

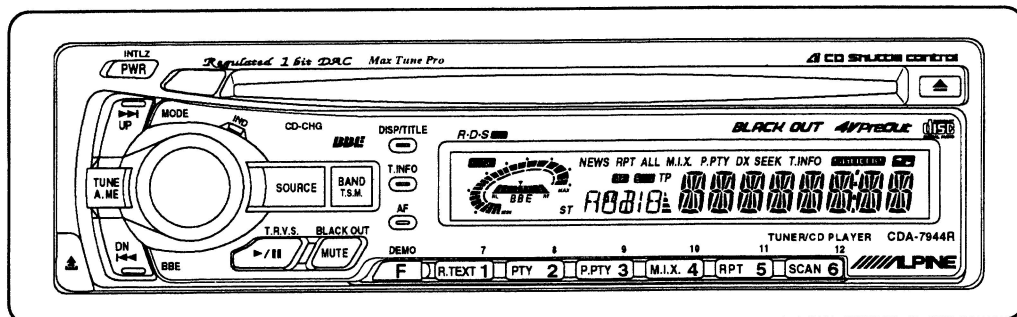
ALPINE[®] SERVICE MANUAL

FM/MW/LW Compact Disc Receiver

CD Shuttle Controller



- For the CD deck mechanism parts (DP23L05A) of this model, refer to the Service Manual · DP-L SERIES · ADDENDUM & REVISED (III) (Part No. 68E26422S01).



(CDA-7944R)

**CDA-7944R/
CDA-7842R**

Contents

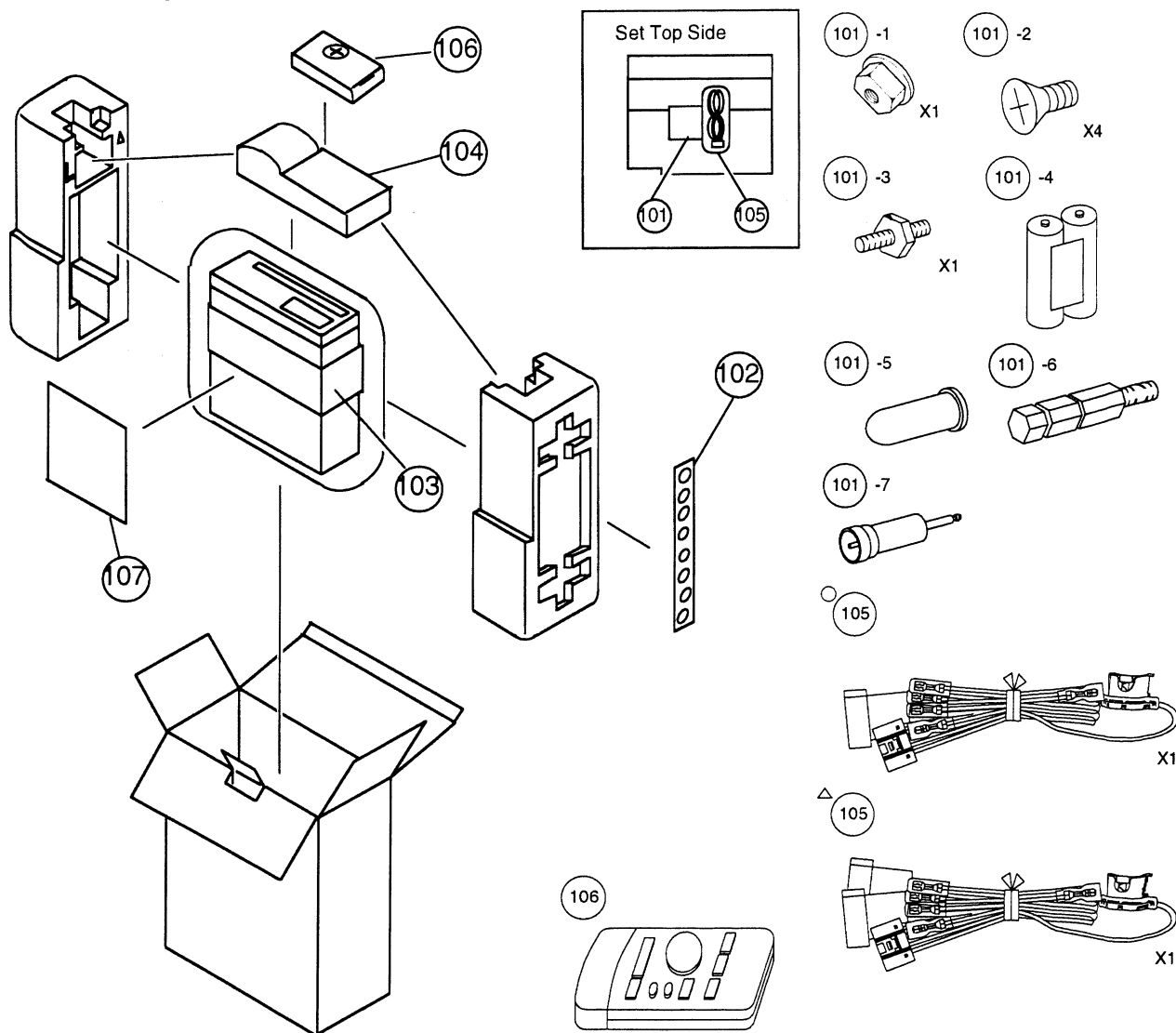
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Packing Assembly Parts List

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
101	01V13700Y74	Assy., Kit	104	15D10867Y01	Carrying, Case
101-1	02B47353F01	Nut, Hex. (M5)	○ 105	01T15359Y05	Assy., ISO Connector
101-2	03S72235F13	Screw, Countersink (M5X8)	△ 105	01T15359Y04	Assy., ISO Connector
101-3	46A42363F01	Stud, Bolt	106	01T00716K02	Assy., Remocon
101-4	60T55630W01	Battery, MGN R03 (NB) UM-4	107-1	68P10924Y40	Owner's Manual
101-5	36A11113W01	Cap, Rubber (A)	107-2	68P10924Y42	Owner's Manual (I/G/S)
101-6	03A11112W01	Bolt, Hex. (M5)			
101-7	01T15394Y02	Antenna, JASO-ISO			
102	07B64552F01	Bracket, Strap Receiver			
103	15D50406W01	Case, Inner			

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Packing Method View



Specifications

<CD SECTION>

System	Optical (Compact Disc system)
Quantizing Bit Number	16bit Linear system
Channels	2 Channels
Channel Balance (1kHz)	0±3dB
Distortion (1kHz)	0.1%
Frequency Response (Ref. 1kHz)	17Hz : 0±3dB 127Hz : 0±2dB 10.007kHz : 0±2dB 19.997kHz : 0±4dB
S/N Ratio	85dB
Separation (1kHz)	55dB
De-Emphasis (Ref. 1kHz)	4kHz : -20±3dB 16kHz : -20±3dB

<FM RADIO>

Intermediate Frequency	10.7±0.1MHz
Frequency Range	87.5~108MHz
Usable Sensitivity (98.1MHz, Mono)	17.2dBf
-3dB Limiting Sensitivity (98.1MHz)	21.2dBf
S/N Ratio (98.1MHz, Stereo)	55dB
Image Rejection (106.1MHz)	40dB
IF Rejection (90.1MHz)	60dB
Distortion (Input 60dBμ, 98.1MHz)	0.7%
Frequency Response (98.1MHz, Ref. 400Hz)	100Hz : 0±3dB 10kHz : -14±3dB
Stereo Separation (1kHz)	20dB
Residual Noise (98.1MHz, Ref. 400Hz)	30±10dB
PS Sensitivity (98.1MHz)	36.2dBf

<MW RADIO>

Intermediate Frequency	1st. : 10.7MHz 2nd. : 450kHz
Frequency Range	531~1,602kHz
Sensitivity (20dB S/N, 999kHz)	40dB
S/N Ratio (999kHz)	44dB
Image Rejection (1,404kHz)	40dB
IF Rejection (603kHz)	50dB
Distortion (999kHz)	1.5%
Frequency Response (999kHz, Ref. 400Hz)	100Hz : -3±4dB 2.5kHz : -3+3, -5dB

<LW RADIO>

Intermediate Frequency	1st. : 10.7MHz 2nd. : 450kHz
Frequency Range	153~281kHz
Sensitivity (20dB S/N, 216kHz)	44dB
S/N Ratio (216kHz)	44dB
Image Rejection (270kHz)	35dB
IF Rejection (162kHz)	50dB
Distortion (216kHz)	1.5%
Frequency Response (216kHz, Ref. 400Hz)	100Hz : -3±4dB 2.5kHz : -3+3, -5dB

<GENERAL>

Power Supply	DC14.4V
Power Output (T.H.D. 10%) /Impedance	16W/ch/4ohm (△)
Pre-Output Voltage/Impedance	1.6V/10kohm
Semiconductors	33IC's, 65Transistors, 33Diodes, 8Zener Diodes, 1FET (○) 35IC's, 65Transistors, 41Diodes, 8Zener Diodes (△)
Dimensions (W×H×D)	Nose : 188×58×25.3mm Chassis : 178×50×158mm
Weight	1.5kg

NOTE : Due to Continuing product improvement, specifications and designs are subject to change without notice.
○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Servo Monitor (Part No. 01E20845S01)

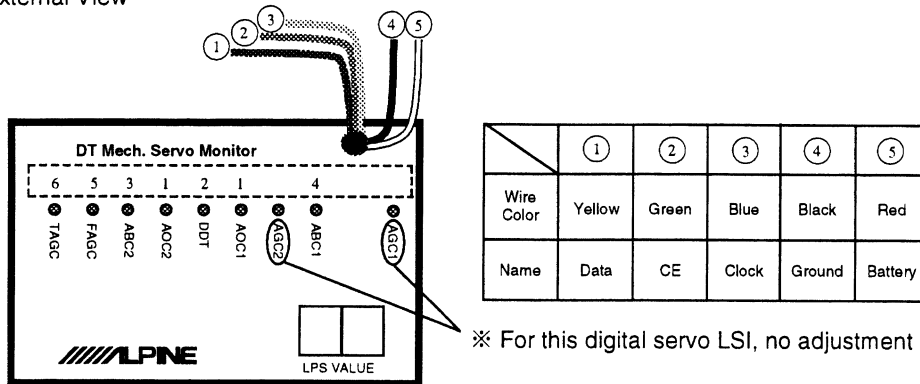
I. Purpose

DP-L mechanism built-in CDA-7944R/CDA-7842R Series performs digital signal processing in the inside of Digital Servo LSI and the outside alignment circuit builds in to this LSI and each alignments are automatic.

This DT Mechanism Servo Monitor is jig for the automatic alignment circuitry.
Please refer to the following list for the reference;

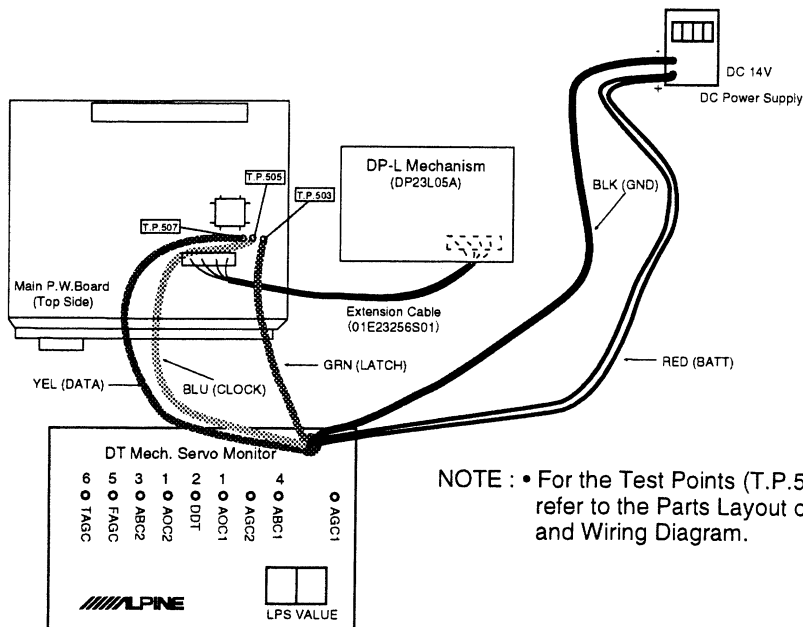
1. LED indicates the alignment.
2. Diagnosis of automatic alignment.
3. LED indicates a failure item for easy failure analysis of servo circuitry.

External View



* The numbers of the automatic alignment sequence.

II. Connection Points and Connection Method



Connect each of the wires to the Test point as illustrated in the diagram.

* Be very careful not to shorts the test points since they are located close together.

* DT Mechanism Servo Monitor can be used for the DP-L mechanism.

III. Operating Specifications

The automatic adjustment operations of the CDA-7944R/CDA-7842R Series are performed by output of the commands of the various adjustment items from the main microprocessor. Adjustments are performed in response to these commands by the digital servo LSI. This servo monitor jig receives the signal returned to the main microprocessor from the digital servo LSI and causes the LED to light or go off. The adjustment condition (of either completed or not yet completed) of the various adjustment items can be checked using the lighting condition of this LED. The following test discs are required for the good/fault judgment:

1. A-BEX TCD-721 (6th track - 1.2mm) : Scratch test disc
2. A-BEX TCD-782 : Signal test disc

Measures to be Taken Corresponding to the LED Indication

1. When a LED other than FAGC or TAGC lights, perform the fault causation analysis using the fault diagnosis chart according to the LED indication.

i) LED indications

Lit : Fault Unit : OK

Adjustment Order	LED Name	Adjustment Order	Contents
1	AOC2	Tracking offset adjustment	Corrects the tracking error value as an offset.
	AOC1	Focus offset adjustment	Corrects the focus error value as an offset.
2	DDT	Disc detection	Detects the presence or absence of a disc.
3	ABC2	Tracking balance adjustment	Corrects the average value of the tracking error as a balance value.
4	ABC1	Focus balance adjustment	Correct until the RF level becomes maximum.
5	FAGC	Focus fine gain adjustment	Introduces external interference and adjusts the focus gain to an appropriate value.
6	TAGC	Tracking fine gain adjustment	Introduces external interference and adjusts the tracking gain to an appropriate value.

ii) Seven-Segment LED (LPS Value)

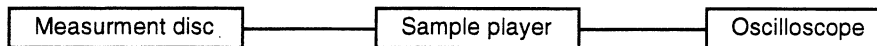
Not used since this model is a single CD player. Indication shows "00".

Measurements

A. RF Signal Level Measurement

The main beam of the returning light is received by the photodiode and the output voltage is obtained by current-voltage conversion of A+B+C+D.

1. Block Diagram



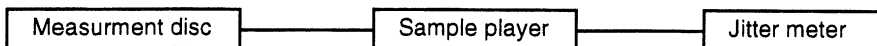
2. Measurement Method

- (a). Connect the ground terminal of the oscilloscope VRO (TA2066F, pin 20) and measure the RFO signal (of TA2066F, pin 21).
- (b). Play the first track of the measurement disc A-BEX TCD-782.
- (c). Read the peak-to-peak value of the waveform.
Specification: 1.2+0.3, -0.2V
* When the value is outside of the specification (i.e., not good), check TA2066F and the pick-up.

B. Jitter Measurement

The standard deviation of the pulse width when a trigger is applied to the rising edge of the 3T component of the RF signal.

1. Block Diagram



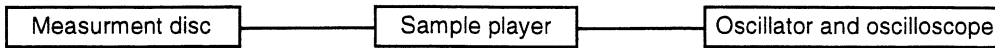
2. Measurement Method

- (a). Connect the ground terminal of the jitter meter to VRO (TA2066F, pin 20) and measure the RFO signal (of TA2066F, pin 21).
- (b). Play the first track of the measurement disc A-BEX TCD-782.
- (c). Read the indicated value of the jitter meter.
Specification: 25nS or less
* When the value is outside of the specification, check TA2066F and the pick-up.

C. Focus Servo Gain Measurement

Measure the focus servo open loop gain in the servo-on (closed loop) condition.

1. Block Diagram

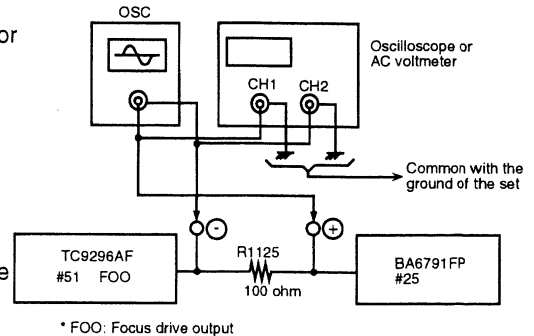


2. Measurement Method using an Oscillator and an Oscilloscope

- Connect OSC output to resistor for gain measurement (100 ohm).
(Connect a servo driver side to positive side.)
- Connect CH1 of oscilloscope to a servo driver side of resistor for gain measurement (100 ohm).
(Connect negative side with GND of set.)
- Connect CH2 of oscilloscope to TC9296AF side of resistor for gain measurement (100 ohm).
(Connect negative side with GND of set.)
- Play back the eighth track of A-BEX TCD-782 disc for measurement. (No sound recording track)
- Output frequency (1.2 kHz, 200 mVP-P) from OSC and compare the amplitude of CH1 and CH2 of oscilloscope and convert into dB.
Gain (dB) = 20 Log (CH2/CH1)

Specification : Gain Normal if it is within 0±3dB.
* If the specification is out (NG), TC9296AF (Digital Servo LSI) is malfunction.
NOTE: AC voltmeter is available to measurement.

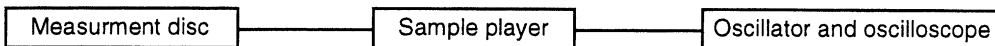
3. Connection (Example)



D. Tracking Servo Gain Measurement

Measure the tracking servo open loop gain in the servo-on (closed loop) condition.

1. Block Diagram

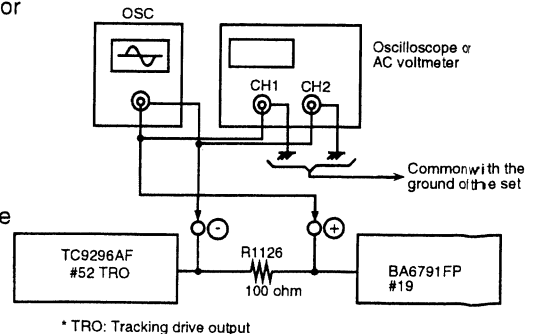


2. Measurement Method using an Oscilloscope

- Connect OSC output to resistor for gain measurement (100 ohm).
(Connect a servo driver side to positive side.)
- Connect CH1 of oscilloscope to a servo driver side of resistor for gain measurement (100 ohm).
(Connect negative side with GND of set.)
- Connect CH2 of oscilloscope to TC9296AF side of resistor for gain measurement (100 ohm).
(Connect negative side with GND of set.)
- Play back the eighth track of A-BEX TCD-782 disc for measurement. (No sound recording track)
- Output frequency (1 kHz, 50 mVP-P) from OSC and compare the amplitude of CH1 and CH2 of oscilloscope and convert into dB.
Gain (dB) = 20 Log (CH2/CH1)

Specification : Gain Normal if it is within 0±3dB.
* If the specification is out (NG), TC9296AF (Digital Servo LSI) is malfunction.
NOTE: AC voltmeter is available to measurement.

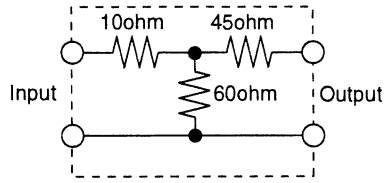
3. Connection (Example)



Adjustment Procedures

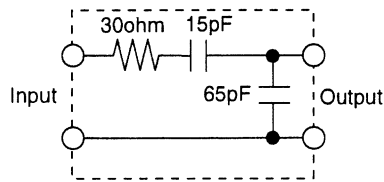
1. FM/AM SECTION

(1) Dummy Antenna Circuit



For 50 ohm FM Signal Generator

Figure 1



For 50 ohm AM Signal Generator

Figure 2

(2) Connections

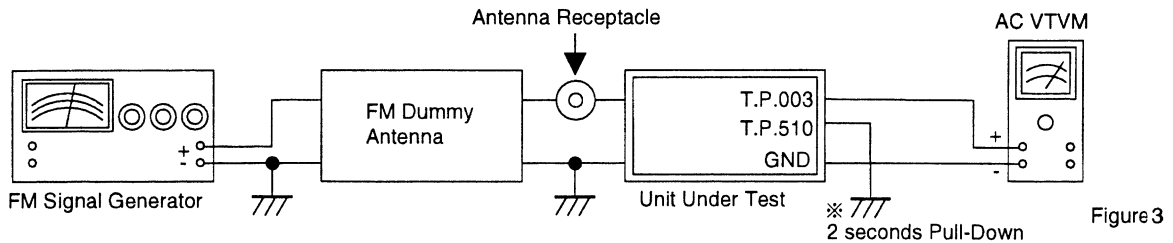


Figure 3

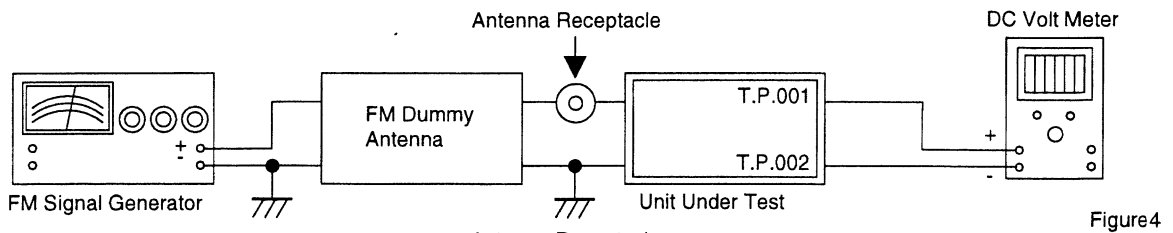


Figure 4

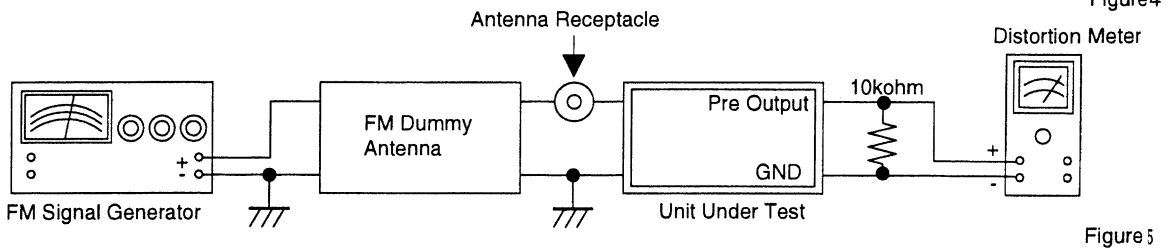


Figure 5

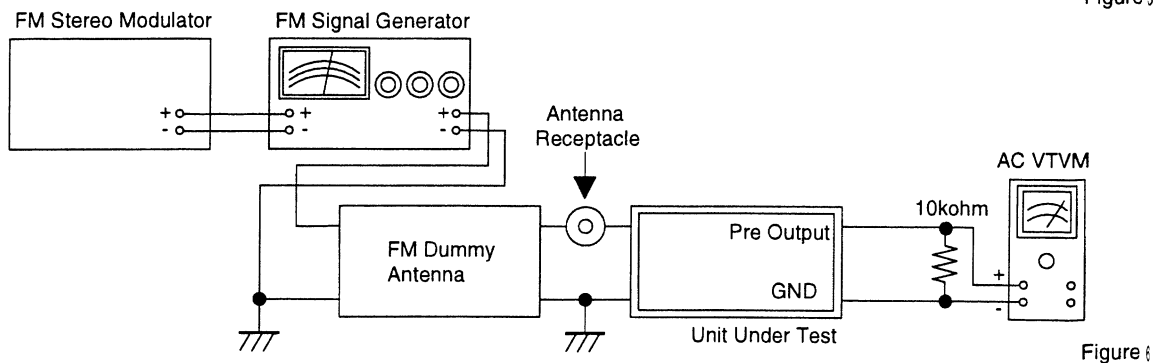


Figure 6

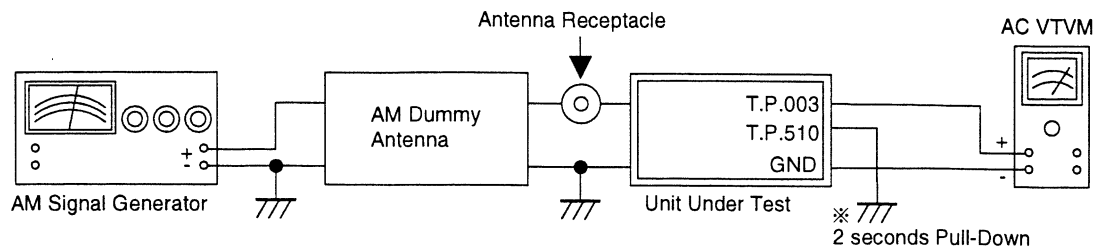


Figure 7

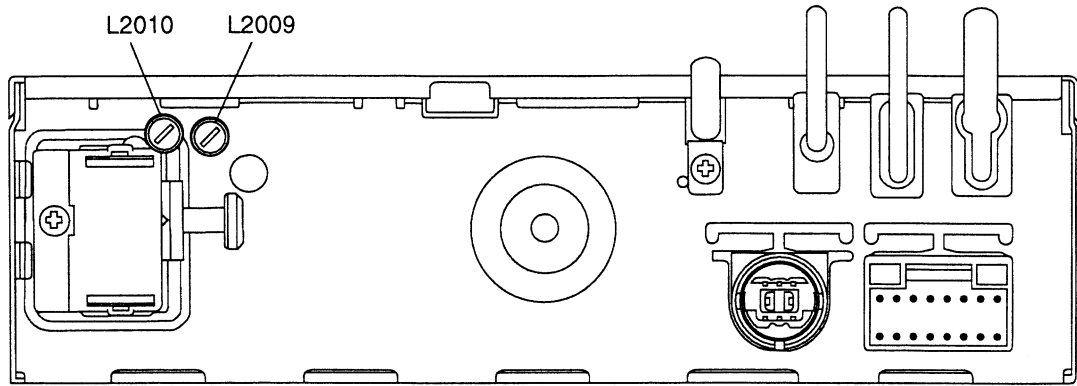
(3) Control Settings

Power Switch	.....	ON	Bass Control	.....	Center Position
Fader Control	.....	Center Position	Band Switch	.....	FM/AM (MW)
Balance Control	.....	Center Position	BBE Switch	.....	OFF
Treble Control	.....	Center Position	Others	.....	OFF

(4) Adjustment Procedures

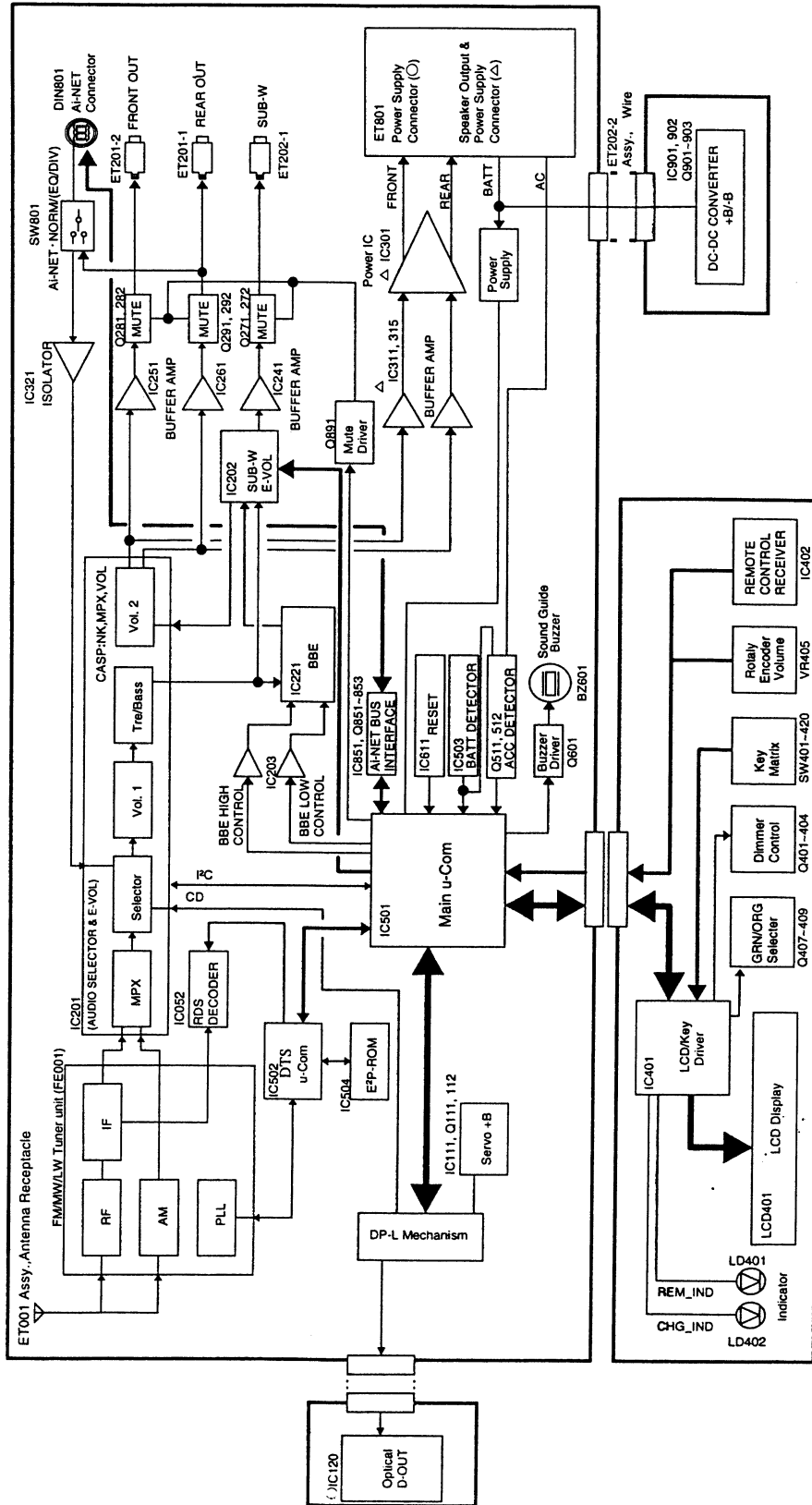
Step	Description	Connection	Signal Generator	Dial Control	Test Point / P.W.Board Coordinates	Adjustment
1	Signal Meter Auto Adjustment	Figure 3	98.1MHz, 52dB μ (Mod. OFF)	98.1MHz	T.P.003 (2-C) T.P.510 (2-C)	Auto Adjustment : After setting up of Signal Generator, short GND and T.P.510 (Pull-Down) for 2 seconds.
2	IF Adjustment	Figure 4	98.1MHz, 72dB μ (Mod. 400Hz, Dev. 40kHz)	98.1MHz	T.P.001 (1-C) T.P.002 (1-C)	Adjust L2009 to 0 \pm 100mV.
3	Distortion Adjustment	Figure 5	98.1MHz, 72dB μ (Mod. 400Hz, Dev. 40kHz)	98.1MHz	Pre Output	Adjust L2010 to less than 0.7%.
4	IF Confirmation	Figure 4	98.1MHz, 72dB μ (Mod. 400Hz, Dev. 40kHz)	98.1MHz	T.P.001 (1-C) T.P.002 (1-C)	Confirm T.P.001 and T.P.002 output voltage is 0 \pm 100mV. (NG : Proceed same adjustment under Step 2.)
5	Separation Adjustment	Figure 6	98.1MHz, 72dB μ (Mod. 1kHz, Dev. 36kHz, Stereo, Lch only)	98.1MHz	Pre Output	Adjust VR201 to for Rch output to be minimum, and confirm Lch and Rch output level difference is more than 20dB.
6	AM Seek Stop Auto Adjustment	Figure 7	999kHz, 33dB μ (Mod. OFF)	999kHz	T.P.003 (2-C) T.P.510 (2-C)	Auto Adjustment : After setting up of Signal Generator, short GND and T.P.510 (Pull-Down) for 2 seconds.

Adjustment Locations



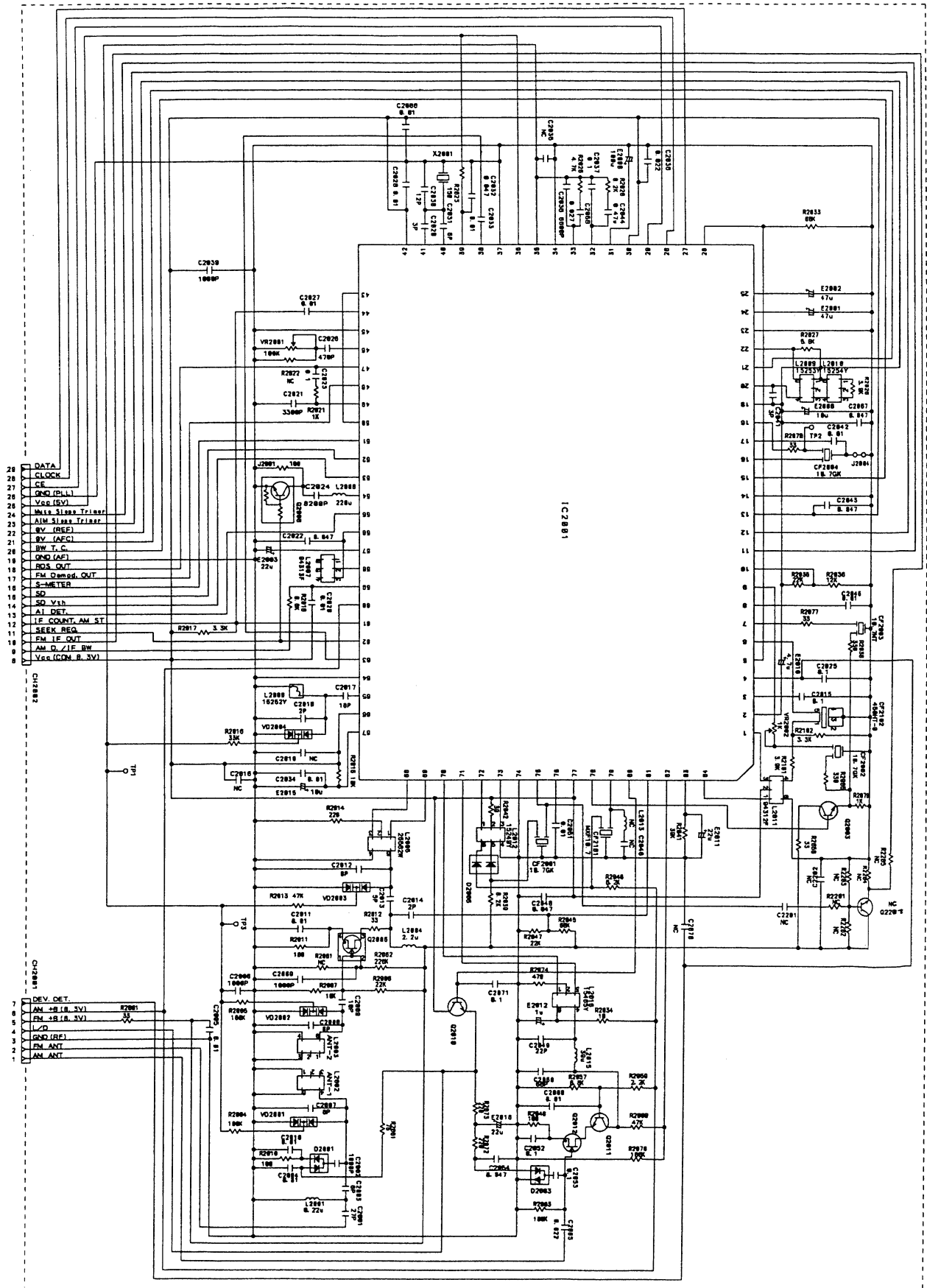
NOTE : For the Test Points (T.P.001~003, 510) and Adjustment Parts (VR201), refer to the Parts Layout on P.W.Boards and Wiring Diagram.

Block Diagram



NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Tuner Schematic Diagram



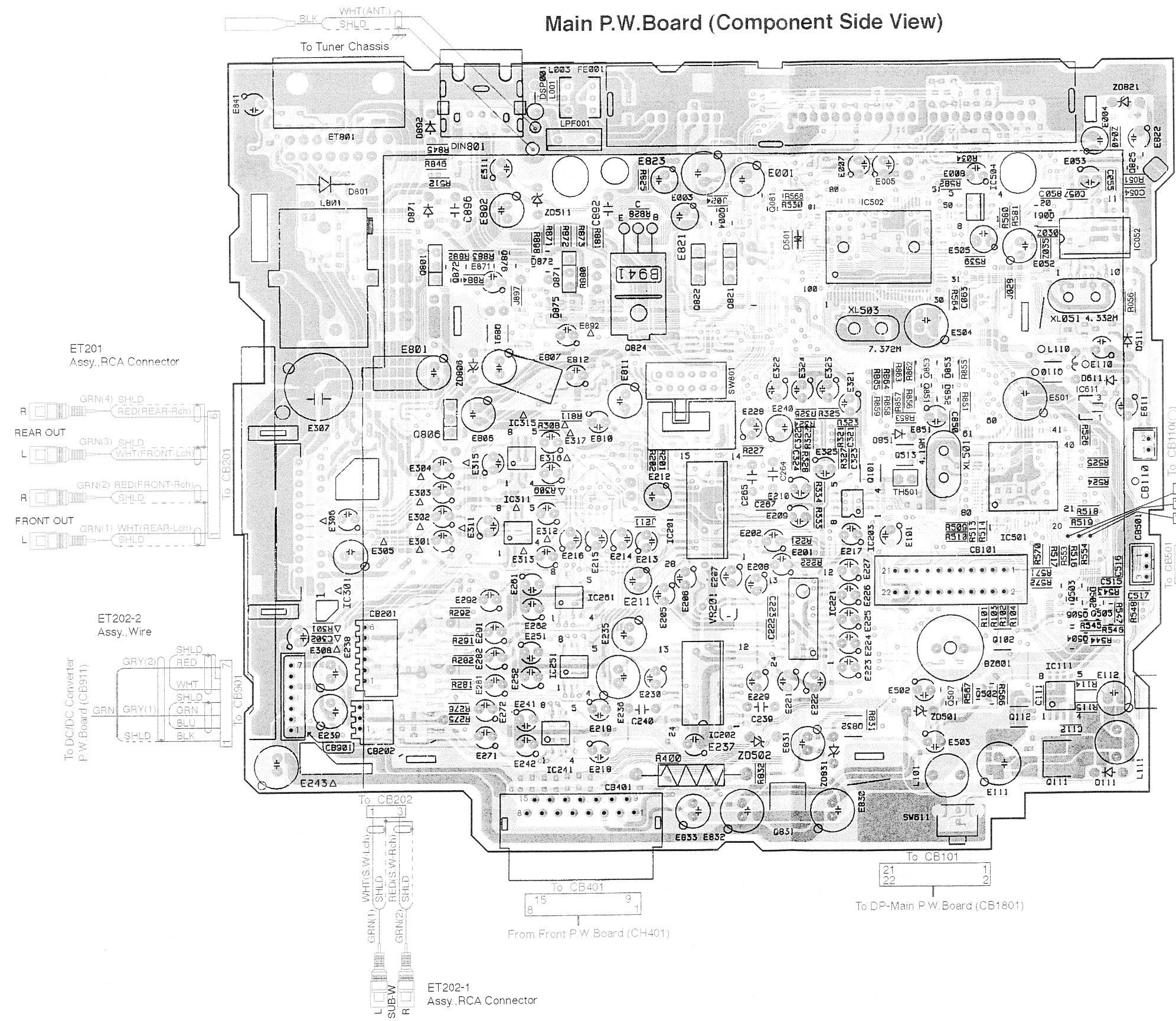
MEMO

Parts Layout on P.W. Boards and Wiring Diagram (1/4)

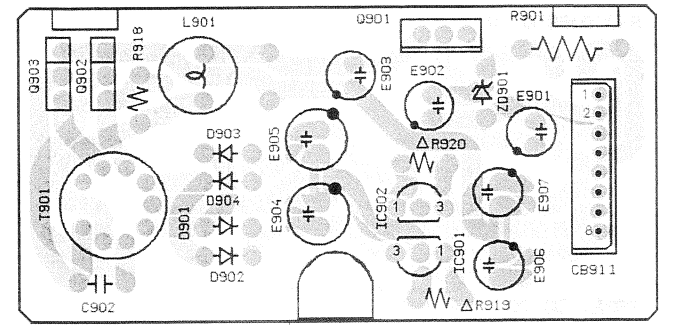
1
2
3
4
5
A | B - 15 - | C | D | E | F - 16 - | G

ET001
Assy., Antenna Receptacle

Main P.W. Board (Component Side View)



DC/DC Converter P.W. Board (Component Side View)



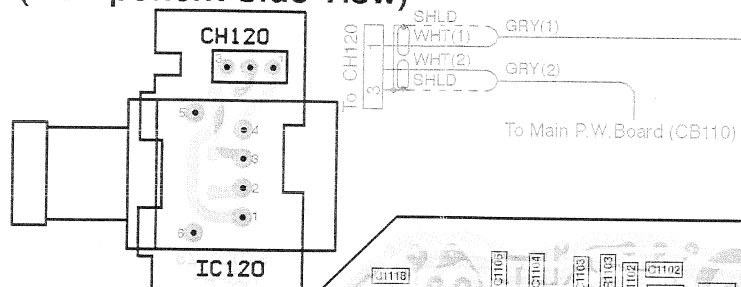
NOTE: ○: For CDA-7944R Model Only,
△: For CDA-7842R Model Only,
Others: Common.

Orange Color Pattern: Component Side Pattern
Blue Color Pattern: Foil Side Pattern

Parts Layout on P.W. Boards and Wiring Diagram (4/4)

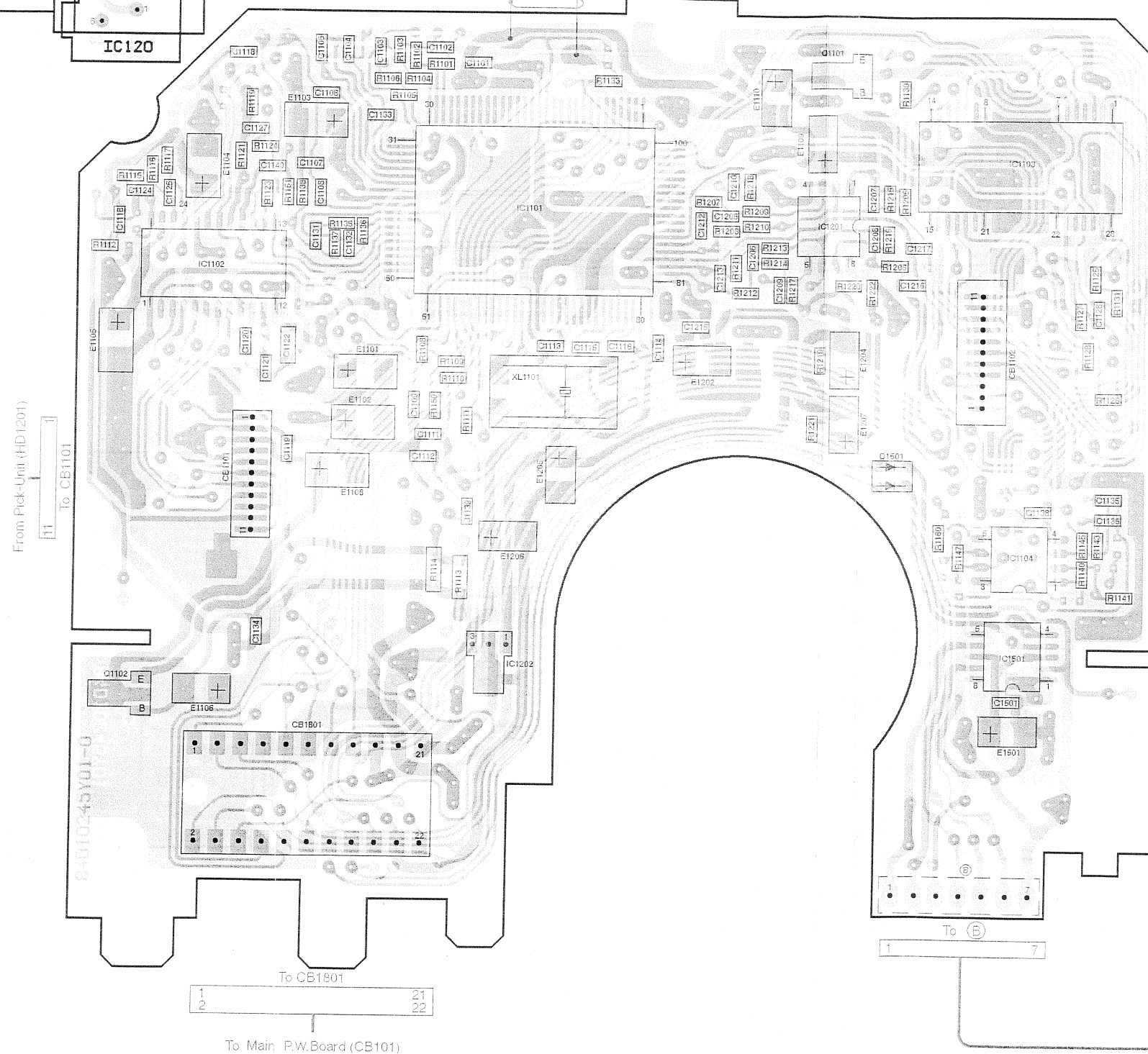
1

D-OUT P.W.Board (○)
(Component Side View)

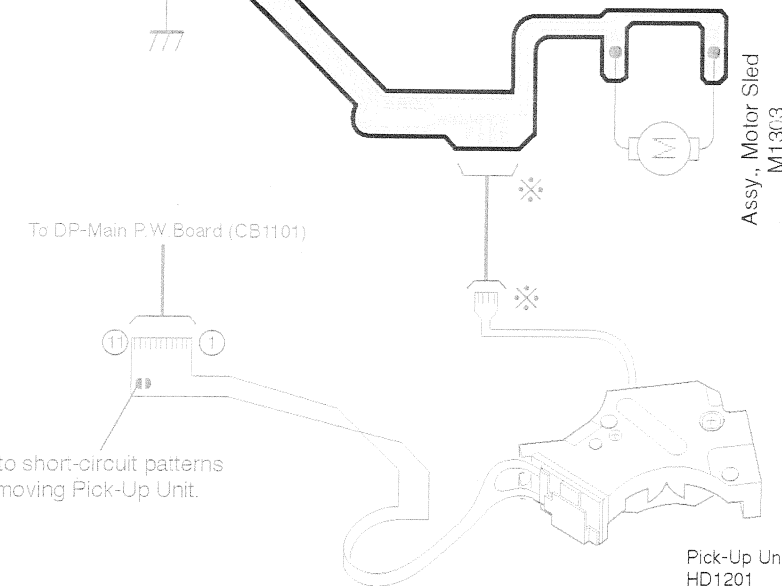
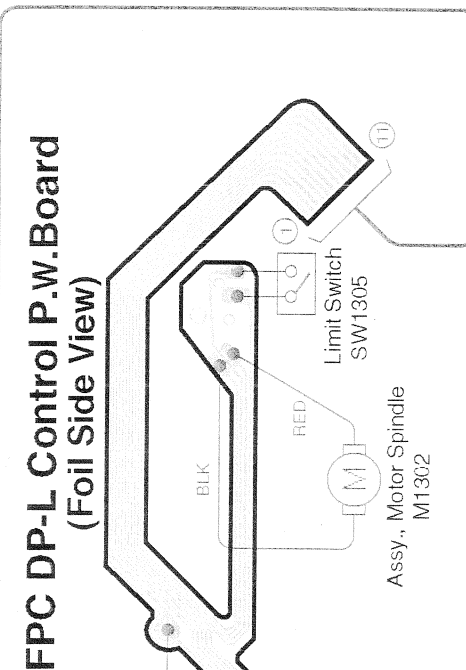


2

DP-Main P.W.Board
(Foil Side View)

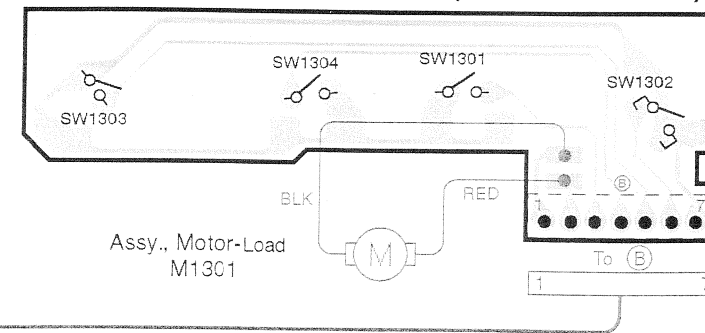


3



4

Switch / Motor P.W.Board (Foil Side View)



5

Orange Color Pattern : Component Side Pattern
Blue Color Pattern : Foil Side Pattern

A

B - 21 -

C

D

E

F - 22 -

G

Schematic Diagram (1/6)

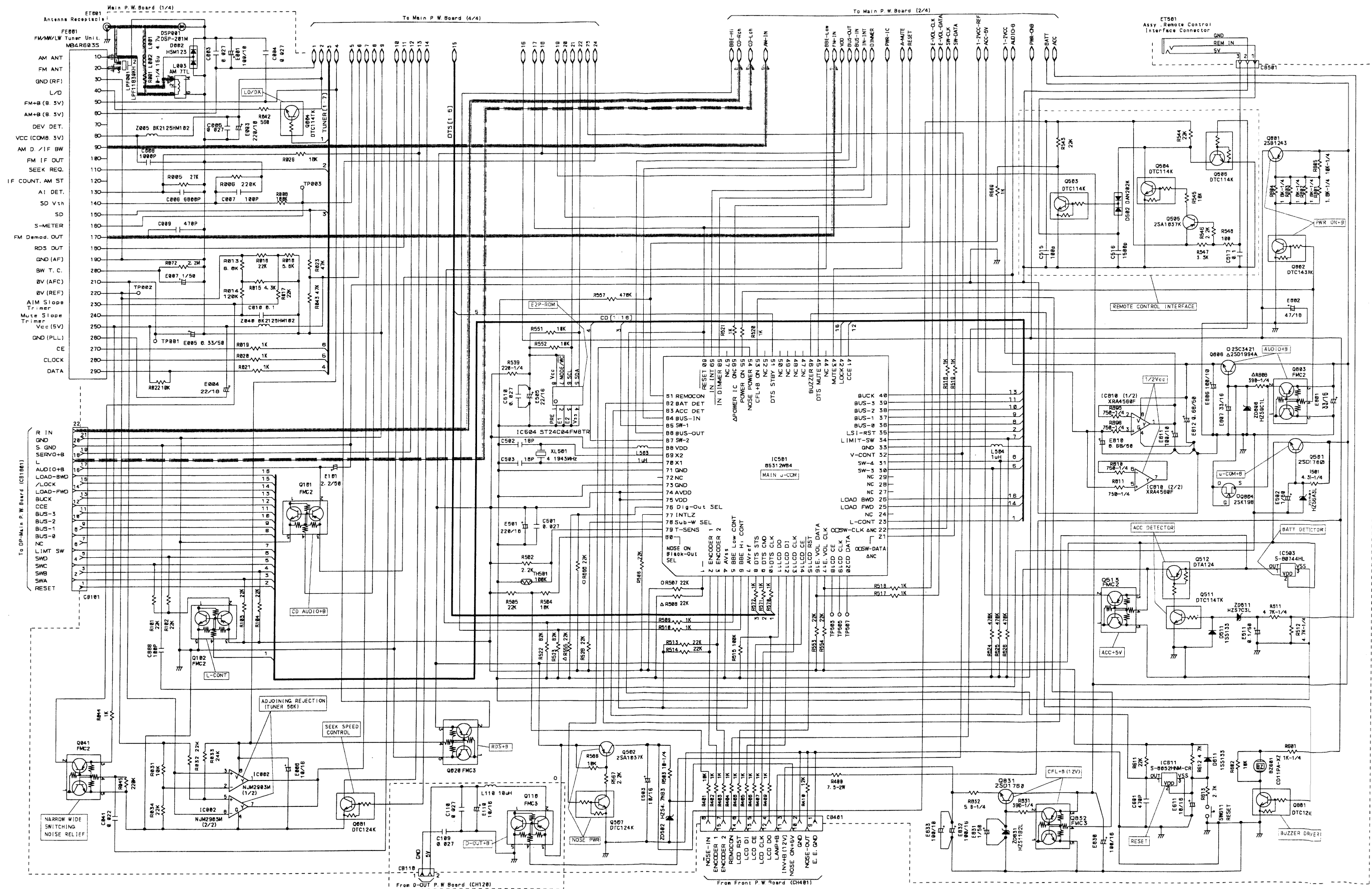
1

2

3

4

5



A

B - 23 -

C

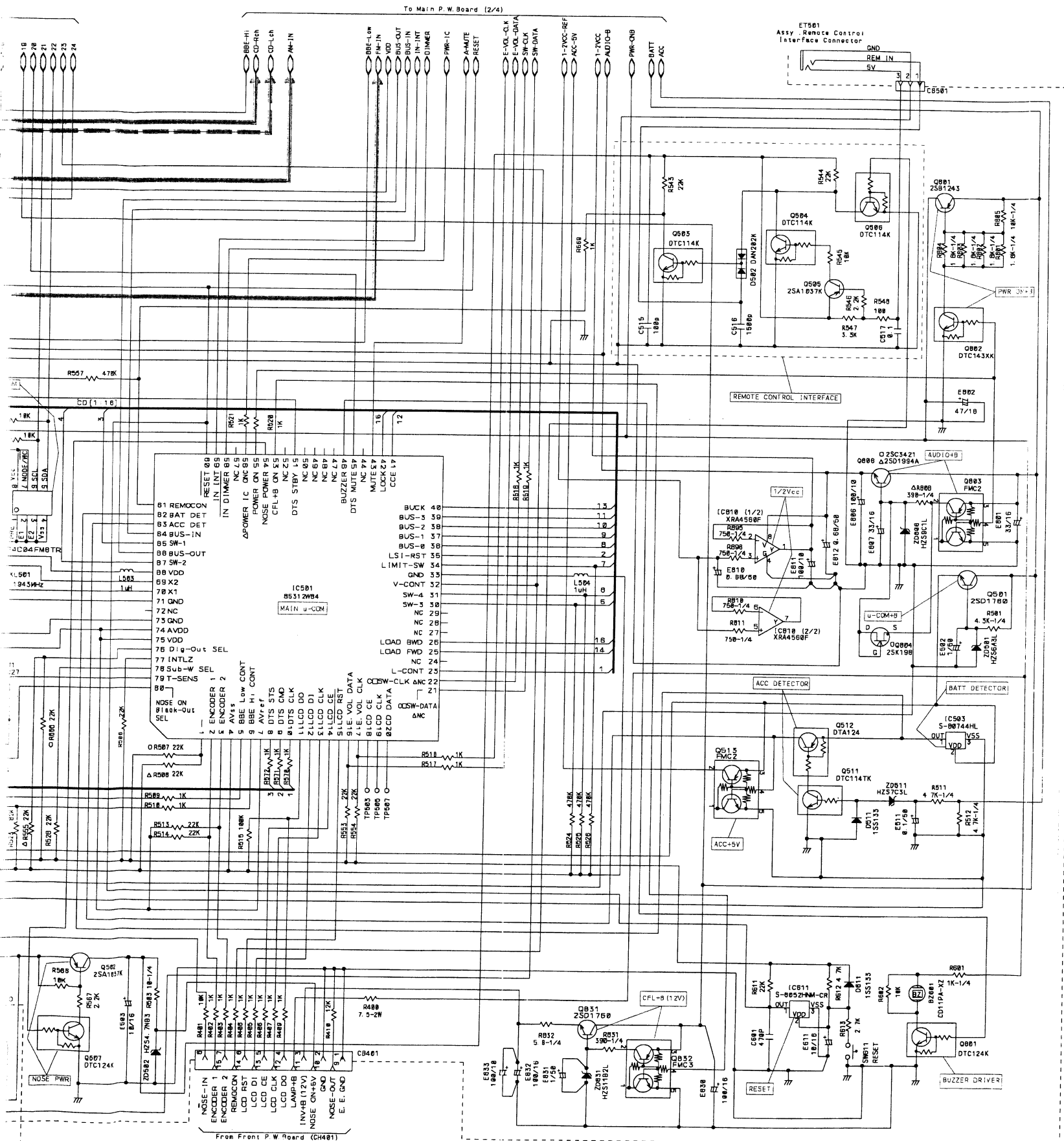
D

E

F - 24 -

G

H



IC002

1	8.32V	5	6.54V
2	3.38V	6	4.73V
3	4.72V	7	8.32V
4	0V	8	8.33V

IC503

1, 2	5V
3	0V

IC504

1-4	0V
5-8	5V

IC611

1	5.2V	
2	5V/0V	POWER ON / OFF
3	0V	

IC810

1-3	4.5V
4	0V
5-7	4.5V
8	9V

IC501

1	5V	52	NC	
2	5V/0V	53-54	5V	
3, 4	0V	56	NC	
5	3.5-0V/0V	57	5V	
6	1.8-3.5V/0V	58	5V/0V	DIM ON / OFF
7-10	5V	59	4.98V/0V	IN-INT ON / OFF
11-17	PS	60	5.06V	
18-20	0V	61	4.69V	
21, 22	PS/5V	62	4.79V	
23	5V/0V	63	4.77V	
24	NC	64	PS/0V	CHG / POWER ON
25, 26	0V	65	0V/4.83V	CD PLAY / DISC LOAD, EJECT
27-29	NC	66	PS/0V	CHG / POWER ON
30	0V/4.83V	67	0V/4.83V	CD PLAY / DISC LOAD, EJECT
31	0V/4.83V	68	5.07V	
32	0V/5.04V	69, 70	OSC	
33	0V	71	0V	
34	0V/4.66V	72	NC	
35	0V/5.06V	73	0V	
36-41	0V/PS	74, 75	5.08V	
42	0V/5.1V	76	5V	
43	5V/0V	77	0V	
44	NC	77	5.09V	
45	5V	78	5.07V	
46	PS/0V	79	4.91V	
47-50	NC	80	2.56V	
51	5V			

	E	C	B	MODE		E	C	B	MODE
Q004	4.2V/0V	8.2V/8.2V	4.8V/0V	LOCAL / DX SEEK	Q507	0V	0V	5V	
Q081	0V/0V	0V/0V	5V/0V	SEEK / POWER ON	Q511	0V	0V	4.7V	
Q501	5V	14V	5.5V		Q512	4.7V	4.7V	0V	
Q502	5.3V	5V	5V		Q801	0V/0V	14V/PS	0V/0V	POWER ON / BUZZER
Q503	0V	4.8V	0V		Q801	14V	14V	13.1V	
Q504	0V	0V	0V		Q802	0V	0V	5V	
Q505	5.05V	0V	5.04V		Q806	1.5V	14.5V	9.8V	
Q506	0V	0V	1.89V		Q831	10.5V	14V	11V	

	1	2	3	4	5	MODE
Q020	NC	4.97V/0V	5.09V/5.09V	8.27V/0.97V	0V/0V	FM / MW, LW
Q041	NC	3.5V/1.5V	5V	0V	0V	MW, LW / OTHERS
Q101	NC	1.4V/1.2V	1.6V/0V	14.2V/0V	0V/0V	CD / EJECT
Q102	NC	0V/5V	5V/0V	0V/5V	5V/5V	CD / EJECT
Q110	NC	4.94V/4.94V	5.07V/5.07V	5.04V/0V	0V/0V	CD PLAY / POWER ON
Q513	NC	5V	5V	5V	0V	
Q803	NC	13.8V	14.1V	4.3V	0V	
Q832	NC	14V	14.2V	5.2V	0V	

	G	D	S
Q0804	9.24V	9.24V	14.28V

[Measuring Conditions]

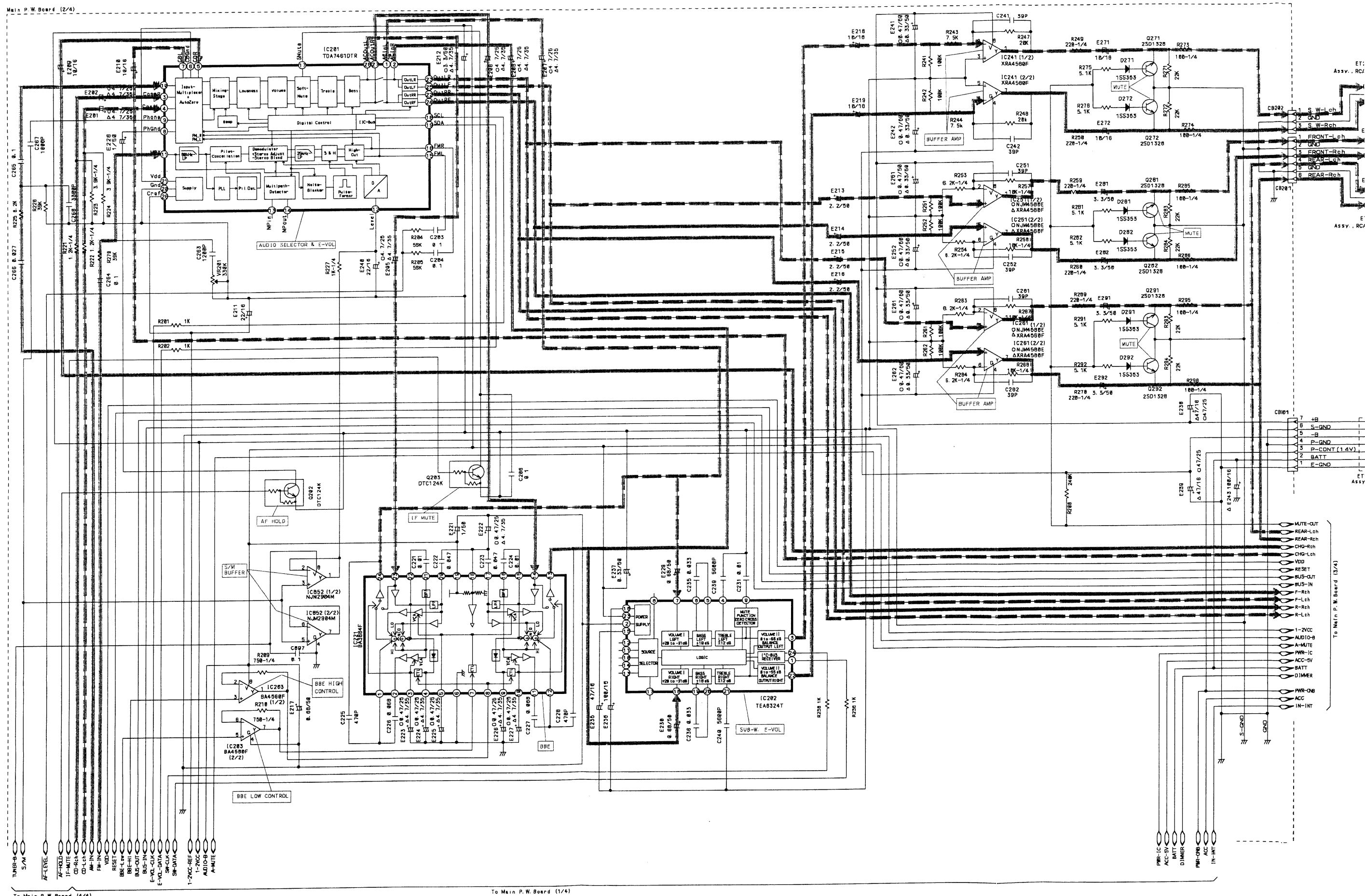
- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : Power ON, FM 98.1MHz, No Modulation

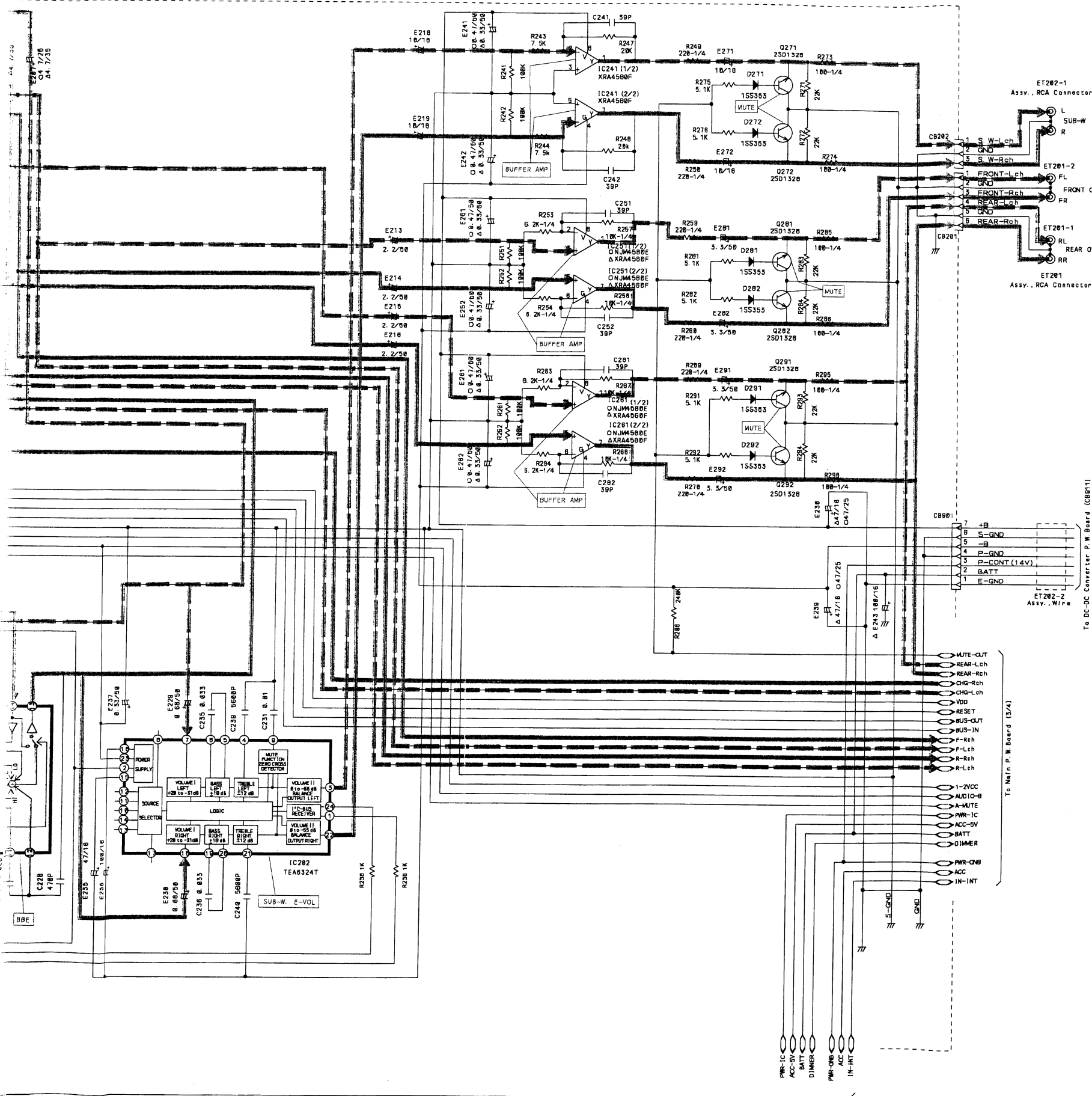
NOTE : ○ : For CDA-7944R Model Only,
△ : For CDA-7842R Model Only,
Others : Common.

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

Schematic Diagram (2/6)

1
2
3
4
5





IC201

1-7	4.4V	
8	4.5V	
9	0V	
10	4.4V	MW, LW
11	4.4V	
12	4.5V	
13, 14	NC	
15, 16	4.5V	
17	5.1V	MUTE ON / OFF
18, 19	PS	
20	0V	
21	8.9V	
22-25	4V	
26-28	4.5V	

IC202

1	PS	15	9V
2	0V	16	4.5V
3-7	4.5V	17	NC
8	NC	18-22	4.5V
9	4.5V	23	9V
10-14	NC	24	5.2V

IC203

1	1.5-3.5V / 8.2V	BBE ON (+1-+6) / OFF
2	1.5-3.5V / 0V	
3	1.5-3.2V / 0V	
4	0V	BBE ON (+1-+6) / OFF
5	0-3.8V / 0V	
6, 7	1.8-8.2V / 8.2V	
8	9V	

IC221

1, 2	4.5V	
3	4V / 6.5V	BBE ON / OFF
4	3.5V	
5	4V / 6.5V	BBE ON / OFF
6	0V	
7	1.8-8.2V / 8.2V	BBE ON (+1-+6) / OFF
8	1.5-3.5V / 8.2V	BBE ON (+1-+6) / OFF
9	4V	
10	4.5V / 6.5V	BBE ON / OFF
11-14	4.5V	
15	9V	
16-18	4.5V	
19	9V	
20-24	4.5V	

IC241

1-3	0V
4	-8.83V
5-7	0V
8	9.13V

IC261

1-3	0V
4	-8.84V
5-7	0V
8	9.14V

IC251

1-3	0V
4	-8.83V
5-7	0V
8	9.12V

IC852

1-3	4.5V
4	0V
5-7	4.5V
8	9V

	E	C	B	MODE
Q202	0V / 0V	PS / 0V	5V / 0V	SEEK / POWER ON
Q203	0V / 0V	0V / 0V	0V / 2.7V	MUTE ON / OFF
Q271	0V / 0V	0V / 0V	0.7V / 0V	MUTE ON / OFF
Q272	0V / 0V	0V / 0V	0.7V / 0V	MUTE ON / OFF
Q281	0V / 0V	0V / 0V	0.7V / 0V	MUTE ON / OFF
Q282	0V / 0V	0V / 0V	0.7V / 0V	MUTE ON / OFF
Q291	0V / 0V	0V / 0V	0.7V / 0V	MUTE ON / OFF
Q292	0V / 0V	0V / 0V	0.7V / 0V	MUTE ON / OFF

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : Power ON, FM 98.1MHz, No Modulation

NOTE : ○ : For CDA-7944R Model Only,
△ : For CDA-7842R Model Only,
Others : Common.

NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

Schematic Diagram (3/6)

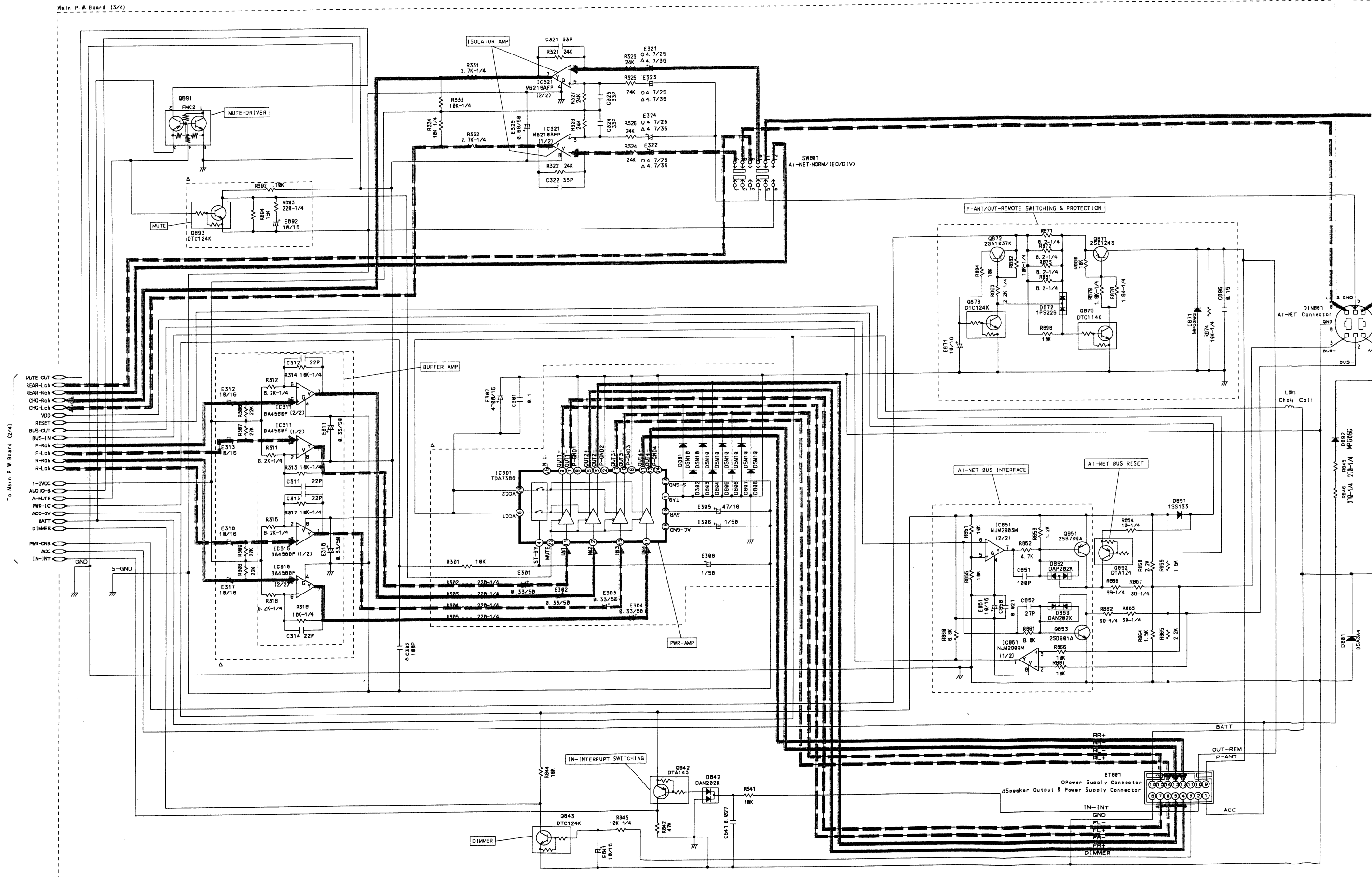
1

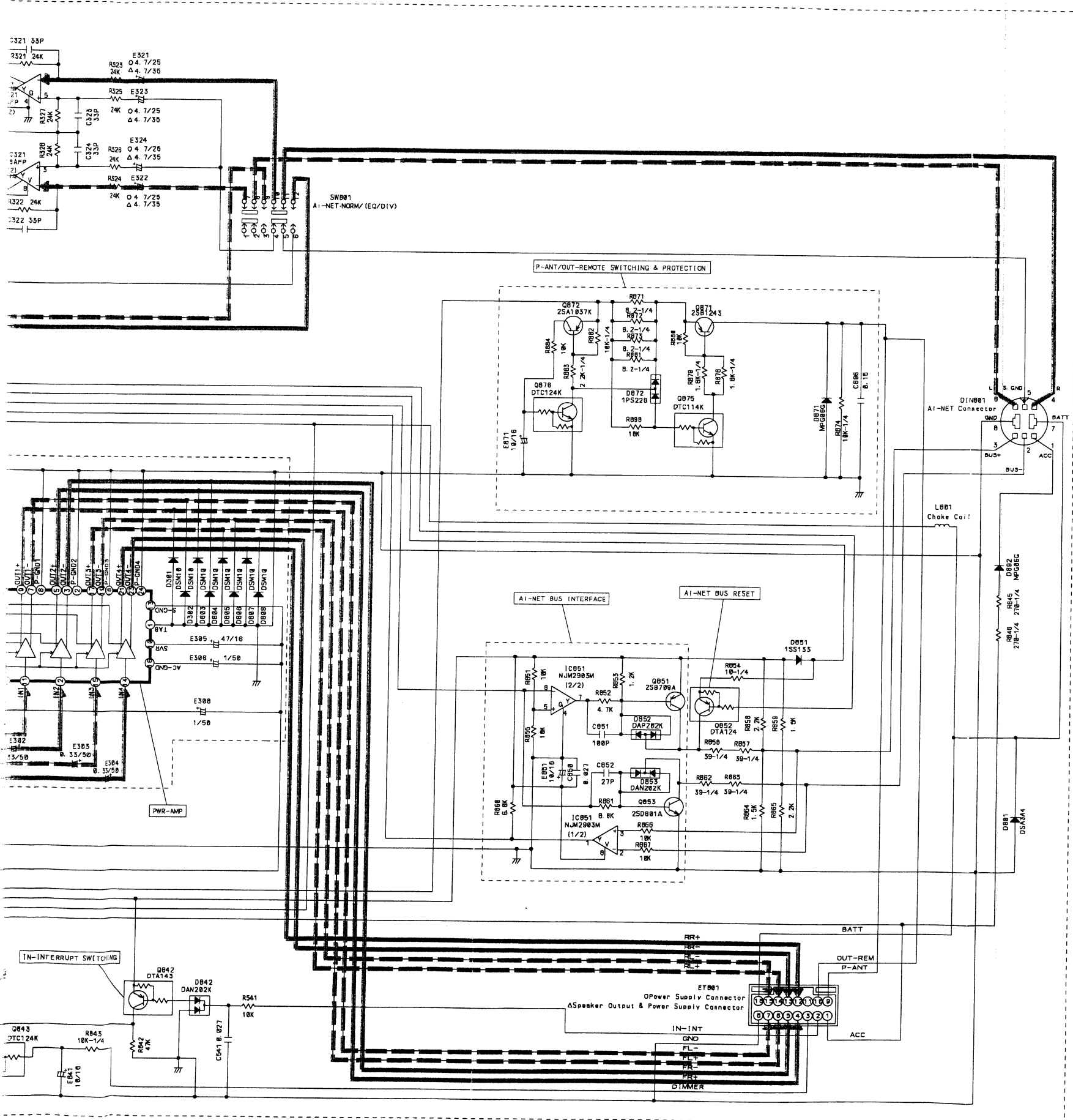
2

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4

5





△IC301

1, 2	0V	14	7.13V
3	7.26V	15	7.14V
4	5V / 0V	16	7.21V
5	7.24V	17	7.28V
6	14.2V	18	0V
7	7.22V	19	7.26V
8	0V	20	14.3V
9	7.26V	21	7.28V
10	7.23V	22	0V / 0.8V
11	7.14V	23	7.3V
12	7.13V	24	0V
13	0V	25	NC

△IC311, △IC315, IC321

1-3	4.5V
4	0V
5-7	4.5V
8	9V

IC851

1-3	PS / 0V	CHG / POWER ON
4	0V	
5	2.5V / 0V	
6, 7	PS / 0V	CHG / POWER ON
8	5V / 5V	

	E	C	B	MODE
Q842	5V / 5V	0V / 5V	5V / 3.2V	POWER ON / INT
Q843	0V / 0V	5V / 0V	0V / 0.3V	POWER ON / DIMMER
Q851	5V / 5V	PS / 2V	PS / 5V	CHG / POWER ON
Q852	5V / 5V	PS / 2V	5V / 5V	CHG / POWER ON
Q853	0V / 0V	PS / 3V	PS / 0V	CHG / POWER ON
Q871	14V	14V	13V	
Q872	14V	14V	3.5V	
Q875	0V	0V	3.7V	
Q876	0V	4.2V	0V	
△Q893	0V / 0V	0V / 0.8V	5V / 0V	MUTE ON / OFF

	1	2	3	4	5	MODE
Q891	NC	14V / -8.5V	14V / 14.1V	5V / 0V	0V / 0V	MUTE ON / OFF

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : Power ON, FM 98.1MHz, No Modulation

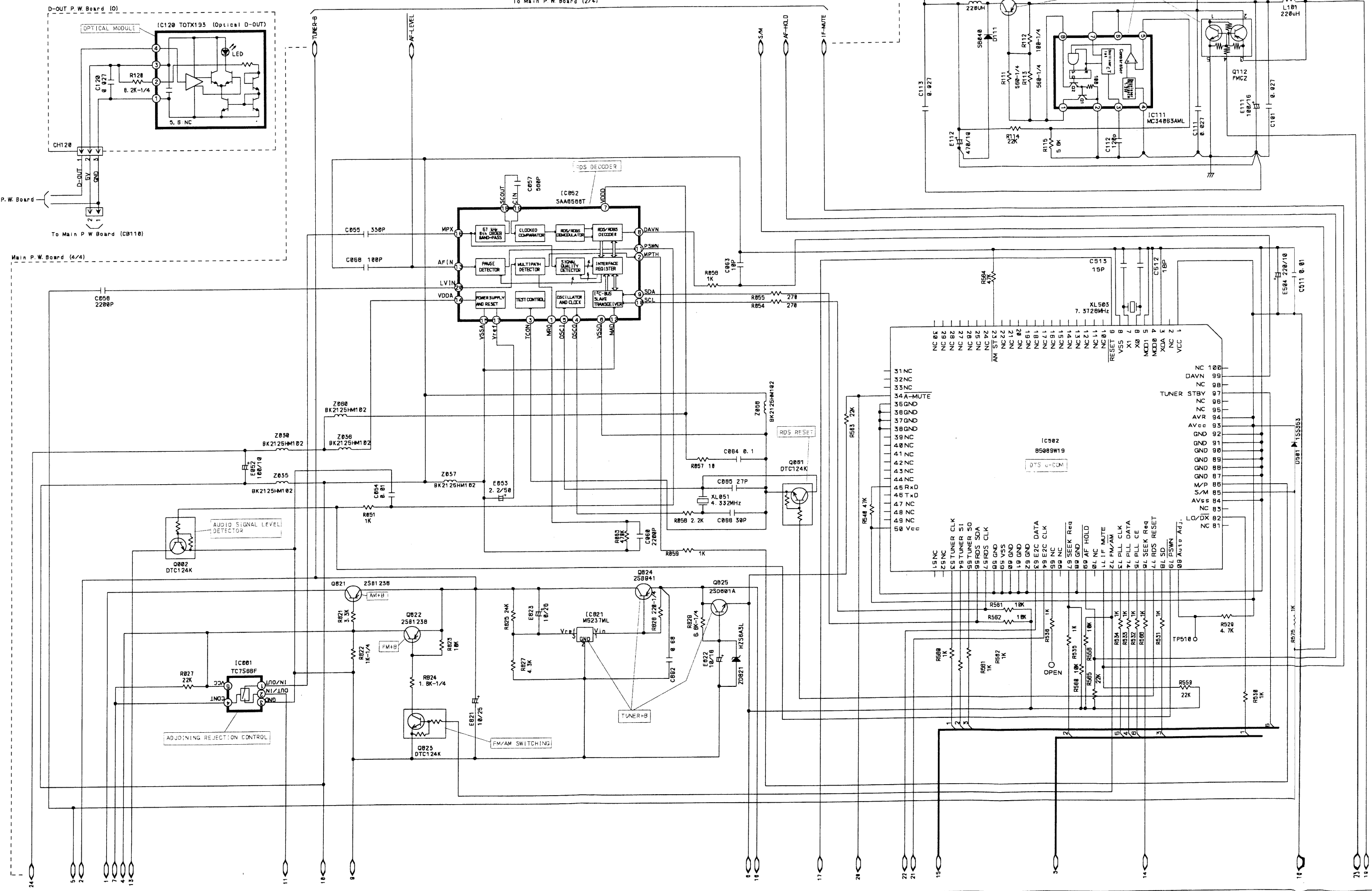
NOTE : ○ : For CDA-7944R Model Only,
△ : For CDA-7842R Model Only,
Others : Common.

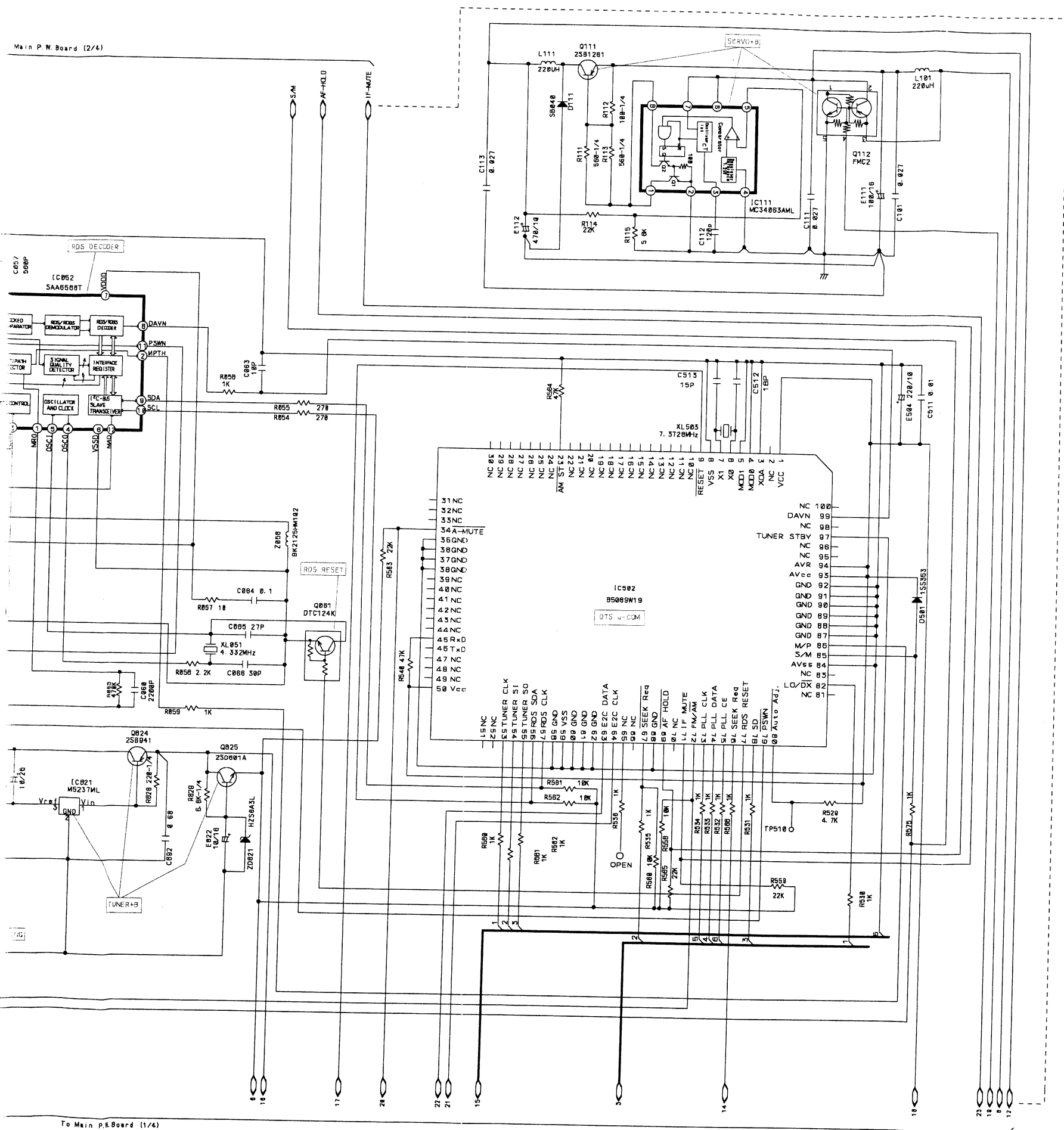
NOTE:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

Schematic Diagram (4/6)

1
2
3
4
5





1,2	5V
3	0V
4,5	8.2V

1-3	0V	11,12	0V
4,5	PS	13	2.5V
6,7	0V	14	5V
8	PS	15	0V
9	5V	16-20	2.5V
10	PS		

1	14.5V/PS	POWER ON / CD MODE
2	0V	
3	0V/PS	POWER ON / CD MODE
4	0V	
5	0V / 1.5V	
6,7	0V / 14.5V	POWER ON / CD MODE
8	14.5V / PS	

1	0V	
2	2.14V / 0V	CD PLAY / POWER ON
3	4.91V / 0V	
4	PS / 0V	at DIGITAL-OUT / POWER ON
5,6	NC	

1	5.08V	51,52	NC	80	5V	
2	NC	53-55	PS	81	NC	
3-5	0V	56,57	PS	82	5V / 0V	
6,7	OSC	58-62	0V	83	NC	
8	0V	63,64	5V	84	0V	
9	5.04V	65,66	NC	85	4.56V	
10-22	NC	67	0V / PS	POWER ON / SEEK	86	0V
23	0V	68	0V	87-92	0V	
24-33	NC	69	2.8V	93,94	5V	
34	5V	70	NC	95,96	NC	
35-38	0V	71	0V	97	5V	
39-44	NC	72	3.5V / 0V	FM / MW, LW	98	NC
45,46	5V	73,74	5V / PS	POWER ON / SEEK	99	PS
47-49	NC	75,76	0V / PS	100	NC	
50	5V	77-79	0V			

1	13.5V
2	0V
3	1.3V

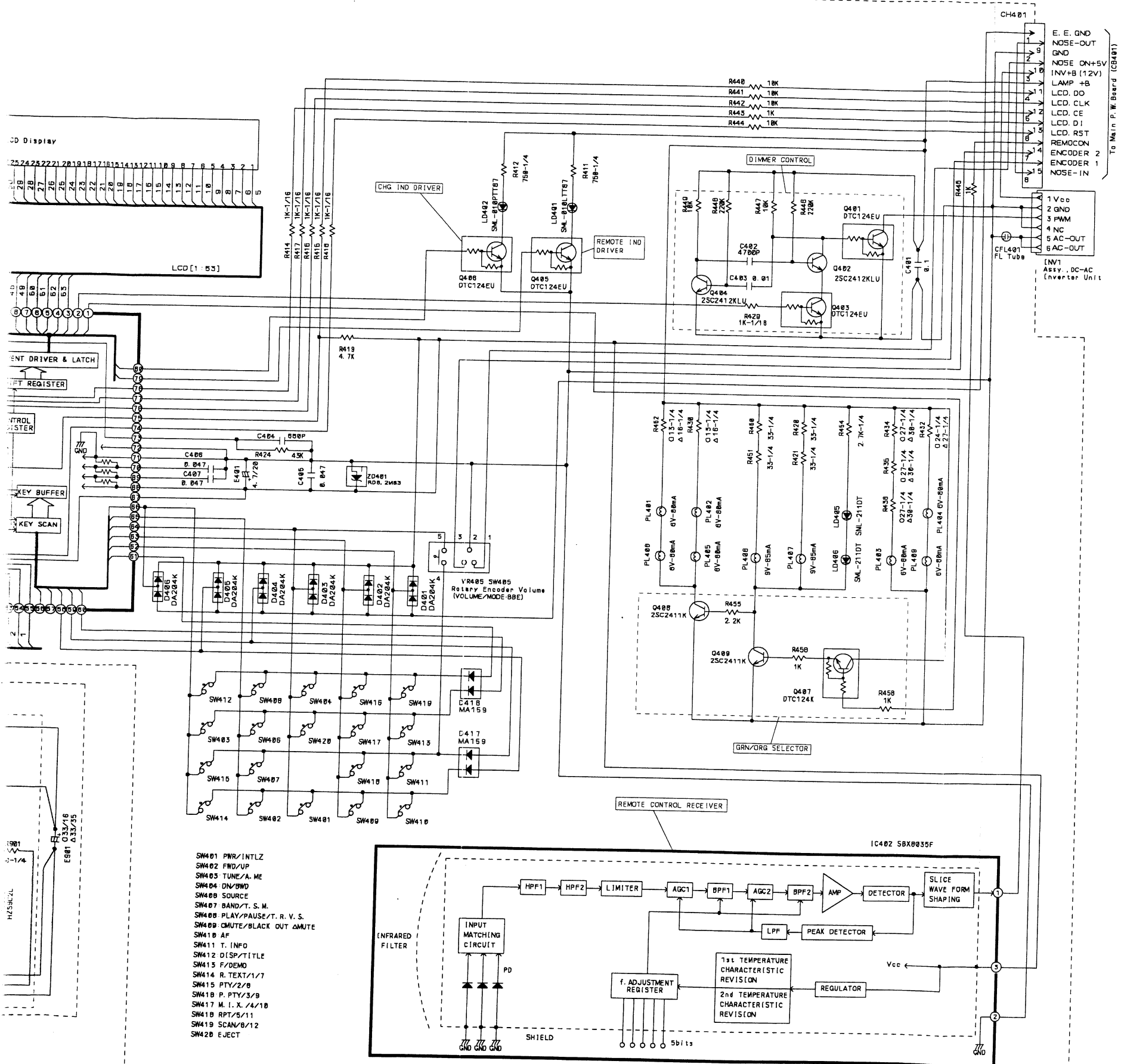
	E	C	B	MODE
Q002	0V	0V	0V	
Q061	0V	PS	0V	
Q111	14V	PS	13.5V	CD
Q821	8.5V / 7.4V	0V / 8V	8.5V / 8.1V	FM / MW, LW
Q822	8.3V / 8.3V	8.3V / 1.2V	7.5V / 8V	FM / MW, LW
Q823	0V / 0V	0V / 8.5V	3.5V / 0V	FM / MW, LW
Q824	14.2V	8.5V	13.3V	
Q825	5V	14V	5.7V	

	1	2	3	4	5	MODE
Q112	NC.	14V / 0V	14.1V / 14.1V	5.3V / 0V	0V / 0V	CD / EJECT

- [Measuring Conditions]
- Power Supply Voltage : DC14.4V
 - Measuring Meter : Digital Multi Voltmeter
 - Measuring Point Reference : Between Ground
 - Measuring Conditions : Power ON, FM 98.1MHz, No Modulation

NOTE : ○ : For CDA-7944R Model Only,
△ : For CDA-7842R Model Only,
Others : Common.

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$



IC401

1	0V/5V	GRN/ORG	70	2V	
2	5V/0V	DIM ON/OFF	71,72	0V	
3-55	PS		73	PS	
56,57	NC		74,75	5V	
58-61	5V		76-78	PS	
62-66	0V		79	5V/0V	REMO INDICATOR ON/OFF
67,68	5V		80	5V/0V	CHG INDICATOR ON/OFF
69	3.5V				

IC402

1	5V
2	0V
3	5V

IC901

1	9V
2	0V
3	13.5V

IC902

1	0V
2	-13.5V
3	-9V

	E	C	B	MODE
Q401	0V/0V	PS/0V	PS/8.2V	DIMMER ON/OFF
Q402	0V/8V	PS/8V	PS/8.2V	DIMMER ON/OFF
Q403	0V/0V	0V/8V	5V/0V	DIMMER ON/OFF
Q404	0V/0V	PS/0V	PS/0V	DIMMER ON/OFF
Q405	0V/0V	0V/10.3V	5V/0V	REMO INDICATOR ON/OFF
Q406	0V/0V	0V/10.3V	5V/0V	CHG INDICATOR ON/OFF
Q407	0V/3.5V	0V/12V	11.8V/5V	GRN/ORG
Q408	0V/0V	0V/11.8V	1.2V/0V	GRN/ORG
Q409	0V/0V	11.8V/0V	0V/1.2V	GRN/ORG
Q901	9.5V	10V	14.5V	
Q902	0V	PS	PS	
Q903	0V	PS	PS	

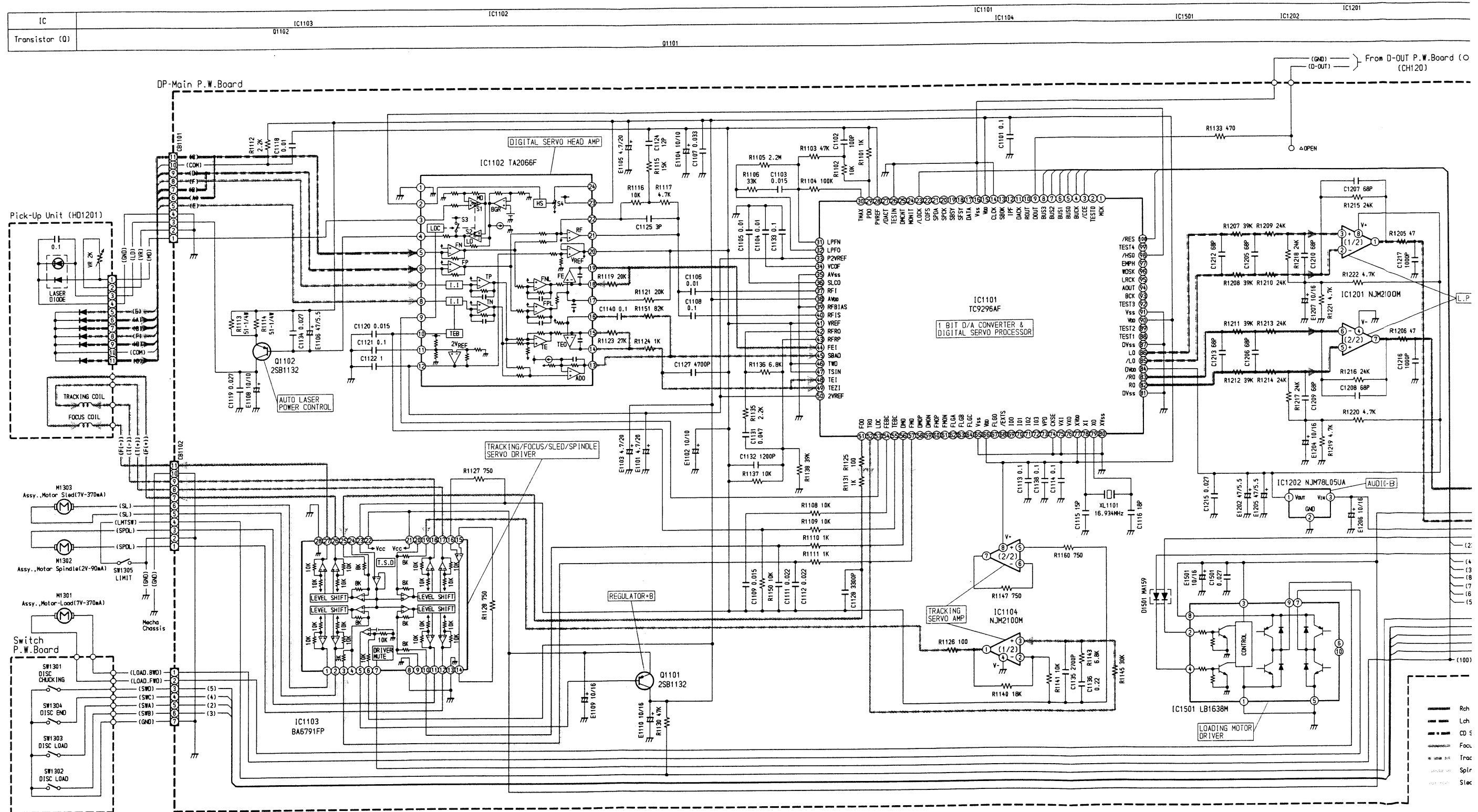
[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Conditions : Power ON, FM 98.1MHz, No Modulation

NOTE : ○ : For CDA-7944R Model Only,
△ : For CDA-7842R Model Only,
Others : Common.

NOTE:
1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = 1/1,000,000

Schematic Diagram (6/6)



1

2

3

4

5

A

B -38-

C

D

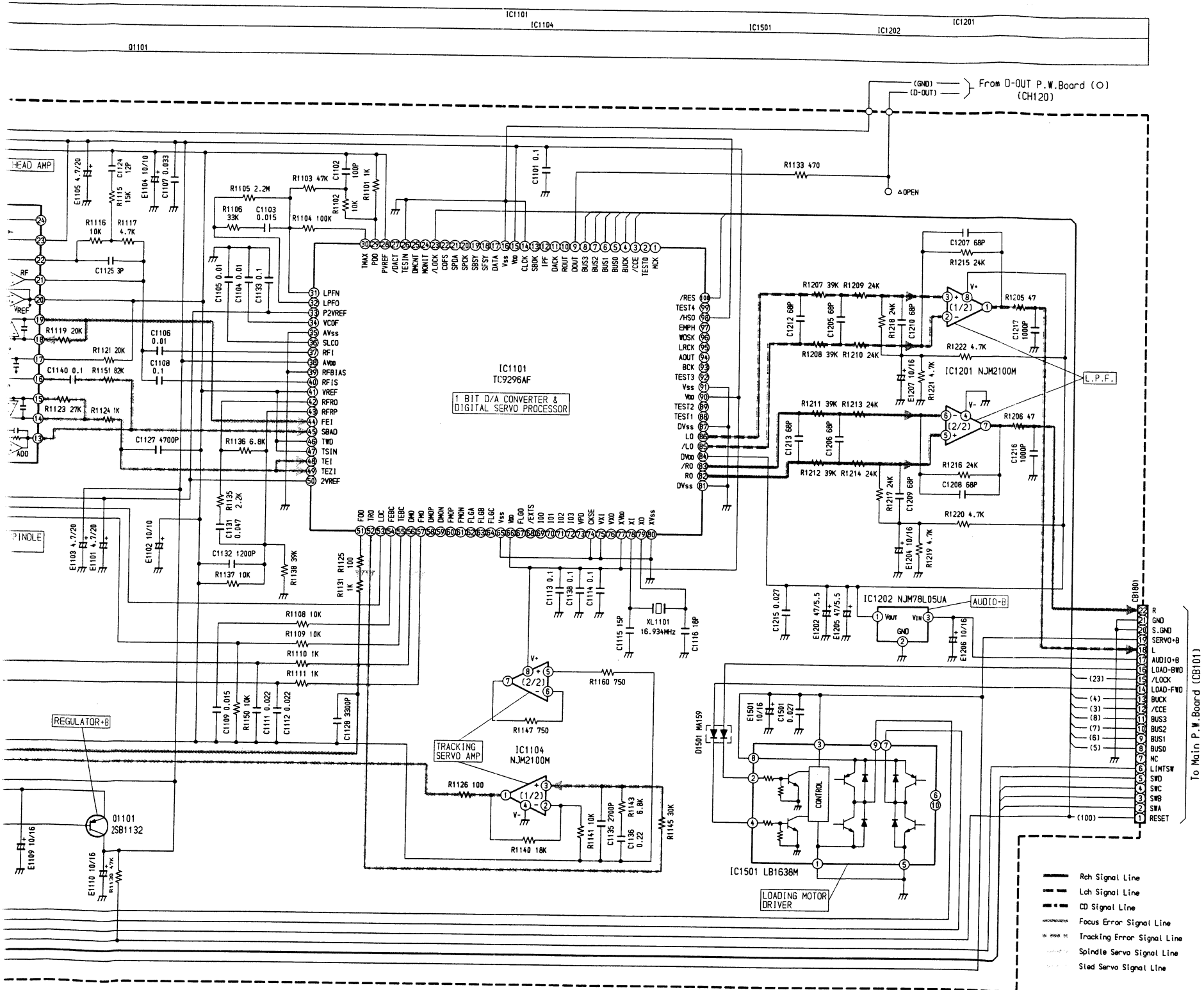
E

-39-

F

G

H



IC1101

1, 2	NC	33	4.3V	50	4.3V	82, 83	2.5V
3-9	PS	34	1.2V	51	2.1V	84	5V
10-13	NC	35	0V	52	2.2V	85, 86	2.5V
14	0V	36	2.2V	53	5V	87	0V
15	5V	37	0V	54-57	PS	88, 89	NC
16	0V	38	5V	58-64	NC	90	5V
17-22	NC	39	0V	65	0V	91	0V
23	0V	40	PS	66	5V	92-97	NC
24, 25	NC	41	2.2V	67-73	NC	98	5V
26	0V	42	3.6V	74, 75	0V	99	NC
27	NC	43	2.8V	76	NC	100	5V
28	2.1V	44	2.2V	77	5V		
29	PS	45	0V	78, 79	PS		
30-32	2.1V	46-49	2.2V	80, 81	0V		

IC1102

1	0V	13	2.7V
2	5V	14	2.2V
3	0.2V	15	2.2V
4	3.3V	16	2.2V
5	2.2V	17	2.4V
6	2.2V	18	2.4V
7	2V	19	2.3V
8	2V	20	2.2V
9	5V	21	PS
10	2.2V	22	2.2V
11	2.2V	23	5V
12	4.3V	24	NC

IC1103

1	3.3V	15	2.2V
2	3V	16	2.2V
3	2.2V	17	3.2V
4	NC	18	2.2V
5	5.5V	19	2.2V
6	5V	20	NC
7	6.3V	21	6.3V
8	0V	22	6.3V
9	NC	23	2.2V
10	2.3V	24	NC
11	3.5V	25	2.1V
12	2.9V	26	3V
13	0V	27	3.5V
14	2.2V	28	0V

IC1104

1	2.2V
2	2.2V
3	2.2V
4	0V
5	2.2V
6	2.2V
7	2.2V
8	5V

IC1201

1	2.5V
2	2.5V
3	2.5V
4	0V
5	2.5V
6	2.5V
7	2.5V
8	5V

IC1202

1	5V
2	0V
3	8.8V

IC1501

1	0V
2	0V
3	6.3V
4	0V
5	0V
6	NC
7	0V
8	6.3V
9	0V
10	NC

	E	C	B
Q1101	6.3V	5V	5.5V
Q1102	3.9V	1.8V	3.2V

[Measuring Conditions]

- Power Supply Voltage : DC14.4V
- Measuring Meter : Digital Multi Voltmeter
- Measuring Point Reference : Between Ground
- Measuring Condition : CD : Be playing back the 2nd Music of the test CD (YEDS-18).

NOTE:

- All resistance values are in ohms. K = 1,000
- All capacitance values are in microfarads. P = $\frac{1}{1,000,000}$

Description of IC Terminal

85312W84 : IC501

No.	Symbol	I/O	Terminal Description
1	Black-Out SEL	I	Black-Out Set Up Input Terminal.
2	ENCODER1	I	Encoder 1 Input Terminal.
3	ENCODER2	I	Encoder 2 Input Terminal.
4	AVSS	—	GND Connection Terminal.
5	BBE Low CONT	O	Low Side D / A Signal Output Terminal to BBE IC.
6	BBE Hi CONT	O	High Side D / A Signal Output Terminal to BBE IC.
7	AVREF	—	V _{DD} Connection Terminal.
8	DTS STS	I	Serial Data Signal Input Terminal from DTS μ -COM.
9	DTS CMD	O	Serial Data Signal Output Terminal to DTS μ -COM.
10	DTS CLK	O	Serial Clock Signal Output Terminal to DTS μ -COM.
11	LCD DO	I	Serial Data Signal Input Terminal from LCD Driver (LC75884W).
12	LCD DI	O	Serial Data Signal Output Terminal to LCD Driver (LC75884W).
13	LCD CLK	O	Serial Clock Signal Output Terminal to LCD Driver (LC75884W).
14	LCD CE	O	CE Signal Output Terminal to LCD Driver (LC75884W).
15	LCD RST	O	Reset Signal Output Terminal to LCD Driver (LC75884W).
16	E.VOL DATA	I/O	Serial Data Signal Input/Output Terminal to E-VOL (TDA7461).
17	E.VOL CLK	O	Serial Clock Signal Output Terminal to E-VOL (TDA7461).
18	CD CE	O	Latch Output Terminal for CD Auto Adjustment Monitor.
19	CD CLK	O	Clock Output Terminal for CD Auto Adjustment Monitor.
20	CD DATA	O	Data Output Terminal for CD Auto Adjustment Monitor.
21	SW-DATA	O	Serial Data Signal Output Terminal to Sub-W E-VOL (TEA6324T).
22	SW-CLK	O	Serial Clock Signal Output Terminal to Sub-W E-VOL (TEA6324T).
23	L-CONT	O	Power Control Signal Output Terminal for Disc Detection.
24	NC	—	No Connection Terminal.
25	LOAD FWD	O	Forward Driving Active Signal Output Terminal for Loading Motor.
26	LOAD BWD	O	Backward Driving Active Signal Output Terminal for Loading Motor.
27			
28	NC	—	No Connection Terminal.
29			
30	SW-3	I	Eject End Detection Signal Input Terminal.
31	SW-4	I	Disc Chucking Position Detection Signal Input Terminal.
32	V-CONT	O	CD Power Control Terminal.
33	GND	—	GND Connection Terminal.
34	LIMIT-SW	I	Inner Limit Detection Signal Input Terminal.
35	LSI-RST	O	System Reset Signal Output Terminal to Digital Servo IC (TC9296AF). (Pull-Down Connection)
36	BUS-0		
37	BUS-1		
38	BUS-2	I/O	Communication Input/Output Terminal to CD Signal Processor IC.
39	BUS-3		

No.	Symbol	I/O	Terminal Description
40	BUCK	O	Communication Output Terminal to CD Signal Processor IC.
41	CCE	O	Communication Output Terminal to CD Signal Processor IC.
42	LOCK	I	Lock Status Input Terminal.
43	MUTE	O	Audio Mute Signal Output Terminal. (H : Mute ON)
44	NC	—	No Connection Terminal.
45	DTS MUTE	I	Mute Signal Input Terminal from DTS μ -COM.
46	BUZZER	O	Guide Tone Buzzer Signal Output Terminal.
47	NC	—	No Connection Terminal.
48			
50			
51	DTS STBY	O	Stand-by ON/OFF Signal Output Terminal to DTS μ -COM. (H : STBY ON)
52	NC	—	No Connection Terminal.
53	CFL+B ON	O	Power Control Signal Output Terminal for LCD Backlighting.
54	NOSE POWER	O	Power Control Signal Output Terminal for LCD Driver.
55	POWER ON	O	Power Control Signal Output Terminal for Audio and Key Lighting.
56	○ NC	—	No Connection Terminal.
	△ POWER IC	O	Power IC Stand-by Control Signal Output Terminal.
57	NC	—	No Connection Terminal.
58	IN DIMMER	I	Dimmer Control Input Terminal. (L : Dimmer ON)
59	IN INT	I	IN-Interrupt Input Terminal.
60	RESET	I	System Reset Signal Input Terminal.
61	REMOCON	I	Remote Control Data Signal Input Terminal.
62	BAT DET	I	Battery Detection Signal Input Terminal.
63	ACC DET	I	ACC Detection Signal Input Terminal.
64	BUS-IN	I	Ai-NET BUS Data Signal Input Terminal.
65	SW-1	I	Disc Insert Detection Signal Input Terminal (1).
66	BUS-OUT	O	Ai-NET BUS Data Signal Output Terminal.
67	SW-2	I	Disc Insert Detection Signal Input Terminal (2).
68	V _{DD}	—	V _{DD} Connection Terminal.
69	X2	—	System Clock OSC Circuit Output Terminal.
70	X1	—	System Clock OSC Circuit Input Terminal.
71	GND	—	GND Connection Terminal.
72	NC	—	No Connection Terminal.
73	GND	—	GND Connection Terminal.
74	AV _{DD}	—	Analog Power Input Terminal of A/D and D/A Converter. (V _{DD} Connection)
75	V _{DD}	—	V _{DD} Connection Terminal.
76	Dig-Out SEL	I	Digital Out Set Up Input Terminal.
77	INTLZ	I	INTLZD Action Cancellation Signal Input Terminal.
78	SUB-W SEL	I	Sub-W Set Up Terminal.
79	T-SENS	I	Temperature Sensor Signal Input Terminal.
80	NOSE ON	I	NOSE ON Detection Terminal.

85089W19: IC502

No.	Symbol	I/O	Terminal Description
1	VCC	—	+5V Connection Terminal.
2	NC	—	No Connection Terminal.
3	X0A	—	GND Connection Terminal.
4	MOD0		
5	MOD1		
6	X0	O	Crystal Connection Terminal. (8MHz)
7	X1	I	
8	VSS	—	GND Connection Terminal.
9	RESET	I	Reset Signal Input Terminal. (RESET:L)
10	NC	—	No Connection Terminal.
11			
22			
23	AMST	I	AM ST Signal Input Terminal. (Connection Pull-Down)
24	NC	—	No Connection Terminal.
25			
33			
34	A-MUTE	O	Tuner Mute Signal Output Terminal. (MUTE ON:L)
35	GND	—	GND Connection Terminal.
38			
39	NC	—	No Connection Terminal.
44			
45	RxD	I	RDS Monitor Input Terminal. (Pull-Up Connection)
46	TxD	O	RDS Monitor Output Terminal.
47	NC	—	No Connection Terminal.
49			
50	VCC	—	VCC Connection Terminal.
51	NC	—	No Connection Terminal.
52			
53	TUNER CLK	I	Clock Signal Input Terminal from Main μ -COM.
54	TUNER SI	I	Serial Input Terminal from Main μ -COM.
55	TUNER SO	O	Serial Output Terminal to Main μ -COM.
56	RDS SDA	I/O	RDS I2C Data Input/Output Terminal.
57	RDS CLK	O	RDS I2C Clock Output Terminal.
58	GND	—	GND Connection Terminal.
59	VSS	—	
60	GND	—	
61			
62			

No.	Symbol	I/O	Terminal Description
63	E2P SDA	I/O	E2P-ROM Data Input/Output Terminal.
64	E2P CLK	O	E2P-ROM Clock Output Terminal.
65	NC	—	No Connection Terminal.
66			
67	$\overline{\text{SEEK Req.}}$	O	Seek Speed Control Terminal. (Tuner//During SEEK:L)
68	GND	—	GND Connection Terminal.
69	$\overline{\text{AF HOLD}}$	O	AF Hold Output Terminal. (Tuner Set Up Hold:L)
70	NC	—	No Connection Terminal.
71	IF MUTE	O	IF Mute Control Terminal. (Pull-Up Connection)
72	FM/ $\overline{\text{AM}}$	O	FM/AM Switching Terminal. (FM:H)
73	PLL CLK	O	PLL Clock Output Terminal.
74	PLL DATA	I/O	PLL Data Input/Output Terminal. (Pull-Up Connection)
75	PLL CE	O	PLL CE Output Terminal.
76	SEEK Req.	O	Seek Speed Control Terminal. (Tuner/During SEEK:H)
77	RDS RESET	O	Power ON Reset Terminal of RDS Decoder (SAA6588T).
78	SD	I	SD Input Terminal. (Tuner/Station ON:H)
79	$\overline{\text{PSWN}}$	I	Audio Signal Level Detection Terminal from RDS Decoder (SAA6588T). (No Station:L)
80	$\overline{\text{Auto Adj.}}$	I	Auto Adjustment Terminal. (Auto Adjustment Start:L)
81	NC	—	No Connection Terminal.
82	LO/ $\overline{\text{DX}}$	O	Local Seek/DX Seek Switching Terminal. (Tuner/Local Seek:H)
83	NC	—	No Connection Terminal.
84	AVSS	—	GND Connection Terminal.
85	S/M	I	Field Strength Input Terminal. (A/D, Tuner)
86	M/P	I	Multi Path Detection Input Terminal. (A/D, SAA6588T)
87	GND	—	GND Connection Terminal.
91			
92			
93	AVCC	—	VCC Connection Terminal.
94	AVR		
95	NC	—	No Connection Terminal.
96			
97	TUNER STBY	I	Stand-by Input Terminal from Main μ -COM.
98	NC	—	No Connection Terminal.
99	DAVN	I	RDS Data Available Input Terminal. (SAA6588T)
100	NC	—	No Connection Terminal.

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Electrical Parts List

Resistor : Carbon resistors under 1/4 watts are not mentioned in the parts list, please confirm them by schematic diagram.

Capacitor : μ F=microfarads, pF=picofarads

Abbreviations				Symbol No.	Part No.	Description
RES.= Resistor	CAP.= Capacitor			Q081	48T62967F03	CP., DTC124K
C.F.= Carbon Film	ELY.= Electrolytic			Q101	48T73888F12	CP., FMC2
M.F.= Metal Film	CER.= Ceramic			Q102	48T73888F12	CP., FMC2
M.O.= Metal Oxide Film	MYL.= Mylar		○	Q110	48T73888F13	CP., FMC3
M.P.= Metal Plate	TAN.= Tantalum			Q111	48T15511W02	CP., 2SB1261
TR. = Transistor	POLY.= Polystyrol			Q112	48T73888F12	CP., FMC2
TRANS.= Transformer	PP. = Polypropylene			Q202	48T62967F03	CP., DTC124K
CP. = Chip	PLT.= Polyethylene			Q203	48T62967F03	CP., DTC124K
	PF. = Polyester Film			Q271	48T63788F04	CP., 2SD1328
				Q272	48T63788F04	CP., 2SD1328
Symbol No. Part No. Description						
Main P.W.Board						
IC's						
	IC001	51T15731W10	TC7S66F			
	IC002	51T93332F01	NJM2903M			
	IC052	51T15132Y01	SAA6588T			
	IC111	51T15510W01	MC34063AML			
	IC201	51T15404Y01	TDA7461DTR			
	IC202	51T15168Y01	TEA6324T			
	IC203	51T15420Y01	BA4560F			
	IC221	51T95043W01	BA3884F			
	IC241	51T92001F21	XRA4560F			
○	IC251	51T25576W04	NJM4580E			
△	IC251	51T92001F21	XRA4560F			
○	IC261	51T25576W04	NJM4580E			
△	IC261	51T92001F21	XRA4560F			
△	IC301	51T15021Y01	TDA7386			
△	IC311	51T15420Y01	BA4560F			
△	IC315	51T15420Y01	BA4560F			
	IC321	51T90149F03	M5218AFP			
	IC501	51T85312W84	85312W84			
	IC502	51T85089W19	85089W19			
	IC503	51T95563W01	S-80744HL			
	IC504	51T15343Y01	ST24C04FM6TR			
	IC611	51T95014F13	S-8052HNM-CR			
	IC810	51T92001F21	XRA4560F			
	IC821	51T45035W02	M5237ML			
	IC851	51T93332F01	NJM2903M			
	IC852	51T93333F01	NJM2904M			
Transistors/FET						
	Q002	48T62967F03	CP., DTC124K			
	Q004	48T62967F09	CP., DTC114TK			
	Q020	48T73888F13	CP., FMC3			
	Q041	48T73888F12	CP., FMC2			
	Q061	48T62967F03	CP., DTC124K			
	Q081	48T62967F03	CP., DTC124K			
	Q101	48T73888F12	CP., FMC2			
	Q102	48T73888F12	CP., FMC2			
○	Q110	48T73888F13	CP., FMC3			
	Q111	48T15511W02	CP., 2SB1261			
	Q112	48T73888F12	CP., FMC2			
	Q202	48T62967F03	CP., DTC124K			
	Q203	48T62967F03	CP., DTC124K			
	Q271	48T63788F04	CP., 2SD1328			
	Q272	48T63788F04	CP., 2SD1328			
	Q281	48T63788F04	CP., 2SD1328			
	Q282	48T63788F04	CP., 2SD1328			
	Q291	48T63788F04	CP., 2SD1328			
	Q292	48T63788F04	CP., 2SD1328			
	Q501	48T92368F04	CP., 2SD1760			
	Q502	48T63420F01	CP., 2SA1037K			
	Q503	48T62967F02	CP., DTC114K			
	Q504	48T62967F02	CP., DTC114K			
	Q505	48T63420F01	CP., 2SA1037K			
	Q506	48T62967F02	CP., DTC114K			
	Q507	48T62967F03	CP., DTC124K			
	Q511	48T62967F09	CP., DTC114TK			
	Q512	48T62966F03	CP., DTA124			
	Q513	48T73888F12	CP., FMC2			
	Q601	48T62967F03	CP., DTC124K			
	Q801	48T84366F04	2SB1243			
	Q802	48T62967F05	CP., DTC143XK			
	Q803	48T73888F12	CP., FMC2			
○	Q804	48T52443F04	FET, CP. 2SK198			
○	Q806	48T69176F02	2SC3421			
△	Q806	48T93828F01	2SD1994A			
	Q821	48T84234F04	2SB1238			
	Q822	48T84234F04	2SB1238			
	Q823	48T62967F03	CP., DTC124K			
	Q824	48T56030F04	2SB941			
	Q825	48T52438F01	CP., 2SD601A			
	Q831	48T92368F04	CP., 2SD1760			
	Q832	48T73888F13	CP., FMC3			
	Q842	48T62966F01	CP., DTA143			
	Q843	48T62967F03	CP., DTC124K			
	Q851	48T52437F01	CP., 2SB709A			
	Q852	48T62966F03	CP., DTA124			
	Q853	48T52438F01	CP., 2SD601A			
	Q871	48T84366F04	2SB1243			
	Q872	48T63420F01	CP., 2SA1037K			
	Q875	48T62967F02	CP., DTC114K			

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Symbol No.	Part No.	Description
Q876	48T62967F03	CP., DTC124K
Q891	48T73888F12	CP., FMC2
△ Q893	48T62967F03	CP., DTC124K
Diodes		
D002	48T15437Y01	CP., HSM123
D111	48T85269W02	SB040
D271	48T75404W01	CP., 1SS353
D272	48T75404W01	CP., 1SS353
D281	48T75404W01	CP., 1SS353
D282	48T75404W01	CP., 1SS353
D291	48T75404W01	CP., 1SS353
D292	48T75404W01	CP., 1SS353
△ D301	48T15512W01	CP., DSM10
△ D302	48T15512W01	CP., DSM10
D501	48T75404W01	CP., 1SS353
D502	48T63462F01	CP., DAN202K
D511	48T68828F11	1SS133
D611	48T68828F11	1SS133
D801	48T68580F03	DSA3A4
△ D803	48T15512W01	CP., DSM10
△ D804	48T15512W01	CP., DSM10
△ D805	48T15512W01	CP., DSM10
△ D806	48T15512W01	CP., DSM10
△ D807	48T15512W01	CP., DSM10
△ D808	48T15512W01	CP., DSM10
D842	48T63462F01	CP., DAN202K
D851	48T68828F11	1SS133
D852	48T63463F01	CP., DAP202K
D853	48T63462F01	CP., DAN202K
D871	48T85270W02	MPG06G
D872	48T85357W01	CP., 1PS226
D892	48T85270W02	MPG06G
ZD501	48T25766W03	Zener, HZS6A3L
ZD502	48T90517F22	Zener, HZS4.7NB3
ZD511	48T25766W18	Zener, HZS7C3L
ZD806	48T25766W24	Zener, HZS9C1L
ZD821	48T25766W03	Zener, HZS6A3L
ZD831	48T25766W31	Zener, HZS11B2L
Buzzer		
BZ601	50T85541W01	CD11PA-XZ

Symbol No.	Part No.	Description
Crystals		
XL051	91T85169W18	4.332MHz
XL501	91T85169W17	4.1943MHz
XL503	91T85169W44	7.3728MHz
Coils		
L001	24T65172W17	Inductor, CP. 4.7μH
L002	24T16403W29	Inductor, CP. 15μH
L003	24T15267Y01	7TL
L101	24T16271W13	220μH
○ L110	24T65053W22	Inductor, CP. 10μH
L111	24T16271W13	220μH
L503	24T16403W15	Inductor, CP. 1μH
L504	24T16403W15	Inductor, CP. 1μH
L801	24T75055W08	Choke
Surge Protector		
DSP001	48T81048F02	DSP-201M
Switches		
SW611	40T16096W03	Tact, SKHHLW (RESET)
SW801	40T45282W01	Slide, SLD-42-508 (AI-NET • NORM/(EQ/DIV))
Filters		
LPF001	91T75257W02	LPF, LPF11830KH
Z005	91T65112W06	EMI, CP. BK2125HM102
Z030	91T65112W06	EMI, CP. BK2125HM102
Z035	91T65112W06	EMI, CP. BK2125HM102
Z036	91T65112W06	EMI, CP. BK2125HM102
Z037	91T65112W06	EMI, CP. BK2125HM102
Z040	91T65112W06	EMI, CP. BK2125HM102
Z058	91T65112W06	EMI, CP. BK2125HM102
Z060	91T65112W06	EMI, CP. BK2125HM102
Thermistor		
TH501	48T93439F06	100K ohm

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
Capacitors					
	C003	08T15399W04 CP., 0.027 μ F		C263	08S65128F58 CP., 1200pF
	C004	08T15399W04 CP., 0.027 μ F		C264	08T55390W29 TF, 0.1 μ F
	C005	08T15399W04 CP., 0.027 μ F		C265	08T55390W29 TF, 0.1 μ F
	C006	08S65128F67 CP., 6800pF		C266	08T15399W04 CP., 0.027 μ F
	C007	08S82122F37 CP., 100pF		C267	08S82122F61 CP., 1000pF
	C008	08S82122F61 CP., 1000pF		C268	08S82122F63 CP., 3300pF
	C009	08S82122F53 CP., 470pF		C301	08S35374W01 CP., 0.1 μ F
	C010	08S35374W01 CP., 0.1 μ F		Δ C302	08S82122F37 CP., 100pF
	C041	08T15399W01 CP., 0.022 μ F		Δ C311	08S82122F21 CP., 22pF
	C054	08S53332F47 CP., 0.01 μ F		Δ C312	08S82122F21 CP., 22pF
	C055	08S82122F49 CP., 330pF		Δ C313	08S82122F21 CP., 22pF
	C057	08S82122F55 CP., 560pF		Δ C314	08S82122F21 CP., 22pF
	C058	08S65128F61 CP., 2200pF		C321	08S82122F25 CP., 33pF
	C060	08S65128F61 CP., 2200pF		C322	08S82122F25 CP., 33pF
	C063	08S82122F13 CP., 10pF		C323	08S82122F25 CP., 33pF
	C064	08S35374W01 CP., 0.1 μ F		C324	08S82122F25 CP., 33pF
	C065	08S82122F23 CP., 27pF		C501	08T15399W04 CP., 0.027 μ F
	C066	08S82122F24 CP., 30pF		C502	08S82122F19 CP., 18pF
	C068	08S82122F37 CP., 100pF		C503	08S82122F19 CP., 18pF
	C101	08T15399W04 CP., 0.027 μ F		C510	08T15399W04 CP., 0.027 μ F
\circ	C109	08T15399W04 CP., 0.027 μ F		C511	08S65128F69 CP., 0.01 μ F
\circ	C110	08T15399W04 CP., 0.027 μ F		C512	08S82122F19 CP., 18pF
	C111	08T15399W04 CP., 0.027 μ F		C513	08S82122F17 CP., 15pF
	C112	08S82122F39 CP., 120pF		C515	08S82122F37 CP., 100pF
	C113	08T15399W04 CP., 0.027 μ F		C516	08S82122F65 CP., 1500pF
	C203	08S35374W01 CP., 0.1 μ F		C517	08S35374W01 CP., 0.1 μ F
	C204	08S35374W01 CP., 0.1 μ F		C541	08T15399W04 CP., 0.027 μ F
	C206	08S35374W01 CP., 0.1 μ F		C601	08S82122F53 CP., 470pF
	C221	08S65128F69 CP., 0.01 μ F		C850	08T15399W04 CP., 0.027 μ F
	C222	08T15399W03 CP., 0.047 μ F		C851	08S82122F37 CP., 100pF
	C223	08T15399W03 CP., 0.047 μ F		C852	08S82122F23 CP., 27pF
	C224	08S65128F69 CP., 0.01 μ F		C888	08S82122F37 CP., 100pF
	C225	08S82122F53 CP., 470pF		C892	08T35122W23 PF., 0.68 μ F
	C226	08T15399W05 CP., 0.068 μ F		C896	08T55390W31 TF, 0.15 μ F
	C227	08T15399W05 CP., 0.068 μ F		C897	08S35374W01 CP., 0.1 μ F
	C228	08S82122F53 CP., 470pF		\circ E001	23T75462W06 ELY., 100 μ F / 10V
	C231	08S65128F69 CP., 0.01 μ F		Δ E001	23S75372W02 ELY., 100 μ F / 10V
	C235	08T15399W02 CP., 0.033 μ F		\circ E003	23T75462W07 ELY., 220 μ F / 10V
	C236	08T15399W02 CP., 0.033 μ F		Δ E003	23S75372W03 ELY., 220 μ F / 10V
	C239	08T55390W14 PF., 5600pF		\circ E004	23T75462W09 ELY., 22 μ F / 16V
	C240	08T55390W14 PF., 5600pF		Δ E004	23S75372W05 ELY., 22 μ F / 16V
	C241	08S82122F27 CP., 39pF		\circ E005	23T75462W19 ELY., 0.33 μ F / 50V
	C242	08S82122F27 CP., 39pF		Δ E005	23S75372W12 ELY., 0.33 μ F / 50V
	C251	08S82122F27 CP., 39pF		\circ E007	23T75462W22 ELY., 1 μ F / 50V
	C252	08S82122F27 CP., 39pF		Δ E007	23S75372W15 ELY., 1 μ F / 50V
	C261	08S82122F27 CP., 39pF		\circ E008	23T75462W08 ELY., 10 μ F / 16V
	C262	08S82122F27 CP., 39pF		Δ E008	23S75372W04 ELY., 10 μ F / 16V
				\circ E052	23T75462W06 ELY., 100 μ F / 10V
				Δ E052	23S75372W02 ELY., 100 μ F / 10V

NOTE : \circ : For CDA-7944R Model Only, Δ : For CDA-7842R Model Only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
○ E053	23T75462W23	ELY., 2.2μF / 50V	△ E224	23S75372W09	ELY., 4.7μF / 35V
△ E053	23S75372W16	ELY., 2.2μF / 50V	○ E225	23T75462W30	ELY., 4.7μF / 25V
○ E101	23T75462W23	ELY., 2.2μF / 50V	△ E225	23S75372W09	ELY., 4.7μF / 35V
△ E101	23S75372W16	ELY., 2.2μF / 50V	○ E226	23T75462W30	ELY., 4.7μF / 25V
○ E110	23T75462W08	ELY., 10μF / 16V	△ E226	23S75372W09	ELY., 4.7μF / 35V
○ E111	23T75462W12	ELY., 100μF / 16V	○ E227	23T75462W30	ELY., 4.7μF / 25V
△ E111	23S75372W08	ELY., 100μF / 16V	△ E227	23S75372W09	ELY., 4.7μF / 35V
E112	23T55378W03	ELY., 470μF / 10V	○ E228	23T75462W22	ELY., 1μF / 50V
○ E201	23T75462W30	ELY., 4.7μF / 25V	△ E228	23S75372W15	ELY., 1μF / 50V
△ E201	23S75372W09	ELY., 4.7μF / 35V	○ E229	23T75462W21	ELY., 0.68μF / 50V
○ E202	23T75462W30	ELY., 4.7μF / 25V	△ E229	23S75372W14	ELY., 0.68μF / 50V
△ E202	23S75372W09	ELY., 4.7μF / 35V	○ E230	23T75462W21	ELY., 0.68μF / 50V
○ E205	23T75462W30	ELY., 4.7μF / 25V	△ E230	23S75372W14	ELY., 0.68μF / 50V
△ E205	23S75372W09	ELY., 4.7μF / 35V	○ E235	23S75372W11	ELY., 47μF / 16V
○ E206	23T75462W30	ELY., 4.7μF / 25V	△ E235	23S75372W07	ELY., 47μF / 16V
△ E206	23S75372W09	ELY., 4.7μF / 35V	○ E236	23T75462W12	ELY., 100μF / 16V
○ E207	23T75462W30	ELY., 4.7μF / 25V	△ E236	23S75372W08	ELY., 100μF / 16V
△ E207	23S75372W09	ELY., 4.7μF / 35V	○ E237	23T75462W19	ELY., 0.33μF / 50V
○ E208	23T75462W30	ELY., 4.7μF / 25V	△ E237	23S75372W12	ELY., 0.33μF / 50V
△ E208	23S75372W09	ELY., 4.7μF / 35V	○ E238	23T45365W04	ELY., 47μF / 25V
○ E209	23T75462W08	ELY., 10μF / 16V	△ E238	23S75372W07	ELY., 47μF / 16V
△ E209	23S75372W04	ELY., 10μF / 16V	○ E239	23T45365W04	ELY., 47μF / 25V
○ E210	23T75462W08	ELY., 10μF / 16V	△ E239	23S75372W07	ELY., 47μF / 16V
△ E210	23S75372W04	ELY., 10μF / 16V	○ E240	23T75462W09	ELY., 22μF / 16V
○ E211	23T75462W09	ELY., 22μF / 16V	△ E240	23S75372W05	ELY., 22μF / 16V
△ E211	23S75372W05	ELY., 22μF / 16V	○ E241	23T75462W20	ELY., 0.47μF / 50V
○ E212	23T75462W24	ELY., 3.3μF / 50V	△ E241	23S75372W12	ELY., 0.33μF / 50V
△ E212	23S75372W09	ELY., 4.7μF / 35V	○ E242	23T75462W20	ELY., 0.47μF / 50V
○ E213	23T75462W23	ELY., 2.2μF / 50V	△ E242	23S75372W12	ELY., 0.33μF / 50V
△ E213	23S75372W16	ELY., 2.2μF / 50V	△ E243	23S95415W06	ELY., 100μF / 16V
○ E214	23T75462W23	ELY., 2.2μF / 50V	○ E251	23T75462W20	ELY., 0.47μF / 50V
△ E214	23S75372W16	ELY., 2.2μF / 50V	△ E251	23S75372W12	ELY., 0.33μF / 50V
○ E215	23T75462W23	ELY., 2.2μF / 50V	○ E252	23T75462W20	ELY., 0.47μF / 50V
△ E215	23S75372W16	ELY., 2.2μF / 50V	△ E252	23S75372W12	ELY., 0.33μF / 50V
○ E216	23T75462W23	ELY., 2.2μF / 50V	○ E261	23T75462W20	ELY., 0.47μF / 50V
△ E216	23S75372W16	ELY., 2.2μF / 50V	△ E261	23S75372W12	ELY., 0.33μF / 50V
○ E217	23T75462W21	ELY., 0.68μF / 50V	○ E262	23T75462W20	ELY., 0.47μF / 50V
△ E217	23S75372W14	ELY., 0.68μF / 50V	△ E262	23S75372W12	ELY., 0.33μF / 50V
○ E218	23T75462W08	ELY., 10μF / 16V	○ E271	23T75462W08	ELY., 10μF / 16V
△ E218	23S75372W04	ELY., 10μF / 16V	△ E271	23S75372W04	ELY., 10μF / 16V
○ E219	23T75462W08	ELY., 10μF / 16V	○ E272	23T75462W08	ELY., 10μF / 16V
△ E219	23S75372W04	ELY., 10μF / 16V	△ E272	23S75372W04	ELY., 10μF / 16V
○ E221	23T75462W22	ELY., 1μF / 50V	○ E281	23T75462W24	ELY., 3.3μF / 50V
△ E221	23S75372W15	ELY., 1μF / 50V	△ E281	23S75372W17	ELY., 3.3μF / 50V
○ E222	23T75462W30	ELY., 4.7μF / 25V	○ E282	23T75462W24	ELY., 3.3μF / 50V
△ E222	23S75372W09	ELY., 4.7μF / 35V	△ E282	23S75372W17	ELY., 3.3μF / 50V
○ E223	23T75462W30	ELY., 4.7μF / 25V	○ E291	23T75462W24	ELY., 3.3μF / 50V
△ E223	23S75372W09	ELY., 4.7μF / 35V	△ E291	23S75372W17	ELY., 3.3μF / 50V
○ E224	23T75462W30	ELY., 4.7μF / 25V	○ E292	23T75462W24	ELY., 3.3μF / 50V

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
△ E292	23S75372W17	ELY., 3.3μF / 50V	○ E811	23T75462W06	ELY., 100μF / 10V
△ E301	23T95115W01	ELY., 0.33μF / 50V	△ E811	23S75372W02	ELY., 100μF / 10V
△ E302	23T95115W01	ELY., 0.33μF / 50V	○ E812	23T75462W21	ELY., 0.68μF / 50V
△ E303	23T95115W01	ELY., 0.33μF / 50V	△ E812	23S75372W14	ELY., 0.68μF / 50V
△ E304	23T95115W01	ELY., 0.33μF / 50V	E821	23T74437F41	TAN., 10μF / 25V
△ E305	23S75372W07	ELY., 47μF / 16V	○ E822	23T75462W08	ELY., 10μF / 16V
△ E306	23T95115W02	ELY., 1μF / 50V	△ E822	23S75372W04	ELY., 10μF / 16V
E307	23T35505W06	ELY., 4700μF / 16V	E823	23T74437F41	TAN., 10μF / 25V
△ E308	23S95415W17	ELY., 1μF / 50V	○ E830	23T75462W12	ELY., 100μF / 16V
△ E311	23S75372W12	ELY., 0.33μF / 50V	△ E830	23S75372W08	ELY., 100μF / 16V
△ E312	23S75372W04	ELY., 10μF / 16V	○ E831	23T75462W22	ELY., 1μF / 50V
△ E313	23S75372W04	ELY., 10μF / 16V	△ E831	23S75372W15	ELY., 1μF / 50V
△ E315	23S75372W12	ELY., 0.33μF / 50V	E832	23T75462W12	ELY., 100μF / 16V
△ E316	23S75372W04	ELY., 10μF / 16V	E833	23T75462W06	ELY., 100μF / 10V
△ E317	23S75372W04	ELY., 10μF / 16V	○ E841	23T75462W08	ELY., 10μF / 16V
○ E321	23T75462W30	ELY., 4.7μF / 25V	△ E841	23S75372W04	ELY., 10μF / 16V
○ E321	23S75372W09	ELY., 4.7μF / 35V	○ E851	23T75462W08	ELY., 10μF / 16V
○ E322	23T75462W30	ELY., 4.7μF / 25V	△ E851	23S75372W04	ELY., 10μF / 16V
△ E322	23S75372W09	ELY., 4.7μF / 35V	○ E871	23T75462W08	ELY., 10μF / 16V
○ E323	23T75462W30	ELY., 4.7μF / 25V	△ E871	23S75372W04	ELY., 10μF / 16V
△ E323	23S75372W09	ELY., 4.7μF / 35V	△ E892	23S75372W04	ELY., 10μF / 16V
○ E324	23T75462W30	ELY., 4.7μF / 25V	(All resistors are chip 1/10W±5% unless otherwise noted.)		
△ E324	23S75372W09	ELY., 4.7μF / 35V	Resistors		
○ E325	23T75462W21	ELY., 0.68μF / 50V	R001	06S95434W25	10 ohm 1/4W
△ E325	23S75372W14	ELY., 0.68μF / 50V	R005	06S95432W95	27K ohm
○ E501	23T75462W07	ELY., 220μF / 10V	R006	06S95433W18	220K ohm
△ E501	23S75372W03	ELY., 220μF / 10V	R008	06S95433W10	100K ohm
○ E502	23T75462W22	ELY., 1μF / 50V	R013	06S95432W81	6.8K ohm
△ E502	23S75372W15	ELY., 1μF / 50V	R014	06S95433W12	120K ohm
○ E503	23T75462W08	ELY., 10μF / 16V	R015	06S95432W76	4.3K ohm
△ E503	23S75372W04	ELY., 10μF / 16V	R016	06S95432W93	22K ohm
○ E504	23T75462W07	ELY., 220μF / 10V	R017	06S95432W93	22K ohm
△ E504	23S75372W03	ELY., 220μF / 10V	R018	06S95432W79	5.6K ohm
○ E505	23T75462W09	ELY., 22μF / 16V	R019	06S95432W61	1K ohm
△ E505	23S75372W05	ELY., 22μF / 16V	R020	06S95432W61	1K ohm
○ E511	23T75462W17	ELY., 0.1μF / 50V	R021	06S95432W61	1K ohm
△ E511	23S75372W10	ELY., 0.1μF / 50V	R022	06S95432W85	10K ohm
○ E611	23T75462W08	ELY., 10μF / 16V	R023	06S95433W02	47K ohm
△ E611	23S75372W04	ELY., 10μF / 16V	R026	06S95432W91	18K ohm
○ E801	23T00134L29	ELY., 33μF / 16V	R027	06S95432W93	22K ohm
△ E801	23S75372W06	ELY., 33μF / 16V	R031	06S95432W85	10K ohm
○ E802	23S75462W11	ELY., 47μF / 16V	R032	06S95432W93	22K ohm
△ E802	23S75372W07	ELY., 47μF / 16V	R033	06S95432W94	24K ohm
○ E806	23T75462W06	ELY., 100μF / 10V	R034	06S95432W93	22K ohm
△ E806	23S75372W02	ELY., 100μF / 10V	R042	06S95432W55	560 ohm
○ E807	23T00134L29	ELY., 33μF / 16V	R043	06S95433W02	47K ohm
△ E807	23S75372W06	ELY., 33μF / 16V	R044	06S95432W61	1K ohm
○ E810	23T75462W21	ELY., 0.68μF / 50V			
△ E810	23S75372W14	ELY., 0.68μF / 50V			

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
R045	06S95433W18	220K ohm	R259	06S95434W57	220 ohm 1/4W
R051	06S95432W61	1K ohm	R260	06S95434W57	220 ohm 1/4W
R053	06S95433W26	470K ohm	R261	06S95433W10	100K ohm
R054	06S95432W47	270 ohm	R262	06S95433W10	100K ohm
R055	06S95432W47	270 ohm	R263	06S95434W92	6.2K ohm 1/4W
R056	06S95432W61	1K ohm	R264	06S95434W92	6.2K ohm 1/4W
R057	06S95432W13	10 ohm	R267	06S95434W97	10K ohm 1/4W
R058	06S95432W69	2.2K ohm	R268	06S95434W97	10K ohm 1/4W
R059	06S95432W61	1K ohm	R269	06S95434W57	220 ohm 1/4W
R072	06S64996F30	2.2M ohm	R270	06S95434W57	220 ohm 1/4W
R101	06S95432W93	22K ohm	R271	06S95432W93	22K ohm
R102	06S95432W93	22K ohm	R272	06S95432W93	22K ohm
R103	06S95432W93	22K ohm	R273	06S95434W49	100 ohm 1/4W
R104	06S95432W93	22K ohm	R274	06S95434W49	100 ohm 1/4W
R111	06S95434W67	560 ohm 1/4W	R275	06S95432W78	5.1K ohm
R112	06S95434W49	100 ohm 1/4W	R276	06S95432W78	5.1K ohm
R113	06S95434W67	560 ohm 1/4W	R279	06S95432W99	39K ohm
R114	06T15443W85	22K ohm	R281	06S95432W78	5.1K ohm
R115	06T15443W71	5.6K ohm	R282	06S95432W78	5.1K ohm
R201	06S95432W61	1K ohm	R283	06S95432W93	22K ohm
R202	06S95432W61	1K ohm	R284	06S95432W93	22K ohm
R204	06S95433W04	56K ohm	R285	06S95434W49	100 ohm 1/4W
R205	06S95433W04	56K ohm	R286	06S95434W49	100 ohm 1/4W
R208	06S95433W19	240K ohm	R291	06S95432W78	5.1K ohm
R209	06S95434W70	750 ohm 1/4W	R292	06S95432W78	5.1K ohm
R210	06S95434W70	750 ohm 1/4W	R293	06S95432W93	22K ohm
R221	06S95434W75	1.2K ohm 1/4W	R294	06S95432W93	22K ohm
R222	06S95434W75	1.2K ohm 1/4W	R295	06S95434W49	100 ohm 1/4W
R223	06S95434W87	3.9K ohm 1/4W	R296	06S95434W49	100 ohm 1/4W
R224	06S95434W87	3.9K ohm 1/4W	△ R301	06S95432W85	10K ohm
R225	06S95432W83	8.2K ohm	△ R302	06S95434W57	220 ohm 1/4W
R226	06S95432W99	39K ohm	△ R303	06S95434W57	220 ohm 1/4W
R227	06S95434W73	1K ohm 1/4W	△ R304	06S95434W57	220 ohm 1/4W
R236	06S95432W61	1K ohm	△ R305	06S95434W57	220 ohm 1/4W
R238	06S95432W61	1K ohm	△ R306	06S95432W93	22K ohm
R241	06S95433W10	100K ohm	△ R307	06S95432W93	22K ohm
R242	06S95433W10	100K ohm	△ R308	06S95432W93	22K ohm
R243	06S95432W82	7.5K ohm	△ R309	06S95432W93	22K ohm
R244	06S95432W82	7.5K ohm	△ R311	06S95434W92	6.2K ohm 1/4W
R247	06S95432W92	20K ohm	△ R312	06S95434W92	6.2K ohm 1/4W
R248	06S95432W92	20K ohm	△ R313	06S95434W97	10K ohm 1/4W
R249	06S95434W57	220 ohm 1/4W	△ R314	06S95434W97	10K ohm 1/4W
R250	06S95434W57	220 ohm 1/4W	△ R315	06S95434W92	6.2K ohm 1/4W
R251	06S95433W10	100K ohm	△ R316	06S95434W92	6.2K ohm 1/4W
R252	06S95433W10	100K ohm	△ R317	06S95434W97	10K ohm 1/4W
R253	06S95434W92	6.2K ohm 1/4W	△ R318	06S95434W97	10K ohm 1/4W
R254	06S95434W92	6.2K ohm 1/4W	R321	06T15443W86	24K ohm
R257	06S95434W97	10K ohm 1/4W	R322	06T15443W86	24K ohm
R258	06S95434W97	10K ohm 1/4W	R323	06T15443W86	24K ohm

NOTE : △ : For CDA-7842R Model Only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
R324	06T15443W86	24K ohm	R531	06S95432W61	1K ohm
R325	06T15443W86	24K ohm	R532	06S95432W61	1K ohm
R326	06T15443W86	24K ohm	R533	06S95432W61	1K ohm
R327	06T15443W86	24K ohm	R534	06S95432W61	1K ohm
R328	06T15443W86	24K ohm	R535	06S95432W61	1K ohm
R331	06S95434W83	2.7K ohm 1/4W	R536	06S95432W61	1K ohm
R332	06S95434W83	2.7K ohm 1/4W	R539	06S95434W57	220 ohm 1/4W
R333	06S95434W97	10K ohm 1/4W	R540	06S95433W02	47K ohm
R334	06S95434W97	10K ohm 1/4W	R541	06S95432W85	10K ohm
R400	06T25009Y01	M.F., 7.5 ohm 2W	R543	06S95432W93	22K ohm
R401	06S95432W85	10K ohm	R544	06S95432W93	22K ohm
R402	06S95432W61	1K ohm	R545	06S95432W85	10K ohm
R403	06S95432W61	1K ohm	R546	06S95432W69	2.2K ohm
R404	06S95432W61	1K ohm	R547	06S95432W73	3.3K ohm
R405	06S95432W61	1K ohm	R548	06S95432W37	100 ohm
R406	06S95432W61	1K ohm	R551	06S95432W85	10K ohm
R407	06S95432W61	1K ohm	R552	06S95432W85	10K ohm
R408	06S95432W61	1K ohm	R553	06S95432W93	22K ohm
R409	06S95432W61	1K ohm	R554	06S95432W93	22K ohm
R410	06S95432W87	12K ohm	△ R555	06S95432W93	22K ohm
R501	06S95434W88	4.3K ohm 1/4W	○ R556	06S95432W93	22K ohm
R502	06S95432W69	2.2K ohm	R557	06S95433W26	470K ohm
R503	06S95434W25	10 ohm 1/4W	R558	06S95432W85	10K ohm
R504	06S95432W85	10K ohm	R559	06S95432W93	22K ohm
R505	06S95432W93	22K ohm	R560	06S95432W85	10K ohm
R506	06S95432W93	22K ohm	R561	06S95432W85	10K ohm
○ R507	06S95432W93	22K ohm	R562	06S95432W85	10K ohm
△ R508	06S95432W93	22K ohm	R563	06S95432W93	22K ohm
R509	06S95432W61	1K ohm	R564	06S95433W02	47K ohm
R510	06S95432W61	1K ohm	R565	06S95432W93	22K ohm
R511	06S95434W89	4.7K ohm 1/4W	R566	06S95432W85	10K ohm
R512	06S95434W89	4.7K ohm 1/4W	R567	06S95432W69	2.2K ohm
R513	06S95432W93	22K ohm	R568	06S95432W61	1K ohm
R514	06S95432W93	22K ohm	R569	06S95432W61	1K ohm
R515	06S95433W10	100K ohm	R570	06S95432W61	1K ohm
R516	06S95432W61	1K ohm	R571	06S95432W61	1K ohm
R517	06S95432W61	1K ohm	R572	06S95432W61	1K ohm
R518	06S95432W61	1K ohm	R575	06S95432W61	1K ohm
R519	06S95432W61	1K ohm	R580	06S95432W61	1K ohm
R520	06S95432W61	1K ohm	R581	06S95432W61	1K ohm
R521	06S95432W61	1K ohm	R582	06S95432W61	1K ohm
R522	06S95433W08	82K ohm	R601	06S95434W73	1K ohm 1/4W
R523	06S95433W08	82K ohm	R602	06S95432W85	10K ohm
R524	06S95433W26	470K ohm	R611	06S95432W93	22K ohm
R525	06S95433W26	470K ohm	R612	06S95432W77	4.7K ohm
R526	06S95433W26	470K ohm	R613	06S95432W71	2.7K ohm
R528	06S95432W93	22K ohm	R801	06S95434W79	1.8K ohm 1/4W
R529	06S95432W77	4.7K ohm	R802	06S95434W79	1.8K ohm 1/4W
R530	06S95432W61	1K ohm	R803	06S95434W79	1.8K ohm 1/4W

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Symbol No.	Part No.	Description	Symbol No.	Part No.	Description
△ R804	06S95434W79	1.8K ohm 1/4W	△ R893	06S95434W57	220 ohm 1/4W
R805	06S95434W97	10K ohm 1/4W	△ R894	06S95432W89	15K ohm
△ R806	06S95434W63	390 ohm 1/4W	R895	06S95434W70	750 ohm 1/4W
R810	06S95434W70	750 ohm 1/4W	R896	06S95434W70	750 ohm 1/4W
R811	06S95434W70	750 ohm 1/4W	R898	06S95432W85	10K ohm
R821	06S95432W73	3.3K ohm	VR201	18T55283W22	Variable, CP. 330K ohm
R822	06S95434W73	1K ohm 1/4W	Front P.W.Board		
R823	06S95432W85	10K ohm	IC's		
R824	06S95434W79	1.8K ohm 1/4W	IC401	51T15488Y01	LC75884W
R825	06T15443W86	24K ohm	IC402	51T95040W01	SBX8035F
R827	06T15443W68	4.3K ohm	Transistors		
R828	06S95434W57	220 ohm 1/4W	Q401	48T94606F03	CP., DTC124EU
R829	06S95434W93	6.8K ohm 1/4W	Q402	48T25196W01	CP., 2SC2412KLU
R831	06S95434W63	390 ohm 1/4W	Q403	48T94606F03	CP., DTC124EU
R832	06S95434W19	5.6 ohm 1/4W	Q404	48T25196W01	CP., 2SC2412KLU
R842	06S95433W02	47K ohm	Q405	48T94606F03	CP., DTC124EU
R843	06S95434W97	10K ohm 1/4W	Q406	48T94606F03	CP., DTC124EU
R844	06S95432W85	10K ohm	Q407	48T62967F03	CP., DTC124K
R845	06S95434W59	270 ohm 1/4W	Q408	48T63461F01	CP., 2SC2411K
R846	06S95434W59	270 ohm 1/4W	Q409	48T63461F01	CP., 2SC2411K
R851	06S95432W85	10K ohm	Diodes		
R852	06S95432W77	4.7K ohm	D401	48T64134F01	CP., DA204K
R853	06S95432W63	1.2K ohm	D402	48T64134F01	CP., DA204K
R854	06S95434W25	10 ohm 1/4W	D403	48T64134F01	CP., DA204K
R855	06S95432W85	10K ohm	D404	48T64134F01	CP., DA204K
R856	06S95434W39	39 ohm 1/4W	D405	48T64134F01	CP., DA204K
R857	06S95434W39	39 ohm 1/4W	D406	48T64134F01	CP., DA204K
R858	06S95432W69	2.2K ohm	D416	48T81063F01	CP., MA159
R859	06S95432W65	1.5K ohm	D417	48T81063F01	CP., MA159
R860	06S95432W81	6.8K ohm	ZD401	48T62934F26	Zener, CP. RD6.2MB3
R861	06S95432W81	6.8K ohm	Inverter		
R862	06S95434W39	39 ohm 1/4W	INV1	01T95281W06	Assy., DC-AC Inverter Unit
R863	06S95434W39	39 ohm 1/4W			
R864	06S95432W65	1.5K ohm			
R865	06S95432W69	2.2K ohm			
R866	06S95432W85	10K ohm			
R867	06S95432W85	10K ohm			
R871	06S95434W23	8.2 ohm 1/4W			
R872	06S95434W23	8.2 ohm 1/4W			
R873	06S95434W23	8.2 ohm 1/4W			
R874	06S95434W97	10K ohm 1/4W			
R878	06S95434W79	1.8K ohm 1/4W			
R879	06S95434W79	1.8K ohm 1/4W			
R880	06S95432W85	10K ohm			
R881	06S95434W23	8.2 ohm 1/4W			
R882	06S95434W97	10K ohm 1/4W			
R883	06S95434W81	2.2K ohm 1/4W			
R884	06S95432W85	10K ohm			
△ R892	06S95432W85	10K ohm			

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Symbol No.	Part No.	Description
Lamps		
○ PL401	65T75233W03	CP., 6V-80mA
△ PL401	65T75233W01	CP., 6V-80mA
○ PL402	65T75233W03	CP., 6V-80mA
△ PL402	65T75233W01	CP., 6V-80mA
○ PL403	65T85350W02	6V-80mA
△ PL403	65T85350W01	6V-80mA
○ PL404	65T85350W02	6V-80mA
△ PL404	65T85350W01	6V-80mA
○ PL405	65T75233W03	CP., 6V-80mA
△ PL405	65T75233W01	CP., 6V-80mA
○ PL406	65T75233W03	CP., 6V-80mA
△ PL406	65T75233W01	CP., 6V-80mA
	PL407	65T75522W02
	PL408	65T75522W02
○ PL409	65T85350W02	6V-80mA
△ PL409	65T85350W01	6V-80mA
LED's		
LD401	48T65477W02	CP., SML-010LTT87 (RED)
LD402	48T65477W03	CP., SML-010PTT87 (GRN)
LD405	48T85553W01	CP., SML-211DT (ORG)
LD406	48T85553W01	CP., SML-211DT (ORG)
Switches		
SW401	40T55656W06	Tact, CP. SKQMAJ001 (PWR/INTLZ)
SW402	40T55656W06	Tact, CP. SKQMAJ001 (FWD/UP)
SW403	40T55656W06	Tact, CP. SKQMAJ001 (TUNE/A.ME)
SW404	40T55656W06	Tact, CP. SKQMAJ001 (DN/BWD)
SW406	40T55656W06	Tact, CP. SKQMAJ001 (SOURCE)
SW407	40T55656W06	Tact, CP. SKQMAJ001 (BAND/T.S.M.)
SW408	40T55656W06	Tact, CP. SKQMAJ001 (PLAY/PAUSE/T.R.V.S.)
○ SW409	40T55656W06	Tact, CP. SKQMAJ001 (MUTE/BLACK OUT)
△ SW409	40T55656W06	Tact, CP. SKQMAJ001 (MUTE)
SW410	40T55656W06	Tact, CP. SKQMAJ001 (AF)
SW411	40T55656W06	Tact, CP. SKQMAJ001 (T.INFO)
SW412	40T55656W06	Tact, CP. SKQMAJ001 (DISP/TITLE)
SW413	40T55656W06	Tact, CP. SKQMAJ001 (F/DEMO)
SW414	40T55656W06	Tact, CP. SKQMAJ001 (R.TEXT/1/7)
SW415	40T55656W06	Tact, CP. SKQMAJ001 (PTY/2/8)
SW416	40T55656W06	Tact, CP. SKQMAJ001 (P. PTY/3/9)
SW417	40T55656W06	Tact, CP. SKQMAJ001 (M.I.X./4/10)
SW418	40T55656W06	Tact, CP. SKQMAJ001 (RPT/5/11)

Symbol No.	Part No.	Description
SW419	40T55656W06	Tact, CP. SKQMAJ001 (SCAN/6/12)
SW420	40T55656W06	Tact, CP. SKQMAJ001 (EJECT)
Capacitors		
C401	08S65128F76	CP., 0.1μF
C402	08S65128F65	CP., 4700pF
C403	08S65128F69	CP., 0.01μF
C404	08S82122F57	CP., 680pF
C405	08T15399W03	CP., 0.047μF
C406	08T15399W03	CP., 0.047μF
C407	08T15399W03	CP., 0.047μF
E401	23S55311W42	CP. TAN., 4.7μF / 20V
(All resistors are chip 1/10W±5% unless otherwise noted.)		
Resistors		
R411	06S95434W70	750 ohm 1/4W
R412	06S95434W70	750 ohm 1/4W
R414	06S45674W57	1K ohm 1/16W
R415	06S45674W57	1K ohm 1/16W
R416	06S45674W57	1K ohm 1/16W
R417	06S45674W57	1K ohm 1/16W
R418	06S45674W57	1K ohm 1/16W
R419	06S95432W77	4.7K ohm
R420	06S95434W37	33 ohm 1/4W
R421	06S95434W37	33 ohm 1/4W
R424	06S95433W01	43K ohm
R429	06S45674W57	1K ohm 1/16W
○ R430	06S95434W28	13 ohm 1/4W
△ R430	06S95434W30	16 ohm 1/4W
○ R432	06S95434W34	24 ohm 1/4W
△ R432	06S95434W35	27 ohm 1/4W
○ R434	06S95434W35	27 ohm 1/4W
△ R434	06S95434W36	30 ohm 1/4W
○ R435	06S95434W35	27 ohm 1/4W
△ R435	06S95434W36	30 ohm 1/4W
○ R438	06S95434W35	27 ohm 1/4W
△ R438	06S95434W36	30 ohm 1/4W
R440	06S95432W85	10K ohm
R441	06S95432W85	10K ohm
R442	06S95432W85	10K ohm
R443	06S95432W61	1K ohm
R444	06S95432W85	10K ohm
R445	06S95432W61	1K ohm
R446	06S95433W18	220K ohm
R447	06S95432W85	10K ohm
R448	06S95433W18	220K ohm

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Symbol No.	Part No.	Description
○	R449 06S95432W85	10K ohm
	R450 06S95434W37	33 ohm 1/4W
	R451 06S95434W37	33 ohm 1/4W
○	R452 06S95434W28	13 ohm 1/4W
△	R452 06S95434W30	16 ohm 1/4W
	R454 06S95434W83	2.7K ohm 1/4W
	R455 06S95432W69	2.2K ohm
	R456 06S95432W61	1K ohm
	R458 06S95432W61	1K ohm
DC / DC Converter P.W.Board		
IC's		
	IC901 51T80251F01	NJM78L09A
	IC902 51T80252F01	NJM79L09A
Transistors		
	Q901 48T69176F02	2SC3421
	Q902 48T55057W01	2SD1857
	Q903 48T55057W01	2SD1857
Diodes		
	D901 48T55247W01	11EQS04
	D902 48T55247W01	11EQS04
	D903 48T55247W01	11EQS04
	D904 48T55247W01	11EQS04
	ZD901 48T83128F26	Zener, HZS9C2L
Coil		
	L901 24T95399W21	Inductor, 470μH
Transformer		
	T901 25T95401W01	LC-10
Capacitors		
	C902 08T55390W22	TF, 0.027μF
○	E901 23T00134L29	ELY., 33μF / 16V

Symbol No.	Part No.	Description
△	E901 23T45365W06	ELY., 33μF / 35V
○	E902 23T00134L15	ELY., 33μF / 10V
△	E902 23T45365W06	ELY., 33μF / 35V
	E903 23T45365W02	ELY., 100μF / 10V
○	E904 23T00134L32	ELY., 100μF / 16V
△	E904 23T45365W05	ELY., 100μF / 25V
○	E905 23T00134L32	ELY., 100μF / 16V
△	E905 23T45365W05	ELY., 100μF / 25V
	E906 23T45365W04	ELY., 47μF / 25V
	E907 23T45365W04	ELY., 47μF / 25V
D-OUT P.W.Board (○)		
Capacitor		
	C120 08T15399W04	CP, 0.027μF
Resistor		
	R120 06S95434W95	CP., 8.2K ohm 1/4W
DP-Main P.W.Board		
IC's		
	IC1101 51T75549W02	TC9296AF
	IC1102 51T75548W01	TA2066F
	IC1103 51T85408W01	BA6791FP
	IC1104 51T16025W01	NJM2100M
	IC1201 51T16025W01	NJM2100M
	IC1202 51T11054W02	NJM78L05UA
	IC1501 51T55288W02	LB1638M
Transistors		
	Q1101 48T80611F01	CP., 2SB1132
	Q1102 48T80611F01	CP., 2SB1132
Diode		
	D1501 48T81063F01	CP., MA159

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Symbol No.	Part No.	Description
Crystal		
XL1101	91T95099W92	CP., 16.934MHz
Capacitors		
C1101	08S35374W01	CP., 0.1µF
C1102	08S45677W36	CP., 100pF
C1103	08S65128F71	CP., 0.015µF
C1104	08S65128F69	CP., 0.01µF
C1105	08S65128F69	CP., 0.01µF
C1106	08S65128F69	CP., 0.01µF
C1107	08T15399W02	CP., 0.033µF
C1108	08S35374W01	CP., 0.1µF
C1109	08S65128F71	CP., 0.015µF
C1111	08T15399W01	CP., 0.022µF
C1112	08T15399W01	CP., 0.022µF
C1113	08S35374W01	CP., 0.1µF
C1114	08S35374W01	CP., 0.1µF
C1115	08S45677W16	CP., 15pF
C1116	08S45677W18	CP., 18pF
C1118	08S65128F69	CP., 0.01µF
C1119	08S65128F79	CP., 0.027µF
C1120	08S65128F71	CP., 0.015µF
C1121	08S35374W01	CP., 0.1µF
C1122	08T65289W03	CP., 1µF
C1124	08S45677W14	CP., 12pF
C1125	08S45677W05	CP., 3pF
C1127	08S65128F65	CP., 4700pF
C1128	08S65128F63	CP., 3300pF
C1131	08T15399W03	CP., 0.047µF
C1132	08S45676W62	CP., 1200pF
C1133	08S35374W01	CP., 0.1µF
C1134	08S65128F79	CP., 0.027µF
C1135	08S65128F62	CP., 2700pF
C1136	08T55487W02	CP., 0.22µF
C1138	08S35374W01	CP., 0.1µF
C1140	08S35374W01	CP., 0.1µF
C1205	08S45677W32	CP., 68pF
C1206	08S45677W32	CP., 68pF
C1207	08S45677W32	CP., 68pF
C1208	08S45677W32	CP., 68pF
C1209	08S45677W32	CP., 68pF
C1210	08S45677W32	CP., 68pF
C1212	08S45677W32	CP., 68pF
C1213	08S45677W32	CP., 68pF
C1215	08S65128F79	CP., 0.027µF
C1216	08S82122F61	CP., 1000pF

Symbol No.	Part No.	Description
C1217	08S82122F61	CP., 1000pF
C1501	08S65128F79	CP., 0.027µF
E1101	23S55311W42	CP. TAN., 4.7µF / 20V
E1102	23S55311W23	CP. TAN., 10µF / 10V
E1103	23S55311W42	CP. TAN., 4.7µF / 20V
E1104	23S55311W23	CP. TAN., 10µF / 10V
E1105	23S55311W42	CP. TAN., 4.7µF / 20V
E1106	23T85373W03	CP. ELY., 47µF / 5.5V
E1108	23S55311W23	CP. TAN., 10µF / 10V
E1109	23T85373W05	CP. ELY., 10µF / 16V
E1110	23T85373W05	CP. ELY., 10µF / 16V
E1202	23T85373W03	CP. ELY., 47µF / 5.5V
E1204	23T85373W05	CP. ELY., 10µF / 16V
E1205	23T85373W03	CP. ELY., 47µF / 5.5V
E1206	23T85373W05	CP. ELY., 10µF / 16V
E1207	23T85373W05	CP. ELY., 10µF / 16V
E1501	23T85373W05	CP. ELY., 10µF / 16V
(All resistors are chip 1/16W±5% unless otherwise noted.)		
Resistors		
R1101	06S45674W57	1K ohm
R1102	06S45674W81	10K ohm
R1103	06S45674W97	47K ohm
R1104	06S45675W06	100K ohm
R1105	06S45675W34	2.2M ohm
R1106	06S45674W93	33K ohm
R1108	06S64995F77	10K ohm 1/10W
R1109	06S45674W81	10K ohm
R1110	06S45674W57	1K ohm
R1111	06S45674W57	1K ohm
R1112	06S45674W65	2.2K ohm
R1113	06S70072F22	51 ohm 1/4W
R1114	06S70072F22	51 ohm 1/4W
R1115	06S45674W85	15K ohm
R1116	06S45674W81	10K ohm
R1117	06S45674W73	4.7K ohm
R1119	06S45674W88	20K ohm
R1121	06S45674W88	20K ohm
R1123	06S45674W91	27K ohm
R1124	06S45674W57	1K ohm
R1125	06S45674W33	100 ohm
R1126	06S45674W33	100 ohm
R1127	06S45674W54	750 ohm
R1128	06S45674W54	750 ohm
R1130	06S45674W97	47K ohm
R1131	06S45674W57	1K ohm
R1133	06S45674W49	470 ohm
R1135	06S45674W65	2.2K ohm

Symbol No.	Part No.	Description
R1136	06S45674W77	6.8K ohm
R1137	06S45674W81	10K ohm
R1138	06S45674W95	39K ohm
R1140	06S45674W87	18K ohm
R1141	06S45674W81	10K ohm
R1143	06S45674W77	6.8K ohm
R1145	06S45674W92	30K ohm
R1147	06S45674W54	750 ohm
R1150	06S64995F77	10K ohm 1/10W
R1151	06S45675W04	82K ohm
R1160	06S45674W54	750 ohm
R1205	06S45674W25	47 ohm
R1206	06S45674W25	47 ohm
R1207	06S45674W95	39K ohm
R1208	06S45674W95	39K ohm
R1209	06S45674W90	24K ohm
R1210	06S45674W90	24K ohm
R1211	06S45674W95	39K ohm
R1212	06S45674W95	39K ohm
R1213	06S45674W90	24K ohm
R1214	06S45674W90	24K ohm
R1215	06S45674W90	24K ohm
R1216	06S45674W90	24K ohm
R1217	06S45674W90	24K ohm
R1218	06S45674W90	24K ohm
R1219	06S45674W73	4.7K ohm
R1220	06S45674W73	4.7K ohm
R1221	06S45674W73	4.7K ohm
R1222	06S45674W73	4.7K ohm
Miscellaneous		
CB401	09T15299Y15	15P Connector
CFL401	65T25014Y02	FL Tube
CH401	09T15298Y15	15P Connector
DIN801	09T55071W11	Ai-NET Connector
ET001	01T15513W23	Assy., Antenna Receptacle
ET201	01T85236W08	Assy., RCA Connector (FRONT OUT / REAR OUT)
ET202	01T15610Y01	Assy., RCA Connector (SUB-W) & Wire
ET501	01T75188W17	Assy., Remote Control Interface Connector
ET801	09T55175W16	Power Supply Connector
ET801	09T55175W16	Speaker Output & Power Supply Connector
HD1201	81B81296W02	Pick - Up Unit, EP21A020

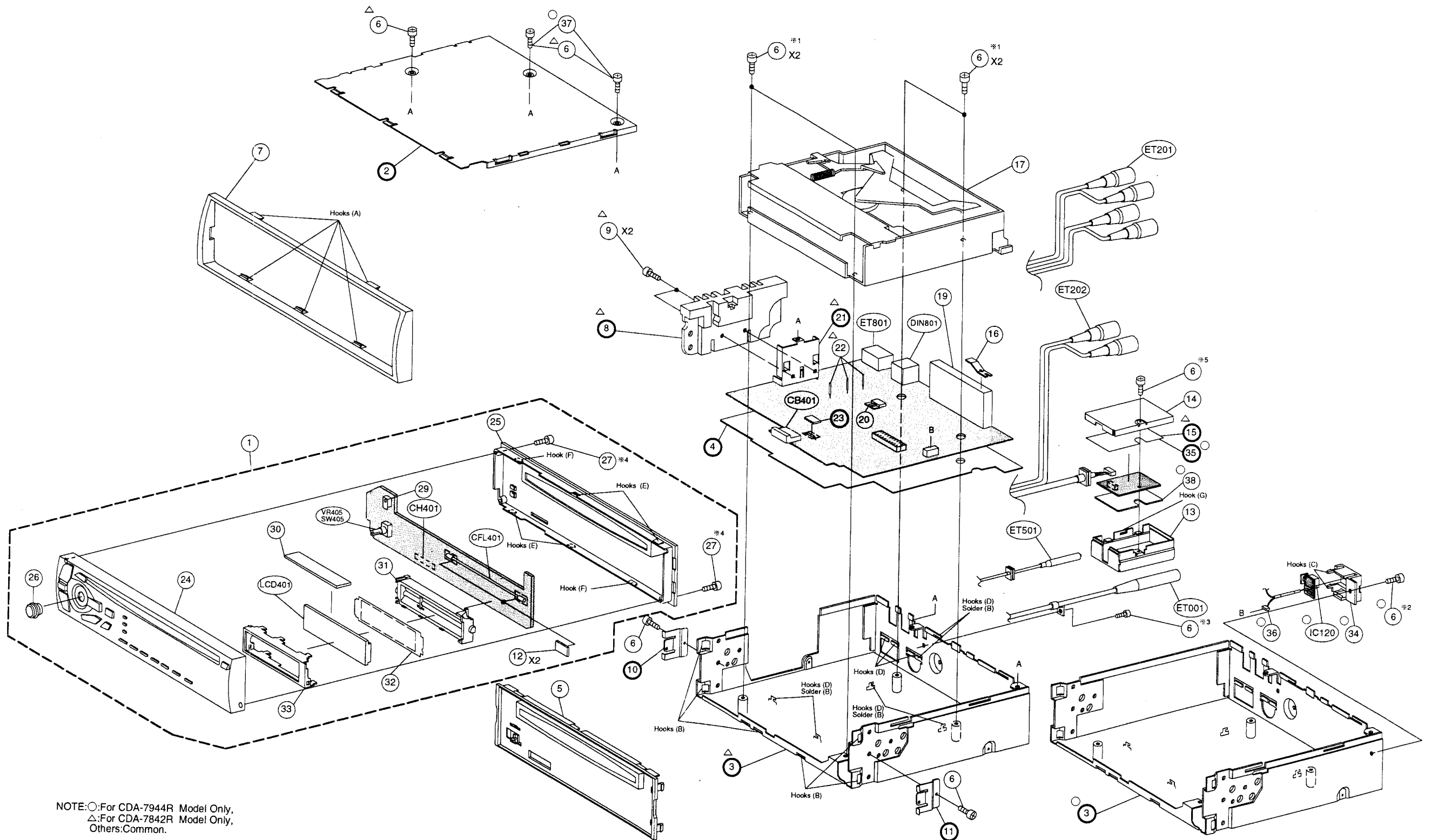
Symbol No.	Part No.	Description
○ IC120	51T75111W01	IC, TOTX193 (Optical D-OUT)
○ LCD401	65T15625Y02	LCD Display
△ LCD401	65T15625Y01	LCD Display
M1301	01V73300W33	Assy., Motor - Load (7V - 370mA)
M1302	01V73300W35	Assy., Motor Spindle (2V-90mA)
M1303	01V73300W38	Assy., Motor Sled (7V - 370mA)
SW1301	40T25956W02	Switch, Detector (DISC CHUCKING POSITION)
SW1302	40T25956W02	Switch, Detector (D SC LOAD)
SW1303	40T25956W01	Switch, Detector (DISC LOAD)
SW1304	40T25956W02	Switch, Detector (DISC END)
SW1305	40T71025F03	Switch, Detector (LIMIT)
VR405	40T45670W05	Rotary Encoder Volume (VOLUME / MODE • BBE)
SW405		

NOTE: ○: For CDA-7944R Model Only, △: For CDA-7842R Model Only, Others: Common.

Exploded View (Cabinet)

NOTE : The screws marked "※1~5" are disassembly parts.

1
2
3
4
5



NOTE: ○: For CDA-7944R Model Only,
△: For CDA-7842R Model Only,
Others: Common.

Disassembly Instructions

1. Removal of Nose Unit

- (1) Refer to the Owner's Manual (Part No. 68P10924Y41).

2. Removal of Face Plate

- (1) Remove five Hooks (A), and remove Face Plate. Hooks (A) (2-B)

3. Removal of Front Escutcheon

- (1) After removal of Top Cover, Face Plate and two Bracket Side, remove six Hooks (B). Hooks (B) (4-D, 4-E)

4. Removal of CD Deck Mechanism (○)

- (1) After removal of Front Escutcheon, remove four screws No. 6. Screws No. 6 (※1) (1-E, 1-F)
- (2) Remove CD Deck Mechanism slowly, disconnect D-OUT Wire No. 36 to Main P.W. Board. D-OUT Wire No. 36 (4-G)

NOTE : There is D-OUT Wire out of sight between CD Deck Mechanism and Main P.W.Board. Do not cut D-OUT Wire.

- (3) Remove two points of Solder (A) as shown in Figure 8, and remove D-OUT Wire.

5. Removal of CD Deck Mechanism (△)

- (1) After removal of Front Escutcheon, remove four screws No. 6. Screws No. 6 (※1) (1-E, 1-F)
- (2) Disconnect a connector from Main P.W.Board.

6. Removal of D-OUT P.W.Board (○)

- (1) After removal of CD Deck Mechanism, remove a screw No. 6, and two Hooks (C). Screw No. 6 (※2) (4-G) Hooks (C) (4-G)
- (2) D-OUT P.W.Board with D-OUT Cover can be removed completely.

7. Removal of Main P.W. Board

- (1) After removal of CD Deck Mechanism, remove a screw No. 6. Screw No. 6 (※3) (4-G)
- (2) Remove six points of Solder (B) and nine Hooks (D). Solder (B) (4-E, 4-F) Hooks (D) (4-E, 4-F)

8. Removal of Front P.W. Board

- (1) After removal of Nose Unit, remove two screws No. 27. Screws No. 27 (※4) (3-D, 4-D)
- (2) Remove Knob Rotary No. 26. Knob Rotary No. 26 (4-A)
- (3) Remove four Hooks (E), and remove Nosepiece. Hooks (E) (3-D, 4-C)
- (4) Remove two Hooks (F), and remove Front P.W.Board. Hooks (F) (3-D, 4-D)

9. Removal of DC/DC Converter P.W. Board

- (1) Remove a screw No. 6, and remove Cover DC-DC No. 14. Screw No. 6 (※5) (3-G) Cover DC-DC No. 14 (3-G)
- (2) Remove a Hook (G), and disconnect a connector from Main P.W.Board. Hook (G) (3-G)

NOTE: For the screws No., Hook and Solder, refer to the Exploded View (Cabinet).
○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

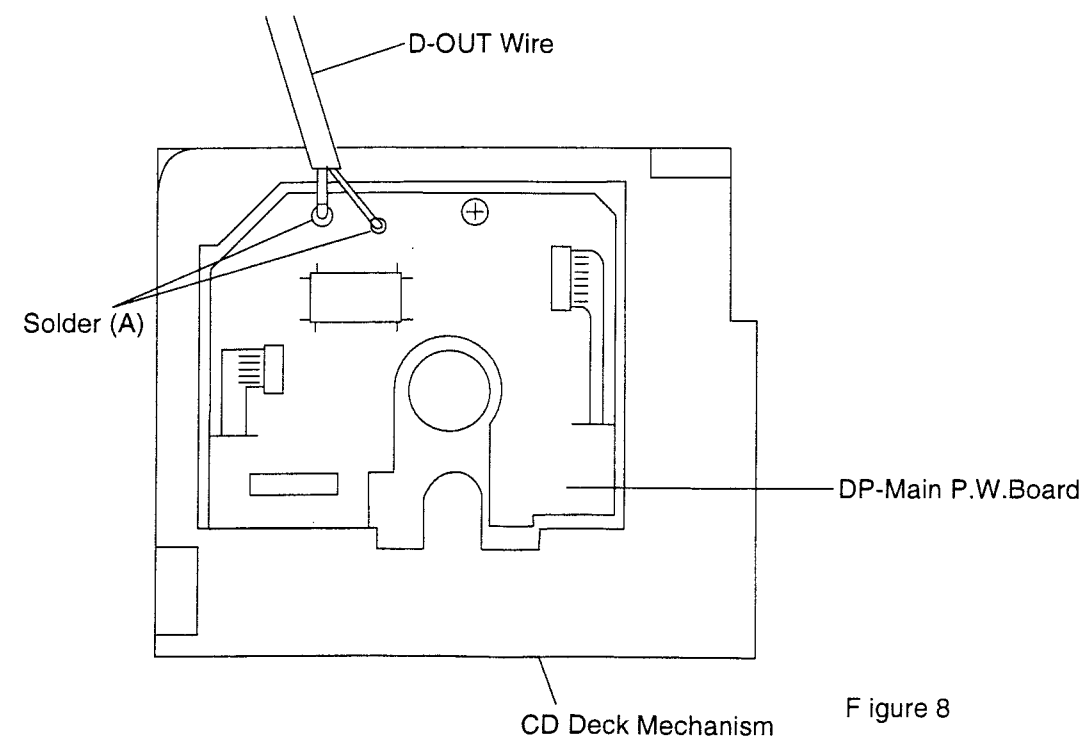


Figure 8

Cabinet Assembly Parts List

NOTE: Parts without part number are not supplied.

Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
○	1	3-B	01V14300Y77	Assy., Nose Unit			
△	1	3-B	01V14300Y80	Assy., Nose Unit			
	5	4-D	13C10783Y01	Assy., Front Escutcheon			
	6		03S44205G29	Screw, Pan (M2.6X6)			
	7	2-B	33C10618Y01	Face, Plate			
△	9	2-D	03S38013W05	Screw, Pan (M2.6X16)			
	12	4-C	14S11351Y16	Insulator, Cover			
	13	3-G	15C11509Y01	Case, DC-DC			
	14	3-G	15B11508Y01	Cover, DC-DC			
	16	3-F	41A11113Y01	Spring, T/G			
	17	2-F	81D10094Y01	CD Deck Mechanism, DP23L05A			
	19	2-E	77C10163Y01	FM/MW/LW Tuner Unit, MB4R603S (FE001)			
	20	3-E	36A70327W01	Knob, Slide			
△	22	3-E	09T84840F02	Lug, Style 32mm			
○	24	4-B	13T15458Y05	Assy., Nosepiece			
△	24	4-B	13T15458Y04	Assy., Nosepiece			
○	25	3-C	13D10486Y02	Nose, Bottom			
△	25	3-C	13D10486Y01	Nose, Bottom			
○	26	4-A	36B10628Y05	Knob, Rotary			
△	26	4-A	36B10628Y01	Knob, Rotary			
	27		03S68555F39	Screw, Pan (M1.7X10)			
	29	3-C	07A90454W01	Bracket, Remote			
	30	4-B	75T85248W09	Rubber, Electric			
	31	4-C	15B10915Y01	Cover, LCD			
	32	4-C	26A10916Y01	Reflector, Sheet			
	33	4-B	15C10914Y01	Case, LCD			
○	34	4-G	15B71937W01	Cover, Connector D-OUT			
○	36	4-G	01T75451W02	Assy., Wire D-OUT			
○	37	1-D	03S38013W51	Screw, Pan (M2.6X6)			
○	38	3-G	14A20122Y02	Insulator, DC-DC			

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

Semi-Conductor Lead Identifications

NOTE : For the parts not mentioned, refer to the Schematic Diagram.

85312W84 : IC501

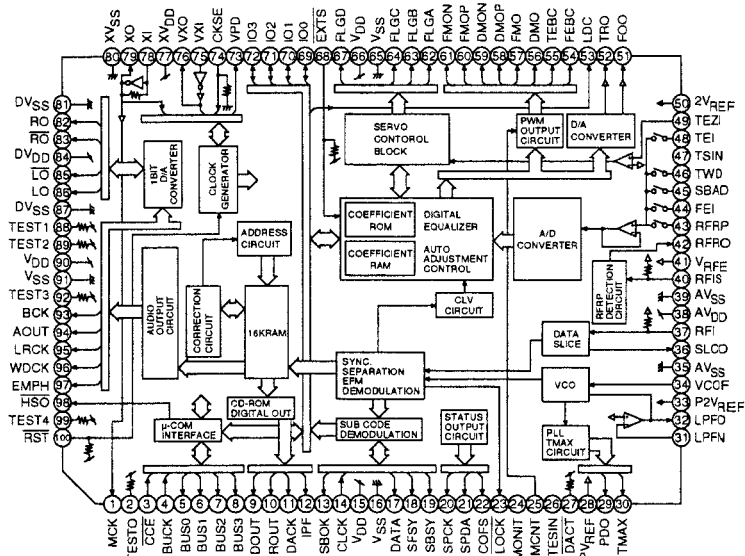
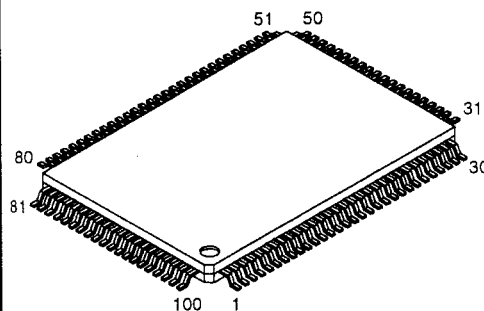
PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	Black-Out SEL	I	22	SW-CLK	O	43	MUTE	O	63	ACC DET	I
2	ENCODER1	I	23	L-CONT	O	44	NC	—	64	BUS-IN	I
3	ENCODER2	I	24	NC	—	45	DTS MUTE	I	65	SW-1	I
4	AVSS	—	25	LOAD FWD	O	46	BUZZER	O	66	BUS-OUT	O
5	BBE Low CONT	O	26	LOAD BWD	O	47	NC	—	67	SW-2	I
6	BBE HI CONT	O	27	NC	—	48	NC	—	68	VDD	—
7	AVREF	—	28	NC	—	49	NC	—	69	X2	—
8	DTS STS	I	29	NC	—	50	NC	—	70	X1	—
9	DTS CMD	O	30	SW-3	I	51	DTS STBY	O	71	GND	—
10	DTS CLK	O	31	SW-4	I	52	NC	—	72	NC	—
11	LCD DO	I	32	V-CONT	O	53	CFL-B ON	O	73	GND	—
12	LCD DI	O	33	GND	—	54	NOSE POWER	O	74	AVDD	—
13	LCD CLK	O	34	LIMIT-SW	I	55	POWER ON	O	75	VDD	—
14	LCD CE	O	35	LSI-RST	O	56	NC	—	76	Dig-Out SEL	I
15	LCD RST	O	36	BUS-0	I/O	57	POWER IC	I/O	77	INTLZ	I
16	E.VOL DATA	I/O	37	BUS-1	I/O	58	NC	—	78	SUB-W SEL	I
17	E.VOL CLK	O	38	BUS-2	I/O	59	IN DIMMER	I	79	T-SENS	I
18	CD CE	O	39	BUS-3	I/O	60	IN INT	I	80	NOSE ON	I
19	CD CLK	O	40	BUCK	O	61	RESET	I			
20	CD DATA	O	41	CCE	O	62	REMOCON	I			
21	SW-DATA	O	42	LOCK	I	62	BAT DET	I			

85089W19 : IC502

PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O	PIN NO.	CODE ADDRESS	I/O
1	VCC	—	26	NC	—	51	NC	—	76	SEEK Req.	O
2	NC	—	27	NC	—	52	NC	—	77	RDS RESET	O
3	X0A	—	28	NC	—	53	TUNER CLK	I	78	SD	I
4	MOD0	—	29	NC	—	54	TUNER SI	I	79	PSWN	I
5	MOD1	—	30	NC	—	55	TUNER SO	O	80	Auto Adj.	I
6	X0	O	31	NC	—	56	RDS SDA	I/O	81	NC	—
7	X1	I	32	NC	—	57	RDS CLK	O	82	LO / DX	O
8	VSS	—	33	NC	—	58	GND	—	83	NC	—
9	RESET	I	34	A-MUTE	O	59	VSS	—	84	AVSS	—
10	NC	—	35	GND	—	60	GND	—	85	S / M	I
11	NC	—	36	GND	—	61	GND	—	86	M / P	I
12	NC	—	37	GND	—	62	GND	—	87	GND	—
13	NC	—	38	GND	—	63	E2P SDA	I/O	88	GND	—
14	NC	—	39	NC	—	64	E2P CLK	O	89	GND	—
15	NC	—	40	NC	—	65	NC	—	90	GND	—
16	NC	—	41	NC	—	66	NC	—	91	GND	—
17	NC	—	42	NC	—	67	SEEK Req.	O	92	GND	—
18	NC	—	43	NC	—	68	GND	—	93	AVCC	—
19	NC	—	44	NC	—	69	AFHOLD	O	94	AVR	—
20	NC	—	45	RxD	I	70	NC	—	95	NC	—
21	NC	—	46	TxD	O	71	IF MUTE	O	96	NC	—
22	NC	—	47	NC	—	72	FM / AM	O	97	TUNER STBY	I
23	AM ST	I	48	NC	—	73	PLL CLK	O	98	NC	—
24	NC	—	49	NC	—	74	PLL DATA	I/O	99	DAVN	I
25	NC	—	50	VCC	—	75	PLL CE	O	100	NC	—

NOTE : ○ : For CDA-7944R Model Only, △ : For CDA-7842R Model Only, Others : Common.

TC9296AF: IC1101 (DP23L05A)



ALPINE SERVICE MANUAL

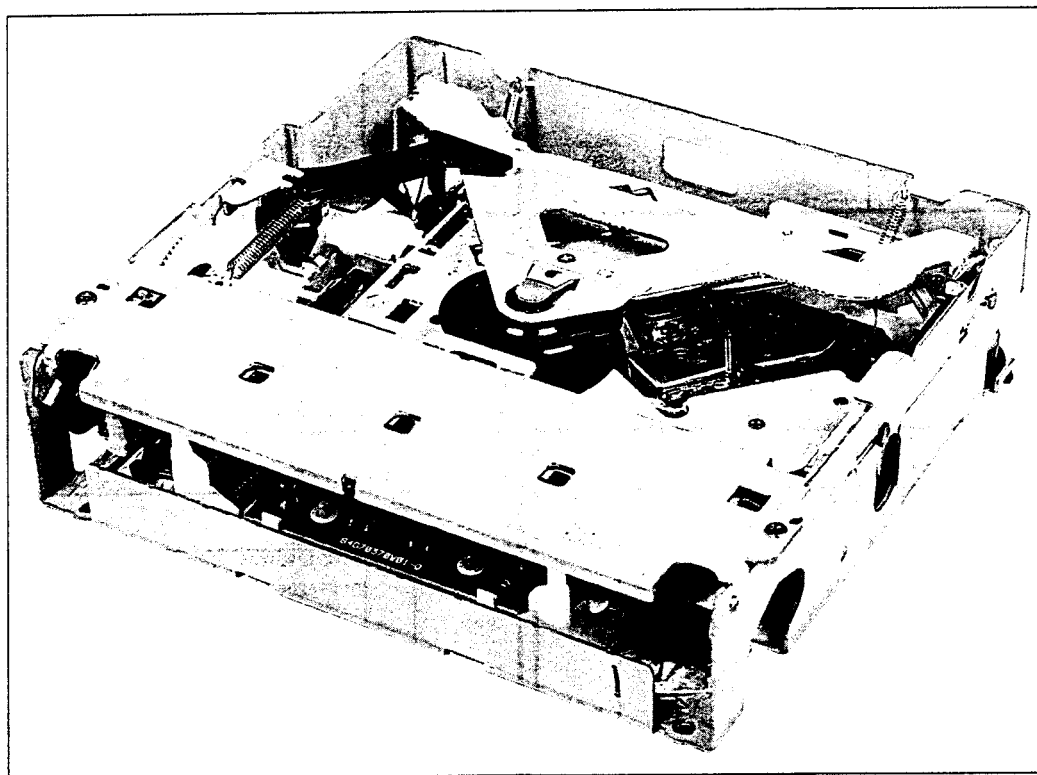
CD Player Mechanism



V19009

ADDENDUM & REVISED

- This manual is described on DP23L010 only. The DP23L010 is developed from DP24L010. For information that is not mentioned in this service manual, refer to the Service Manual • DP-L SERIES (68E23246S01). *-V19009*
- 当マニュアルはDP23L010についてのみ記載しております。又、DP24L010がベースモデルとなっておりますので、相違部分のみ記載しております。詳細についてはDP-L SERIES (68E23246S01)を参照願います。



DP-L SERIES

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CD Mechanism Cabinet Assembly Parts List (Only Difference)	2
Exploded View (CD Mechanism)	3 to 4

Mechanism Function Description Component Disassembly and Assembly Notes	}	Refer to the Service Manual for DP-L Series (Part No. 68E23246S01).
--	---	--

CD Mechanism Assembly Parts List

NOTE: For the parts not mentioned, refer to the Service Manual for DP-L SERIES (Part No.68E23246S01).

Symbol No.	Index	Part No.	Description
61	2-G	03S38013W25	Screw, Pan (M2X4)
Miscellaneous			
HD1201		81B81296W01	Pick-Up Unit
M1302		01V94200W03	Assy., Spindle Motor (3V-90mA)

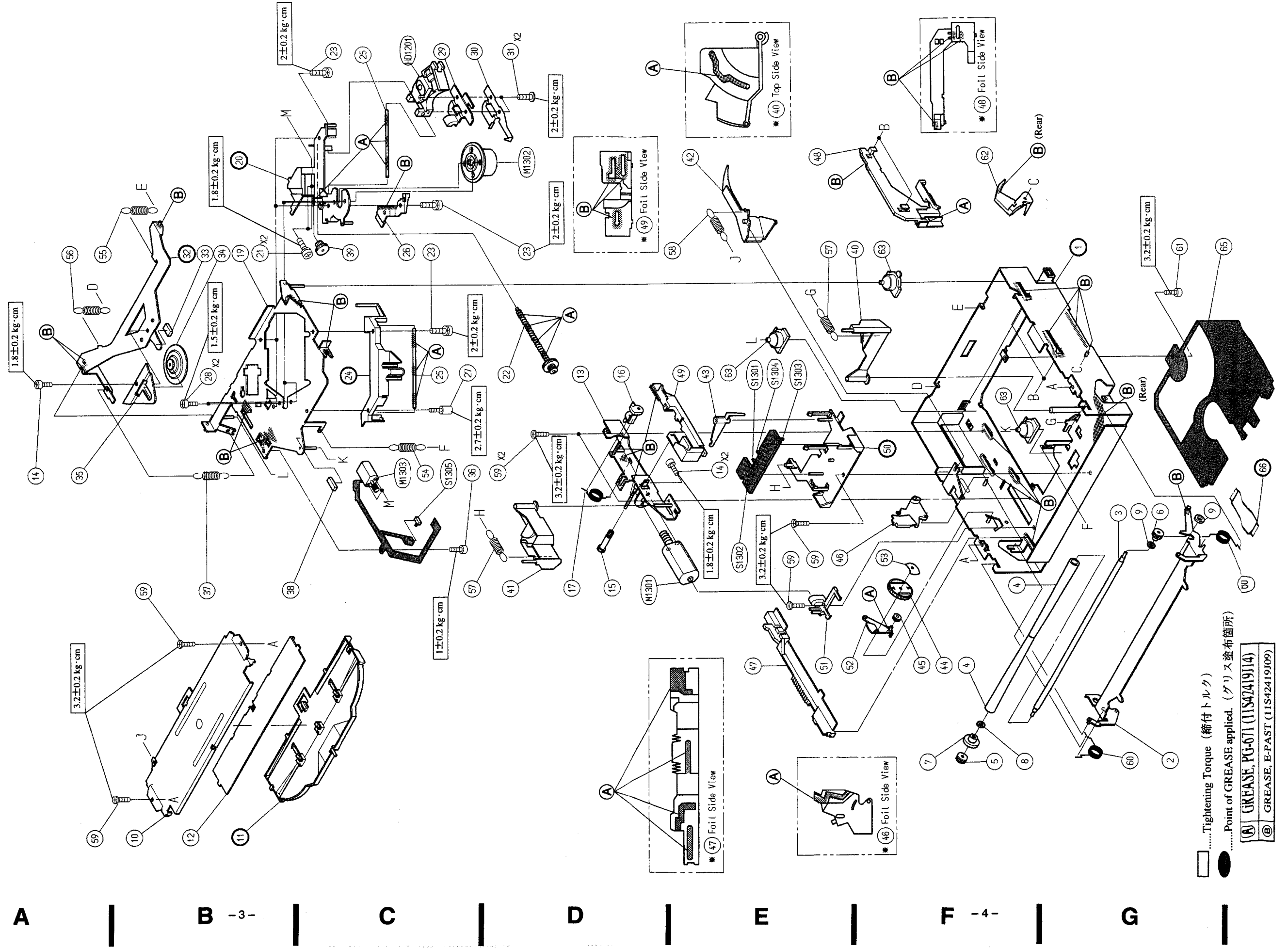
CDメカニズム関係部品表

※ 記載されていない部品については、サービスマニュアル・DP-L SERIES (68E23246S01) を参照願います。

記号	索引	部品番号	部品名	標準卸価格
61	2-G	03S38013W25	Screw, Pan (M2X4)	45
その他の電気部品				
HD1201		81B81296W01	Pick-Up Unit	
M1302		01V94200W03	Assy., Spindle Motor (3V-90mA)	1,530

Exploded View (CD Mechanism)

1
2
3
4
5



A | B - 3 - | C | D | E | F - 4 - | G

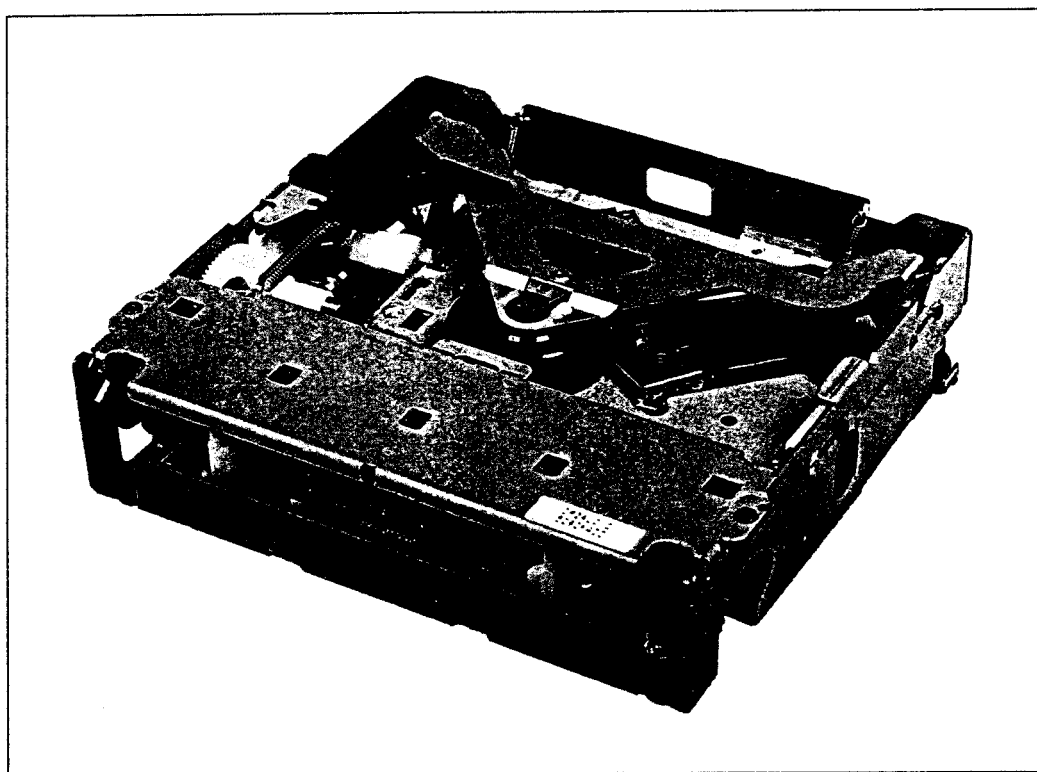
[] Tightening Torque (締付トルク)
 [●] Point of GREASE applied. (グリス塗布箇所)
 (A) GREASE, PG-071 (11S42419114)
 (B) GREASE, E-PAST (11S42419109)

///ALPINE[®] SERVICE MANUAL

CD Player Mechanism



V19008



DP-L SERIES

Contents

Mechanism Function Description	3 to 15
Component Disassembly and Assembly Notes	16 to 20
Exploded View (Cassette Deck Mechanism)	21 to 22
CD Mechanism Assembly Parts List	23

Mechanism Function Description

メカの動作説明

<Outline of DP24L010 mechanism>

<DP24L010メカ概要>

1. Mechanical specifications

The DP-L consists of one motor and 5 switches.

The mechanism allows a loading of 12 cm disc only and ejects 8 cm disc if it is detected.

1. 機構仕様

DP-Lは1 MOTOR/5 SWで構成されている。

また、本MECHは12cmDISCのみLOADINGを行い、8cmDISCを検出した場合には、排出を行う構成である。

2. Electrical specifications

With a digital LSI (servo processor) employed,

(1) Reliability is improved due to full automatic adjustments carried out:

- Disc variations are absorbed.
- Pickup temperature characteristics and deterioration are absorbed.
- Skillful works such as adjustments are eliminated.

2. 電気仕様

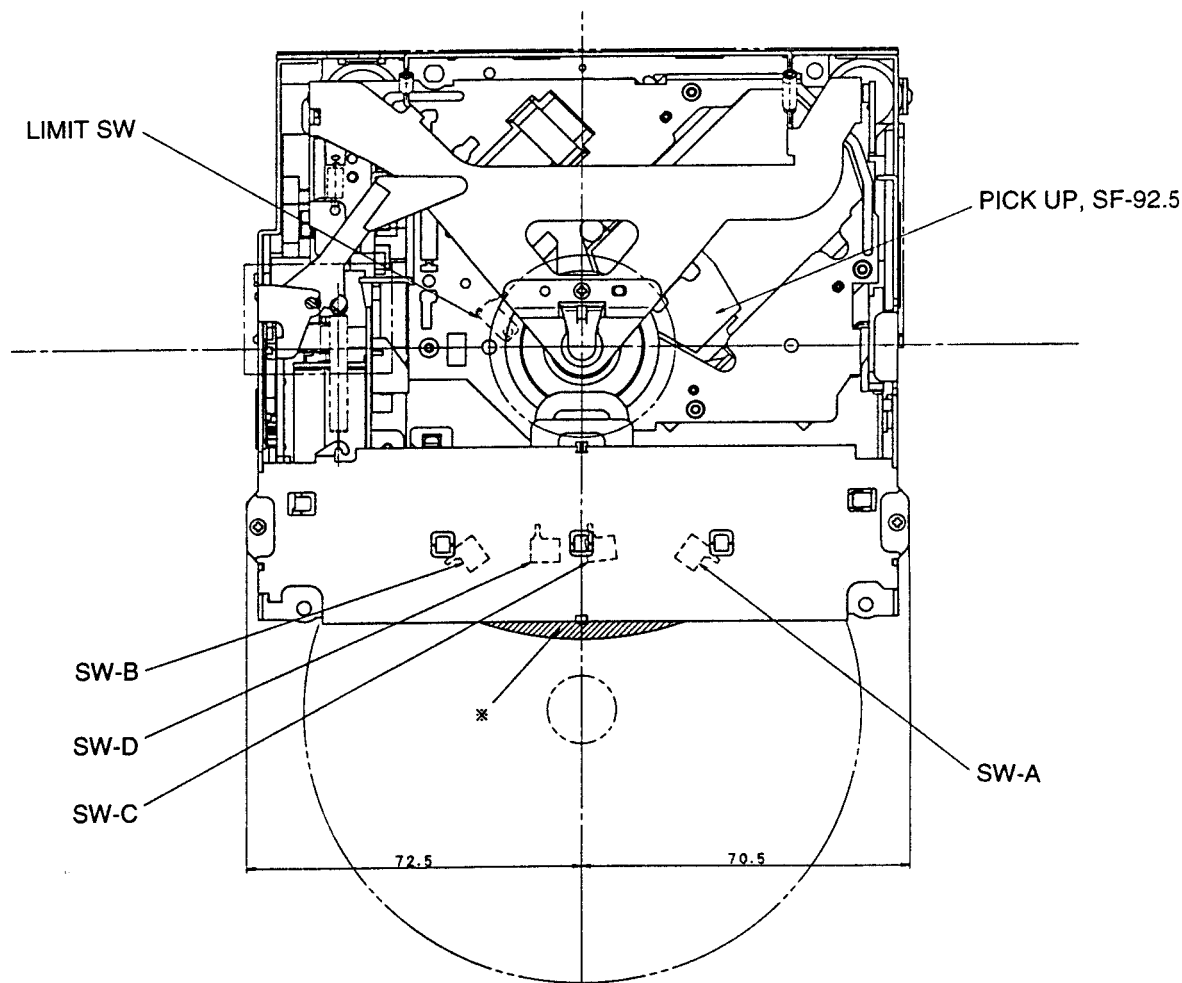
デジタルサーボLSI（サーボプロセッサ）の採用により、

(1) 完全自動調整による信頼性の向上

- ディスクのバラツキを吸収できる
- ピックアップの温特、劣化を吸収できる
- 調整等の熟練を要する作業を必要としない

<DP24L010 Sensor switch location diagram>

<DP24L010センサーSW配置図>



<Function of DP24L010 sensor switches>

	I/O	Name	Function
1	I	SW-A	Detects disc insertion of 8 cm or 12 cm disc. Identifies 8 cm or 12 cm disc. Detects 12 cm disc is pulled out. Detects insertion position of 8 cm disc.
2	I	SW-B	Same as above
3	I	SW-C	Detects eject position of 12 cm disc. Identifies 8 cm or 12 cm disc. Detects reload of 12 cm disc.
4	I	SW-C	Detects completion of chucking operation. Detects disc is in chucking status.
5	I	Limit SW	Detects pickup is moved to inner most position.

<DP24L010各センサーSWの働き>

	I/O	名称	機能
1	I	SW-A	8cm/12cm DISCの挿入を検知する 8cm/12cm DISCの認識を行う 12cmDISCが引き抜かれたことを検知する 8cm DISC挿入位置を検知する
2	I	SW-B	同上
3	I	SW-C	12cm DISCのEJECT位置を検知する 8cm/12cm DISCの認識を行う 12cm DISCのRELOADを検知する
4	I	SW-D	チャッキング動作の終了を検知する DISCがチャッキング状態であることを検知する
5	I	Limit SW	ピックアップが内周へ移動したことを検知する

<Operation description>

<動作説明>

1. Loading

Of the switches SW-A and SW-B, the switch which detects L→H first is referred as a base switch. And then, if the system detects L→H at another switch (SW-A or SW-B) within 3 sec, the system outputs a signal to LOAD, FWD, and BWD, and rotates the motor in the loading direction.

After starting of the loading, SW-A or SW-B enters operation to detect of H→L. When the system detects L→H at SW-C while both SW-A and SW-B go L, the system understands the disc size is 12 cm and continues the loading. But, when it is not detected the system understands an 8 cm disc is loaded and enters the eject operation.

In case of 12 cm disc, the system detects H→L at SW-D and completes the loading operation.

Monitoring time for switches executing the timing chart is shown on the timing chart. If the system can not detect for that time, it assumes a loading error exists and executes the eject timing chart after waiting of 30ms.

1. Loading

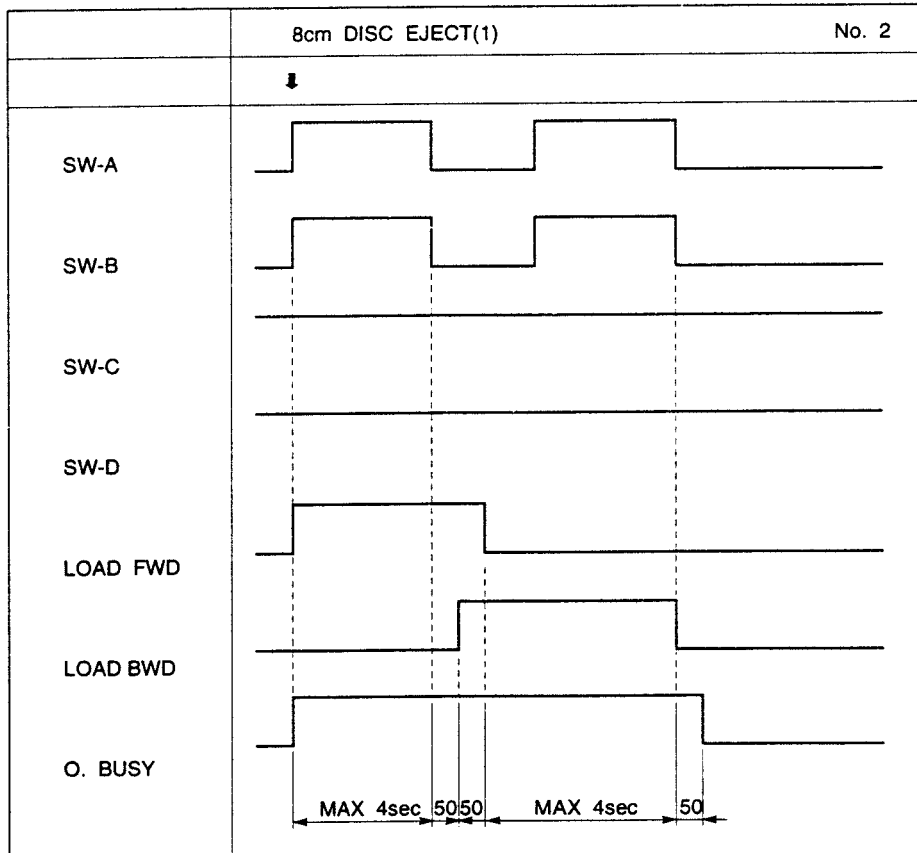
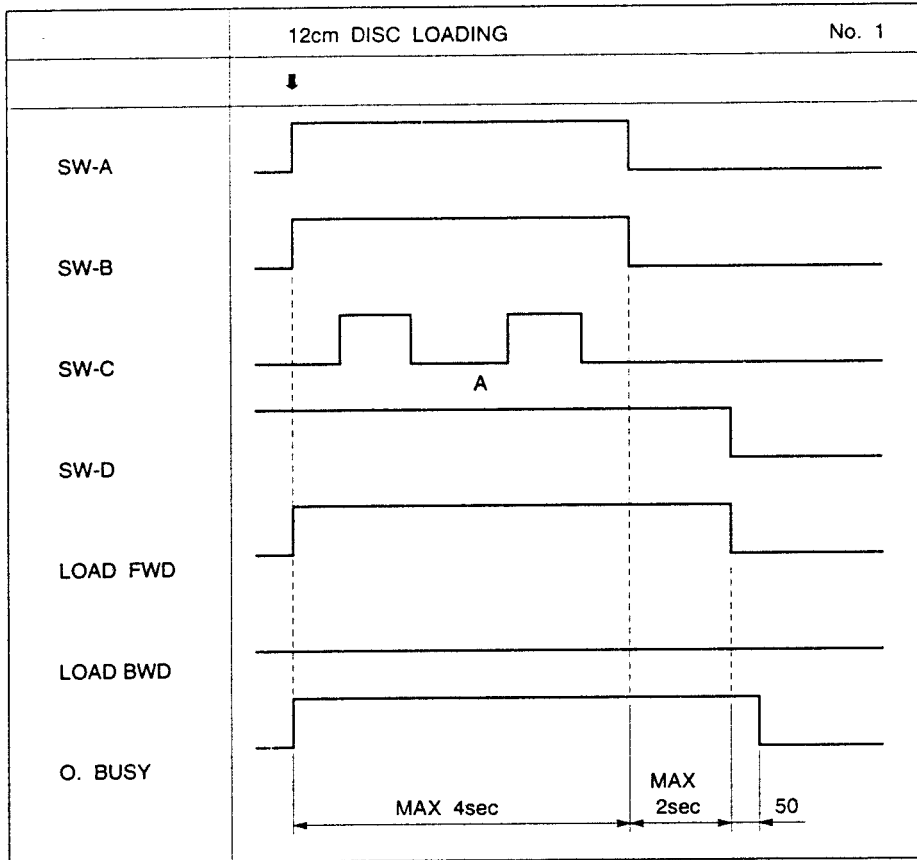
SW-AまたはSW-Bで、早くL→Hを検出したSWをベースのSWとする。その後、3sec以内に別のSW (SW-A or SW-B) がL→Hになったのを検出できれば、LOAD, FWD, BWDに信号を出しMOTORをLOADING方向へ回転させる。

LOADING開始後、次はSW-AまたはSW-BのH→Lを検出に入る。SW-AおよびSW-BがともにLになる間にSW-CのL→Hが検出された場合には12cm DISCとしてLOADINGをそのまま実行するが、検出出来ない場合には、8cm DISCがLOADINGされたものとして排出処理に入る。

12cmの場合には、SW-DのH→Lを検出してLOADING完了とする。

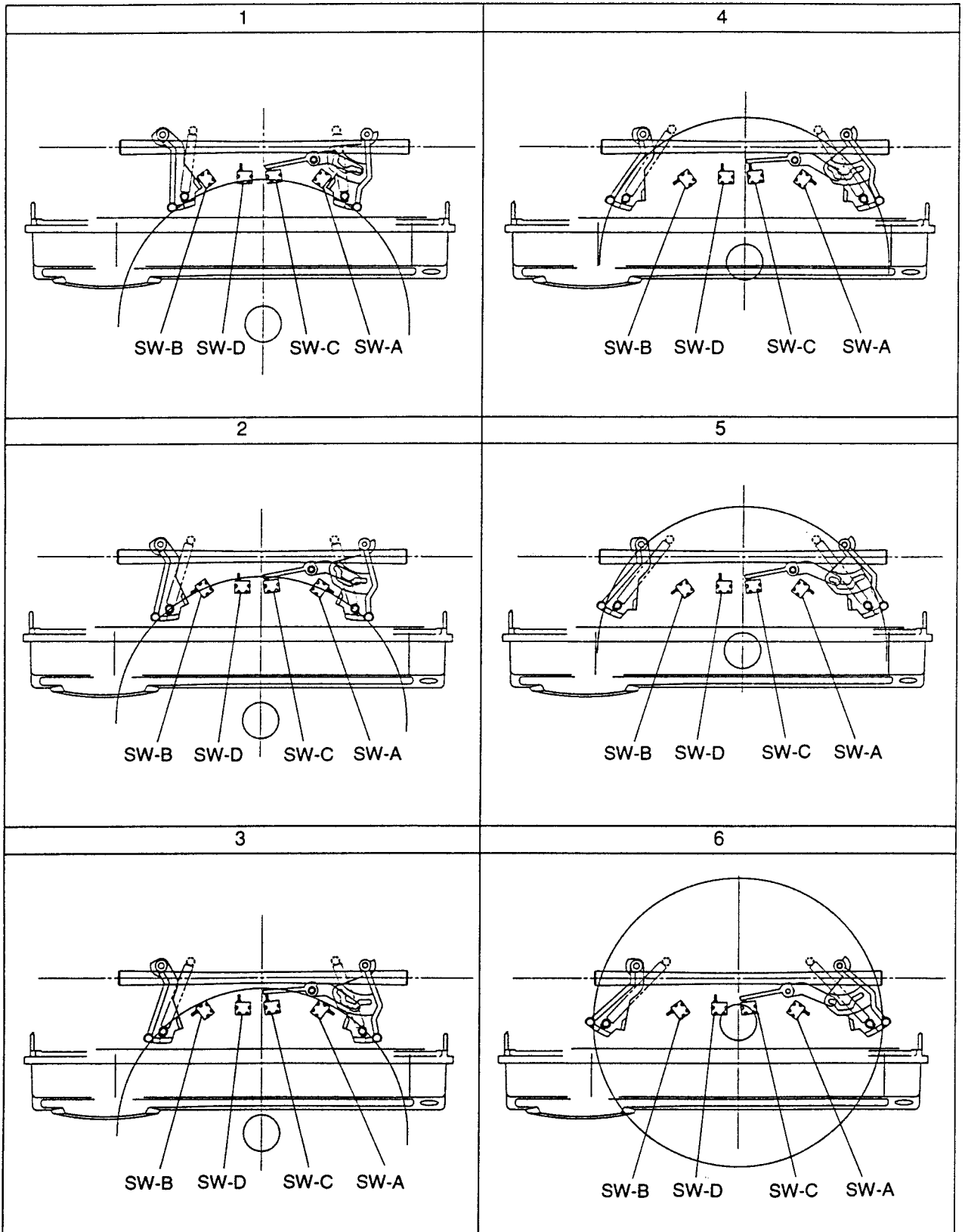
タイミングチャート実行時のSWの監視時間はタイミングチャート上に掲載してある通りとする。その時間に検出出来ない場合にはLOADING ERRORとし、300msのWAITを経た後、EJECTのタイミングチャートを実行する。

Timing chart
タイミングチャート



Switch operation in disc loading

ディスク・ローディング時における各スイッチの働き



2. Reload

After completion of the eject operation, a Reload condition occurs, and if SW-A and SW-B do not go "L" within 0.5 sec, the system executes No.4 timing chart to start the reloading. (If go "L", completes the eject.)

For other conditions, same as No.1.

※ Reload condition

SW-A and SW-B keep "H" for more than 0.5 sec.

(Disc is not removed after completion of the eject operation.)

2. RELOAD

EJECT完了後、RELOAD条件が発生し、且つ0.5sec以内にSW-AおよびSW-Bが“L”にならなかった場合には、No.4のタイミングチャートを実行しRELOADさせる。(なった場合にはEJECT完了とする)

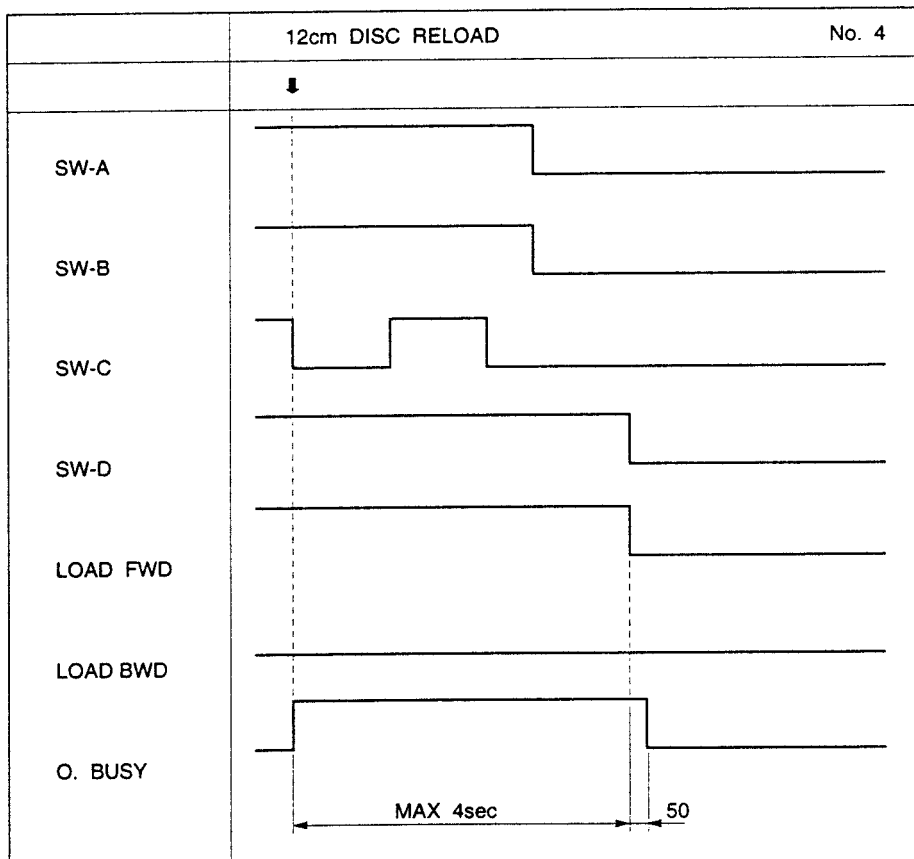
他の条件に関しては、No.1と同様である。

※ RELOAD条件

SW-AおよびSW-BがHのまま0.5sec以上となった場合 (EJECT完了後DISCを取らない状態)

Timing chart

タイミングチャート



3. Eject

The Eject process (by eject key) is not accepted for a mode other than mode shift period.

A 12 cm disc can be ejected by performing No.3 timing chart. That is, in terms of SW monitoring, L→H at SW-C is detected twice.

Eject from loading error mode

As disc size of 8 or 12 can be identified in the loading operation, the eject operation is carried out according to the identification.

In case of 8 cm disc:operations following B in No.2 are carried out, and 8 cm disc, No.3 operations are carried out.

3. EJECT

EJECT処理 (EJECT KEYによるもの) は、MODE移行時以外は受け付けるものとする。

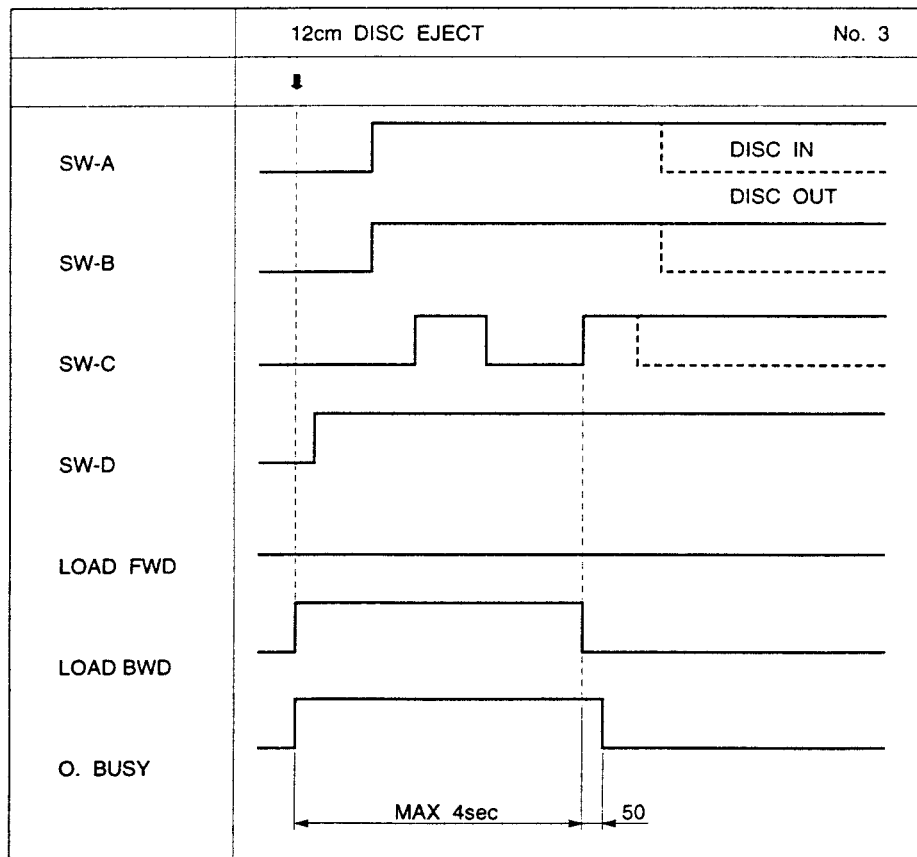
No.3のタイミングチャートを実行することにより、12cm DISCをEJECTすることが出来る。SWの監視としては、SW-CのL→Hを2回検出した場合である。

LOADING ERROR MODEからのEJECT

LOADING時に8cm/12cm DISCは判断出来るので、それに合わせたEJECT処理を行う。8cm DISCの場合は、No.2のB以降の処理を行い、12cm DISCの場合は、No.3の処理を行う。

Timing chart

タイミングチャート



4. Operations at ACC OFF

At ACC OFF, if the system is executing the timing chart, it completes the mode and then enters the standby mode.

However, if a DISC IN (disc is not removed) status is detected after completion of Eject, the system enters the standby mode after performing the loading to protect the disc. If a loading error occurs at that time, the system does not shift to the eject mode but shifts after the ACC ON.

Moreover, an OR operation is carried out for SW-A and SW-B and the result is fed to an interruption port. If it is "L"→"H", the system returns from the standby mode and carries out the loading operation.

After completion of the loading or determining the loading error, the system enters the standby mode again.

4. ACC OFF時の処理

ACC OFF時、タイミングチャート実行中であれば、そのMODEを完了してからSTAND BY MODEに入る。

但し、EJECT終了後DISC IN (抜き取られていない) の状態が検出されていたら、DISC保護のため、LOADINGを行ってからSTAND BY MODEに入る。その時LOADING ERRORが発生した場合には、EJECT MODEに以降せず、ACC ONを待って移行することとする。

また、ハードでSW-AとSW-BでORを取り、割り込みPORTに入力する。ACC OFF時にEJECT MODEであり、且つ割り込みPORTが“L” → “H” になった場合は、STAND BYから復帰しLOADING動作を行う。

LOADING完了またはLOADING ERROR確定後、再度STAND BY MODEに入ることとする。

5. Operations at ACC ON

At the ACC ON, previous mode is continued.

5. ACC ON時の処理

ACC ON時は前のMODEを継続することとする。

6. Return from eject error

When both SW-A and SW-B go "H"→"L" in Eject error mode, the system completes the eject operation by assuming the disc is removed.

6. EJECT ERRORよりの復帰

EJECT ERROR MODE時にSW-AおよびSW-Bがともに“H” → “L” になった場合には、DISCが引き抜かれたものとしてEJECT完了とする。

7. Emergency eject process

Eject key is not accepted in all modes. However, when ejecting in a mode other than chucking status (C mode), the system performs the loading operation once and then ejects as in initialization. (To prevent disc from popping out.)

7. 緊急EJECT処理

すべてのMODEにおいてEJECT KEYは受け付けるものとする。

但し、チャッキング状態 (C MODE) 以外からEJECTする場合には、イニシャライズ時と同じように、いったんLOADINGをしてからEJECTするものとする。(DISCの飛び出しを防ぐため)

8. BATT detection

When the BATT detection port detects BATT OFF, the system enters the standby mode under any conditions. After releasing the standby, the system checks status of the switches and performs initialization process if the status is other than the chucking status (C mode).

8. BATT検知

BATT検知のPORTがBATT OFFを検知したら、無条件にSTAND BY MODEに入る。

STAND BY解除後の処理としては、SWの状態を確認し、チャッキング状態 (C MODE) 以外の場合には、イニシャライズ処理を行うものとする。

9. Timing allowance

Basically $\pm 10\%$.

9. タイミングの公差について

$\pm 10\%$ を基本とする。

10. Elimination of switch chattering

Performs for 8 ms and 2 time coincidence.

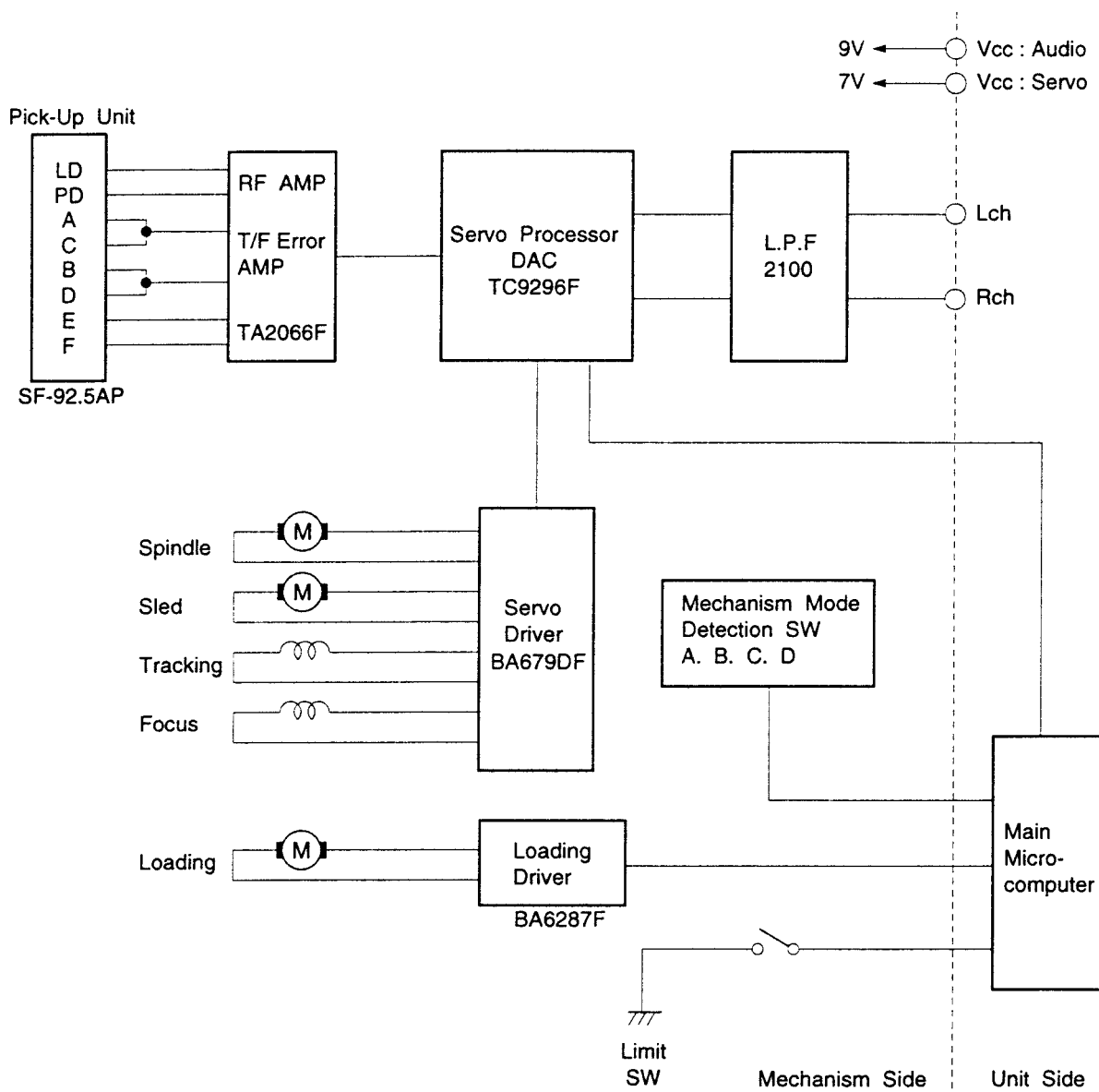
10. SWのチャタリング取り処理について

8msで行い、2度一致とする。

<Power circuit>

<電気回路>

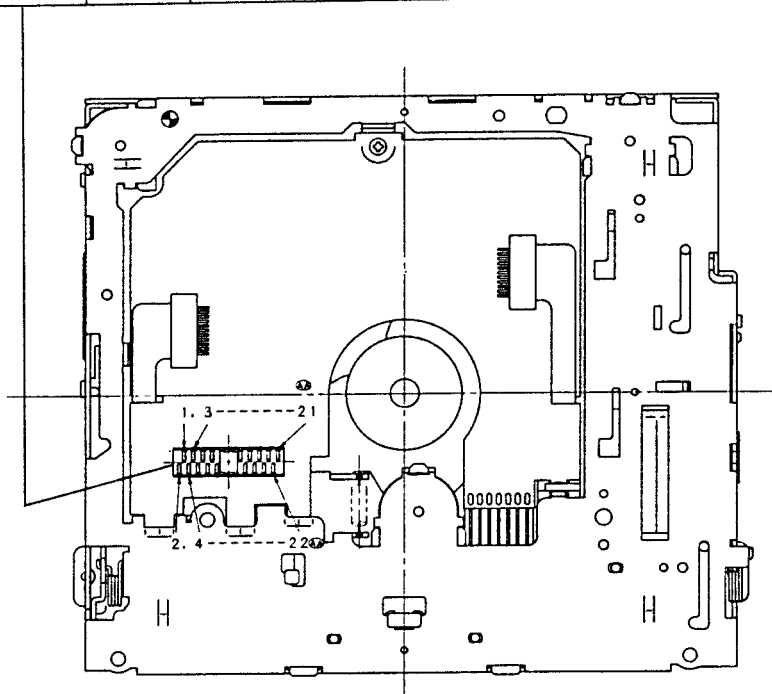
1. Block diagram
1. ブロックダイアグラム



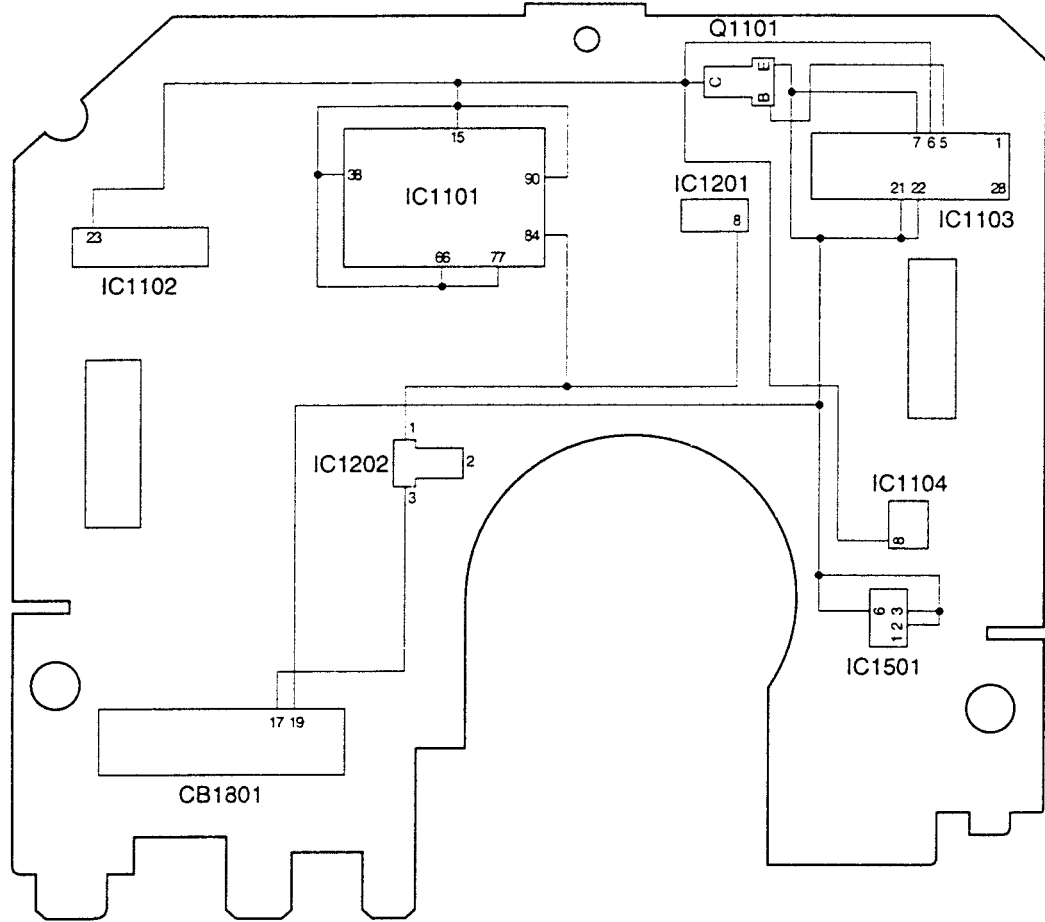
2. Connector terminal location diagram

2. コネクター端子配列表

PIN NO.	1	2	3	4	5	6	7	8	9	10	11
	RESET	SW-A	SW-B	SW-C	SW-D	LIMIT SW	NC	BUS0	BUS1	BUS2	BUS3
PIN NO.	12	13	14	15	16	17	18	19	20	21	22
	/CCE	BUCK	LOAD-FWD	/LOCK	LOAD-RWD	AUDIO +B	L	SERVO +B	S. GND	GND	R

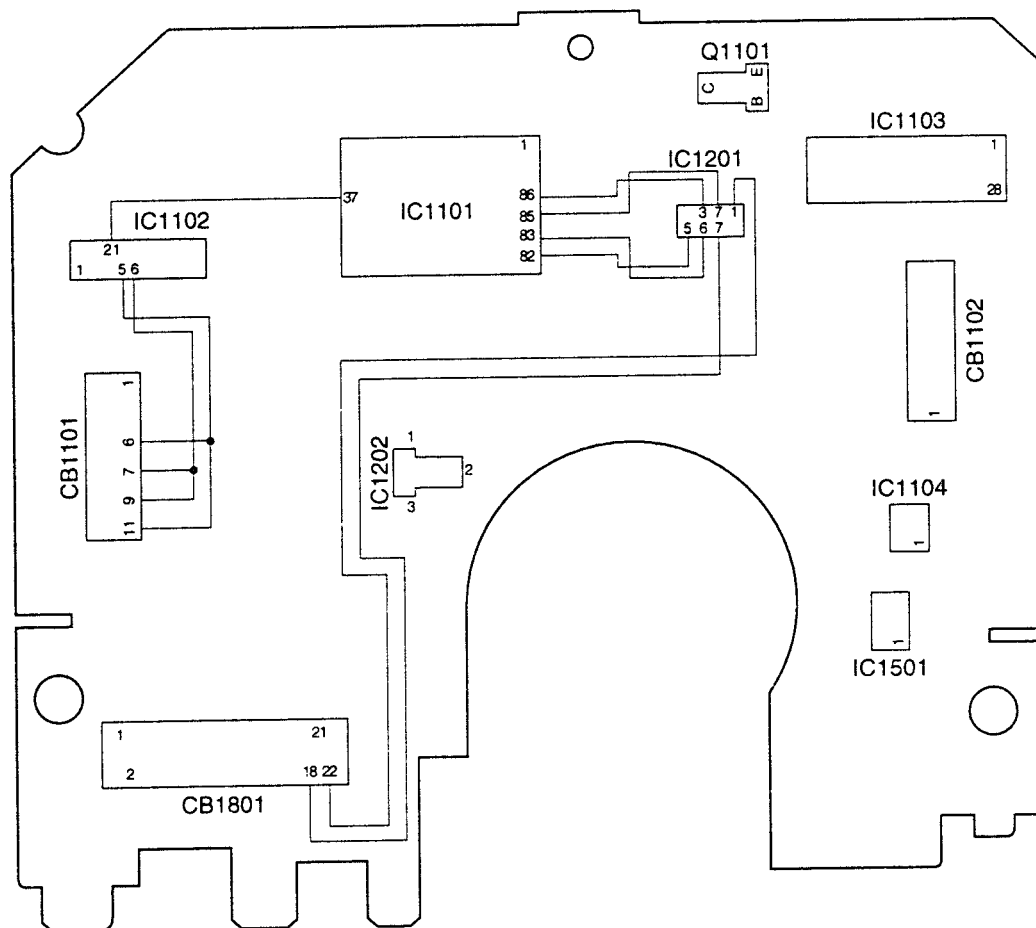


3. Power supply line
3. 電源ライン



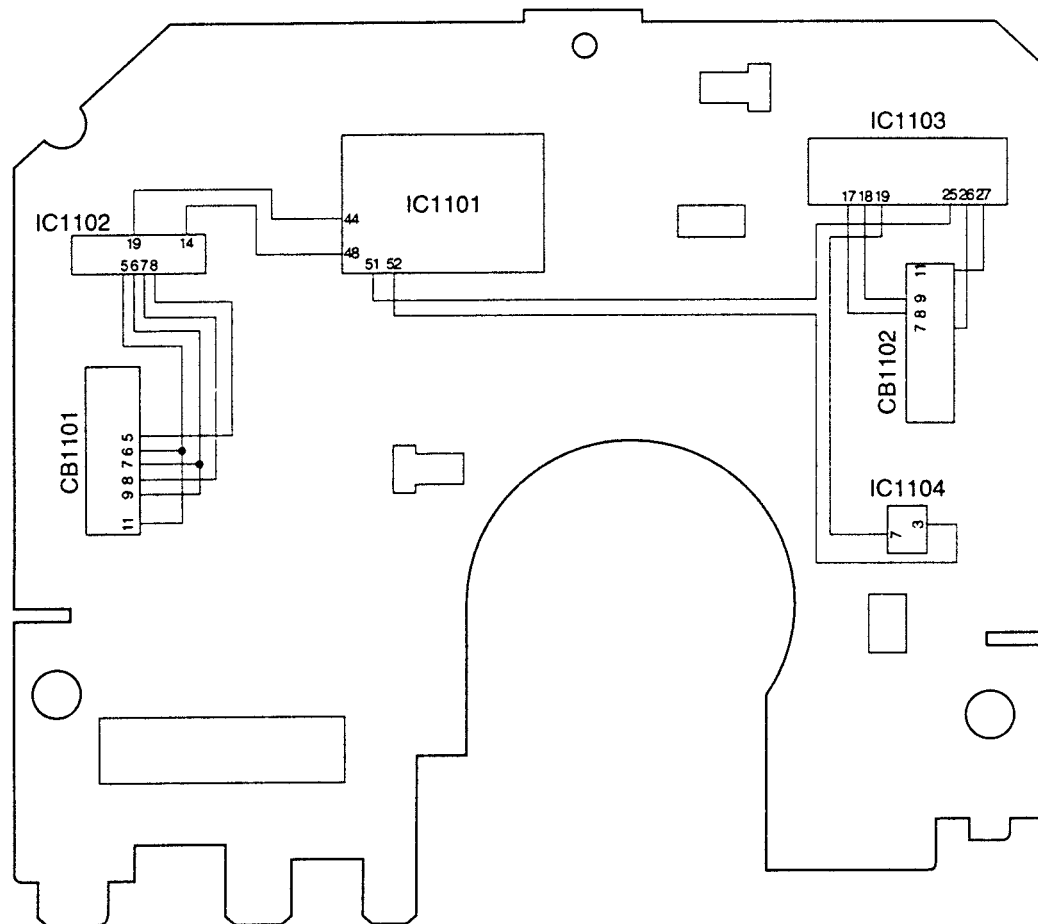
Ref. No.	Function/機能	Input terminal/入力端子	Voltage/電圧
IC1101	Servo processor	⑤ ③ ⑥ ⑦ ② ③	5V
IC1102	RF AMP F/T error AMP	②	5V
IC1103	Servo driver	⑦ ② ②	7V
IC1104	Tracking error AMP	⑧	5V
IC1201	Low pass filter	⑧	5V
IC1202	Regulator	③	9V
Q1101	Regulator	Emitter	7V
IC1501	Loading motor driver	② ③ ⑥	7V

4. Signal line
4. 信号ライン



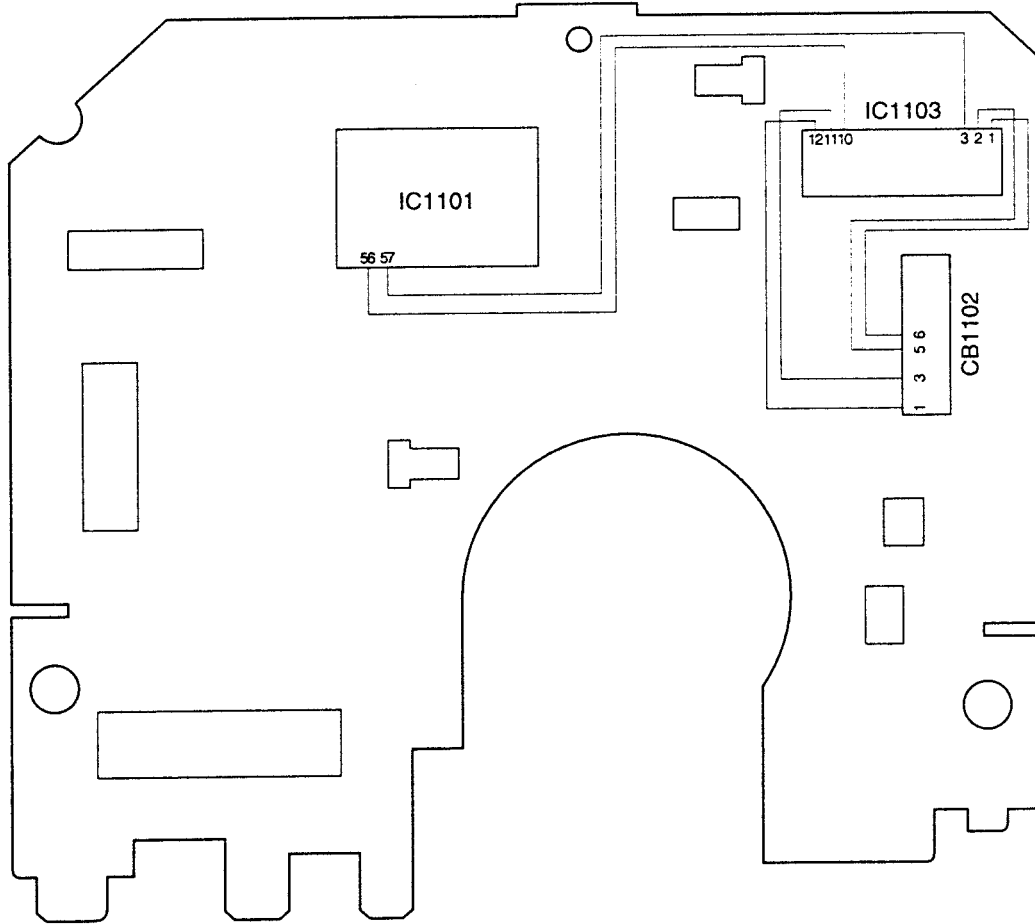
Ref. No.	Function/機能	Input terminal/入力端子	Output terminal/出力端子
IC1101	Servo processor	⑦	⑳ ㉑ ㉒ ㉓
IC1102	RF AMP F/T error AMP	⑤ ⑥	㉑
IC1201	Low pass filter	② ③ ⑤ ⑥	① ⑦

- 5. Focus/Tracking control
- 5. フォーカストラッキングコントロール



Ref. No.	Function/機能	Input terminal/入力端子		Output terminal/出力端子	
		Focus	Tracking	Focus	Tracking
IC1101	Servo processor	④	⑤	⑥	⑦
IC1102	RF AMP F/T error AMP	⑧ ⑨	⑩ ⑪	⑫	⑬
IC1103	Servo driver	⑭	⑮	⑯ ⑰	⑱ ⑲
IC1104	Tracking error AMP		⑳		㉑

6. Sled/Spindle control
6. スレッド/スピンドルコントロール



Ref. No.	Function/機能	Input terminal/入力端子		Output terminal/出力端子	
		Sled	Spindle	Sled	Spindle
IC1101	Servo processor			⑦	⑤
IC1103	Servo driver	③	⑩	① ②	⑪ ⑫

Component Disassembly and Assembly Notes

機能部品の分解方法及び組立上の注意

1. Switch/Motor P.C.Board disassembly

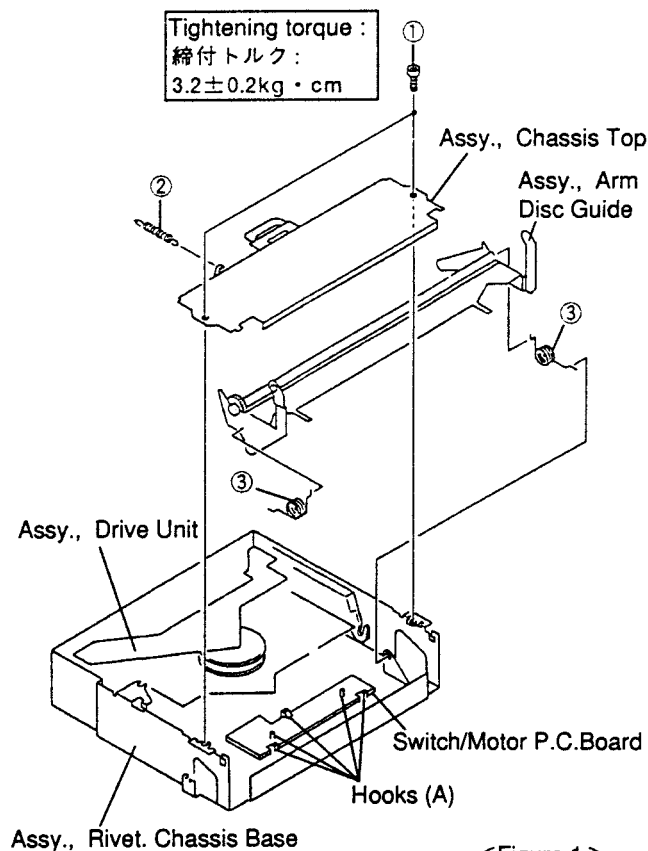
- (1) Remove two screws ① and the spring ②, remove the Assy., Chassis Top. (See Figure 1)
- (2) Remove two springs ③, remove the Assy., Arm Disc Guide. (See Figure 1)
- (3) Remove five Hooks (A), the parallel wire and two wires. (See Figure 1)

The Switch/Motor P.C.Board can be removed.

1. スイッチ/モーター基板の分解方法

- (1) 2本のネジ①とスプリング②を外し、シャーシ・トップ組立を外します。(1図参照)
- (2) 2本のスプリング③を外し、アーム・ディスク・ガイド組立を外します。(1図参照)
- (3) 5箇所のフック (A)、パラレル・ワイヤー、2本のワイヤーを外します。

以上で、スイッチ/モーター基板は外れます。



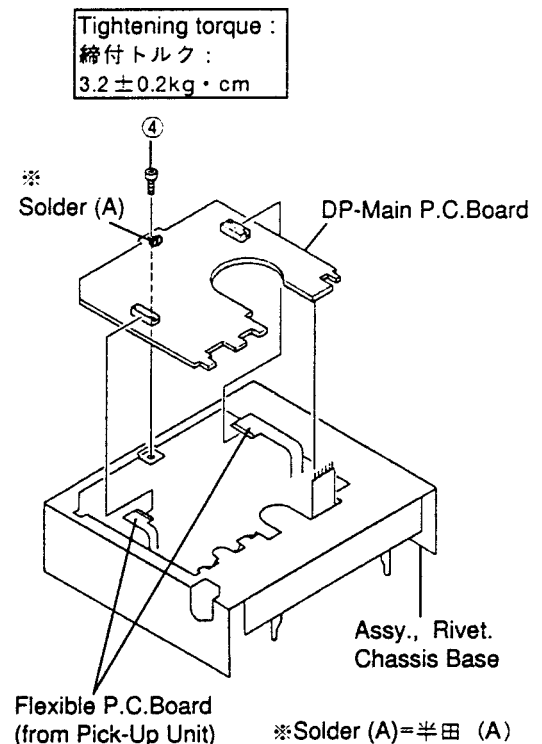
<Figure 1 >
<1図 >

2. DP-Main P.C.Board disassembly

- (1) Remove the solder (A) and a screw ④. (See Figure 2)
- (2) Remove all connectors connected to the DP-Main P.C.Board. The DP-Main P.C.Board can be removed.

2. DP-メイン基板の分解方法

- (1) 半田 (A) と1本のネジ④を外します。(2図参照)
 - (2) DP-メイン基板につながる全てのコネクタを外します。
- 以上で、DP-メイン基板は外れます。



<Figure 2 >
<2図 >

3. Assy., Drive Unit disassembly

- (1) Remove the Lever End, the Slider Lock (R) and the Arm Lock (R). (See Figure 3)
- (2) Remove three springs ⑤, pull up the Assy., Drive Unit. (See Figure 3)
The Assy., Drive Unit can be removed.

<Assembly note >

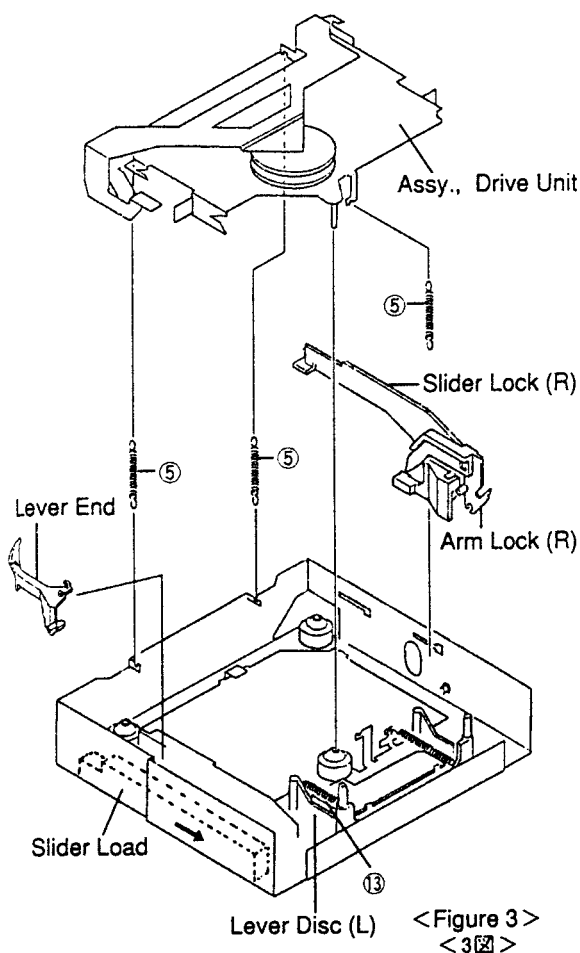
- Move the Slider Load fully in the direction indicated by the arrow. (See Figure 3)

3. ドライブ・ユニット組立の分解方法

- (1) レバー・エンド、スライダ・ロック (R)、アーム・ロック (R) を外します。(3図参照)
- (2) 3本のネジ ⑤ を外し、ドライブ・ユニット組立を外します。(3図参照)
以上で、ドライブ・ユニット組立は外れます。

<組立上の注意 >

- スライダー・ロードが矢印の方向へ一杯に移動した状態で組み立ててください。(3図参照)



4. Assy., Motor Spindle (M1302) disassembly

- (1) Remove the spring ⑥, remove the Assy., Arm Clamp. (See Figure 4)
- (2) Move the Pick-Up Unit (HD1201) fully in the direction indicated by the arrow, remove two screws ⑦. (See Figure 4)
- (3) Remove two wires connected to the FPC DP-L Control P.C.Board.
The Assy., Motor Spindle (M1302) can be removed.

<Assembly notes >

- Always wear an electrostatic discharge band.
- Never touch the lens of the Pick-Up Unit.

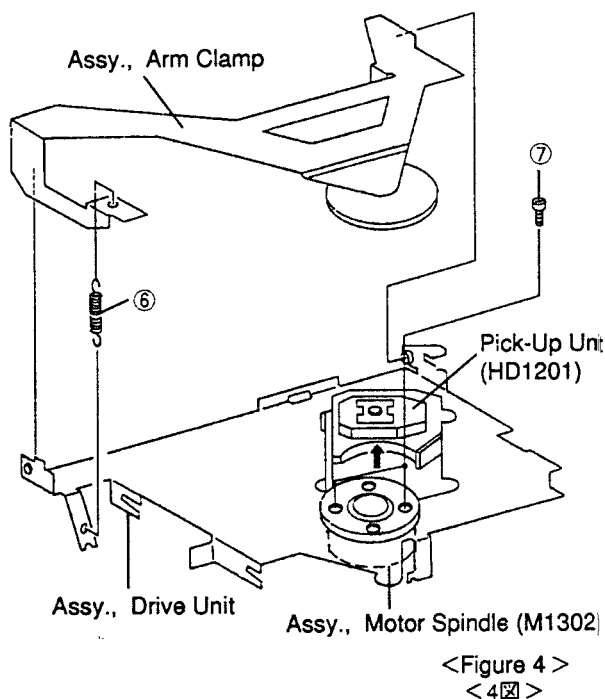
4. モーター・スピンドル組立 (M1302) の分解方法

- (1) スプリング ⑥ を外し、アーム・クランプ組立を外します。(4図参照)
- (2) ピック・アップ・ユニット (HD1201) を矢印の方向へ一杯に動かし、2本のネジ ⑦ を外します。(4図参照)
- (3) FPC DP-Lコントロール基板につながるワイヤーを外します。
以上で、モーター・スピンドル組立 (M1302) は外れます。

<組立上の注意 >

- 静電バンドを付けて作業して下さい。
- ピック・アップ・ユニットのレンズには絶対に手を触れないで下さい。

Tightening torque :
締付トルク :
1.5±0.2kg・cm



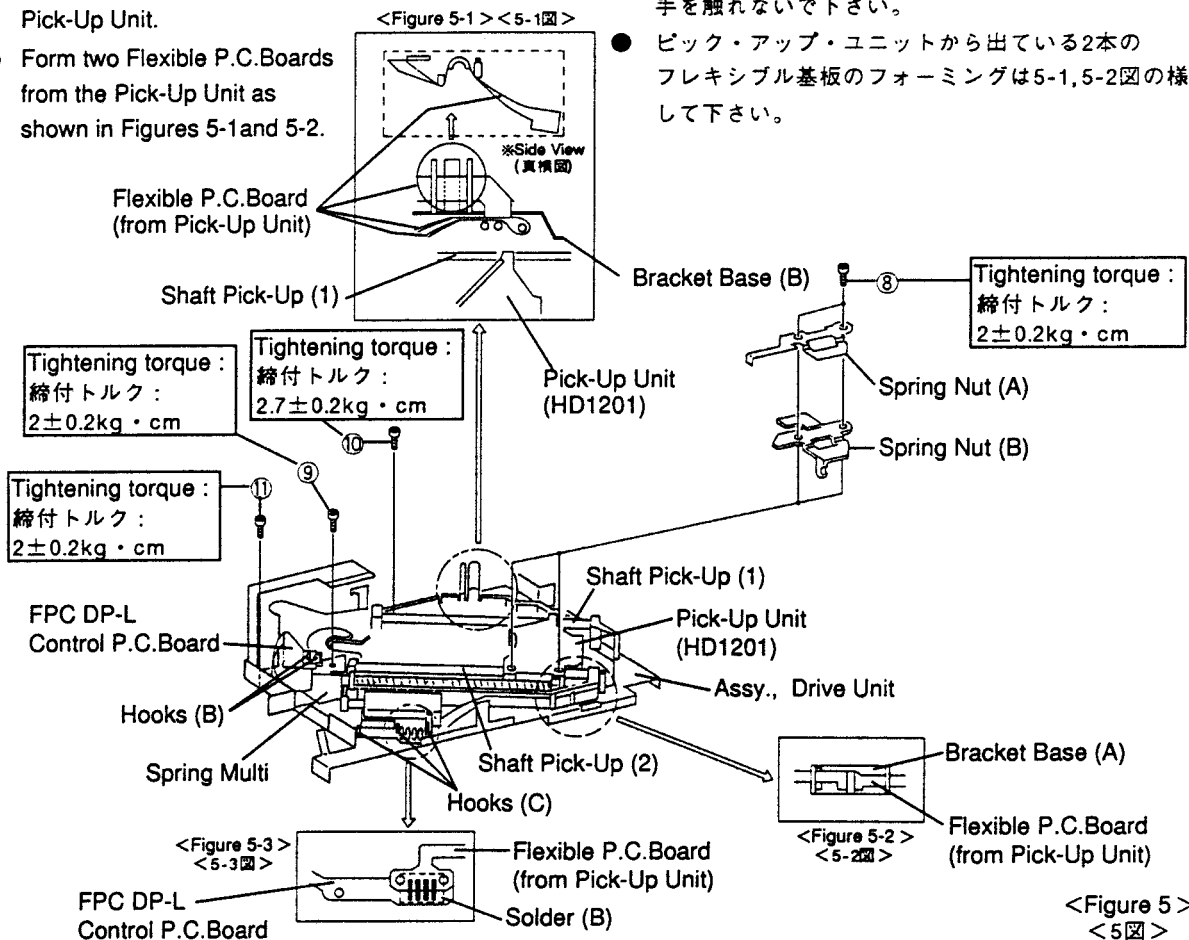
5. Pick-Up Unit (HD1201) disassembly

- Wear an electrostatic discharge band, when disassembling the Pick-Up Unit.
Do not touch the lens or the P.C.Board.

- (1) Remove two screws ⑧, remove the Spring Nut (A), (B). (See Figure 5)
 - (2) Remove two Hooks (B), remove the FPC DP-L Control P.C.Board. (See Figure 5)
 - (3) Remove a screw ⑨, remove the Spring Multi. (See Figure 5)
The Shaft Pick-Up (2) can be removed.
 - (4) Remove a screw ⑩, remove the Shaft Pick-Up (1). (See Figure 5)
 - (5) Remove the Solder (B) connected between the FPC DP-L Control P.C.Board and the Flexible P.C.Board (from the Pick-Up Unit). (See Figure 5-3)
- NOTE : Do not cut the Flexible P.C.Board by removing the Solder (B).
The Pick-Up Unit (HD1201) can be removed.

<Assembly notes>

- Always wear an electrostatic discharge band.
- Never touch the lens or the P.C.Board of the Pick-Up Unit.
- Form two Flexible P.C.Boards from the Pick-Up Unit as shown in Figures 5-1 and 5-2.



5. ピック・アップ・ユニット (HD1201) の分解方法

- ピック・アップ・ユニットを外す際は、静電バンドを付けて作業して下さい。また、レンズや基板には手を触れないで下さい。

- (1) 2本のネジ ⑧ を外し、スプリング・ナット (A)、(B) を外します。(5図参照)
- (2) 2箇所のフック (B) を外し、FPC DP-Lコントロール基板を外します。(5図参照)
- (3) 1本のネジ ⑨ を外し、スプリング・マルチを外します。(5図参照)
以上で、シャフト・ピック・アップ (2) は外せます。
- (4) 1本のネジ ⑩ を外し、シャフト・ピック・アップ (1) を外します。(5図参照)
- (5) FPC DP-Lコントロール基板とフレキシブル基板を接続している半田 (B) を外します。(5-3図参照)
注) 半田 (B) を外す際に、フレキシブル基板を損傷しない様、注意して下さい。
以上で、ピック・アップ・ユニット (HD1201) は外れます。

<組立上の注意>

- 静電バンドを付けて作業して下さい。
- ピック・アップ・ユニットのレンズや基板には絶対に手を触れないで下さい。
- ピック・アップ・ユニットから出ている2本のフレキシブル基板のフォーミングは5-1, 5-2図の様にして下さい。

6. Assy., Motor Sled (M1303) disassembly

- (1) Remove two screws ⑫ (See Figure 6), remove three Hooks (C) (See Figure 5) and a screw ⑪ (See Figure 5).

The Assy., Motor Sled (M1303) can be removed.

< Assembly notes >

- Mount the Assy., Motor Sled (M1303) so the seal side is correct. (See Figure 6-1)
- Form the FPC DP-L Control P.C. Board as shown in Figure 6-1.

6. モーター・スレッド組立 (M1303) の分解方法

- (1) 2本のネジ⑫ (6図参照) を外し、3箇所のフック (C) (5図参照) と1本のネジ⑪ (5図参照) を外します。
以上で、モーター・スレッド組立 (M1303) は外れます。

< 組立上の注意 >

- モーター・スレッド組立 (M1303) は、捺印の位置に注意して取り付けて下さい。(6-1図参照)
- FPC DP-Lコントロール基板のフォーミングは6-1図の様にして下さい。

7. Assy., Motor-Worm (M1301) disassembly

- (1) Remove the spring ⑬, remove the Lever Disc (L). (See Figure 3)

- (2) Remove three screws ⑭, remove the Bracket Motor-Wire. (See Figure 7)

The Assy., Motor-Worm (M1301) with the Slider Lock (L) and the Assy., Bracket Motor can be removed completely.

- (3) Remove the spring ⑮, remove the Slider Lock (L) and the Arm Lock (L). (See Figure 8)

- (4) Remove two screws ⑯. (See Figure 8)

The Assy., Motor-Worm (M1301) can be removed.

< Assembly notes >

- Mount the Assy., Motor-Worm (M1301) so the seal side is correct. (See Figure 8-1)
- Form the wires of Assy., Motor-Worm (M1301) as shown in Figures 8-1 and 8-2.

7. モーター・ウォーム組立 (M1301) の分解方法

- (1) スプリング⑬を外し、レバー・ディスク (L) を外します。(3図参照)

- (2) 3本のネジ⑭を外し、ブラケット・モーター・ワイヤーを外します。(7図参照)

モーター・ウォーム組立 (M1301) は、スライダ・ロック (L)、ブラケット・モーター組立が付いた状態で一緒に外れます。

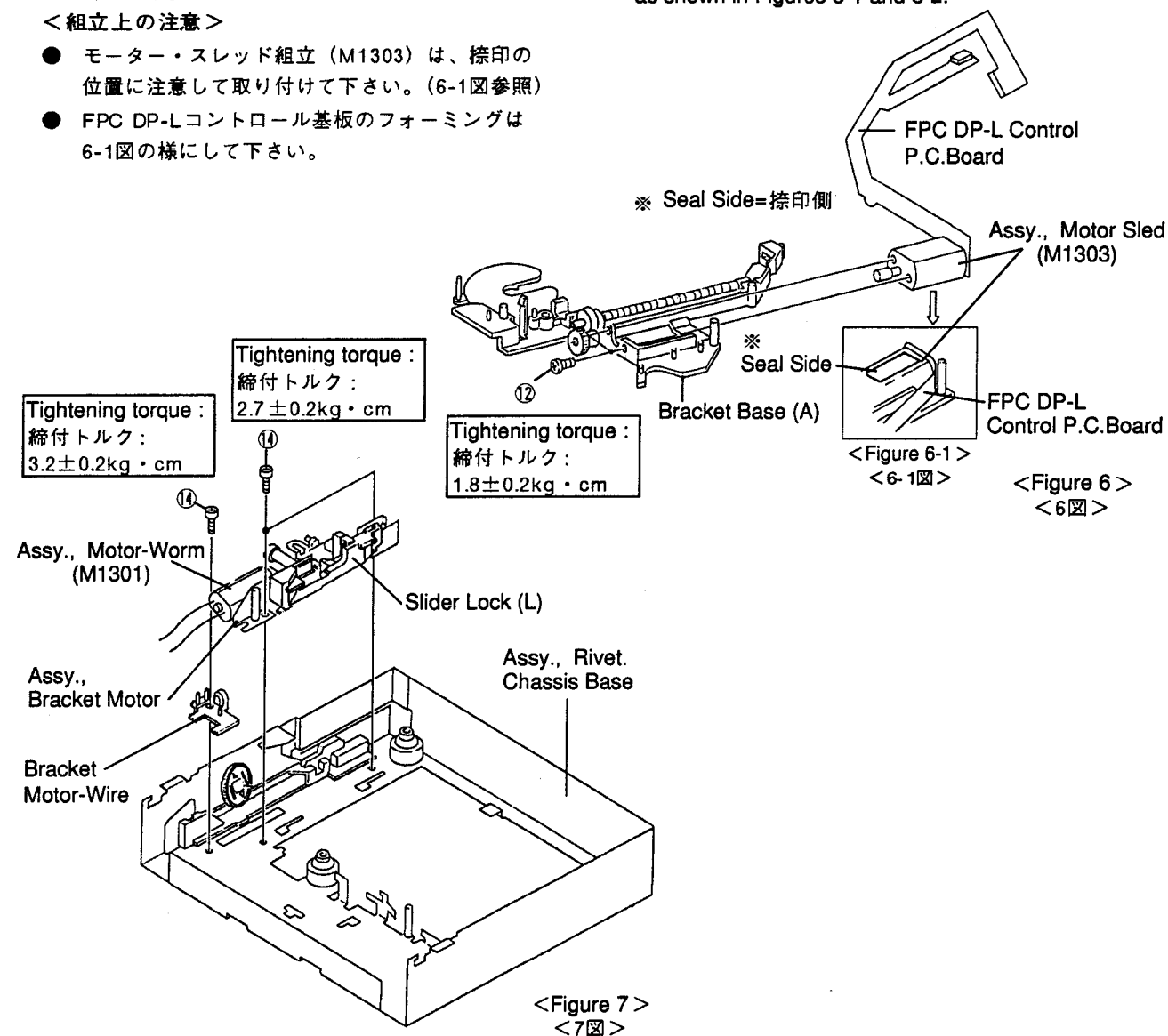
- (3) スプリング⑮を外し、スライダ・ロック (L) とアーム・ロック (L) を外します。(8図参照)

- (4) 2本のネジ⑯を外します。(8図参照)

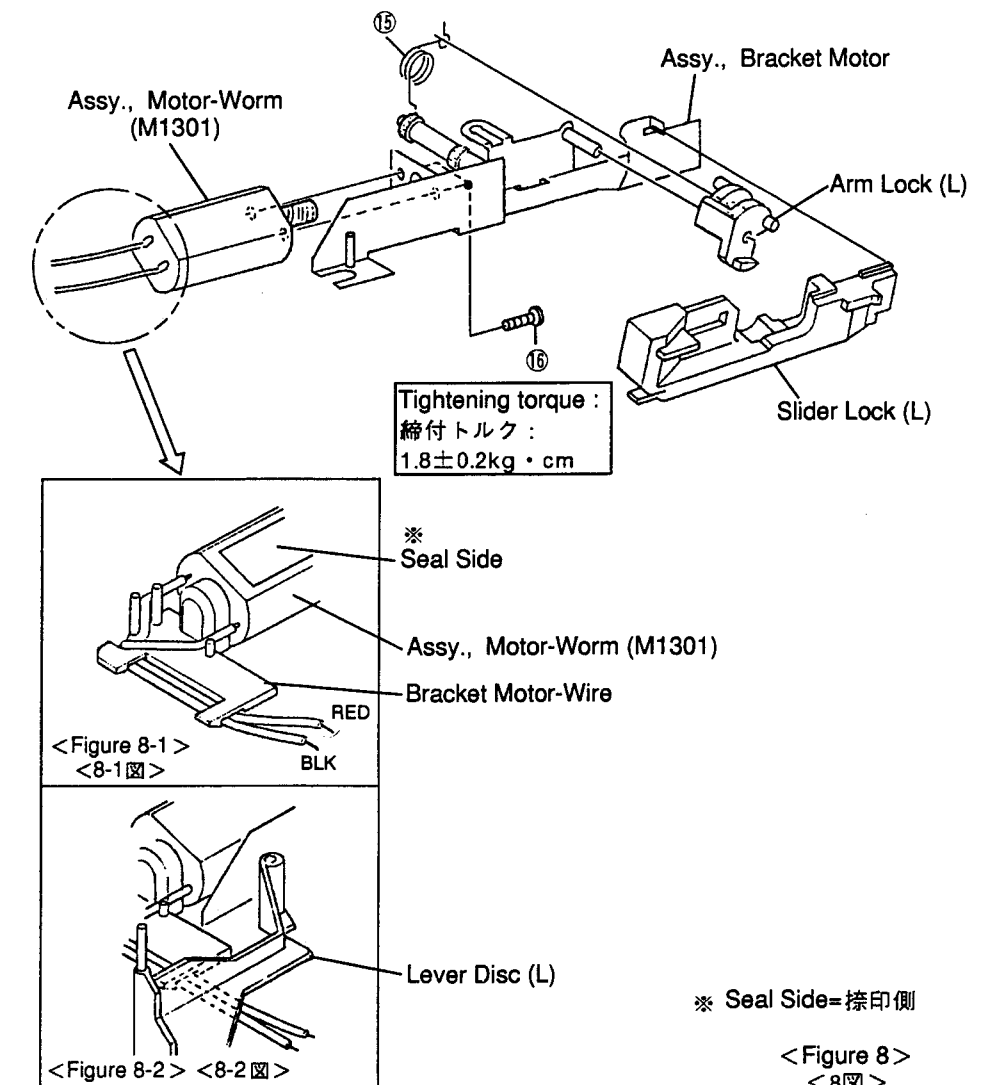
以上で、モーター・ウォーム組立 (M1301) は外れます。

< 組立上の注意 >

- モーター・ウォーム組立 (M1301) は、捺印の位置に注意して取り付けて下さい。(8-1図参照)
- モーター・ウォーム組立 (M1301) のフォーミングは、8-1,8-2図の様にして下さい。



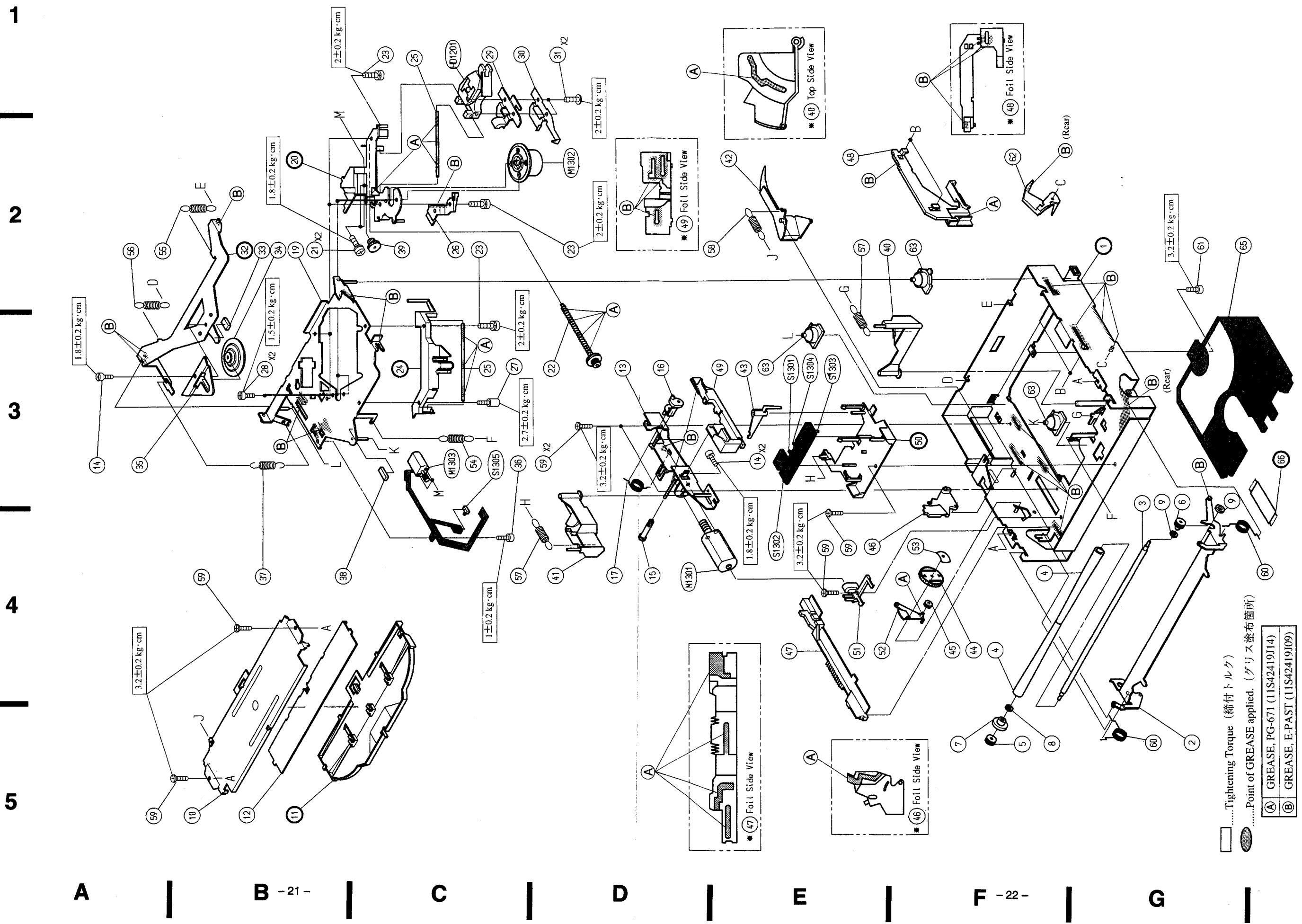
< Figure 7 >
< 7図 >



< Figure 8 >
< 8図 >

Exploded View (CD Mechanism)

DP-L SERIES DP-L SERIES



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2
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A | B -21- | C | D | E | F -22- | G

- Tightening Torque (締付トルク)
 - Point of GREASE applied. (グリス塗布箇所)
- | | |
|---|------------------------------|
| A | GREASE, PG-671 (11S42419J14) |
| B | GREASE, E-PAST (11S42419J09) |

CD Mechanism Assembly Parts List

NOTE: No parts number on parts list are not supplied.

Symbol No.	Index	Part No.	Description	Symbol No.	Index	Part No.	Description
2	5-G	01B70635W01	Assy., Rivet Arm - Disc	53	4-F	41A70606W01	Spring, Washer
3	4-G	47A70613W01	Shaft, Roller	54	3-C	41B70640W01	Spring, Pull
4	4-F	49A71614W01	Roller, DP - L	55	2-A	41B70640W02	Spring, Pull
5	5-F	43A70630W01	Bush, Roller (R)	56	2-A	41B70640W03	Spring, Pull
6	5-G	43A70631W01	Bush, Roller (L)	57		41B70640W04	Spring, Pull
7	5-F	44A70617W01	Gear (C)	58	2-D	41B70640W05	Spring, Pull
8	5-F	04S40075G03	Washer, Flat (M1.7)	59		03S38013W29	Screw, Flat (M2 x3.5)
9	4-G	04S40075G09	Washer, Flat (M2.6)	60		41A71509W01	Spring, Roller
10	5-B	27C70602W01	Chassis, Top	61	2-G	03S38013W22	Screw, Pan (M2 x4)
12	5-B	15C70632W01	Guide, Top	62	2-F	45B70623W01	Arm, Lock (R)
13	3-D	01A70636W01	Assy., Rivet Bracket Motor	63		75C71171W02	Damper, DP - L
14		03S94385F19	Screw, Nylok Pan (M2 x2.5)	65	2-G	14A80680W01	Insulator, DP - Main
15	4-D	44B80632W01	Gear, idler - S	Miscellaneous			
16	3-D	45B70624W01	Arm, Lock (L)	HD1201		88T55261W01	Pick - Up Unit
17	4-D	41A71510W01	Spring, Arm	M1301		01V73300W33	Assy., Motor - Worm (7V - 370mA)
19	2-B	01A70580W01	Assy., Chassis Pick - Up	M1302		01V73300W35	Assy., Motor Spindle (2V - 90mA)
21	2-B	03S40014G07	Screw, W / Washer (M2 x4)	M1303		01V73300W38	Assy., Motor Sled (7V - 370mA)
22	3-D	01V73300W39	Assy., Shaft Screw	S1301		40T25956W02	Switch, Detector (DISC CHUCKING POSITION)
23		03S40014G84	Screw, W / Washer (M2 x6.5)	S1302		40T25956W02	Switch, Detector (DISC LOAD)
25		47A50698W01	Shaft, Pick - Up	S1303		40T25956W01	Switch, Detector (DISC LOAD)
26	2-C	41A70587W01	Spring, Multi	S1304		40T25956W02	Switch, Detector (DISC END)
27	3-C	03A75516W02	Screw, Drive (M2 x5)	S1305		40T71025F03	Switch, Detector (LIMIT)
28	3-B	03S94385F03	Screw, Nylok Pan (M1.7 x4)				
29	1-C	44B70592W01	Spring, Nut (B)				
30	1-D	41A70586W01	Spring, Nut (A)				
31	1-D	03S94385F25	Screw, Nylok Flat (M2 x3.5)				
33	2-B	43A41656W01	Spacer, UHMW - PE				
34	2-B	01V73300W37	Assy., Table Clamper				
35	3-A	07A70588W01	Stopper, Clamp				
36	3-C	03S72235F76	Screw, Pan (M2 x2)				
37	4-B	41B70640W06	Spring, Pull				
38	4-B	75S50638W99	Rubber, Pad Chassis				
39	2-C	44A70590W01	Gear, Middle				
40	2-E	45B70626W01	Lever, Disc (R)				
41	4-D	45B70627W01	Lever, Disc (L)				
42	2-E	45B70628W01	Lever, End				
43	3-E	45A70629W01	Lever, Switch				
44	4-F	44A70615W01	Gear (A)				
45	4-F	44A70616W01	Gear (B)				
46	4-E	45B70619W01	Lever, Cam				
47	4-E	45C70620W01	Slider, Load				
48	2-E	45B70621W01	Slider, Lock (R)				
49	3-E	45B70622W01	Slider, Lock (L)				
51	4-E	07A70633W01	Bracket, Motor - Wire				
52	4-E	01A70637W01	Assy., Rivet Arm Timing				

ALPINE SERVICE MANUAL

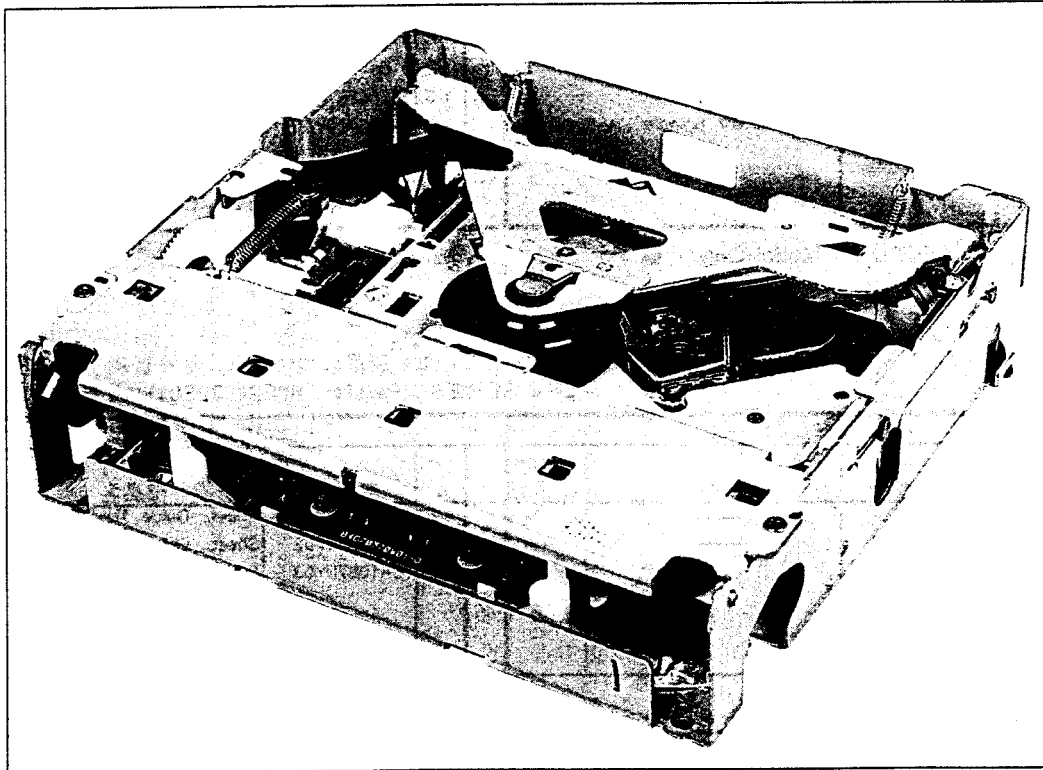


V23251

CD Player Mechanism

ADDENDUM & REVISED (III)

- This manual is described on DP23L05A/DP24L05A only. The DP23L05A/DP24L05A is developed from DP23L010. For information that is not mentioned in this service manual, refer to the Service Manual • DP-L SERIES (68E24872S01). *V19009 30*
- 当マニュアルはDP23L05A/DP24L05Aについてのみ記載しております。又、DP23L010がベースモデルとなっておりますので、相違部分のみ記載しております。詳細についてはDP-L SERIES (68E24872S01) を参照願います。



DP-L SERIES

Contents

CD Mechanism Assembly Parts List (Only Difference)	2
Exploded View (CD Mechanism)	3 to 4
Mechanism Function Description Component Disassembly and Assembly Notes } Refer to the Service Manual for DP-L Series (Part No. 68E23246S01).	

Cabinet Assembly Parts List

NOTE : For the parts not mentioned, refer to the Service Manual for DP-L SERIES (Part No. 68E24872S01).

Model		DP-L SERIES		DP23L05A/DP24L05A			
Symbol No.	Index	Part No.	Description		Index	Part No.	Description
67		—	—		4-B	75A10573Y01	Sheet, Guide Top
68		—	—		4-C	75A10573Y02	Sheet, Guide Top
69		—	—		2-B	75A10573Y03	Sheet, Guide Top
Miscellaneous							
HD1201	1-C	81B81296W01	Pick-Up Unit	○	1-C	81B81296W02	Pick-Up Unit
or	1-C	—	—	○	1-C	81B10890Y01	Pick-Up Unit
HD1201	1-C	81B81296W01	Pick-Up Unit	●	1-C	88T55261W01	Pick-Up Unit
M1302	2-D	01V94200W03	Assy., Motor Spindle (3V-90mA)		2-D	01V73300W35	Assy., Motor Spindle (2V-90mA)

NOTE : ○ : For DP23L05A Model Only, ● : For DP24L05A Model Only, Others : Common.

キャビネット関係部品相違表

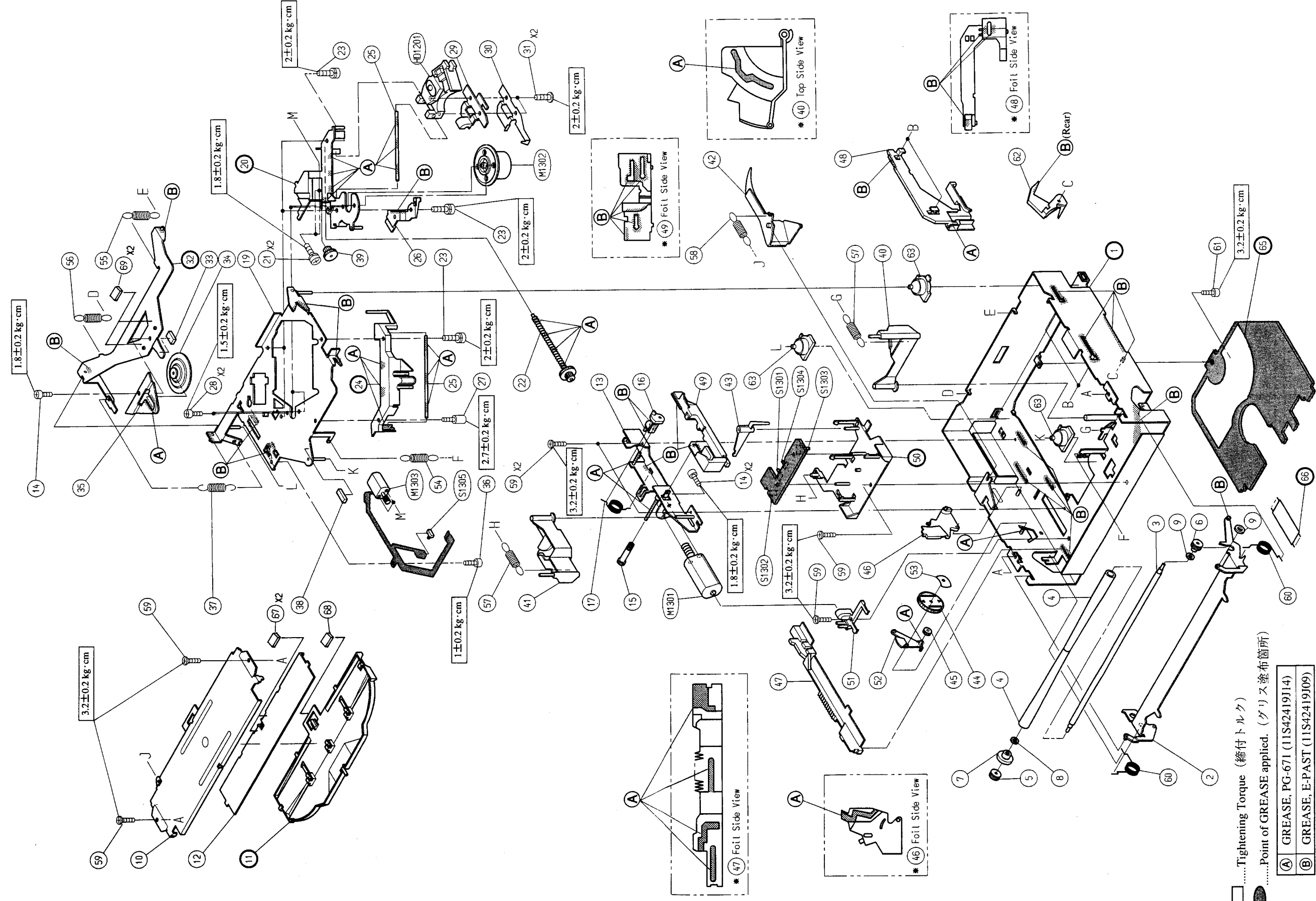
※ 記載されていない部品については、サービスマニュアル・DP-L SERIES (Part No. 68E24872S01) を参照願います。

Model		DP-L SERIES			DP23L05A/DP24L05A				
記号	索引	部品番号	部品名	標準卸価格		索引	部品番号	部品名	標準卸価格
67		—	—	—		4-B	75A10573Y01	Sheet, Guide Top	45
68		—	—	—		4-C	75A10573Y02	Sheet, Guide Top	45
69		—	—	—		2-B	75A10573Y03	Sheet, Guide Top	45
その他の電気部品									
HD1201	1-C	81B81296W01	Pick-Up Unit	3,350	○	1-C	81B81296W02	Pick-Up Unit	—
or	1-C	—	—	—	○	1-C	81B10890Y01	Pick-Up Unit	—
HD1201	1-C	81B81296W01	Pick-Up Unit	3,350	●	1-C	88T55261W01	Pick-Up Unit	3,350
M1302	2-D	01V94200W03	Assy., Motor Spindle (3V-90mA)	1,530		2-D	01V73300W35	Assy., Motor Spindle (3V-90mA)	1,440

注記 : ○ : DP23L05A モデル専用, ● : DP24L05A モデル専用, その他 : 共通

Exploded View (CD Mechanism)

1
2
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4
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A | B - 3 - | C | D | E | F - 4 - | G

[]Tightening Torque (締付トルク)
 [●]Point of GREASE applied. (グリス塗布箇所)
 (A) GREASE, PG-671 (11S42419J14)
 (B) GREASE, E-PAST (11S42419J09)