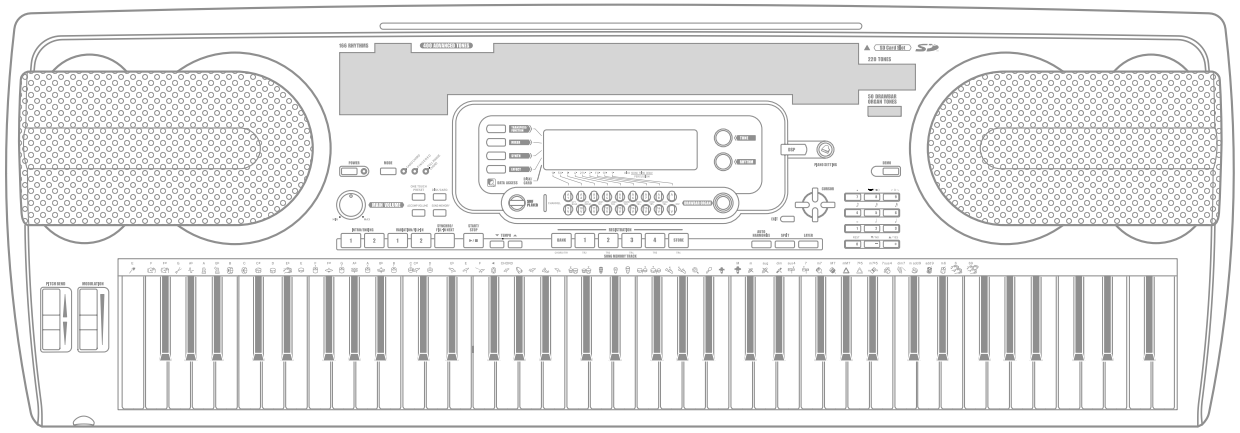
CASIO®

Service Manual

(without price)

WK-3800

JUL. 2006



WK-3800

ELECTRONIC KEYBOARD

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CONTENTS

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:v 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	Malibu Sun	TECH-NOTE INTERNATIONAL LTD.
1	Island Dusk	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

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, 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
Floppy Disk Drive	
Type:	3.5" FDD
Formats:	2DD (720KB MS-DOS format) 2HD (1.44MB MS-DOS format)
Functions:	Save and load of user tones, user songs, and registration data; playback of SMF; disk 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)
Headphones:	Stereo standard jack Output Impedance : 200Ω Output Voltage : 250mV (RMS) MAX
Line Out (R, L/MONO):	Standard jack × 2 Output Impedance : 3kΩ Output Voltage : 1.5V (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 × 42.3 × 16.0cm (48 $^{3}/_{16}$ × 16 $^{11}/_{16}$ × 6 $^{5}/_{16}$ 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 = 1024^2 bytes.

ELECTRICAL

Current drain with 12 V DC:

Consumption Current	1770 mA ± 20 %
Consumption Current at idle with 12 keys from F3 to E4 pressed in 479 Ocarinag + LAYER Volume: maximum, Velocity: maximum	290 mA ± 20 %

Speaker output level (Vrms with 8 Ω load each channel):

with key L(E1)/R(G1) in 479 Ocarinag Volume: maximun, Velocity: maximum	L: 5400 mV ± 20 % R: 5200 mV ± 20 %

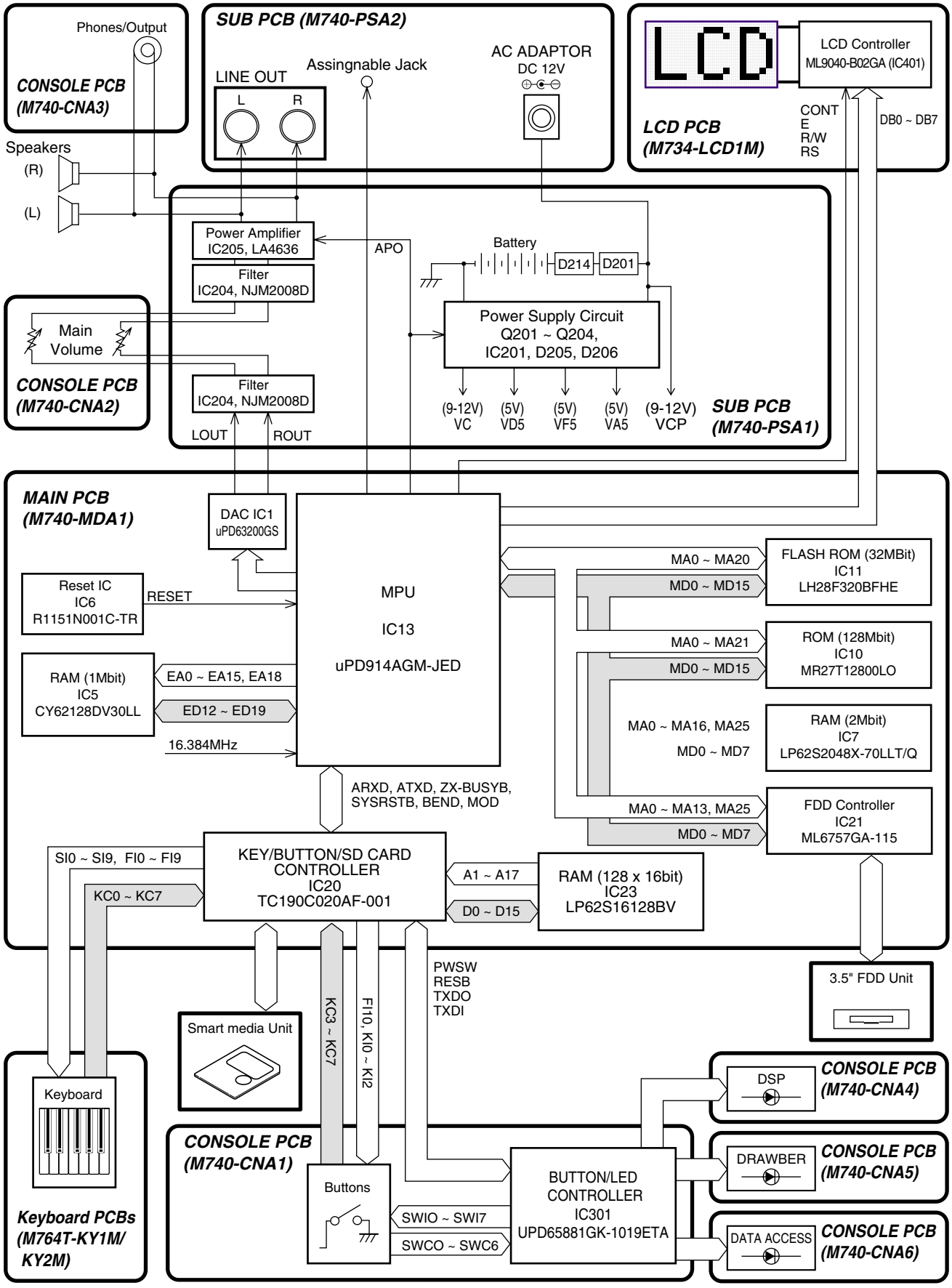
Phone output level (Vrms with 32 Ω load each channel):

with key L(E7)/R(G7) in 479 Ocarinag Volume: maximun, Velocity: maximum	L: 370 mV ± 20 % R: 380 mV ± 20 %

Line Output level (Vrms with 47 KΩ load each channel):

with key L(D4)/R(B5) in 479 Ocarinag Volume: maximun, Velocity: maximum	L: 380 mV ± 20 % R: 380 mV ± 20 %

BLOCK DIAGRAM

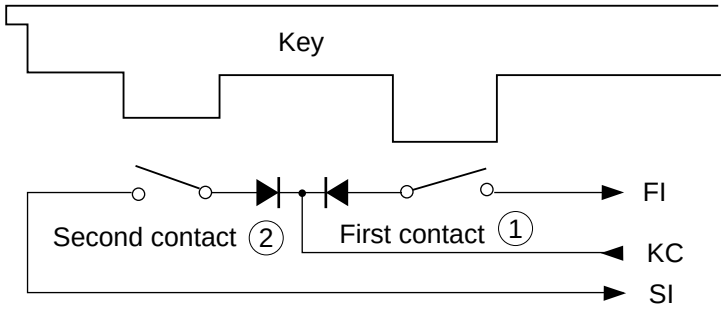


CIRCUIT DESCRIPTION

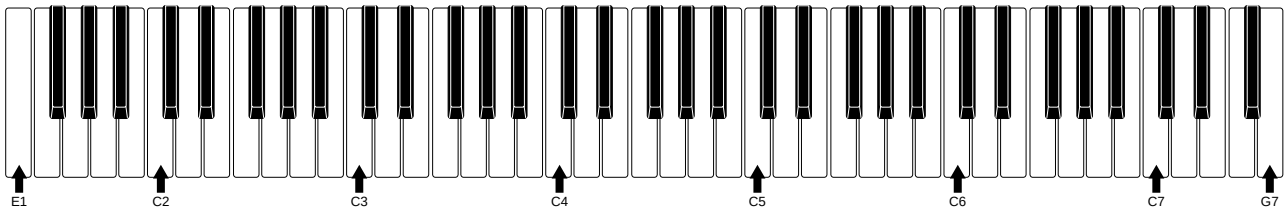
KEY MATRIX

	KC0	KC1	KC2	KC3	KC4	KC5	KC6	KC7
FI0		E1①	F1①	F#1①	G1①	G#1①	A1①	A#1①
SI0		E1②	F1②	F#1②	G1②	G#1②	A1②	A#1②
FI1	B1①	C2①	C#2①	D2①	D#2①	E2①	F2①	F#2①
SI1	B1②	C2②	C#2②	D2②	D#2②	E2②	F2②	F#2②
FI2	G2①	G#2①	A2①	A#2①	B2①	C3①	C#3①	D3①
SI2	G2②	G#2②	A2②	A#2②	B2②	C3②	C#3②	D3②
FI3	D#3①	E3①	F3①	F#3①	G3①	G#3①	A3①	A#3①
SI3	D#3②	E3②	F3②	F#3②	G3②	G#3②	A3②	A#3②
FI4	B3①	C4①	C#4①	D4①	D#4①	E4①	F4①	F#4①
SI4	B3②	C4②	C#4②	D4②	D#4②	E4②	F4②	F#4②
FI5	G4①	G#4①	A4①	A#4①	B4①	C5①	C#5①	D5①
SI5	G4②	G#4②	A4②	A#4②	B4②	C5②	C#5②	D5②
FI6	D#5①	E5①	F5①	F#5①	G5①	G#5①	A5①	A#5①
SI6	D#5②	E5②	F5②	F#5②	G5②	G#5②	A5②	A#5②
FI7	B5①	C6①	C#6①	D6①	D#6①	E6①	F6①	F#6①
SI7	B5②	C6②	C#6②	D6②	D#6②	E6②	F6②	F#6②
FI8	G6①	G#6①	A6①	A#6①	B6①	C7①	C#7①	D7①
SI8	G6②	G#6②	A6②	A#6②	B6②	C7②	C#7②	D7②
FI9	D#7①	E7①	F7①	F#7①	G7①			
SI9	D#7②	E7②	F7②	F#7②	G7②			

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



NOMENCLATURE OF KEYS



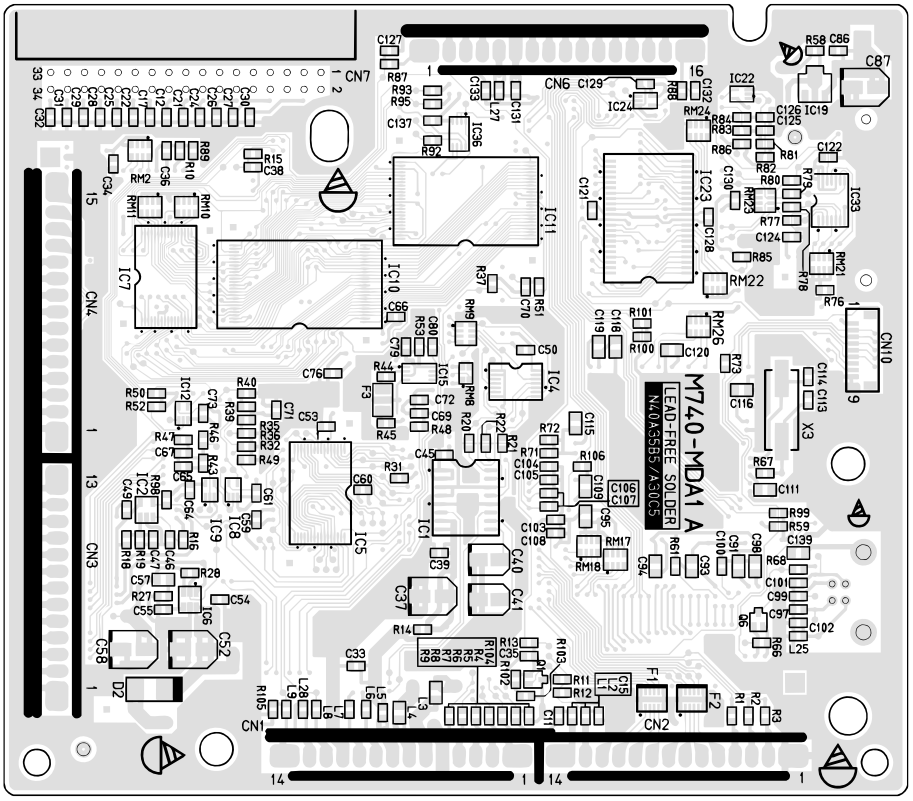
BUTTON MATRIX

	KI0	KI1	KI2	FI10
KC4	LAYER	SPLIT	AUTO HARMONIZE	+
KC5	2	–	0	3
KC6	5	4	1	6
KC7	9	8	7	DEMO

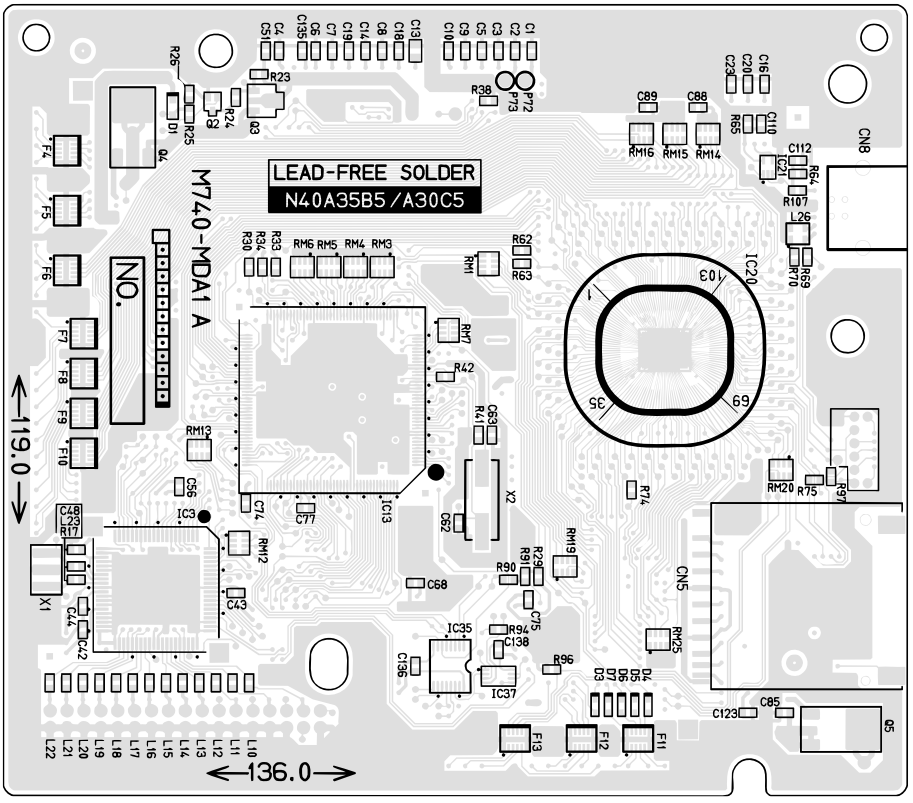
	SWI0	SWI1	SWI2	SWI3	SWI4	SWI5	SWI6	SWI7
SWC0	ACCOMP VOLUME	ONE TOUCH PRESET	MODE	INTRO/ ENDING 1	INTRO/ ENDING 2	VARIATION/ FILL-IN 1	VARIATION/ FILL-IN 2	SYNCRO/ FILL-IN NEXT
SWC1	SONG MEMORY	TEMPO DOWN	START/ STOP	BANK	REGISTRATION/SONG MEMORY TRACK			
					1	2	3	4
SWC2	CARD	SMF PLAYER	TEMPO UP	CH9	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

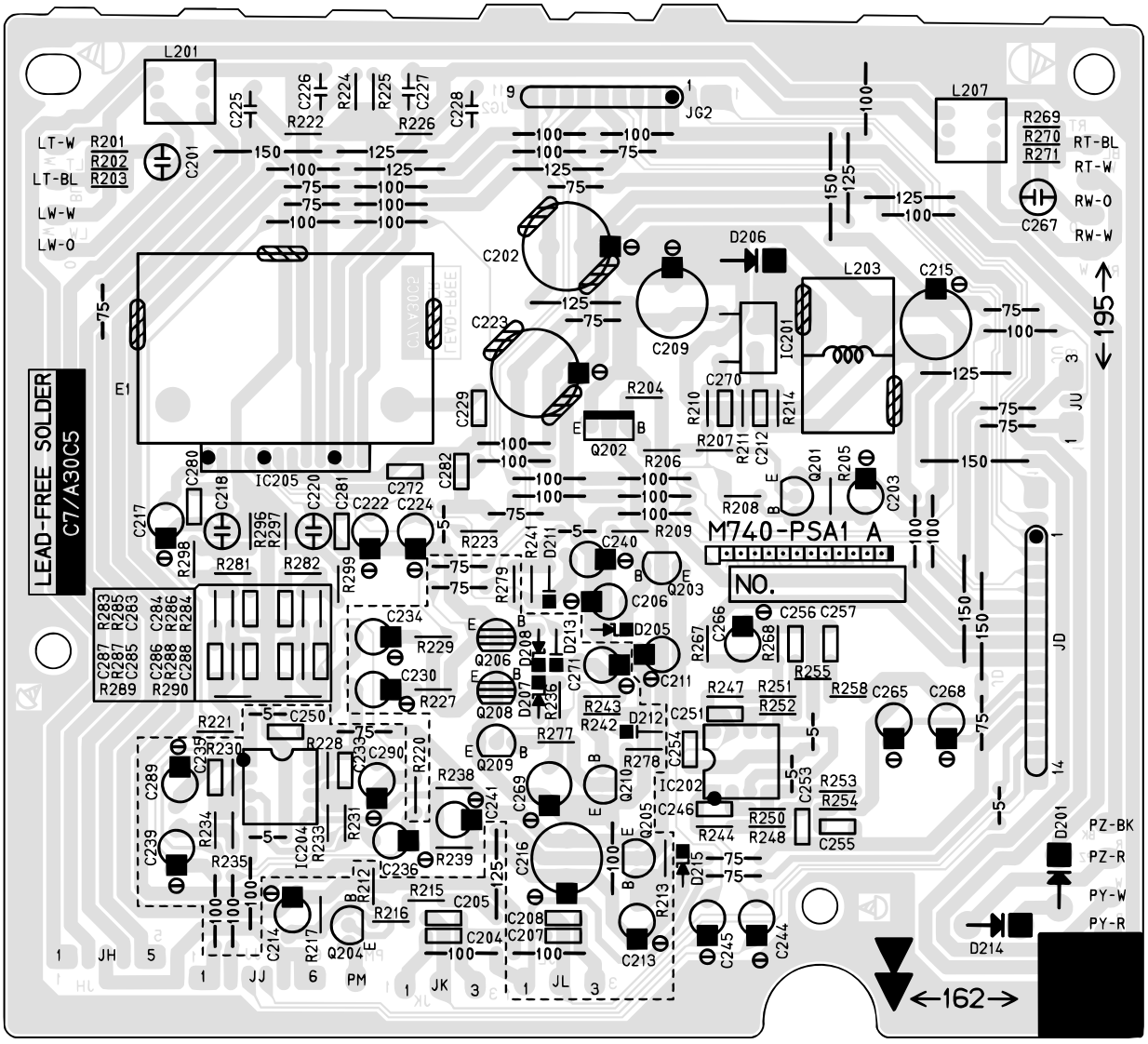


Top View



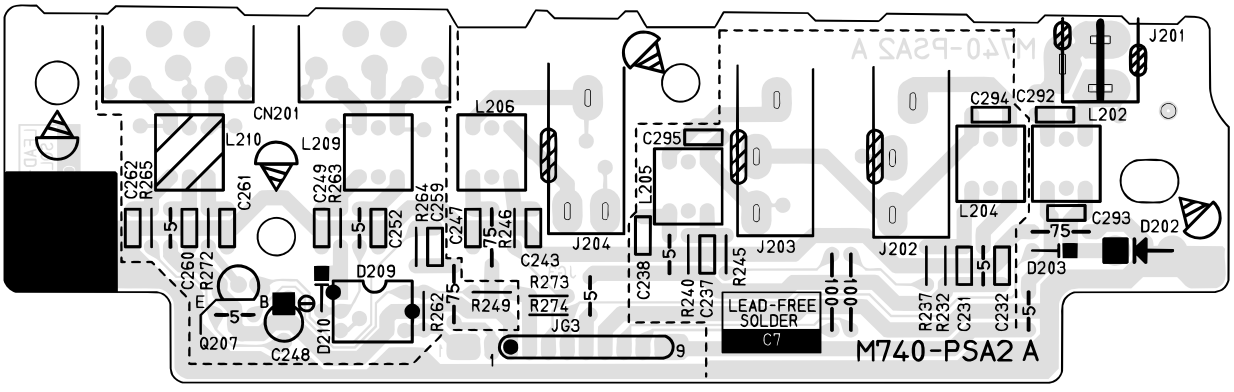
Bottom View

SUB PCB M740-PSA1



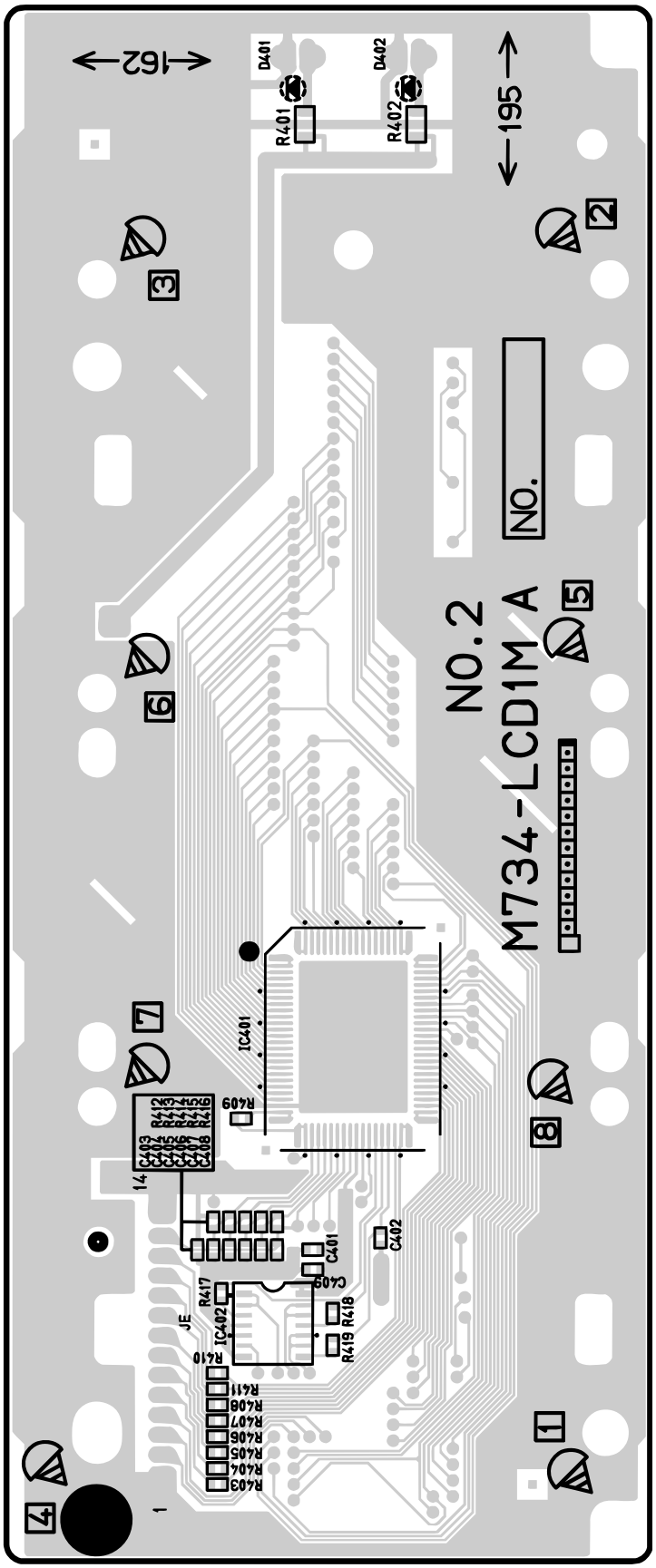
Top View

SUB PCB M740-PSA2



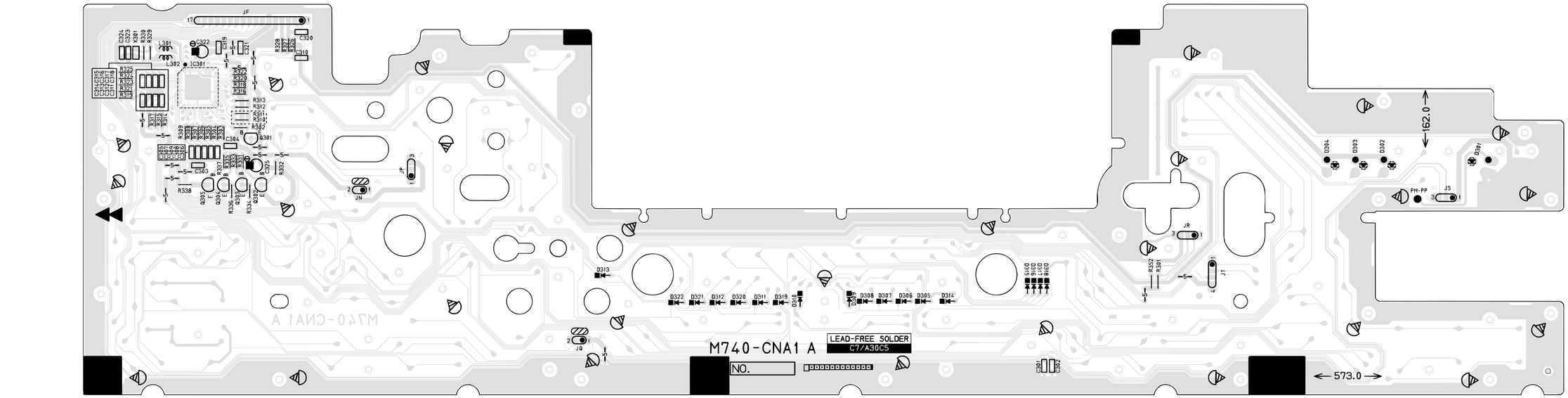
Top View

DISPLAY PCB M734-LCD1M

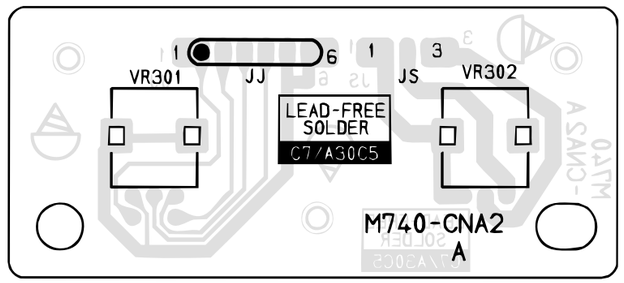


Top View

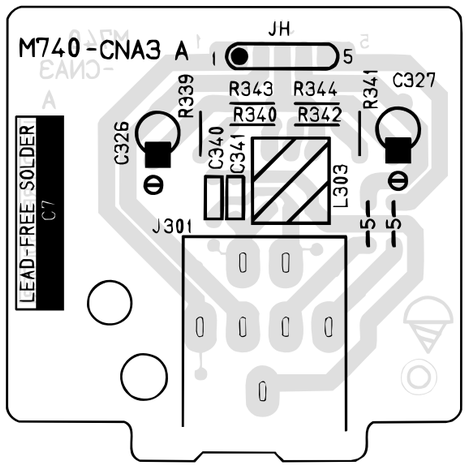
CONSOLE PCB M740-CNA1



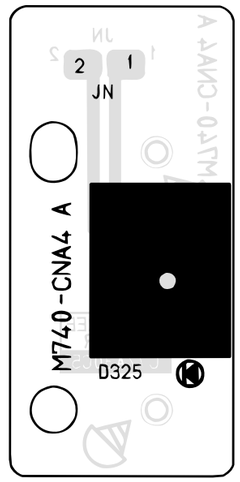
CONSOLE PCB M740-CNA2



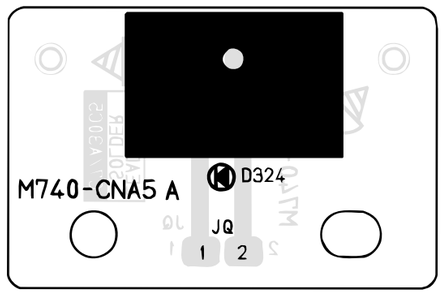
CONSOLE PCB M740-CNA3



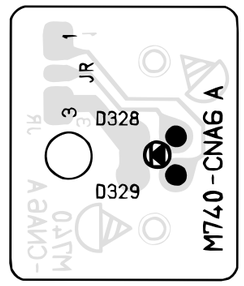
CONSOLE PCB M740-CNA4



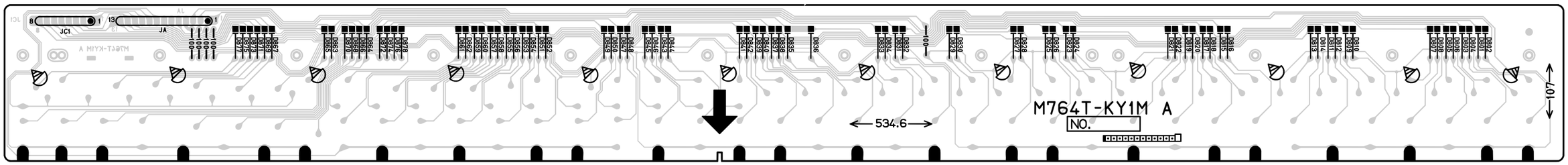
CONSOLE PCB M740-CNA5



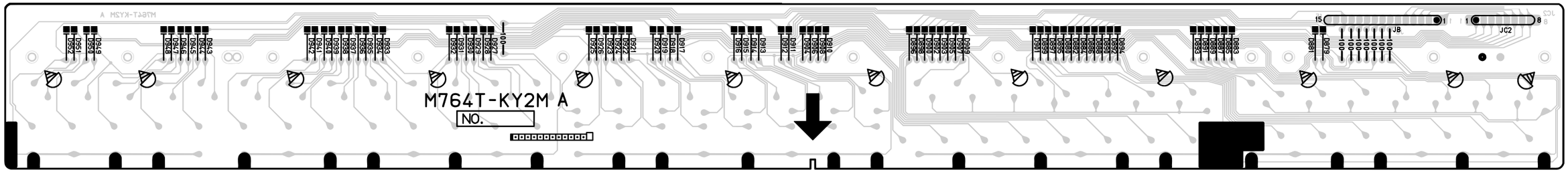
CONSOLE PCB M740-CNA6



KEYBORD PCB M764T-KY1M



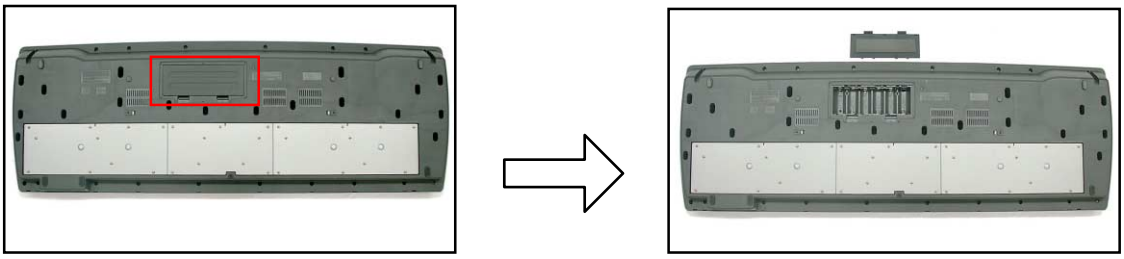
KEYBORD PCB M764T-KY2M



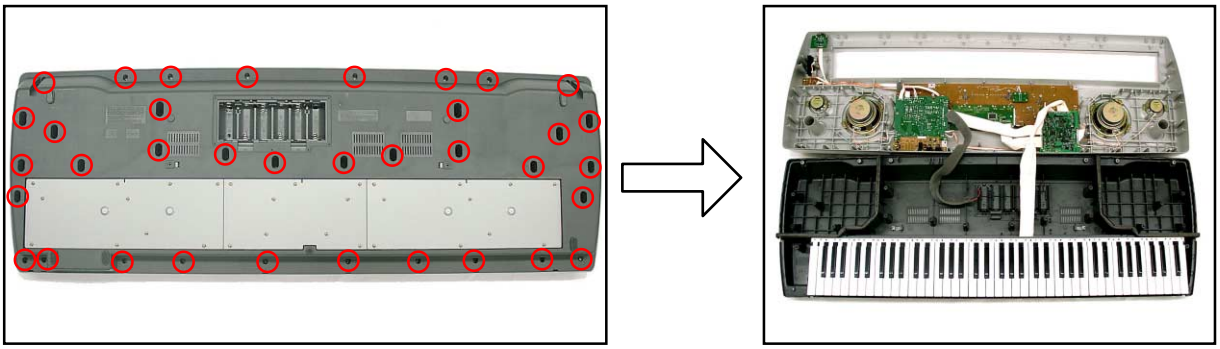
DISASSEMBLY

■ **The Disassembly Procedure inscribed on this manual is the same as that of WK-3200 since WK-3800 has almost the same frame as WK-3200.**

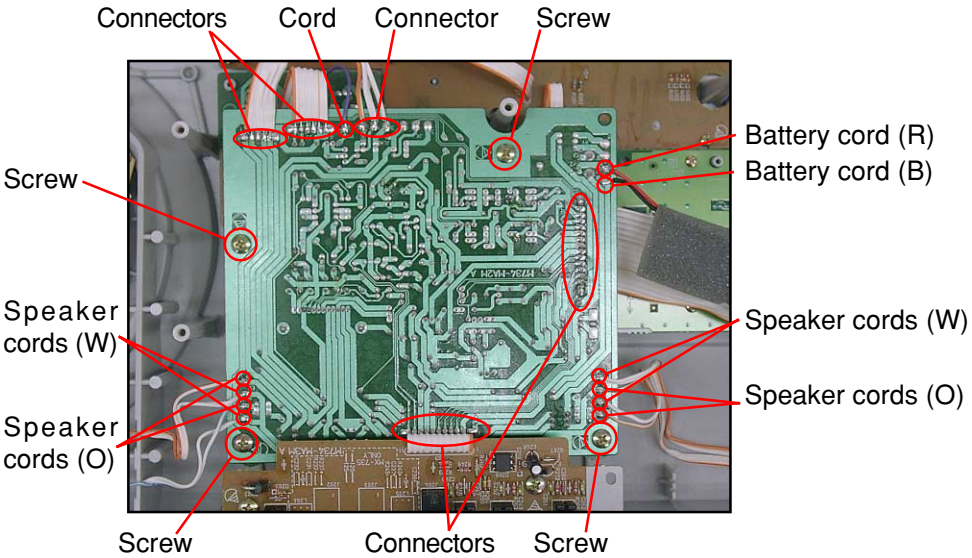
1. Remove the battery cover and then the battery.

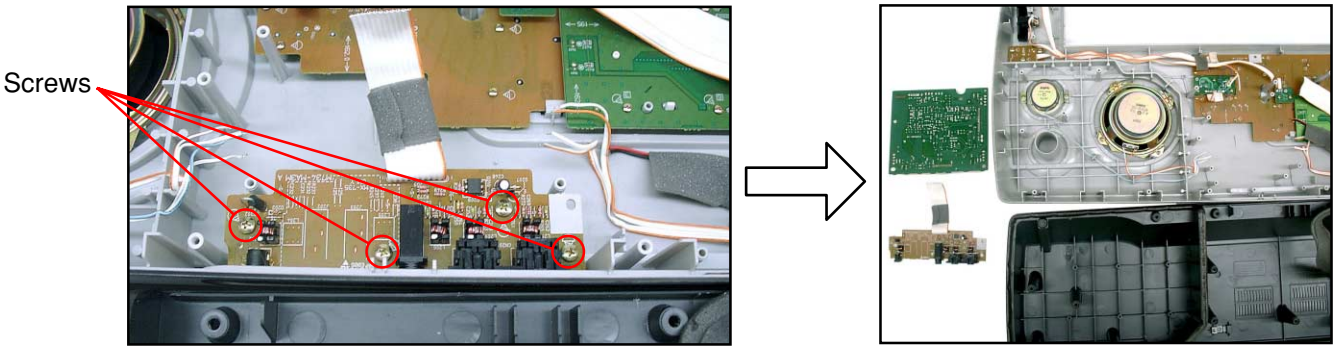


2. Remove 36 screws and then the upper case.

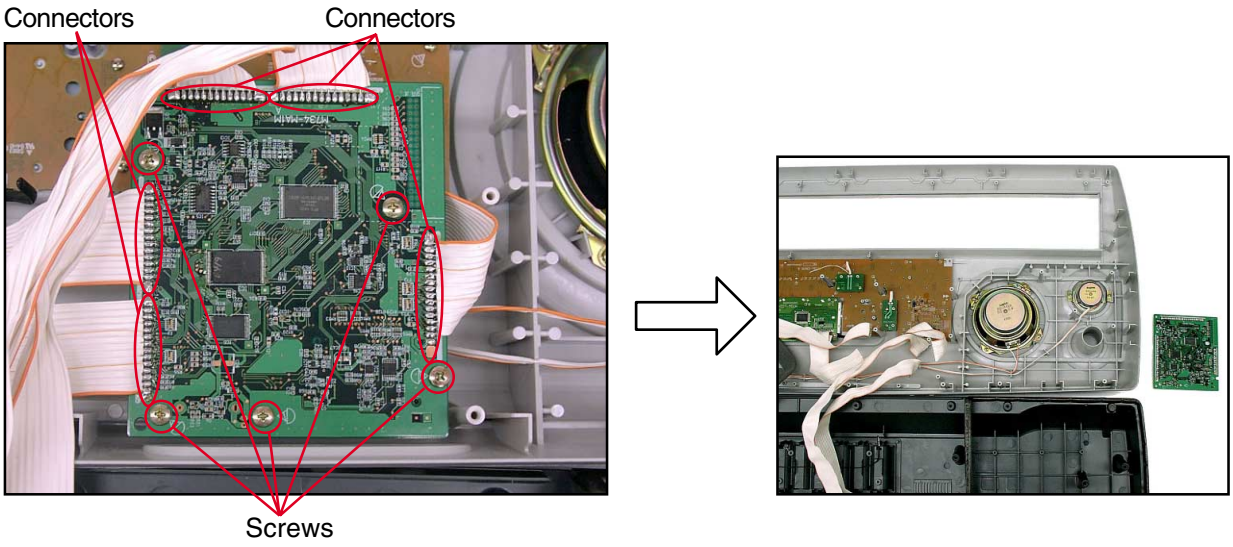


3. Remove 4 screws, 8 speaker cords, 2 battery cords, 1cord (PM), 5 connectors (JD, JG2, JH, JK, JJ) and then the PCB ASS'Y (MA2M).

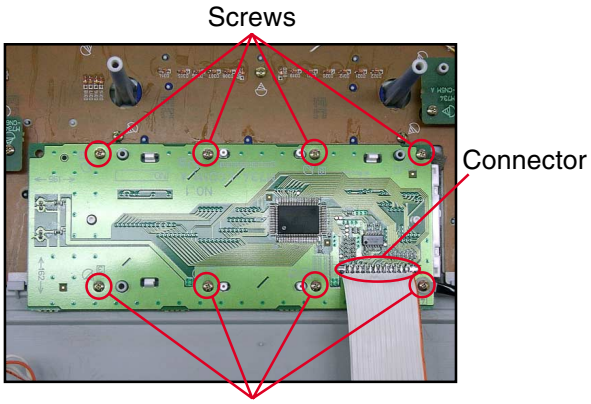


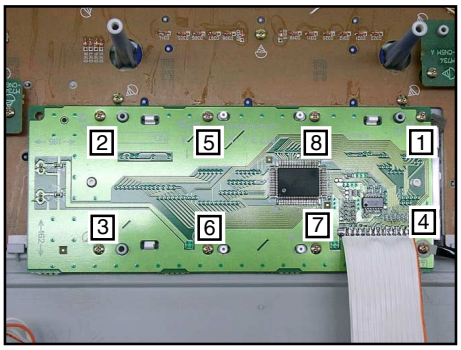


4. Remove 5 screws, 5 connectors (JA, JB, JD, JE, JF) and then the PCB ASS'Y (MA1M).



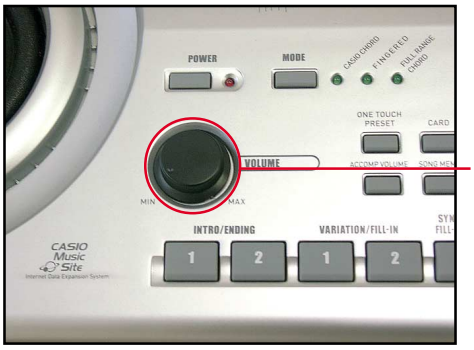
5. Remove 8 screws, 1 connector and then the LCD ASS'Y (LCD1M).



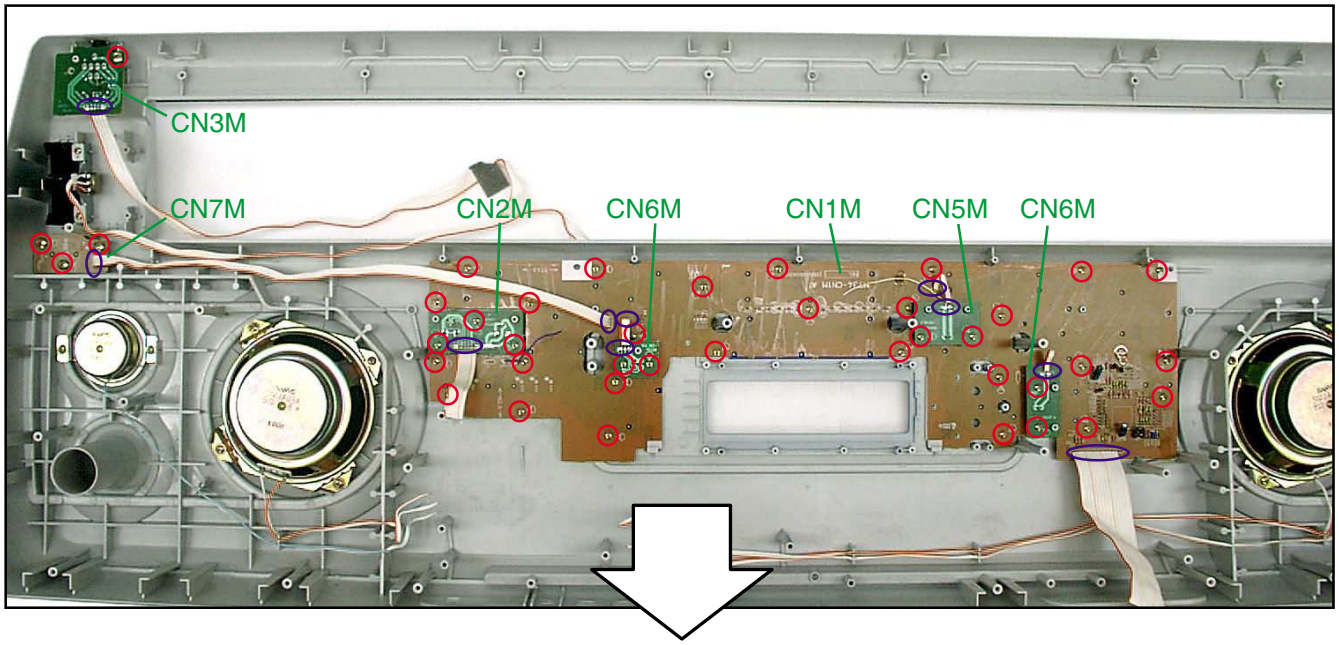


Note: Tighten the screws in the order from 1 to 8 when reassembling.

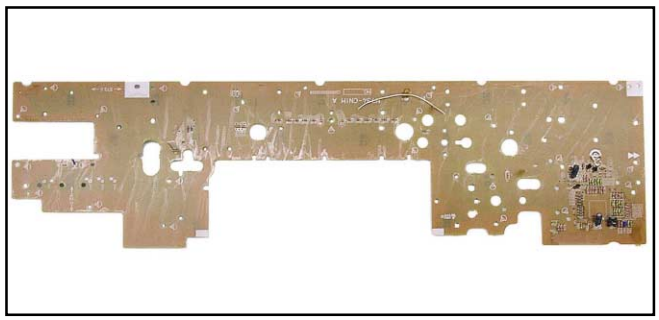
6. Remove the volume knob, screws, connectors and then the CN1, CN2, CN3, CN4, CN5, CN6, CN7.



Screws Connector



CN1M

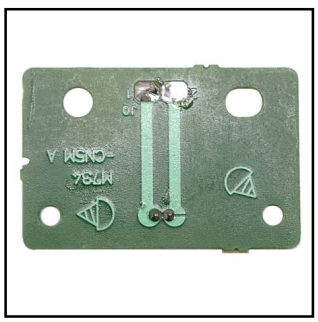


CN2M

CN3M

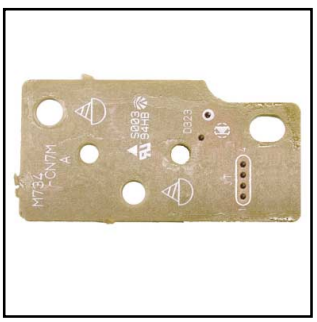
CN4M

CN5M

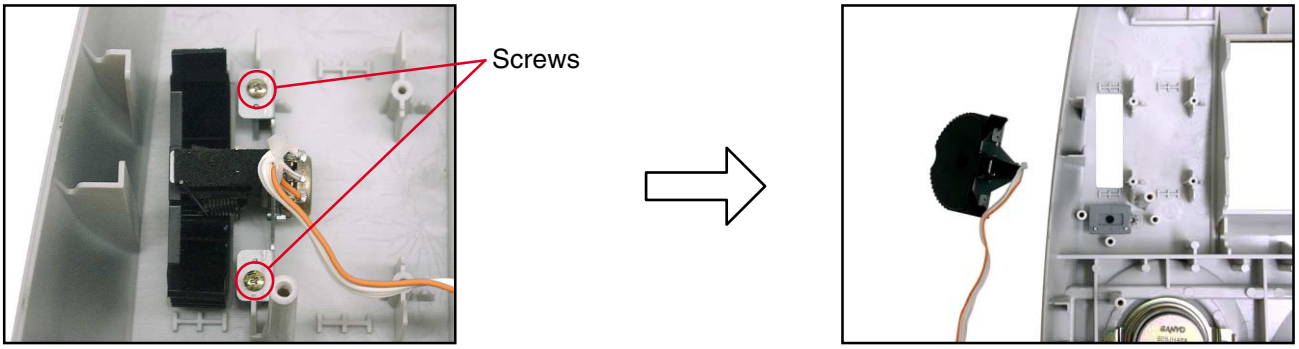


CN6M

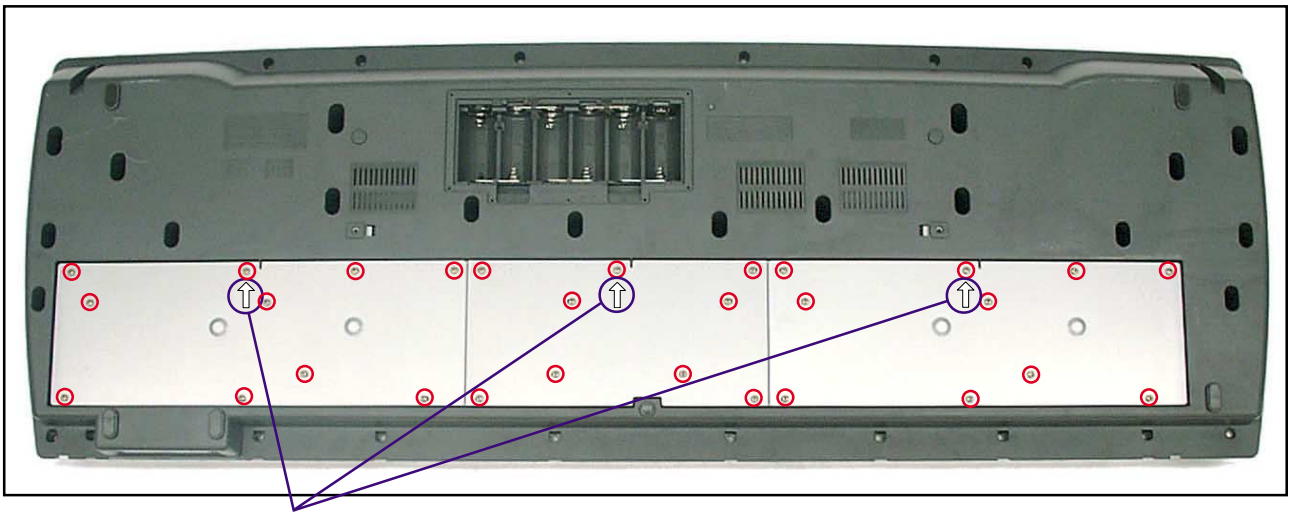
CN7M



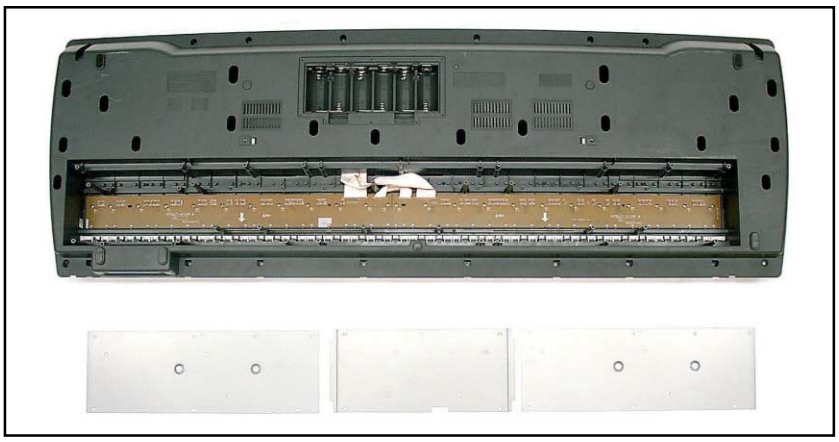
7. Remove 2 screws and then the Bender assy.



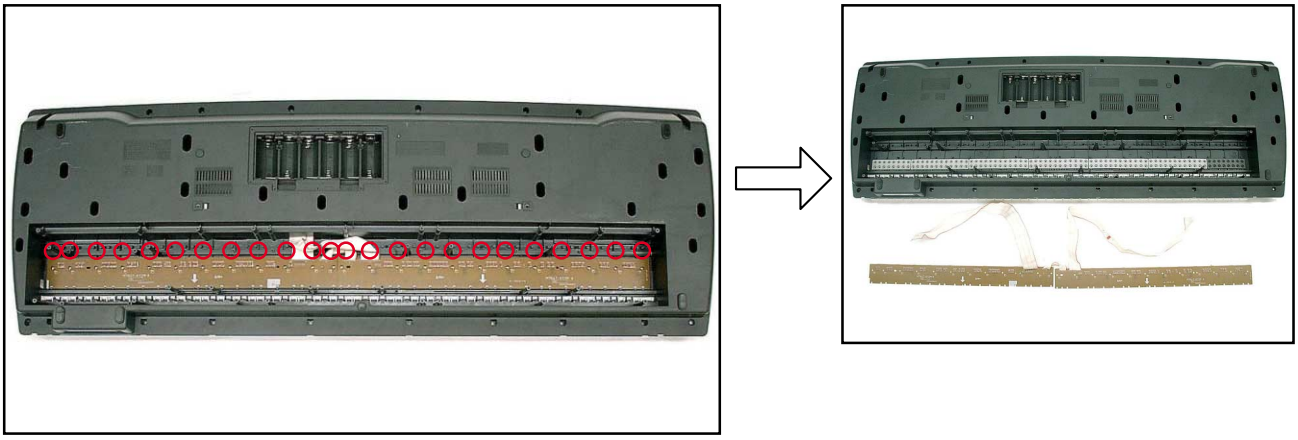
8. Remove 29 screws and then the lower case.



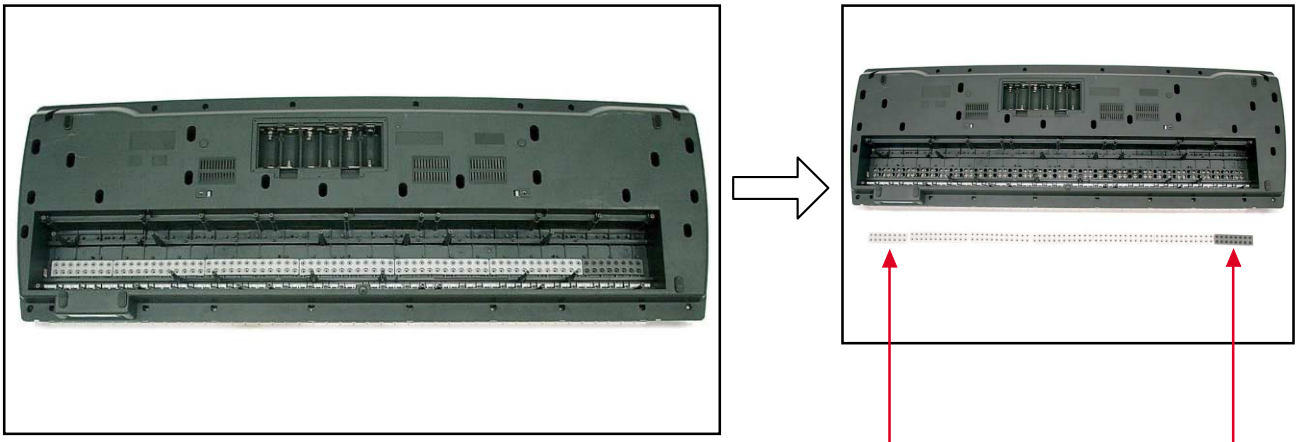
Note: Tighten the screw with the arrow mark in the figure first when reassembling.

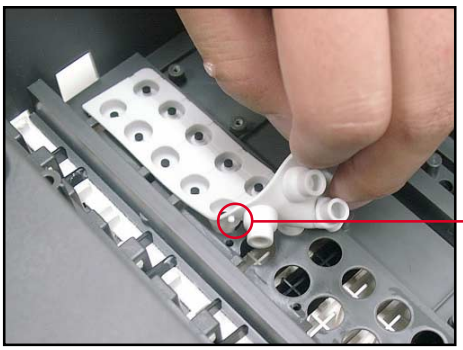


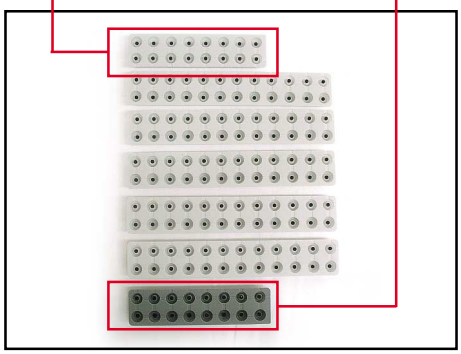
9. Remove 24 screws and then the PCB ASSY (KY1M, KY2M).



10. Remove the rubber keys.

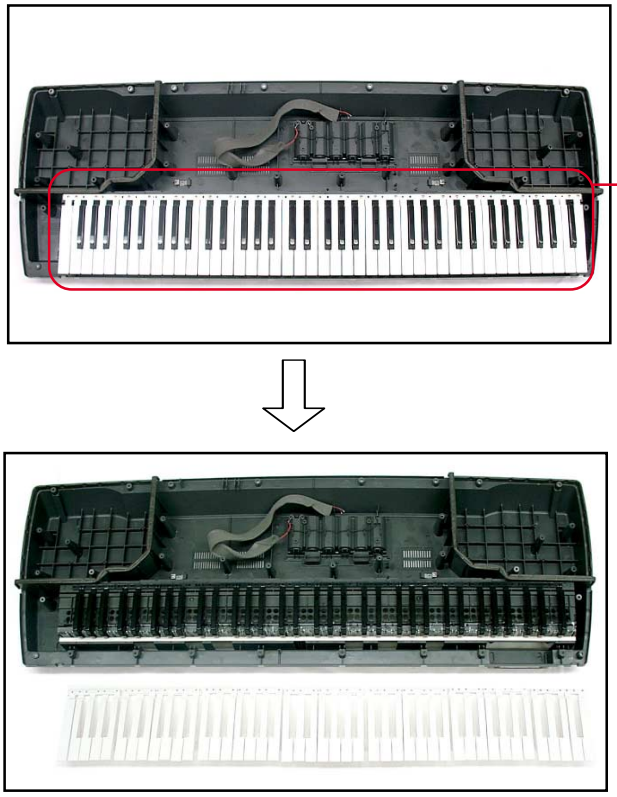






Note: Pay attention to the positions of the rubber keys as one of them has a different length.
Match the projections of the rubber keys with the holes of the lower case when reassembling.

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

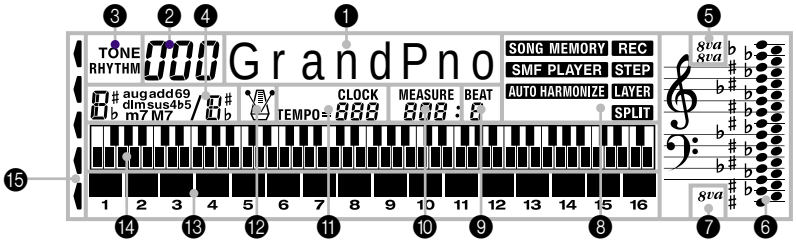
1. Connect an AC adaptor.
2. Connect a Sustain pedal.
3. "Main" volume: MAX.

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.
3. Release the “Cursor key UP” and “Cursor key Down” buttons. “TEST 741” appears on the LCD.

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



■ Diagnostic program

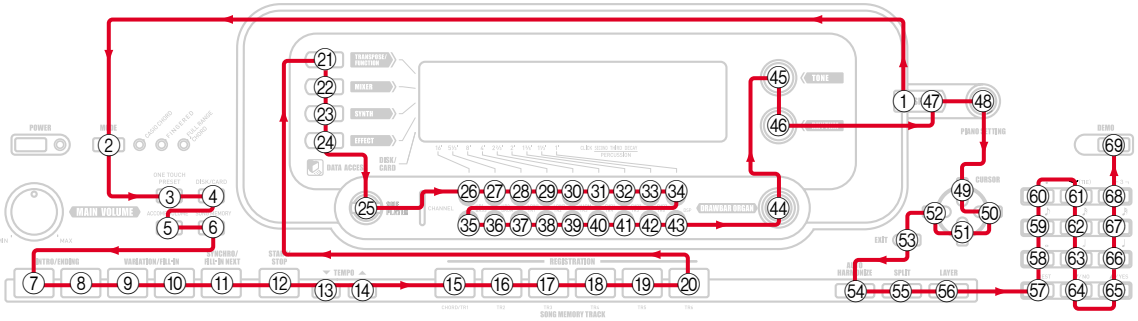
1. Button check

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 ❶.

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



2. AC adaptor detection check. — Message on LCD

① Press “TONE” button. — ❶ ACJ ON

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).

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

① Press “RHYTHM” button. — ❶ SUS CHK

② Press “Sustain pedal” . — ❶ SUS ON

③ Release “Sustain pedal” . — ❶ SUS OFF

④ NG sound, “OFF” sound this case, must be audible.

4. Low Voltage detection check.

① Press “DRAWBAR ORGAN” button. — ❶ VOLT HI

② OK sound must be audible.

5. Sound Source check

① Press “7” button. — ❶ TG MAX L

② The MAX sin sound sounds from Left spesker.

③ Press “8” button. — ❶ TG MAX C

④ The MAX sin sound sounds from Both spesker.

⑤ Press “9” button. — ❶ TG MAX R

⑥ The MAX sin sound sounds from Right spesker.

6. ROM check

① Press “INTRO/ENDING1” button. — ❶ ROM CHK ↓ ❶ ROM OK

7. Flash memory check

① Press “INTRO/ENDING2” button. — ❶ FMC CHK ↓ ❶ FMC OK

8. Flash memory SUM check

① Press “SONG MEMORY” button. — ❶ FMS CHK ↓ ❶ FMS 7898

9. DSP RAM check

① Press “VARIATION/FILL-IN 2” button — ❶ DRAM OK

10. CPU RAM check

① Press “SYNCHRO/FILL-IN NEXT” button. — ❶ CRAM OK

Message on LCD

11. LED check

① Press “TEMPO▼” button. ❶ LED CHK

② LEDs illuminate in the following order. ↓

FULL RANGE CHORD ↓

FINGERED ↓

CASIO CHORD ↓

DATA ACCESS ↓

DRAWBAR ORGAN ↓

DSP ↓

❶ LED END

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. ❶ SMC CHK

“Err NO CARD” appears and an NG sound sounds when no card is inserted. ↓

❶ CARD OK

14. FDD check (If no Floppy disc, this check can be skipped)

① Press “+” button. ❶ FDD CHK

“Err NO disc” appears and an NG sound sounds when no card is inserted. ↓

❷ Ab8

❶ DISK OK

15. Bender check

① Press “MODE” button. ❶ BEND CHK

② Turn the “PITCH BEND WHEEL” to MAX. ❷ 127

❶ BEND CHK

③ Turn the “PITCH BEND WHEEL” to MIN. ❷ 000

❶ BEND OK

16. Modulation check

① Press “ONE TOUCH PRESET” button. ❶ MOD CHK

② Turn the “MODULATION WHEEL” to MAX. ❷ 000

❶ MOD CHK

③ Turn the “MODULATION WHEEL” to MIN. ❷ 127

❶ MODW OK

17. 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.

18. APO check

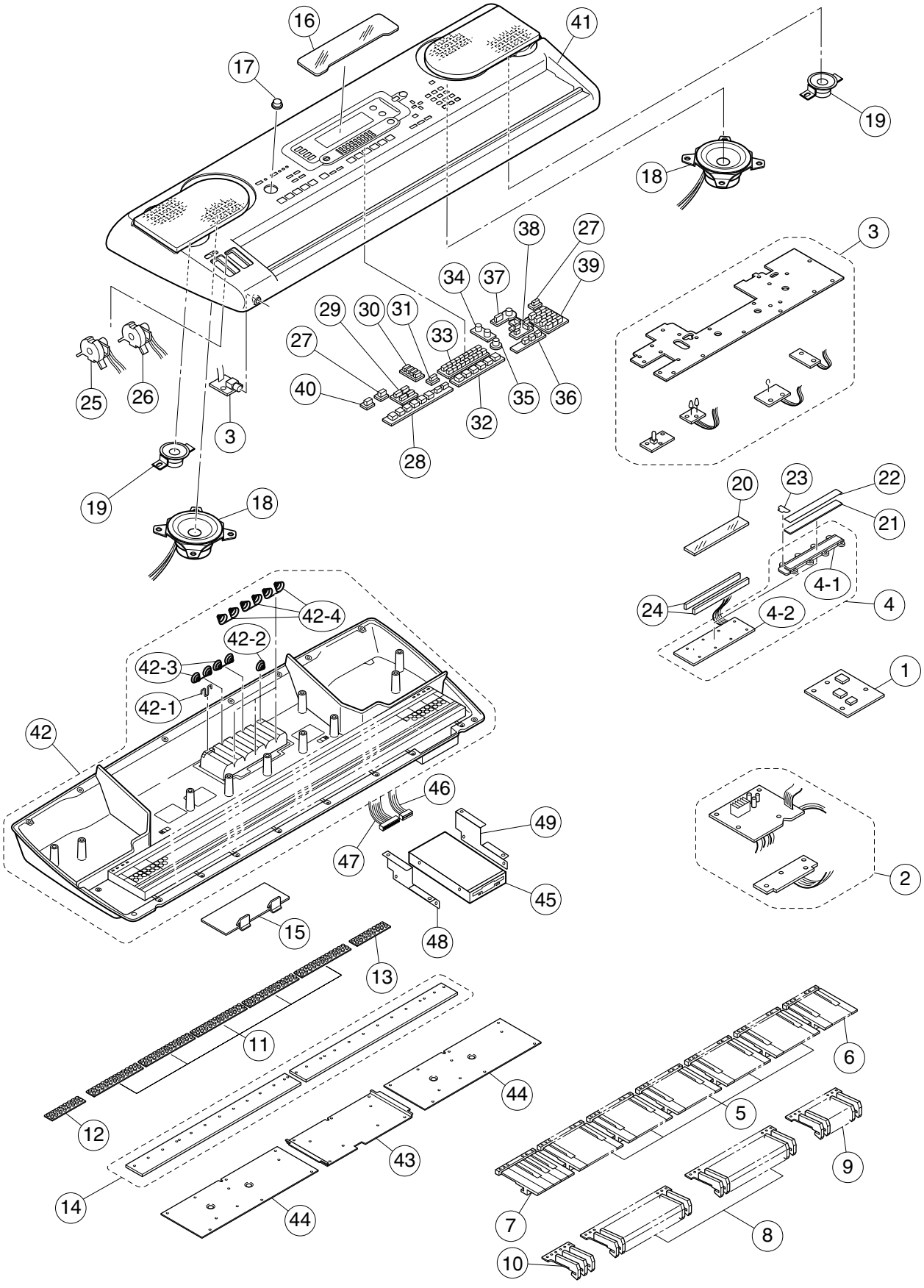
① Press “EXIT” button. ❶ Exiting

* Go out from TEST mode (Power off).

* The LCD turns off.

DIAGNOSTIC PROGRAM IS FINISHED.

EXPLODED VIEW



PARTS LIST

WK-3800

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	Remarks
		Main PCB						
N	1	10248139	PCB ASSY/MAIN	TK-RJM507166*001	1	DW	A	
	IC2	10197796	IC	TA75S393F(TE85L.F)	1	AL	C	
	IC4	10197802	IC	TC74VHCT08AFT(EL.	1	AE	B	
	IC5	10198126	MEMORY	CY62128DV30LL70ZA	1	BN	B	
N	IC6	10241413	IC	R1151N001C-TR-F	1	AE	B	
	IC7	10197390	MEMORY	LP62S2048AX70LLTF	1	AY	B	
	IC8,9,21,22	10197555	IC	TC7SZ14FU(TE85L.F)	4	AE	B	
N	IC12,24	10179619	IC	TC7SZ04FU(TE85L.F)	2	AA	B	
	IC13	10200257	LSI	UPD914AGM-JED-A	1	CH	B	
	IC15	10197809	IC	TC7WH123FU(TE12L.	1	AE	B	
N	IC19	10239682	IC	RH5RL33AA-T1-F	1	AB	C	
N	IC33	10240648	IC	TC74LCX08FT(EL.K)	1	AE	B	
	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	
	Q6	10153685	FET	2SJ346(TE85L.F)	1	AA	C	
N	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,L5-22,27,28	10095204	COIL	BLM18AG102SN1D	22	AA	C	
	L4	10122963	COIL	BLM21AG102SN1D	1	AC	C	
	L23	10080354	FILTER/EMI	BLM18AG601SN1D	1	AA	C	
	L26	10158809	COIL	DLP31SN221SL2L	1	AI	C	
	L24,25	10089941	COIL	BLM21PG221SN1D	2	AA	C	
	X3	10211946	RESONATOR	SSM1200000F17F5FZ	1	AC	C	
	X2	10208977	RESONATOR	SSM1638400F16FSFZ	1	AC	C	
	X1	10047437	OSCILLATOR/CRYSTAL	CSTCC8.00MG16953-	1	AD	C	
	F6,7,8	10122975	FILTER	EZASSB516BJ	3	AA	C	
	F1,2,4,5,9,10-13	10122976	FILTER	EZASTB63ABJ	9	AA	C	
		Sub PCB						
	2	10248140	PCB ASSY/PSA	TK-RJM507168*001	1	CN	B	PSA1~PSA2
	IC201	10201503	IC	PQ1CG21H2FZH	1	AO	B	
	IC202, 204	10206677	IC	NJM2068D-D	2	AH	B	
	IC205	10203081	IC	LA4636-E	1	AV	B	
	Q201,203, 204,205, 209,210	10206673	TRANSISTOR	KTC3199-GR-AT/P	6	AA	C	
	Q202	10206675	TRANSISTOR	KTA1273-Y-AT/P	1	AA	C	
	Q206,208	10025042	TRANSISTOR	2SD1468STPR	2	AA	C	
	D202,203,206,214	10209003	DIODE	1N5822-F100	4	AB	C	
	D203,212,213	10108141	DIODE	1SS133TP	3	AA	C	
	D205	10115969	DIODE	DZ5.6BSBTP	1	AA	C	
N	D207,208	10125668	DIODE	DZ7.5BSBTP	2	AA	C	
	J201	10210582	JACK/DC	HEC2305-016920	1	AC	C	
	J202,203	36120584	JACK	YKB21-5012	1	AD	C	
	J204	36120789	JACK	YKB21-5010	1	AC	C	
	L201,202,204,205,206,207	10206680	COIL	R2318-RB53856397NI	6	AA	C	
	L203	10208248	COIL	R187-860400NP	1	AC	C	

Notes : Q - Quantity per unit
R - Rank

N	Item	Code No.	Part Name	Specification	QTY	Price Code	R	Remarks
		Console PCB						
N	3	10248142	PCB ASSY/CNA	TK-RJM507170*001	1			CNA1~CNA6
	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	
N	L301, 302	10210717	FERRITE BEAD	BB36-851665NP	2		C	
	L303	10206672	COIL	R2318-RB53856396NP	1			
	X301	10093909	OSCILLATOR/CERAMIC	CSBLA1M00J58-B0	1		C	
	VR301	10123103	VARIABLE RESISTOR	RK09K12C0D1B	1	AH	C	
	J301	36120665	CONNECTOR	YKB21-5006	1		C	
N	D324, 325	10221285	LED	SDPB3DD0C100DEFGHI	2	AH	C	
	D328, 329	10123006	LED	1154GD-B5/4.5-90	2	AD	C	
		BL assy						
	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	C	
	IC401	10006502	LSI	ML9040-B02GA	1	AU	C	
	IC402	10122996	IC	TC74HCT08AF(EL)	1	AB	C	
		Key board assy						
	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	AH	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	C	
	D801~D952	23153132	DIODE	1SS133T-77	152	AA	C	

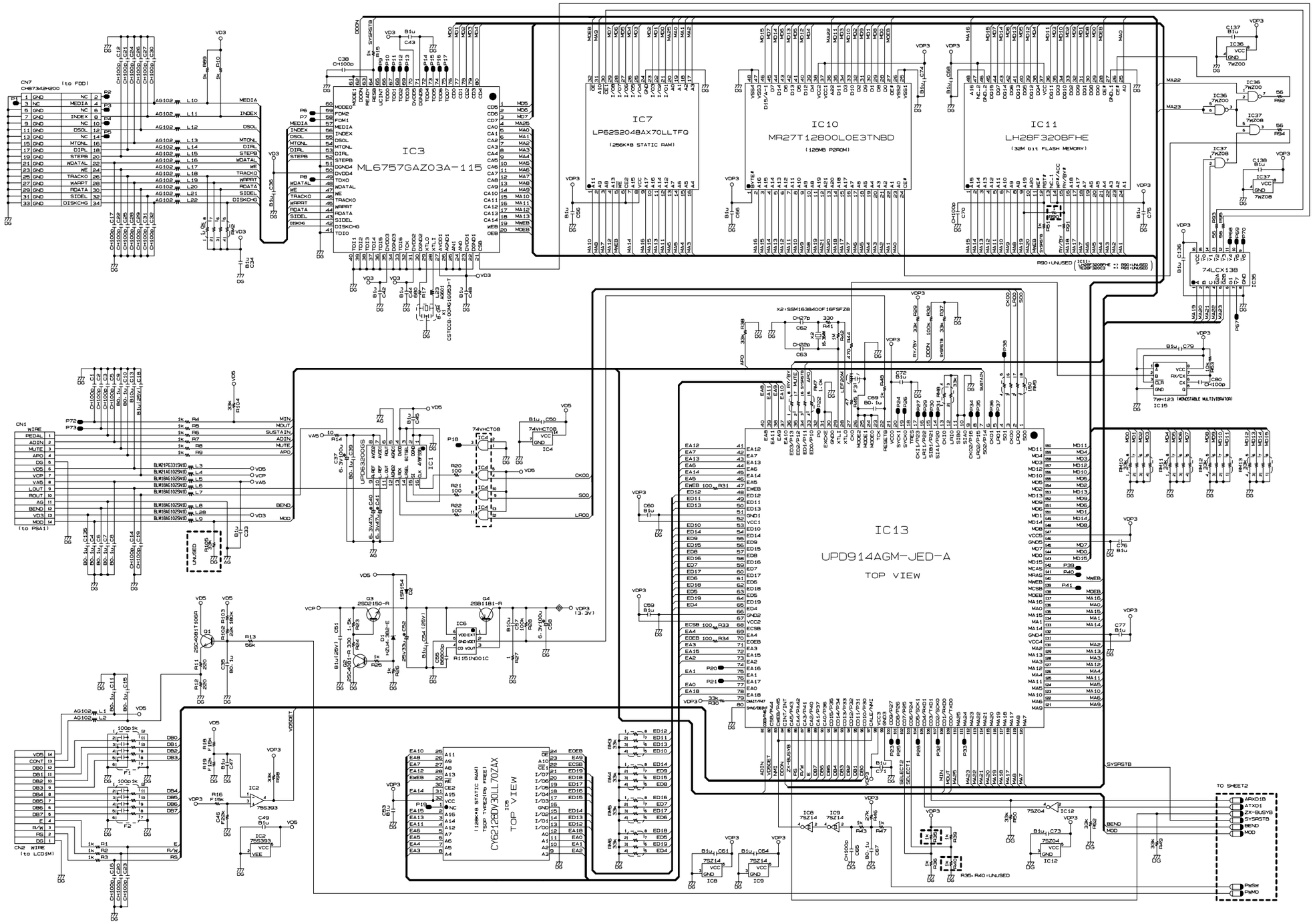
Notes : Q - Quantity per unit
R - Rank

N	Item	Code No.	Part Name	Specification	QTY	Price Code	R	Remarks
		Case Unit						
	15	10200667	COVER/BATTERY	TK-M341288*003	1	AX	C	
N	16	10247813	PLATE/DISPLAY	RJM502476-008V01	1		C	
	17	10197775	KNOB/ROTARY	M341109-005	1	AE	C	
N	18	10232704	SPEAKER	C12JA28	2		C	
N	19	10232702	SPEAKER	C05JH60	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	1	AA	X	
	24	10122965	CONNECTOR	RJM502474-001V01	2	AI	C	
	25	10200666	BENDER ASSY	TK-M340804*009	1	BU	C	
	26	10200671	BENDER ASSY	TK-M340804*010	1	BS	C	
N	27	10247815	RUBBER/KEY/A	RJM502517-008V01	2		C	
N	28	10247817	RUBBER/KEY/B	RJM502518-007V01	1		C	
N	29	10247819	RUBBER/KEY/C	RJM502519-007V01	1		C	
	30	10197780	RUBBER/KEY/D	RJM502520-004V01	1	AD	C	
	31	10197781	RUBBER/KEY/E	RJM502521-004V01	1	AB	C	
N	32	10247823	RUBBER/KEY/F	RJM502522-008V01	1		C	
N	33	10247825	RUBBER/KEY/G	RJM502523-008V01	1		C	
	34	10197784	RUBBER/KEY/H	RJM502524-003V01	1	AV	C	
	35	10123043	RUBBER/KEY/J	RJM502525-001V01	1	AA	C	
N	36	10247828	RUBBER/KEY/K	RJM502526-007V01	1	AD	C	
N	37	10247881	RUBBER/KEY/L	RJM502527-007V02	1	AF	C	
N	38	10247887	RUBBER/KEY/M	RJM502870-007V01	1	AF	C	
N	39	10247883	RUBBER/KEY/N	RJM502529-007V01	1	AM	C	
N	40	10247885	RUBBER/KEY/P	RJM502530-007V01	1	AB	C	
N	41	10248141	CASE ASSY/UPPER	TK-RJM506695*001	1		X	
	42	10200674	CASE ASSY/MIDDLE	TK-M141081*012	1	DE	X	
	42-1	10036658	SPRING/BATTERY/(+)	M441101A-1	1	AA	X	
	42-2	10036659	SPRING/BATTERY/(-)	M441102A-1	1	AC	X	
	42-3	10036660	SPRING/BATTERY	M441099A-1	2	AC	X	
	42-4	10036661	SPRING/BATTERY	M441100A-1	3	AC	X	
	43	10025065	PLATE/LOWER	M341268-001	1	AM	X	
	44	10025066	PLATE/LOWER	M241302-001	2	AP	X	
	45	10187095	FDD	702D-6238D-050017	1	CX	C	
	46	10130438	CONNECTOR	AMP-2P-120-M735	1	AI	C	
	47	10130439	CABLE/FDD	CA-X125-070-A13	1	AW	C	
	48	10025048	BLACKET L/FDD	M341272-001	1	AD	C	
	49	10025046	BLACKET R/FDD	M341273-001	1	AD	C	
		Accessories						
	-	10229891	AC ADAPTOR	AD-12UL-TC3(D)	1		C	For US
	-	10247805	STAND/MUSIC	M141071-006V01	1		X	
	-	10055632	BATTERY	GP13A0-9S2	3	BG	C	Except EU/US
N	-	10247807	LABEL/RATING	M341007-063V01	1		X	
	-	10248108	CD ROM	IDES50CDROMWL1A	1		C	
N	-	10247868	FLOPPY DISK	WK3800FDWL1A	1		C	

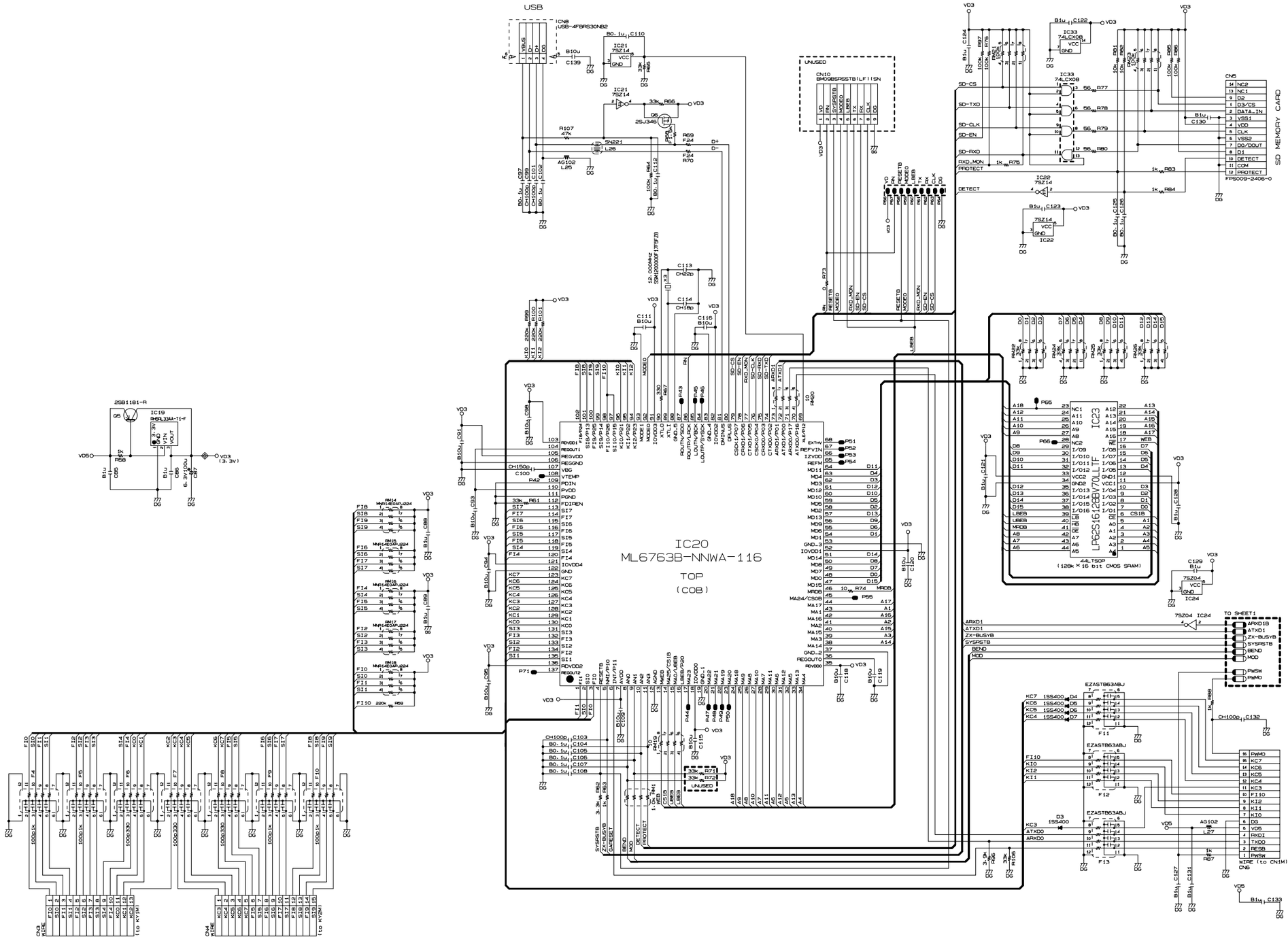
Notes : Q - Quantity per unit
R - Rank

SCHEMATIC DIAGRAMS

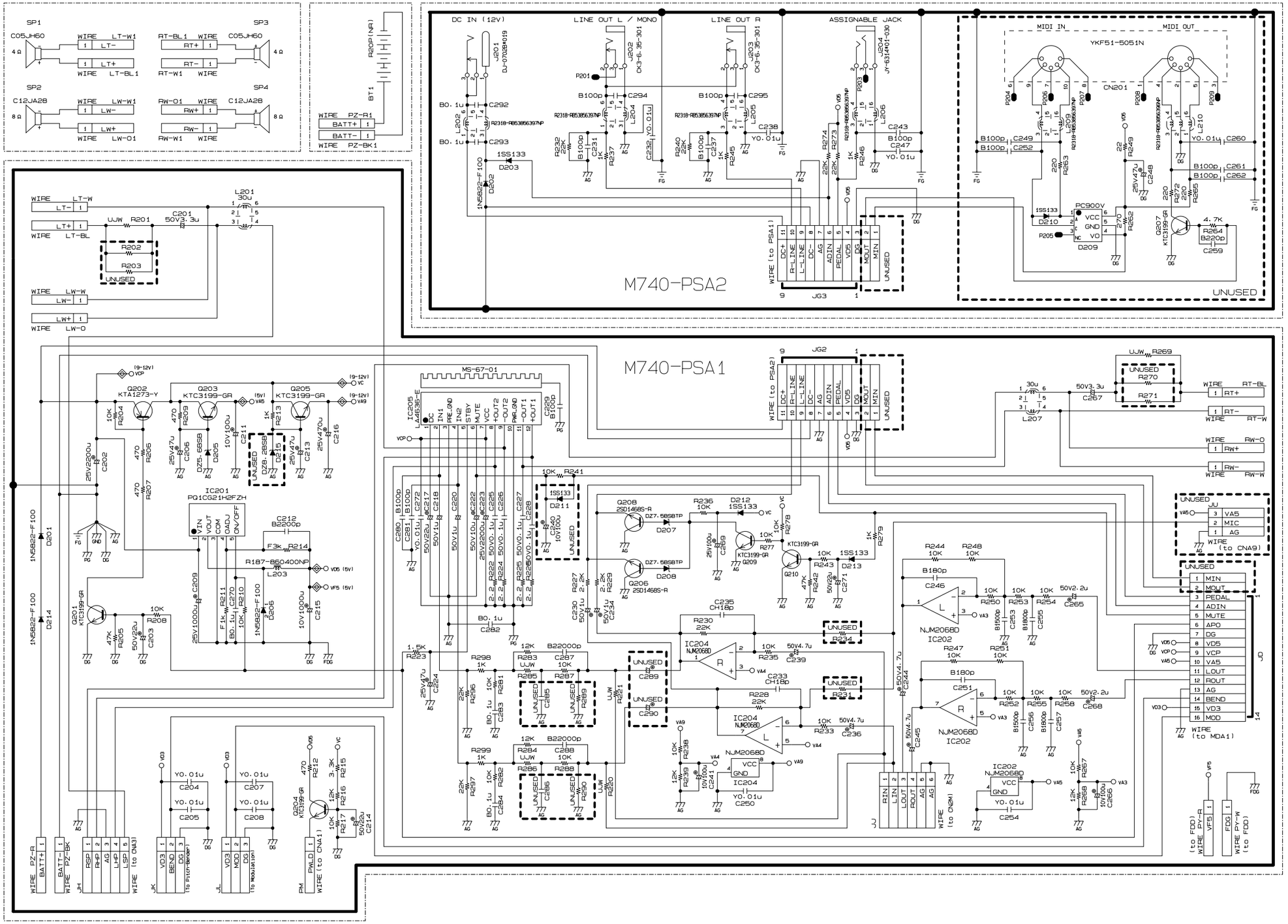
MAIN PCB M740-MDA1 (1/2)



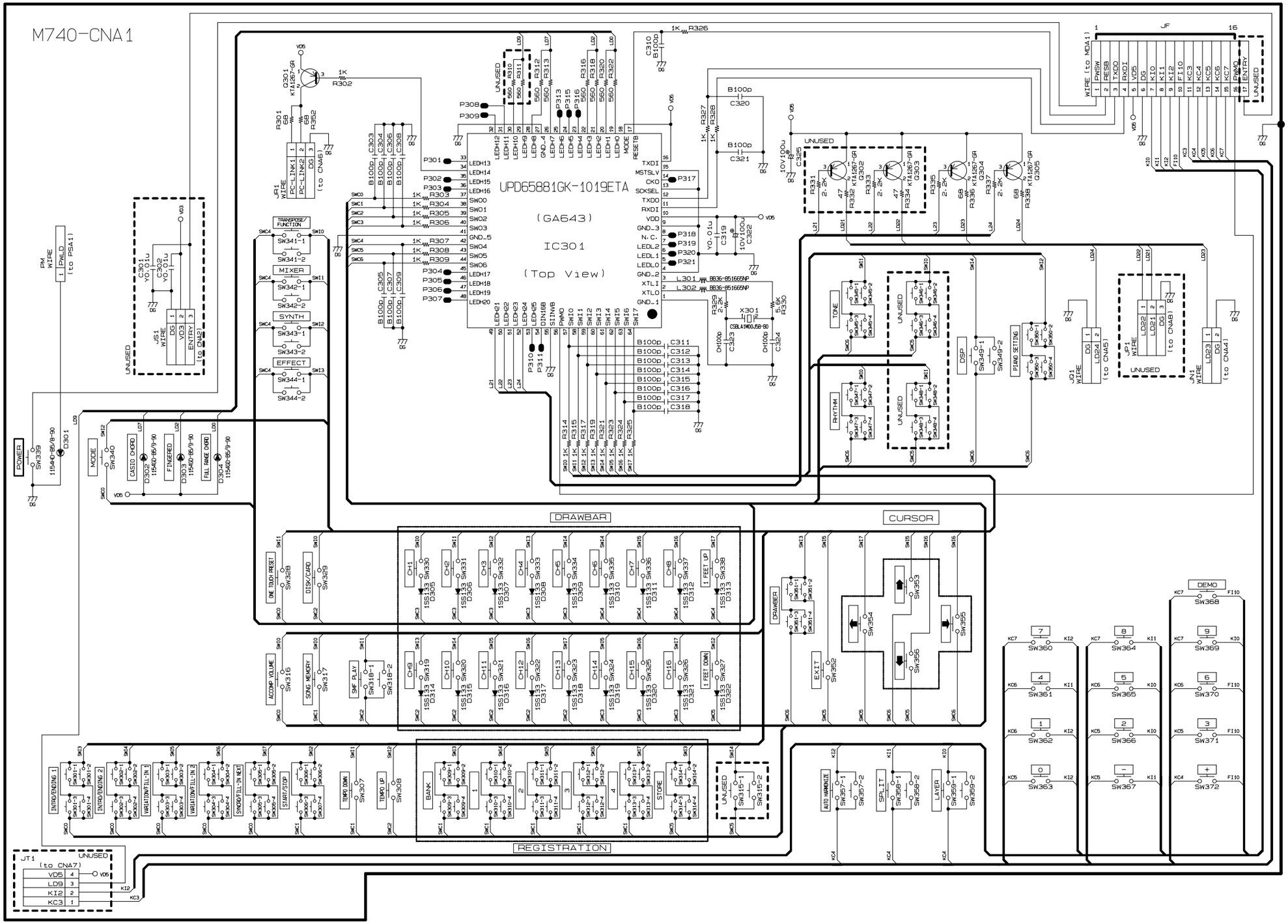
MAIN PCB M740-MDA1 (2/2)



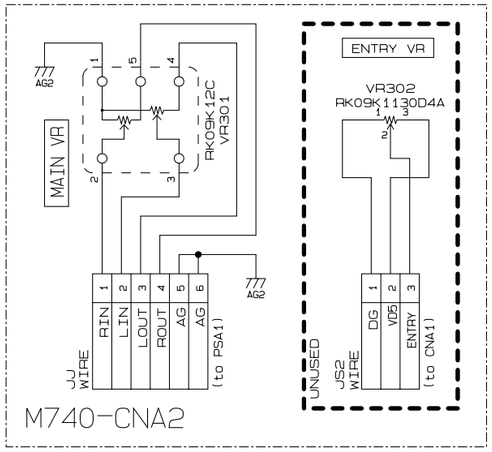
SUB PCBs M740-PSA1/PSA2

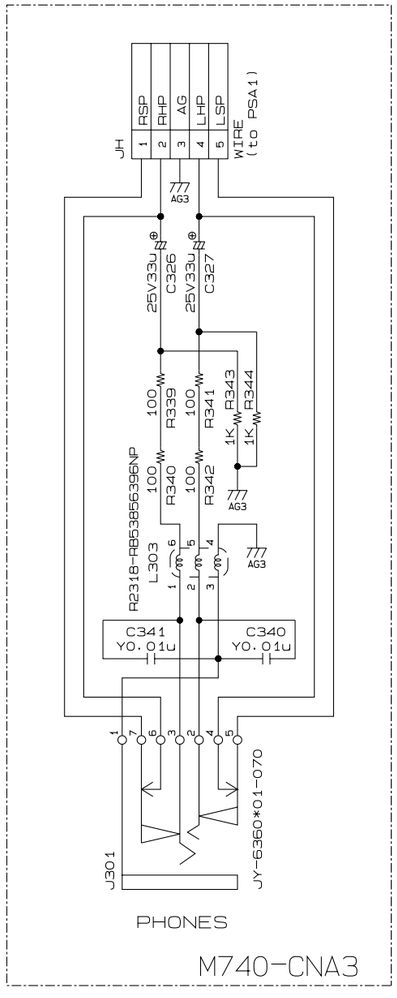


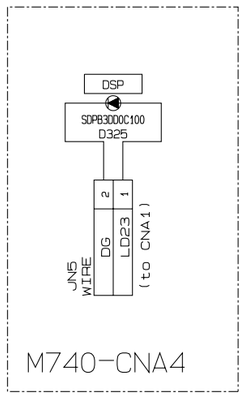
CONSOLE PCB M740-CNA1

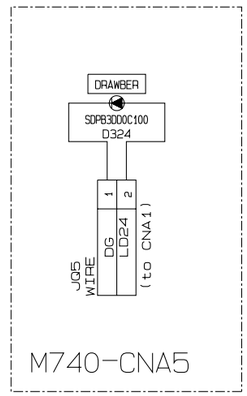


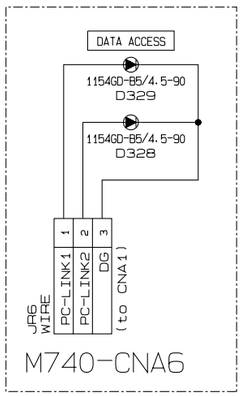
CONSOLE PCBs M740-CNA2/CNA3/CNA4/CNA5/CNA6



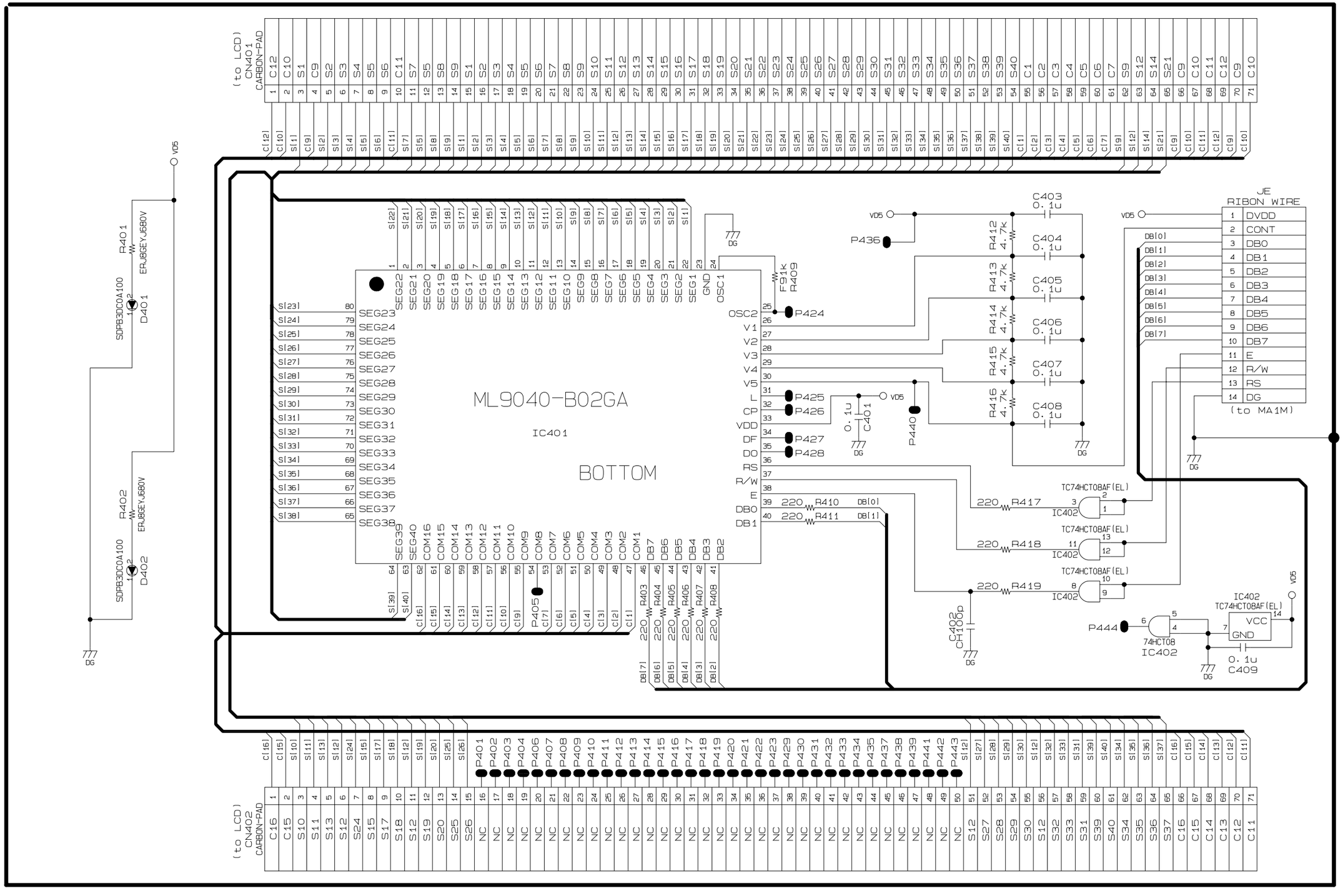




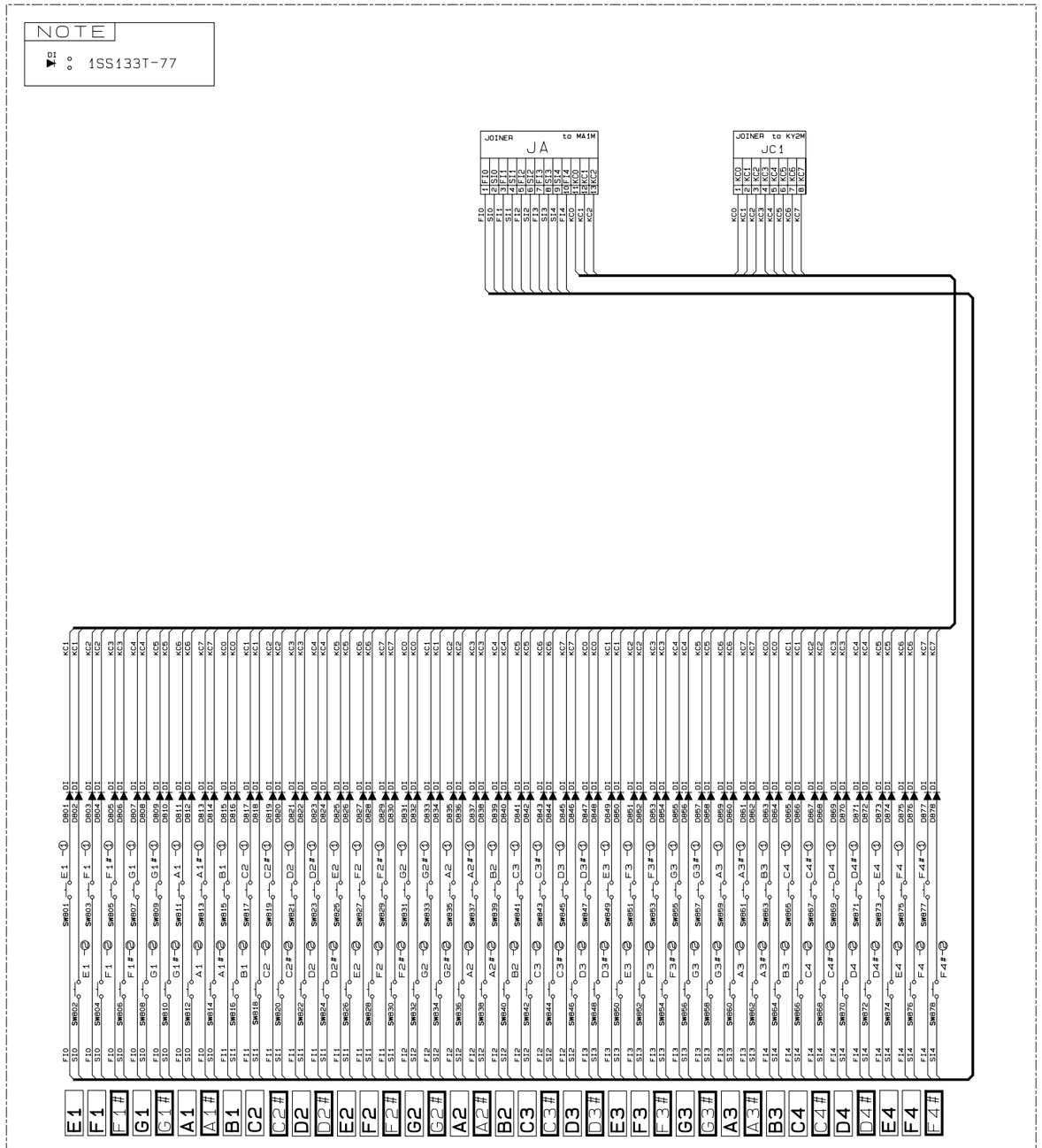




DISPLAY PCB M734-LCD1M



KEYBORD PCBs M764T-KY1M/KY2M



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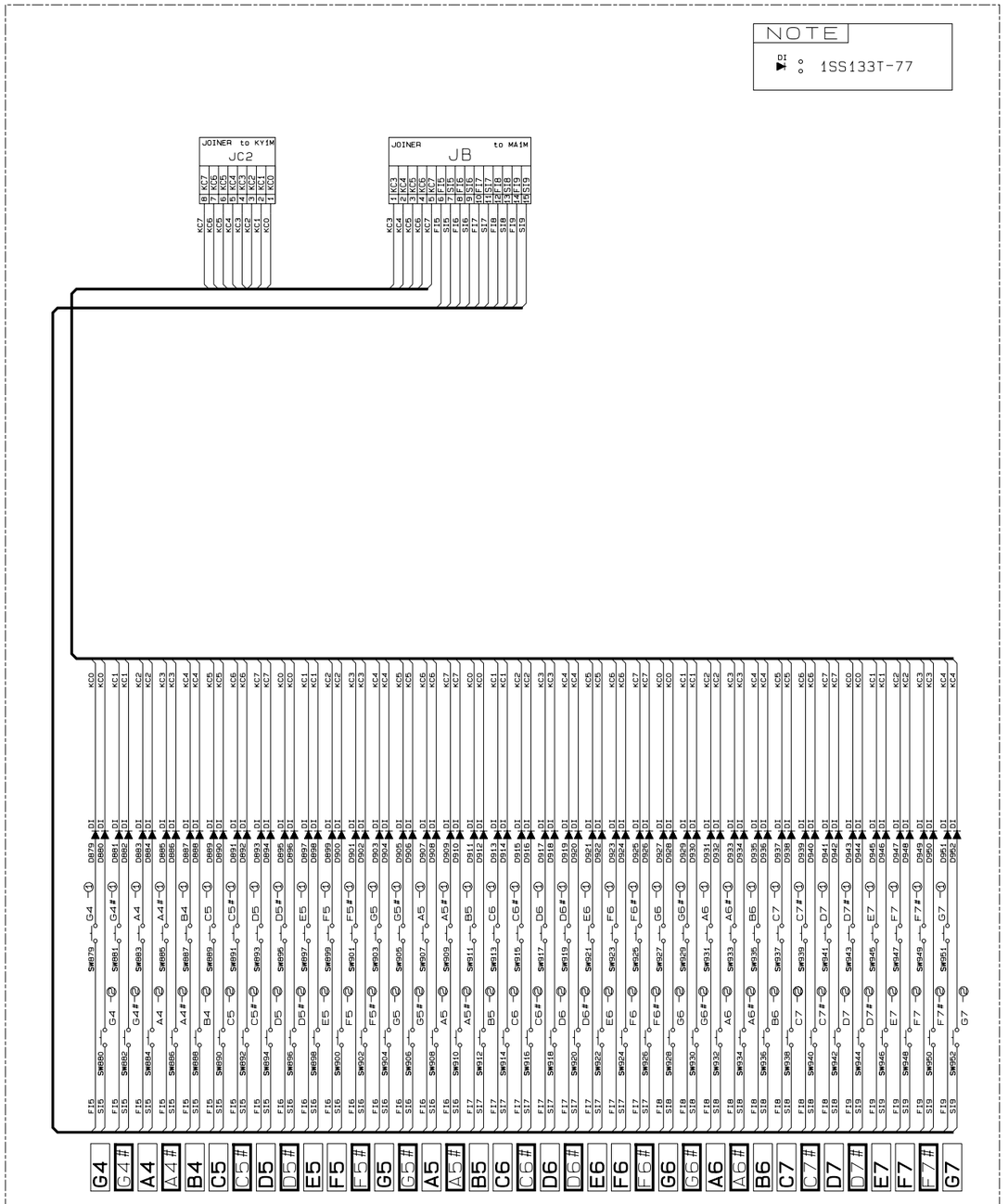

M764T-KY2M

CASIO COMPUTER CO.,LTD.
Overseas Service Division

6-2, Hon-machi 1-Chome
Shibuya-ku, Tokyo 151-8543, Japan