

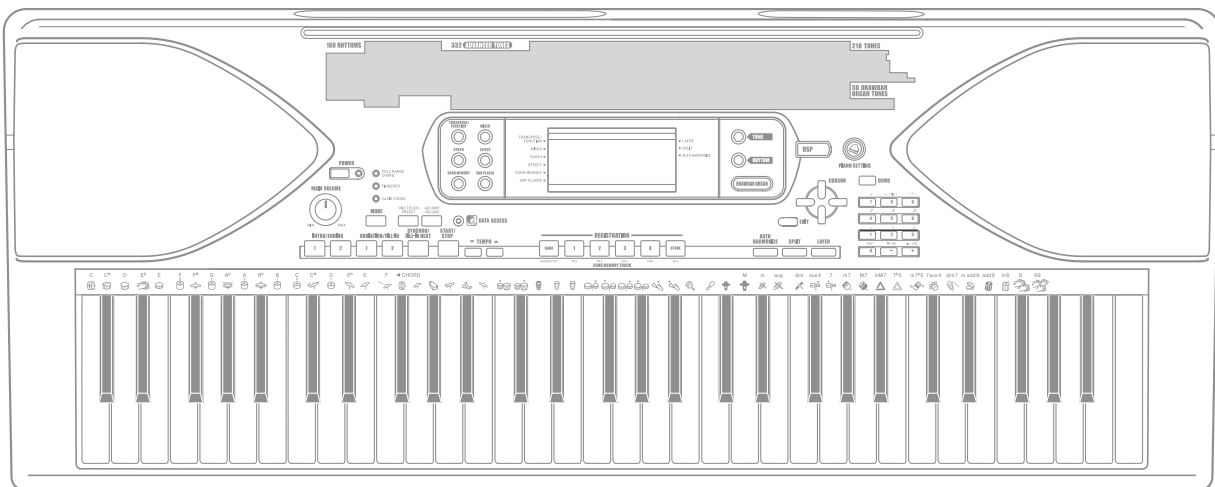
CASIO®

Service Manual

(without price)

CTK-900

MAY. 2005



CTK-900

ELECTRONIC KEYBOARD

Ver.2 : Nov. 2007

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SPECIFICATIONS

GENERAL

Keyboard: 61 standard-size keys, 5 octaves with touch response (Off / 1 / 2 / 3)

Tones: 332 Advanced Tones + 200 Preset Tones + 18 Drum Sets + 100 standard user tones + 20 user tones with waves* + 4 user drum sets with waves* + 50 drawbar organ tones + 100 user drawbar organ tones (824 tones total); layer/split

Polyphony: 32 notes maximum (10 for certain tones)

Effects: DSP (200 types: internal, 100 user areas) + Reverb (16 types) + Chorus (16 types) + Equalizer (10 types, 4 bands)

Auto Accompaniment

 Rhythm Patterns: 176 (internal, 16 user areas*)

 Tempo: Variable (226 steps, ♩ = 30 to 255)

 Chords: 3 fingering methods (CASIO CHORD, FINGERED, FULL RANGE CHORD)

 Rhythm Controller: START/STOP, INTRO/ENDING 1 and 2, VARIATION/FILL-IN 1 and 2, SYNCHRO/FILL-IN NEXT

 Accomp Volume: 0 to 127 (128 steps)

 One-touch Presets: Recalls settings for tone, tempo, layer on/off, and harmonize on/off in accordance with rhythm.

 Auto Harmonize: 10 types: Automatic addition of notes that harmonize with melody note in accordance with specified Auto Accompaniment chords.

Memory Function

Songs: 5

Recording Tracks: 6 (2 through 6 are melody tracks)

Recording Methods: Real-time, step

Memory Capacity: Approximately 10,000 notes (total for 5 songs)

Edit Function: Equipped

Demo Tunes: 3

Tune Number	Name	Composer	Play Time
0	Street Beatz	Steve Turner	2:10
1	Wind from the South	Hage Software	2:30
2	Serendipity Waltz	TECH-NOTE INTERNATIONAL LTD.	1:52

Synthesizer Function

Parameters: Attack time; release time; resonance; cutoff frequency; vibrato type; vibrato delay; vibrato depth; vibrato rate; octave shift; level; touch sense; reverb send; chorus send; DSP line; DSP type and DSP parameter, DSP level.

Registration Memory

Number of Setups: 32 (4 setups × 8 banks)

Memory Contents: Tone, Rhythm, Tempo, Layer on/off, Split on/off, Split point, Harmonize on/off, Mixer settings (Channels 1 to 10), Effect settings, Touch Response settings, Assignable jack setting, Transpose, Tuning, Accompaniment volume setting, Auto Harmonize type, MODE button setting, Synchro standby state, Mixer Hold, DSP Hold, Synthesizer Mode parameters

Mixer Function

Channels: 16

Parameters: Tone; part on/off; volume; pan pot; octave shift; coarse tune; fine tune; reverb send; chorus send; DSP line; DSP level; DSP pan; DSP system reverb send; DSP system chorus send

MIDI: 16 multi-timbre receive, GM Level 1 standard

Other Functions

Transpose: 49 steps (–24 semitones to +24 semitones)
Tuning: Variable (A4 = approximately 440Hz ±100 cents)
LCD: Adjustable contrast

SMF Player Flash memory storage for up to 200 files*
• Supported Format: SMF0

Flash Memory Capacity: 4MB (Shared Area: Approximately 3.5MB (waveform data, accompaniment data, SMF data))
• Further storage of waveform, accompaniment, and SMF data becomes impossible after the total of such data reaches approximately 3.5MB.

Terminals

MIDI Terminals: IN, OUT
Sustain/Assignable Terminal: Standard jack (sustain, sostenuto, soft, rhythm start/stop)
Headphone/Output Terminal: Stereo standard jack
Output Impedance: 140Ω
Output Voltage: 4.5V (RMS) MAX
Power Supply Terminal: 9V DC

Power Supply Dual power supply system
Batteries: 6 D-size batteries
Battery Life: Approximately 4 hours continuous operation on manganese batteries
AC Adaptor: AD-5
Auto Power Off: Turns power off approximately six minutes after last key operation. Enabled under battery power only, can be disabled manually.

Speaker Output: 3W + 3W

Power consumption: 9V = 7.7W

Dimensions: 96.0 × 37.5 × 14.6 cm (37 13/16 × 14 3/4 × 5 3/4 inch)

Weight: Approximately 5.6 kg (12.3lbs) (without batteries)

* The same memory area is used to store waveform data, accompaniment data, and SMF data.

ELECTRICAL

Current drain with 9 V DC:

Consumption Current 1200 mA ± 20 %

Consumption Current at idle 260 mA ± 20 %

with 16 keys from C1 to D#2 pressed in 479 OcarinaG

Volume: maximum, Velocity: maximum

Speaker output level (V_{rms} with 8 Ω load each channel):

with key E1 in 479 OcarinaG

Volume: maximum, Velocity: maximum R Channel: 3900 mV ± 20 %

L Channel: 4200 mV ± 20 %

Phone output level (V_{rms} with 32 Ω load each channel):

with key E1 in 479 OcarinaG

Volume: maximum, Velocity: maximum R Channel: 430 mV ± 20 %

L Channel: 470 mV ± 20 %

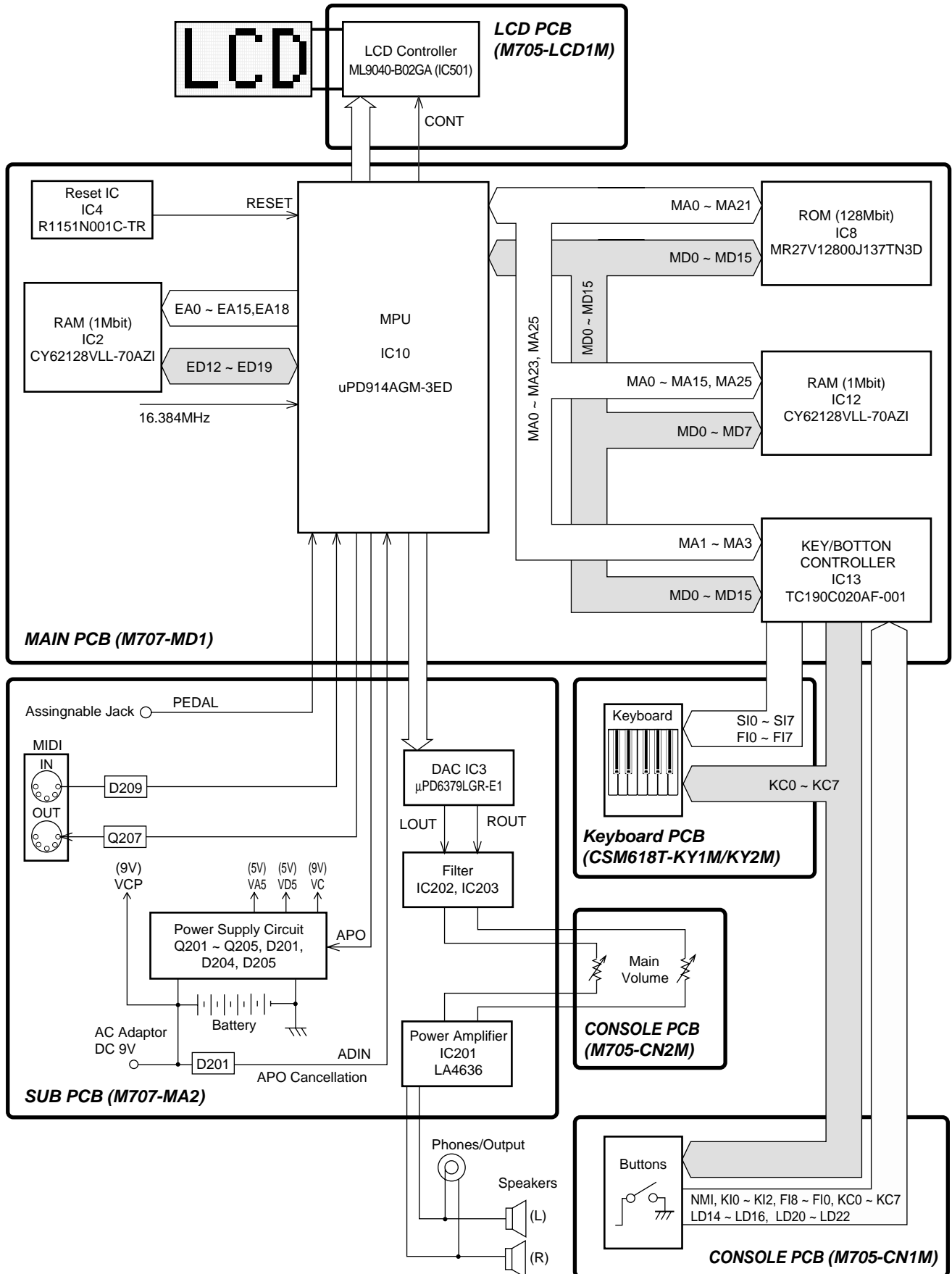
Output level (V_{rms} with 47 Ω load each channel):

with key E1 in 479 OcarinaG

Volume: maximum, Velocity: maximum R Channel: 2200 mV ± 20 %

L Channel: 2400 mV ± 20 %

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

KEY MATRIX

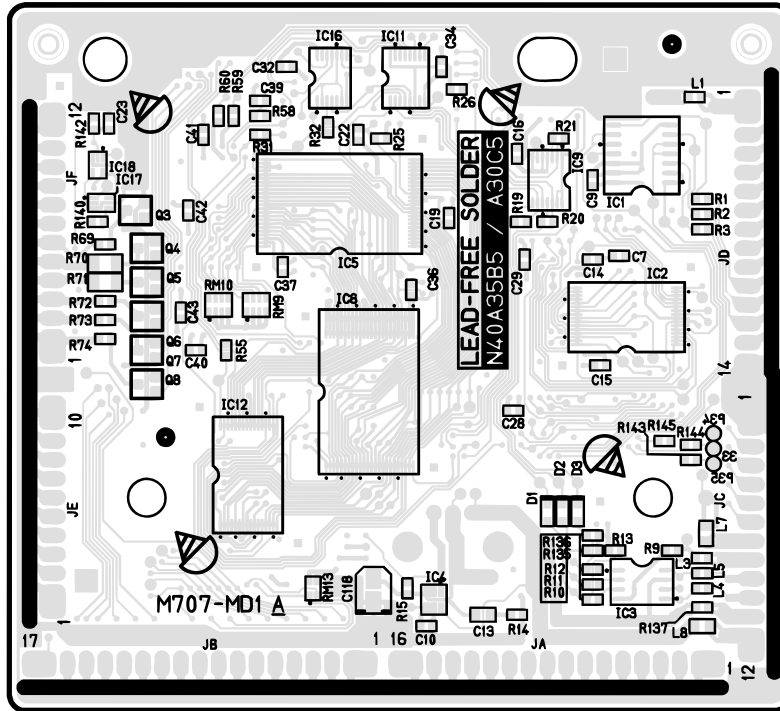
	KC0	KC1	KC2	KC3	KC4	KC5	KC6	KC7
FI0	C2 ①	C#2 ①	D2 ①	D#2 ①	E2 ①	F2 ①	F#2 ①	G2 ①
SI0	C2 ②	C#2 ②	D2 ②	D#2 ②	E2 ②	F2 ②	F#2 ②	G2 ②
FI1	G#2 ①	A2 ①	A#2 ①	B2 ①	C3 ①	C#3 ①	D3 ①	D#3 ①
SI1	G#2 ②	A2 ②	A#2 ②	B2 ②	C3 ②	C#3 ②	D3 ②	D#3 ②
FI2	E3 ①	F3 ①	F#3 ①	G3 ①	G#3 ①	A3 ①	A#3 ①	B3 ①
SI2	E3 ②	F3 ②	F#3 ②	G3 ②	G#3 ②	A3 ②	A#3 ②	B3 ②
FI3	C4 ①	C#4 ①	D4 ①	D#4 ①	E4 ①	F4 ①	F#4 ①	G4 ①
SI3	C4 ②	C#4 ②	D4 ②	D#4 ②	E4 ②	F4 ②	F#4 ②	G4 ②
FI4	G#4 ①	A4 ①	A#4 ①	B4 ①	C5 ①	C#5 ①	D5 ①	D#5 ①
SI4	G#4 ②	A4 ②	A#4 ②	B4 ②	C5 ②	C#5 ②	D5 ②	D#5 ②
FI5	E5 ①	F5 ①	F#5 ①	G5 ①	G#5 ①	A5 ①	A#5 ①	B5 ①
SI5	E5 ②	F5 ②	F#5 ②	G5 ②	G#5 ②	A5 ②	A#5 ②	B5 ②
FI6	C6 ①	C#6 ①	D6 ①	D#6 ①	E6 ①	F6 ①	F#6 ①	G6 ①
SI6	C6 ②	C#6 ②	D6 ②	D#6 ②	E6 ②	F6 ②	F#6 ②	G6 ②
FI7	G#6 ①	A6 ①	A#6 ①	B6 ①	C7 ①			
SI7	G#6 ②	A6 ②	A#6 ②	B6 ②	C7 ②			

BUTTON MATRIX

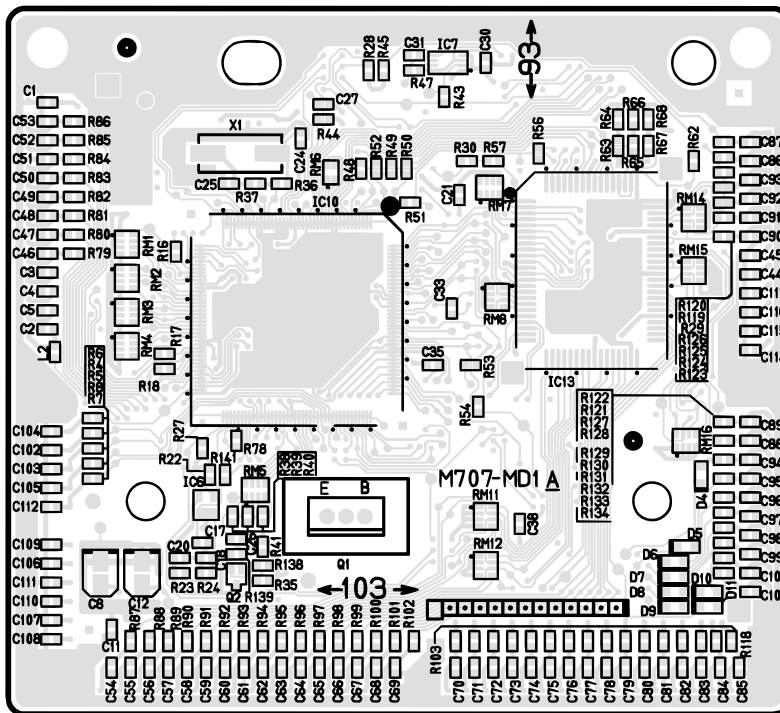
	KC0	KC1	KC2	KC3	KC4	KC5	KC6	KC7
KI0	9	8	DSP ON / OFF	CURSOR ▾	PART EDIT	SEQ	STORE	SYNCR0/ FILL-IN NEXT
KI1	6	0	PIANO SETTING	EXIT	TONE EDIT	ACCOMP VOLUME	INTRO/ ENDING 2	VARIATION/ FILL-IN 2
KI2	3	1	RHYTHM	CURSOR ▷	SETTING	ONE TOUCH PRESET	INTRO/ ENDING 1	VARIATION/ FILL-IN 1
FI8	+	2	CURSOR ◁	7	TEMPO UP	REGISTRATION 1	SPLIT	REGISTRATION 4
FI9	LAYER	—	CURSOR △	4	BANK	TEMPO DOWN	AUTO HARMONIZE	REGISTRATION 3
FI10	DEMO	5	TONE	DRAWBAR	EFFECT EDIT	SMF PLAY	START/STOP	REGISTRATION 2

PRINTED CIRCUIT BOARDS

MAIN PCB M707-MD1

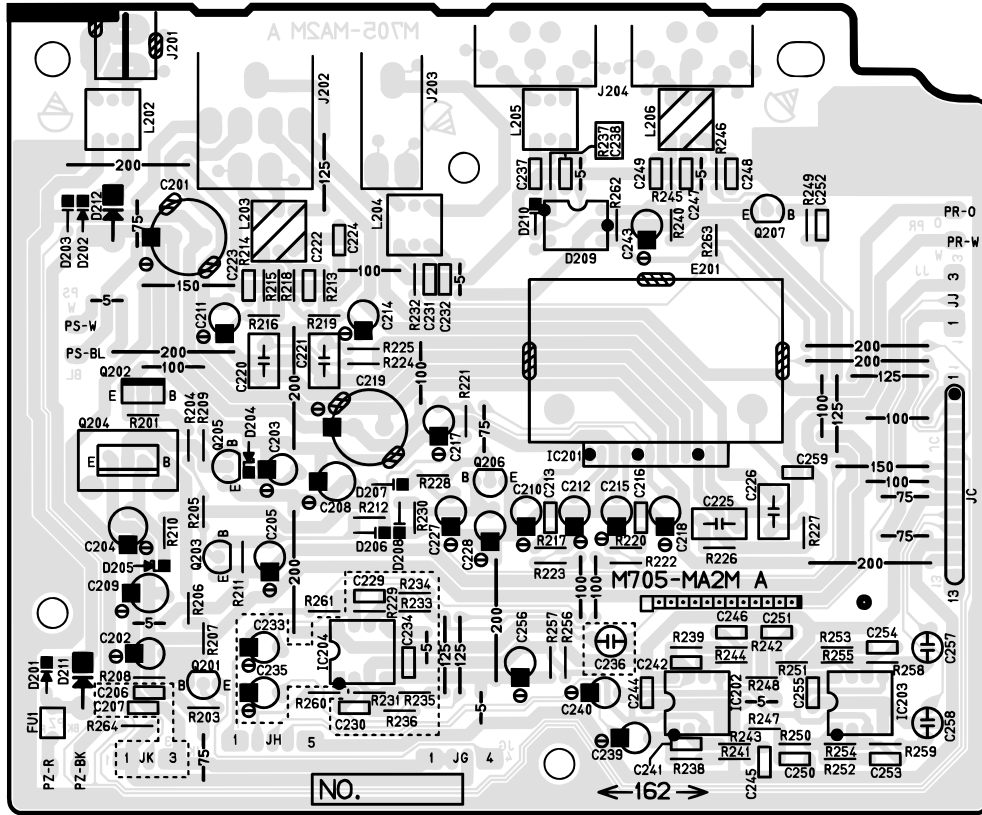


Top View



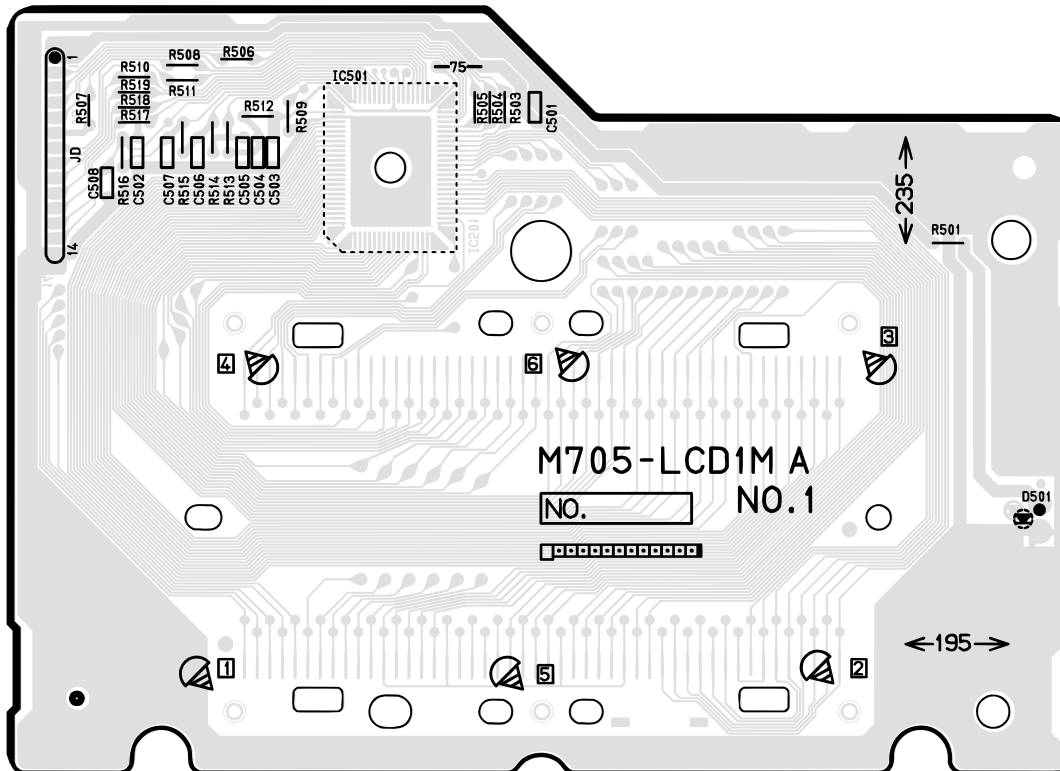
Bottom View

SUB PCB M705-MA2M



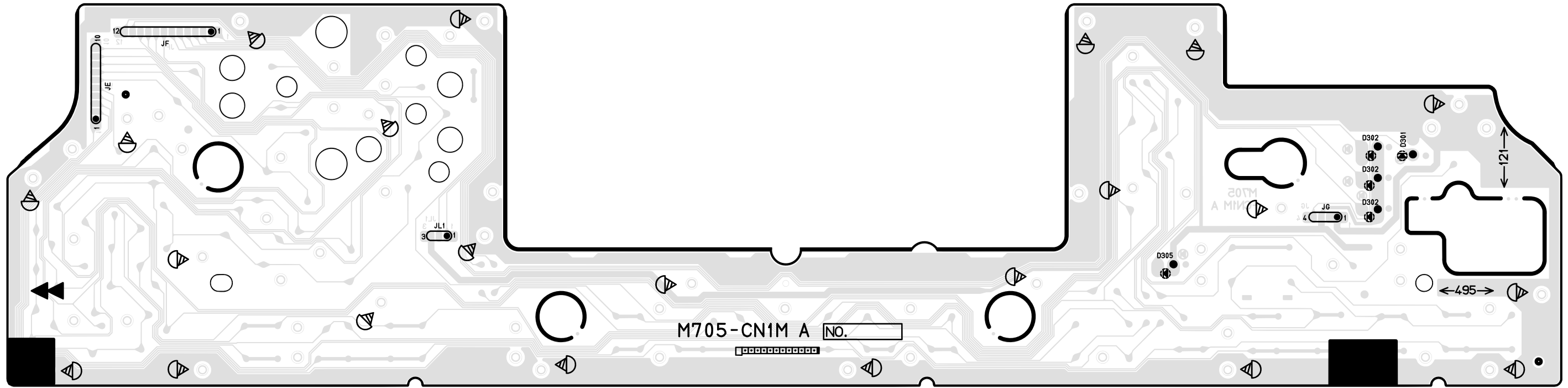
Top View

LCD PCB M705-LCD1M



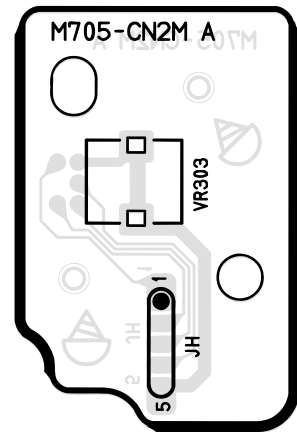
Top View

CONSOLE PCB M705-CN1M



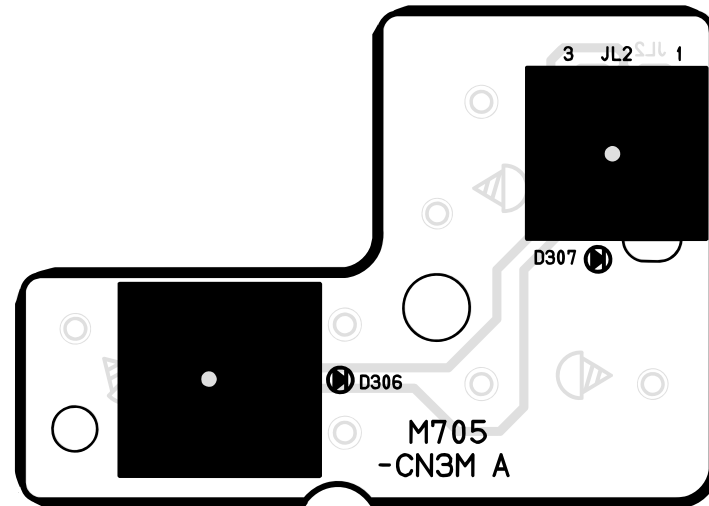
Top View

CONSOLE PCB M705-CN2M



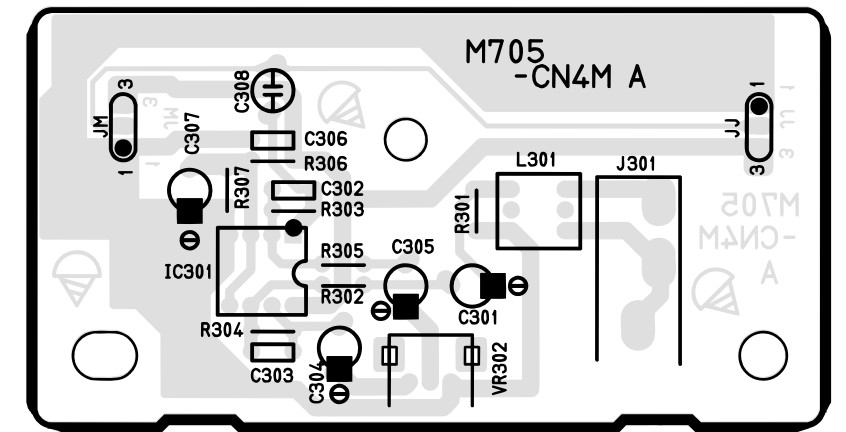
Top View

CONSOLE PCB M705-CN3M



Top View

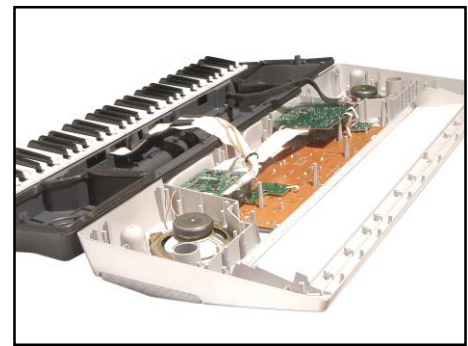
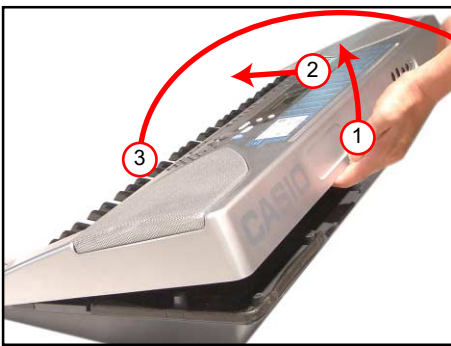
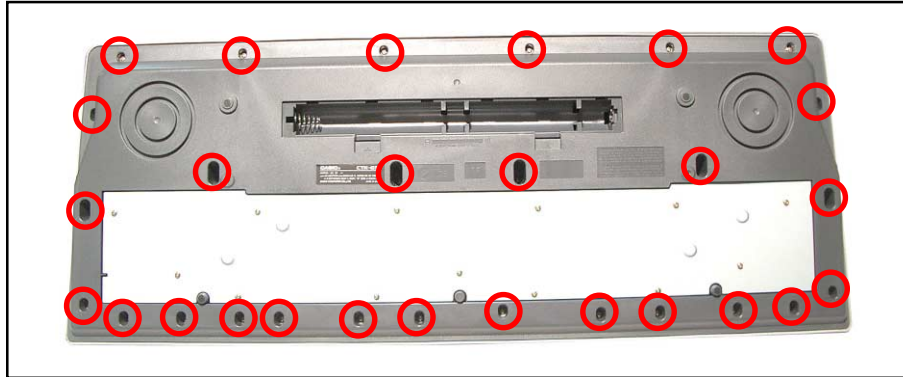
CONSOLE PCB M705-CN4M



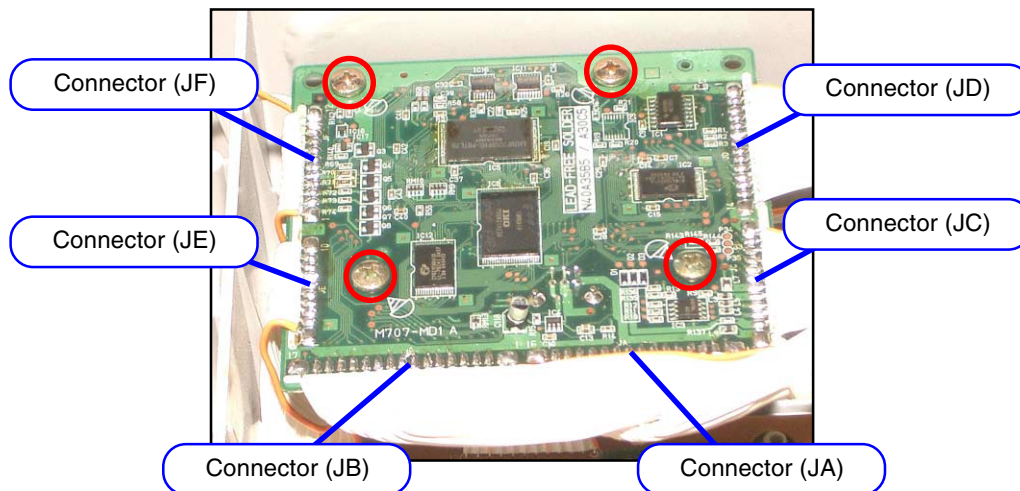
Top View

DISASSEMBLY

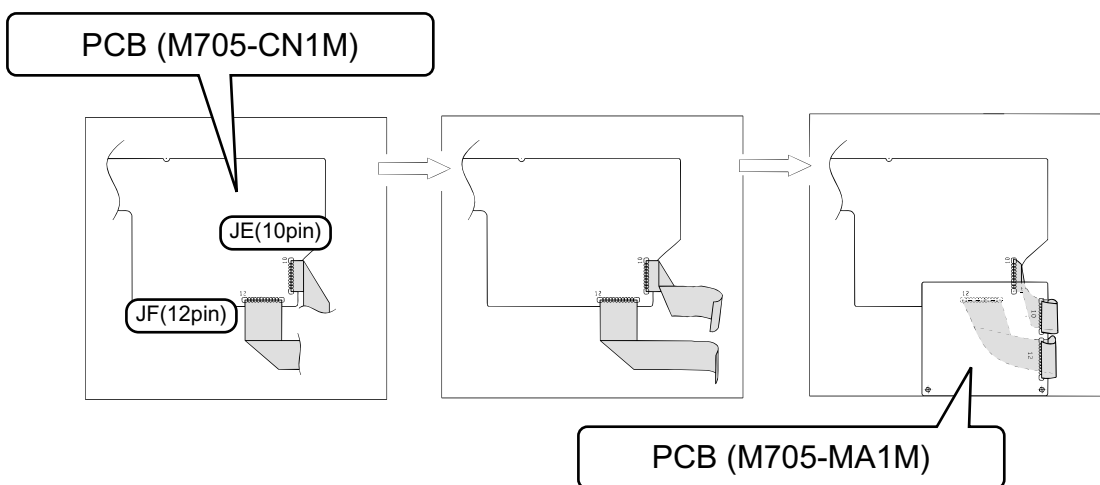
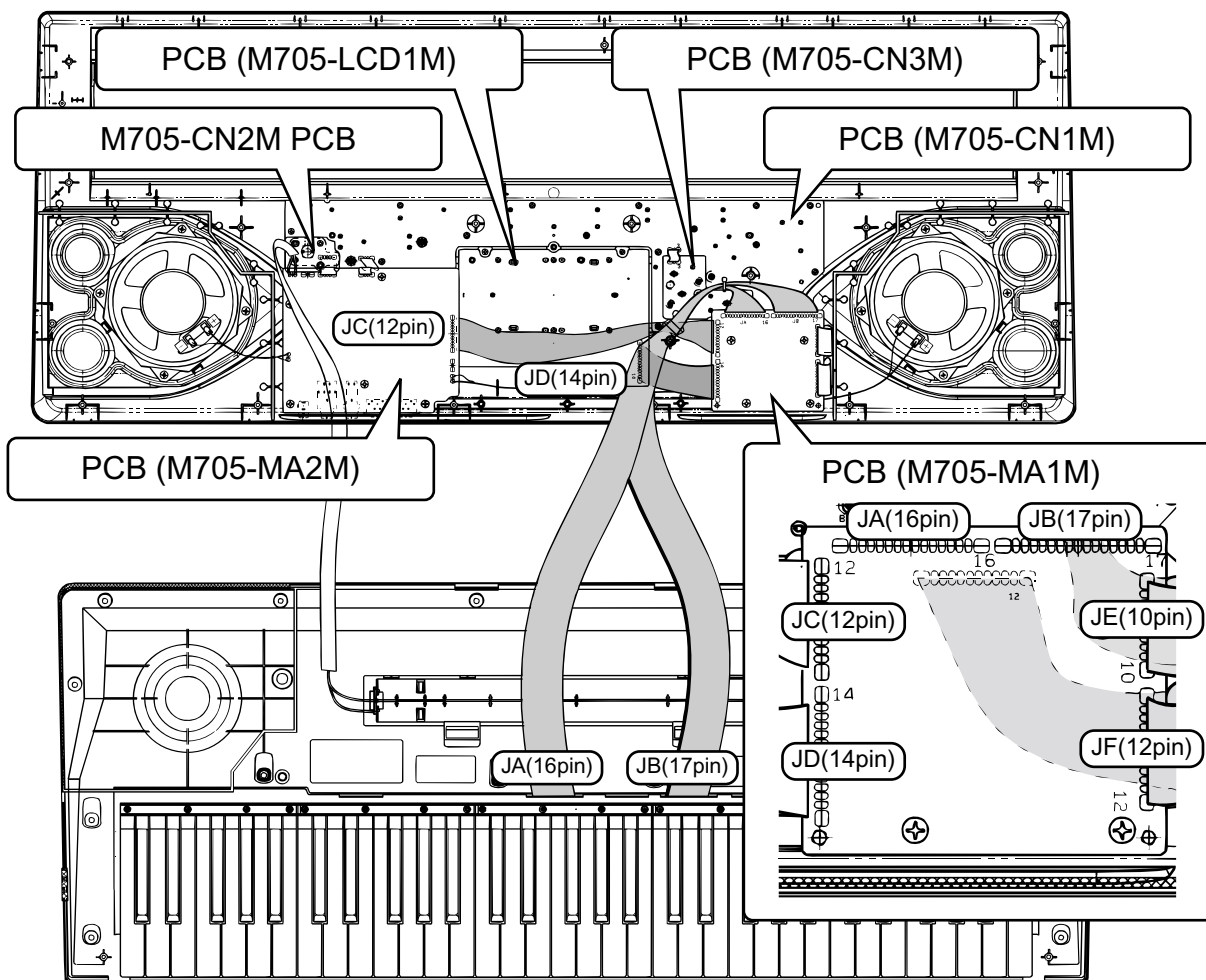
1. Remove the battery cover and then battery.
2. Remove 27 screws and then upper case.



- To remove the main PCB (M707-MD1).
3. Remove six screws on the PCB (M707-MD1).
 4. Remove six connectors by soldering.
 5. Remove the PCB (M707-MD1).

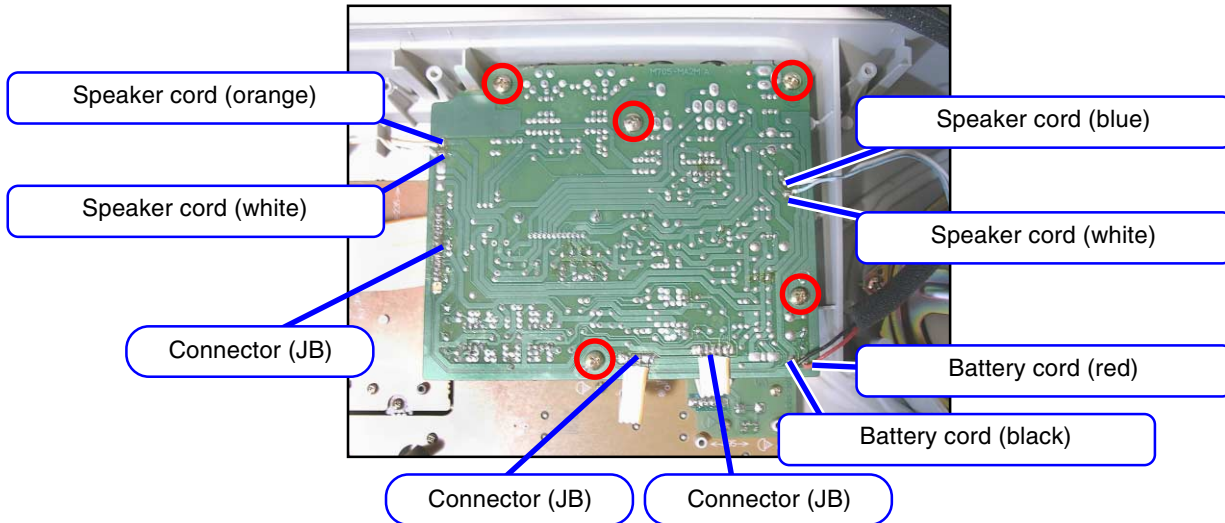


- Precaution while assembling the main PCB (M707-MD1).
Refer to the illustration below because many cables appear.



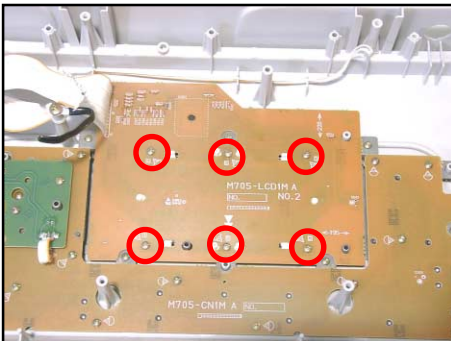
■ To remove the sub PCB (M705-MA2M).

6. Remove five screws on the PCB (M705-MA2M).
7. Remove three connectors on the PCB (M705-MA2M) by soldering.
8. Remove six lead wires on the PCB (M705-MA2M) by soldering.
9. Remove the PCB (M705-MA2M).

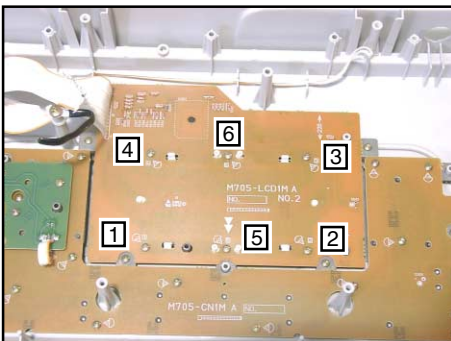


■ To remove LCD PCB (M705-LCD1M).

10. Remove six screws on the PCB (M705-LCD1M).

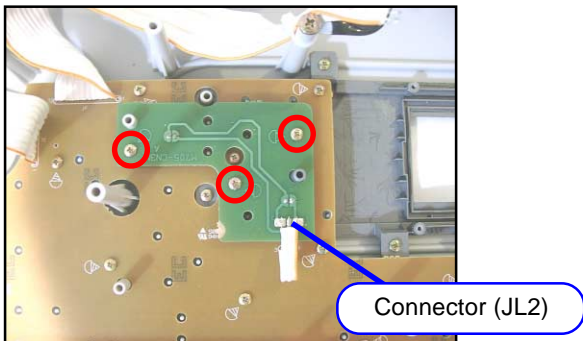


Note: Tighten screws in order 1 to 6 as the figure shown below while reassembling.

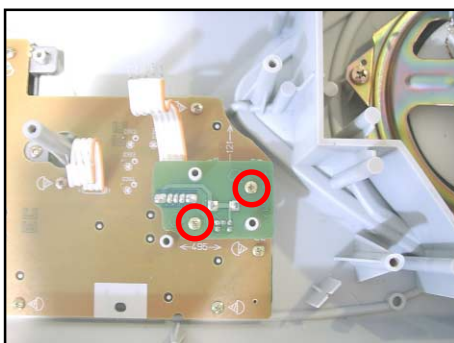


■ To remove the console PCB (M705-CN1M, CN2M, CN3M).

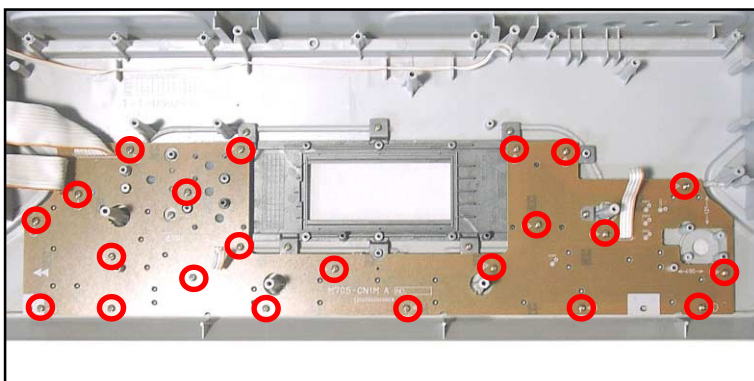
11. Remove three screws on the PCB (M705-CN3M).
12. Remove the connector on the PCB (M705-CN3M) by soldering.
13. Remove the PCB (M705-CN3M).



14. Remove two screws on the PCB (M705-CN2M).
15. Remove the volume knob.
16. Remove the PCB (M705-CN2M).

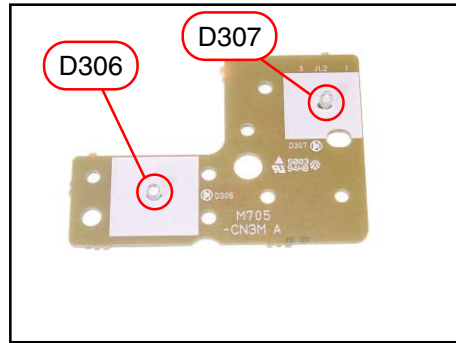
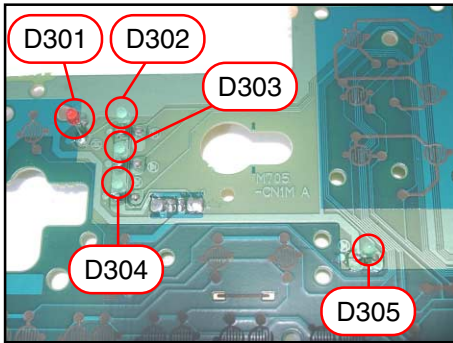


17. Remove 22 screws and then the PCB (M705-CN1M).

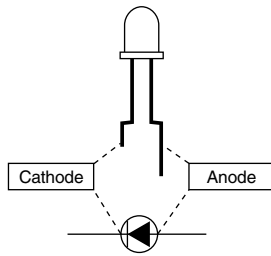


■ To replace LED.

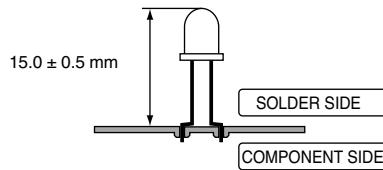
Note: Fix the LED (D301, D302, D303, D304, D305, D306) to the PCB according to the height as shown in the figure below while paying attention to the polarity.
Refer to the illustration on the PCB for the details of the polarity.



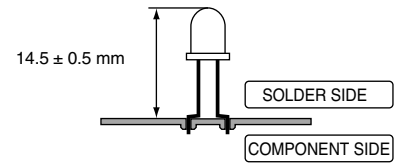
Note: Mount LED on the PCB. (solder side).
Correct polarity and height as follows.



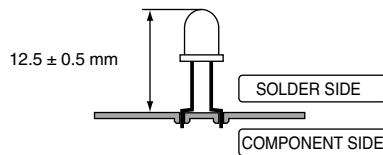
■ D301, D302



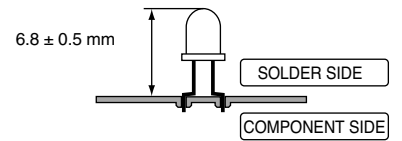
■ D303, D304



■ D305

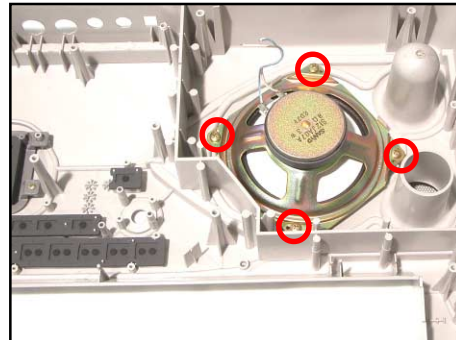
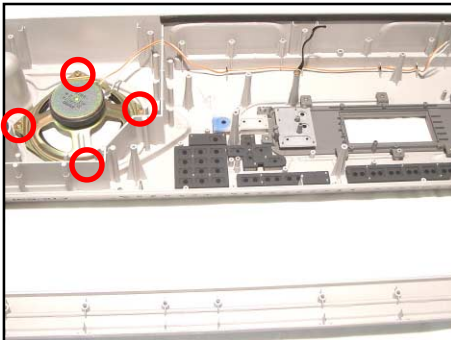


■ D306, D307

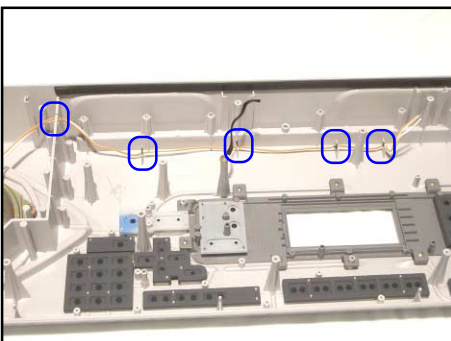


■ To remove the speaker.

18. Remove 8 screws and then two speakers.

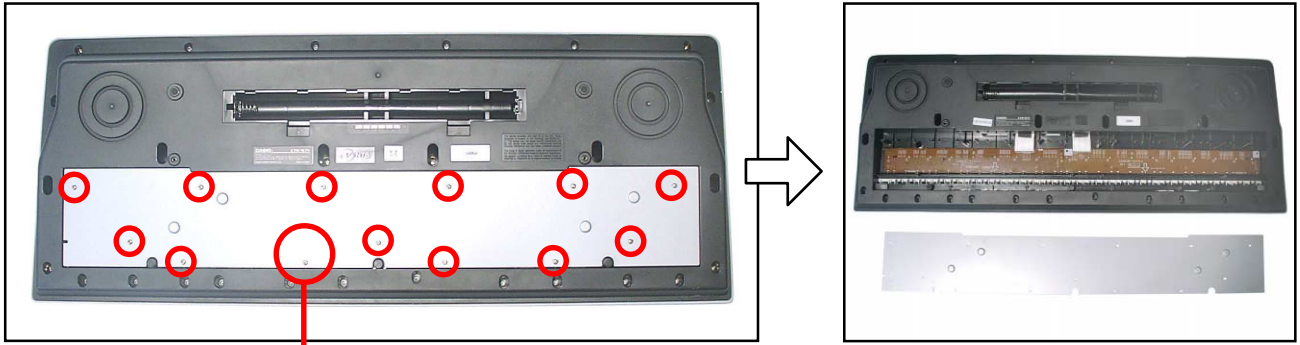


Note: Fix speaker cords securely.



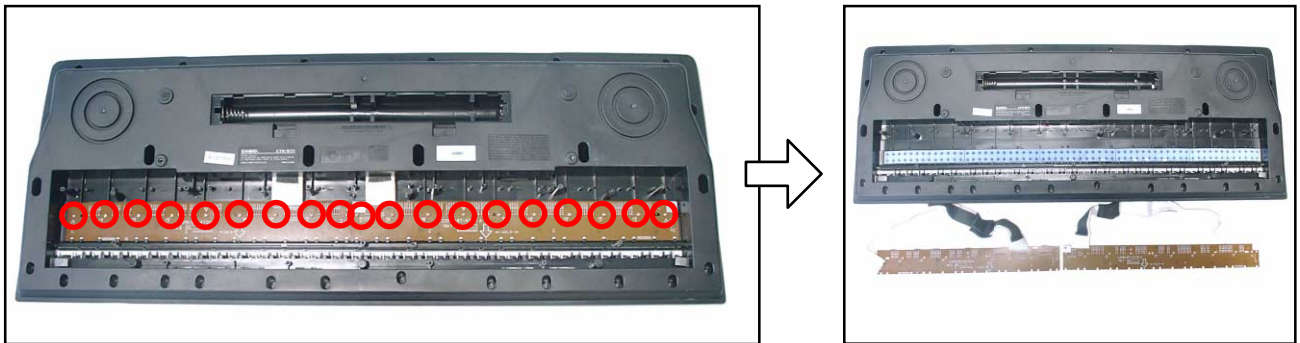
■ To remove the key PCB (CSM618T-KY1M, KY2M)

19. Remove 13 screws and the bottom case.

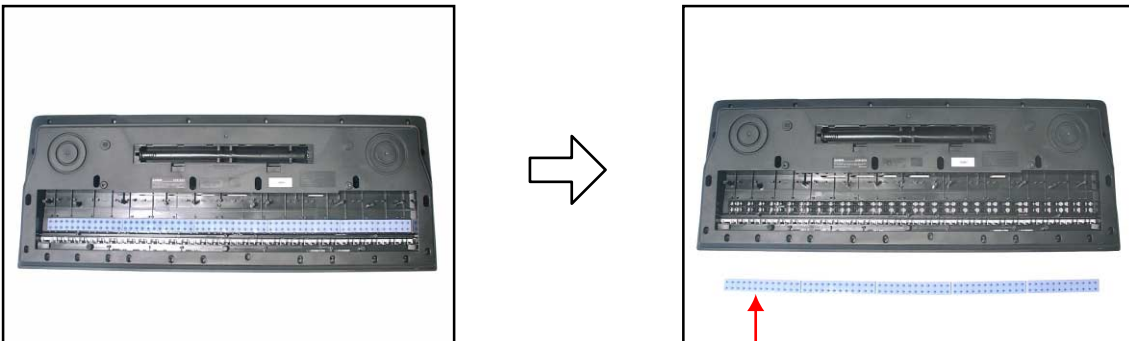


Note: Tighten the screw with the arrow mark in the figure first when reassembling.

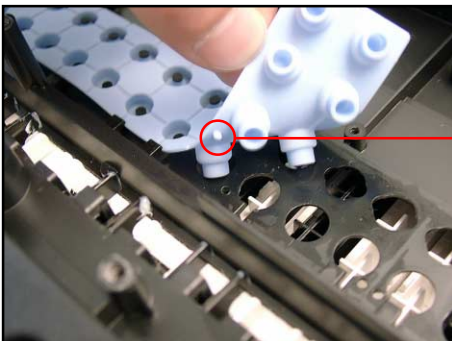
20. Remove 19 screws and then the key PCB (CSM618T-KY1M, KY2M).



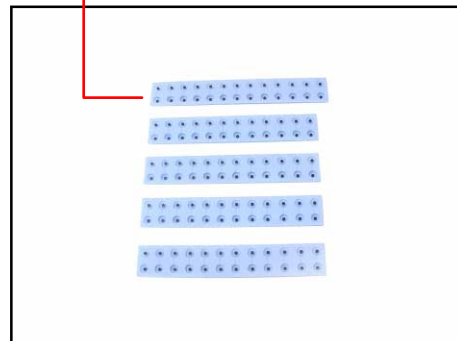
21. Remove the rubber keys.



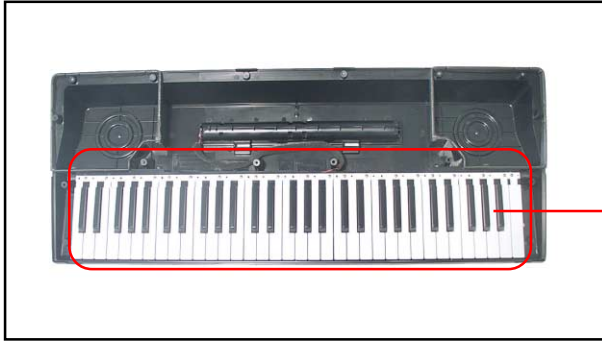
Note: Pay attention to the positions of the rubber keys as one of them has a different length. Match the projections of the rubber keys with the holes of the lower case when reassembling.



Projection

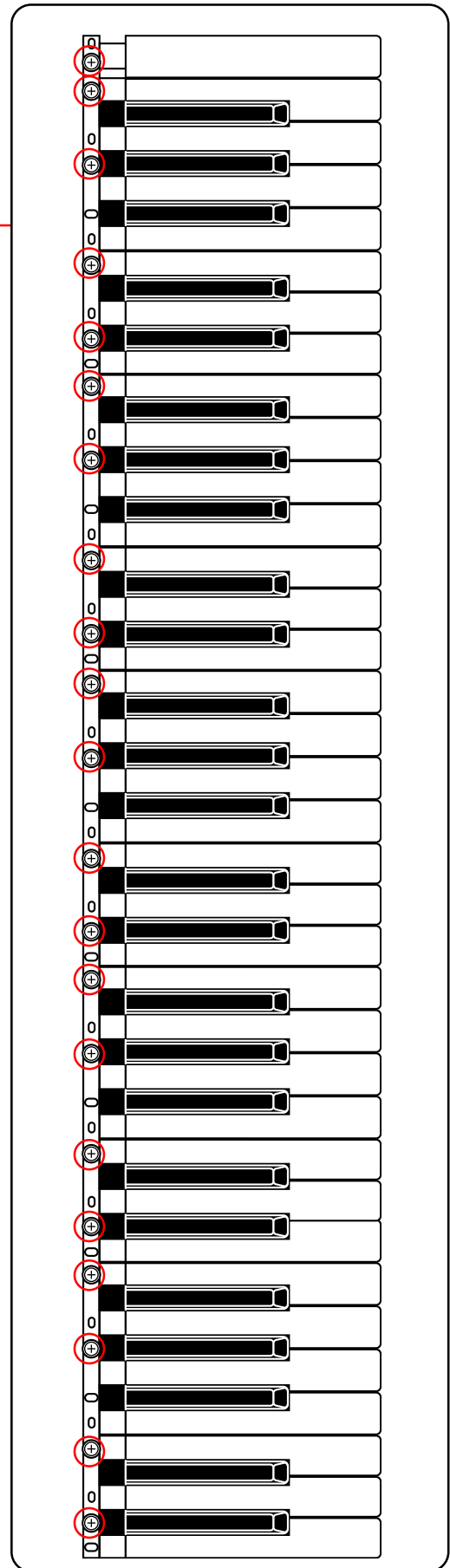


22. Remove 22 screws and then the white keys.



Note: Pay attention to the positions of the screw holes when reassembling.

23. Remove the black keys.



DIAGNOSTIC PROGRAM

Initial Setup

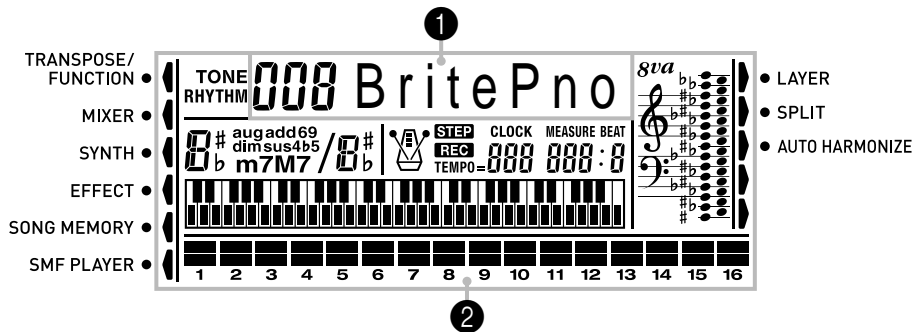
1. Connect an AC adaptor.
2. Connect a Sustain pedal.
3. "Main" volume: MAX.

NOTE: If there is no pedal or MIDI cable, pedal or MIDI check can be skipped.

How to start diagnostic program

1. Press the "POWER" button while pressing the "Cursor key Up" and "Cursor key Down" buttons.
2. Release the "POWER" button first while still pressing the "Cursor key UP" and "Cursor key Down" buttons. After "008 BritePno" appears, release the "Cursor key UP" and "Cursor key Down" buttons. "TEST 707" appears on the LCD.

NOTE: Refer to the figure below for the LCD messages that appear during the diagnostic program.



Diagnostic program

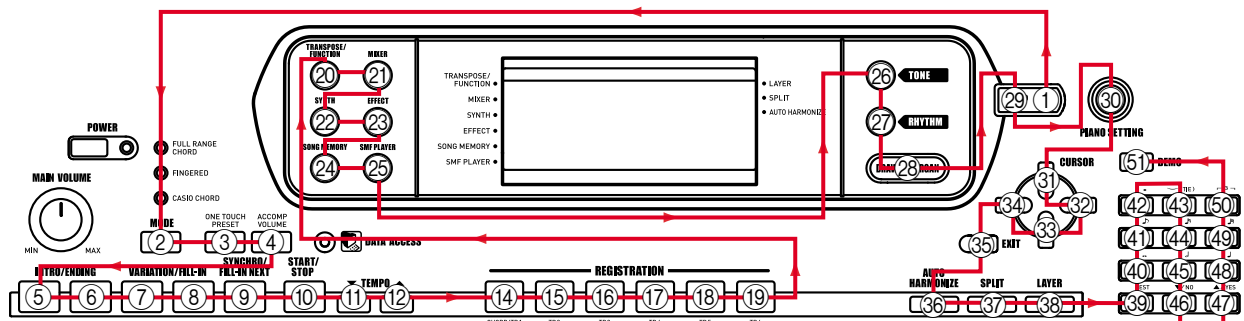
1. Button check

- 1 Press "DSP" button. Display indicates 1 "MODE".
- 2 Press buttons in the following order.

NOTE: NG sound sounds when a button is defective or buttons are pressed in a wrong order.

LCD message appears in the area 1

Message on LCD	Message on LCD	Message on LCD	Message on LCD
1 MODE	13 REGISTRATION 1	25 RHYTHM	DRAWBAR 37 0 button
2 ONE TOUCH PRESET	14 REGISTRATION 2	26 DRAWBAR ORGAN	DSP 38 1 button
3 ACCOMP VOLUME	15 REGISTRATION 3	27 DSP	PIANO 39 4 button
4 INTRO/ENDING 1	16 REGISTRATION 4	28 PIANO SETTING	UP 40 7 button
5 INTRO/ENDING 2	17 STORE	29 Cursor key Up	RIGHT 41 8 button
6 VARIATION/FILL-IN 1	18 TRANSPOSE/FUNCTION	MIXER 30 Cursor key Right	DOWN 42 5 button
7 VARIATION/FILL-IN 2	19 MIXER	SYNTH 31 Cursor key Down	LEFT 43 2 button
8 SYNCHRO/FILL-IN NEXT	20 SYNTH	EFFECT 32 Cursor key Left	EXIT 44 - button
9 START/STOP	21 EFFECT	SONG 33 EXIT	HARMO 45 + button
10 TEMPO ▼	22 SONG MEMORY	SMF 34 AUTO HARMONIZE	SPLIT 46 3 button
11 TEMPO ▲	BANK 23 SMF PLAYER	TONE 35 SPLIT	LAYER 47 6 button
12 BANK	REGIST 1 24 TONE	RHYTHM 36 LAYER	0 48 9 button
			49 DEMO
			SW OK



2. AC adaptor detection check.

- ① Press "TONE" button.
- ② When the instrument detects that an AC adaptor is plugged in, an OK sound sounds. "ACJ OFF" appears and an NG sound sounds when the AC adaptor is not plugged (when batteries are used).

Message on LCD

- ① ACJ ON

3. Sustain jack check. (If no pedal, this check can be skipped)

- ① Press "RHYTHM" button.
- ② Press "Sustain pedal" .
- ③ Release "Sustain pedal" .
- ④ NG sound, "OFF" sound this case, must be audible.

- ① SUS CHK
- ① SUS ON
- ① US OFF

4. Low Voltage detection check.

- ① Press "DRAWBAR ORGAN" button.
- ② OK sound must be audible.

- ① VOLT HI

5. MIDI IN/OUT check (If there is no MIDI cable, this check can be skipped)

- ① Connect MIDI IN and MIDI OUT terminals with a MIDI cable.
- ② Press "3" button.
- ③ Disconnect the MIDI cable.

- ① MIDI OK

6. ROM check

- ① Press "INTRO/ENDING1" button.
- ② OK sound must be audible after about a few seconds.

- ④ ROM CHK
- ↓
- ① ROM OK

7. Flash memory bus check

- ① Press "INTRO/ENDING2" button.
- ② OK sound must be audible after about a few seconds.

- ① FMB CHK
- ↓
- ① FMB OK

8. DSP RAM check

- ① Press "VARIATION/FILL-IN 2" button

- ① DRAM OK

9. CPU RAM check

- ① Press "SYNCHRO/FILL-IN NEXT" button.

- ① CRAM OK

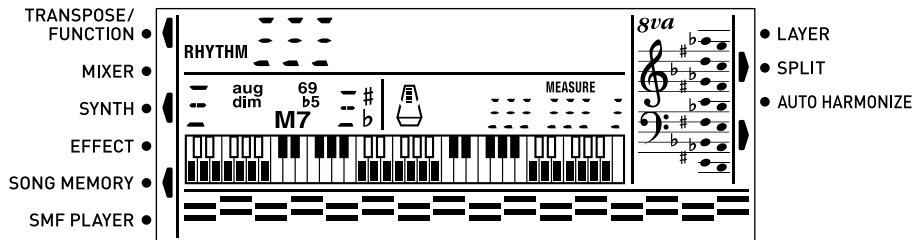
10. LED check

- ① Press "TEMPO▼" button.
- ② LEDs illuminate in the following order.
 - a . FULL RANGE CHORD
 - b . FINGERED
 - c . CASIO CHORD
 - d . DATA ACCESS
 - e . DRAWBAR ORGAN
 - f . DSP

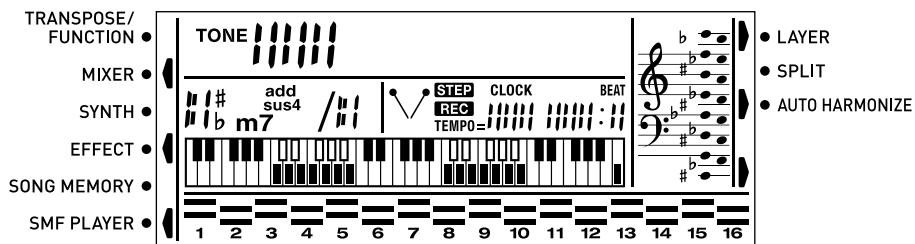
- ① LED CHK
- ↓
- ↓
- ↓
- ↓
- ↓
- ↓
- ↓
- ① LED END

11. LCD check

- ① Press "TEMPO▲" button.
- ② Turn on all segments of the LCD.
- ③ Press "BANK" button.
- ④ The area ❶ turns as check pattern.
- ⑤ Press "REGISTRATION 1" button.
- ⑥ The area ❶ turns as check pattern.
- ⑦ Press "REGISTRATION 2" button.
- ⑧ Half of characters in all areas turn on.



- ⑨ Press "REGISTRATION 3" button.
- ⑩ Rest of above characters turn on.



- ⑪ Press "REGISTRATION 4" button.
- ⑫ Each characters turn in order.
There no lack of dots and characters

12. TUNE check (If no TUNING METER, this check can be skipped)

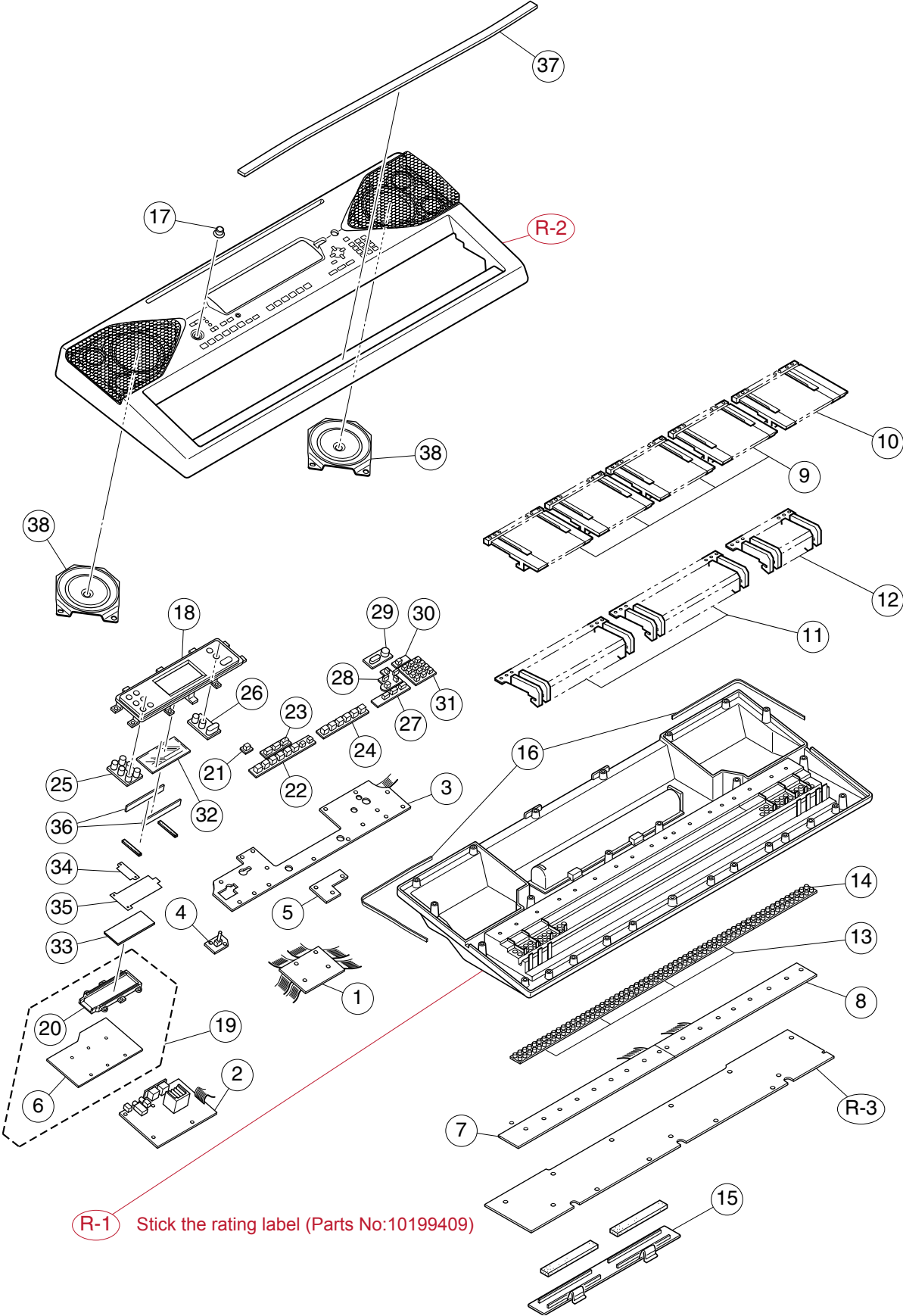
- ① Connect the TUNING METER to the phone jack.
- ② Press "8" button.
- ③ The TUNING METER must indicate "C".
- ④ Disconnect the TUNING METER from the phone jack.

13. APO check

- ① Press "EXIT" button.
 - * Go out from TEST mode (Power off).
 - * The keyboard turns off after about 2 seconds.
 - * The LCD turns off.

DIAGNOSTIC PROGRAM IS FINISHED.

EXPLODED VIEW



PARTS LIST

CTK-900

Notes: This parts list does not include the cosmetic parts, which parts are marked with item No. "R-X" in the exploded view.

Contact our spare parts department if you need these parts for refurbish.

1. Prices and specifications are subject to change without prior notice.
2. As for spare parts order and supply, refer to the "GUIDEBOOK for Spare parts Supply", published seperately.
3. The numbers in item column correspond to the same numbers in drawing.

N	Item	Code No.	Part Name	Specification	QTY	Price Code	R	Remark
Main PCB								
N	1	10200663	PCB ASSY/MAIN	TK-RJM505695*001	1		A	
N	IC1	10122996	IC	TC74HCT08AF(EL)	1	AB	C	
	IC10	10054502	LSI	UPD914AGM-3ED	1	CK	B	
N	IC11	10197798	IC	TC74LCX138FT(EL.K)	1	AF	C	
	IC13	20125987	LSI	TC190C020AF-001	1	BC	B	
N	IC16	10197797	IC	TC74LCX00FT(EL.K)	1	AB	C	
N	IC2,12	10164063	LSI	CY62128DV30LL70ZAI	2		B	
	IC3	20125495	IC	UPD6379LGR-E1	1	AO	C	
N	IC4	10175415	IC	R1151N001C-TR-FB	1		C	
N	IC6	10197796	IC	TA75S393F(TE85L.F)	1	AC	C	
N	IC7	10197809	IC	TC7WH123FU(TE12L.F)	1	AF	C	
N	IC8	10197515	LSI	MR27V12800J137TN08	1		B	
	D1-D11	23901820	DIODE	1SS355TE-17	11	AA	C	
	Q1	22510672	TRANSISTOR	2SB1548-P,CS	1	AD	C	
	Q2	69300298	TRANSISTOR	2SC4081T106R	1	AA	C	
N	Q3-8	22501204	TRANSISTOR	DTC143ZKAT146	6	AA	C	
	L7,8	10122963	FUSE CHIP	BLM21AG102SN1D	2	AA	C	
	L1-5	10095204	FUSE CHIP	BLM18AG102SN1D	5	AA	C	
	X1	10059360	OSCILLATOR/CRYSTAL	SMD-49-16.384M	1	AI	C	
Sub PCB								
	2	10123433	PCB ASSY/MA2M	TK-RJM502976*001	1	CL	A	
	IC201	10062671	IC	LA4636	1	AV	B	
	IC202,203	21210072	IC	NJM2068DD	2	AD	B	
	D201,202	23903021	DIODE	SRT14	2	AF	C	
	D203,207, 208,210	23153132	DIODE	1SS133T-77	4	AA	C	
	D204	10038115	DIODE	MTZJT-775.6B	1	AA	C	
	D205	10025044	DIODE	MTZJT-776.2A	1	AA	C	
	D209	21141421	IC/PHOTO COUPLER	PC900V	1	AK	C	
	Q201,203, 205,-207	22501627	TRANSISTOR	2SC1740STPS	5	AA	C	
	Q202	22501591	TRANSISTOR	2SB1237TV2R	1	AB	C	
	Q204	10047397	TRANSISTOR	2SD1913S	1	AD	C	
	J201	19150373	JACK	HEC2305-01-330	1	AB	C	
	J202	36120665	JACK/PHONE	JYB21-5006	1	AG	C	
	J203	36120789	JACK	YKB21-5010	1	AC	C	
	J204	35014816	JACK/DIN	YKF51-5051	1	AH	C	
	L202,204,205	10056228	COIL	R2318-RB53-856397	3	AB	C	
	L203,206	10057360	COIL	R2318-RB53-856396	2	BB	C	
Console PCBs								
	3	10123429	PCB ASSY/CN1M	TK-RJM502971*001	1	AZ	B	
	4	10123430	PCB ASSY/CN2M	TK-RJM502972*001	1	BA	B	
	5	10123431	PCB ASSY/CN3M	TK-RJM502973*001	1	BE	B	
	D301	10104646	LED	1154HD-B5/10-90	1	AA	C	CN1M
	D302	10122221	LED	1154GD-B5/10-90	1	AA	C	CN1M
	D303	10122220	LED	1154GD-B5/9.5-90	1	AA	C	CN1M
	D304	10122219	LED	1154GD-B5/9-90	1	AD	C	CN1M
	D305	10122218	LED	1154GD-B5/7.5-90	1	AA	C	CN1M
	D306,307	10116376	LED	SLR343BBT3F	2	AJ	C	CN3M
	VR303	10122556	VAERIALBLE R	RK09K12C0D1A	1	AL	C	CN2M

Notes : Q- Quantity per unit

R- Rank

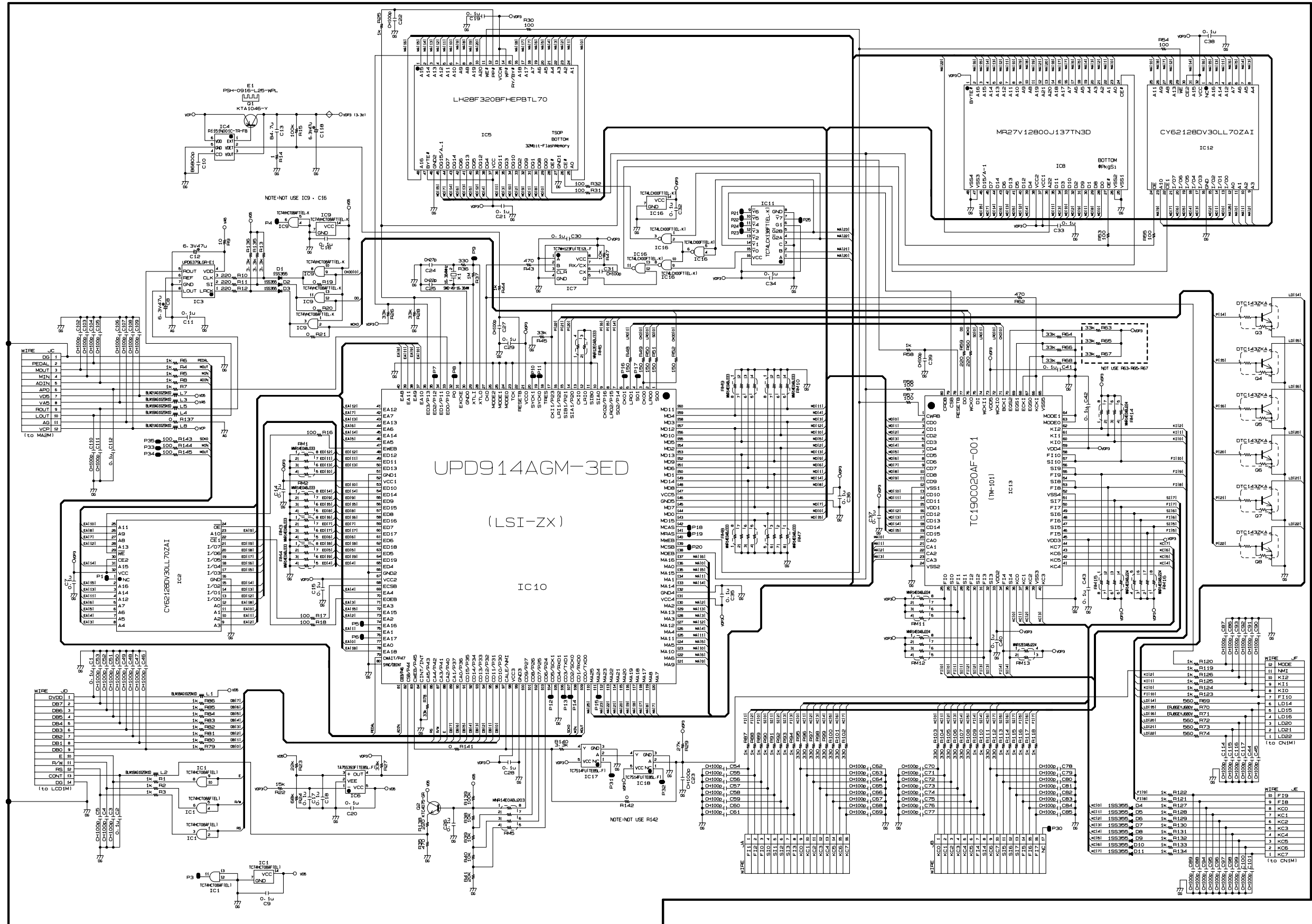
N	Item	Code No.	Part Name	Specification	QTY	Price Code	R	Remark
LCD PCB								
	6	10123434	PCB ASSY/LCD1M	TK-RJM502998*001	1	BE	C	
	IC501	10006502	LSI	ML9040-B02GA	1	AU	C	
Keyboard PCBs								
	7	10053891	PCB ASSY/KY1M	M140687*9	1	BK	B	
	D501-564	23010101	DIODE	1S2473T-77-T	64	AA	C	
	8	10053893	PCB ASSY/KY2M	M140688*9	1	BJ	B	
	D565-622	23010101	DIODE	1S2473T-77-T	58	AA	C	
Keyboard Unit								
	9	69222720	KEY SET/LT WHITE	M312118*1	4	AP	B	
	10	69222730	KEY SET/LT WHITE	M312118*2	1	AR	B	
	11	69068481	KEY SET/LT BLACK 10P	M140369A-3	2	AS	B	
	12	69068591	KEY SET/LT BLACK 5P	M140369A-4	1	AF	B	
	13	69222762	RUBBER/KEY	M211704B-1	4	AF	C	
	14	69222772	RUBBER/KEY	M211705B-1	1	AF	C	
Panel Unit								
N	15	10200658	COVER ASSY/BATTERY	TK-M341235*008	1		C	
	16	69273030	PACKING	M440775-1	2	AA	C	
N	17	10197646	KNOB/ROTARY	RJM502503-010V01	1		C	
N	18	10199383	PANEL/DISPLAY	RJM502491-002V01	1		C	
	19	10123897	BL ASSY	TK-RJM502643*001	1	AA	C	
	20	10116367	REFLECTOR	RJM502392-001V01	1	AC	C	
N	21	10199384	RUBBER/KEY/A	RJM502492-002V01	1		C	
N	22	10199385	RUBBER/KEY/B	RJM502493-002V01	1		C	
N	23	10199386	RUBBER/KEY/C	RJM502494-002V01	1		C	
N	24	10199387	RUBBER/KEY/D	RJM502495-002V01	1		C	
N	25	10199388	RUBBER/KEY/E	RJM502496-002V01	1		C	
N	26	10199389	RUBBER/KEY/F	RJM502497-002V01	1		C	
N	27	10199390	RUBBER/KEY/G	RJM502498-002V01	1		C	
N	28	10199391	RUBBER/KEY/H	RJM502499-002V01	1		C	
N	29	10199392	RUBBER/KEY/J	RJM502500-002V01	1		C	
N	30	10199393	RUBBER/KEY/K	RJM502501-002V01	1		C	
N	31	10199394	RUBBER/KEY/L	RJM502502-002V01	1		C	
	32	10128521	LCD	TR8262N	1	AB	C	
	33	10116369	PLATE/BACK LIGHT	RJM502395-001V01	1	AJ	C	
	34	10081190	PIECE/TOP	RJM501982-001V01	1	AA	C	
	35	10081189	FILM	RJM501963-001V01	1	AA	C	
	36	10111048	CONNECTOR	RJM502397-001V01	2	AE	C	
	37	69224480	STOPPER	M412324-1	1	AE	C	
	38	10127636	SPEAKER	S12JA07A	2	BB	C	
Accessory								
N	-	10107083	STAND/MUSIC	M141071-5	1	AW	C	
N	-	69321739	BATTERY	R20PNR/2SK	3		C	For DI
N	-	10197752	CD ROM	IDES40CDROMWL1A	1		C	
N	-	10199409	LABEL/RATING	M341007-050V01	1		X	
Refurbish								
N	R-1	10200661	CASE ASSY/MIDDLE	TK-M141274*016	1		C	
N	R-2	10200664	PANEL ASSY	TK-RJM502642*002	1		C	
	R-3	69069252	PLATE/BOTTOM	M240573-2	1	AS	C	

Notes : Q- Quantity per unit

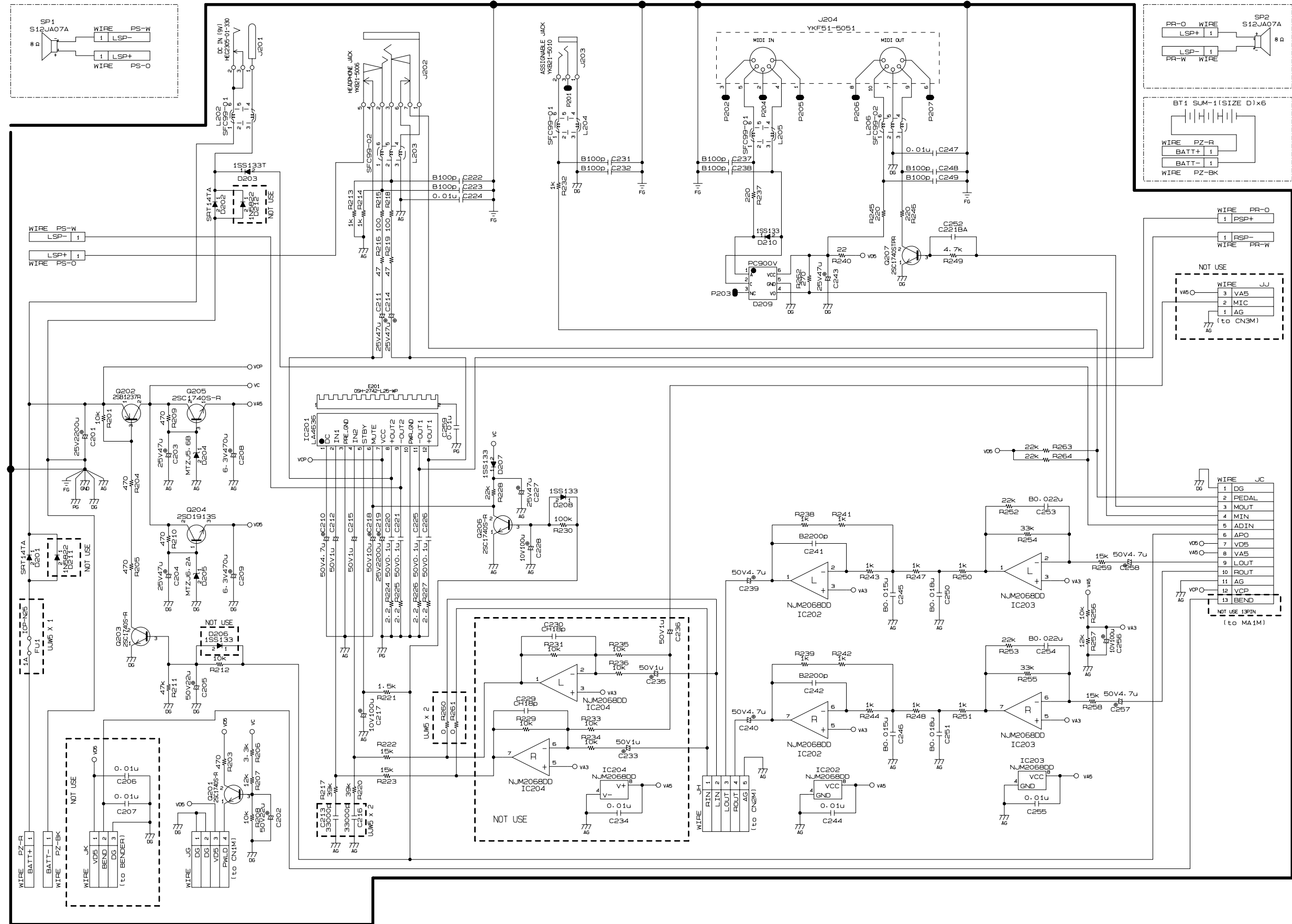
R- Rank

SCHEMATIC DIAGRAMS

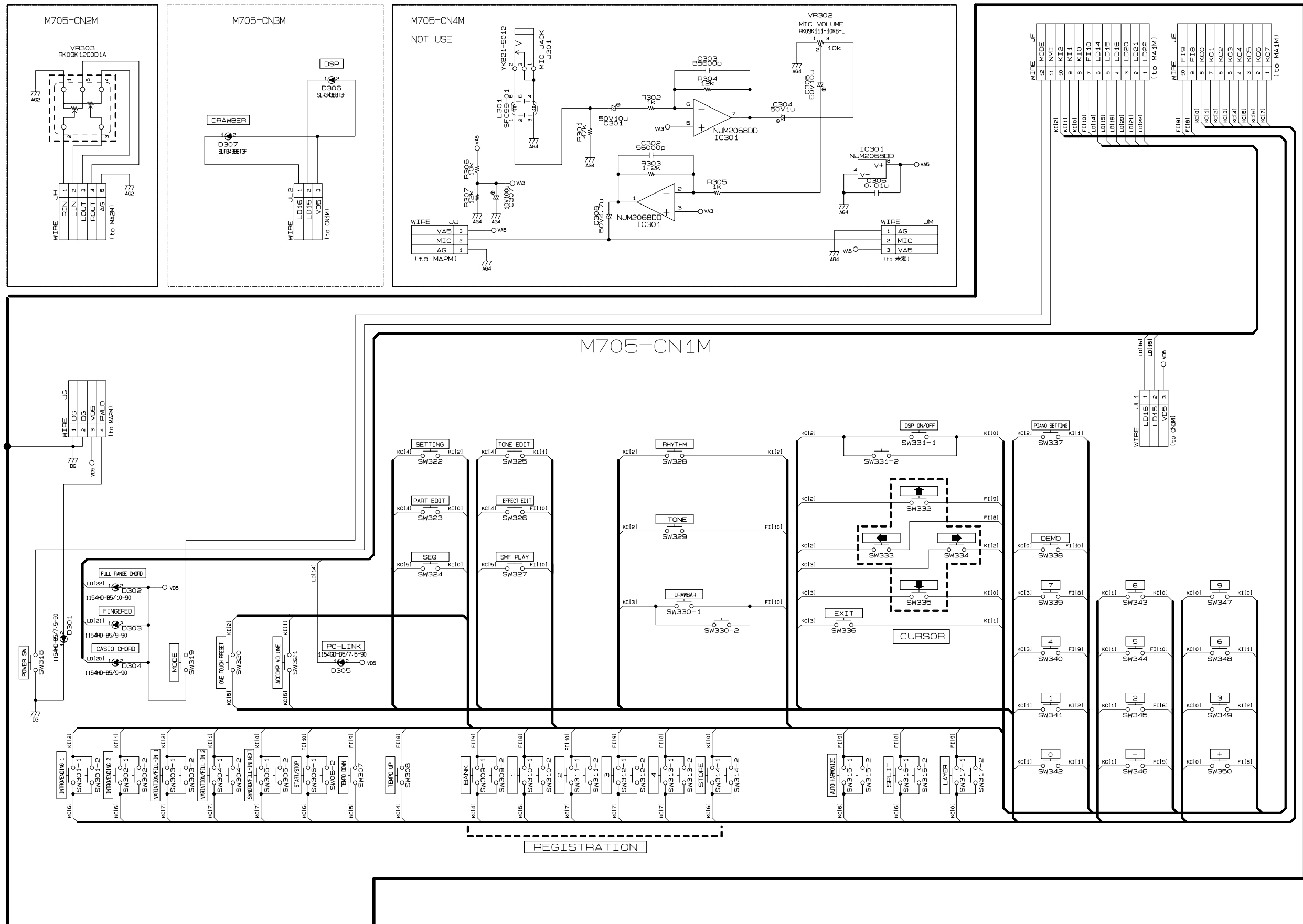
MAIN PCB M707-MD1



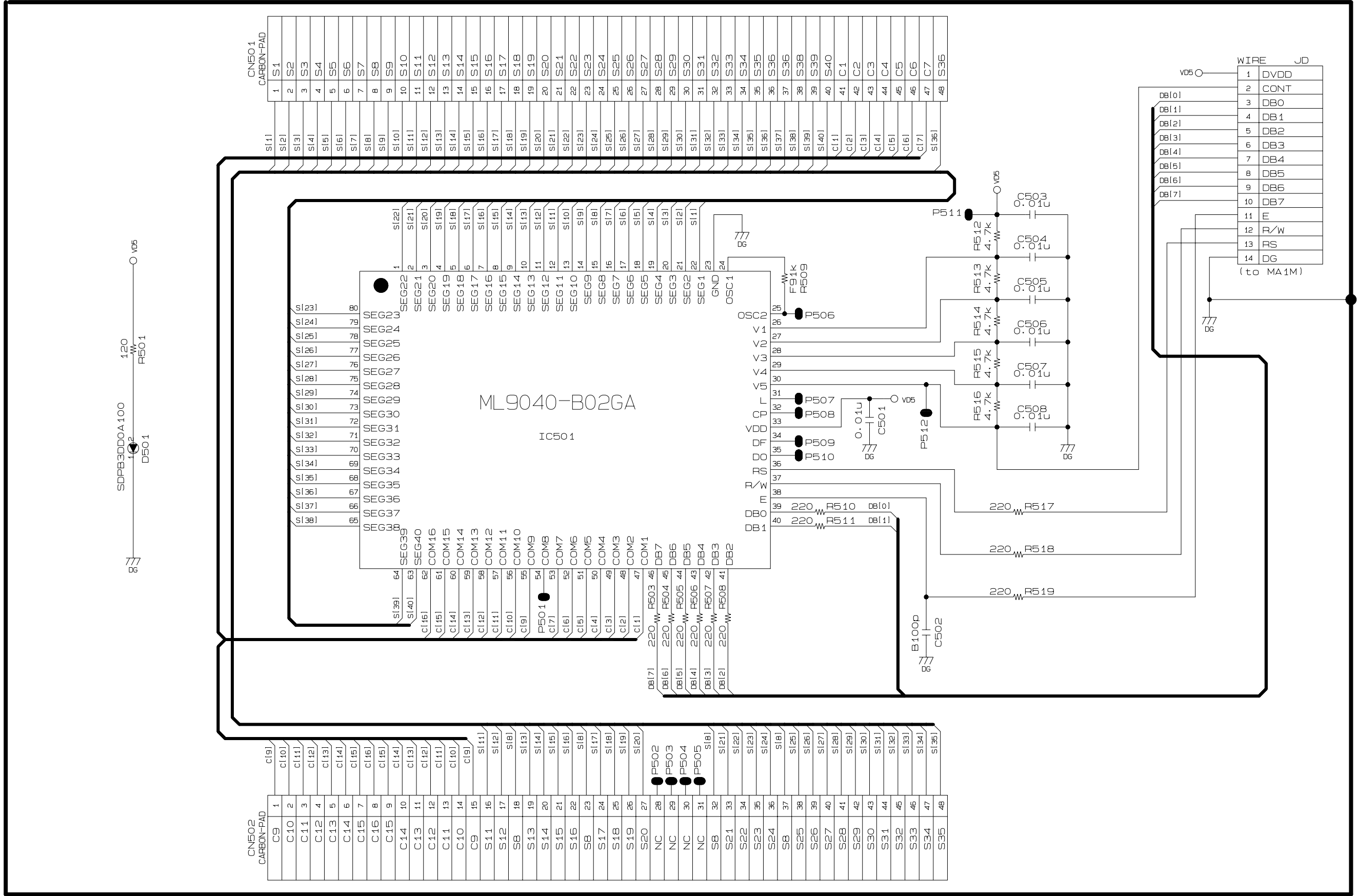
SUB PCB M705-MA2M



CONSOLE PCB M705-CN1M/CN2M/CN3M/CN4M



LCD PCB M705-LCD1M



Ver.1 : July. 2005

- Replacement of the PARTS LIST (P20, 21)

Ver.2 : Nov. 2007

- Correction of the EXPLODED VIEW (P18)

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