

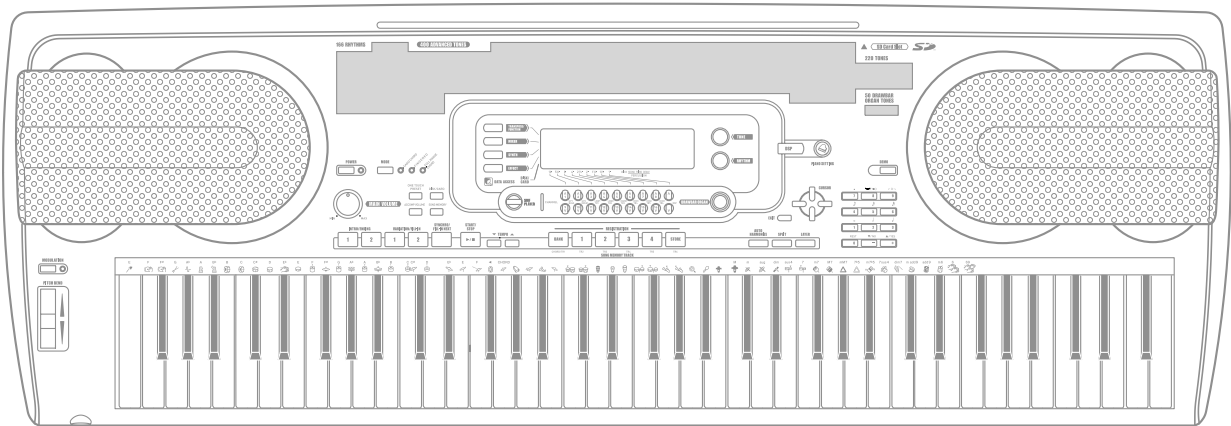
# CASIO®

# Service Manual

(without price)

## WK-3300

JUL. 2006



WK-3300

**ELECTRONIC KEYBOARD**

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# SPECIFICATIONS

## GENERAL

- Keyboard: 76 keys with touch response (OFF/1/2/3)
- Tones: 400 Advanced Tones + 200 Preset Tones + 20 Drum Sets + 100 standard user tones + 20 user tones with waves\*1 + 4 user drum sets with waves\*1 + 50 drawbar organ tones + 100 user drawbar organ tones (894 tones total); layer/split
- Polyphony: 32 notes maximum (10 for certain tones)
- Drawbar Organ Function  
 Drawbars: 9 (16', 5 1/3', 8', 4', 2 2/3', 2', 1 3/5', 1 1/3', 1')  
 Percussion: Second, Third  
 Click: On, Off
- Effects: DSP (200 types: internal, 100 user areas) + Reverb (16 types) + Chorus (16 types) + Equalizer (10 types, 4 bands)
- Auto Accompaniment  
 Rhythm Patterns: 182 (internal, 16 user areas\*1 )  
 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                     |
|-------------|---------------------|------------------------------|
| 0           | Island Dusk         | TECH-NOTE INTERNATIONAL LTD. |
| 1           | Malibu Sun          | TECH-NOTE INTERNATIONAL LTD. |
| 2           | Ticket to Cambridge | TECH-NOTE INTERNATIONAL LTD. |
- 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; DSP parameter; Modulation Assign; Modulation Depth
- Registration Memory  
 Number of Setups: 32 (4 setups X 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, Pitch bend range, 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

Pitch Bend Range: Adjustable (12 semitones upwards and downwards)  
Modulation: Equipped  
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\*1  
Supported Format: SMF0

## Flash Memory

Capacity: 4MB\*2  
Shared Area: Approximately 3.5MB\*2 (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.

## SD Memory Cards

Supported SD Memory Cards: 1GB or less (Cards with capacity greater than 1 GB are not supported.)  
Functions: Save and load of user tones, user songs, and registration data; playback of SMF; card formatting; file delete; file rename

## Terminals

SD memory card slot  
USB port: TYPE B  
Sustain/Assignable Terminal: Standard jack (sustain, sostenuto, soft, rhythm start/stop)  
Headphone/Output Terminal: Stereo standard jack  
Output Impedance: 200Ω  
Output Voltage: 5.5V (RMS) MAX  
Power Supply Terminal: 12V DC

Power Supply: Dual power supply system  
Batteries: 6 D-size batteries  
Battery Life: Approximately 4 hours continuous operation on alkaline batteries  
AC Adaptor: AD-12  
Auto Power Off: Turns power off approximately six minutes after last key operation. Enabled under battery power only, can be disabled manually.

Speaker Output: 6.1W + 6.1W

Power consumption: 12V --- 18W

Dimensions: 122.3 X 42.3 X 16.0cm (48 <sup>3</sup>/<sub>16</sub> X 16 <sup>11</sup>/<sub>16</sub> X 6 <sup>5</sup>/<sub>16</sub> inch)

Weight: Approximately 10.0kg (22.0 lbs) (without batteries)

\*1 The same memory area is used to store waveform data, accompaniment data, and SMF data.

\*2 Noted capacities are calculated values based on 1MB = 1024<sup>2</sup> bytes.

## ELECTRICAL

Current drain with 12 V DC:

Consumption Current 1720 mA ± 20 %  
Consumption Current at idle 290 mA ± 20 %  
with 12 keys from F3 to E4 pressed in 479 Ocarinag + LAYER  
Volume: maximum, Velocity: maximum

Speaker output level (V<sub>rms</sub> with 8 Ω load each channel):

with key L(E1)/R(G1) in 479 Ocarinag  
Volume: maximum, Velocity: maximum  
L: 5700 mV ± 20 %  
R: 5670 mV ± 20 %

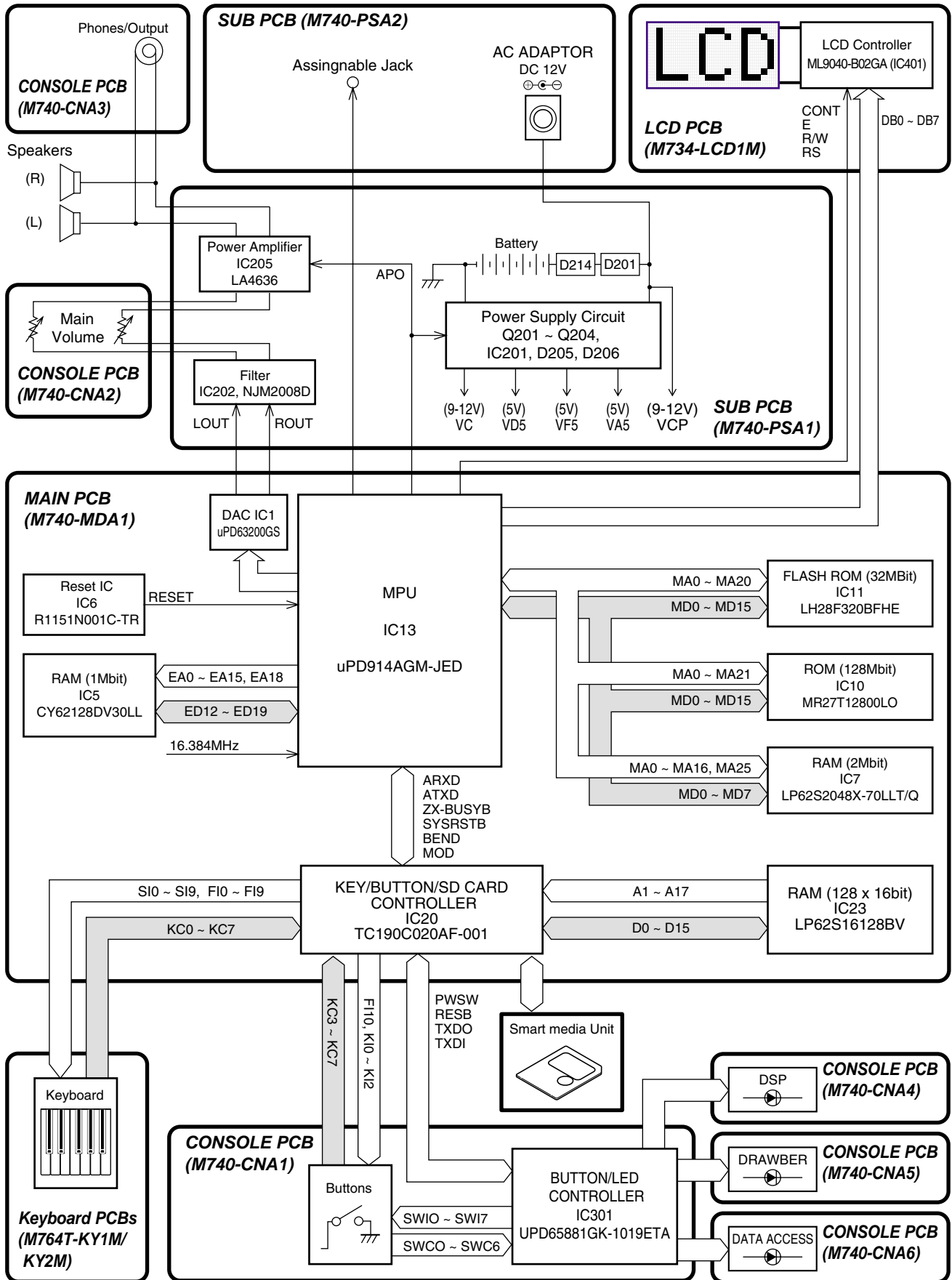
Phone output level (V<sub>rms</sub> with 32 Ω load each channel):

with key L(C2)/R(B5) in 479 Ocarinag  
Volume: maximum, Velocity: maximum  
L: 360 mV ± 20 %  
R: 330 mV ± 20 %

Output level (V<sub>rms</sub> with 47 KΩ load each channel):

with key L(E1)/R(G1) in 479 Ocarinag  
Volume: maximum, Velocity: maximum  
L: 3100 mV ± 20 %  
R: 3030 mV ± 20 %

# BLOCK DIAGRAM

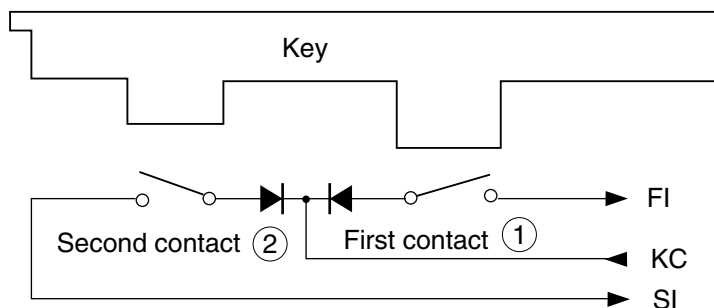


# CIRCUIT DESCRIPTION

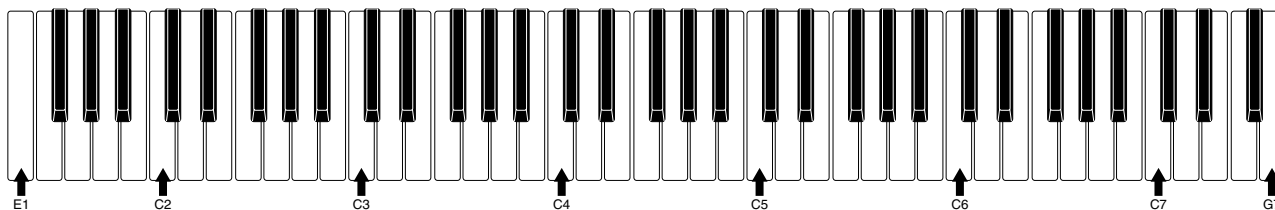
## KEY MATRIX

	KC0	KC1	KC2	KC3	KC4	KC5	KC6	KC7
<b>F10</b>		E1①	F1①	F#1①	G1①	G#1①	A1①	A#1①
<b>SI0</b>		E1②	F1②	F#1②	G1②	G#1②	A1②	A#1②
<b>F11</b>	B1①	C2①	C#2①	D2①	D#2①	E2①	F2①	F#2①
<b>SI1</b>	B1②	C2②	C#2②	D2②	D#2②	E2②	F2②	F#2②
<b>F12</b>	G2①	G#2①	A2①	A#2①	B2①	C3①	C#3①	D3①
<b>SI2</b>	G2②	G#2②	A2②	A#2②	B2②	C3②	C#3②	D3②
<b>F13</b>	D#3①	E3①	F3①	F#3①	G3①	G#3①	A3①	A#3①
<b>SI3</b>	D#3②	E3②	F3②	F#3②	G3②	G#3②	A3②	A#3②
<b>F14</b>	B3①	C4①	C#4①	D4①	D#4①	E4①	F4①	F#4①
<b>SI4</b>	B3②	C4②	C#4②	D4②	D#4②	E4②	F4②	F#4②
<b>F15</b>	G4①	G#4①	A4①	A#4①	B4①	C5①	C#5①	D5①
<b>SI5</b>	G4②	G#4②	A4②	A#4②	B4②	C5②	C#5②	D5②
<b>F16</b>	D#5①	E5①	F5①	F#5①	G5①	G#5①	A5①	A#5①
<b>SI6</b>	D#5②	E5②	F5②	F#5②	G5②	G#5②	A5②	A#5②
<b>F17</b>	B5①	C6①	C#6①	D6①	D#6①	E6①	F6①	F#6①
<b>SI7</b>	B5②	C6②	C#6②	D6②	D#6②	E6②	F6②	F#6②
<b>F18</b>	G6①	G#6①	A6①	A#6①	B6①	C7①	C#7①	D7①
<b>SI8</b>	G6②	G#6②	A6②	A#6②	B6②	C7②	C#7②	D7②
<b>F19</b>	D#7①	E7①	F7①	F#7①	G7①			
<b>SI9</b>	D#7②	E7②	F7②	F#7②	G7②			

Note: Each key has two contacts, the first contact ① and second contact ②.



## NOMENCLATURE OF KEYS



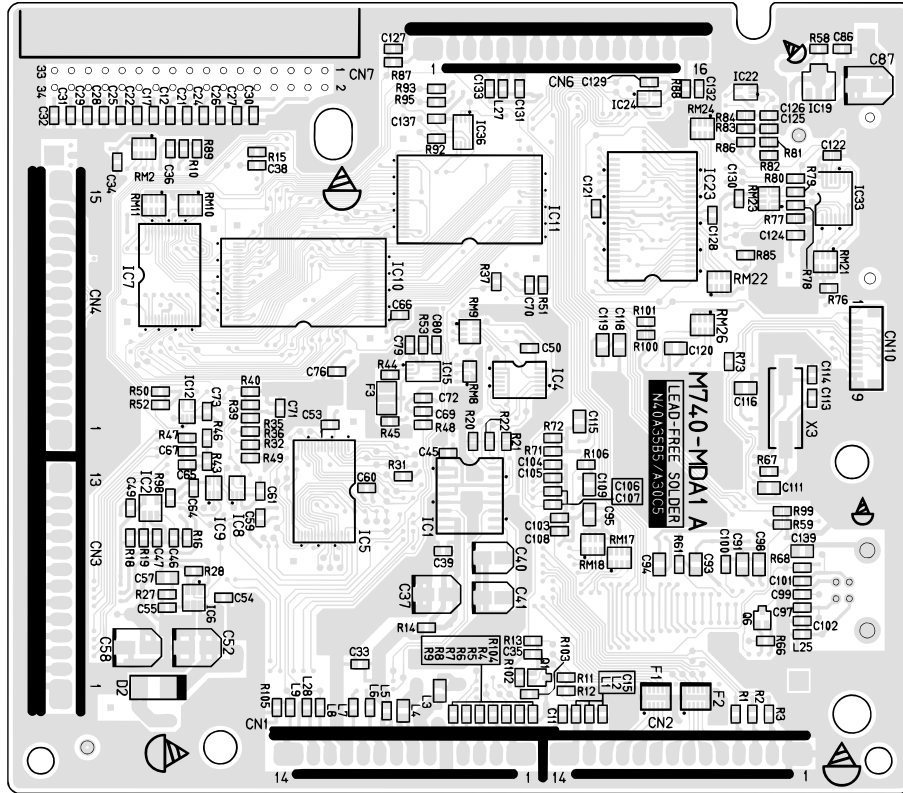
## BUTTON MATRIX

	KI0	KI1	KI2	F10
KC4	LAYER	SPLIT	AUTO HARMONIZE	+
KC5	2	-	0	3
KC6	5	4	1	6
KC7	9	8	7	DEMO

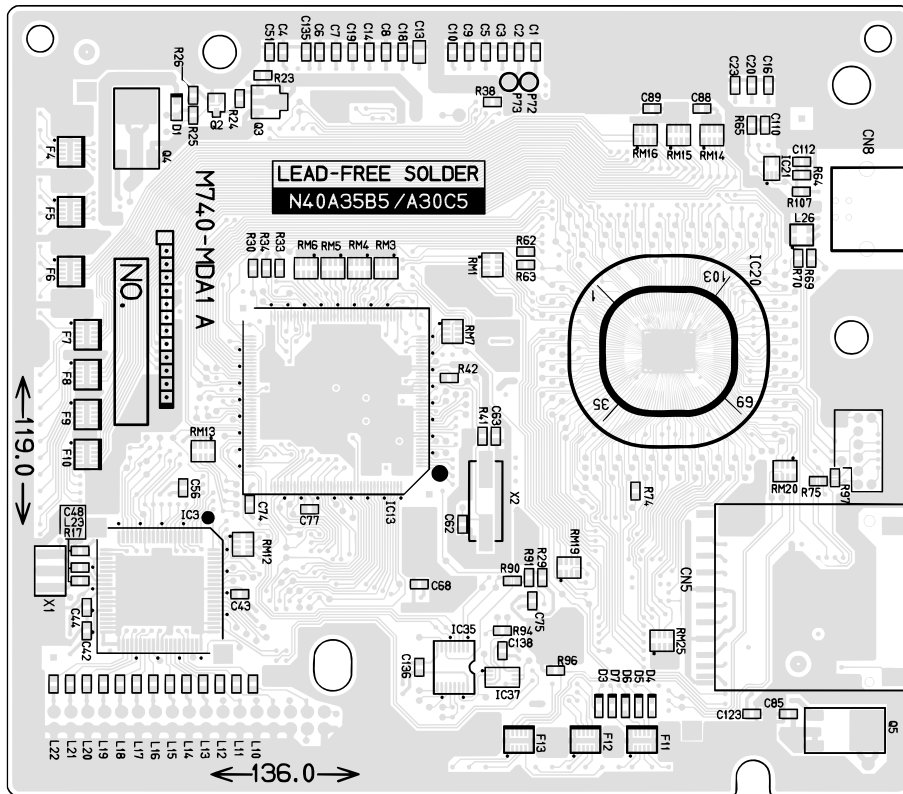
	SWI0	SWI1	SWI2	SWI3	SWI4	SWI5	SWI6	SWI7
SWC0	ACCOMP VOLUME	ONE TOUCH PRESET	MODE	INTRO/ ENDING 1	INTRO/ ENDING 2	VARIATION/ FILL-IN 1	VARIATION/ FILL-IN 2	SYNCRO/ FILL-IN NEXT
SWC1	SONG MEMORY	TEMPO DOWN	START/ STOP	BANK	REGISTRATION/SONG MEMORY TRACK			
					1	2	3	4
SWC2	CARD	SMF PLAYER	TEMPO UP	CH9	CH10	CH11	CH12	CH13
SWC3	CH1	CH2	CH3	CH4	CH5	CH14	CH15	CH16
SWC4	TRANCEPOSE/ FUNCTION	MIXER	SYNTH	EFFECT	CH6	CH7	CH8	1 FEET UP
SWC5			1 FEET DOWN	STORE		EXIT	◀	▲
SWC6	RHYTHM	TONE	PIANO SETTING	ORGAN	DSP	▶	▼	

# PRINTED CIRCUIT BOARD

## MAIN PCB M740-MDA1



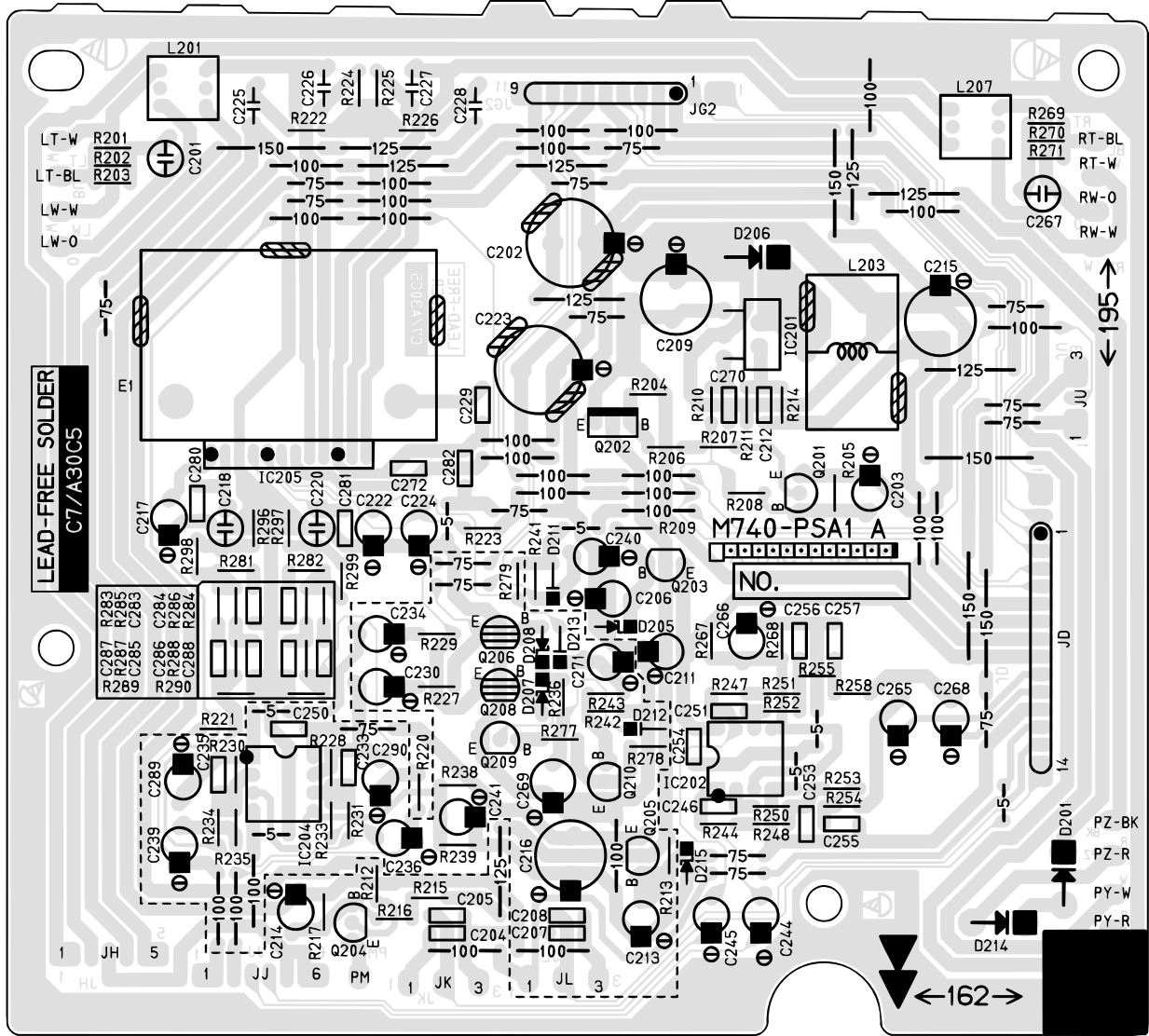
Top View



Bottom View

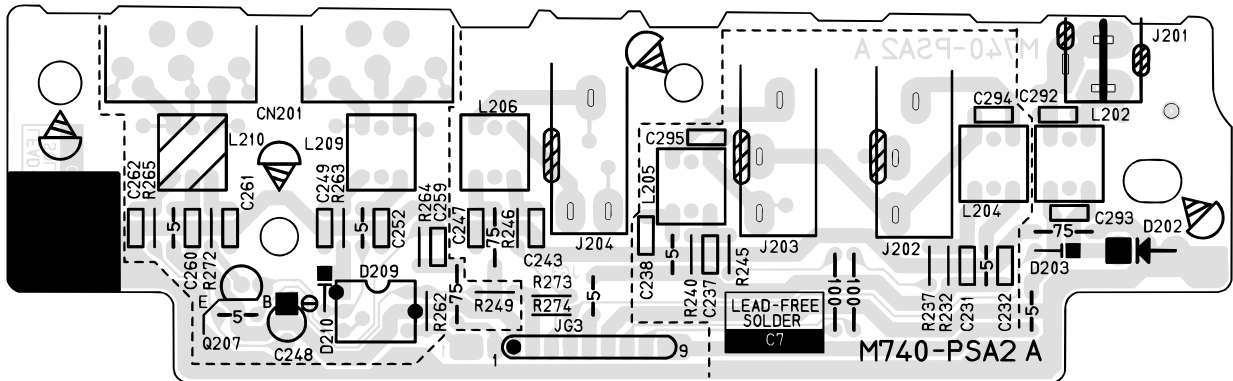


**SUB PCB M740-PSA1**



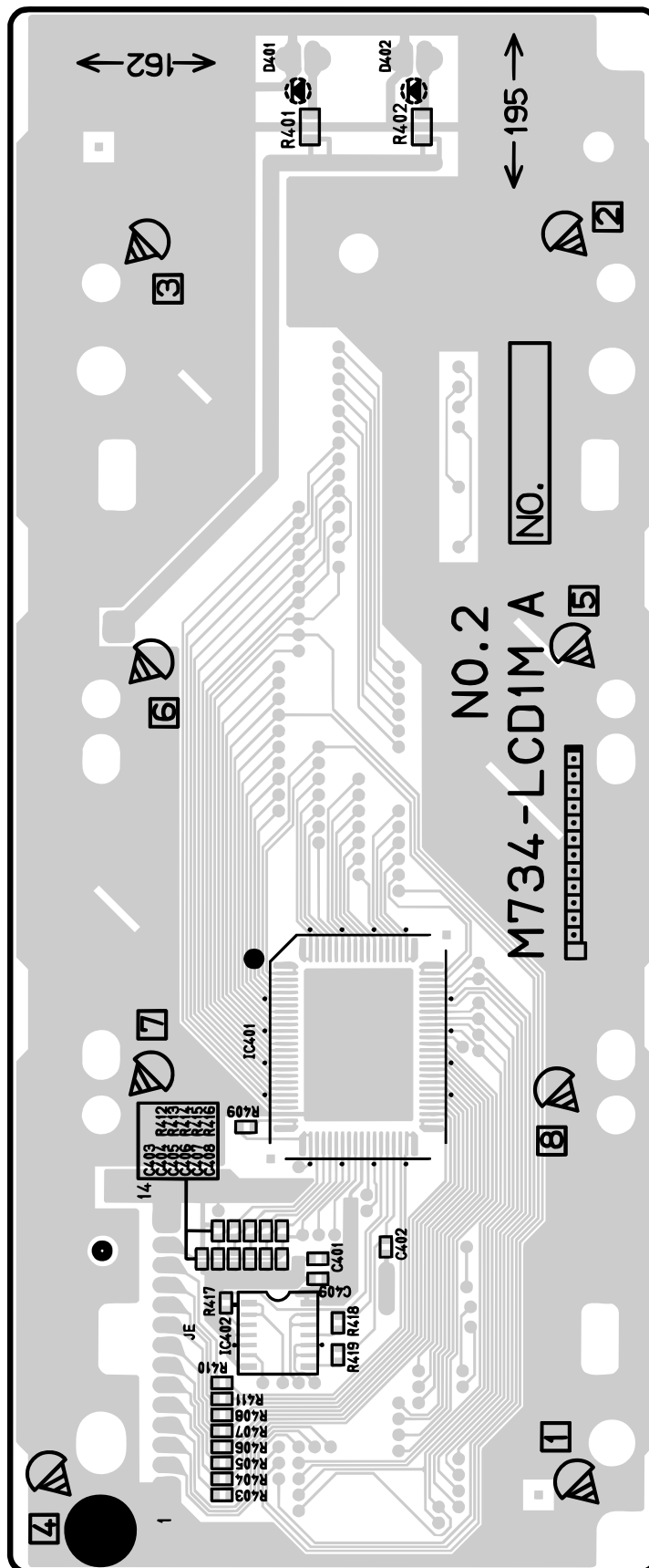
**Top View**

**SUB PCB M740-PSA2**



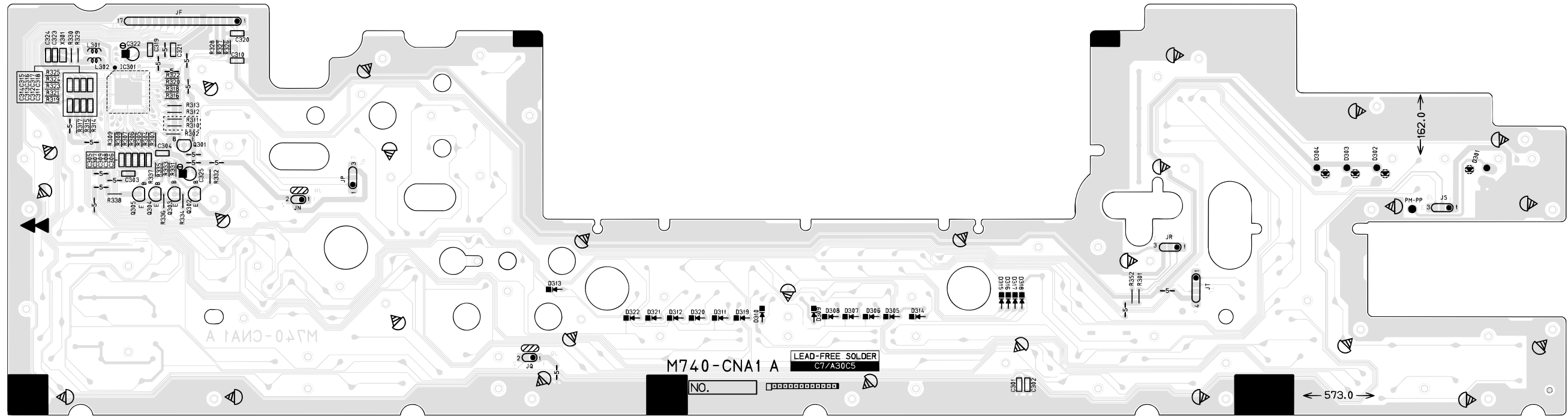
**Top View**

DISPLAY PCB M734-LCD1M

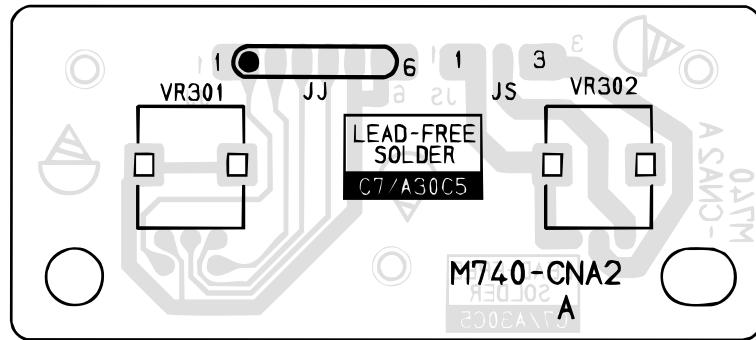


Top View

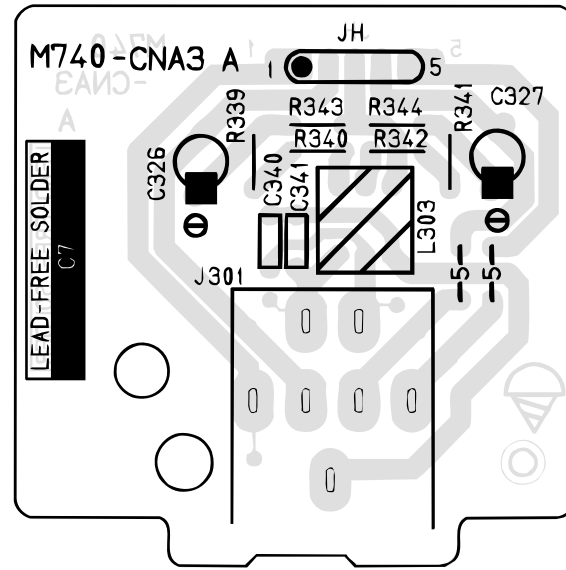
**CONSOLE PCB M740-CNA1**



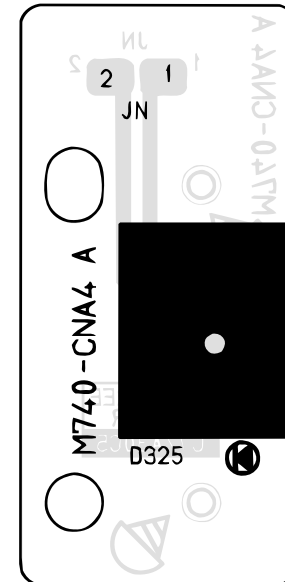
**CONSOLE PCB M740-CNA2**



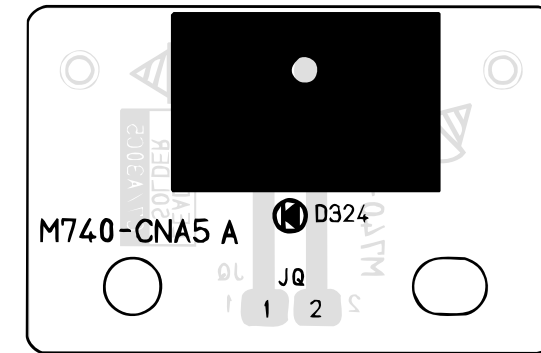
**CONSOLE PCB M740-CNA3**



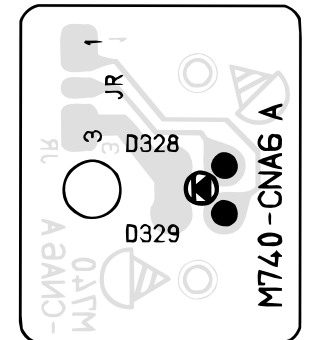
**CONSOLE PCB M740-CNA4**



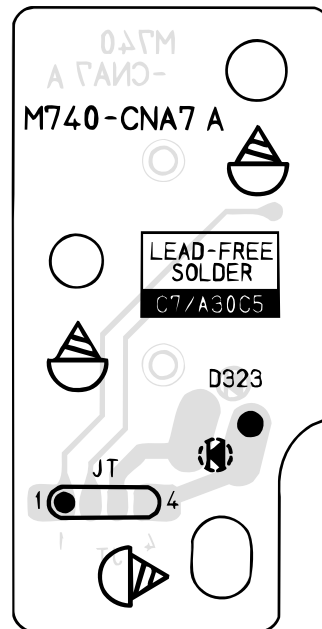
**CONSOLE PCB M740-CNA5**



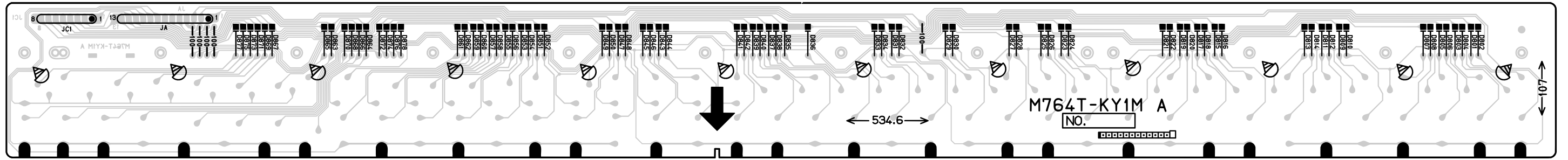
**CONSOLE PCB M740-CNA6**



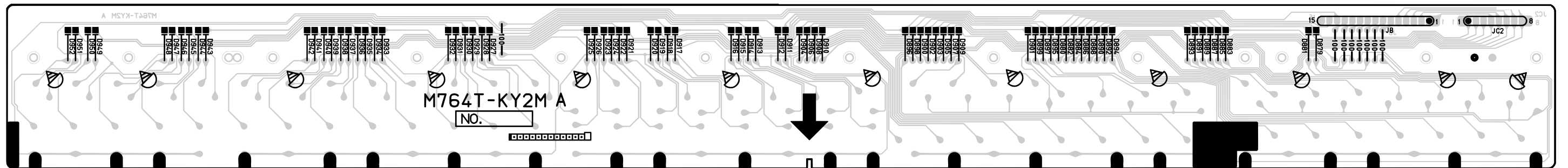
**CONSOLE PCB M740-CNA7**



KEYBORD PCB M764T-KY1M



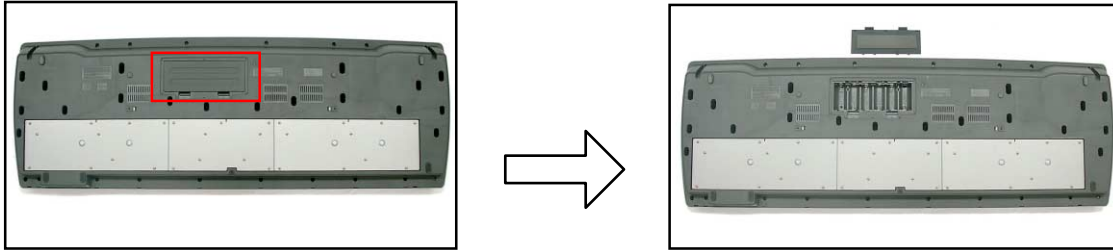
KEYBORD PCB M764T-KY2M



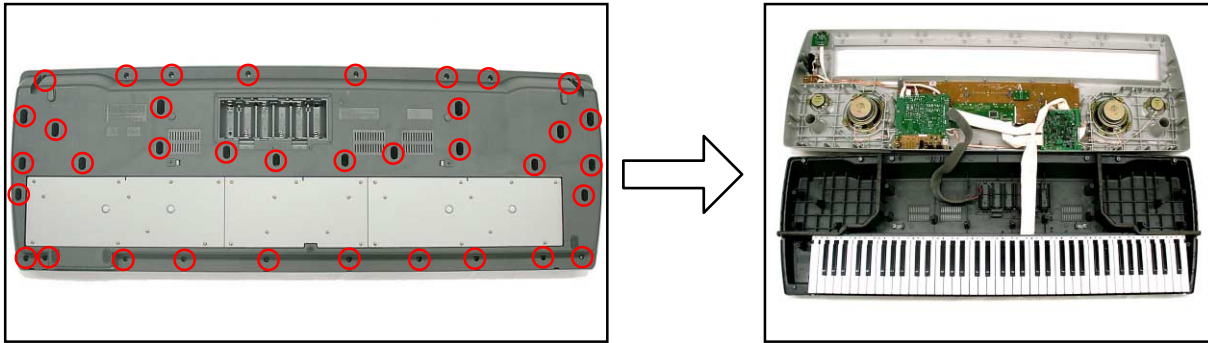
## DISASSEMBLY

■ The Disassembly Procedure inscribed on this manual is exactly the same as that of WK-3200 since WK-3300 has the same frame as WK-3200.

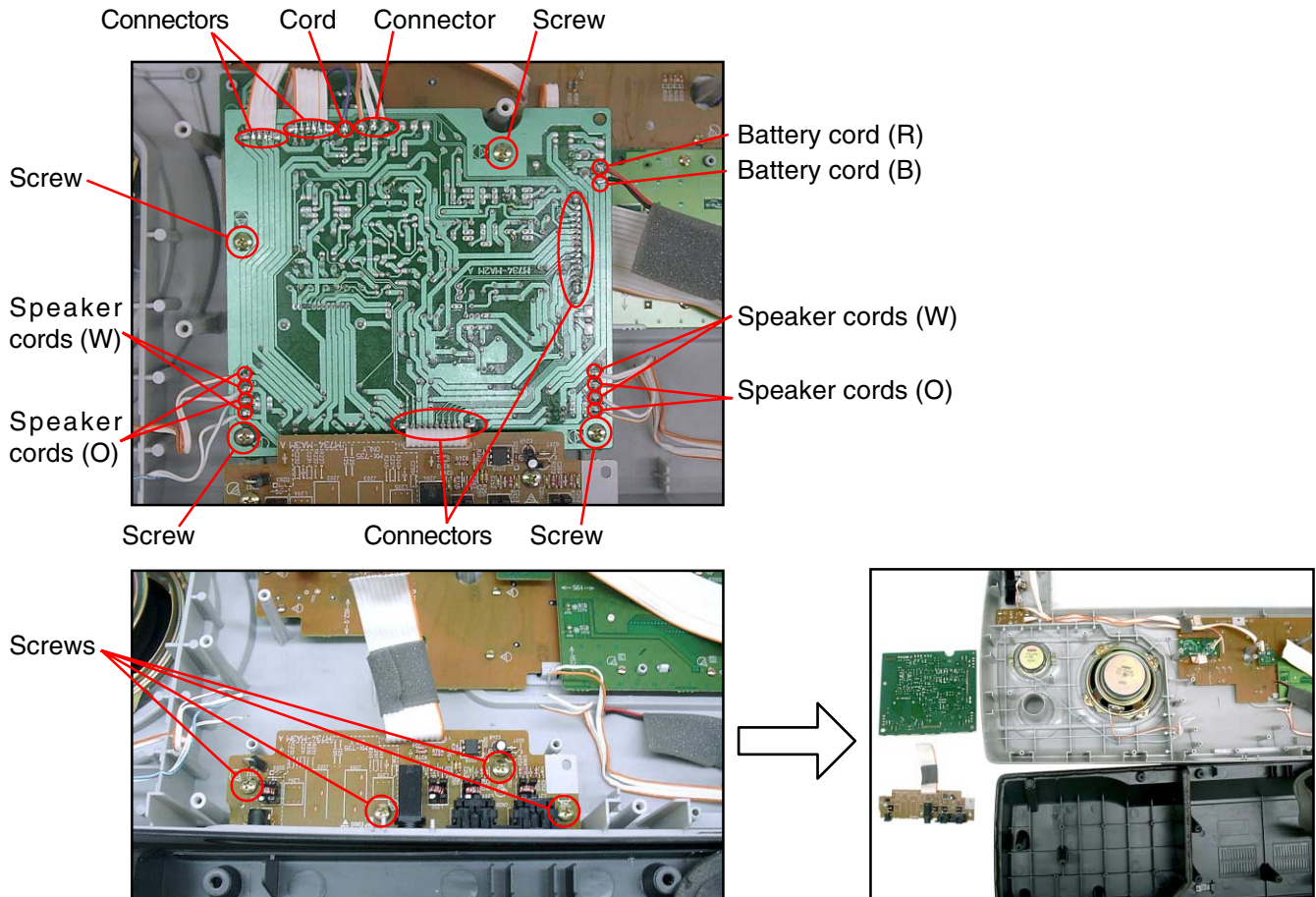
1. Remove the battery cover and then the battery.



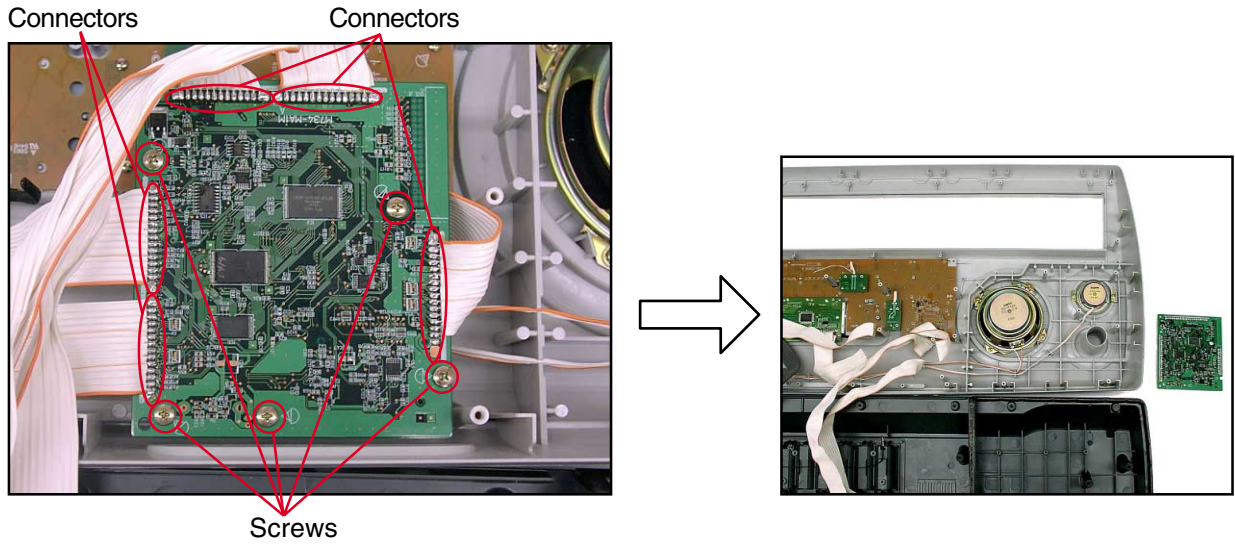
2. Remove 36 screws and then the upper case.



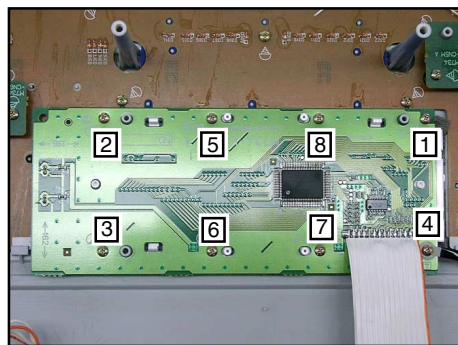
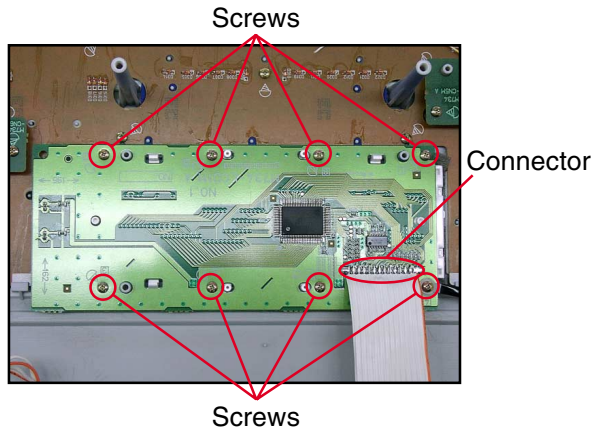
3. Remove 4 screws, 8 speaker cords, 2 battery cords, 1 cord (PM), 5 connectors (JD, JG2, JH, JK, JJ) and then the PCB ASS'Y (MA2M).



4. Remove 5 screws, 5 connectors (JA, JB, JD, JE, JF) and then the PCB ASS'Y (MA1M).



5. Remove 8 screws, 1 connector and then the LCD ASS'Y (LCD1M).



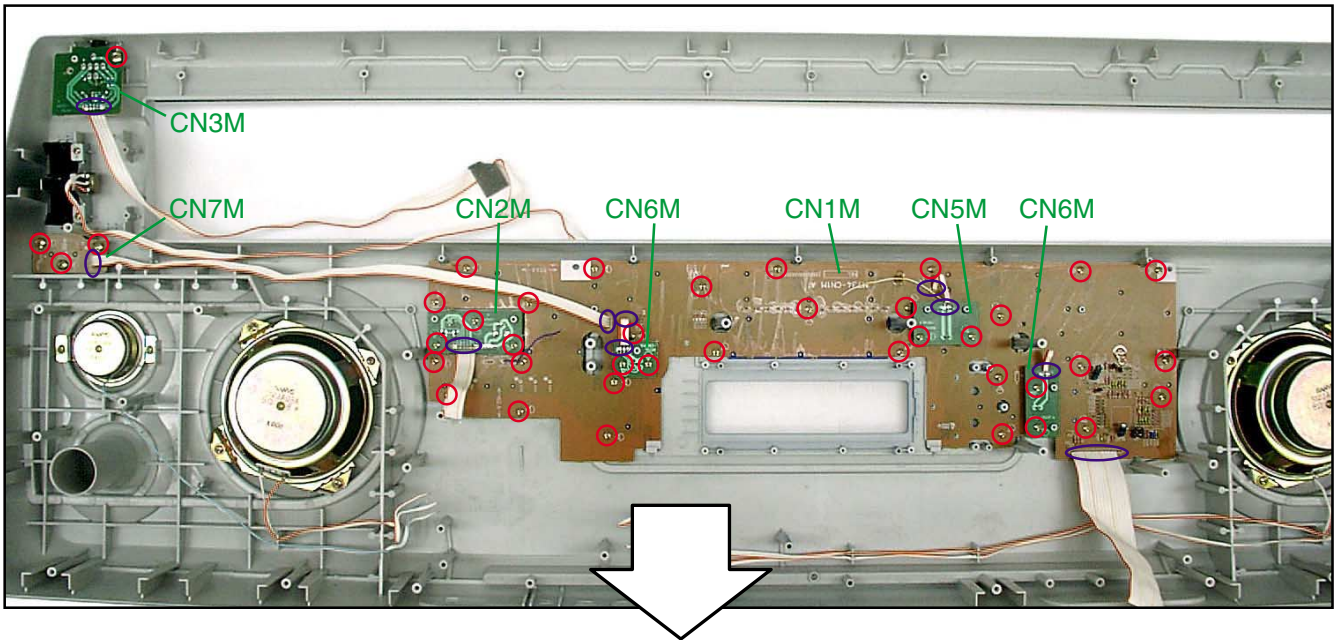
Note: Tighten the screws in the order from 1 to 8 when reassembling.

6. Remove the volume knob, screws, connectors and then the CN1, CN2, CN3, CN4, CN5, CN6, CN7.

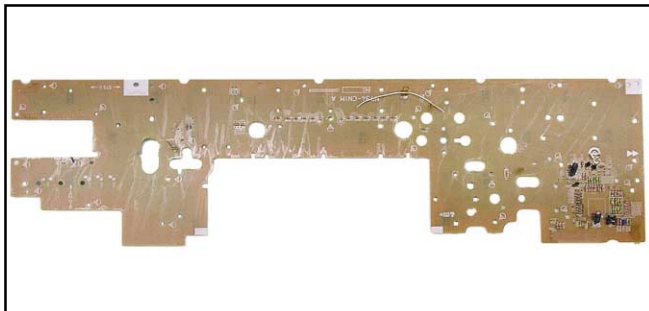


Volume knob

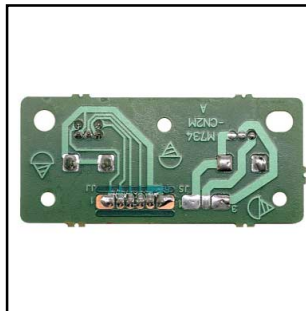
Screws Connector



CN1M



CN2M



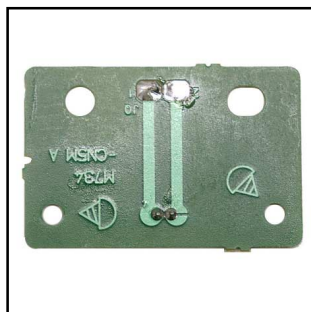
CN3M



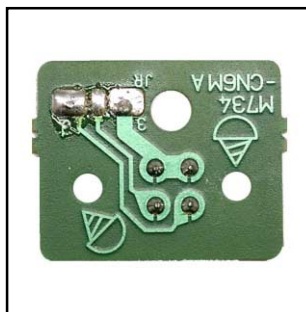
CN4M



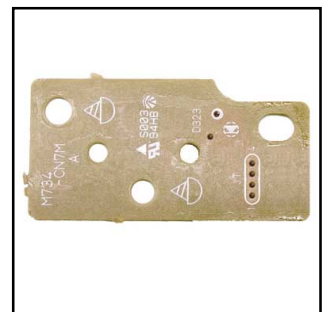
CN5M



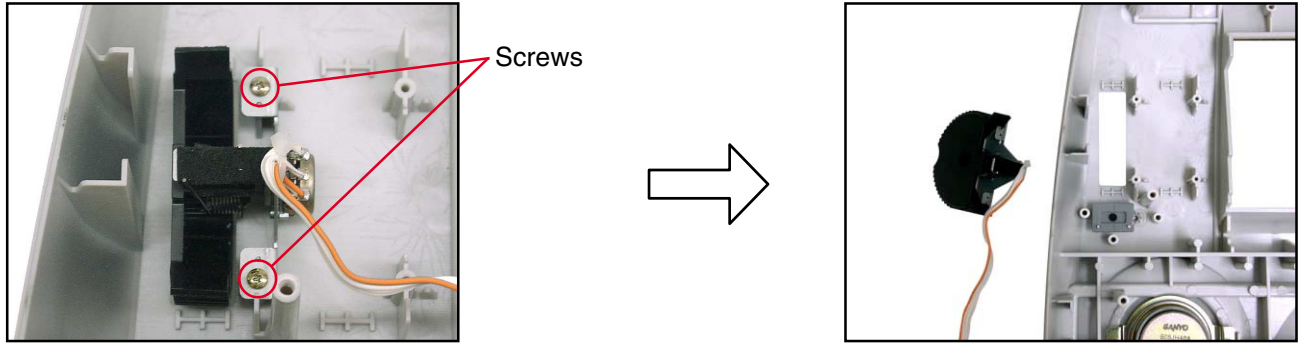
CN6M



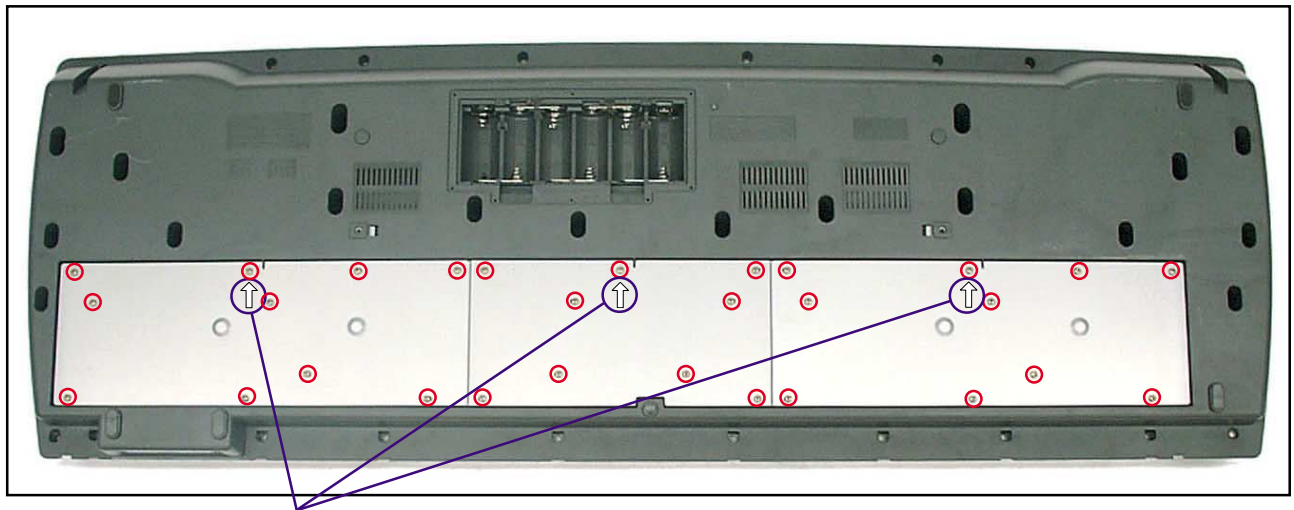
CN7M



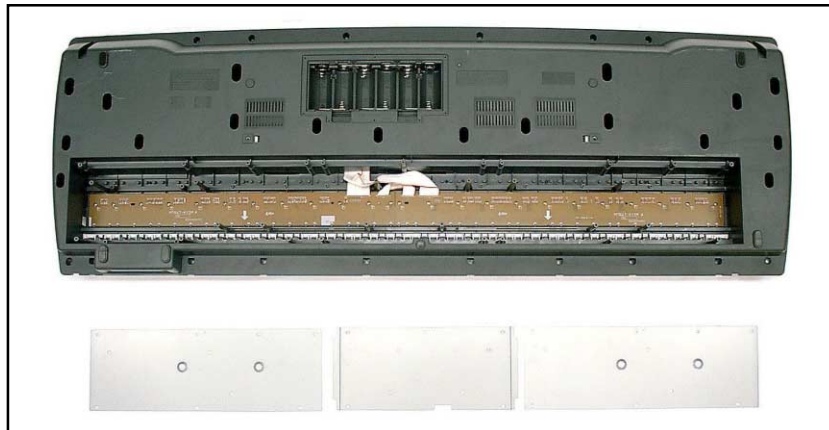
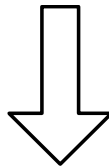
7. Remove 2 screws and then the Bender assy.



8. Remove 29 screws and then the lower case.

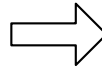
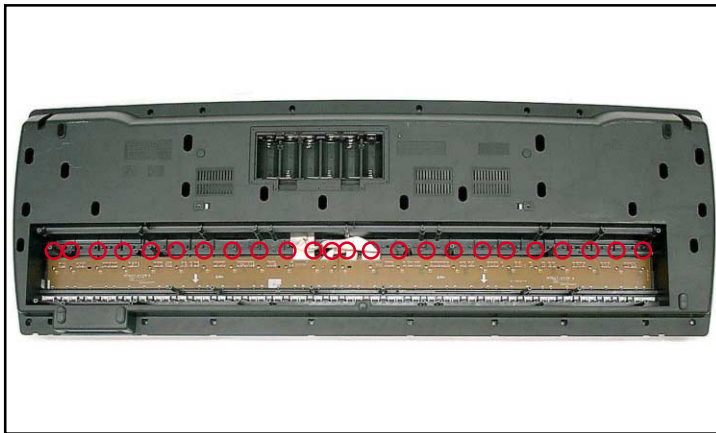


Note: Tighten the screw with the arrow mark in the figure first when reassembling.

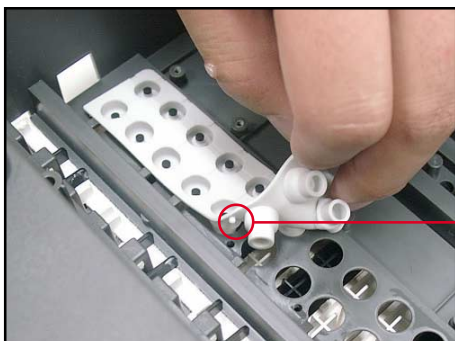
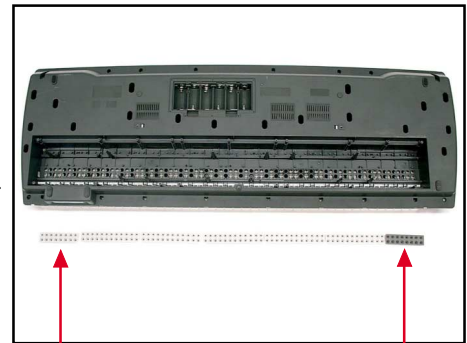
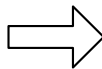
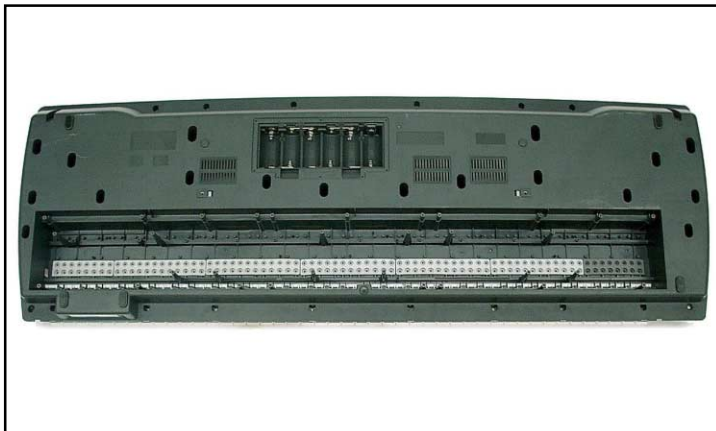




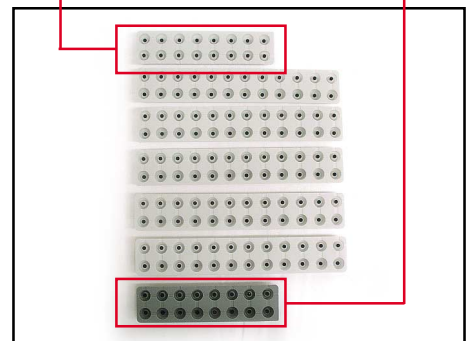
9. Remove 24 screws and then the PCB ASSY (KY1M, KY2M).



10. Remove the rubber keys.

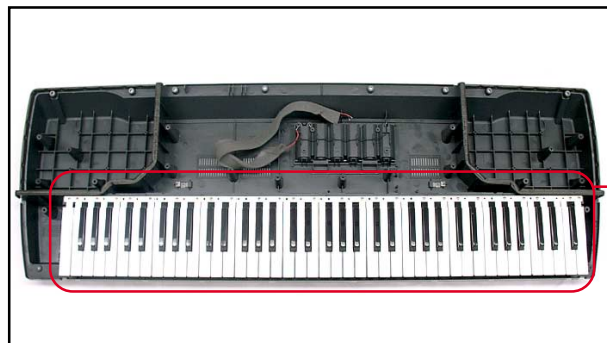


Projection



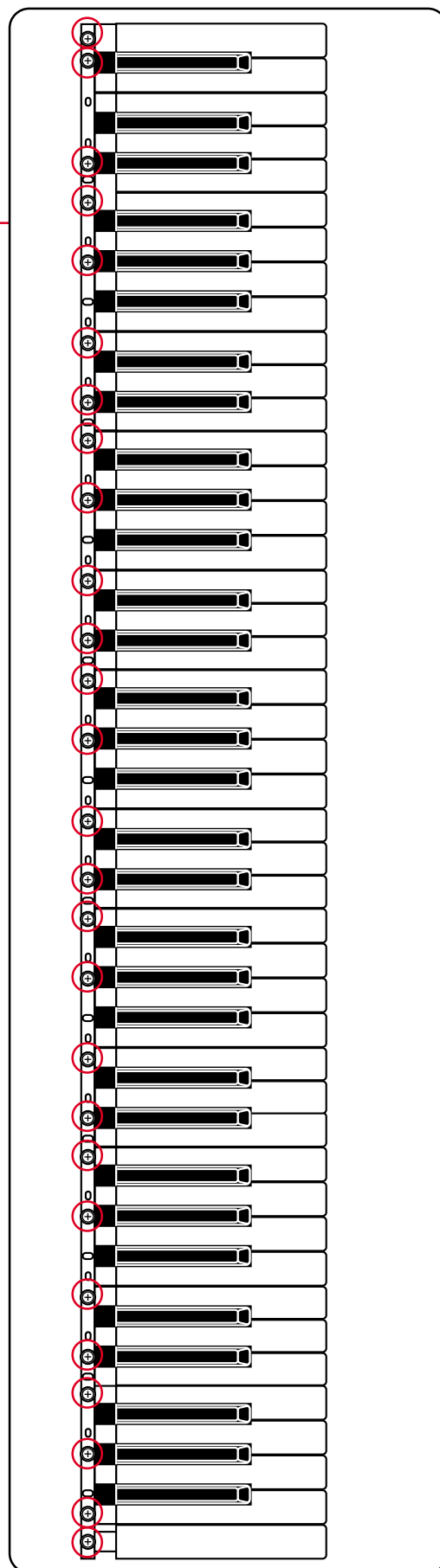
Note: Pay attention to the positions of the rubber keys as one of them has a different length.  
Match the projections of the rubber keys with the holes of the lower case when reassembling.

11. Remove 27 screws and then the white keys.



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

12. Remove the black keys.



# DIAGNOSTIC PROGRAM

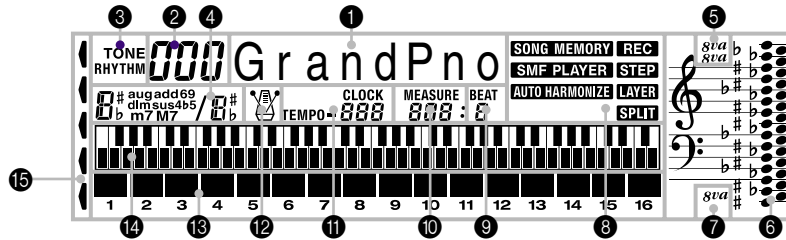
## Initial Setup

1. Connect an AC adaptor.
2. Connect a Sustain pedal.
3. "Main" volume: MAX.
4. Insert the SD card.

## 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.
3. Release the "Cursor key UP" and "Cursor key Down" buttons. "TEST 740" appears on the LCD.

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



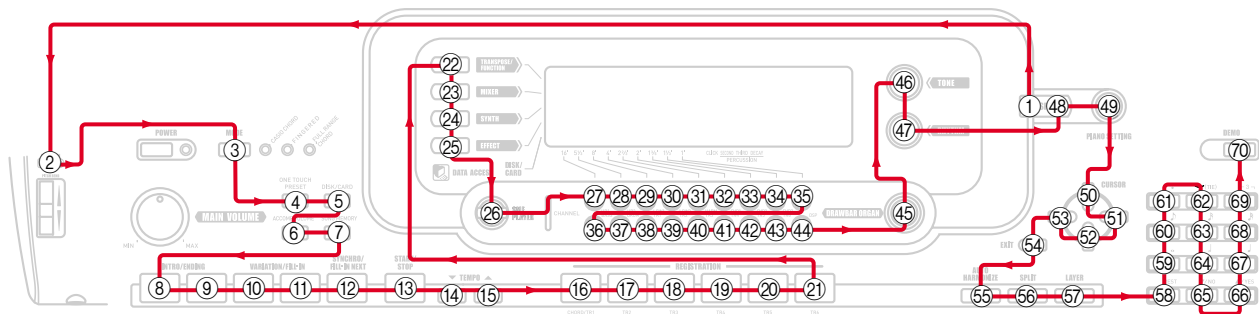
## Diagnostic program

### 1. Button check

- 1 Press "DSP" button.
- 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 DSP		19 REGISTRATION 3	REGIST 3	37 CH10	CH10	54 EXIT	EXIT
2 MODULATION	MOD	20 REGISTRATION 4	REGIST 4	38 CH11	CH11	55 AUTO HARMONIZE	HARMO
3 MODE	MODE	21 STORE	STORE	39 CH12	CH12	56 SPLIT	SPLIT
4 ONE TOUCH PRESET	OTP	22 TRANSPOSE/FUNCTION	TRN/FUNC	40 CH13	CH13	57 LAYER	LAYER
5 CARD	CARD	23 MIXER	MIXER	41 CH14	CH14	58 0	0
6 ACCOMP VOLUME	ACMP VOL	24 SYNTH	SYNTH	42 CH15	CH15	59 1	1
7 SONG MEMORY	SONG	25 EFFECT	EFFECT	43 CH16	CH16	60 4	4
8 INTRO/ENDING 1	INT/END1	26 SMF PLAYER	SMF	44 DSP CH	DSP CH	61 7	7
9 INTRO/ENDING 2	INT/END2	27 CH1	CH1	45 DRAWBAR ORGAN	DRAWBAR	62 8	8
10 VARIATION/FILL-IN 1	VAR/FIL 1	28 CH2	CH2	46 TONE	TONE	63 5	5
11 VARIATION/FILL-IN 2	VAR/FIL 2	29 CH3	CH3	47 RHYTHM	RHYTHM	64 2	2
12 SYNCHRO/FILL-IN NEXT	SYNCHRO	30 CH4	CH4	48 DSP	DSP	65 -	-
13 START/STOP	STRT/STP	31 CH5	CH5	49 PIANO SETTING	PIANO	66 +	+
14 TEMPO ▼	TEMPO/DW	32 CH6	CH6	50 [CURSOR BUTTONS]		67 3	3
15 TEMPO ▲	TEMPO/UP	33 CH7	CH7	UP	UP	68 6	6
16 BANK	BANK	34 CH8	CH8	51 RIGHT	RIGHT	69 9	9
17 REGISTRATION 1	REGIST 1	35 1Ft UP	1Ft UP	52 DOWN	DOWN	70 DEMO	DEMO
18 REGISTRATION 2	REGIST 2	36 CH9	CH9	53 LEFT	LEFT		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 SUS OFF

## 4. Low Voltage detection check.

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

① VOLT HI

## 5. Sound Source check

- ① Press "7" button.
- ② The MAX sin sound sounds from Left speaker.
- ③ Press "8" button.
- ④ The MAX sin sound sounds from Both speaker.
- ⑤ Press "9" button.
- ⑥ The MAX sin sound sounds from Right speaker.

① TG MAX L

① TG MAX C

① TG MAX R

## 6. ROM check

- ① Press "INTRO/ENDING1" button.

① ROM CHK

↓

① ROM OK

## 7. Flash memory check

- ① Press "INTRO/ENDING2" button.

① FMC CHK

↓

① FMC OK

## 8. Flash memory SUM check

- ① Press "SONG MEMORY" button.

① FMS CHK

↓

① FMS 7898

## 9. DSP RAM check

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

① DRAM OK

## 10. CPU RAM check

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

① CRAM OK

### 11. LED check

- ① Press “TEMPO▼” button.
- ② LEDs illuminate in the following order.  
MODULATION  
FULL RANGE CHORD  
FINGERED  
CASIO CHORD  
DATA ACCESS  
DRAWBAR ORGAN  
DSP

### 12. LCD check

- ① Press “TEMPO▲” button.
- ② Turn on all segments of the LCD.

### 13. Card check (If no smart media card, this check can be skipped)

- ① Press “-” button.  
“Err NO CARD” appears and an NG sound sounds when no card is inserted.

### 14. Bender check

- ① Press “MODE” button.
- ② Turn the “PITCH BEND WHEEL” to MAX.
- ③ Turn the “PITCH BEND WHEEL” to MIN.

### 15. 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.

### 16. APO check

- ① Press “EXIT” button.  
\* Go out from TEST mode (Power off).  
\* The LCD turns off.

Message on LCD

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

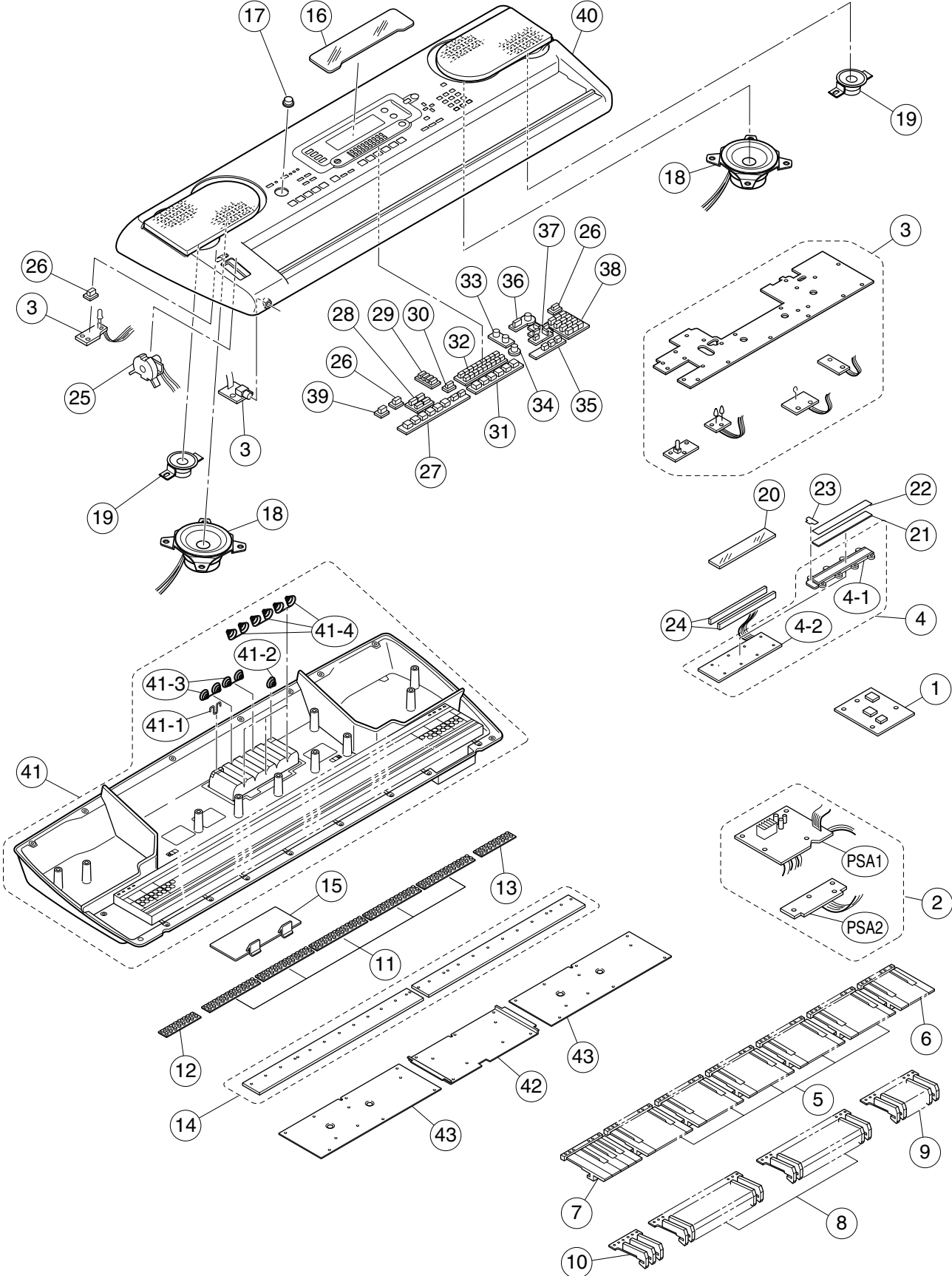
① SMC CHK  
↓  
① CARD OK

① BEND CHK  
② 127  
① BEND CHK  
② 000  
① BEND OK

① Exiting

**DIAGNOSTIC PROGRAM IS FINISHED.**

# EXPLODED VIEW



# PARTS LIST

## WK-3300

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	Overs	Price Code	R	Remarks
<b>Main PCB MA1M</b>								
N	1	10248134	PCB ASSY/MAIN	TK-RJM507144*001	1	DT	A	
	IC2	10197796	IC	TA75S393F(TE85L.F)	1	AL	C	
	IC4	10197802	IC	TC74VHCT08AFT(EL.K	1	AE	C	
	IC5	10198126	LSI	CY62128DV30LL70ZAX	1	BN	C	
N	IC6	10241413	IC	R1151N001C-TR-F	1	AE	C	
	IC7	10197390	LSI	LP62S2048AX70LLTFC	1	AY	C	
	IC8,9,21,22	10197555	IC	TC7SZ14FU(TE85L.F)	4	AE	C	
	IC13	10200257	IC	UPD914AGM-JED-A	1	CH	C	
	IC15	10197809	IC	TC7WH123FU(TE12L.F	1	AE	C	
N	IC19	10239682	IC	RH5RL33AA-T1-F	1	AB	C	
N	IC33	10240648	IC	TC74LCX08FT(EL.K)	1	AE	C	
	IC35	10197798	IC	TC74LCX138FT(EL.K)	1	AI	C	
N	IC36	10245659	IC	TC7WZ00FU(TE12L.F)	1	AF	C	
N	IC37	10245660	IC	TC7WZ08FU(TE12L.F)	1	AG	C	
	Q3	10197813	TRANSISTOR	2SD2150T100R	1	AE	C	
	Q1,2	69300298	TRANSISTOR	2SC4081T106R	2	AA	C	
	Q4,5	10015566	TRANSISTOR	2SB1181TLR	2	AC	C	
	D1	10199220	DIODE	HZU4.3B2TRF-E	1	AB	C	
	D2	23902058	DIODE	1SR154-400TE25	1	AA	C	
	D3-7	10009218	DIODE	1SS400TE61	5	AA	C	
N	L3	10214942	COIL	BLM21PG331SN1D	1	AA	C	
	L1,2,5-9,27,28	10095204	COIL	BLM18AG102SN1D	9	AA	C	
	L26	10158809	COIL	DLP31SN221SL2L	1	AI	C	
	L4	10122963	COIL	BLM21AG102SN1D	1	AC	C	
	L24,25	10089941	COIL	BLM21PG221SN1D	2	AA	C	
	Q6	10153685	FET	2SJ346(TE85L.F)	1	AA	C	
	F6,7,8	10122975	R-C NETWORK	EZASSB516BJ	3	AA	C	
	F1,2,4,5,9-13	10122976	R-C NETWORK	EZASTB63ABJ	9	AA	C	
	X2	10208977	RESONATOR	SSM1638400F16FSFZ8	1	AC	C	
	X3	10211946	RESONATOR	SSM1200000F17F5FZ8	1	AC	C	
<b>Sub PCB MA2M</b>								
N	2	10248136	PCB ASSY/PSA	TK-RJM507145*001	1	CL	B	
	IC201	10201503	IC	PQ1CG21H2FZH	1	AO	B	
	IC202	10206677	IC	NJM2068D-D	1	AH	B	
	IC205	10203081	IC	LA4636-E	1	AV	B	
	Q201,203,204,205	10206673	TRANSISTOR	KTC3199-GR-AT/P	4	AA	C	
	D201,202,206,214	10209003	DIODE	1N5822-F100	4	AB		
	Q202	10206675	TRANSISTOR	KTA1273-Y-AT/P	1	AA	C	
	D203	10108141	DIODE	1SS133TP	1	AA	C	
	D205	10115969	DIODE	DZ5.6BSBTP	1	AA	C	
	J201	10208247	JACK/DC	DJ-0702B*019	1	AA	C	
	J204	10206815	JACK	JY-6314*01-030	1	AA	C	
	L201,202,206,207	10206680	COIL	R2318-RB53856397NP	4	AA	C	
	L203	10208248	COIL	R187-860400NP	1	AC	C	

Notes : Q - Quantity per unit

R - Rank



N	Item	Code No.	Part Name	Specification	Overs	Price Code	R	Remarks
<b>Console PCB CN1M~CN7M</b>								
N	3	10248138	PCB ASSY/CNA	TK-RJM507146*001	1			CNA1~ CNA7
	IC301	10159709	LSI	UPD65881GK-1019ETA	1		B	
	Q301, 304, 305	10209017	TRANSISTOR	KTA1267-GR-AT/P	3		C	
	D305-322	10108141	DIODE	1SS133TP	18		C	
	D302-304	10122219	LED	1154GD-B5/9-90	3	AD	C	
	D301	10123009	LED	1154HD-B5/8-90	1		C	
	L303	10206672	COIL	R2318-RB53856396NP	1			
N	L301, 302	10210717	FERRITE BEAD	BB36-851665NP	1		C	
	X301	10093909	OSCILLATOR/CERAMIC	CSBLA1M00J58-B0	1		C	
	VR301	10123103	VARIABLE RESISTOR	RK09K12C0D1B	1	AH	C	
	J301	36120665	JACK/PHONE	YKB21-5006	1		C	
N	D324, 325	10221285	LED	SDPB3DD0C100DEFGHI	2		C	
	D328, 329	10123006	LED	1154GD-B5/4.5-90	2	AD	C	
	D323	10123008	LED	1154GD-B5/8-90	1	AD	C	
<b>BL assy</b>								
	4	10123292	BACK LIGHT ASSY	TK-RJM503021*001	1	BW	B	
	4-1	10123033	REFLECTOR	RJM502534-001V01	1	AD	C	
	4-2	10123302	PCB ASSY/LCD1M	TK-RJM502995*001	1	BO	B	
	IC401	10006502	LSI	ML9040-B02GA	1	AU	B	
	IC402	10122996	IC	TC74HCT08AF(EL)	1	AB	B	
<b>Key board assy</b>								
	5	69222720	KEY SET/LT WHITE	M312118*1	5	AP	C	
	6	69237900	KEY SET/LT76R WHITE	M340231*1	1	AO	C	
	7	69237910	KEY SET/LT76L WHITE	M340230*1	1	AO	C	
	8	69068482	KEY SET/LS BLACK	M140369B-3	2	AM	C	
	9	10025058	KEY SET/LSK-8P BLACK	M140369-8	1	AH	C	
	10	10025059	KEY SET/LSK-3P BLACK	M140369-7	1	AN	C	
	11	10025055	RUBBER/CONTACT CB	M241297-1	5	AJ	C	
	12	10025054	RUBBER/CONTACT EB	M241298-1	1	AH	C	
	13	10025060	RUBBER/CONTACT CG	M241299-1	1	AH	C	
	14	10123289	PCB ASSY/KY1-2M	TK-RJM503000*001	1	BT	B	
	D801~D952	23153132	DIODE	1SS133T-77	152	AA	C	

Notes : Q - Quantity per unit

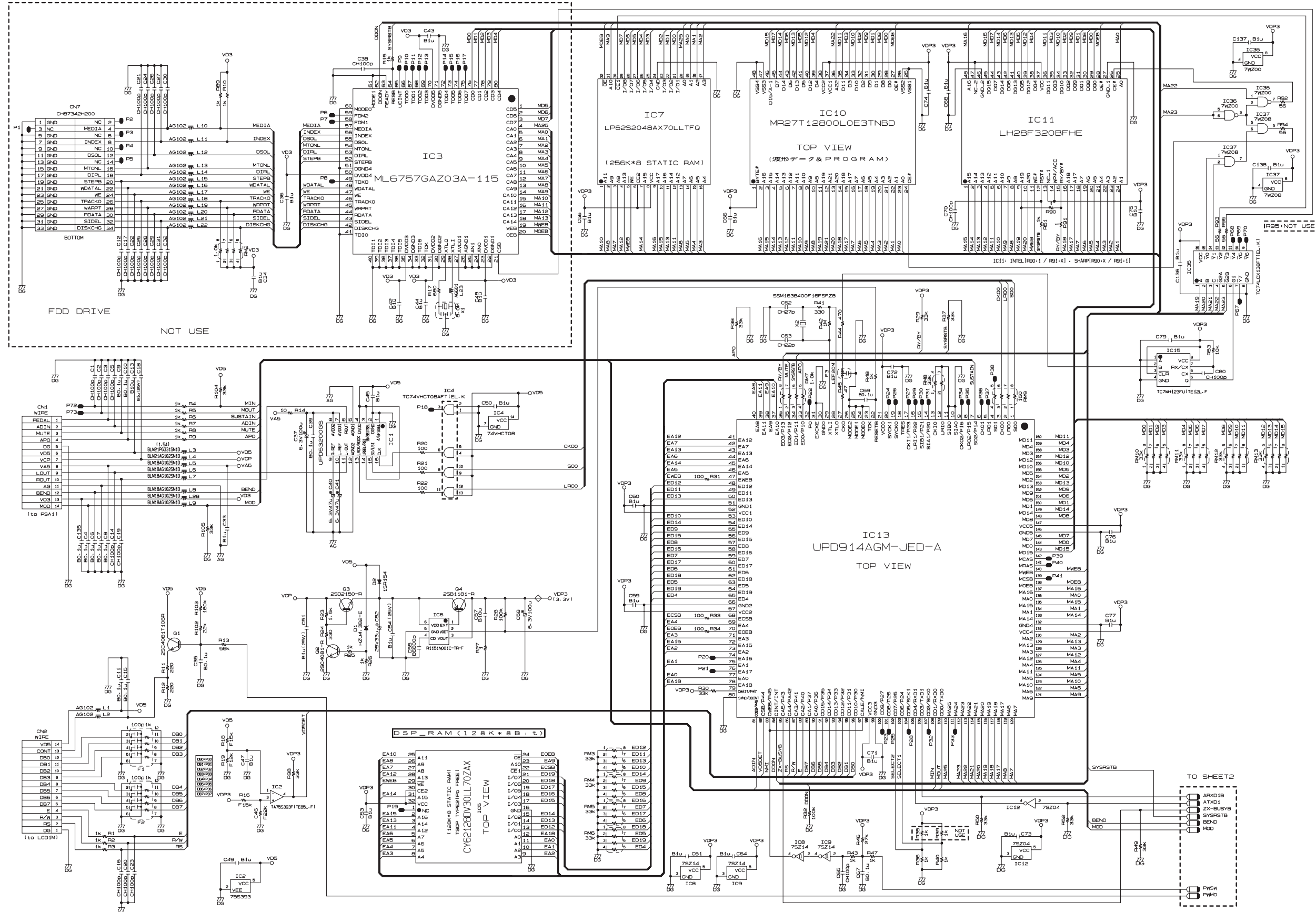
R - Rank

N	Item	Code No.	Part Name	Specification	Overs	Price Code	R	Remarks
<b>Case Unit</b>								
N	15	10200667	COVER/BATTERY	TK-M341288*003	1	AX	C	
N	16	10247812	PLATE/DISPLAY	RJM502476-007V01	1		C	
N	17	10247808	KNOB/RTR	M341109-007V01	1		C	
N	18	10232709	SPEAKER	C12JA26	2		C	
N	19	10228235	SPEAKER	C05JH59	2		C	
	20	10197776	LCD	TR4194N	1	BO	C	
	21	10122917	PLATE/BACK LIGHT	RJM502475-001V01	1	AP	X	
	22	10122970	FILM	RJM502473-001V01	1	AA	X	
	23	10081190	PIECE/TOP	RJM501982-001V01	2	AA	X	
	24	10122965	CONNECTOR	RJM502474-001V01	2	AI	C	
	25	10200666	BENDER ASSY	TK-M340804*009	1	BU	C	
N	26	10247814	RUBBER/KEY/A	RJM502517-007V01	3		C	
N	27	10247816	RUBBER/KEY/B	RJM502518-006V01	1		C	
N	28	10247818	RUBBER/KEY/C	RJM502519-006V01	1		C	
N	29	10247820	RUBBER/KEY/D	RJM502520-005V01	1		C	
N	30	10247821	RUBBER/KEY/E	RJM502521-006V01	1		C	
N	31	10247822	RUBBER/KEY/F	RJM502522-007V01	1		C	
N	32	10247824	RUBBER/KEY/G	RJM502523-007V01	1		C	
N	33	10247826	RUBBER/KEY/H	RJM502524-004V01	1		C	
N	34	10127788	RUBBER/KEY/J	RJM502525-001V02	1		C	
N	35	10247827	RUBBER/KEY/K	RJM502526-006V01	1		C	
N	36	10247880	RUBBER/KEY/L	RJM502527-006V02	1		C	
N	37	10247886	RUBBER/KEY/M	RJM502870-006V01	1		C	
N	38	10247882	RUBBER/KEY/N	RJM502529-006V01	1		C	
N	39	10247884	RUBBER/KEY/P	RJM502530-006V01	1		C	
N	40	10248137	CASE SUBASSY/UPPER	TK-RJM506673*001	1		X	
N	41	10200669	CASE SUBASSY/MIDDLE	TK-M141081*011	1	DE	X	
	41-1	10036658	SPRING/BATTERY/(+)	M441101A-1	1	AA	X	
	41-2	10036659	SPRING/BATTERY/(-)	M441102A-1	1	AC	X	
	41-3	10036660	SPRING/BATTERY	M441099A-1	2	AC	X	
	41-4	10036661	SPRING/BATTERY	M441100A-1	2	AC	X	
	42	10025065	PLATE/LOWER/A	M341268-1	1	AM	X	
	43	10025066	PLATE/LOWER/B	M241302-1	2	AP	X	
<b>Accessory</b>								
N	-	10229891	AC ADAPTOR	AD-12UL-TC3(D)	1		C	For US
N	-	10247805	STAND/MUSIC	M141071-006V01	1		X	
	-	10055632	BATTERY	GP13A0-9S2	3	BG	C	Except EU/US
N	-	10247806	LABEL/RATING	M341007-062V01	1		X	
N	-	10248108	CD ROM	IDES50CDROMWL1A	1		C	

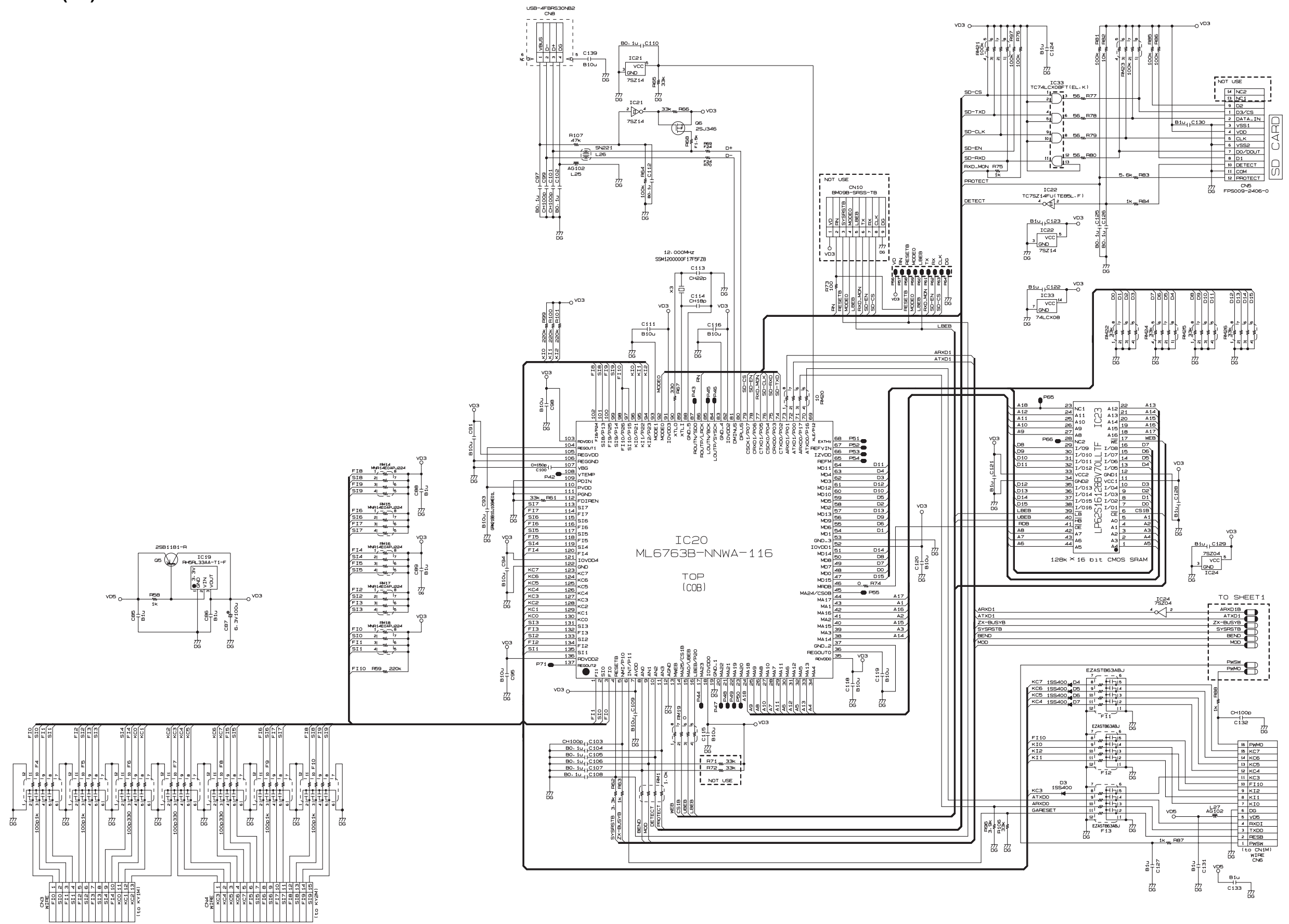
Notes : Q - Quantity per unit  
R - Rank

# SCHEMATIC DIAGRAMS

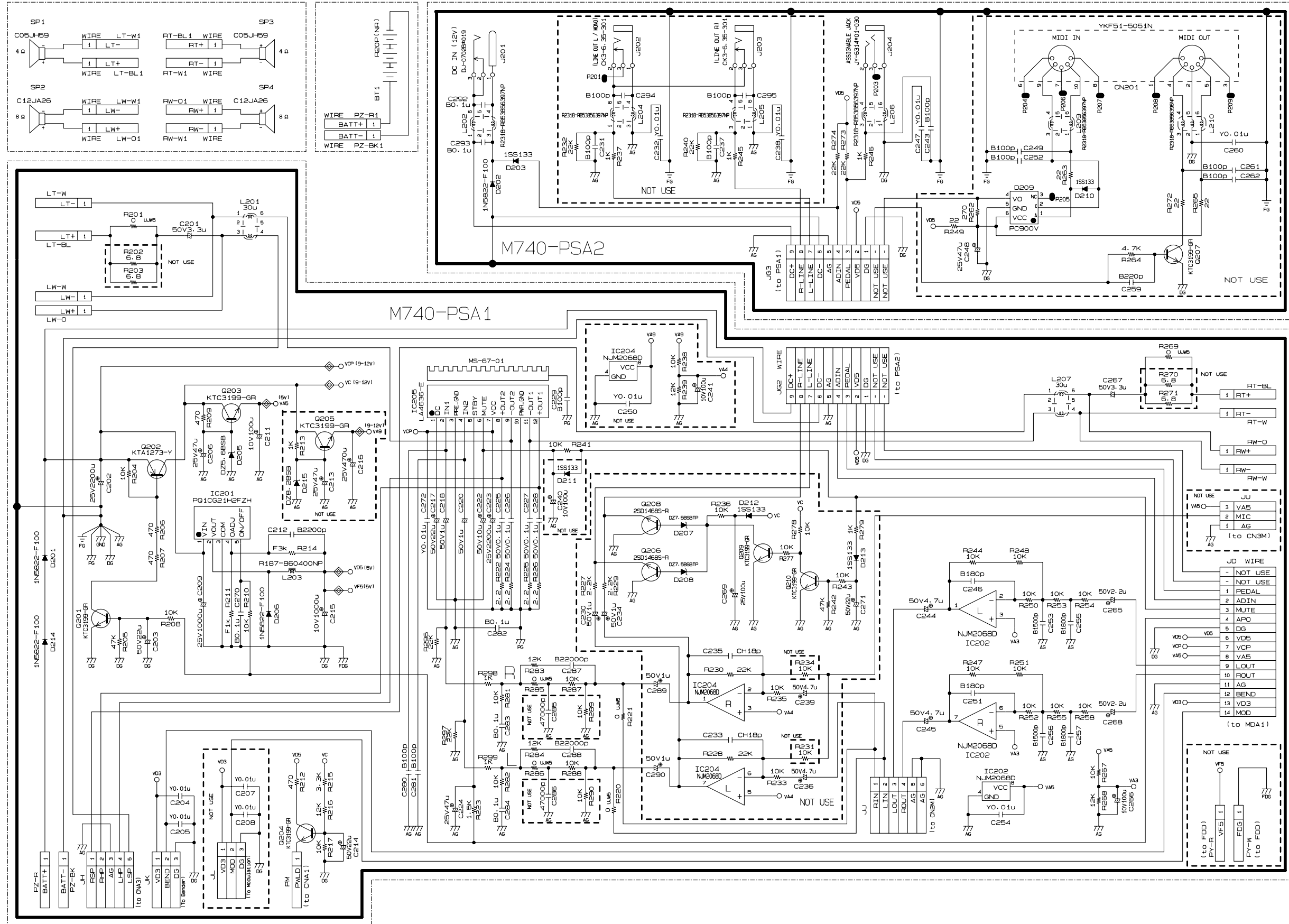
## MAIN PCB M740-MDA1 (1/2)



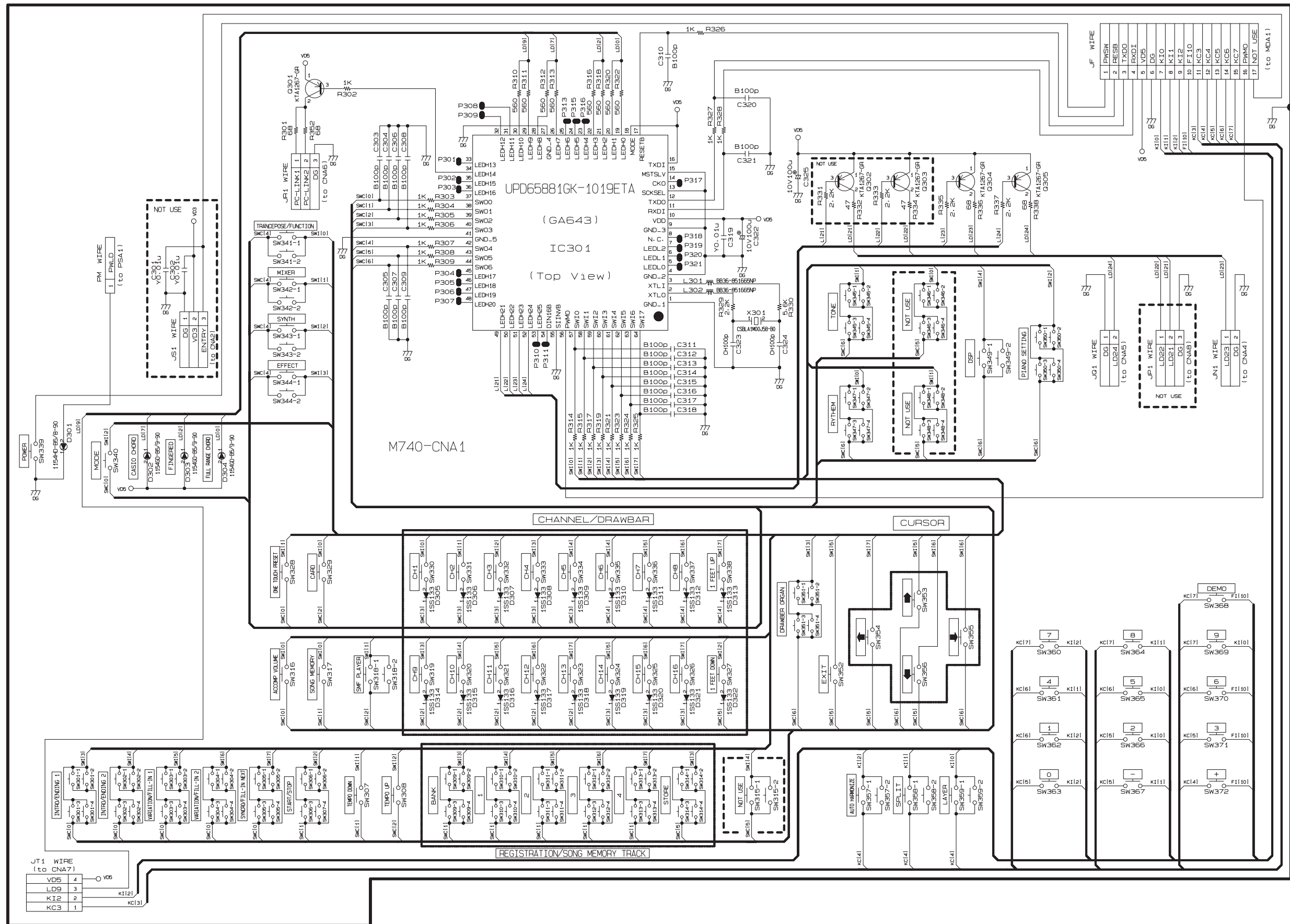
# MAIN PCB M740-MDA1 (2/2)



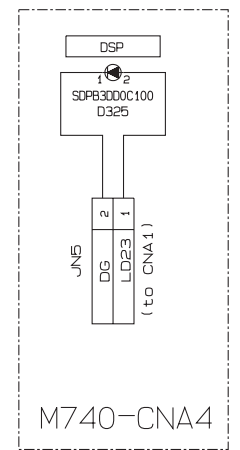
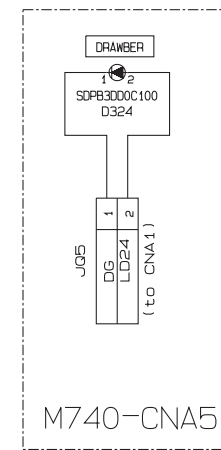
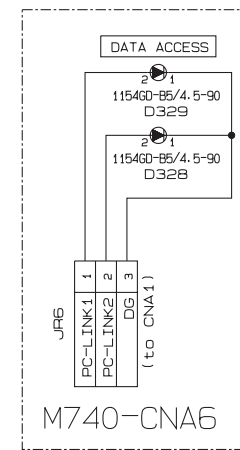
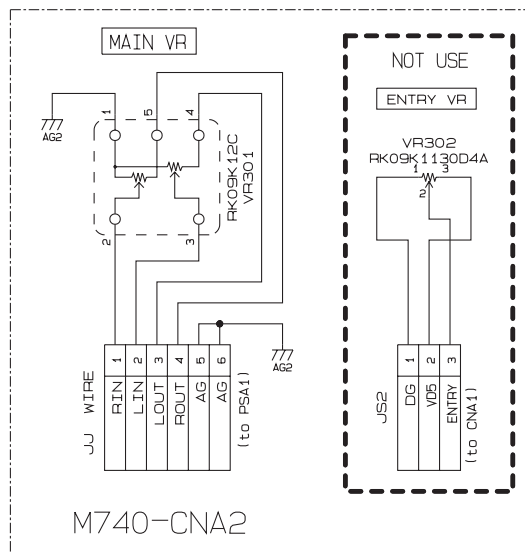
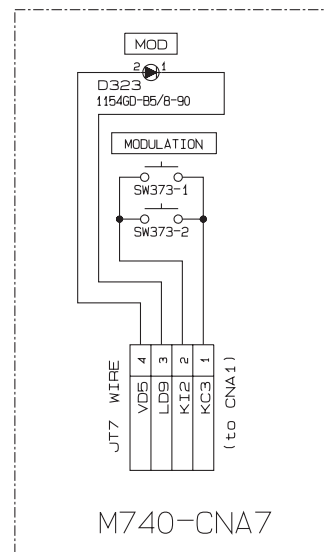
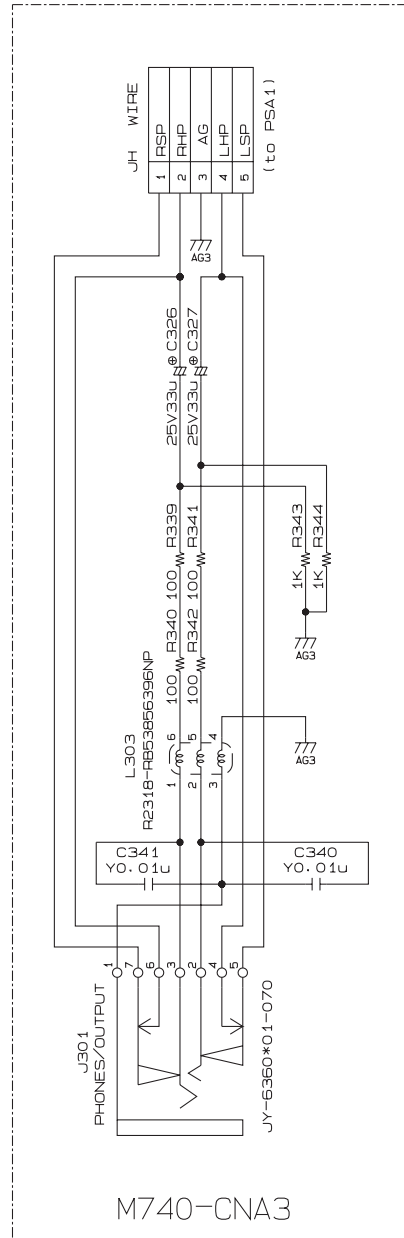
SUB PCBs M740-PSA1/PSA2



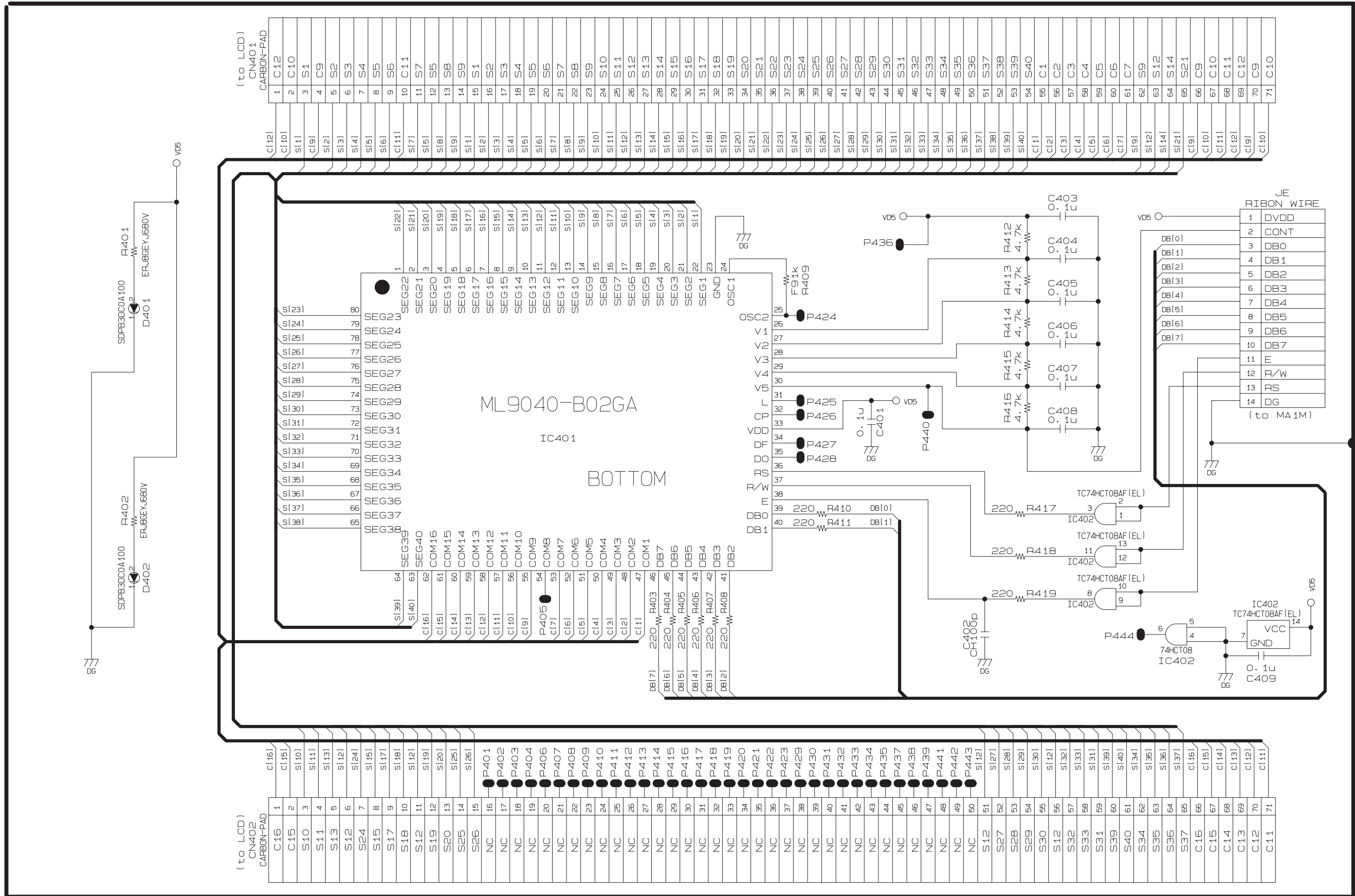
CONSOLE PCB M740-CNA1



CONSOLE PCBs M740-CNA2/CNA3/CNA4/CNA5/CNA6/CNA7



DISPLAY PCB M734-LCD1M





KEYBOARD PCBs M764T-KY1M/KY2M

NOTE

▶ 1SS133T-77

E1	SMB02	E1	D901	KC1
F1	SMB03	F1	D902	KC2
F1#	SMB05	F1#	D905	KC3
G1	SMB07	G1	D907	KC4
G1#	SMB09	G1#	D909	KC5
A1	SMB10	A1	D910	KC6
A1#	SMB12	A1#	D912	KC7
B1	SMB14	B1	D914	KC8
C2	SMB16	C2	D916	KC9
C2#	SMB18	C2#	D918	KC0
D2	SMB20	D2	D920	KC1
D2#	SMB22	D2#	D922	KC2
E2	SMB24	E2	D924	KC3
F2	SMB26	F2	D926	KC4
F2#	SMB28	F2#	D928	KC5
G2	SMB30	G2	D930	KC6
G2#	SMB32	G2#	D932	KC7
A2	SMB34	A2	D934	KC8
A2#	SMB36	A2#	D936	KC9
B2	SMB38	B2	D938	KC0
C3	SMB40	C3	D940	KC1
C3#	SMB42	C3#	D942	KC2
D3	SMB44	D3	D944	KC3
D3#	SMB46	D3#	D946	KC4
E3	SMB48	E3	D948	KC5
F3	SMB50	F3	D950	KC6
F3#	SMB52	F3#	D952	KC7
G3	SMB54	G3	D954	KC8
G3#	SMB56	G3#	D956	KC9
A3	SMB58	A3	D958	KC0
A3#	SMB60	A3#	D960	KC1
B3	SMB62	B3	D962	KC2
B3#	SMB64	B3#	D964	KC3
C4	SMB66	C4	D966	KC4
C4#	SMB68	C4#	D968	KC5
D4	SMB70	D4	D970	KC6
D4#	SMB72	D4#	D972	KC7
E4	SMB74	E4	D974	KC8
F4	SMB76	F4	D976	KC9
F4#	SMB78	F4#	D978	KC0
G4	SMB80	G4	D980	KC1
G4#	SMB82	G4#	D982	KC2
A4	SMB84	A4	D984	KC3
A4#	SMB86	A4#	D986	KC4
B4	SMB88	B4	D988	KC5
B4#	SMB90	B4#	D990	KC6
C5	SMB92	C5	D992	KC7
C5#	SMB94	C5#	D994	KC8
D5	SMB96	D5	D996	KC9
D5#	SMB98	D5#	D998	KC0
E5	SMB99	E5	D999	KC1
F5	SMB99	F5	D999	KC2
F5#	SMB99	F5#	D999	KC3
G5	SMB99	G5	D999	KC4
G5#	SMB99	G5#	D999	KC5
A5	SMB99	A5	D999	KC6
A5#	SMB99	A5#	D999	KC7
B5	SMB99	B5	D999	KC8
B5#	SMB99	B5#	D999	KC9
C6	SMB99	C6	D999	KC0
C6#	SMB99	C6#	D999	KC1
D6	SMB99	D6	D999	KC2
D6#	SMB99	D6#	D999	KC3
E6	SMB99	E6	D999	KC4
F6	SMB99	F6	D999	KC5
F6#	SMB99	F6#	D999	KC6
G6	SMB99	G6	D999	KC7
G6#	SMB99	G6#	D999	KC8
A6	SMB99	A6	D999	KC9
A6#	SMB99	A6#	D999	KC0
B6	SMB99	B6	D999	KC1
B6#	SMB99	B6#	D999	KC2
C7	SMB99	C7	D999	KC3
C7#	SMB99	C7#	D999	KC4
D7	SMB99	D7	D999	KC5
D7#	SMB99	D7#	D999	KC6
E7	SMB99	E7	D999	KC7
F7	SMB99	F7	D999	KC8
F7#	SMB99	F7#	D999	KC9
G7	SMB99	G7	D999	KC0

M764T-KY1M

JOINER	
JA	
F10	K06
F11	K07
F12	K08
F13	K09
F14	K10
F15	K11
F16	K12
F17	K13
F18	K14
F19	K15
F20	K16

JOINER	
JC1	
K01	K00
K02	K01
K03	K02
K04	K03
K05	K04
K06	K05
K07	K06
K08	K07
K09	K08
K10	K09

NOTE

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G4	SMB79	G4	D979	K00
G4#	SMB81	G4#	D981	K01
A4	SMB83	A4	D983	K02
A4#	SMB85	A4#	D985	K03
B4	SMB87	B4	D987	K04
B4#	SMB89	B4#	D989	K05
C5	SMB91	C5	D991	K06
C5#	SMB93	C5#	D993	K07
D5	SMB95	D5	D995	K08
D5#	SMB97	D5#	D997	K09
E5	SMB99	E5	D999	K10
F5	SMB99	F5	D999	K11
F5#	SMB99	F5#	D999	K12
G5	SMB99	G5	D999	K13
G5#	SMB99	G5#	D999	K14
A5	SMB99	A5	D999	K15
A5#	SMB99	A5#	D999	K16
B5	SMB99	B5	D999	K17
B5#	SMB99	B5#	D999	K18
C6	SMB99	C6	D999	K19
C6#	SMB99	C6#	D999	K20
D6	SMB99	D6	D999	K21
D6#	SMB99	D6#	D999	K22
E6	SMB99	E6	D999	K23
F6	SMB99	F6	D999	K24
F6#	SMB99	F6#	D999	K25
G6	SMB99	G6	D999	K26
G6#	SMB99	G6#	D999	K27
A6	SMB99	A6	D999	K28
A6#	SMB99	A6#	D999	K29
B6	SMB99	B6	D999	K30
B6#	SMB99	B6#	D999	K31
C7	SMB99	C7	D999	K32
C7#	SMB99	C7#	D999	K33
D7	SMB99	D7	D999	K34
D7#	SMB99	D7#	D999	K35
E7	SMB99	E7	D999	K36
F7	SMB99	F7	D999	K37
F7#	SMB99	F7#	D999	K38
G7	SMB99	G7	D999	K39

M764T-KY2M

JOINER	
JC2	
K01	K00
K02	K01
K03	K02
K04	K03
K05	K04
K06	K05
K07	K06
K08	K07
K09	K08
K10	K09

JOINER	
JB	
K01	K00
K02	K01
K03	K02
K04	K03
K05	K04
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K99	K98
K00	K99

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