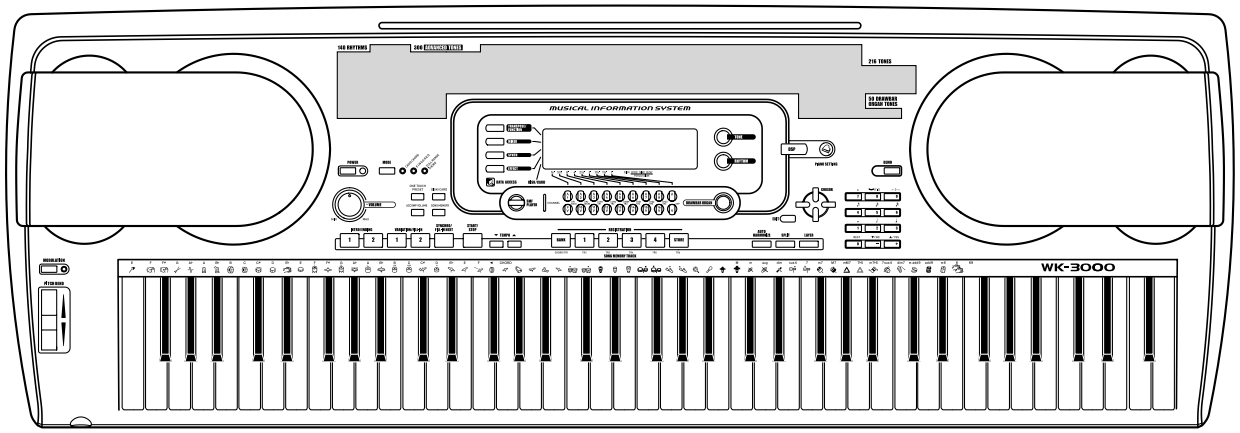
CASIO®

Service Manual

(without price)

WK-3500

SEP. 2003



WK-3500

HIGH-GRADE KEYBOARD

Ver.1 : Feb. 2005

CONTENTS

SPECIFICATIONS

GENERAL

Keyboard: 76 standard-size keys, 6 1/4 octaves with touch response (OFF/1/2/3)

Tones: 300 Advanced Tones + 200 Preset Tones + 16 Drum Sets + 100 standard user tones + 20 user tones with waves*: + 4 drum sets with waves* + 50 drawbar organ tones + 100 user drawbar organ tones + 150 Drawbar Organ Tones (790 tones total); layer/split

Rhythm instrument tones: 61

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) + Equalize (10 types, 4 bands)

Auto Accompaniment

- Rhythm Patterns: 156 (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	Garage Flava	Steave Turner	2:15
1	Breath Air	Hage Software	2:19
2	Nora Park	TECH-NOTE INTERNATIONAL LTD.	2:06

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; 300 Advanced Tones + 200 Preset Tones + 16 Drum Sounds + 124 User Tones + 150 Drawbar Organ Tones (790 tones total)

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*
Supported Format:	SMF0
Flash Memory	
Capacity:	2MB
Shared Area:	Approximately 1.5MB (waveform data, accompaniment data, SMF data) Further storage of waveform, accompaniment, and SMF data becomes impossible after the total of such data reaches approximately 1.5MB.
Card Slot	3.3V SmartMedia™ (8MB, 16MB, 32MB, 64MB, 128MB)
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	
MIDI Terminals:	IN, OUT
Sustain/Assignable Terminal:	Standard jack (sustain, sostenuto, soft, rhythm start/stop)
Headphone:	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:	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 × 16.0 cm (48 $^{3}/_{16}$ × 16 $^{11}/_{16}$ × 6 $^{5}/_{16}$ inch)
Weight:	Approximately 10.0 kg (22.0 lbs) (without batteries)

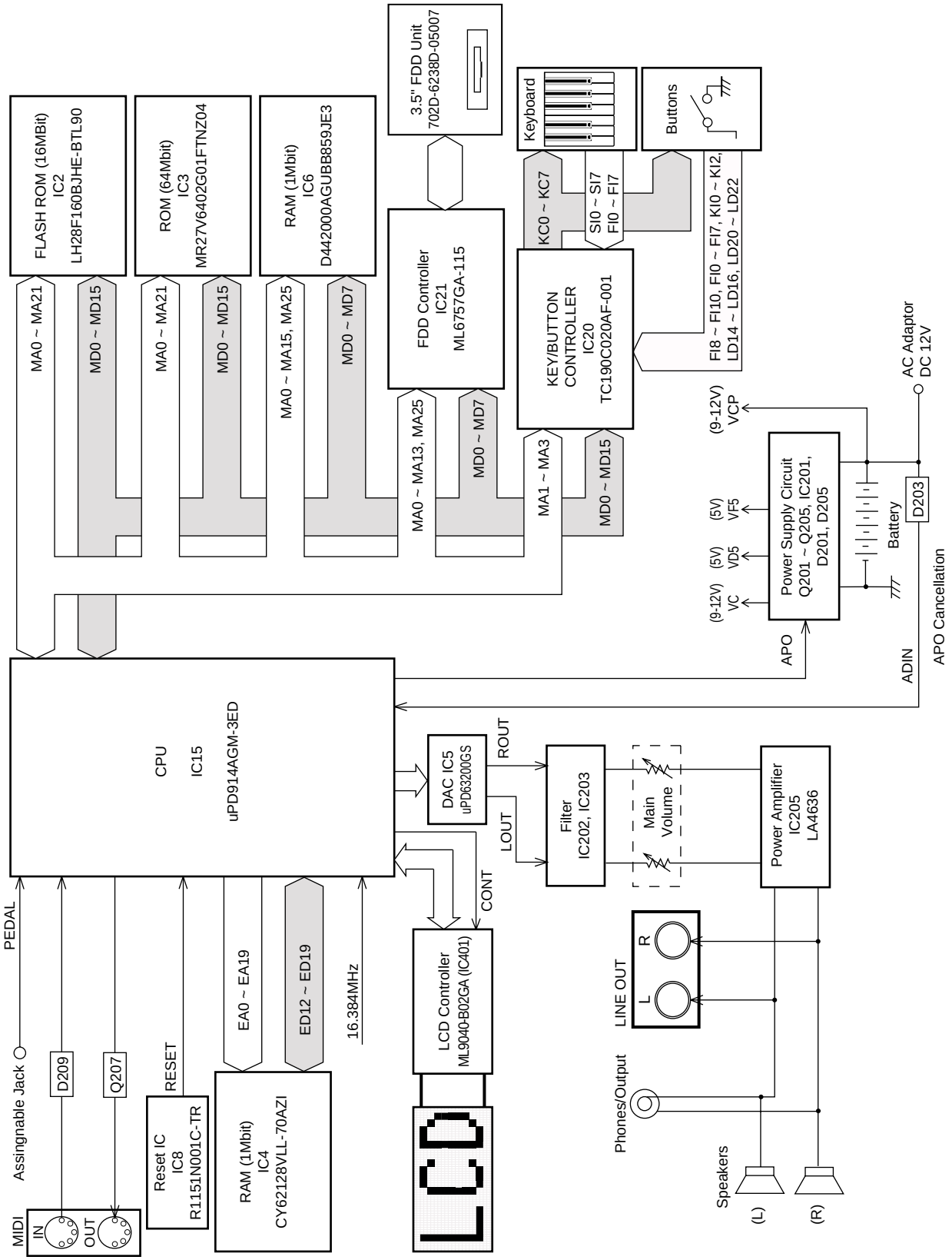
* The same memory area is used to store waveform data, accompaniment data, and SMF data.

ELECTRICAL

Current drain with 12 V DC:

No sound output	230 mA ± 20 %
Maximum volume with 16 keys from E1 to F3 pressed in 193 BREATHY ALTO SAX Volume: MAX., Velocity: MAX.	1430 mA ± 20 %
Speaker output level (Vrms with 8 Ω load each channel): with key G2 in 193 BREATHY ALTO SAX Volume: MAX., Velocity: MAX.	L/R: 5000 mV ± 20 %
Phone output level (Vrms with 8 Ω load each channel): with key C3(L)/G2(R) in 193 BREATHY ALTO SAX Volume: MAX., Velocity: MAX.	L/R: 390 mV ± 20 %
Output level (Vrms with 47 kΩ load each channel): with key C3(L)/G2(R) in 193 BREATHY ALTO SAX Volume: MAX., Velocity: MAX.	L/R: 3100 mV ± 20 %

BLOCK DIAGRAM

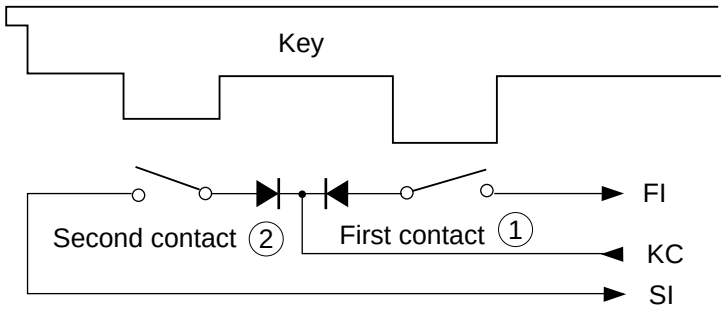


CIRCUIT DESCRIPTION

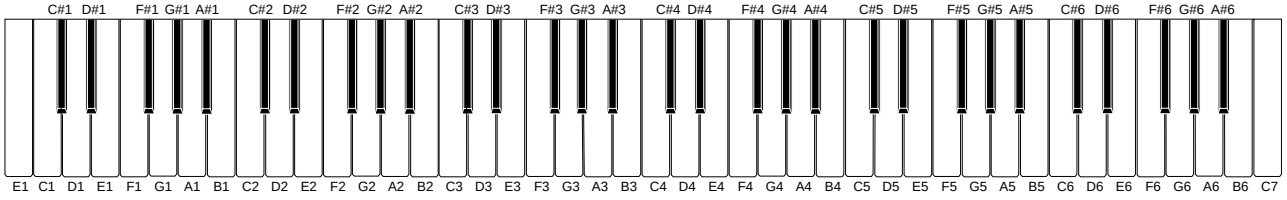
KEY MATRIX

	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



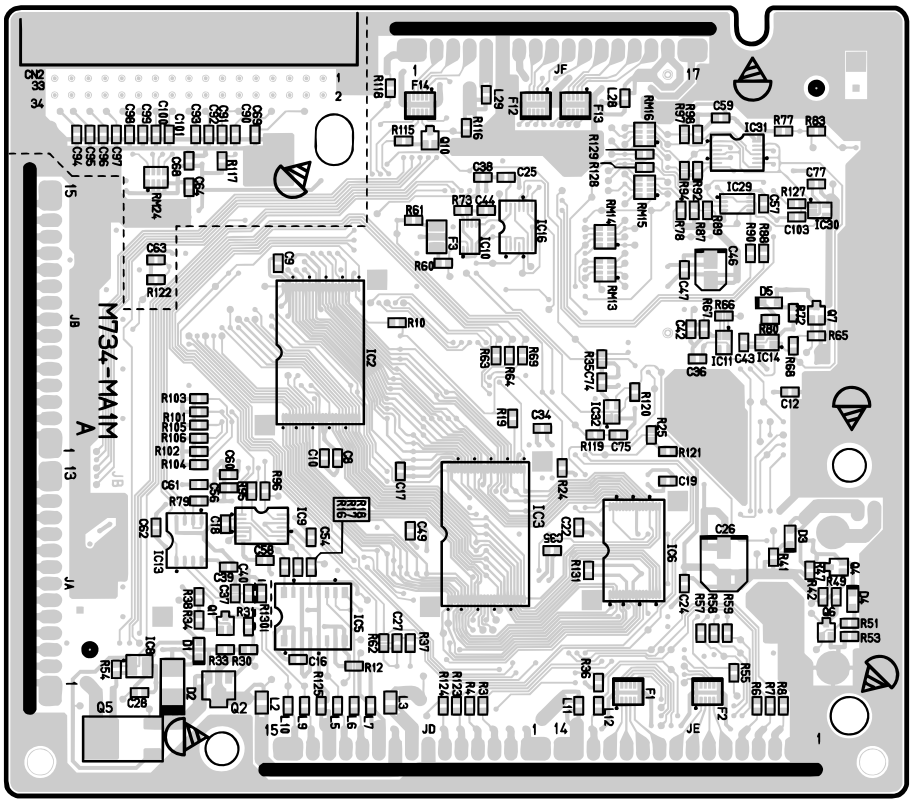
BUTTON MATRIX

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

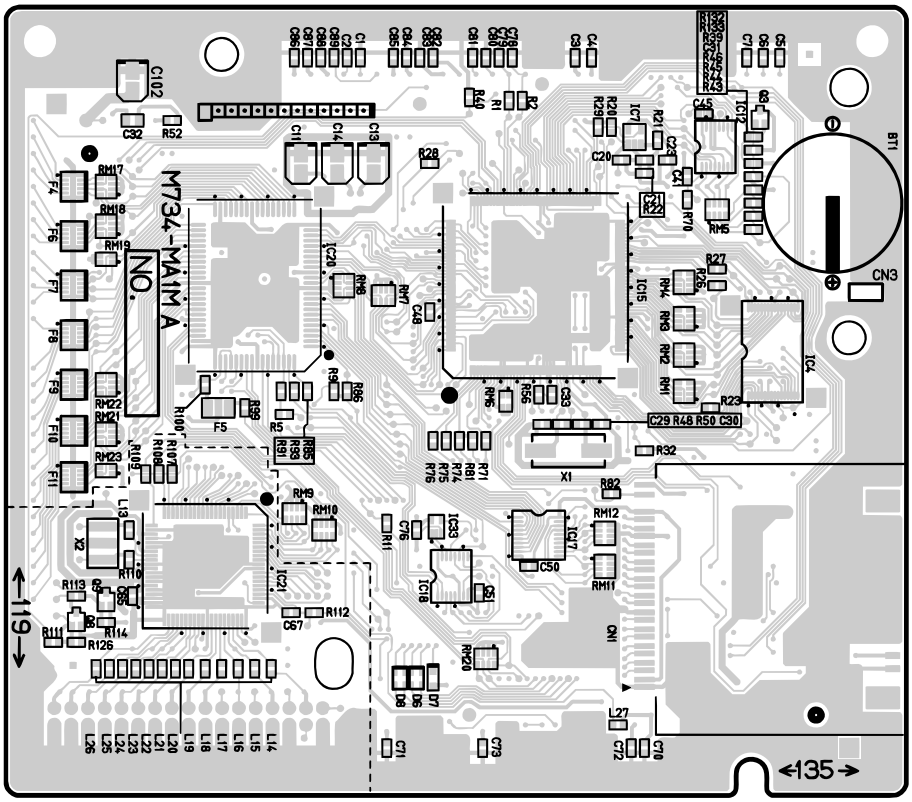
	SWI0	SWI1	SWI2	SWI3	SWI4	SWI5	SWI6	SWI7
SWC0	ACCOMP VOLUME	ONE TOUCH PRESET	MODE	INTRO/ ENDING 1	INTRO/ ENDING 2	VARIATION/ FILL-IN 1	VARIATION/ FILL-IN 2	SYNCRO/ FILL-IN NEXT
SWC1	SEQ	TEMPO DOWN	START/ STOP	BANK	1	2	3	4
SWC2	STRAGE	SMF PLAY	TEMPO UP	CH9	CH10	CH11	CH12	CH13
SWC3	CH1	CH2	CH3	CH4	CH5	CH14	CH15	CH16
SWC4	SETTING	PART EDIT	TONE EDIT	EFFECT EDIT	CH6	CH7	CH8	1 FEET UP
SWC5	SYNTH	HUMANIZER	1 FEET DOWN	STORE	ARPEGGIATOR	EXIT	◄	▲
SWC6	TONE	RHYTHM	PIANO SETTING	DRAWBER	DSP ON/OFF	►	▼	

PRINTED CIRCUIT BOARD

Main PCB JCM734-MA1M

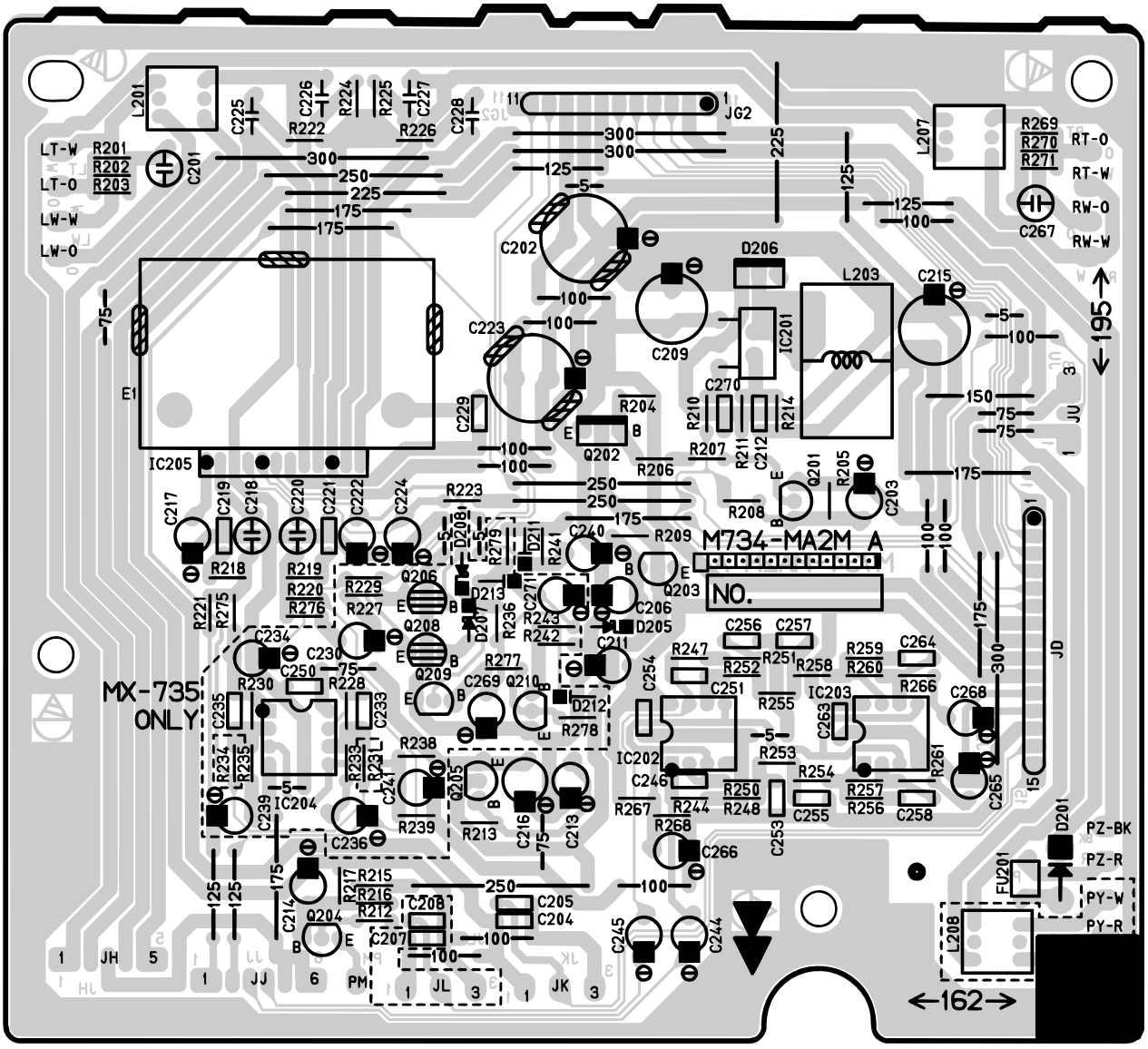


Top View



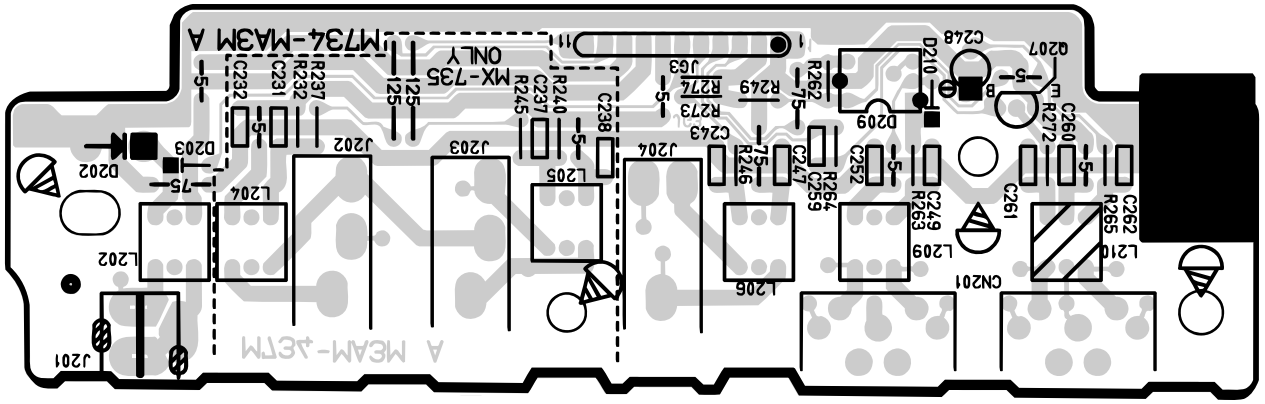
Bottom View

Sub PCB JCM734-MA2M



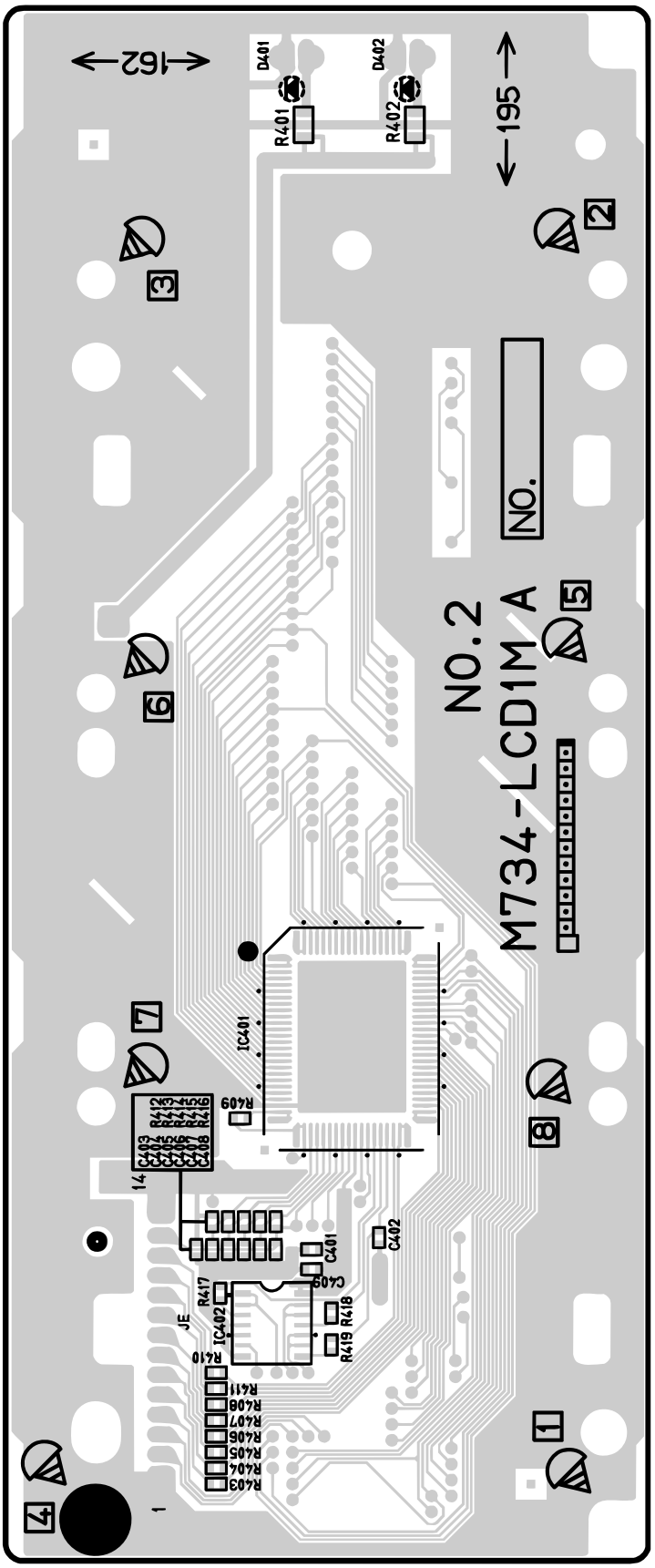
Top View

Sub PCB JCM734-MA3M



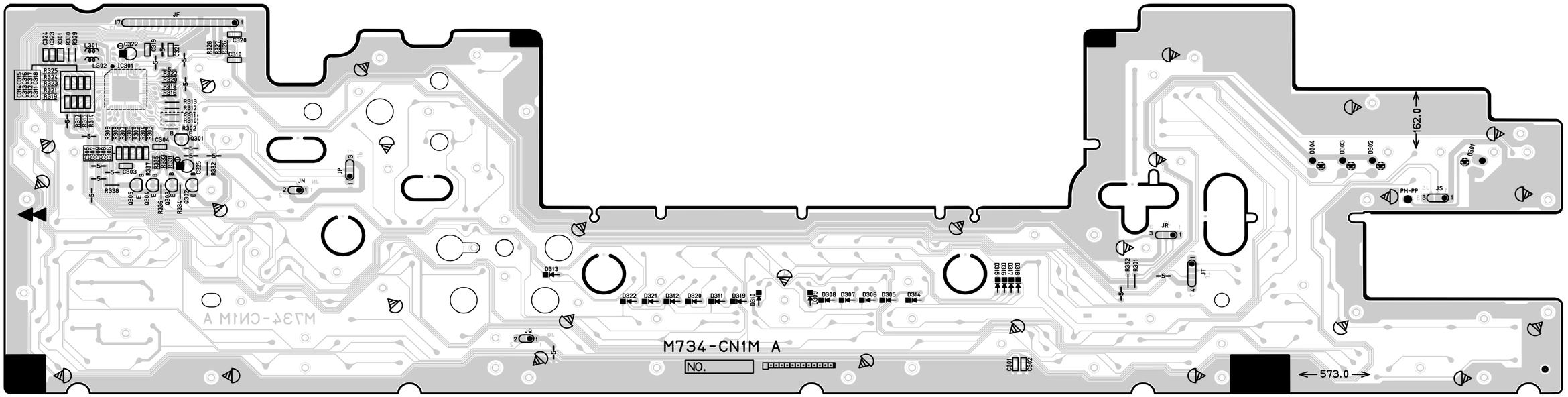
Top View

Display PCB JCM734-LCD1M

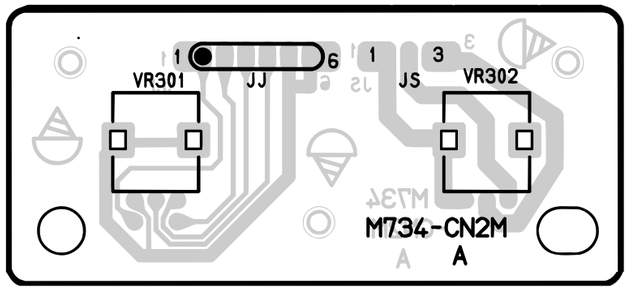


Top View

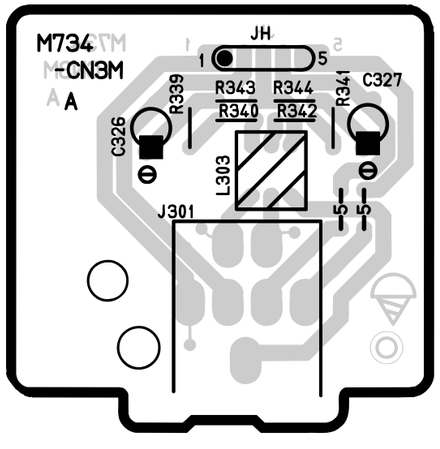
Console PCB JCM734-CN1M



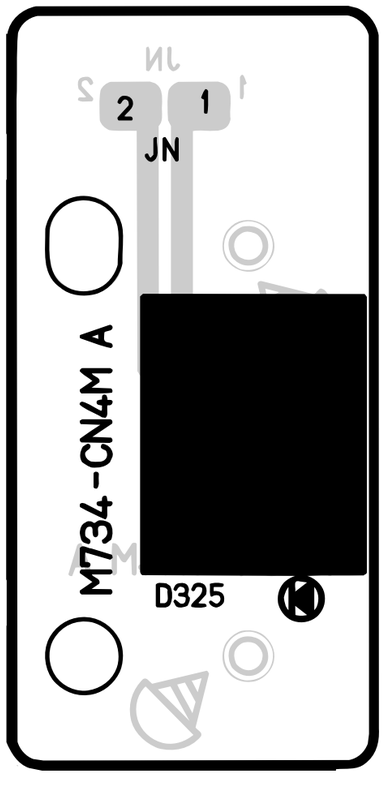
JCM734-CN2M



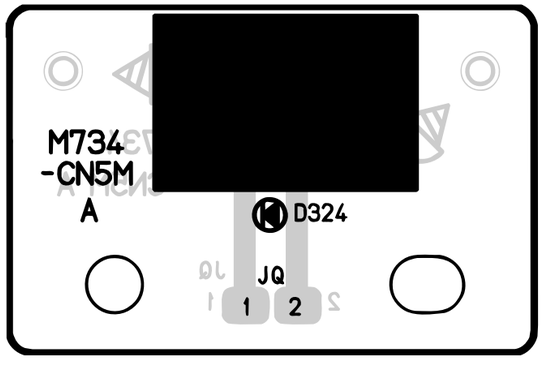
JCM734-CN3M



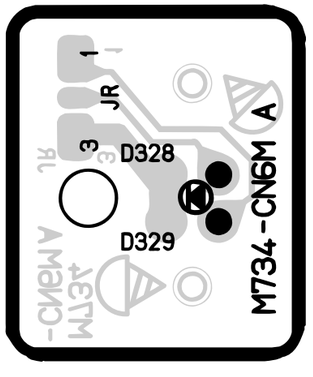
JCM734-CN4M



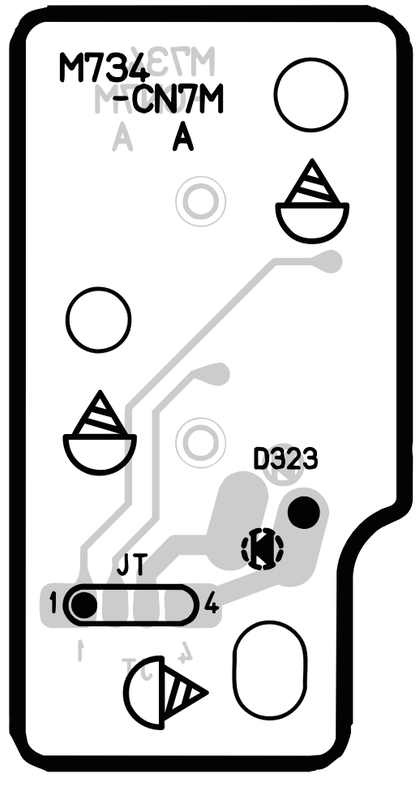
JCM734-CN5M



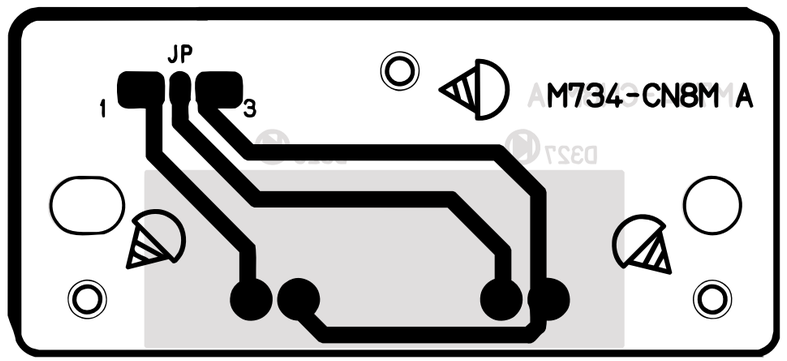
JCM734-CN6M



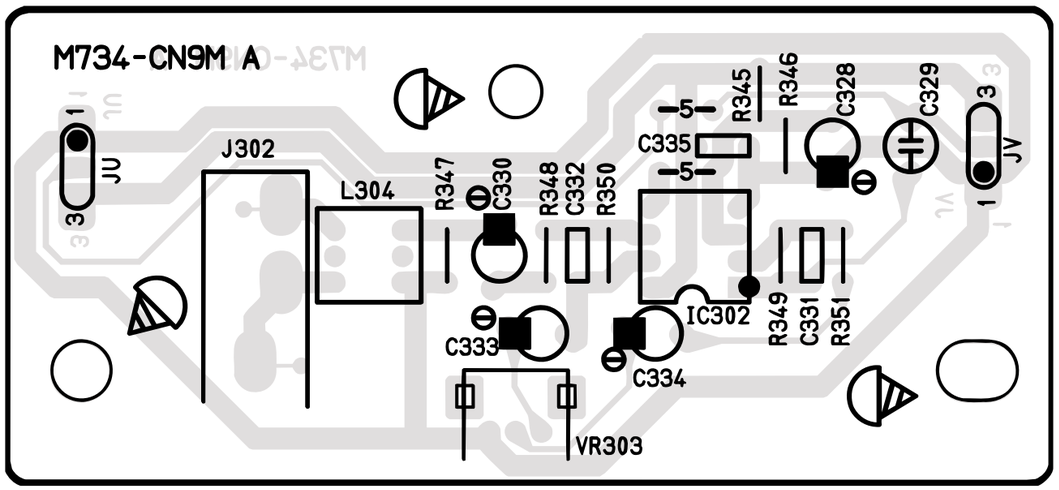
JCM734-CN7M



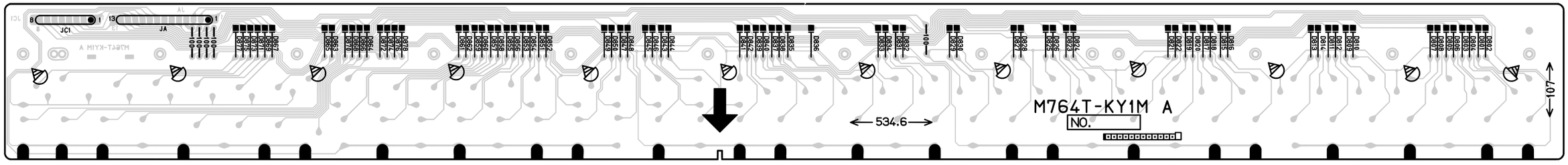
JCM734-CN8M



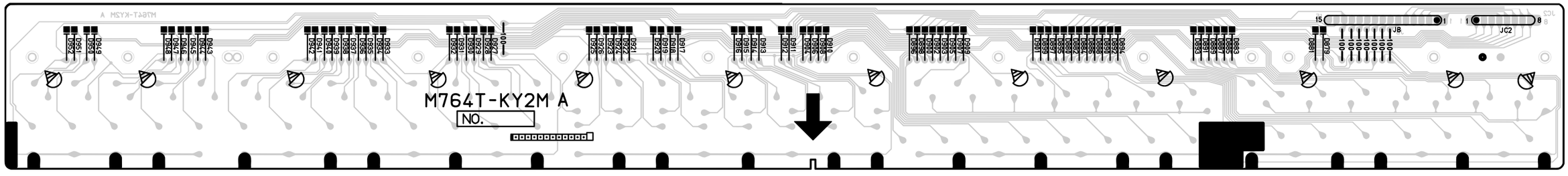
JCM734-CN9M



Keybord PCB JCM764T-KY1M

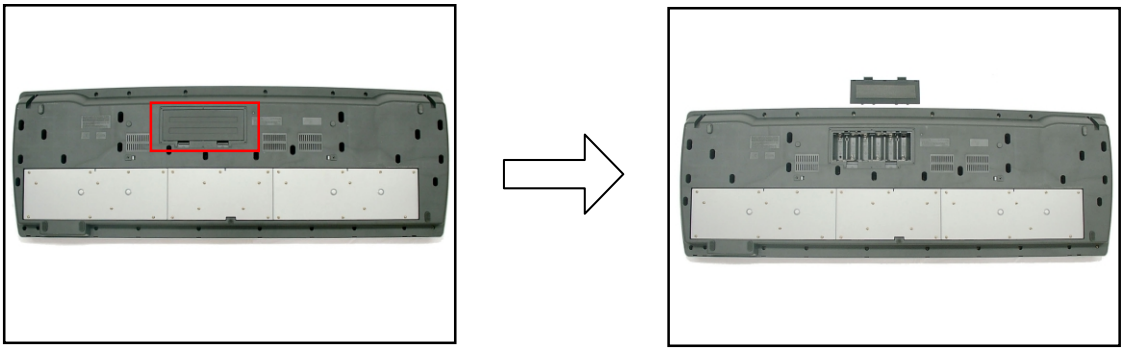


Keybord PCB JCM764T-KY2M

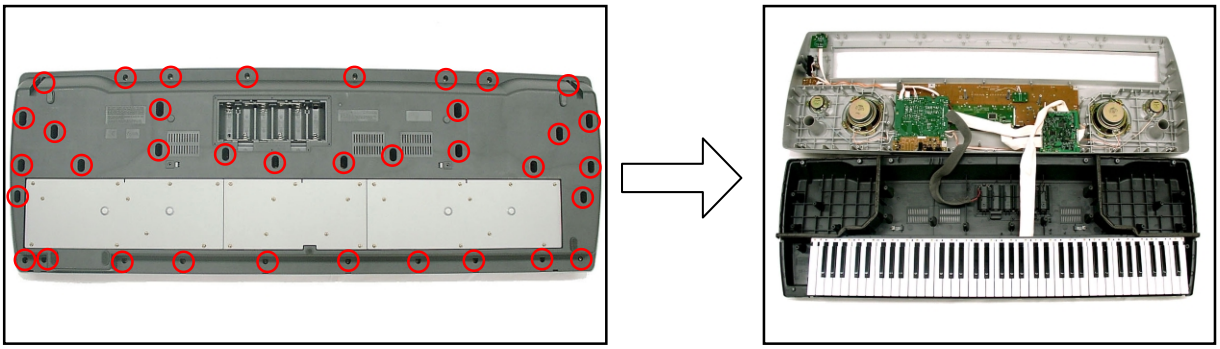


DISASSEMBLY

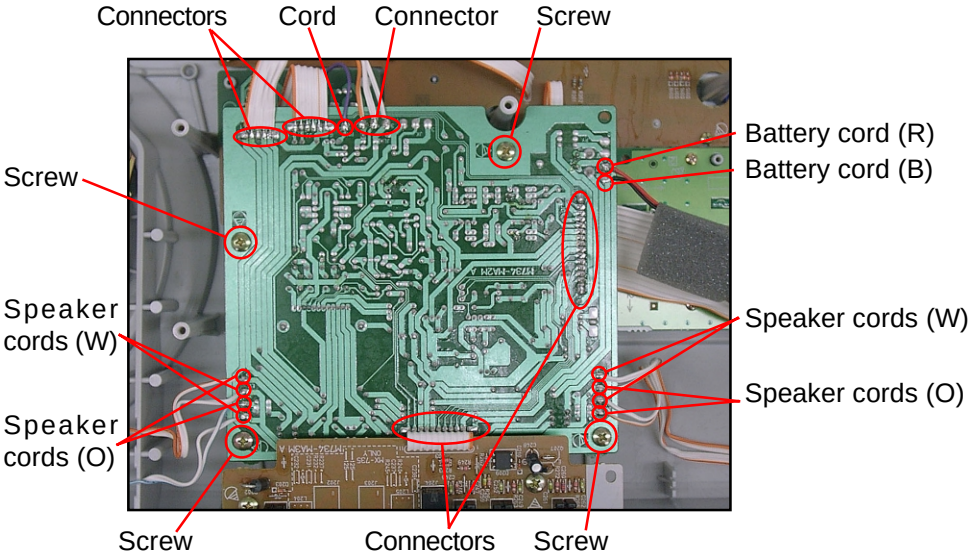
1. Remove the battery cover and then the battery.

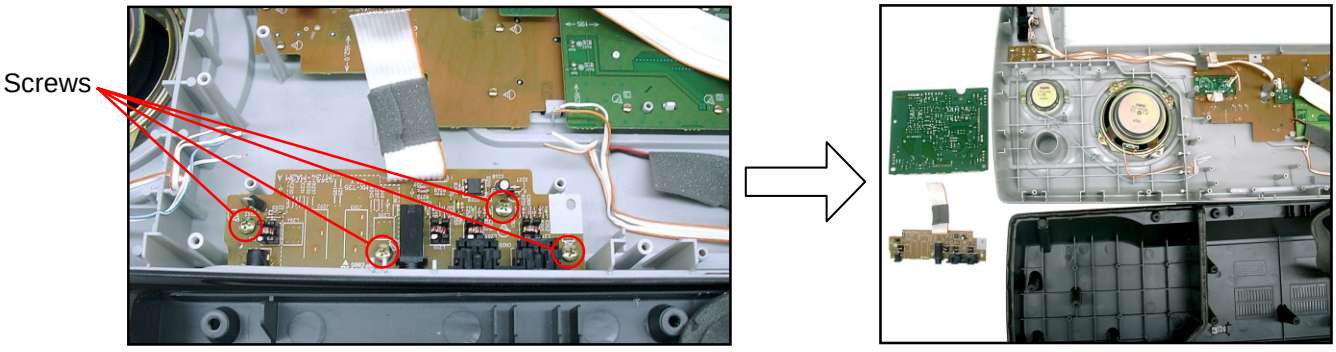


2. Remove 36 screws and then the upper case.

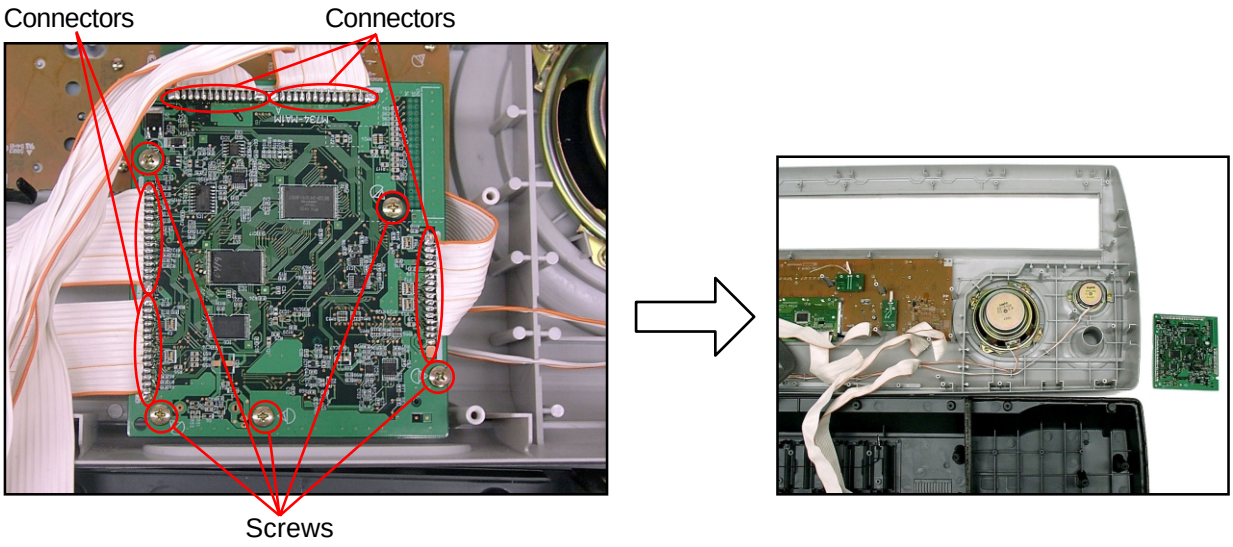


3. Remove 4 screws, 8 speaker cords, 2 battery cords, 1cord (PM), 5 connectors (JD, JG2, JH, JK, JJ) and then the PCB ASS'Y (MA2M).

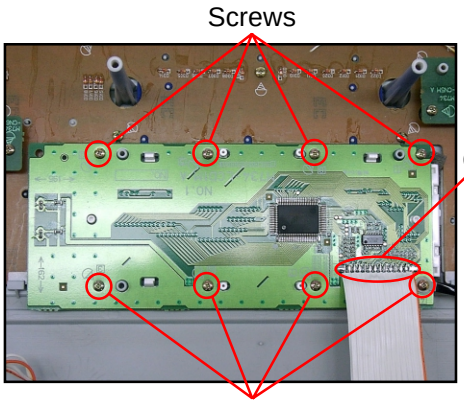


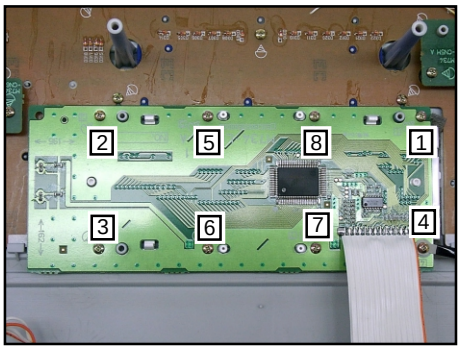


4. Remove 5 screws, 5 connectors (JA, JB, JD, JE, JF) and then the PCB ASS'Y (MA1M).



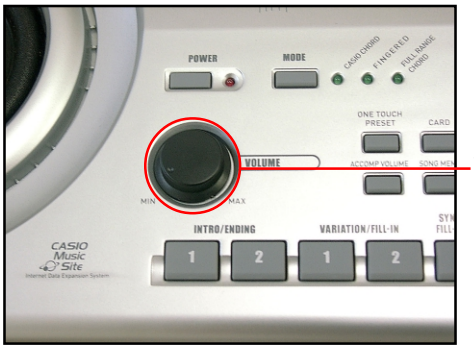
5. Remove 8 screws, 1 connector and then the LCD ASS'Y (LCD1M).



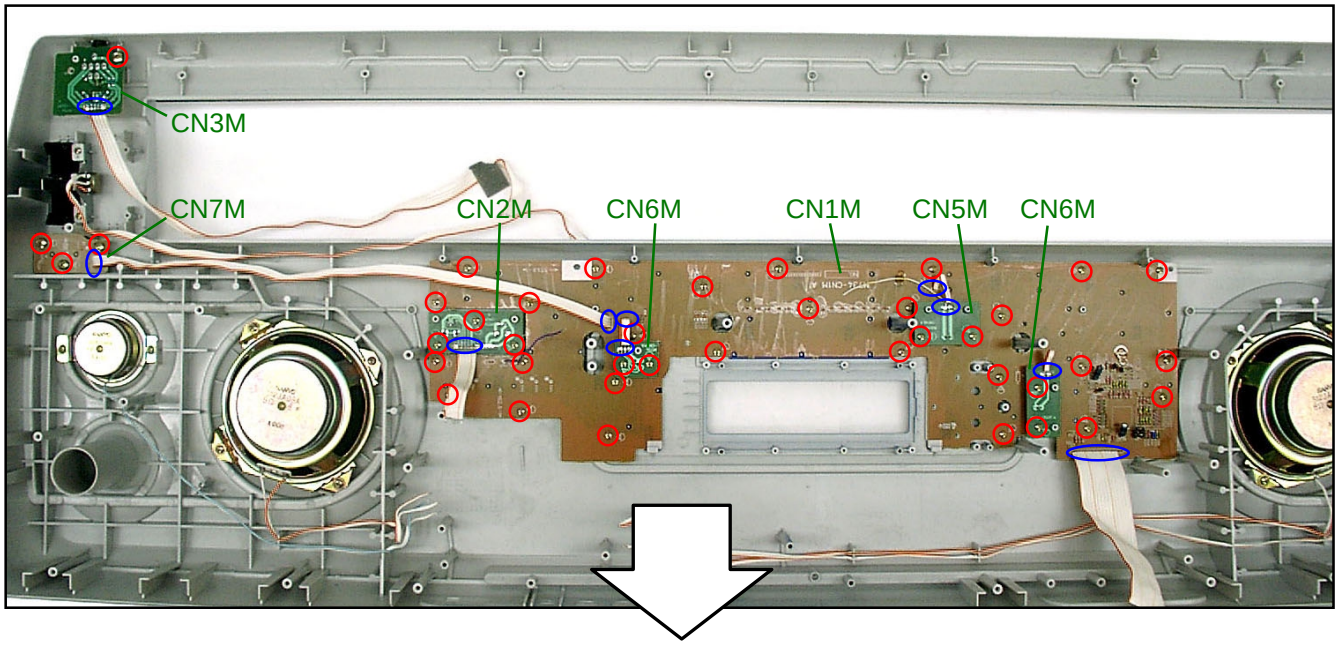


Note: Tighten the screws in the order from 1 to 8 when reassembling.

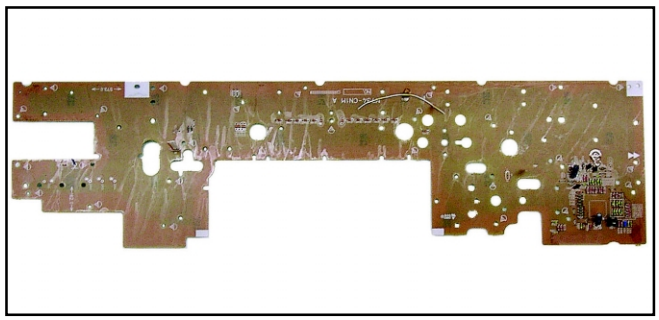
6. Remove the volume knob, screws, connectors and then the CN1, CN2, CN3, CN4, CN5, CN6, CN7.



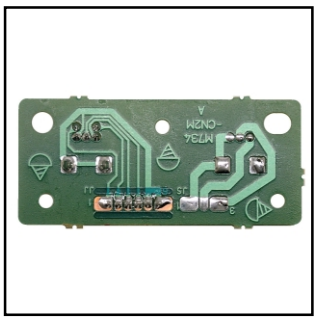
Screws Connector



CN1M



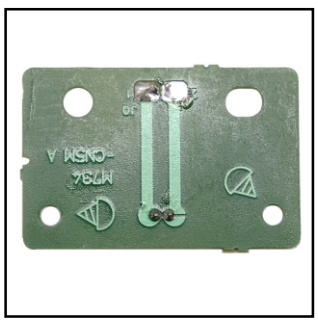
CN2M



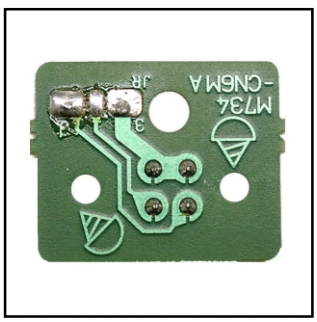
CN3M

CN4M

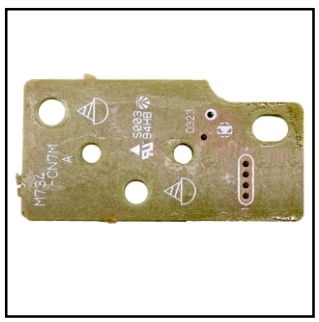
CN5M



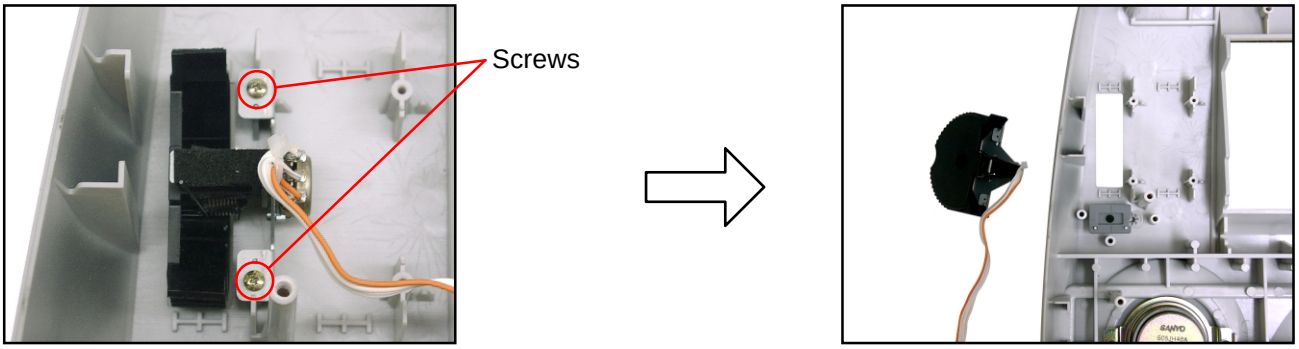
CN6M



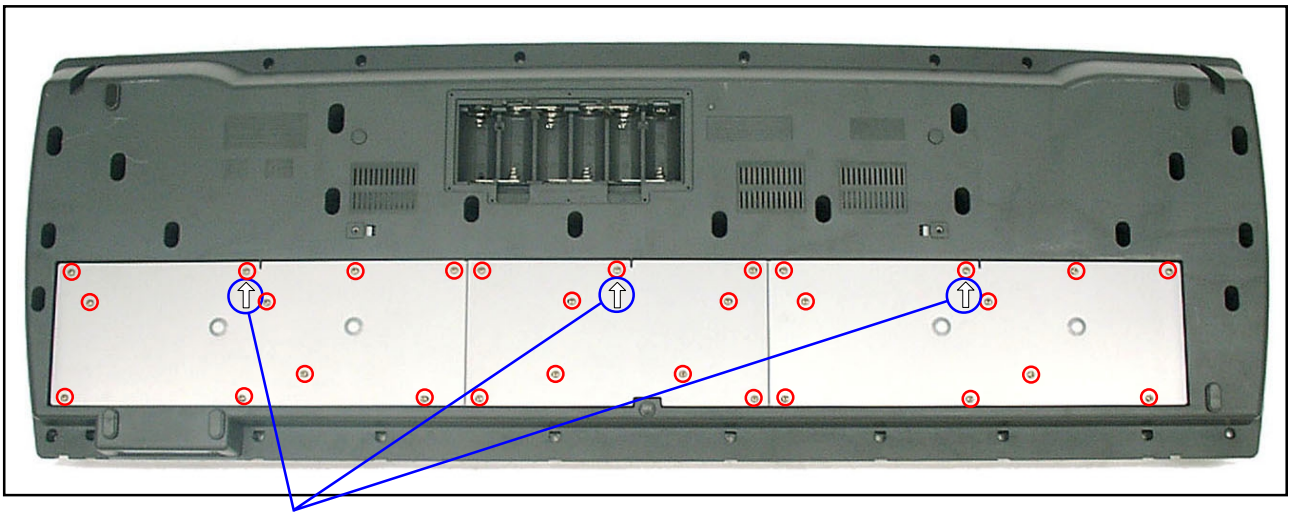
CN7M



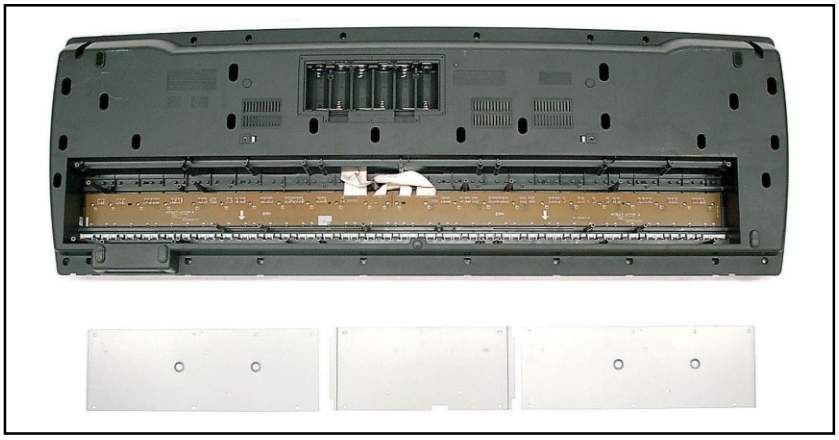
7. Remove 2 screws and then the Bender assy.



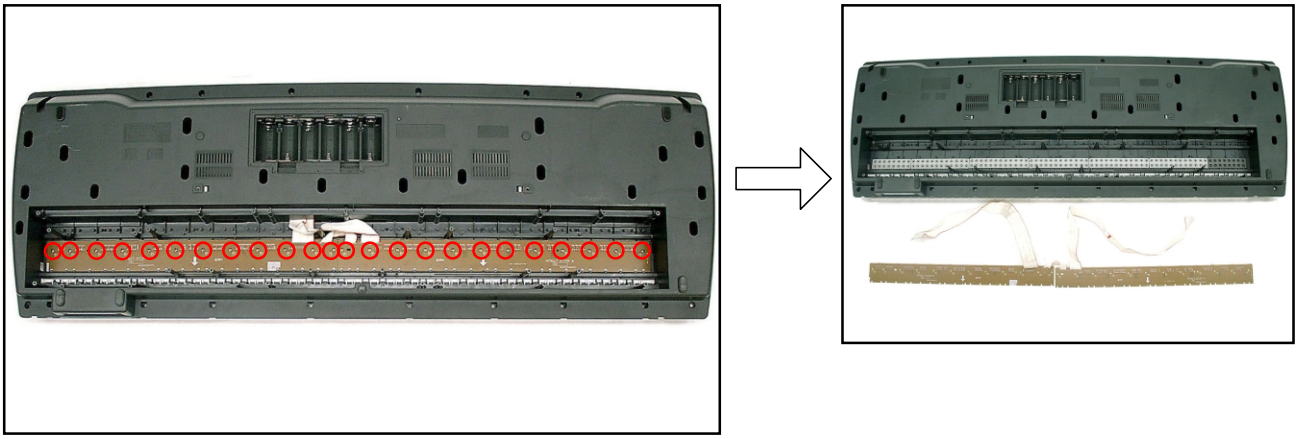
8. Remove 29 screws and then the lower case.



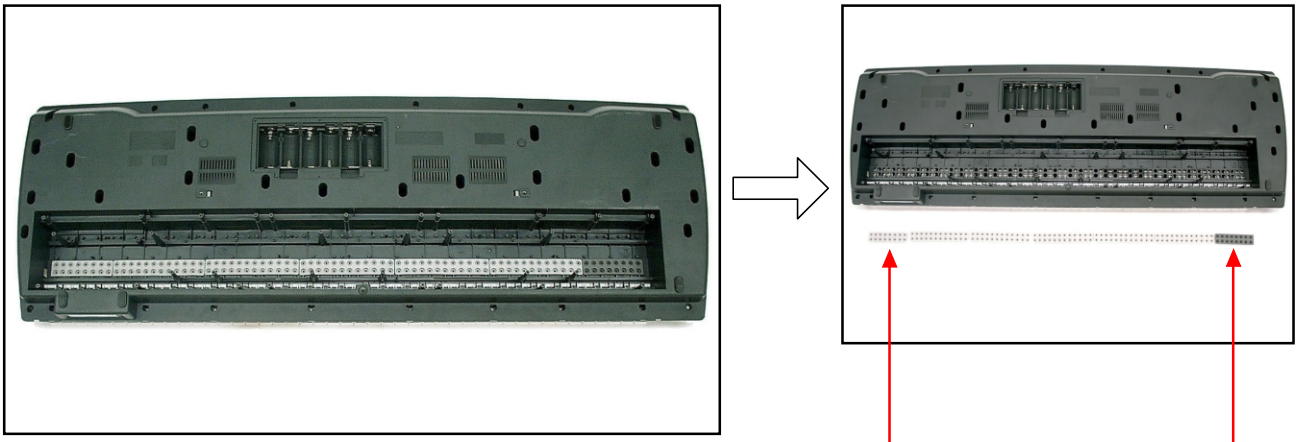
Note: Tighten the screw with the arrow mark in the figure first when reassembling.

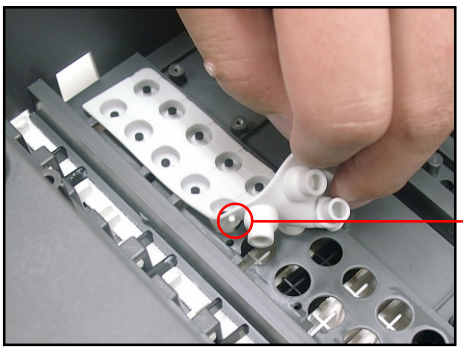


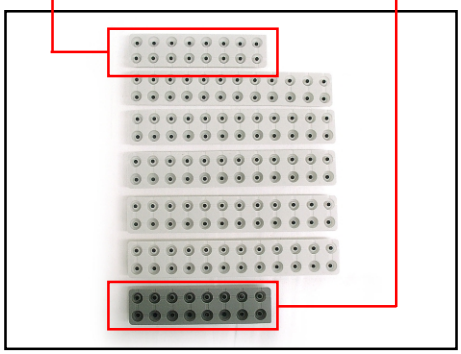
9. Remove 24 screws and then the PCB ASSY (KY1M, KY2M).



10.Remove the rubber keys.

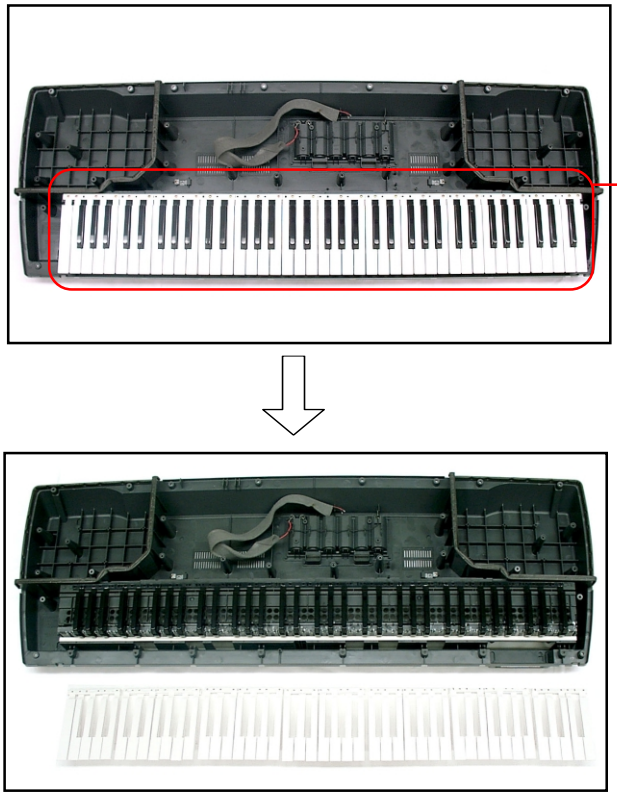


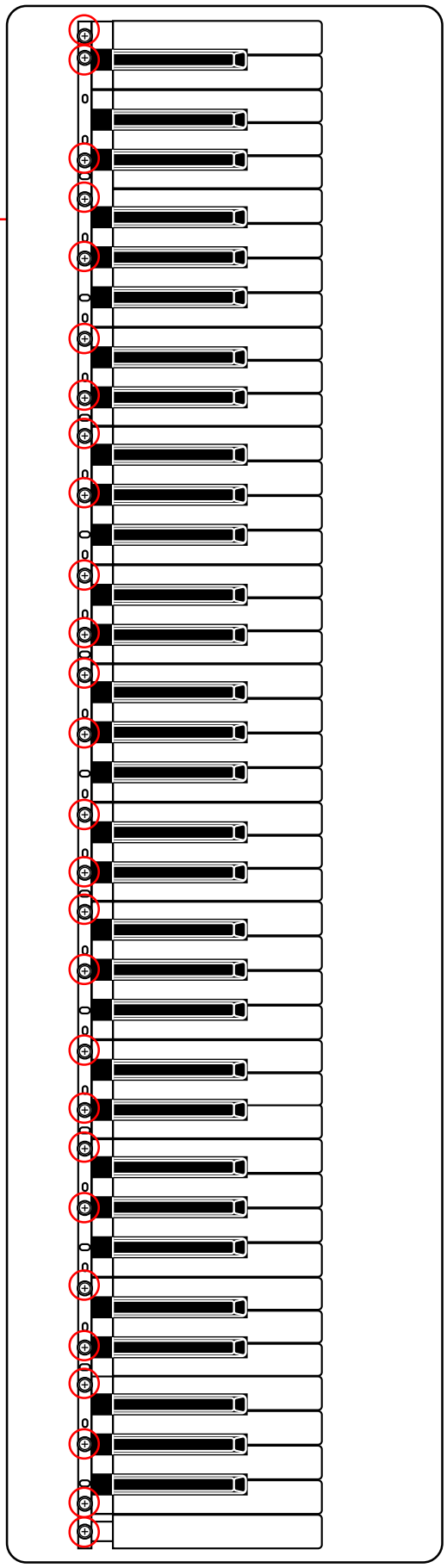




Note: Pay attention to the positions of the rubber keys as one of them has a different length.
Match the projections of the rubber keys with the holes of the lower case when reassembling.

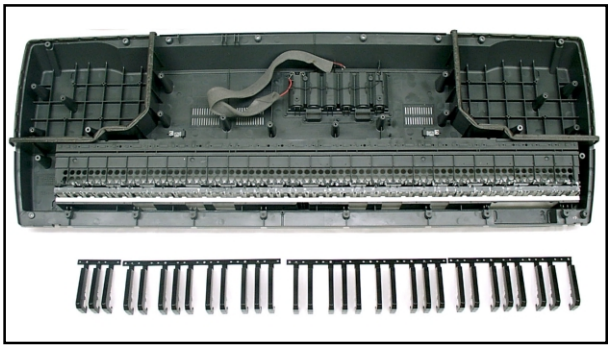
11. Remove 27 screws and then the white keys.





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

12. Remove the black keys.



DIAGNOSTIC PROGRAM

■Initial Setup

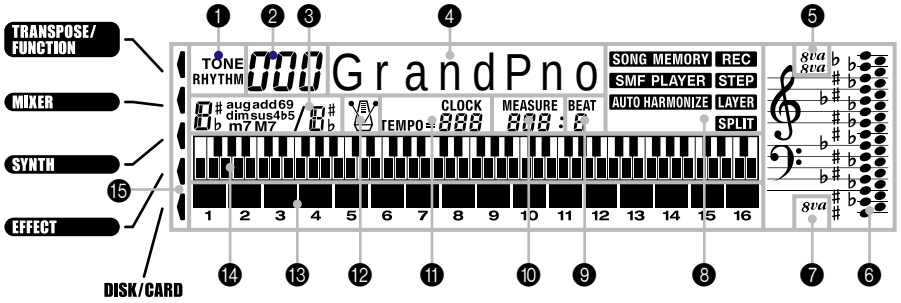
1. Connect an AC adaptor.
2. Connect a Sustain pedal.
3. "Main" volume: MAX.

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. After “000 Sy.Gr Pno” appears, release the “Cursor key UP” and “Cursor key Down” buttons. “TEST 734” appears on the LCD.

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



■ Diagnostic program

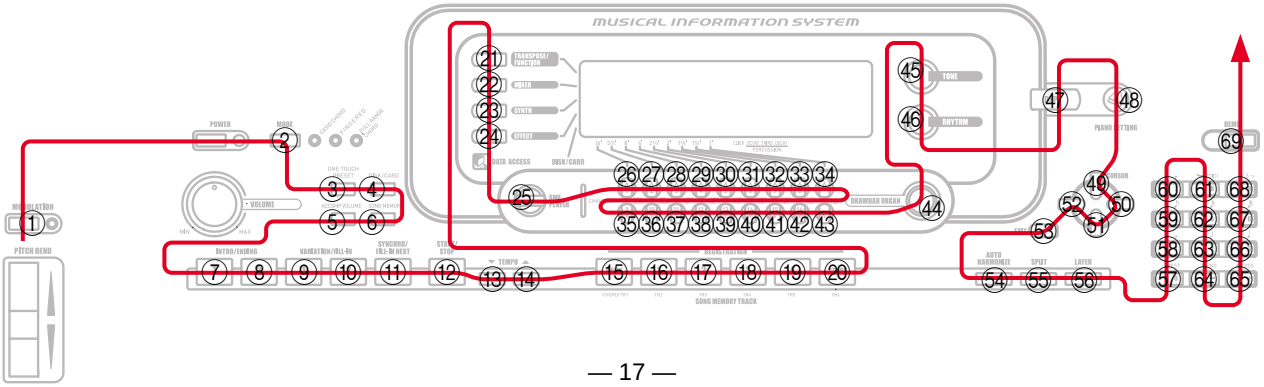
1. Button check

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 ❸

	Message on LCD		Message on LCD		Message on LCD		Message on LCD
① MODULATION	MODE	⑱ REGISTRATION 3	REGIST 4	㉟ CH 9	CH 10	㊷ Cursor key Left	EXIT
② MODE	OTP	⑲ REGISTRATION 4	STORE	㊱ CH 10	CH 11	㊸ EXIT	HARMO
③ ONE TOUCH PRESET	CARD	⑳ STORE	TRAN/FUNC	㊲ CH 11	CH 12	㊹ AUTO HARMONIZE	SPLIT
④ DISK/CARD	ACMO VOL	㉑ TRANSPOSE/FUNCTION	MIXER	㊳ CH 12	CH 13	㊺ SPLIT	LAYER
⑤ ACCOMP VOLUME	SONG	㉒ MIXER	SYNTH	㊴ CH 13	CH 14	㊻ LAYER	0
⑥ SONG MEMORY	INT/END1	㉓ SYNTH	EFFECT	㊵ CH 14	CH 15	㊼ 0 buttons	1
⑦ INTRO/ENDING 1	INT/END2	㉔ EFFECT	SMF	㊶ CH 15	CH 16	㊽ 1 buttons	4
⑧ INTRO/ENDING 2	VAR/FIL 1	㉕ SMF PLAYER	CH 1	㊷ CH 16	DSP CH	㊾ 4 buttons	7
⑨ VARIATION/FILL-IN 1	VAR/FIL 2	㉖ CH 1	CH 2	㊸ DSPN CH	DRAWBAR	㊿ 7 buttons	8
⑩ VARIATION/FILL-IN 2	SYNCHRO	㉗ CH 2	CH 3	㊹ DRAWBAR ORGAN	TONE	(61) 8 buttons	5
⑪ SYNCHRO/FILL-IN NEXT	STRT/STP	㉘ CH 3	CH 4	㊺ TONE	RHYTHM	(62) 5 buttons	2
⑫ START/STOP	TEMPO/DW	㉙ CH 4	CH 5	㊻ RHYTHM	DSP	(63) 2 buttons	-
⑬ TEMPO▼	TEMPO/UP	㉚ CH 5	CH 6	㊼ DSP	PIANO	(64) - buttons	+
⑭ TEMPO▲	BANK	㉛ CH 6	CH 7	㊽ PIANO SETTING	UP	(65) + buttons	3
⑮ BANK	REGIST 1	㉜ CH 7	CH 8	㊾ Cursor key Up	RIGHT	(66) 3 buttons	6
⑯ REGISTRATION 1	REGIST 2	㉝ CH 8	1Ft UP	㊿ Cursor key Right	DOWN	(67) 6 buttons	9
⑰ REGISTRATION 2	REGIST 3	㉞ UP	CH 9	(51) Cursor key Down	LEFT	(68) 9 buttons	DEMO
						(69) DEMO	SW OK



2. AC adaptor detection check.

Message on LCD

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).

❹ ACJ ON

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

① Press “RHYTHM” button. ❹ SUS CHK
② Press “Sustain pedal” . ❹ SUS ON
③ Release “Sustain pedal” . ❹ US OFF
④ NG sound, “OFF” sound this case, must be audible.

4. Low Voltage detection check.

① Press “DRAWBAR ORGAN” button. ❹ VOLT HI
② OK sound must be audible.

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 “CH3” button. ❹ MIDI OK
③ Disconnect the MIDI cable.

6. Sound Source check

① Press “7” button. ❹ TG MAX L
② The MAX sin sound sounds from Left spesker.
③ Press “8” button. ❹ TG MAX C
④ The MAX sin sound sounds from Both spesker.
⑤ Press “9” button. ❹ TG MAX R
⑥ The MAX sin sound sounds from Right spesker.

7. ROM check

① Press “INTRO/ENDING1” button.

❹ ROM CHK
↓
❹ ROM OK

8. Flash memory bus check

① Press “INTRO/ENDING2” button.

❷ 000
❹ FMB CHK
↓
❹ FMB OK

9. DSP RAM check

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

10. CPU RAM check

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

11. LED check

① Press “TEMPO▼” button.
② LEDs illuminate in the following order.

a . MODULATION
b . FULL RANGE CHORD
c . FINGERED
d . CASIO CHORD
e . DATA ACCESS
f . DRAWBAR ORGAN
g . DSP

❹ LED CHK
↓
↓
↓
↓
↓
↓
↓
↓
❹ LED END

12. LCD check

Message on LCD

① Press “TEMPO▲” button.
② Turn on all segments of the LCD.
③ Press “BANK” button.
④ The area ❹ turns as check pattern.
⑤ Press “REGISTRATION 1” button.
⑥ The area ❹ turns as check pattern.
⑦ Press “REGISTRATION 2” button.
⑧ Half of characters in area ❶ to ⓯ turn on. — Except area ❹
⑨ Press “REGISTRATION 3” button. — Except area ❹
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

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.

❹ SMC CHK
↓
❹ CARD OK

14. Bender check

① Press “MODE” button. — ❹ BEND CHK
② Turn the “PITCH BEND WHEEL” to MAX. — ❷ 127
❹ BEND CHK
③ Turn the “PITCH BEND WHEEL” to MIN. — ❷ 000
❹ BEND OK

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

① Connect the TUNING METER to the phone jack.
② Press “CH8” button.
③ The TUNING METER must indicate "C".
④ Disconnect the TUNING METER from the phone jack.

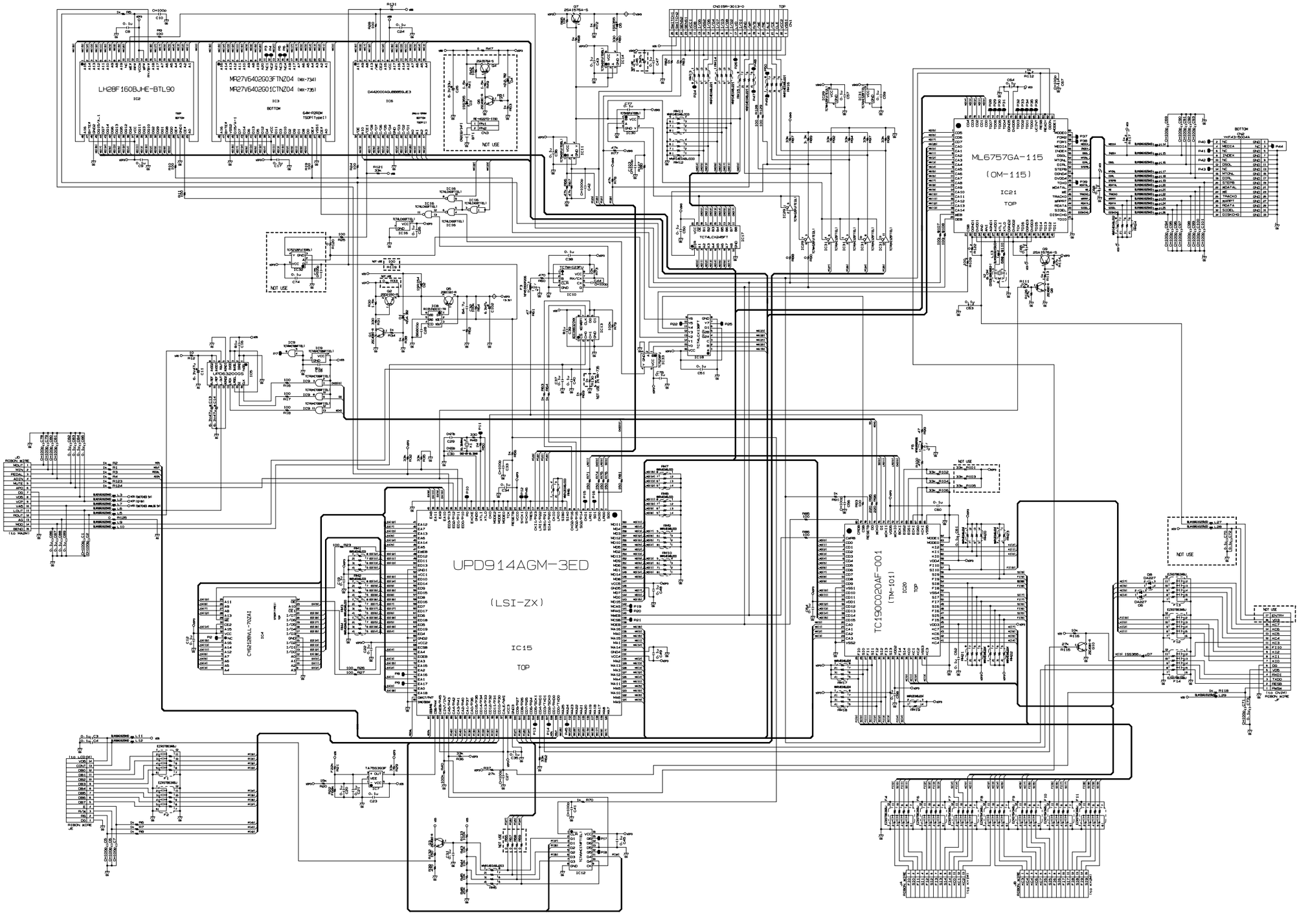
16. APO check

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

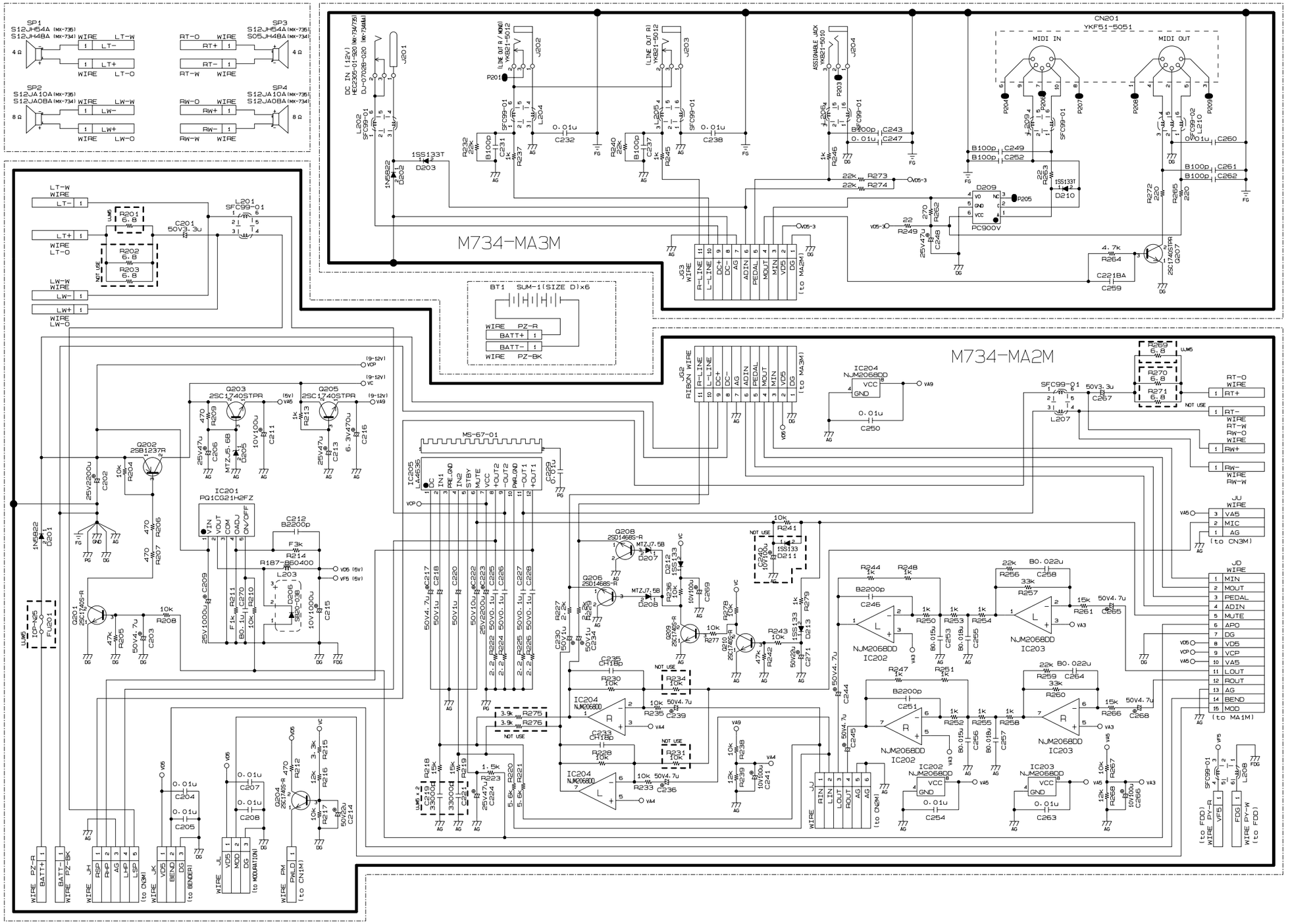
DIAGNOSTIC PROGRAM IS FINISHED.

SCHEMATIC DIAGRAMS

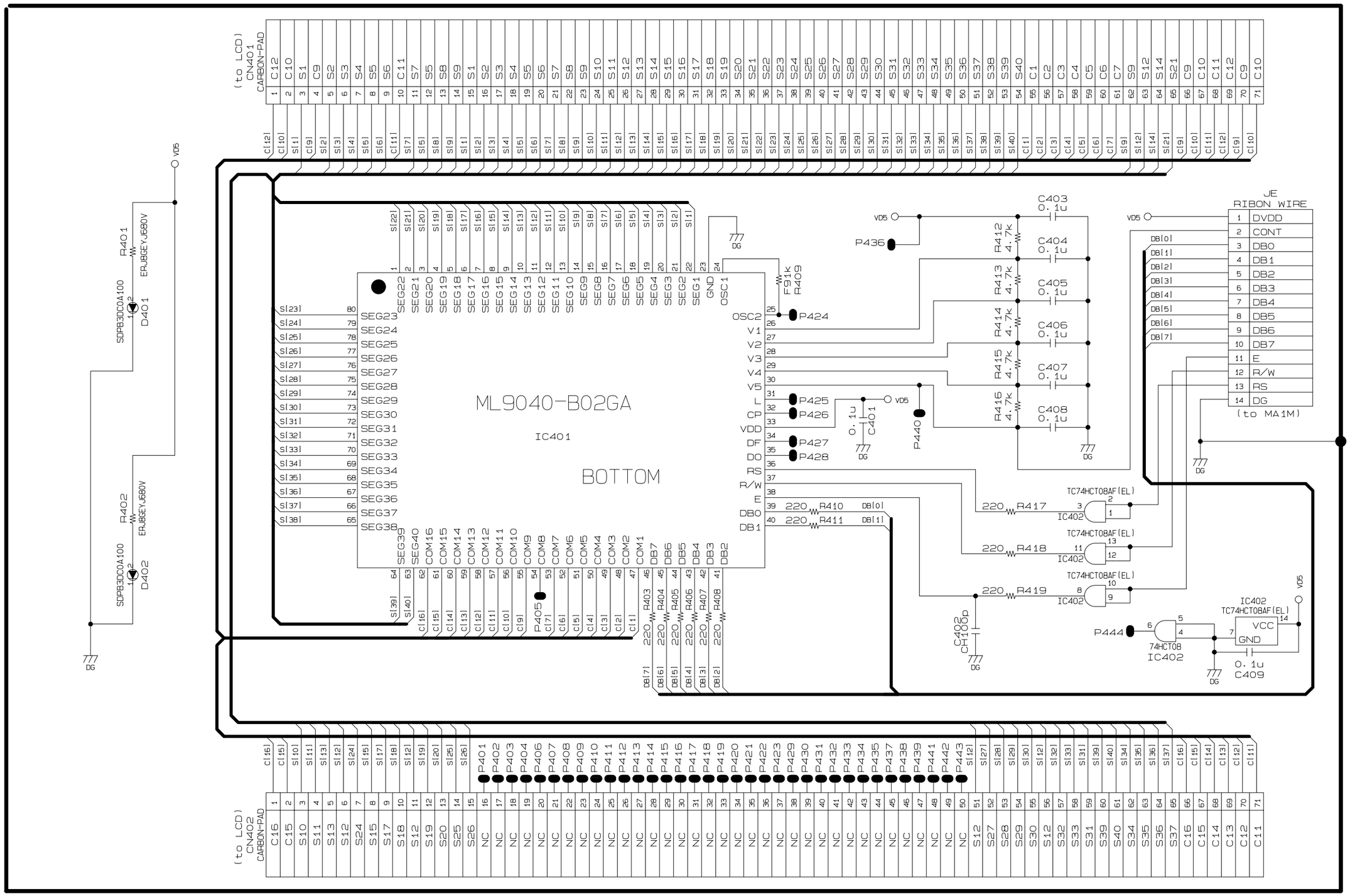
MainPCB M734-MA1M



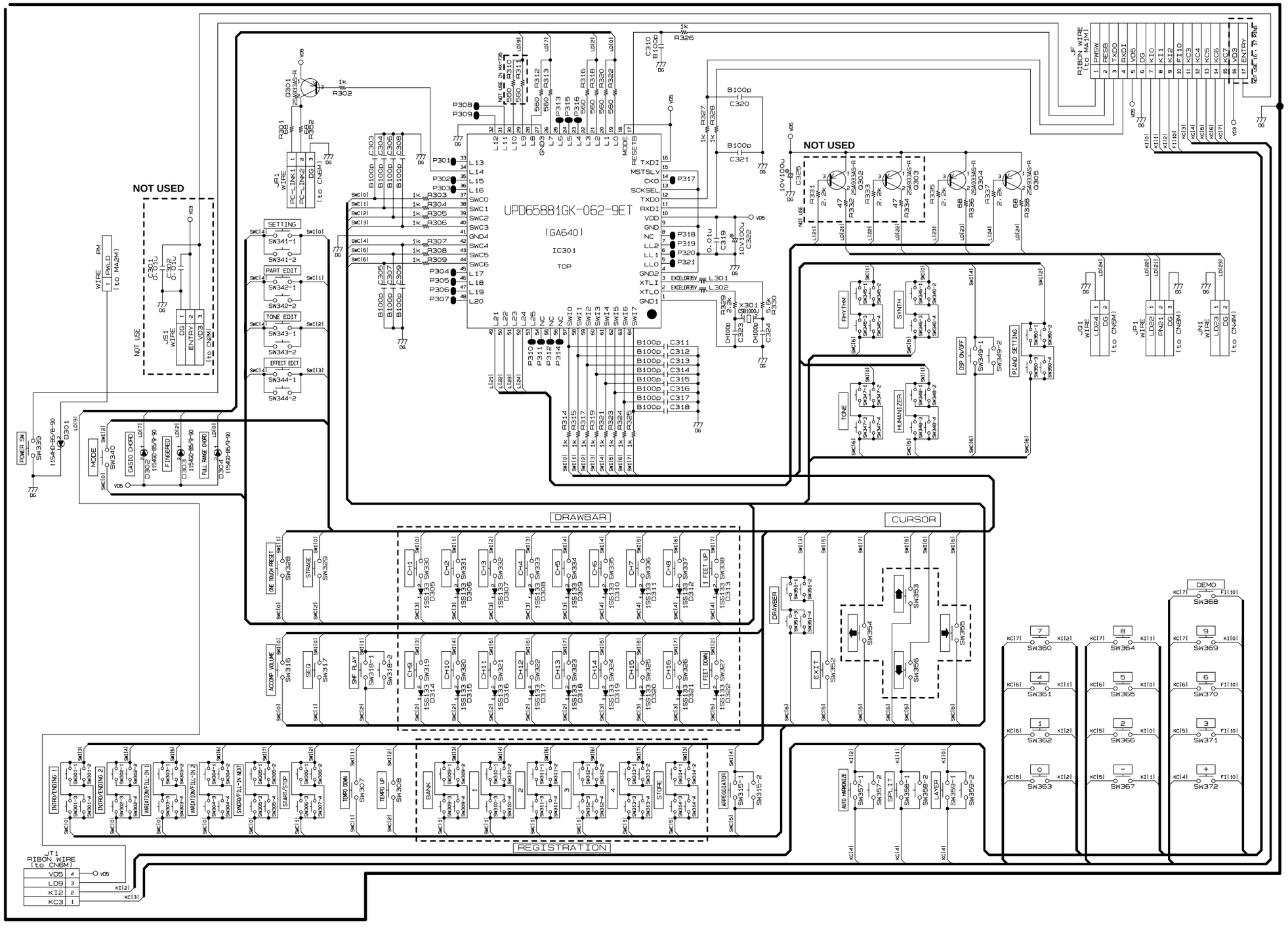
Sub PCBs M734-MA2M/MA3M



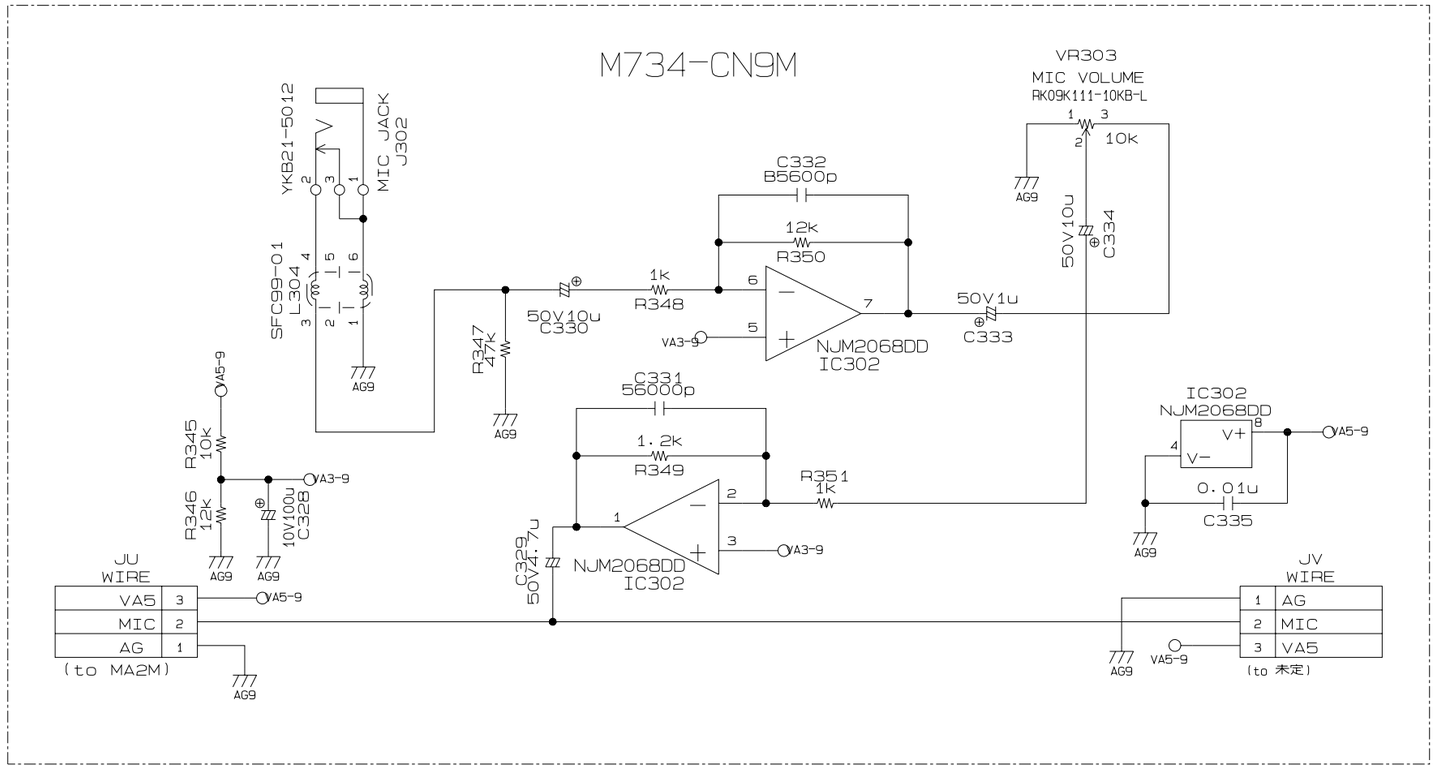
LCD PCB M734-LCD1M

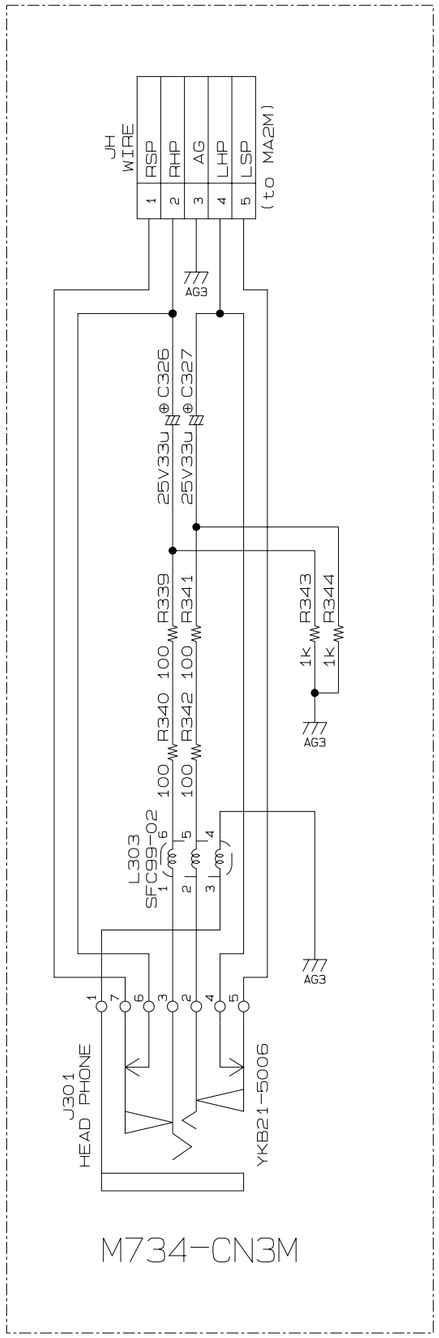


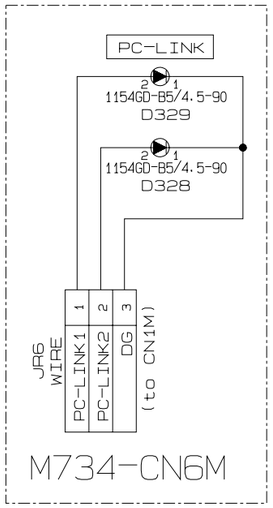
Console PCB CN1M

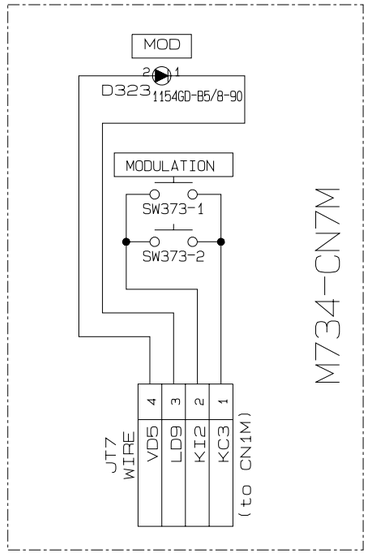


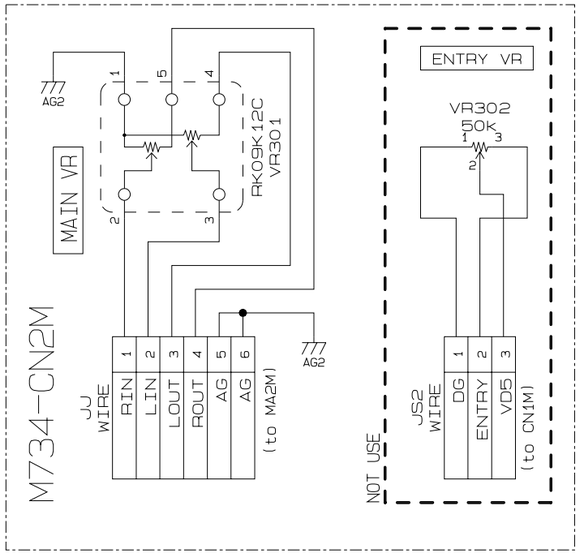
Console PCBs CN2M/CN3M/CN4M/CN5M/CN6M/CN7M/CN9M

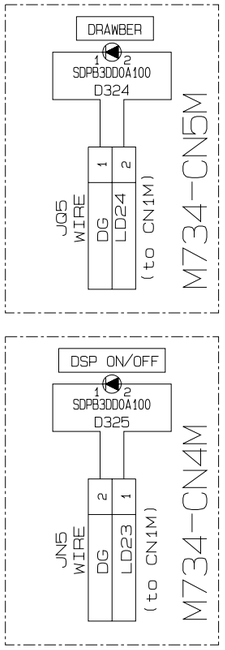


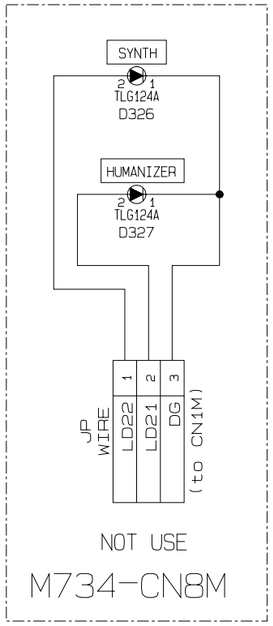




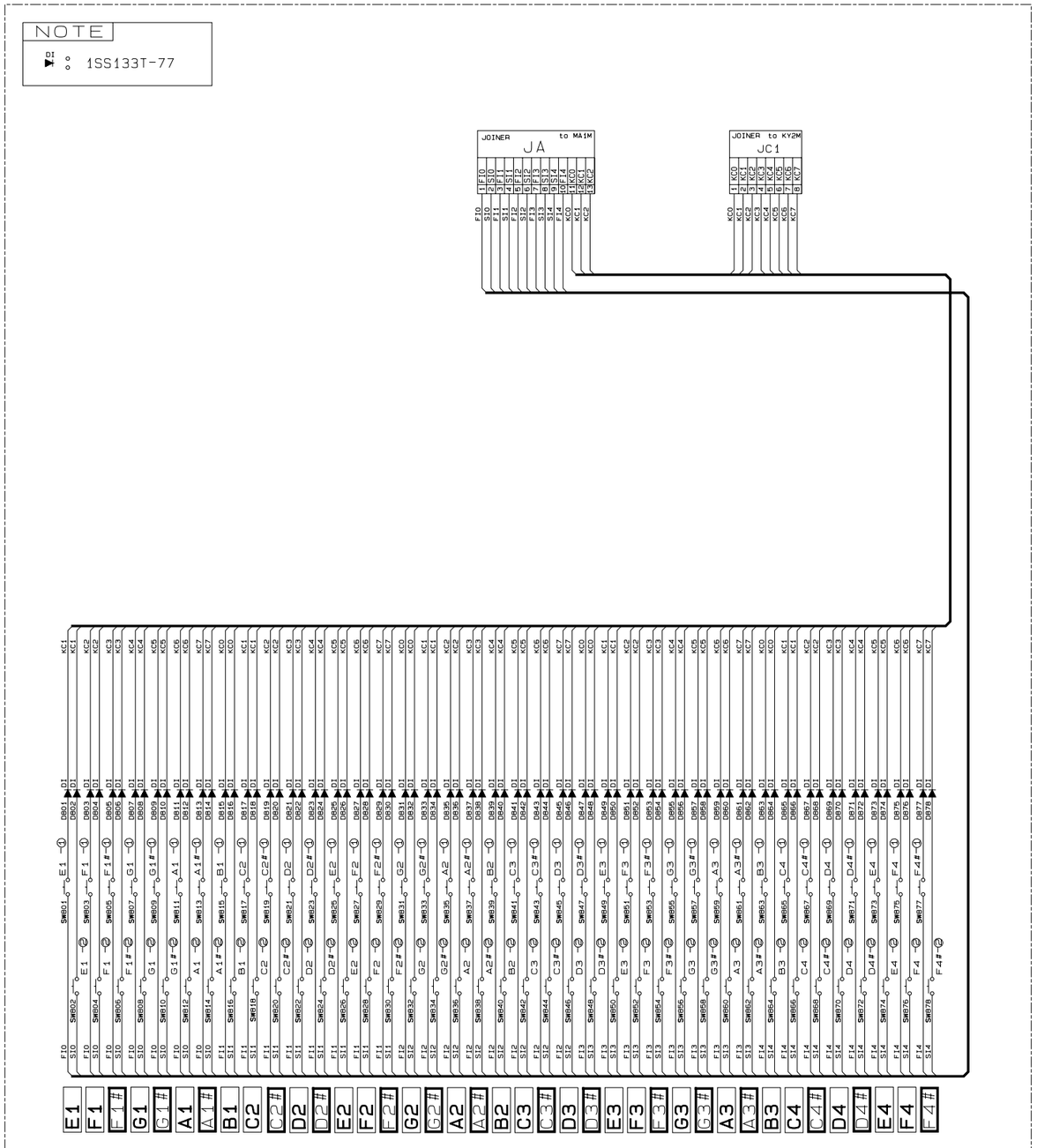


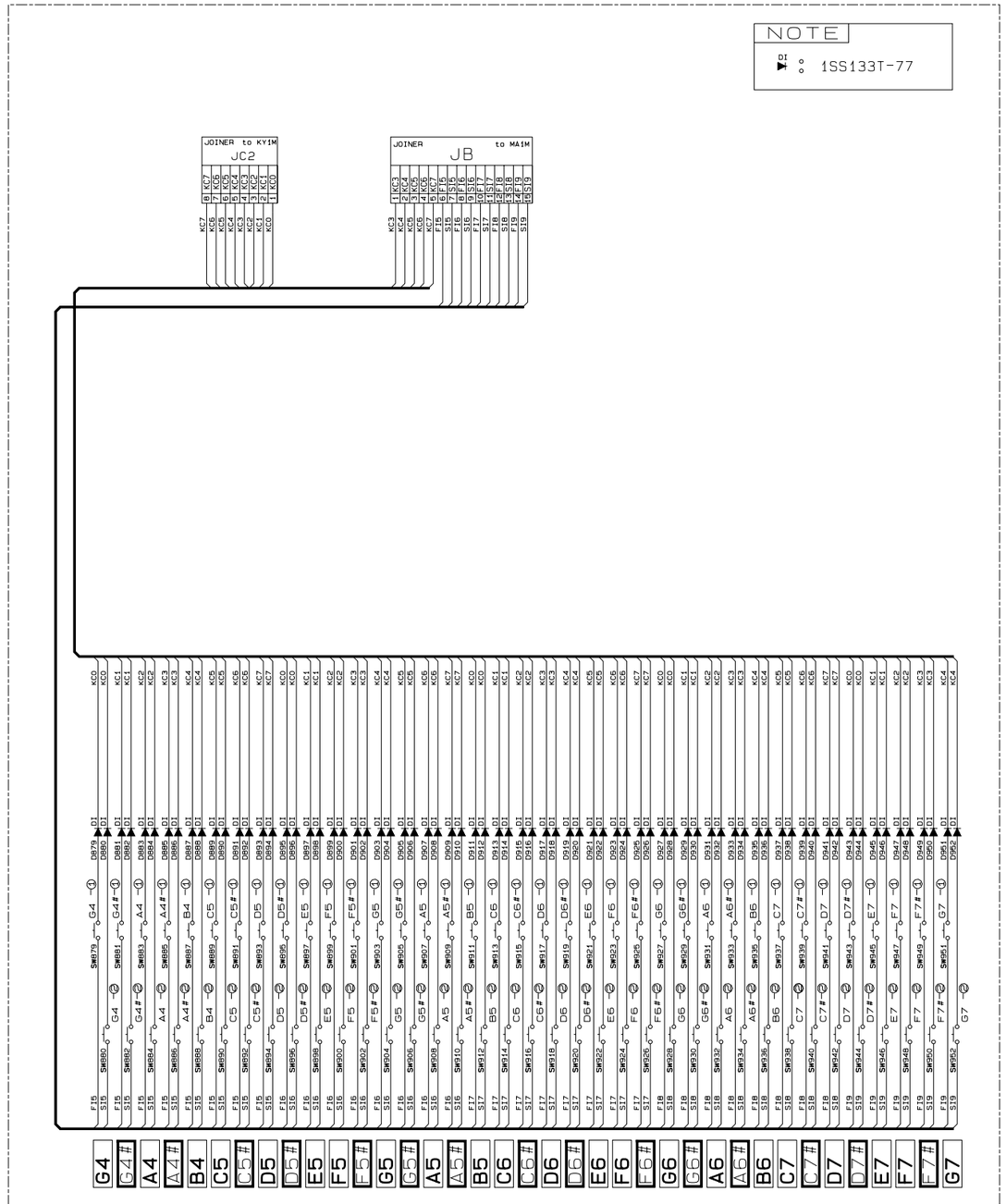




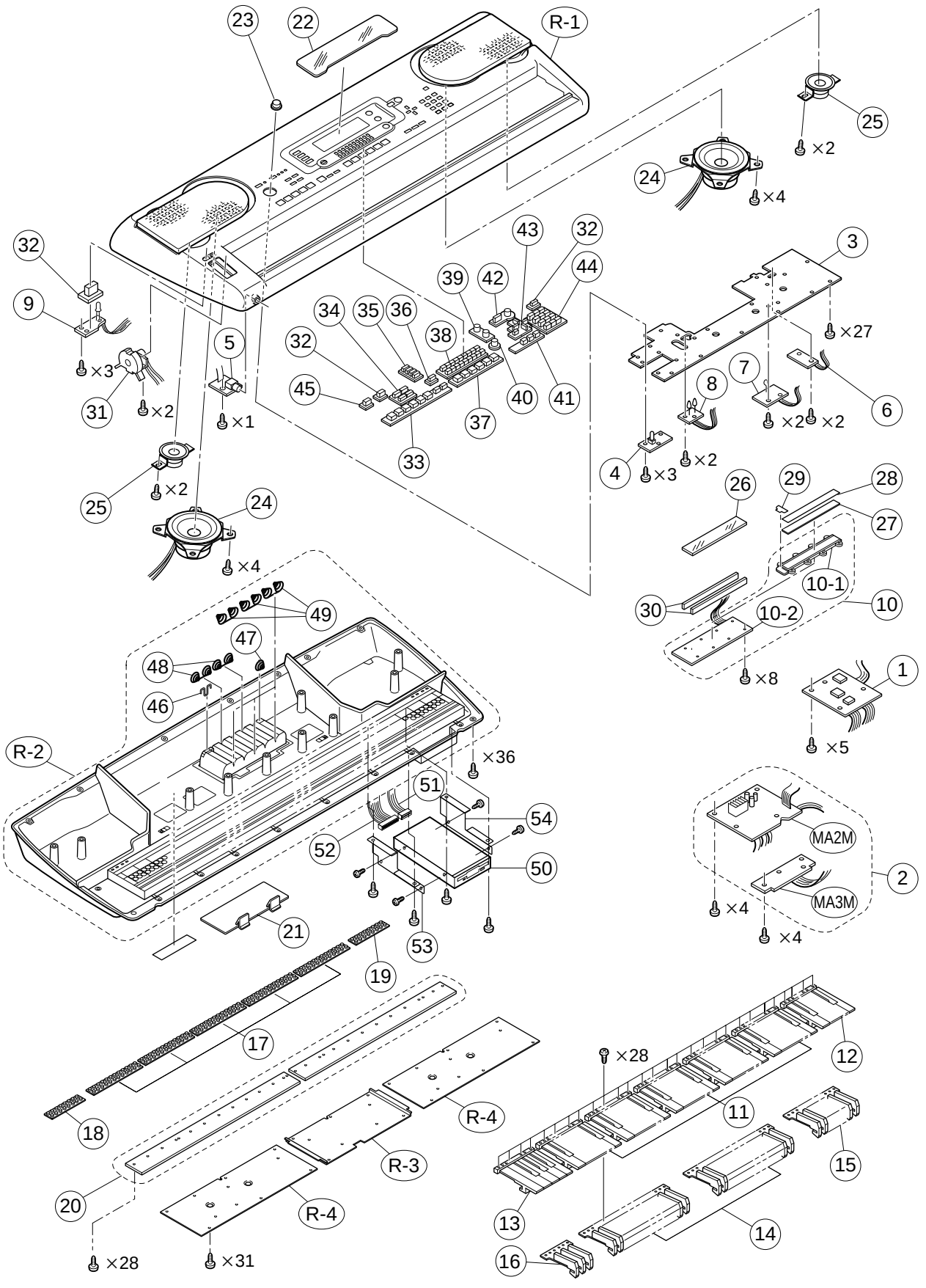


Keyboard PCBs JCM764T-KY1M/KY2M





EXPLODED VIEW



PARTS LIST

WK-3500

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	Q	Price Code	R	Remarks
	Main PCB MA1M							
N	1	1012 8736	PCB ASSY/MA1M	TK-RJM502981*002	1	DW	A	
	IC2	1012 2526	LSI	LH28F160BJHE-BTL90	1	BD	B	
N	IC3	1012 9320	LSI	R27V6402G01CTNZ04	1	BQ	B	
	IC4	1012 6397	LSI	CY62128VLL-70ZAIT	1	AX	B	
	IC5	2105 6665	IC	UPD63200GS-E1	1	AX	B	
	IC6	1012 1554	LSI	D442000AGUBB859JE3	1	BG	B	
	IC7	2105 4158	IC	TA75S393F(TE85L)	1	AC	B	
	IC8	6932 0063	IC	R1151N001C-TR	1	AF	B	
	IC9	6930 9981	IC	TC74VHCT08AF(EL)	1	AC	B	
	IC10	1012 3005	IC	TC7WH123FU(TE12L)	1	AF	B	
	IC11,14	1008 1273	IC	TC7SH00FU(TE85L)	2	AB	B	
	IC12	1012 3002	IC	TC74VHC174FT(EL)	1	AD	B	
	IC13	1012 1552	IC	ADC08832IMX	1	AR	B	
	IC15	1005 4502	LSI	UPD914AGM-3ED	1	CK	B	
	IC16	1012 2999	IC	TC74LCX00FT(EL)	1	AB	B	
	IC17	2105 6576	IC	TC74LCX245FT(EL)	1	AF	B	
	IC18	2105 6621	IC	TC74LCX138FT(EL)	1	AF	B	
	IC20	2012 5987	LSI	TC190C020AF-001	1	BC	B	
	IC29	2105 6473	IC	TC7WH125FU(TE12L)	1	AF	B	
	IC30	6930 9994	IC	TC7SH32FU(TE85L)	1	AB	B	
	IC31	1012 3000	IC	TC74VHC125FT(EL)	1	AD	B	
	IC33	6930 9995	IC	TC7SZ08FU(TE85L)	1	AD	B	
	Q1,3,8,10	2252 1169	TRANSISTOR	2SC4081T106S	4	AA	C	
	Q2	2259 2757	TRANSISTOR	2SD2150-T100R	1	AB	C	
	Q5	1001 5566	TRANSISTOR	2SB1181TLR	1	AC	C	
	Q7,Q9	2250 1169	TRANSISTOR	2SA1576AT106S	2	AA	C	
	D1	1012 3121	DIODE	UDZSTE-174.3B	1	AA	C	
	D2	2390 2058	DIODE	1SR154-400TE25	1	AB	C	
	D5,7	2390 1820	DIODE	1SS355TE-17	2	AA	C	
	D6,8	2775 2079	DIODE	DA227-TL	2	AA	C	
	L2,3	1012 2963	COIL	BLM21AG102SN1D	2	AC	C	
	L5,6,7,9, 10,11,12, 14-26,29	1009 5204	COIL	BLM18AG102SN1D	21	AA	C	
	CN1	1006 2669	CONNECTOR	CN015R-3013-0	1	AT	C	
	X1	1005 9360	OSCILLATOR/CRYSTAL	SMD-49-16.384M	1	AI	C	
N	L13	3045 0028	COIL	BK1608HS601-T	1	AA	C	
	Sub PCB MA2M							
N	2	1012 8737	PCB ASSY/MA2-3M	TK-RJM502983*003	1	CR	B	
	IC201	6932 0061	IC	PQ1CG21H2FZ	1	AO	B	
	IC202,203, 204	2121 0072	IC	NJM2068DD	3	AD	B	
	IC205	1006 2671	IC	LA4636	1	AV	B	
	Q201,203, 204,205,207, 209,210	2250 1627	TRANSISTOR	2SC1740STPS	7	AA	C	
	Q202	2250 1591	TRANSISTOR	2SB1237TV2R	1	AB	C	
	D201,202	1009 4579	DIODE	1N5822	2	AC	C	
	D203,210, 212,213	2315 3132	DIODE	1SS133T-77	4	AA	C	
	D205	1011 5969	DIODE	DZ5.6BSBTP	1	AA	C	
	D206	2390 1463	DIODE	SB20-03B	1	AD	C	
	D209	2114 1421	PHOTO COUPLER	PC900V	1	AK	C	
	CN201	3501 4816	JACK/DIN	YKF51-5051	1	AH	C	
	J201	3501 5012	JACK/DC	HEC2305-01-920	1	AC	C	
	J204	3612 0789	JACK	YKB21-5010	1	AC	C	

Notes: **N-** New parts
Q- Quantity used per unit
R- Rank

R-A: Essential
B: Stock recommended
C: Others
X: No stock recommended

N	Item	Code No.	Part Name	Specification	Q	Price Code	R	Remarks
	L201,202, 204,205,206, 207,208,209	1005 6228	COIL	R2318-RB53-856397	8	AB	C	
	L203	1007 1755	COIL	R187-860400	1	AF	C	
	L210	1005 7360	COIL	R2318-RB53-856396	1	BB	C	
	Console PCB CN1M~CN7M							
	3	1012 3295	PCB ASSY/CN1M	TK-RJM502984*001	1	BT	B	
	4	1012 3296	PCB ASSY/CN2M	TK-RJM502985*001	1	BN	B	
	5	1012 3297	PCB ASSY/CN3M	TK-RJM502986*001	1	BM	B	
	6	1012 3298	PCB ASSY/CN4M	TK-RJM502987*001	1	BN	B	
	7	1012 3299	PCB ASSY/CN5M	TK-RJM502988*001	1	BN	B	
	8	1012 3300	PCB ASSY/CN6M	TK-RJM502989*001	1	BJ	B	
	9	1012 3301	PCB ASSY/CN7M	TK-RJM502990*001	1	BJ	B	
	IC301	6932 4293	LSI	UPD65881GK-062-9ET	1	AT	B	CN1M
	Q301,304,305	1002 5037	TRANSISTOR	2SA933STPS	3	AA	C	CN1M
	D305-322	2315 3132	DIODE	1SS133T-77	18	AA	C	CN1M
	D302-304	1012 2219	LED	1154GD-B5/9-90	3	AD	C	CN1M
	D301	1012 3008	LED	1154GD-B5/8-90	1	AD	C	CN1M
	L301,302	6932 1437	FERRITE BEAD	BB36-851665	1	AA	C	CN1M
	X301	2529 2032	OSCILLATOR/CERAMIC	CSB1000J	1	AC	C	CN1M
	VR301	1012 3103	VARIABLE RESISTOR	RK09K12C0D1B	1	AH	C	CN2M
	J301	3612 0665	JACK/PHONE	JYB21-5006	1	AG	C	CN3M
	D325	1012 6405	LED	SDPB3DD0A100DEFGHI	2	AH	C	CN4M
	D324	1012 6405	LED	SDPB3DD0A100DEFGHI	2	AH	C	CN5M
	D328,329	1012 3006	LED	1154GD-B5/4.5-90	1	AD	C	CN6M
	D323	1012 3008	LED	1154GD-B5/8-90	1	AD	C	CN7M
	BL assy							
	10	1012 3292	BACK LIGHT ASSY	TK-RJM503021*001	1	BW	B	
	10-1	1012 3033	REFLECTOR	RJM502534-001V01	1	AD	C	
	10-2	1012 3302	PCB ASSY/LCD1M	TK-RJM502995*001	1	BO	B	
	IC401	1000 6502	LSI	ML9040-B02GA	1	AU	B	
	IC402	1012 2996	IC	TC74HCT08AF(EL)	1	AB	B	
	Key board assy							
	11	6922 2720	KEY SET/LT WHITE	M312118*1	5	AP	C	
	12	6923 7900	KEY SET/LT76R WHITE	M340231*1	1	AO	C	
	13	6923 7910	KEY SET/LT76L WHITE	M340230*1	1	AO	C	
	14	6906 8482	KEY SET/LS BLACK	M140369B-3	2	AH	C	
	15	1002 5058	KEY SET/LSK-8P BLACK	M140369-8	1	AH	C	
	16	1002 5059	KEY SET/LSK-3P BLACK	M140369-7	1	AN	C	
	17	1002 5055	RUBBER/CONTACT CB	M241297-1	5	AJ	C	
	18	1002 5054	RUBBER/CONTACT EB	M241298-1	1	AH	C	
	19	1002 5060	RUBBER/CONTACT CG	M241299-1	1	AH	C	
	20	1012 3289	PCB ASSY/KY1-2M	TK-RJM503000*001	1	BT	B	
	D801~D952	2315 3132	DIODE	1SS133T-77	152	AA	C	
	Case Unit							
	21	1002 5069	COVER/BATTERY	TK-M341288*1	1	AV	C	
	22	1012 8668	PLATE/DISPLAY	RJM502476-002V01	1	AP	C	
	23	1012 3034	KNOB/ROTARY	M341109-002V01	1	AC	C	
	24	1013 0442	SPEAKER	S12JA10A	2	BG	C	
	25	1013 0441	SPEAKER	S05JH54A	2	AS	C	
	26	1012 6412	LCD	WK-TZB637-TH-A	1	BV	C	
	27	1012 2917	PLATE/BACK LIGHT	RJM502475-001V01	1	AP	X	
	28	1012 2970	FILM	RJM502473-001V01	1	AA	X	

Notes:
N- New parts
Q- Quantity used per unit
R- Rank

R-A: Essential
B: Stock recommended
C: Others
X: No stock recommended

N	Item	Code No.	Part Name	Specification	Q	Price Code	R	Remarks
	29	1008 1190	PIECE/TOP	RJM501982-001V01	2	AA	X	
	30	1012 2965	CONNECTOR	RJM502474-001V01	1	AI	C	
	31	1012 3294	BENDER ASSY	TK-M340804*008	1	BC	C	
N	32	1012 8669	RUBBER/KEY/A	RJM502517-002V01	1	AA	C	
N	33	1012 8670	RUBBER/KEY/B	RJM502518-002V01	1	AH	C	
N	34	1012 8671	RUBBER/KEY/C	RJM502519-002V01	1	AB	C	
	35	1012 3038	RUBBER/KEY/D	RJM502520-001V01	1	AB	C	
N	36	1012 8673	RUBBER/KEY/E	RJM502521-002V01	1	AA	C	
N	37	1012 8674	RUBBER/KEY/F	RJM502522-002V01	1	AG	C	
N	38	1012 8675	RUBBER/KEY/G	RJM502523-002V01	1	AH	C	
	39	1012 3042	RUBBER/KEY/H	RJM502524-001V01	1	AB	C	
	40	1012 3043	RUBBER/KEY/J	RJM502525-001V01	1	AA	C	
N	41	1012 8677	RUBBER/KEY/K	RJM502526-002V01	1	AB	C	
	42	1012 3046	RUBBER/KEY/L	RJM502527-001V01	1	AD	C	
N	43	1012 8682	RUBBER/KEY/M	RJM502870-002V01	1	AC	C	
N	44	1012 8678	RUBBER/KEY/N	RJM502529-002V01	1	AG	C	
N	45	1012 8679	RUBBER/KEY/P	RJM502530-002V01	1	AA	C	
	46	1003 6658	SPRING/BATTERY/(+)	M441101A-1	1	AA	X	
	47	1003 6659	SPRING/BATTERY/(-)	M441102A-1	1	AC	X	
	48	1003 6660	SPRING/BATTERY	M441099A-1	2	AC	X	
	49	1003 6661	SPRING/BATTERY	M441100A-1	3	AC	X	
N	50	1012 8657	FDD	702D-6238D-05007	1	CY	C	
	51	1013 0438	CONNECTOR	AMP-2P-120-M735	1	AI	C	
	52	1013 0439	CABLE/FDD	CA-X125-070-A13	1	AW	C	
	53	1002 5048	BLACKET L/FDD	M341272-1	1	AD	C	
	54	1002 5046	BLACKET R/FDD	M341273-1	1	AD	C	
		Accessary						
	-	1012 8685	FLOPPY DISK	WK3500FD-1	1	AG	X	
	-	1012 9831	LABEL/RATING	M341007-042V01	1	AA	X	
	-	6932 0726	STAND/MUSIC	M141071-3	1	AT	X	
		Refurbish						
N	R-1	1012 8735	CASE SUBASSY/UPPER	TK-RJM503104*001	1	CX	X	
N	R-2	1012 8733	CASE SUBASSY/MIDDLE	TK-M141081*009	1	CX	X	Except USA
N	R-2	1012 8734	CASE SUBASSY/MIDDLE	TK-M141081*010	1	CW	X	Only USA
	R-3	1002 5065	PLATE/LOWER/A	M341268-1	1	AM	X	
	R-4	1002 5066	PLATE/LOWER/B	M241302-1	2	AP	X	

Notes: **N-** New parts
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R-A: Essential
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Ver.1 : Feb. 2005
Correction of the PARTS LIST (P29)

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