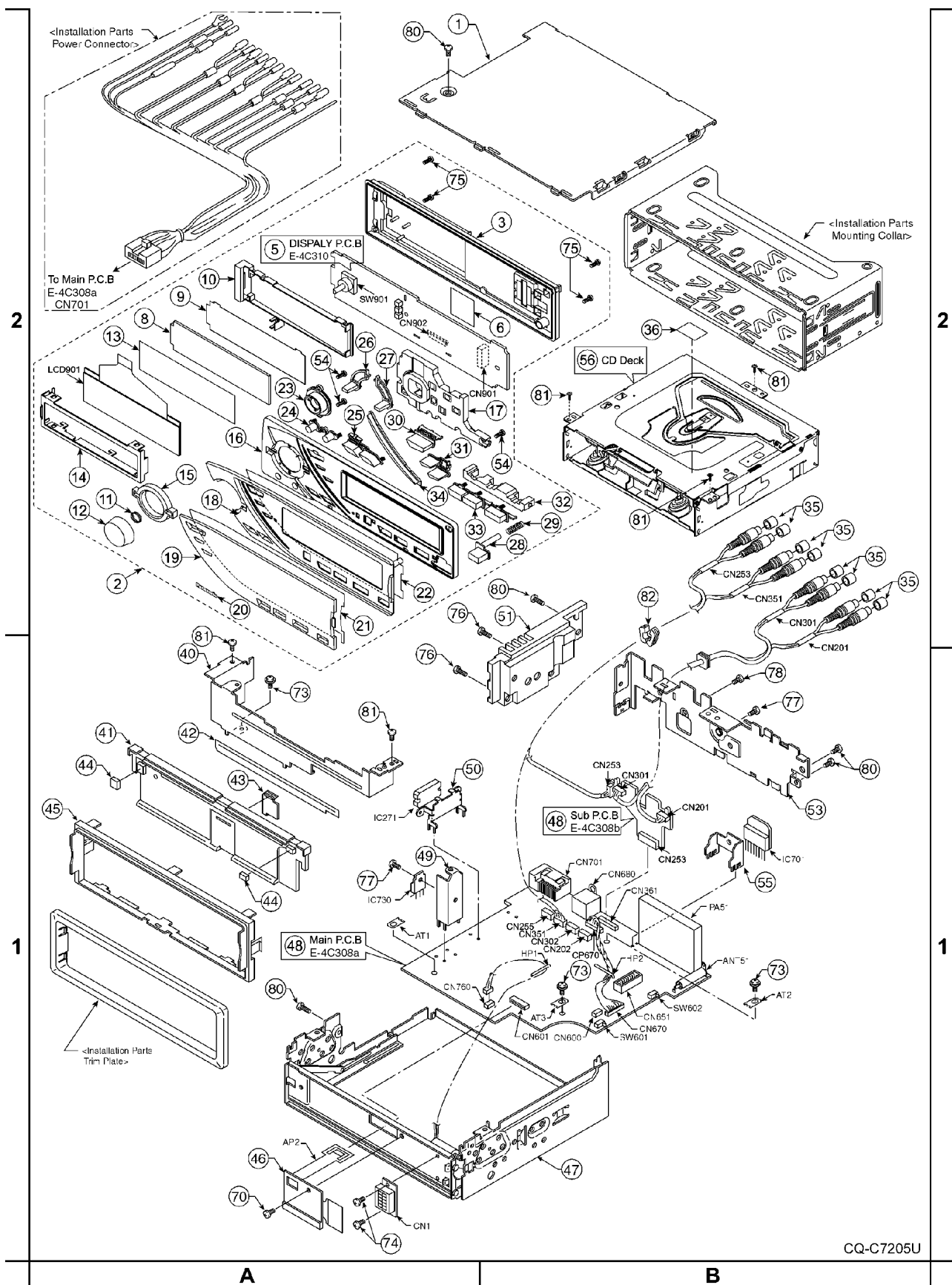
Ref. No.	Part No.	Part Name & Description	Remarks
D929	B3AEB0000088	LED (BLUE)	T
D930	B3AEB0000088	LED (BLUE)	T
D931	B3AEB0000088	LED (BLUE)	T
D932	B3AEB0000088	LED (BLUE)	T
D935	B3AZB0000049	LED	T
D936	B3AZB0000049	LED	T
D937	B3AZB0000049	LED	T
CAPACITORS			
C902	F1H1C104A107	Ceramic 0.1MFD 16WV	T
C903	F1H1C104A107	Ceramic 0.1MFD 16WV	T
C904	ECUV106K06AT	Ceramic 10MFD 6WV	T
C908	F1H1C104A107	Ceramic 0.1MFD 16WV	T
C910	F1H1C104A107	Ceramic 0.1MFD 16WV	T
C911	F1H1C104A107	Ceramic 0.1MFD 16WV	T
C912	ECUV106K06AT	Ceramic 10MFD 6WV	T
C913	F1H1C104A107	Ceramic 0.1MFD 16WV	T
C914	ECUV106K06AT	Ceramic 10MFD 6WV	T
C916	F1H1H102A842	Ceramic 1000pF 50WV	T
C919	F1H1C104A107	Ceramic 0.1MFD 16WV	T
C928	F1H1H103A842	Ceramic 0.01MFD 50WV	T
C929	F1H1C104A107	Ceramic 0.1MFD 16WV	T
C931	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C932	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C933	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C934	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C935	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C936	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C937	F1K1C225A070	Ceramic 2.2MFD 16WV	T
C938	F1H1C104A107	Ceramic 0.1MFD 16WV	T
C939	ECUV106K06AT	Ceramic 10MFD 6WV	T
C940	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C941	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C942	F1J1A225A063	Ceramic 2.2MFD 10WV	T
C973	F1H1H103A842	Ceramic 0.01MFD 50WV	T
C974	F1H1H103A842	Ceramic 0.01MFD 50WV	T
RESISTORS			
R902	D0GB332JA008	Chip 3.3k ohms 1/16W	T
R903	D0GB103JA008	Chip 10k ohms 1/16W	T
R904	D0GB103JA008	Chip 10k ohms 1/16W	T
R905	D0GB103JA008	Chip 10k ohms 1/16W	T
R910	D0GFR00JA017	Chip 0 ohms 1/8W	T
R911	D0GB222JA008	Chip 2.2k ohms 1/16W	T
R912	D0GB222JA008	Chip 2.2k ohms 1/16W	T
R913	D0GB222JA008	Chip 2.2k ohms 1/16W	T
R914	D0GB222JA008	Chip 2.2k ohms 1/16W	T
R916	D0GB184JA008	Chip 180k ohms 1/16W	T
R917	D0GB184JA008	Chip 180k ohms 1/16W	T
R918	D0GB184JA008	Chip 180k ohms 1/16W	T
R919	D0GB473JA008	Chip 47k ohms 1/16W	T
R923	D0GB473JA008	Chip 47k ohms 1/16W	T
R924	D0GB104JA008	Chip 100k ohms 1/16W	T
R925	D0GB302JA008	Chip 3k ohms 1/16W	T
R926	D0GB102JA008	Chip 1k ohms 1/16W	T
R927	D0GB102JA008	Chip 1k ohms 1/16W	T
R928	D0GB222JA008	Chip 2.2k ohms 1/16W	T
R929	D0GB122JA008	Chip 1.2k ohms 1/16W	T
R932	D0GB101JA008	Chip 100 ohms 1/16W	T
R933	D0GB821JA008	Chip 820 ohms 1/16W	T
R934	D0GB102JA008	Chip 1k ohms 1/16W	T
R935	D0GB102JA008	Chip 1k ohms 1/16W	T
R936	D0GB473JA008	Chip 47k ohms 1/16W	T
R937	D0GB473JA008	Chip 47k ohms 1/16W	T
R938	D0GF201JA017	Chip 200 ohms 1/8W	T
R939	D0GF201JA017	Chip 200 ohms 1/8W	T
R940	D0GF201JA017	Chip 200 ohms 1/8W	T
R948	D0GD820JA017	Chip 82 ohms 1/10W	T
R949	D0GD151JA017	Chip 150 ohms 1/10W	T
R950	D0GB103JA008	Chip 10k ohms 1/16W	T
R955	D0GB561JA008	Chip 560 ohms 1/16W	T

Ref. No.	Part No.	Part Name & Description	Remarks
R956	D0GB102JA008	Chip 1k ohms 1/16W	T
R958	D0GB561JA008	Chip 560 ohms 1/16W	T
R959	D0GB102JA008	Chip 1k ohms 1/16W	T
R961	D0GB561JA008	Chip 560 ohms 1/16W	T
R962	D0GB102JA008	Chip 1k ohms 1/16W	T
R965	D0GB561JA008	Chip 560 ohms 1/16W	T
R966	D0GB102JA008	Chip 1k ohms 1/16W	T
R969	D0GB473JA008	Chip 47k ohms 1/16W	T
R970	D0GB103JA008	Chip 10k ohms 1/16W	T
R971	D0GB103JA008	Chip 10k ohms 1/16W	T
CONNECTORS			
CN901	K1NZ16DA0001	Connector	T
CN902	K1MN30BA0109	Connector	T
CN903	K1MN08BA0134	Connector	T
SWITCHes			
SW901	K9AA024A0013	Encoder	T
SW902	K0H1BA000445	Tack Swich	T
SW903	K0H1BA000445	Tack Swich	T
SW905	K0H1BA000445	Tack Swich	T
SW906	K0H1BA000445	Tack Swich	T
SW907	K0H1BA000445	Tack Swich	T
SW908	K0H1BA000445	Tack Swich	T
SW909	K0H1BA000445	Tack Swich	T
SW910	K0H1BA000445	Tack Swich	T
SW911	K0H1BA000445	Tack Swich	T
SW912	K0H1BA000445	Tack Swich	T
SW913	K0H1BA000445	Tack Swich	T
SW914	K0H1BA000445	Tack Swich	T
CRYSTALS			
XL900	H2C122500003	Crystal	T
LCD			
LCD	L5F000000010	LCD	T
Accessories			
PRINTINGS			
	YFM284C662CA	Operating Instructions	T
	YFM284C663CA	Upgrade Instructions	T
	YFM294C091CA	Installation Instructions	T
INSTALLATION PARTS			
	EUR7641010	Remote Control Unit	T
	FX0214C384ZB	Mounting Collar	T
	YEF051013	Trim Plate	T
	YEP0FZ5739	Installation Kit	T
	YFG044C002ZA	Rear Support Strap	T
	YGAJ021009	Power Connector	T
	ZZUNIT-C8403	Removable Face Plate Case	T
	YEP0FZ5738	Security Screw Kit	T
Mechanical Parts			
MISCELLANEOUS			
ANT51	YEEA094C008	Ant Jack	T(1-B)
AP2	YEAFFPC032	FFC Line	T(1-A)
AT1	K4ZZ01000048	Terminal	T(1-A)
AT2	K4ZZ01000048	Terminal	T(1-B)
AT3	K4ZZ01000048	Terminal	T(1-B)
HP1	K4ZZ01000235	Terminal	T(1-B)
HP2	K4ZZ01000239	Terminal	T(1-B)
CN1	K1NZ16H00002	Connector	T(1-A)
1	YEF031898A	Top Cover	T(2-B)
2	ESCC7205U-J	Removable Face Plate Unit	T(2-A)/RTL

Ref. No.	Part No.	Part Name & Description	Remarks
3	YFC034C095CA	Rear Cover	T(2-A)
5	APCB310-J	Display PCB Assy	T(2-A)/RTL
6	YFV024C119CA	Sheet(FPC)	T(2-A)
8	YEFX0013087	LCD Backlight(3DDM)	T(2-A)
9	YFV024C118CA	Sheet(LCD)	T(2-A)
10	YFX184C027CA	LCD Holder(3DDM)	T(2-A)
11	YFX054C073CB	Spring (KNOB)	T(2-A)
12	YFE074C070CA	Vol Knob	T(2-A)
13	YFV024C117CA	Sheet(LCD)	T(2-A)
14	YFX214C449CA	LCD Bracket	T(2-A)
15	YFJ014C215CA	VOL LINK	T(2-A)
16	YFC034C068CA	Front Cover(Print)	T(2-A)
17	YFX014C098CA	Optical Guidance Plate-L	T(2-A)
18	YFJ014C230CA	FRAME(PRINT)	T(2-A)
19	YFJ014C236CA	Panel(Print)	T(2-A)
20	YEFN07041	Badge Panasonic	T(2-A)
21	YFX994C141CA	Double Faced Tape	T(2-A)
22	YFX994C140CA	Double Faced Tape	T(2-A)
23	YFX014C100CA	VOL Plate B	T(2-A)
24	YFE134C546CA	Button(DM/MUTE)	T(2-A)
25	YFE134C548CA	DISC Button(UP/DOWN)	T(2-A)
26	YFE134C550CA	TUNE UP Button(L)	T(2-A)
27	YFE134C551CA	TUNE DOWN Button(R)	T(2-A)
28	YFE134C552CA	Button (RELEASE)	T(2-A)
29	YEFX0053122	Spring	T(2-B)
30	YFE134C545CA	Button(SRC)	T(2-A)
31	YFE134C549CA	Button(MENU/SQ)	T(2-A)
32	YFX014C099CA	Optical Guidance Plate-R	T(2-A)
33	YFE134C547CA	Button(BAND/DISP/EJ)	T(2-A)
34	YFX014C097CA	Indicator_ARC	T(2-A)
35	YFR044C013ZA	RCA Cap	T(2-B)
36	YFM024C524CA	Laser Note Seal	T(2-B)
40	YEFA07669	Front Plate	T(1-A)
41	YEF0266429	ESC Base	T(1-A)
42	YEF022538	Dust Felt	T(1-A)
43	YEFX0013249	Indicator Plate(CD)	T(1-A)
44	YEF012500	Pad	T(1-A)
45	YEF0266428	ESC Trim	T(1-A)
46	YEFA134132	Connector Cover	T(1-A)
47	YEP9FX352A	Panel Mecha Drive Unit	T(1-B)
48	AAPB308G0-J	Main/Sub PCB Ass'y	T(1-B)/RTL
49	YEFX0216269	Regulator Bracket(A)	T(1-A)
50	YEFX0213945B	Power IC Bracket	T(1-A)
51	YEFF012035A	Heat Sink	T(1-B)
53	YEFA081009	Rear Plate	T(1-B)
54	XQN2+BG6FJ	Screw	T(2-A)
55	YEFX0217229	IC Bracket	T(1-B)
56	YGFD044C006	CD Deck	T(2-B)
70	YEJS06404A	Screw	T(1-A)
73	YEJT03333A	Screw	T(1-B)
74	XQN2+C4FJK	Screw	T(1-A)
75	XQN2+BG8FJK	Screw	T(2-A)
76	XSB3+14FJ	Screw	T(1-A)
77	XSB3+6FJ	Screw	T(1-B)
78	XSB26+8FJ	Screw	T(1-B)
80	XTB3+6FFJ	Screw	T(1-B)
81	XTB26+6FFJ	Screw	T(2-B)
82	YEFX007685	Wire Clamper	T(2-B)

15 EXPLODED VIEW (Unit)

■ Numbers in ○ are indicated REF.No.in the REPLACEMENT PARTS LIST



16 CD PLAYER PARTS LIST

Notes :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice: Components, identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Location keys in the remarks column indicates the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
 - Order intake period is basically six months after the first shipment.

Ref. No.	Part No.	Part Name & Description	Remarks
[3032-14-46] CD Servo Block			
IC's and TRANSISTORS			
IC101	MN6627971TA	IC	
IC201	BA5834FM-E2	IC	
Q101	KTA1663-Y-RTF/P	Transistor	
DIODES			
D103	1SS400 TE61	Diode	
CAPACITORS			
C301	GRM1882C1H221J	Caramic, 220pF, 50WV	
C302	GRM1882C1H221J	Caramic, 220pF, 50WV	
C108	GRM1882C1H681J	Caramic, 680pF, 50WV	
C307	GRM1882C1H681J	Caramic, 680pF, 50WV	
C308	GRM1882C1H681J	Caramic, 680pF, 50WV	
C205	GRM1882C1H821J	Caramic, 820pF, 50WV	
C111	GRM188B11H102K	Caramic, 1000pF, 50WV	
C114	GRM188B11H102K	Caramic, 1000pF, 50WV	
C204	GRM188B11H222K	Caramic, 2200pF, 50WV	
C105	GRM188B11H332K	Caramic, 3300pF, 50WV	
C202	GRM188B11H682KA01D	Caramic, 6800pF, 50WV	
C124	GRM188B11H103K	Caramic, 0.01uF, 50WV	
C303	GRM188B11H103K	Caramic, 0.01uF, 50WV	
C304	GRM188B11H103K	Caramic, 0.01uF, 50WV	
C120	GRM188B11H153K	Caramic, 0.015uF, 50WV	
C104	GRM188B11H223K	Caramic, 0.022uF, 50WV	
C201	GRM188B11H223K	Caramic, 0.022uF, 50WV	
C112	CM105X7R823K16AT	Caramic, 0.082uF, 16WV	
C101	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C102	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C103	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C107	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C110	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C115	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C116	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C117	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C118	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C119	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C121	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C122	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C127	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C128	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C206	GRM188B31H104K	Caramic, 0.1uF, 50WV	

Ref. No.	Part No.	Part Name & Description	Remarks
C309	GRM188B31H104K	Caramic, 0.1uF, 50WV	
C113	GRM188B11H334K	Caramic, 0.33uF, 50WV	
C106	GRM188B11H334K	Caramic, 0.33uF, 50WV	
C164	CM21X5R105K16AT	Caramic, 1uF, 16WV	
C109	CM21X5R475K06AT	Caramic, 4.7uF, 6.3WV	
C163	GM21B106K06AT	Caramic, 10uF, 6.3WV	
C305	GM21B106K06AT	Caramic, 10uF, 6.3WV	
C306	GM21B106K06AT	Caramic, 10uF, 6.3WV	
C151	UWX0J470MCL1GB	Electrolytic, 47uF, 6.3WV	
C152	UWX0J470MCL1GB	Electrolytic, 47uF, 6.3WV	
C156	UWX0J470MCL1GB	Electrolytic, 47uF, 6.3WV	
C159	UWX0J470MCL1GB	Electrolytic, 47uF, 6.3WV	
C160	UWX0J470MCL1GB	Electrolytic, 47uF, 6.3WV	
C161	UWX0J470MCL1GB	Electrolytic, 47uF, 6.3WV	
C153	UWX1C101MCL1GB	Electrolytic, 100uF, 16WV	
C154	UWX1C101MCL1GB	Electrolytic, 100uF, 16WV	
C351	UWX1C101MCL1GB	Electrolytic, 100uF, 16WV	
C251	UWX1A221MCL1GB	Electrolytic, 220uF, 10WV	
C252	UWX1A221MCL1GB	Electrolytic, 220uF, 10WV	
C352	UWX1A221MCL1GB	Electrolytic, 220uF, 10WV	

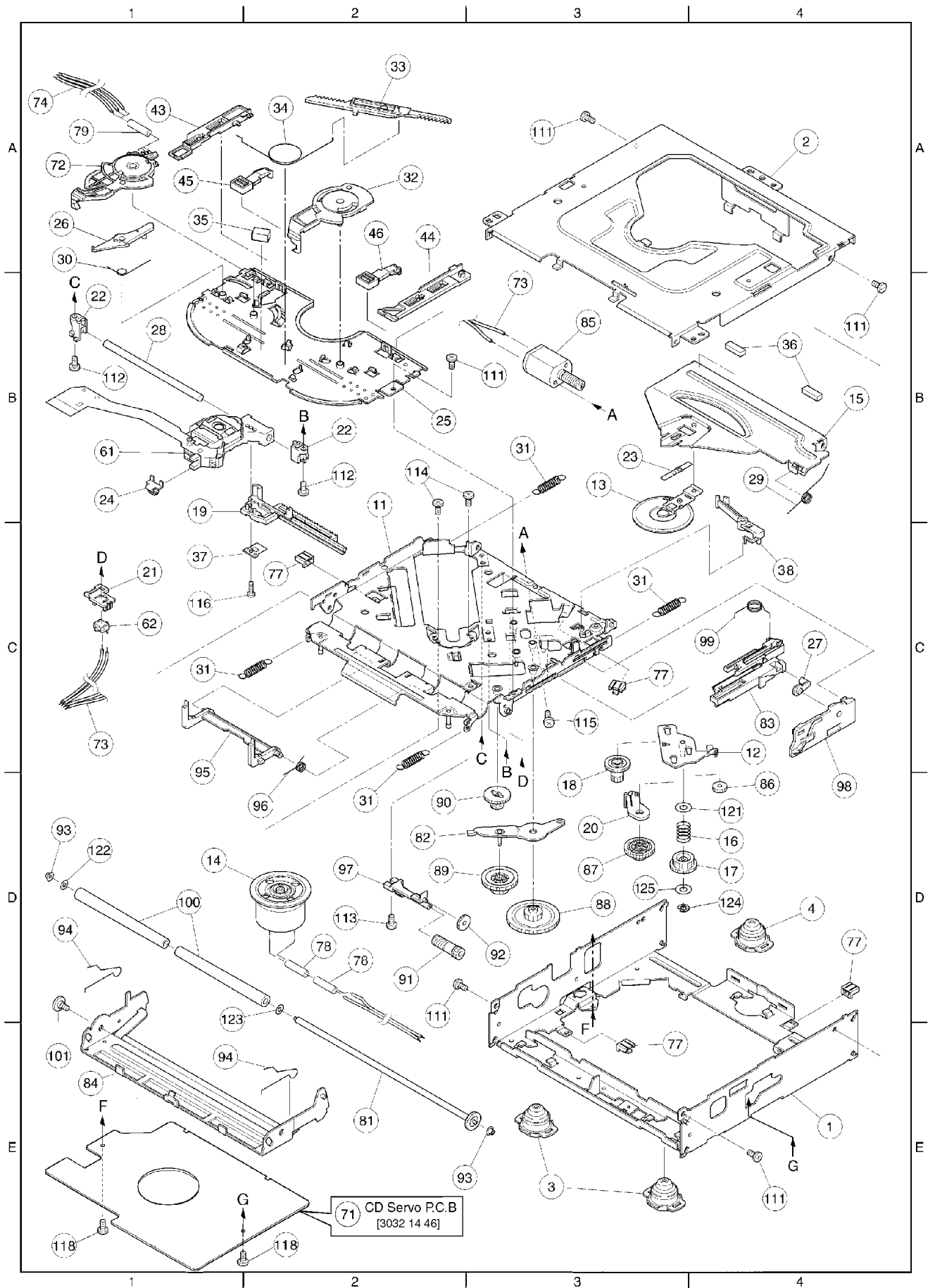
RESISTORS

L201	RK73Z2ATTD	CHIP , 0 ohm, 1/8W	
R101	RK73B1JTTD 4R7J	CHIP , 4.7 ohm, 1/10W	
R102	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R103	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R104	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R105	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R143	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R145	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R156	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R158	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R159	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R162	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R168	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R170	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R172	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R205	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R215	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R307	RK73Z1JTTD	CHIP , 0 ohm, 1/10W	
R115	RK73B1JTTD 101J	CHIP , 100 ohm, 1/10W	
R148	RK73B1JTTD 101J	CHIP , 100 ohm, 1/10W	
R149	RK73B1JTTD 101J	CHIP , 100 ohm, 1/10W	
R150	RK73B1JTTD 101J	CHIP , 100 ohm, 1/10W	
R151	RK73B1JTTD 101J	CHIP , 100 ohm, 1/10W	
R152	RK73B1JTTD 101J	CHIP , 100 ohm, 1/10W	
R147	RK73B1JTTD 221J	CHIP , 220 ohm, 1/10W	
R163	RK73B1JTTD 221J	CHIP , 220 ohm, 1/10W	
R164	RK73B1JTTD 221J	CHIP , 220 ohm, 1/10W	
R301	RK73B1JTTD 331J	CHIP , 330 ohm, 1/10W	
R302	RK73B1JTTD 331J	CHIP , 330 ohm, 1/10W	
R112	RK73B1JTTD 821J	CHIP , 820 ohm, 1/10W	
R213	RK73B1JTTD 102J	CHIP , 1K ohm, 1/10W	
R303	RK73B1JTTD 102J	CHIP , 1K ohm, 1/10W	
R304	RK73B1JTTD 102J	CHIP , 1K ohm, 1/10W	
R113	RK73B1JTTD 272J	CHIP , 2.7K ohm, 1/10W	
R214	RK73B1JTTD 272J	CHIP , 2.7K ohm, 1/10W	
R120	RK73B1JTTD 332J	CHIP , 3.3K ohm, 1/10W	
R121	RK73B1JTTD 332J	CHIP , 3.3K ohm, 1/10W	
R122	RK73B1JTTD 472J	CHIP , 4.7K ohm, 1/10W	
R202	RK73B1JTTD 472J	CHIP , 4.7K ohm, 1/10W	
R210	RK73B1JTTD 562J	CHIP , 5.6K ohm, 1/10W	
R211	RK73B1JTTD 562J	CHIP , 5.6K ohm, 1/10W	
R212	RK73B1JTTD 562J	CHIP , 5.6K ohm, 1/10W	
R216	RK73B1JTTD 562J	CHIP , 5.6K ohm, 1/10W	
R206	RK73B1JTTD 822J	CHIP , 8.2K ohm, 1/10W	
R117	RK73B1JTTD 103J	CHIP , 10K ohm, 1/10W	
R119	RK73B1JTTD 103J	CHIP , 10K ohm, 1/10W	
R124	RK73B1JTTD 103J	CHIP , 10K ohm, 1/10W	
R126	RK73B1JTTD 103J	CHIP , 10K ohm, 1/10W	
R127	RK73B1JTTD 103J	CHIP , 10K ohm, 1/10W	
R166	RK73B1JTTD 103J	CHIP , 10K ohm, 1/10W	

Ref. No.	Part No.	Part Name & Description	Remarks
R167	RK73B1JTTD 103J	CHIP, 10K ohm, 1/10W	
R204	RK73B1JTTD 153J	CHIP, 15K ohm, 1/10W	
R125	RK73B1JTTD 223J	CHIP, 22K ohm, 1/10W	
R201	RK73B1JTTD 223J	CHIP, 22K ohm, 1/10W	
R207	RK73B1JTTD 223J	CHIP, 22K ohm, 1/10W	
R208	RK73B1JTTD 333J	CHIP, 33K ohm, 1/10W	
R135	RK73B1JTTD 333J	CHIP, 33K ohm, 1/10W	
R209	RK73B1JTTD 393J	CHIP, 39K ohm, 1/10W	
R146	RK73B1JTTD 473J	CHIP, 47K ohm, 1/10W	
R225	RK73B1JTTD 473J	CHIP, 47K ohm, 1/10W	
R226	RK73B1JTTD 473J	CHIP, 47K ohm, 1/10W	
R305	RK73B1JTTD 473J	CHIP, 47K ohm, 1/10W	
R306	RK73B1JTTD 473J	CHIP, 47K ohm, 1/10W	
R219	RK73B1JTTD 563J	CHIP, 56K ohm, 1/10W	
R111	RK73B1JTTD 823J	CHIP, 82K ohm, 1/10W	
R114	RK73B1JTTD 105J	CHIP, 1M ohm, 1/10W	
CONNECTORS			
CN101	IMSA-9707S-18Y931	Connector, 18P	
CN102	IMSA-9616S-16Y931	Connector, 16P	
COILS			
L101	BK2125HS431-T	Inductor	
L303	LB2016T 101M	Inductor	
L301	LB2518T102M	Inductor	
L302	LB2518T102M	Inductor	
CRYSTALS			
X101	CSTCE16M9V53-R0	Crystal	
MECAHNICAL PARTS			
MISCELLANEOUS			
1	3032 01 36	Frame	(4-E)
2	3032 01 37	Top Cover	(4-A)
3	3032 01 15	Damper F	(3-E)
4	3032 01 16	Damper R	(4-D)
11	3032 05 510	Chassis Rivet Ass'y	(2-B)
12	3032 05 504	Change Plate Rivet Ass'y	(4-C)
13	3032 05 301	Clamper Ass'y	(3-B)
14	3032 05 316	Spindle Motor Ass'y	(1-D)
15	3032 05 56	Clamper Arm	(4-B)
16	3032 05 03	Change Gear Spring	(4-D)
17	3032 05 05	Change Gear 2	(4-D)
18	3032 05 06	Feed Gear	(3-D)
19	3032 05 51	Feed Rack	(2-B)
20	3032 05 53	Changer Lock Lever	(3-D)
21	3032 05 57	Feed Switch Holder	(1-C)
22	3032 05 54	Pick-up Shaft Holder	(1-B)
23	3032 05 13	Clamper Sub Spring	(3-B)
24	3032 05 58	FD Sub Holder	(2-B)
25	3032 05 65	Top Plate	(2-B)
26	3032 05 19	Select Lock Arm	(1-A)
27	3032 05 21	Slide Hook	(4-C)
28	3032 05 55	Pick-up Shaft	(2-B)
29	3032 05 59	Clamper Arm Spring	(4-B)
30	3032 05 26	Select Lock Arm Spring	(1-A)
31	3032 05 62	Suspension Spring	(3-B)
32	3032 05 64	Select Arm R	(2-A)
33	3032 05 30	Link Plate	(2-A)
34	3032 05 36	Link Plate Spring	(2-A)
35	3032 05 23	Cushion F	(1-A)
36	3032 05 24	Cushion R	(4-B)
37	3032 05 63	Feed Spring Plate	(1-C)
38	3032 05 61	Trigger Arm	(4-C)
43	3032 08 03	Select Plate L	(1-A)
44	3032 08 04	Select Plate R	(2-A)
45	3032 08 05	Select Piece R	(1-A)
46	3032 08 06	Select Piece L	(2-A)
61	6904 16 13	Optical Pick-up Ass'y	(2-B)

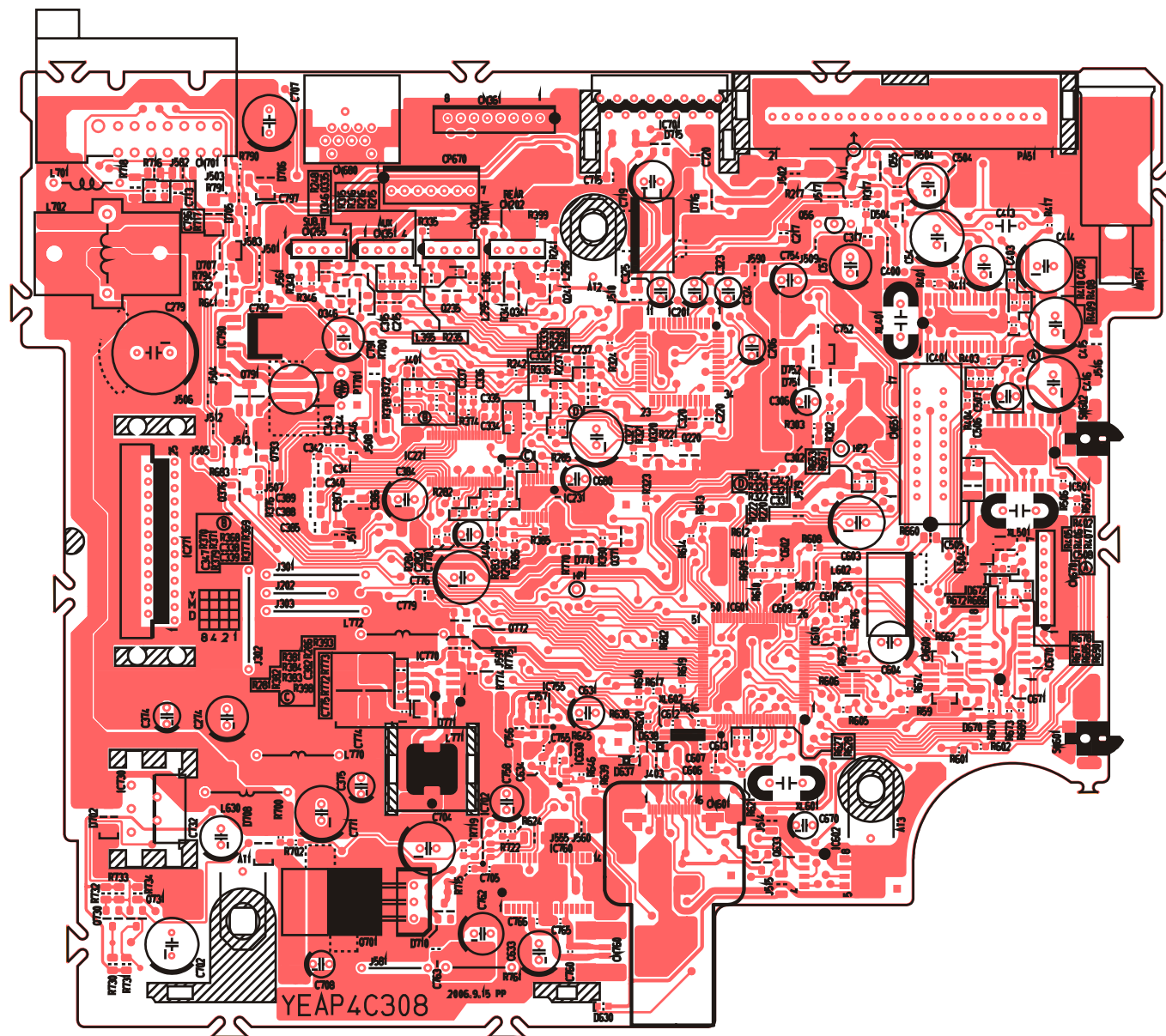
Ref. No.	Part No.	Part Name & Description	Remarks
62	6418 04 07	Detection Switch	(1-C)
71	3032 14 344	Servo PC Board w/component	(2E)RTL
72	3032 10 02	Mode Switch	(1-A)
73	3032 10 41	Loding Motor Wire	(3-B)
74	3032 10 40	Mode Switch Wire	(1-A)
77	3032 10 13	Wire Clamper M	(2-C)
78	3032 10 28	WIRE TUBE SPM	(2-D)
79	3032 10 29	Wire Tube MSW	(1-A)
81	3032 11 301	Roller Shaft Ass'y	(2-E)
82	3032 11 501	Loading Gear Plate Rivet Ass'y	(2-D)
83	3032 11 302	Loading Plate Ass'y	(4-C)
84	3032 11 504	Lock Arm Rivet Ass'y	(1-E)
85	3032 11 311	Loading/Feed Motor Ass'y	(3-B)
86	3032 11 01	Loading Gear 1	(4-D)
87	3032 11 02	Loading Gear 2	(3-D)
88	3032 11 03	Loading Gear 3	(3-D)
89	3032 11 04	Loading Gear 4	(2-D)
90	3032 11 05	Loading Gear 5	(2-D)
91	3032 11 06	Loading Gear 6	(2-D)
92	3032 11 07	Loading Gear 7	(2-D)
93	3032 11 49	Roller Guide	(1-D)
94	3032 11 14	Roller Guide Spring	(1-D)
95	3032 11 16	Disc Stopper Arm	(1-C)
96	3032 11 17	Disc Stop Arm Spring	(2-D)
97	3032 11 18	LD Gear Bracket	(2-D)
98	3032 11 25	L Slide Plate	(4-D)
99	3032 11 31	Loading Plate Spring	(4-C)
100	3032 11 37	Loading Roller	(1-D)
101	3032 11 43	Collar Screw	(1-E)
111	9P04 20 031	Tapping Screw 2*3	(3-A)
112	9P04 20 041	Tapping Screw 2*4	(2-B)
113	9B23 20 041	Tapping Bind Screw, 2*4	(2-D)
114	9C01 17 183	Camera Screw, 1.7*1.8	(2-B)
115	9C01 20 203	Camera Screw, 2*2	(3-C)
116	9C45 17 503	Camera Tapping Screw, 1.7*5	(1-C)
118	9C23-20-401	Screw, 2*4	(1-E)
121	9W01 30 170	P Washer, 3.5*8*0.3	(4-D)
122	9W26 20 170	HL Washer, 1.85*5*0.13	(1-D)
123	9W07 10 010	Lumilar Washer, 3.1*6*0.1	(2-D)
124	9E01 00 152	E-Ring S 1.5	(4-D)
125	9W01 13 020	P Washer, 2.1*4*0.13	(3-D)

17 EXPLODED VIEW (CD PLAYER)



18 WIRING DIAGRAM

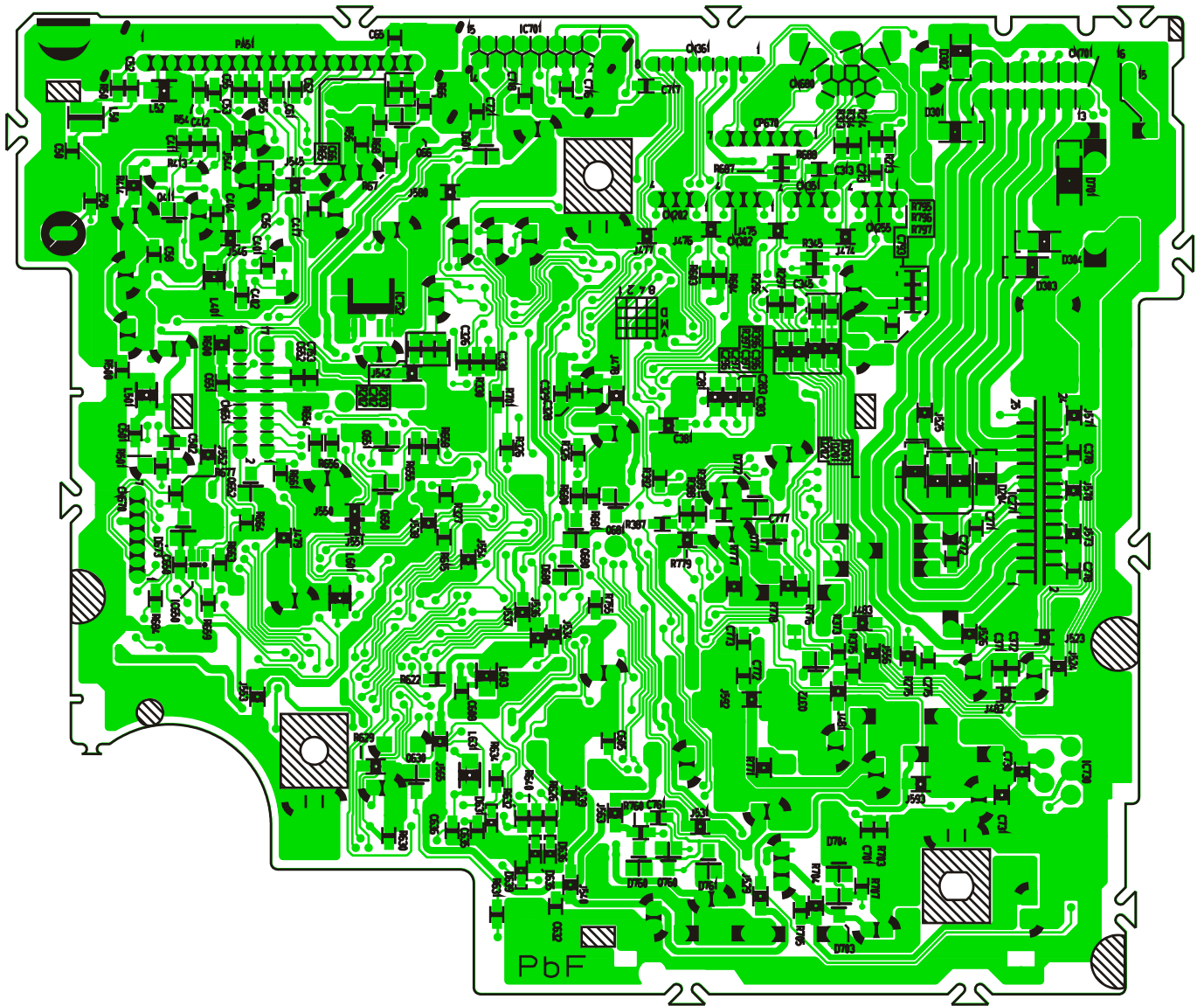
18.1. Main Block (Top View)



[E-4C308a][TOP VIEW]

CQ-C7105U/C7205U/C7305N/C7405W/C8405U/C8305U/C8405U MAIN PCB

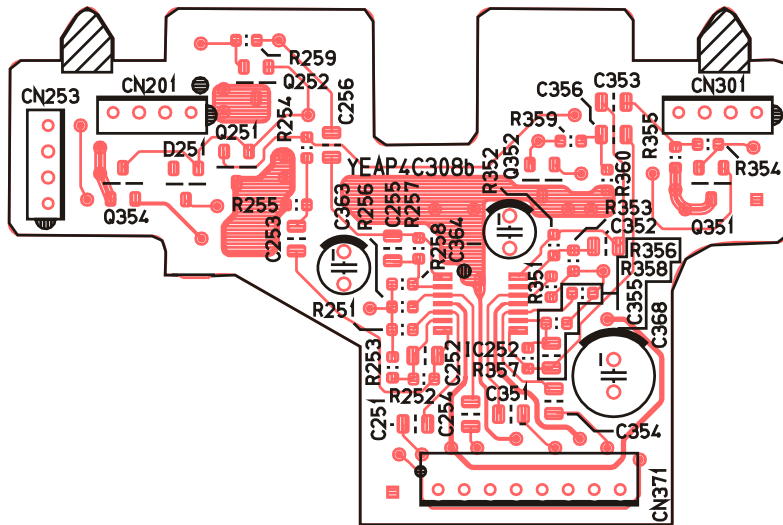
18.2. Main Block (Bottom View)



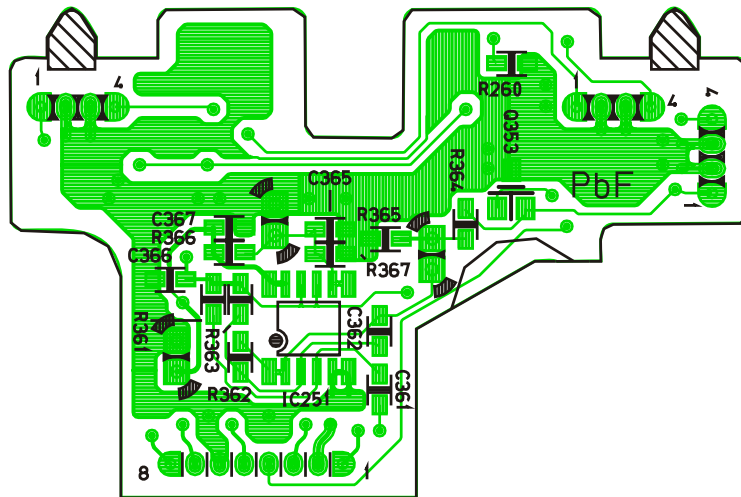
[E-4C308a][BOTTOM VIEW]

CQ-C7105U/C7205U/C7305N/C7405W/C8305U/C8405U/C8405N MAIN PCB

18.3. SUB Block



[E-4C308b][TOP VIEW]

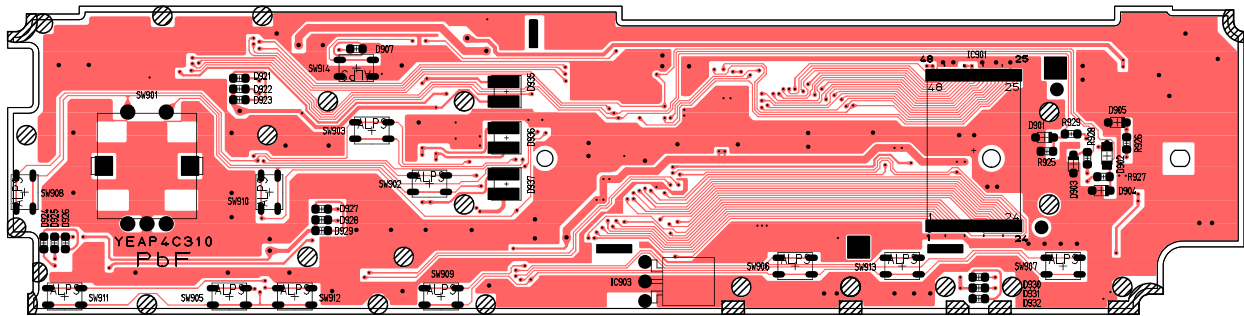


[E-4C308b][BOTTOM VIEW]

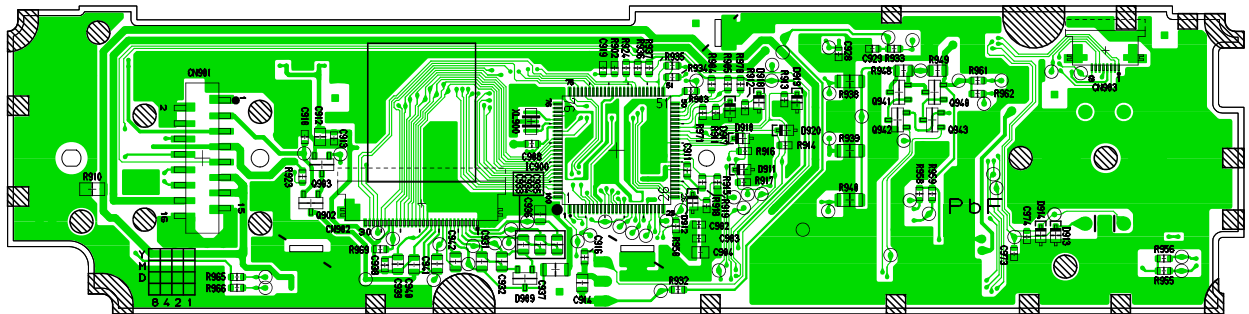
CQ-C7105U/C7205U/C7305N/C7405W/C8305U/C8405U/C8405N

SUB PCB

18.4. Display Block



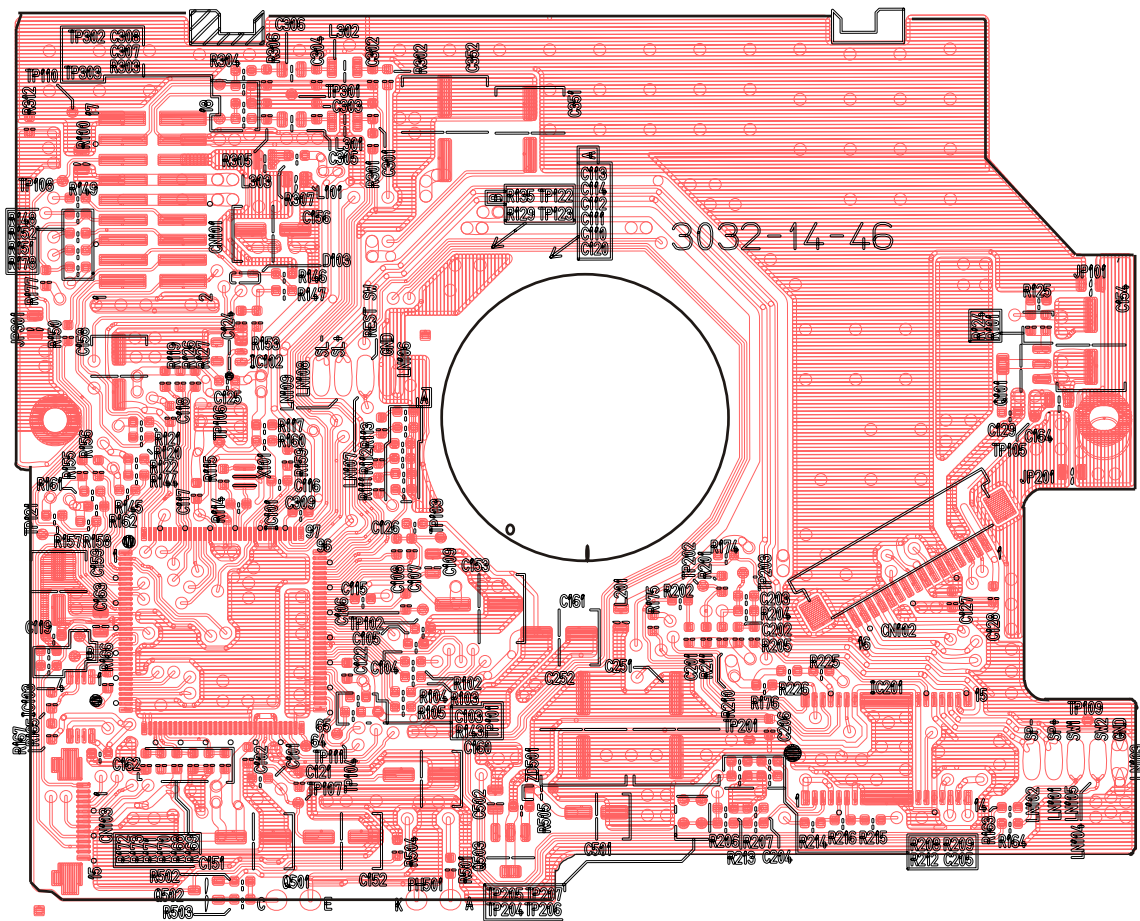
[E-4C310][TOP VIEW]



[E-4C310][BOTTOM VIEW]

CQ-C7105U/C7205U DISPLAY PCB

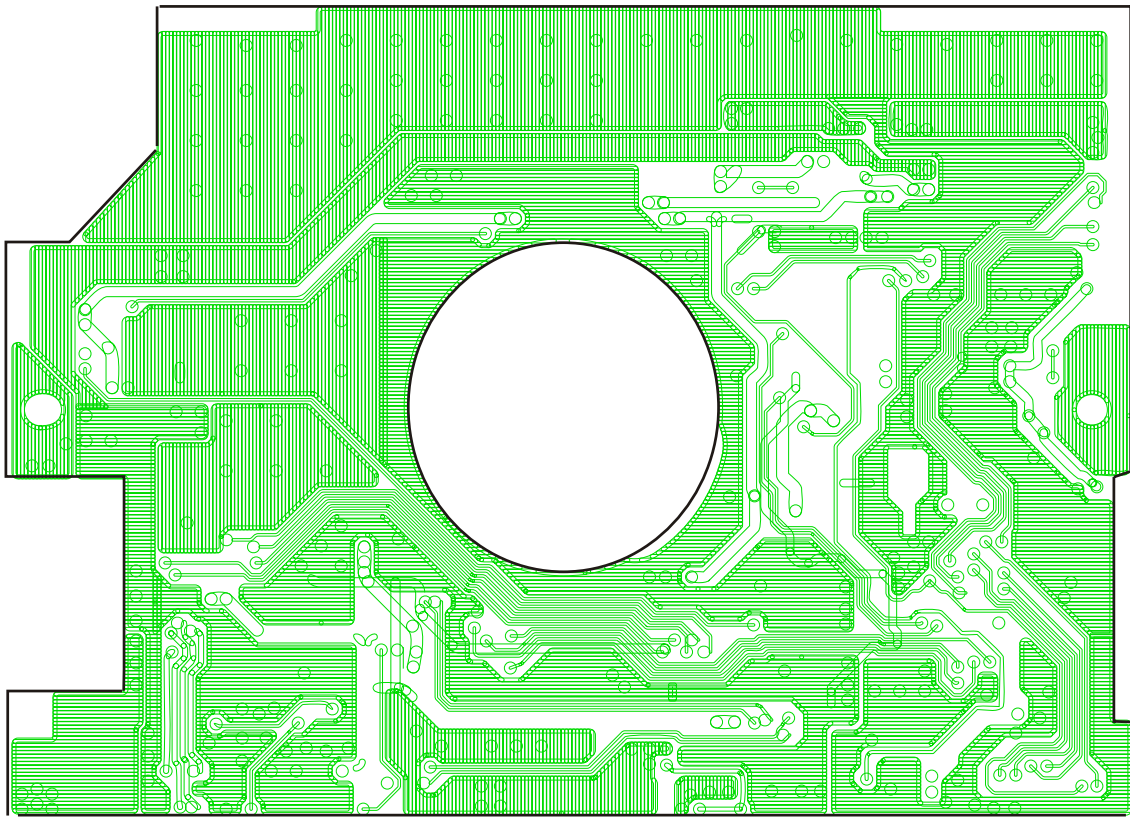
18.5. CD Servo Block (Top View)



[3032-14-46][TOP VIEW]

**CQ-C7105U/C7205U/C7305N/C7405W
/C8405N/C8405U/C8305U CD SERVOPCB**

18.6. CD Servo Block (Bottom View)



[3032-14-46][BOTTOM VIEW]

**CQ-C7105U/C7205U/C7305N/C7405W
/C8405W/C8405U/C8305U CD SERVO PCB**

**THIS PAGE IS FOR THE
PAGE LAYOUT USE ONLY.**







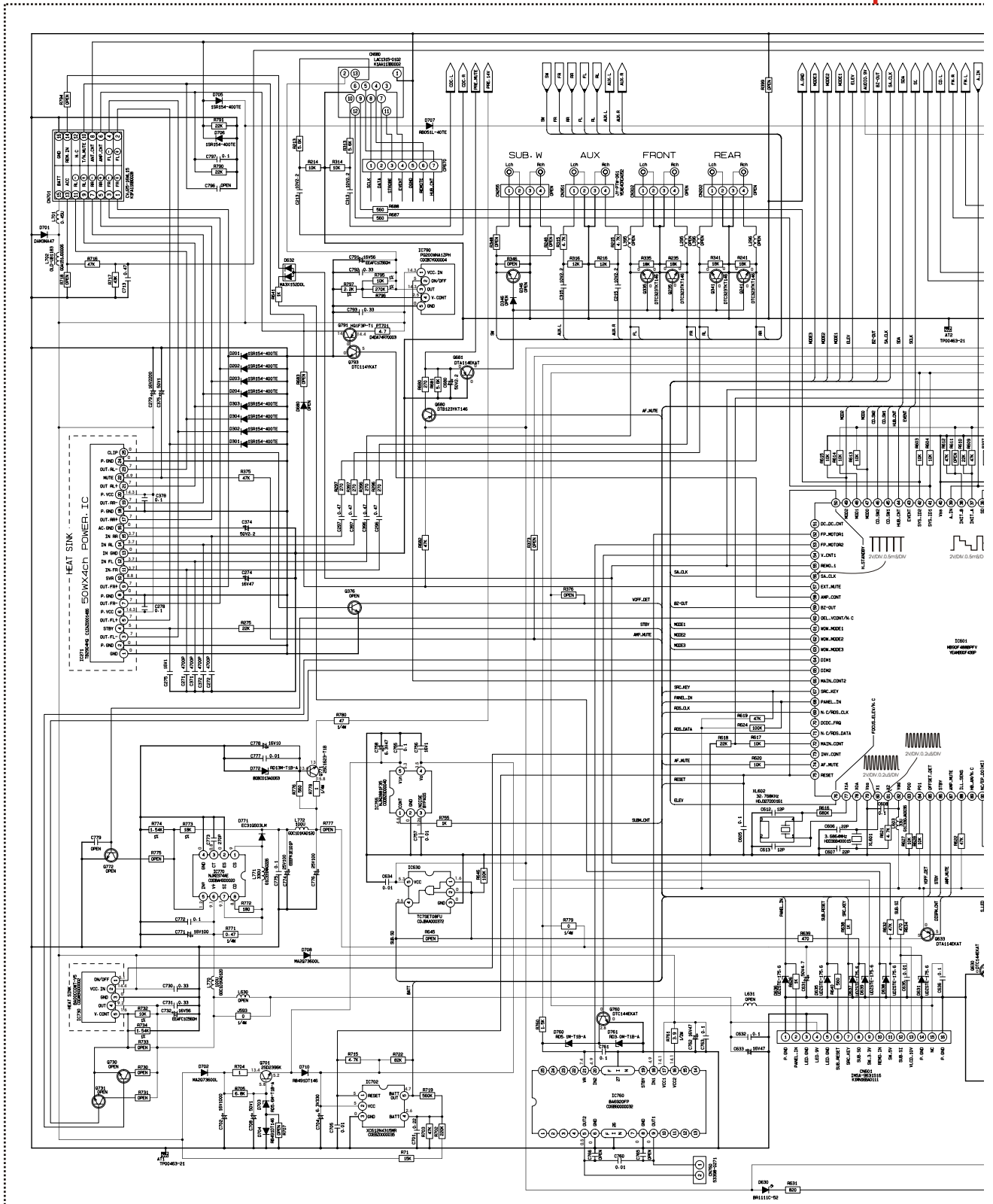




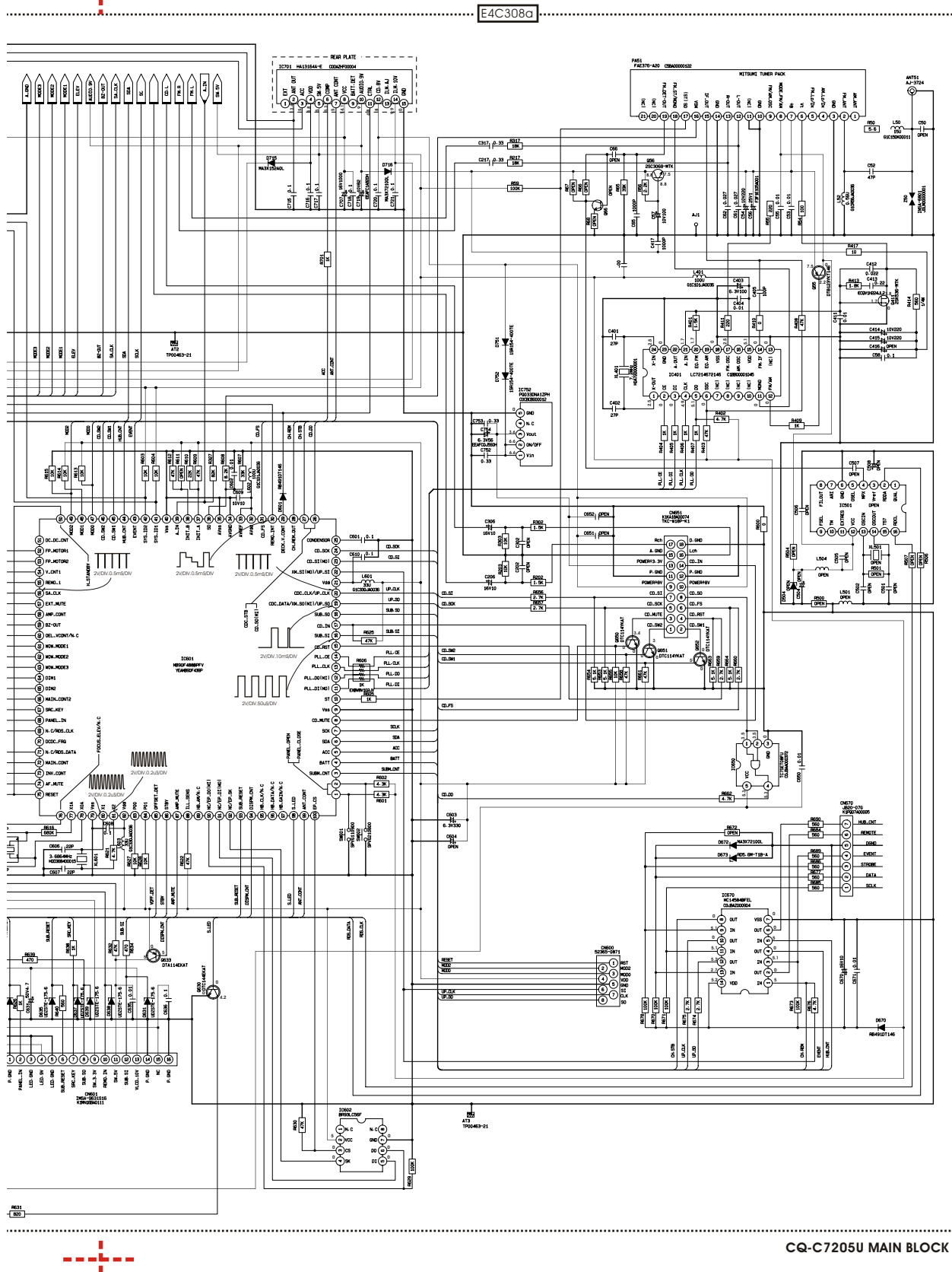
**THIS PAGE IS FOR THE
PAGE LAYOUT USE ONLY.**

20 SCHEMATIC DIAGRAM for printing with Letter size

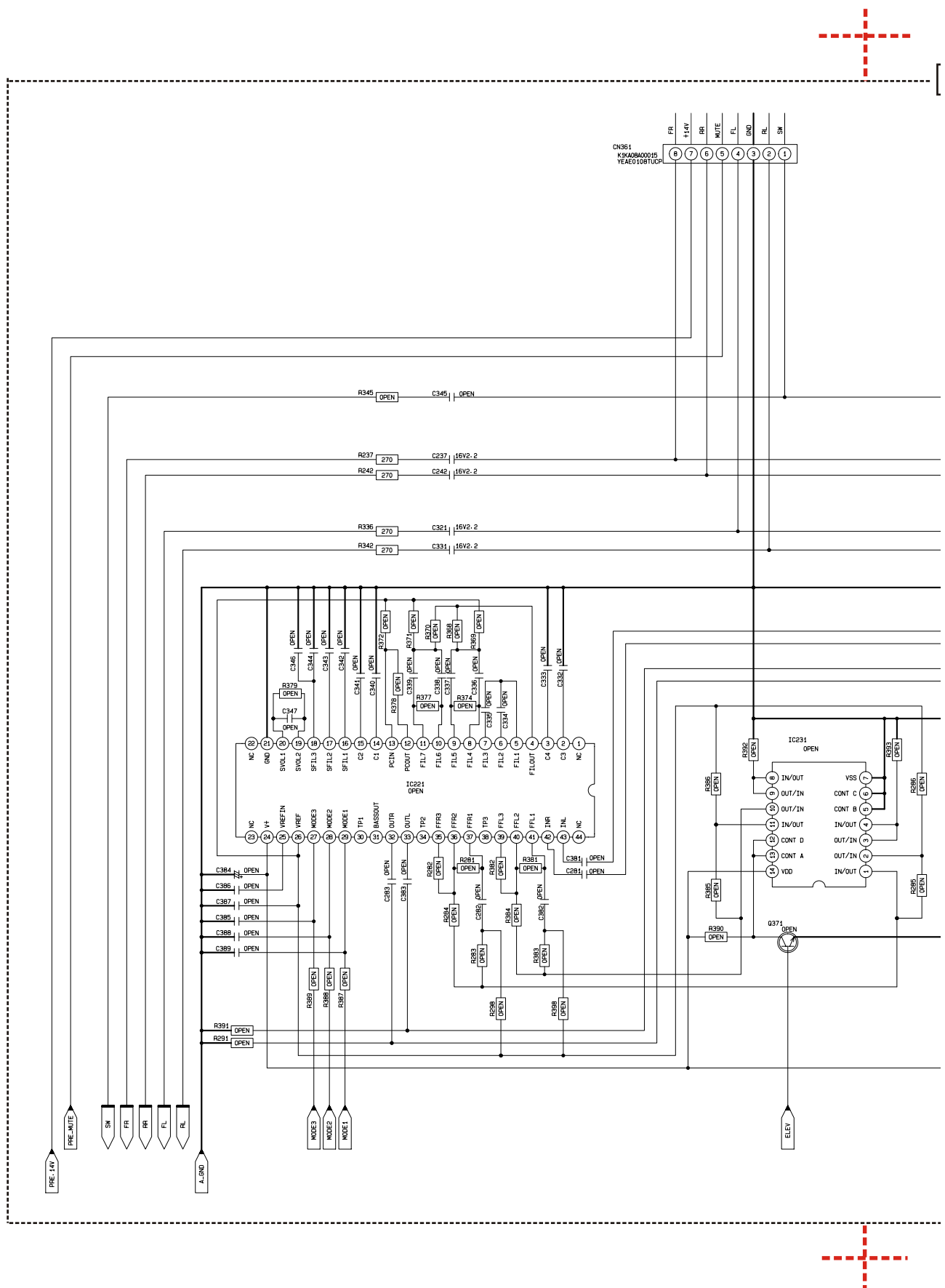
20.1. Main1 Block (Left Side)



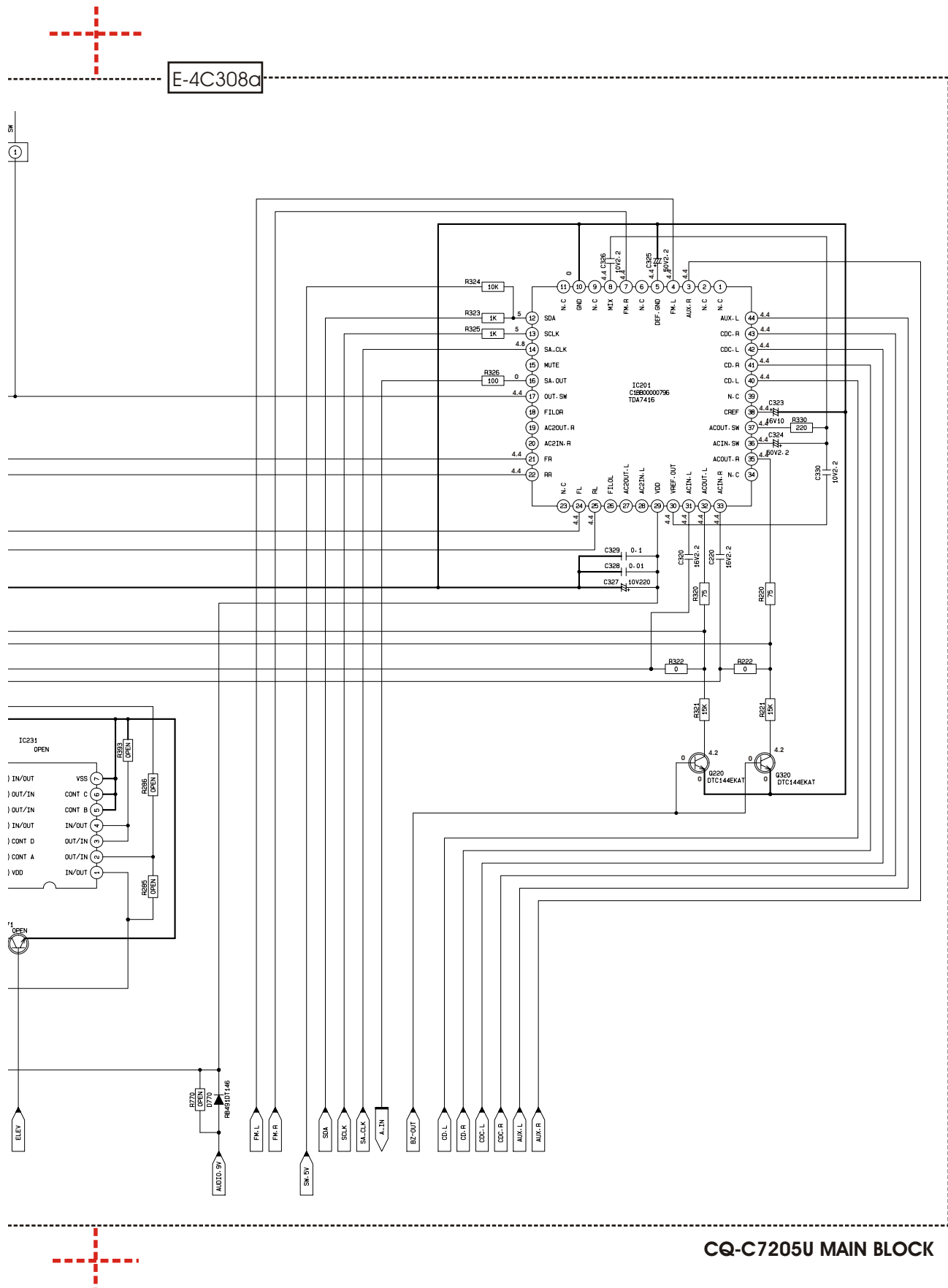
20.2. Main1 Block (Right Side)



20.3. Main2 Block (Left Side)



20.4. Main2 Block (Right Side)



20.5. Display Block (Left Side)

