

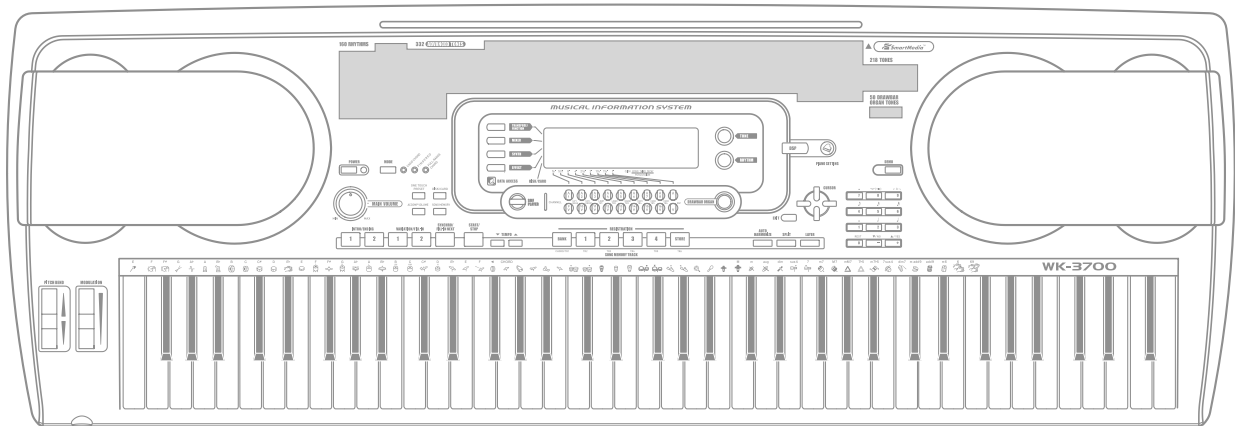
CASIO[®]

Service Manual

(without price)

WK-3700

MAY. 2005



WK-3700

ELECTRONIC KEYBOARD

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SPECIFICATIONS

GENERAL

Keyboard:	76 standard-size keys, 6 1/4 octaves with touch response (OFF/1/2/3)																
Tones:	332 Advanced Tones + 200 Preset Tones + 18 Drum Sets + 100 standard user tones + 20 user tones with waves* + 4 user drum sets with waves* + 50 drawbar organ tones + 100 user drawbar organ tones (824 tones total); layer/split																
Polyphony:	32 notes maximum (10 for certain tones)																
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:	176 (internal, 16 user areas*)																
Tempo:	Variable (226 steps, ♩ = 30 to 255)																
Chords:	3 fingering methods (CASIO CHORD, FINGERED, FULL RANGE CHORD)																
Rhythm Controller:	START/STOP, INTRO/ENDING 1 and 2, VARIATION/FILL-IN 1 and 2, SYNCHRO/FILL-IN NEXT																
Accomp Volume:	0 to 127 (128 steps)																
One-touch Presets:	Recalls settings for tone, tempo, layer on/off, and harmonize on/off in accordance with rhythm.																
Auto Harmonize:	10 types : Automatic addition of notes that harmonize with melody note in accordance with specified Auto Accompaniment chords.																
Memory Function																	
Songs:	5																
Recording Tracks:	6 (2 through 6 are melody tracks)																
Recording Methods:	Real-time, step																
Memory Capacity:	Approximately 10,000 notes (total for 5 songs)																
Edit Function:	Equipped																
Demo Tunes:	3																
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 15%;">Tune Number</th> <th style="width: 30%;">Name</th> <th style="width: 35%;">Composer</th> <th style="width: 20%;">Play Time</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>White Winter</td> <td>Hage Software</td> <td>2:32</td> </tr> <tr> <td>1</td> <td>Serendipity Waltz</td> <td>TECH-NOTE INTERNATIONAL LTD.</td> <td>2:01</td> </tr> <tr> <td>2</td> <td>Street Beatz</td> <td>Steve Turner</td> <td>2:10</td> </tr> </tbody> </table>	Tune Number	Name	Composer	Play Time	0	White Winter	Hage Software	2:32	1	Serendipity Waltz	TECH-NOTE INTERNATIONAL LTD.	2:01	2	Street Beatz	Steve Turner	2:10
Tune Number	Name	Composer	Play Time														
0	White Winter	Hage Software	2:32														
1	Serendipity Waltz	TECH-NOTE INTERNATIONAL LTD.	2:01														
2	Street Beatz	Steve Turner	2:10														
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																

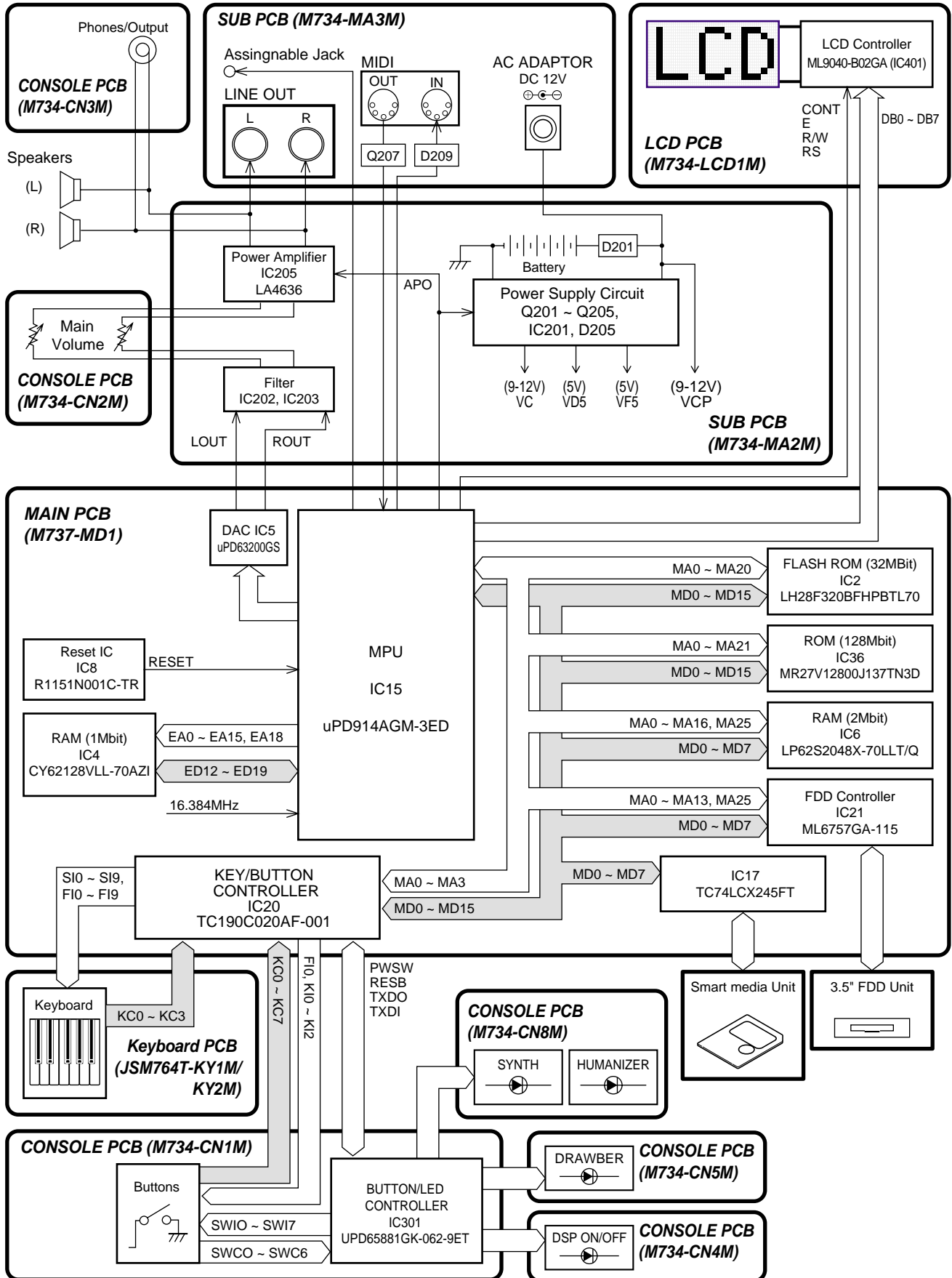
SMF Player:	Flash memory storage for up to 200 files*
Supported Format:	SMF0
Flash Memory	
Capacity:	4MB
Shared Area:	Approximately 3.5MB (waveform data, accompaniment data, SMF data) Further storage of waveform, accompaniment, and SMF data becomes impossible after the total of such data reaches approximately 3.5MB.
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)
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 × 16.0 cm (48 3/16 × 14 11/16 × 5 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:	
Consumption Current	1430 mA ± 20 %
Consumption Current at idle	230 mA ± 20 %
with 16 keys from E1 to F3 pressed in 479 Ocarinag	
Volume: maximum, Velocity: maximum	
Speaker output level (V _{rms} with 8 Ω load each channel):	
with key L(E1)/R(G1) in 479 Ocarinag	
Volume: maximum, Velocity: maximum	6000 mV ± 20 %
Phone output level (V _{rms} with 32 Ω load each channel):	
with key L(E7)/R(G7) in 479 Ocarinag	
Volume: maximum, Velocity: maximum	400 mV ± 20 %
Output level (V _{rms} with 47 KΩ load each channel):	
with key L(E1)/R(G1) in 479 Ocarinag	
Volume: maximum, Velocity: maximum	3200 mV ± 20 %

BLOCK DIAGRAM

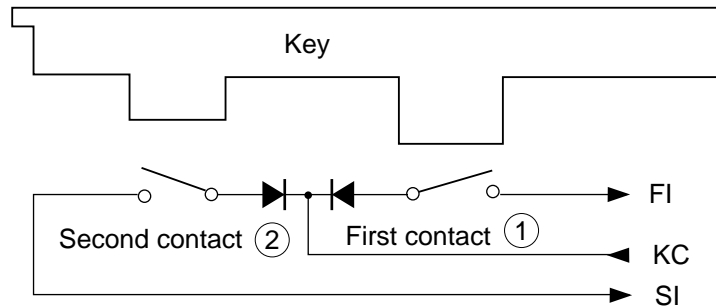


CIRCUIT DESCRIPTION

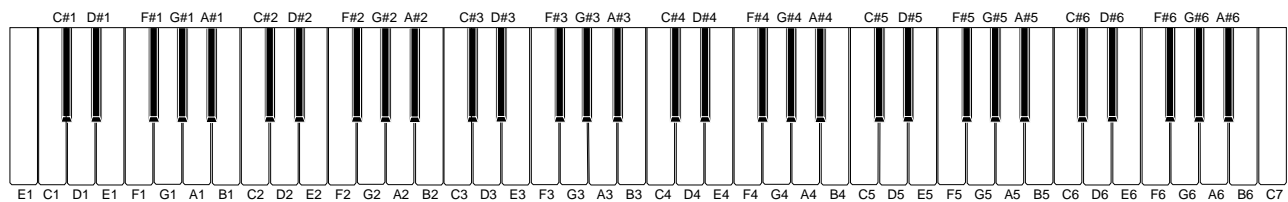
KEY MATRIX

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

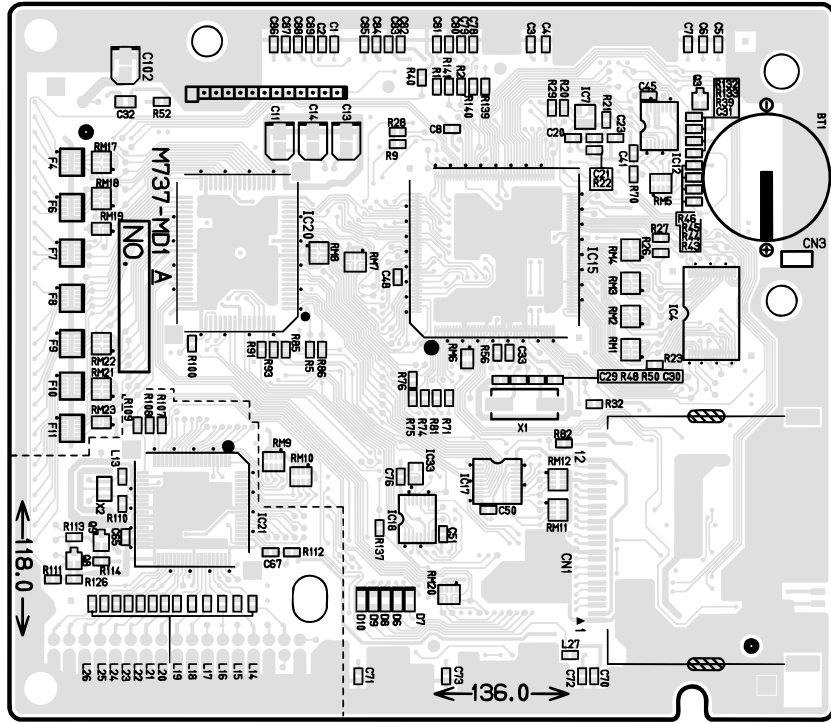
	KI0	KI1	KI2	FI10
KC4	LAYER	SPLIT	AUTO HARMONIZE	+
KC5	2	-	0	3
KC6	5	4	1	6
KC7	9	8	7	DEMO

KEY LED MATRIX

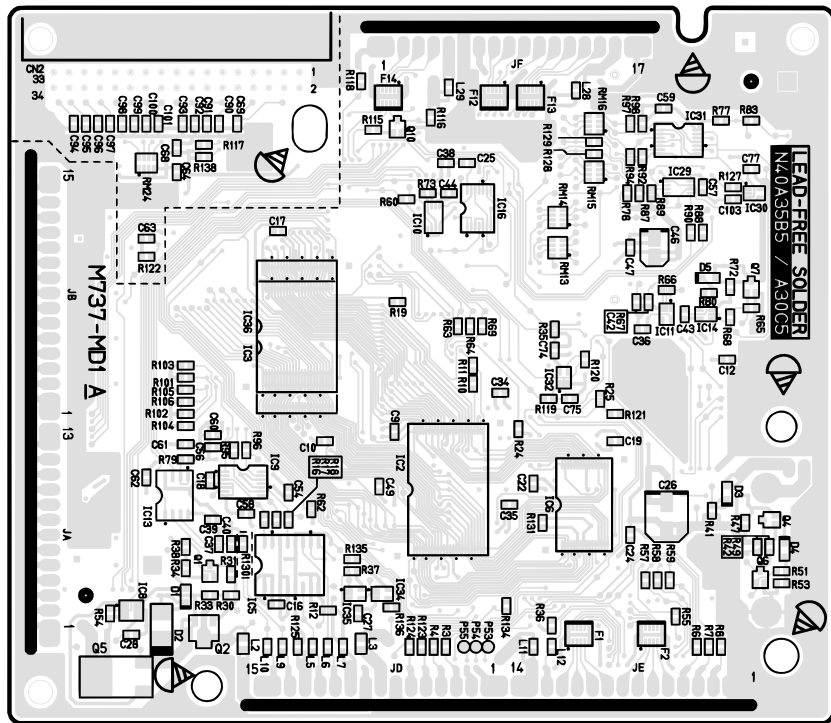
	SWI0	SWI1	SWI2	SWI3	SWI4	SWI5	SWI6	SWI7
SWC0	ACCOMP VOLUME	ONE TOUCH PRESET	MODE	INTRO/ ENDING 1	INTRO/ ENDING 2	VARIATION/ FILL-IN 1	VARIATION/ FILL-IN 2	SYNCRO/ FILL-IN NEXT
SWC1	SEQ	TEMPO DOWN	START/ STOP	BANK	1	2	3	4
SWC2	STRAGE	SMF PLAY	TEMPO UP	CH9	CH10	CH11	CH12	CH13
SWC3	CH1	CH2	CH3	CH4	CH5	CH14	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 M737-MD1

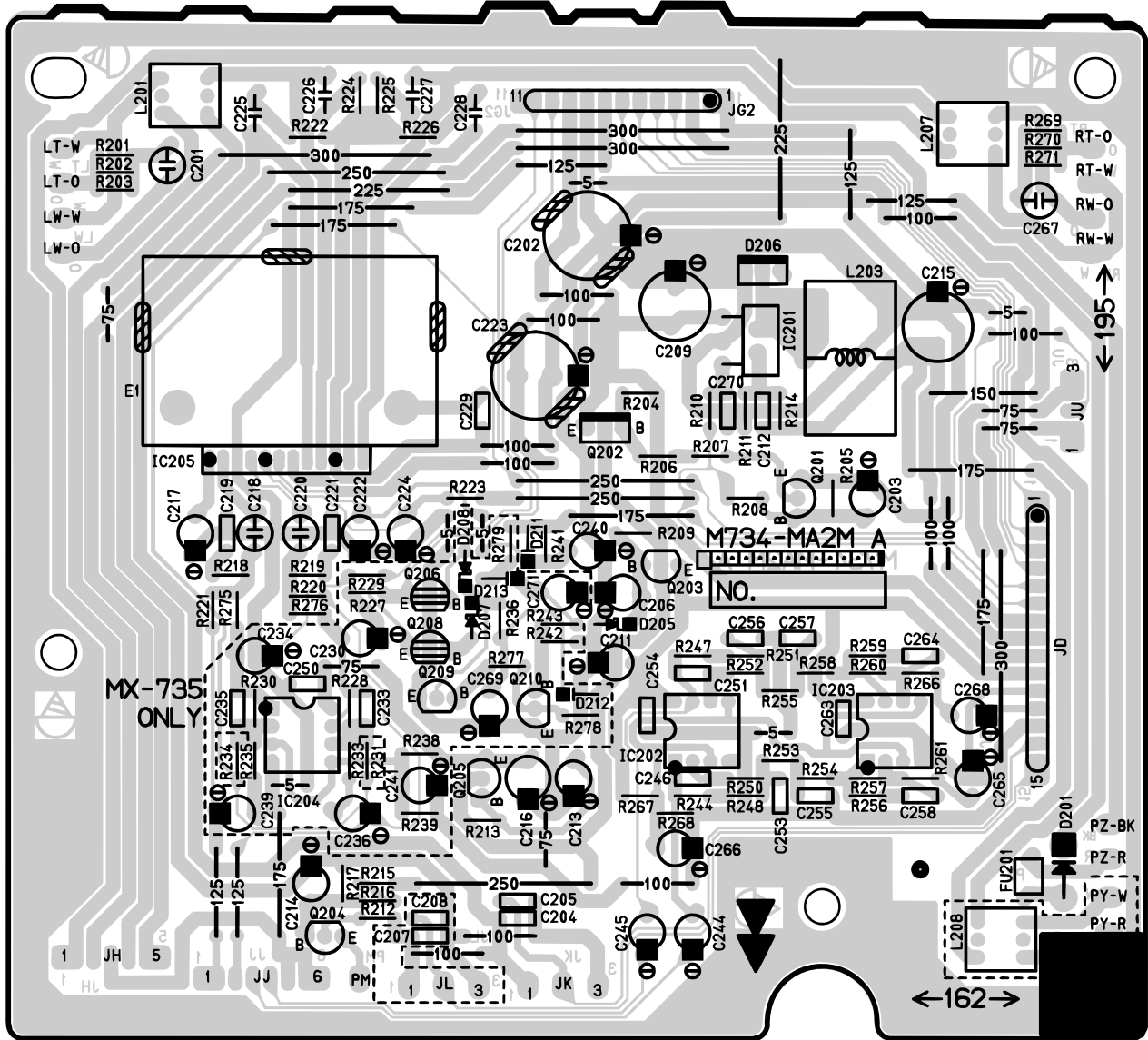


Top View



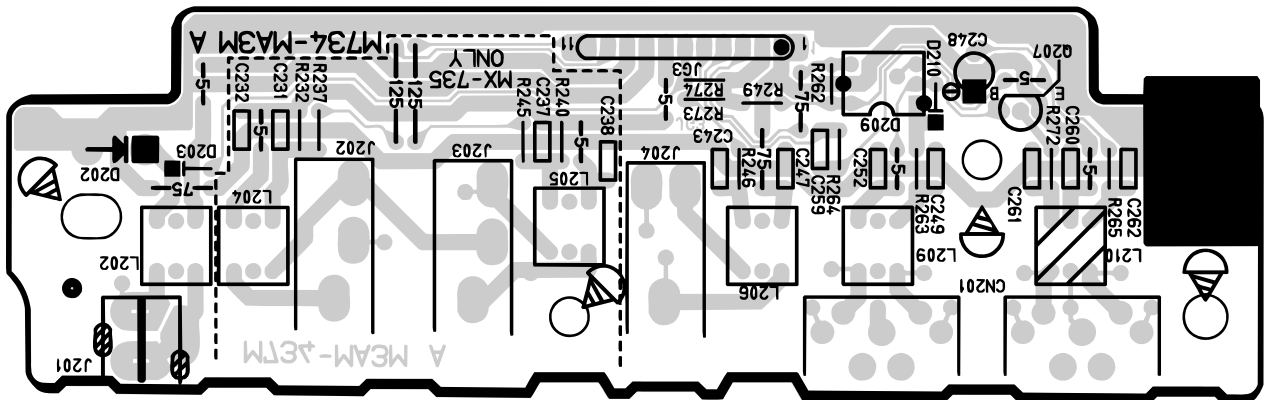
Bottom View

SUB PCB M734-MA2M



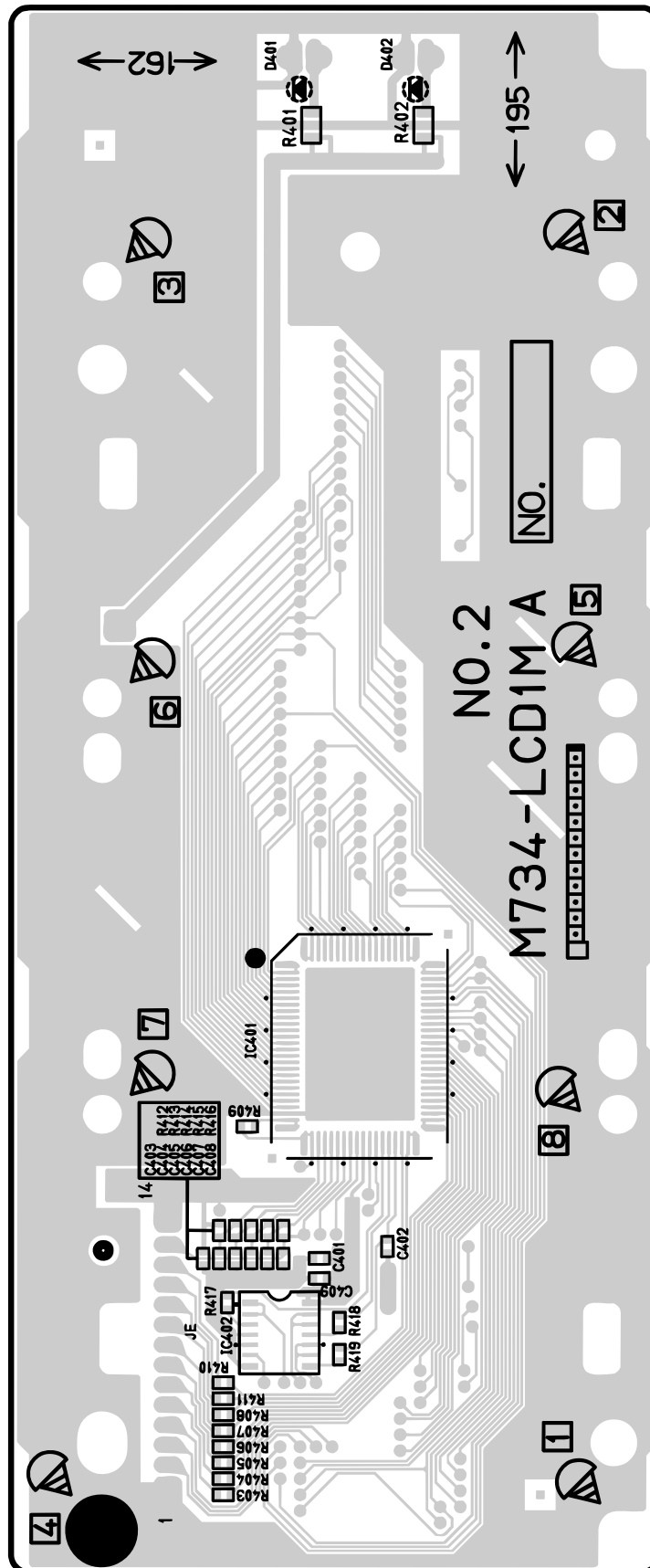
Top View

SUB PCB M734-MA3M



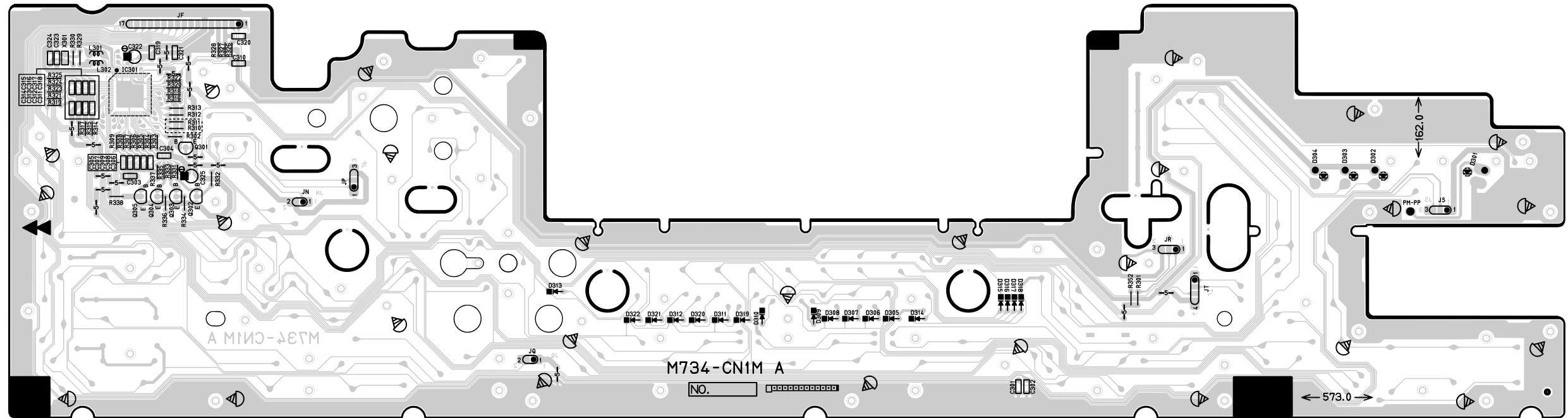
Top View

DISPLAY PCB M734-LCD1M

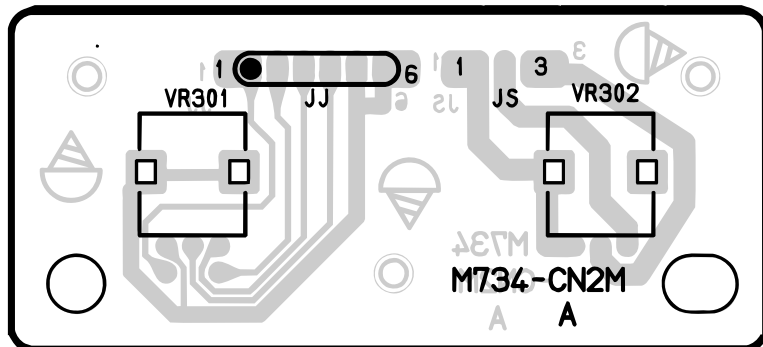


Top View

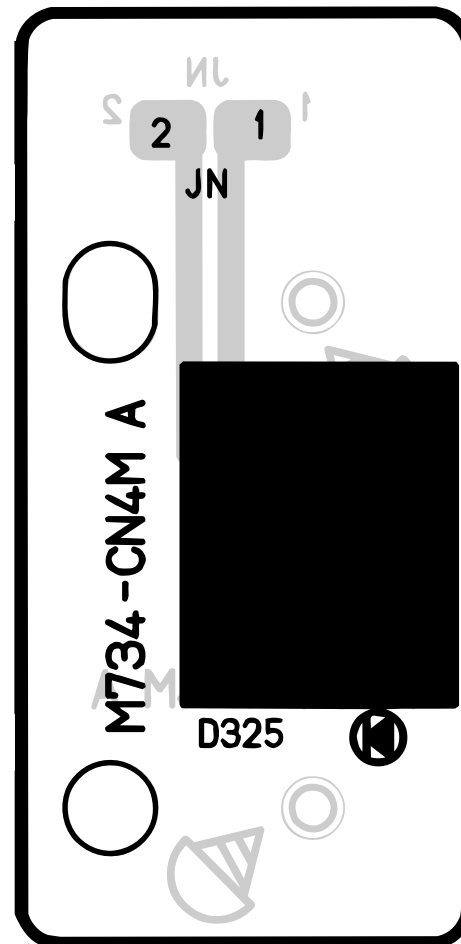
CONSOLE PCB M734-CN1M



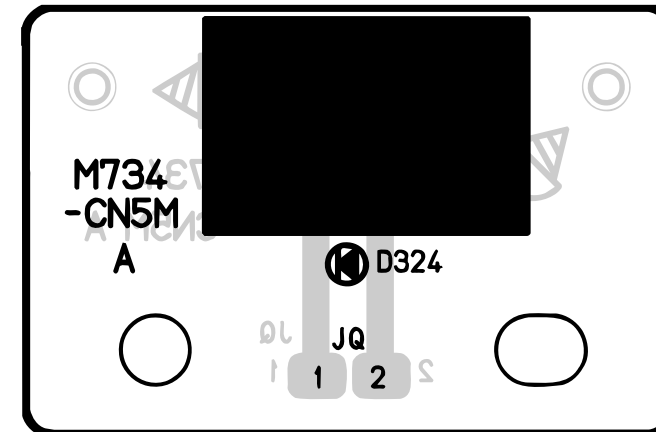
CONSOLE PCB M734-CN2M



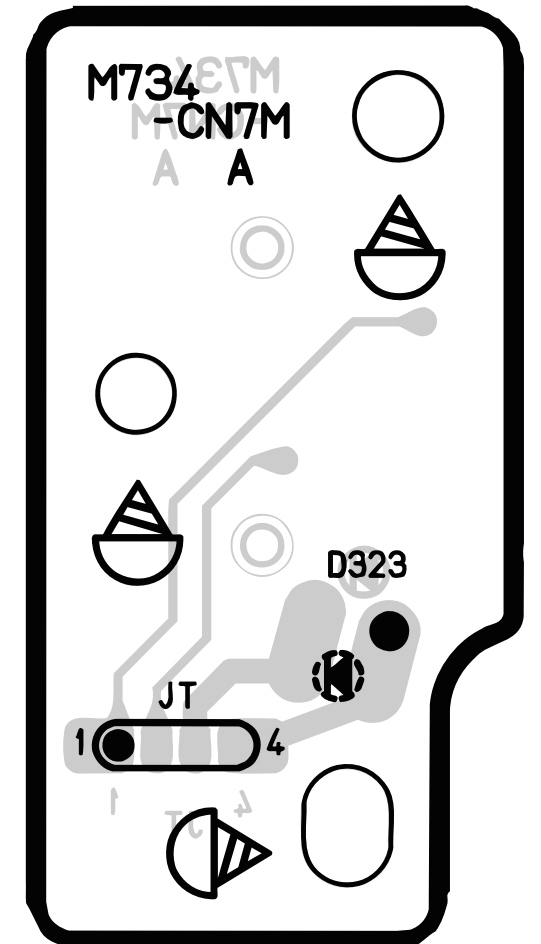
CONSOLE PCB M734-CN4M



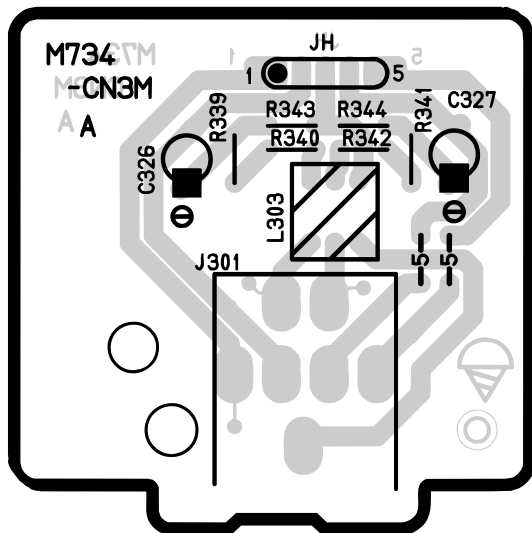
CONSOLE PCB M734-CN5M



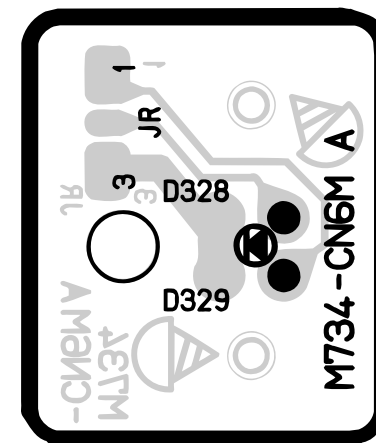
CONSOLE PCB M734-CN7M



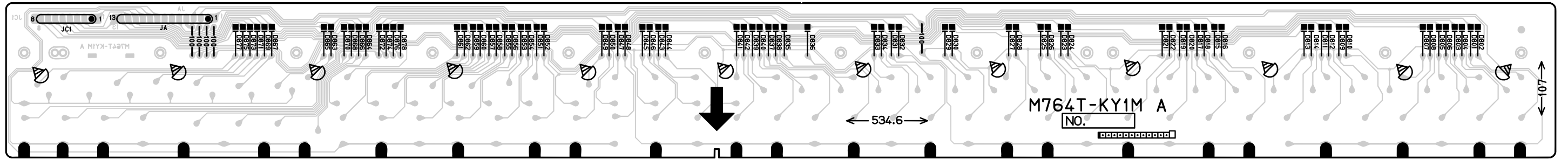
CONSOLE PCB M734-CN3M



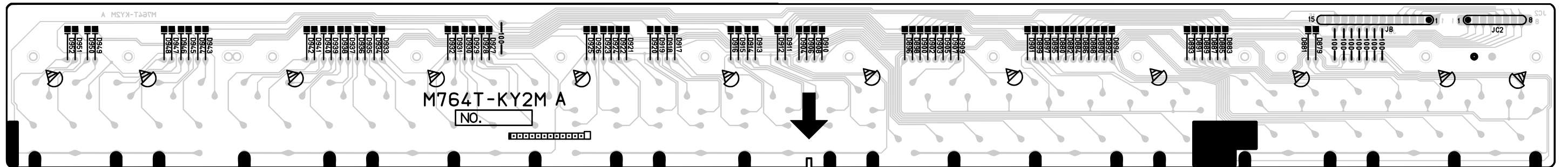
CONSOLE PCB M734-CN6M



KEYBORD PCB JCM764T-KY1M

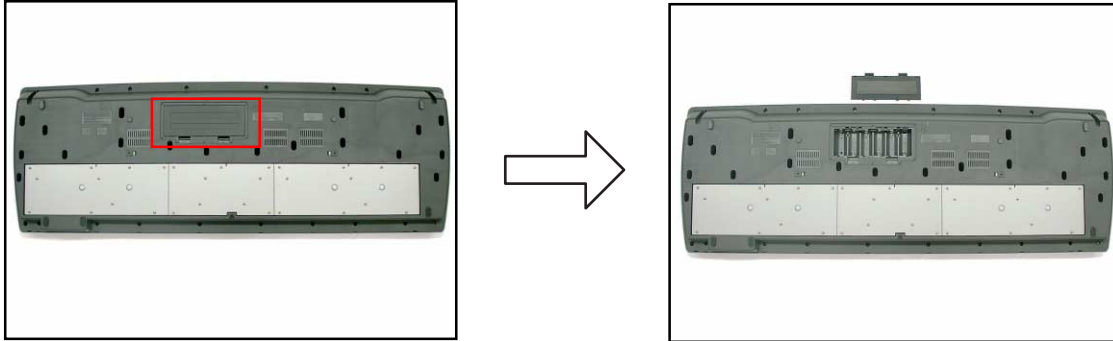


KEYBORD PCB JCM764T-KY2M

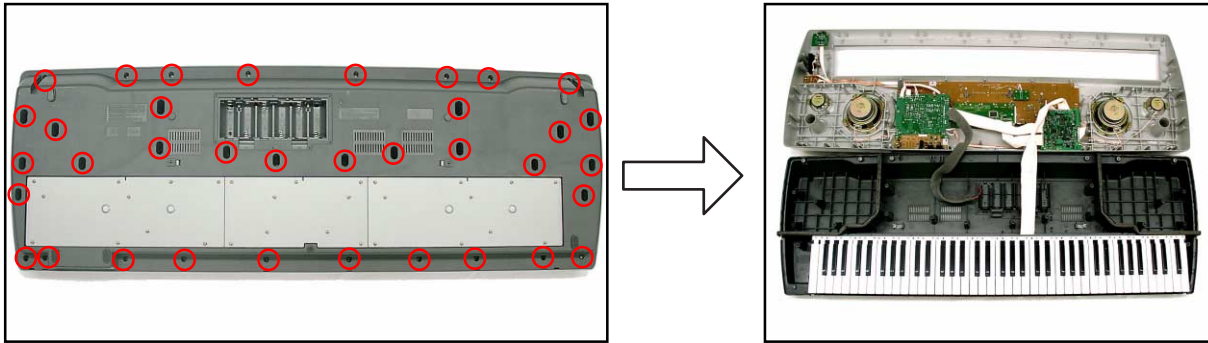


DISASSEMBLY

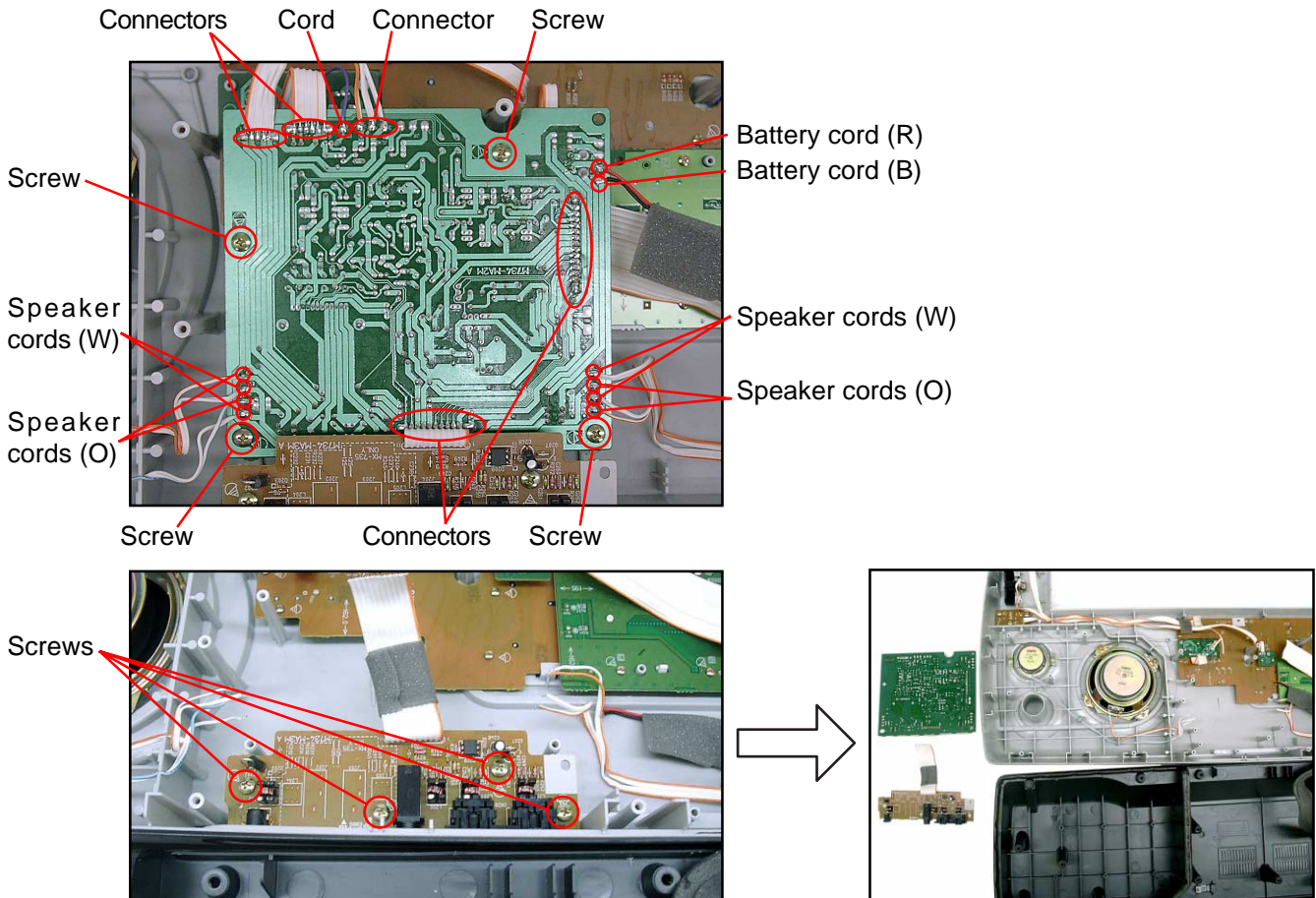
1. Remove the battery cover and then the battery.



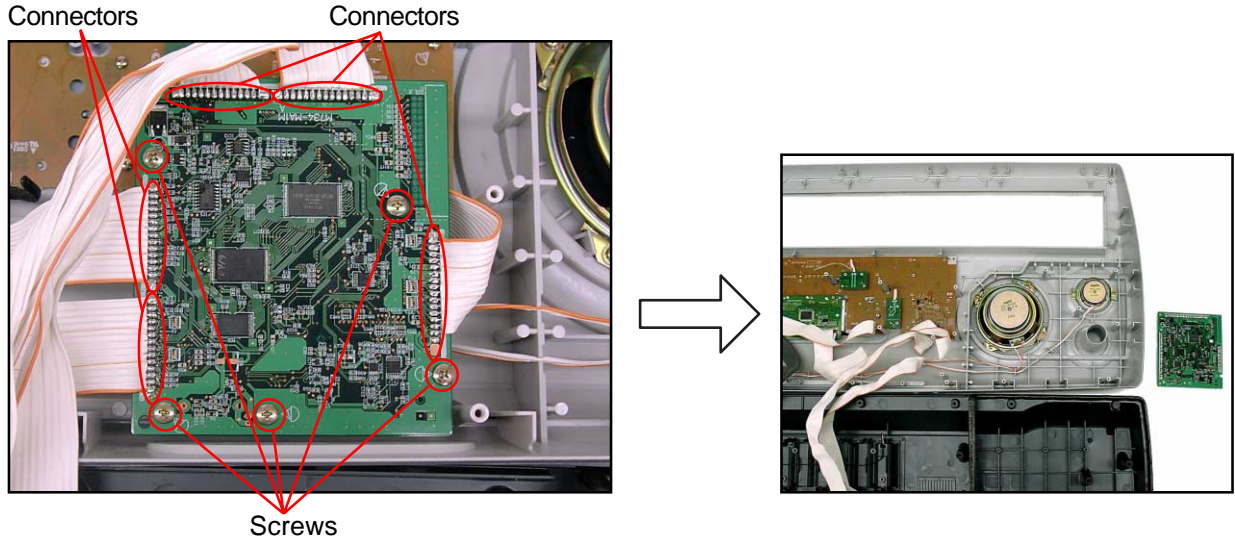
2. Remove 36 screws and then the upper case.



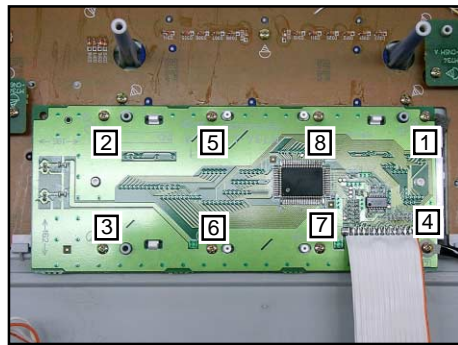
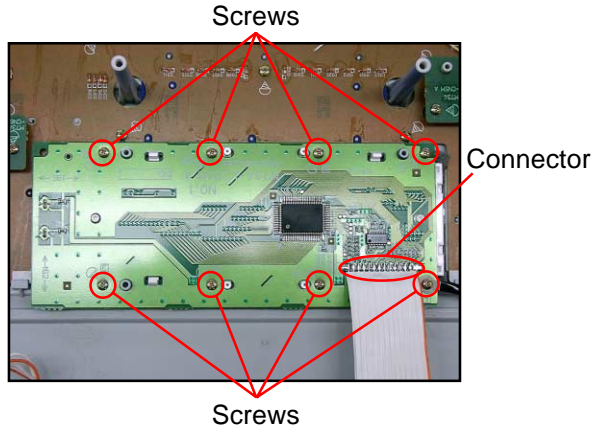
3. Remove 4 screws, 8 speaker cords, 2 battery cords, 1 cord (PM), 5 connectors (JD, JG2, JH, JK, JJ) and then the PCB ASS'Y (MA2M).



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

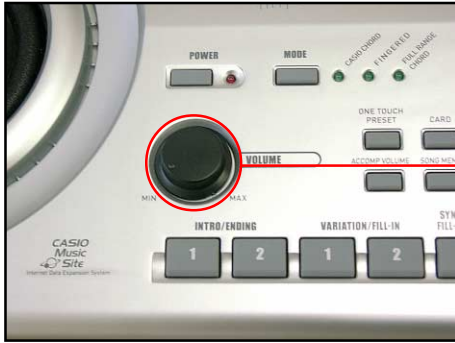


5. Remove 8 screws, 1 connector and then the LCD ASS'Y (LCD1M).



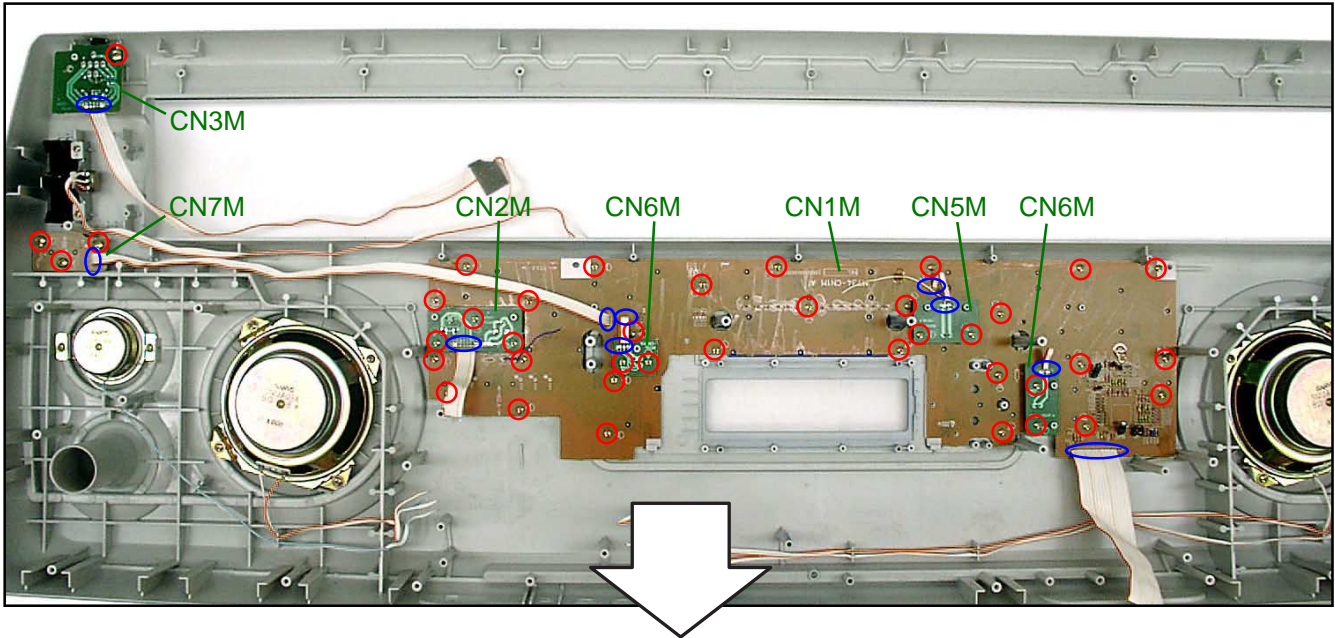
Note: Tighten the screws in the order from 1 to 8 when reassembling.

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

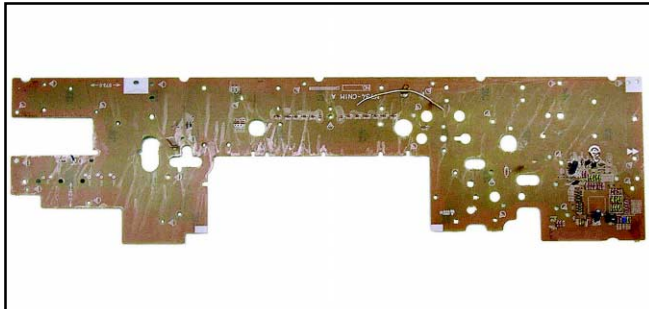


Volume knob

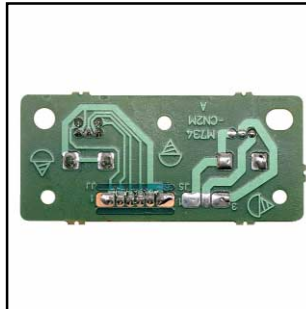
Screws Connector



CN1M



CN2M



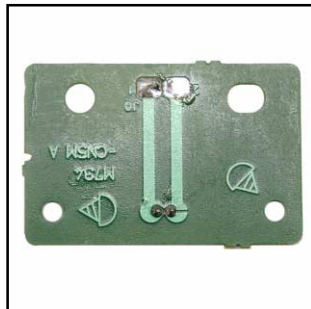
CN3M



CN4M



CN5M



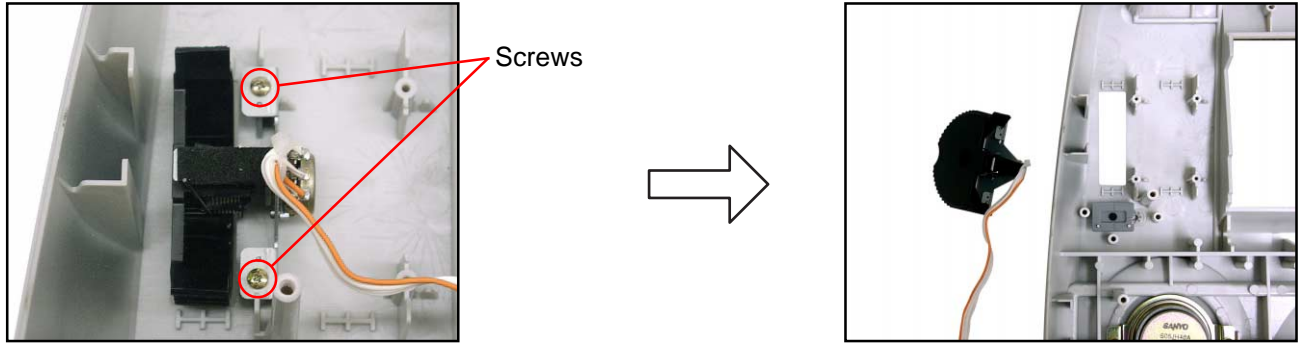
CN6M



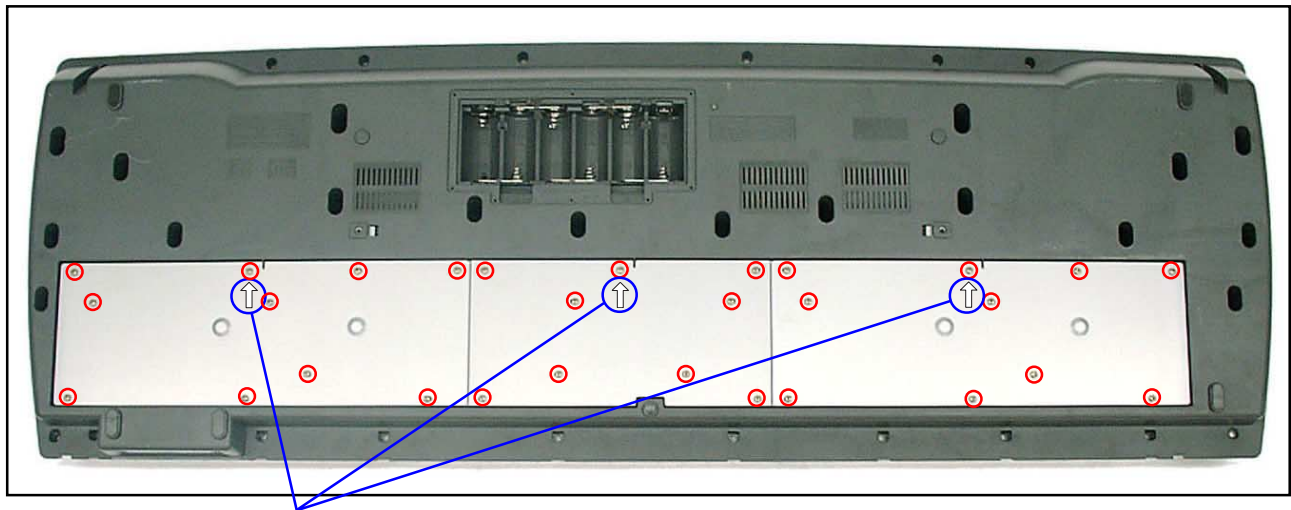
CN7M



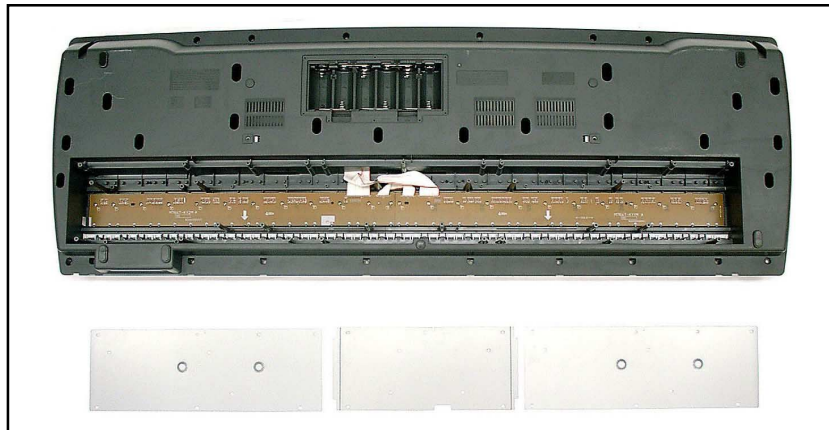
7. Remove 2 screws and then the Bender assy.



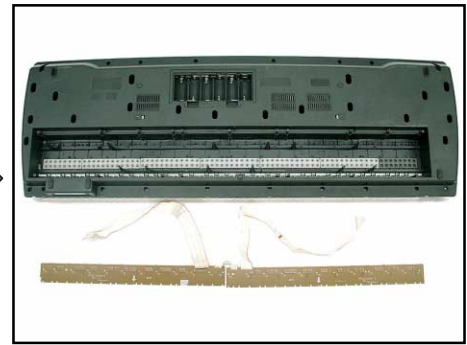
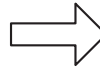
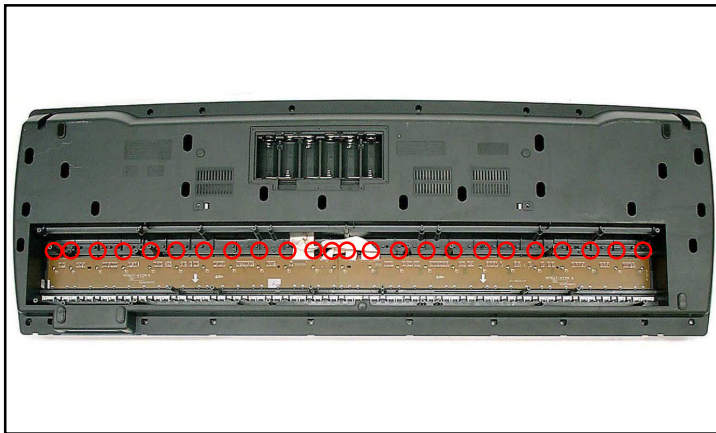
8. Remove 29 screws and then the lower case.



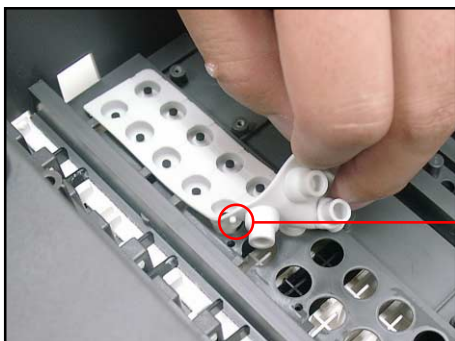
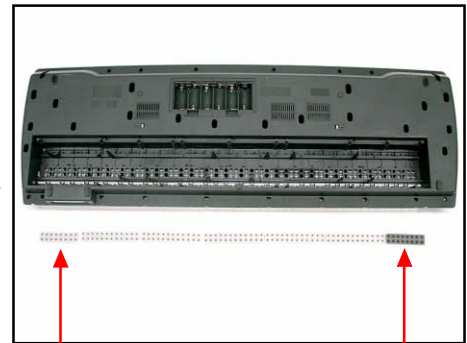
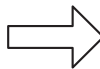
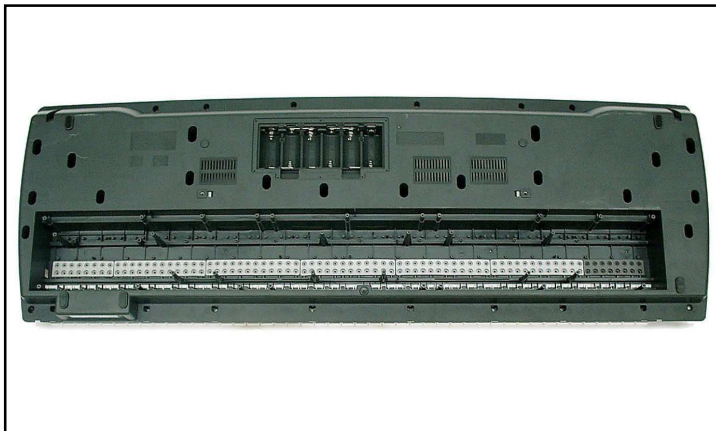
Note: Tighten the screw with the arrow mark in the figure first when reassembling.



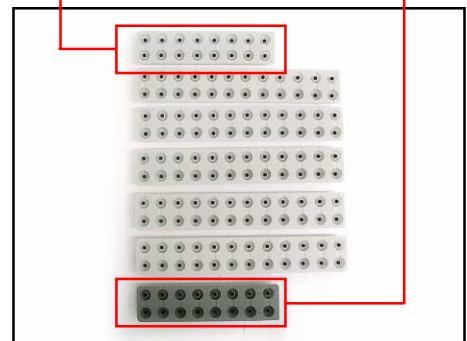
9. Remove 24 screws and then the PCB ASSY (KY1M, KY2M).



10. Remove the rubber keys.

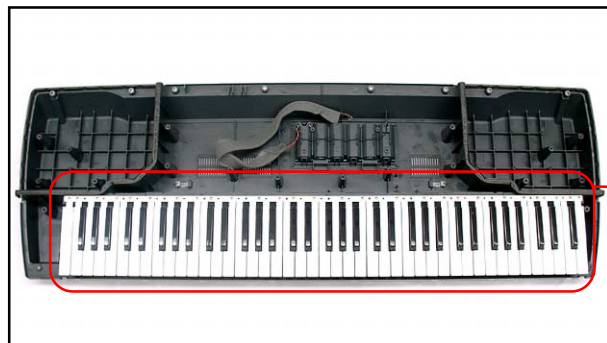


Projection



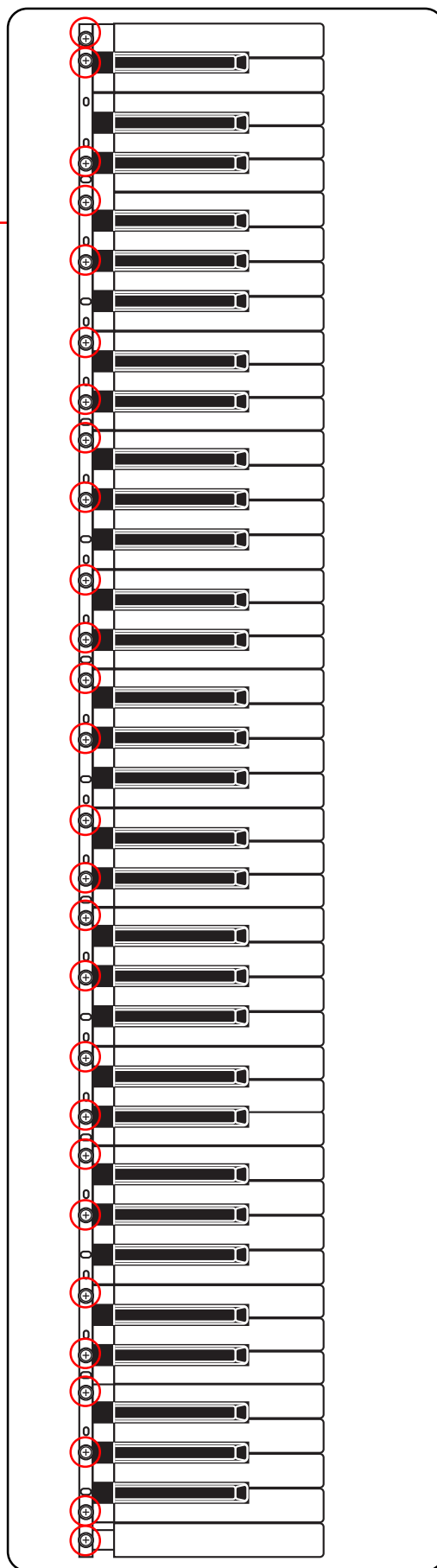
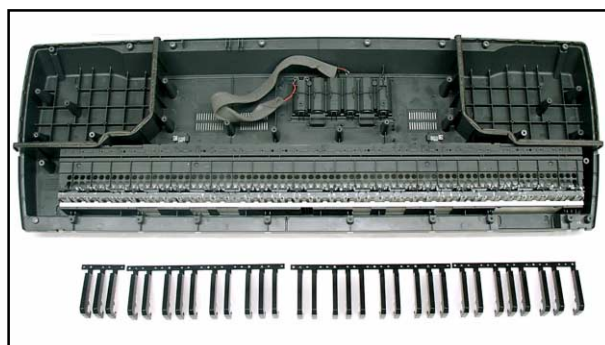
Note: Pay attention to the positions of the rubber keys as one of them has a different length.
Match the projections of the rubber keys with the holes of the lower case when reassembling.

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

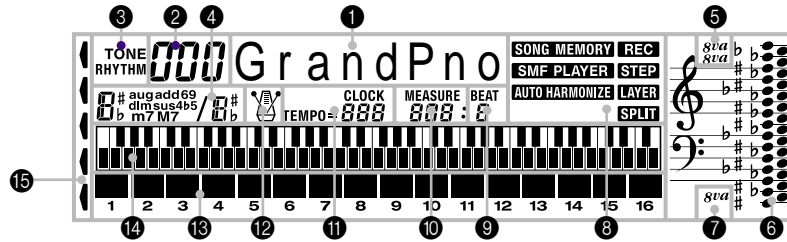
1. Connect an AC adaptor.
2. Connect a Sustain pedal.
3. "Main" volume: MAX.

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 737" appears on the LCD.

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



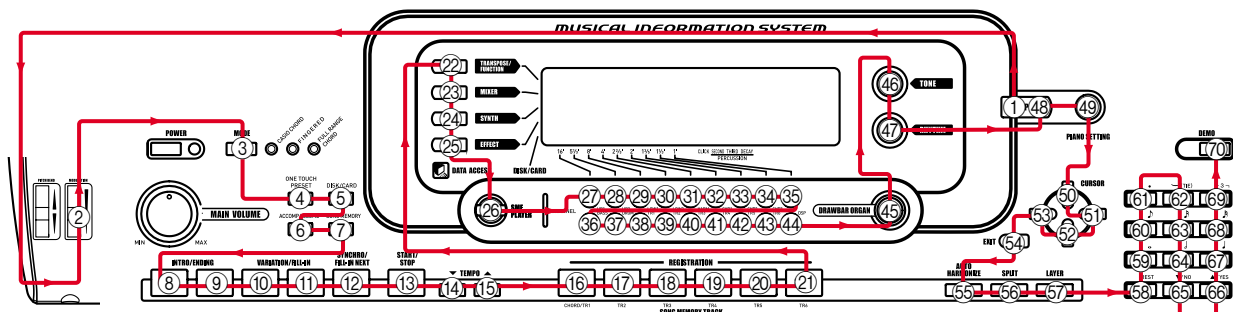
Diagnostic program

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 MODULATION	MODE	18 REGISTRATION 3	REGIST 4	35 CH 9
② MODE	OTP	19 REGISTRATION 4	STORE	36 CH 10
③ ONE TOUCH PRESET	CARD	20 STORE	TRAN/FUNC	37 CH 11
④ DISK/CARD	ACMP VOL	21 TRANSPOSE/FUNCTION	MIXER	38 CH 12
⑤ ACCOMP VOLUME	SONG	22 MIXER	SYNTH	39 CH 13
⑥ SONG MEMORY	INT/END1	23 SYNTH	EFFECT	40 CH 14
⑦ INTRO/ENDING 1	INT/END2	24 EFFECT	SMF	41 CH 15
⑧ INTRO/ENDING 2	VAR/FIL 1	25 SMF PLAYER	CH 1	42 CH 16
⑨ VARIATION/FILL-IN 1	VAR/FIL 2	26 CH 1	CH 2	43 DSP CH
⑩ VARIATION/FILL-IN 2	SYNCHRO	27 CH 2	CH 3	44 DRAWBAR ORGAN
⑪ SYNCHRO/FILL-IN NEXT	STRT/STP	28 CH 3	CH 4	45 TONE
⑫ START/STOP	TEMPO/DW	29 CH 4	CH 5	46 RHYTHM
⑬ TEMPO ▼	TEMPO/UP	30 CH 5	CH 6	47 DSP
⑭ TEMPO ▲	BANK	31 CH 6	CH 7	48 PIANO SETTING
⑮ BANK	REGIST 1	32 CH 7	CH 8	49 Cursor key Up
⑯ REGISTRATION 1	REGIST 2	33 CH 8	1Ft UP	50 Cursor key Right
⑰ REGISTRATION 2	REGIST 3	34 UP	CH 9	51 Cursor key Down
				52 Cursor key Left
				53 EXIT
				54 AUTO HARMONIZE
				55 SPLIT
				56 LAYER
				57 0 buttons
				58 1 buttons
				59 4 buttons
				60 7 buttons
				61 8 buttons
				62 5 buttons
				63 2 buttons
				64 - buttons
				65 + buttons
				66 3 buttons
				67 6 buttons
				68 9 buttons
				69 DEMO
				EXIT
				HARMO
				SPLIT
				LAYER
				0
				1
				4
				7
				8
				5
				2
				-
				+
				3
				6
				9
				DEMO
				SW OK



2. AC adaptor detection check.

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

Message on LCD

① ACJ ON

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

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

① SUS CHK

① SUS ON

① SUS OFF

4. Low Voltage detection check.

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

① VOLT HI

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

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

① MIDI OK

6. 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

7. ROM check

- ① Press "INTRO/ENDING1" button.

① ROM CHK

↓

① ROM OK

8. Flash memory check

- ① Press "INTRO/ENDING2" button.

① FMC CHK

↓

① FMC OK

9. Flash memory SUM check

- ① Press "SONG MEMORY" button.

① FMS CHK

↓

① FMS 3C6A

10. DSP RAM check

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

① DRAM OK

11. CPU RAM check

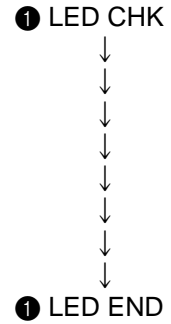
- ① Press "SYNCHRO/FILL-IN NEXT" button.

① CRAM OK

12. 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

Message on LCD

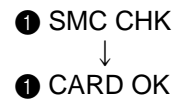


13. LCD check

- ① Press "TEMPO ▲" button.
- ② Turn on all segments of the LCD.
- ③ Press "BANK" button.
- ④ The area ❶ turns as check pattern.
- ⑤ Press "REGISTRATION 1" button.
- ⑥ The area ❶ turns as check pattern.
- ⑦ Press "REGISTRATION 2" button.
- ⑧ Half of characters in area ❶ to ❶5 turn on.
- ⑨ Press "REGISTRATION 3" button.
- ⑩ Rest of above characters turn on.
- ⑪ Press "REGISTRATION 4" button.
- ⑫ Each characters turn in order.
There no lack of dots and characters

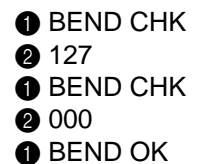
14. Card check (If no smart media card, this check can be skipped)

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



15. Bender check

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



16. 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.

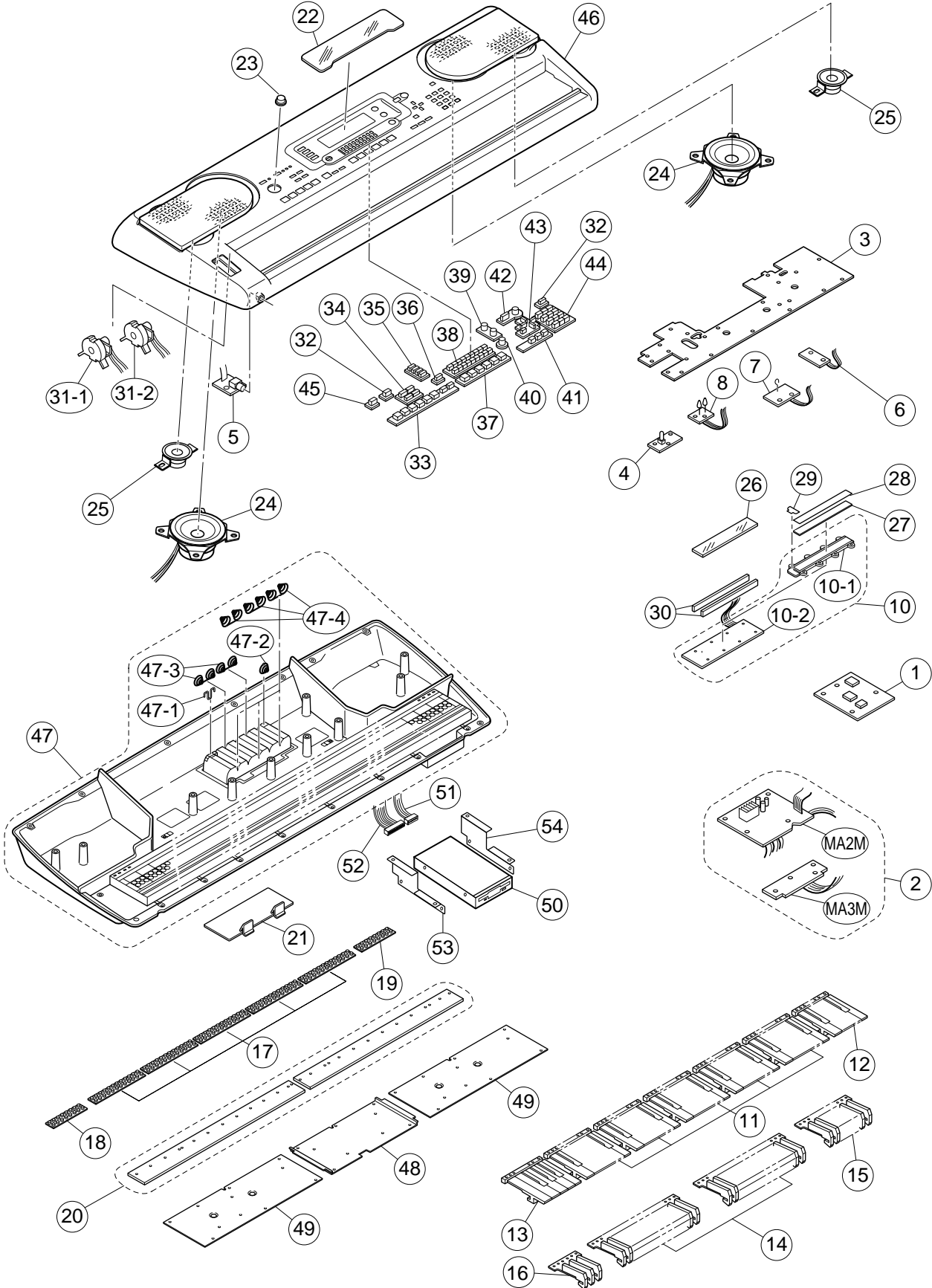
17. APO check

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



DIAGNOSTIC PROGRAM IS FINISHED.

EXPLODED VIEW



PARTS LIST

WK-3700

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	10200670	PCB ASSY/MAIN	TK-RJM505698*001	1	DV	A	
N	IC4	10164063	MEMORY	CY62128DV30LL70ZAI	1	AU	B	
	IC5	10195928	IC	UPD63200GS-E1-A	1	AX	B	
N	IC6	10133600	MEMORY	LP62S2048X-70LLT/Q	1	BA	B	
	IC7	10197796	IC	TA75S393F(TE85L.F)	1	AF	B	
	IC8	10175415	IC	R1151N001C-TR-FB	1	AE	B	
	IC9	10197802	IC	TC74VHCT08AFT(EL.K	1	AE	B	
N	IC10	10197809	IC	TC7WH123FU(TE12L.F	1	AE	B	
N	IC11,14	10197805	IC	TC7SH00FU(TE85L.JF	2	AD	B	
N	IC12	10197801	IC	TC74VHC174FT(EL.K	1	AI	B	
N	IC13	10195927	IC	ADC08832IMX/NOPB	1	AR	B	
	IC15	10054502	LSI	UPD914AGM-3ED	1	CK	B	
N	IC16	10197797	IC	TC74LCX00FT(EL.K)	1	AD	B	
	IC17	10197799	IC	TC74LCX245FT(EL.K)	1	AJ	B	
	IC18	10197798	IC	TC74LCX138FT(EL.K)	1	AI	B	
	IC20	20125987	LSI	TC190C020AF-001	1	BC	B	
	IC29	10147318	IC	TC7WH125FU(TE12L.F	1	AC	B	
N	IC30	10197807	IC	TC7SH32FU(TE85L.JF	1	AD	B	
N	IC31	10197800	IC	TC74VHC125FT(EL.K)	1	AJ	B	
	IC33	10197808	IC	TC7SZ08FU(TE85L.F)	1	AE	B	
	IC34,35	10137753	IC	TC7S14FU(TE85L.F)	2	AA	C	
	IC36	10198114	MEMORY	MR27V12800J137TN3D	1	BN	C	
	Q1,3,8,10	10116461	TRANSISTOR	KTC4075GR-RTK	4	AA	C	
	Q2	10197813	TRANSISTOR	2SD2150T100R	1	AE	C	
	Q5	10015566	TRANSISTOR	2SB1181TLR	1	AC	C	
	Q7,9	10154941	TRANSISTOR	KTA2014GR-RTK	2	AA	C	
N	D1	10199220	DIODE	HZU4.3B2TRF-E	1	AB	C	
	D2	23902058	DIODE	1SR154-400TE25	1	AA	C	
	D5-10	23901820	DIODE	1SS355TE-17	6	AA	C	
N	L2,3	10122963	COIL	BLM21AG102SN1D	2	AC	C	
	L5-12,14-26,29	10095204	COIL	BLM18AG102SN1D	21	AA	C	
	CN1	10171453	CONNECTOR	479200-22KJ000	1	AO	C	
	X2	10199221	RESONATOR	CSTCE8M00G25001-R0		AD	C	
	X1	10059360	OSCILLATOR/CRYSTAL	SMD-49-16.384M	1	AI	C	
	F7-11	10122975	FILTER	EZASSB516BJ	5	AA	X	
	F1,2,4,6,12,13,14	10122976	FILTER	EZASTB63ABJ	7	AA	X	
	L13	10080354	COIL	BLM18AG601SN1D	1	AA	C	
Sub PCB								
	2	10128737	PCB ASSY/MA2-3M	TK-RJM502983*003	1	CR	B	
	IC201	69320061	IC	PQ1CG21H2FZ	1	AO	B	
	IC202,203, 204	21210072	IC	NJM2068DD	3	AD	B	
	IC205	10062671	IC	LA4636	1	AV	B	
	Q201,203, 204,205,207, 209,210	22501627	TRANSISTOR	2SC1740STPS	7	AA	C	
	Q202	22501591	TRANSISTOR	2SB1237TV2R	1	AB	C	
	D201,202	10094579	DIODE	1N5822	2	AC	C	
	D203,210, 212,213	23153132	DIODE	1SS133T-77	4	AA	C	
	D205	10115969	DIODE	DZ5.6BSBTP	1	AA	C	
	D206	23901463	DIODE	SB20-03B	1	AD	C	
	D209	21141421	PHOTO COUPLER	PC900V	1	AK	C	
	CN201	35014816	JACK/DIN	YKF51-5051	1	AH	C	
	J201	35015012	JACK/DC	HEC2305-01-920	1	AC	C	
	J204	36120789	JACK	YKB21-5010	1	AC	C	
	L201,202,204,205,20 6,207, 208,209	10056228	COIL	R2318-RB53-856397	8	AB	C	
	L203	10071755	COIL	R187-860400	1	AF	C	
	L210	10057360	COIL	R2318-RB53-856396	1	BB	C	

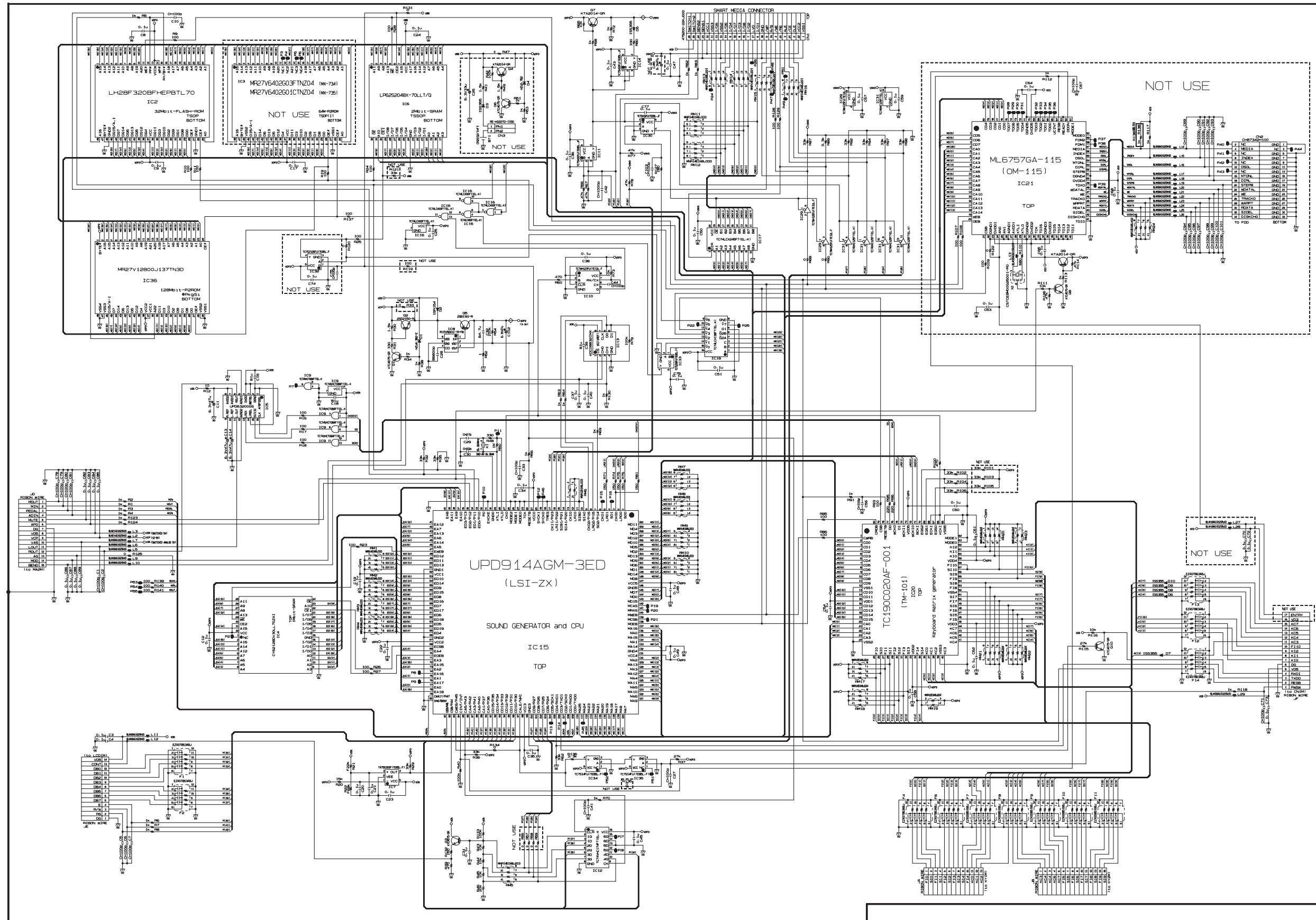
N	Item	Code No.	Part Name	Specification	QTY	Price Code	R	Remarks
Console PCB CN1M~CN6M								
N	3	10200672	PCB ASSY/CN1M	TK-RJM502984*002	1	CH	B	
	4	10123296	PCB ASSY/CN2M	TK-RJM502985*001	1	BN	B	
	5	10123297	PCB ASSY/CN3M	TK-RJM502986*001	1	BM	B	
	6	10123298	PCB ASSY/CN4M	TK-RJM502987*001	1	BN	B	
	7	10123299	PCB ASSY/CN5M	TK-RJM502988*001	1	BN	B	
	8	10123300	PCB ASSY/CN6M	TK-RJM502989*001	1	BJ	B	
	IC301	69324293	LSI	UPD65881GK-062-9ET	1	AT	B	CN1M
	Q301,304, 305	10025037	TRANSISTOR	2SA933STPS	3	AA	C	CN1M
	D305-322	23153132	DIODE	1SS133T-77	18	AA	C	CN1M
	D302-304	10122219	LED	1154GD-B5/9-90	3	AD	C	CN1M
	D301	10123008	LED	1154GD-B5/8-90	1	AD	C	CN1M
	L301,302	69321437	FERRITE BEAD	BB36-851665	1	AA	C	CN1M
	X301	25292032	OSCILLATOR/CERAMIC	CSB1000J	1	AC	C	CN1M
	VR301	10123103	VARIABLE RESISTOR	RK09K12C0D1B	1	AH	C	CN2M
	J301	36120665	JACK/PHONE	JYB21-5006	1	AG	C	CN3M
	D325	10126405	LED	SDPB3DD0A100DEFGHI	2	AH	C	CN4M
	D324	10126405	LED	SDPB3DD0A100DEFGHI	2	AH	C	CN5M
	D328,329	10123006	LED	1154GD-B5/4.5-90	1	AD	C	CN6M
BL assy								
	10	10123292	BACK LIGHT ASSY	TK-RJM503021*001	1	BW	B	
	10-1	10123033	REFLECTOR	RJM502534-001V01	1	AD	C	
	10-2	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								
	11	69222720	KEY SET/LT WHITE	M312118*1	5	AP	C	
	12	69237900	KEY SET/LT76R WHITE	M340231*1	1	AO	C	
	13	69237910	KEY SET/LT76L WHITE	M340230*1	1	AO	C	
	14	69068482	KEY SET/LS BLACK	M140369B-3	2	AH	C	
	15	10025058	KEY SET/LSK-8P BLACK	M140369-8	1	AH	C	
	16	10025059	KEY SET/LSK-3P BLACK	M140369-7	1	AN	C	
	17	10025055	RUBBER/CONTACT/CB	M241297-1	5	AJ	C	
	18	10025054	RUBBER/CONTACT/EB	M241298-1	1	AH	C	
	19	10025060	RUBBER/CONTACT/CG	M241299-1	1	AH	C	
	20	10123289	PCB ASSY/KY1-2M	TK-RJM503000*001	1	BT	C	
	D801~D952	23153132	DIODE	1SS133T-77	152	AA	C	

N	Item	Code No.	Part Name	Specification	QTY	Price Code	R	Remarks
Case Unit								
N	21	10200667	COVER/BATTERY	TK-M341288*003	1	AX	C	
N	22	10199200	PLATE/DISPLAY	RJM502476-005V01	1	AS	C	
N	23	10197775	KNOB/ROTARY	M341109-005	1	AE	C	
	24	10130442	SPEAKER	S12JA10A	2	BG	C	
	25	10130441	SPEAKER	S05JH54A	2	AS	C	
N	26	10197776	LCD	TR4194N	1	BO	C	
	27	10122917	PLATE/BACK LIGHT	RJM502475-001V01	1	AP	X	
	28	10122970	FILM	RJM502473-001V01	1	AA	X	
	29	10081190	PIECE/TOP	RJM501982-001V01	2	AA	X	
	30	10122965	CONNECTOR	RJM502474-001V01	1	AI	C	
N	31-1	10200666	BENDER ASSY	TK-M340804*009	1	BU	C	
N	31-2	10200671	BENDER ASSY	TK-M340804*010	1	BS	C	
N	32	10197777	RUBBER/KEY/A	RJM502517-004V01	2	AB	C	
N	33	10197778	RUBBER/KEY/B	RJM502518-004V01	1	AI	C	
N	34	10197779	RUBBER/KEY/C	RJM502519-004V01	1	AX	C	
N	35	10197780	RUBBER/KEY/D	RJM502520-004V01	1	AD	C	
N	36	10197781	RUBBER/KEY/E	RJM502521-004V01	1	AB	C	
N	37	10197782	RUBBER/KEY/F	RJM502522-005V01	1	AI	C	
N	38	10197783	RUBBER/KEY/G	RJM502523-005V01	1	AJ	C	
N	39	10197784	RUBBER/KEY/H	RJM502524-003V01	1	AV	C	
	40	10123043	RUBBER/KEY/J	RJM502525-001V01	1	AA	C	
N	41	10197785	RUBBER/KEY/K	RJM502526-004V01	1	AD	C	
N	42	10197786	RUBBER/KEY/L	RJM502527-004V01	1	AF	C	
N	43	10197787	RUBBER/KEY/M	RJM502870-004V01	1	AF	C	
N	44	10197788	RUBBER/KEY/N	RJM502529-004V01	1	AM	C	
N	45	10197789	RUBBER/KEY/P	RJM502530-004V01	1	AB	C	
N	46	10200673	CASE ASSY/UPPER	TK-RJM505637*001	1	DF	X	
N	47	10200674	CASE ASSY/MIDDLE	TK-M141081*012	1	DE	X	
	47-1	10036658	SPRING/BATTERY/(+)	M441101A-1	1	AA	X	
	47-2	10036659	SPRING/BATTERY/(-)	M441102A-1	1	AC	X	
	47-3	10036660	SPRING/BATTERY	M441099A-1	2	AC	X	
	47-4	10036661	SPRING/BATTERY	M441100A-1	3	AC	X	
	48	10025065	PLATE/LOWER	M341268-001	1	AM	X	
	49	10025066	PLATE/LOWER	M241302-001	2	AP	X	
N	50	10187095	FDD	702D-6238D-050017	1	CX	C	
	51	10130438	CONNECTOR	AMP-2P-120-M735	1	AI	C	
	52	10130439	CABLE/FDD	CA-X125-070-A13	1	AW	C	
	53	10025048	BLACKET L/FDD	M341272-001	1	AD	C	
	54	10025046	BLACKET R/FDD	M341273-001	1	AD	C	
Accessories								
	-	10128659	AC ADAPTOR	AD-12UL-TC2(D)	1	CE	C	For US
	-	10119784	STAND/MUSIC	M141071-003V01	1	BD	X	
	-	10055632	BATTERY	GP13A0-9S2	3	BG	C	For DI
	-	10197761	LABEL/RATING	M341007-049V01	1	AA	X	
	-	10197752	CD ROM	IDES40CDROMWL1A	1	AJ	C	
	-	10197767	FLOPPY	WK3700FDWL1A	1	AH	C	

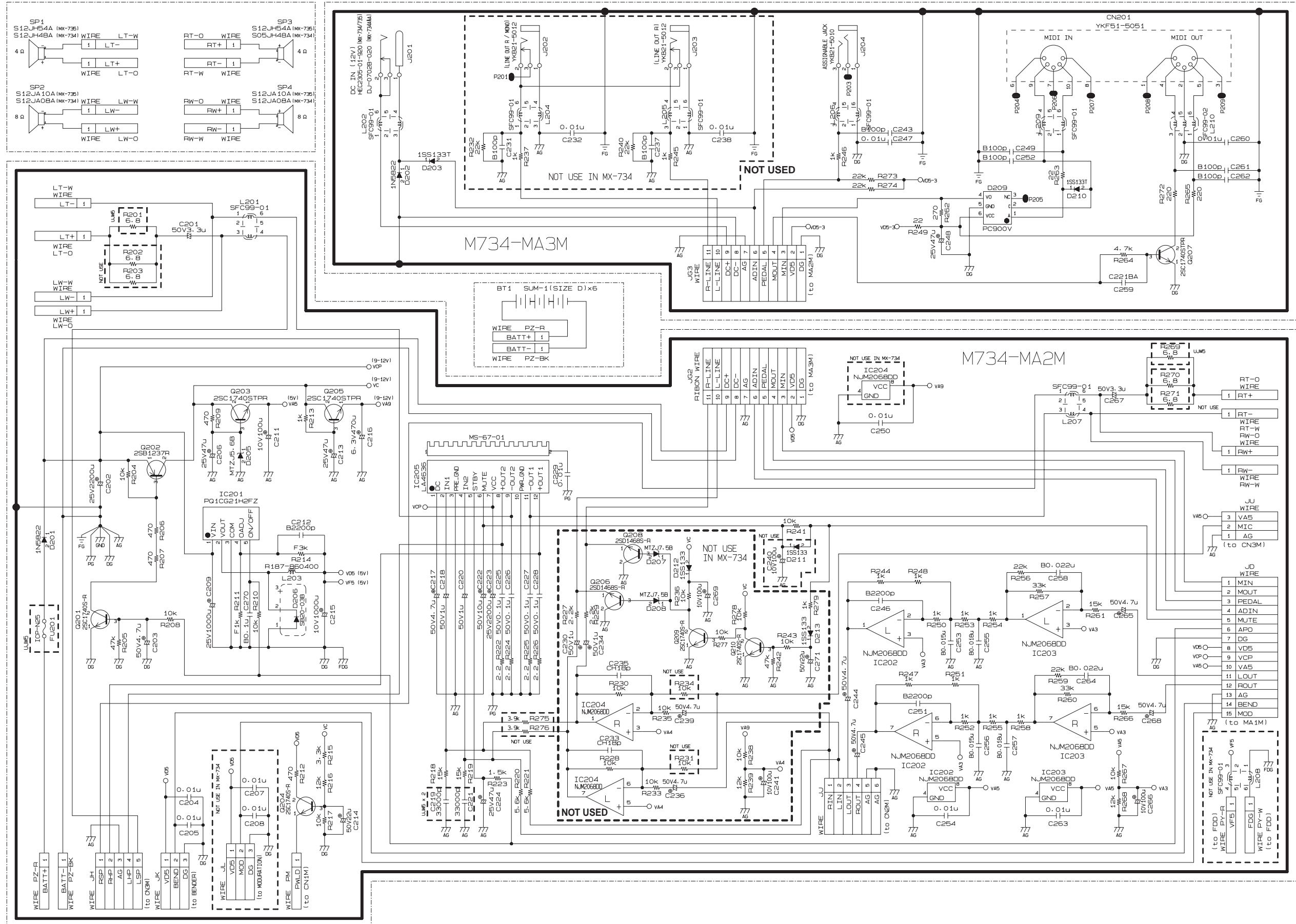
Notes : Q - Quantity per unit
R - Rank

SCHEMATIC DIAGRAMS

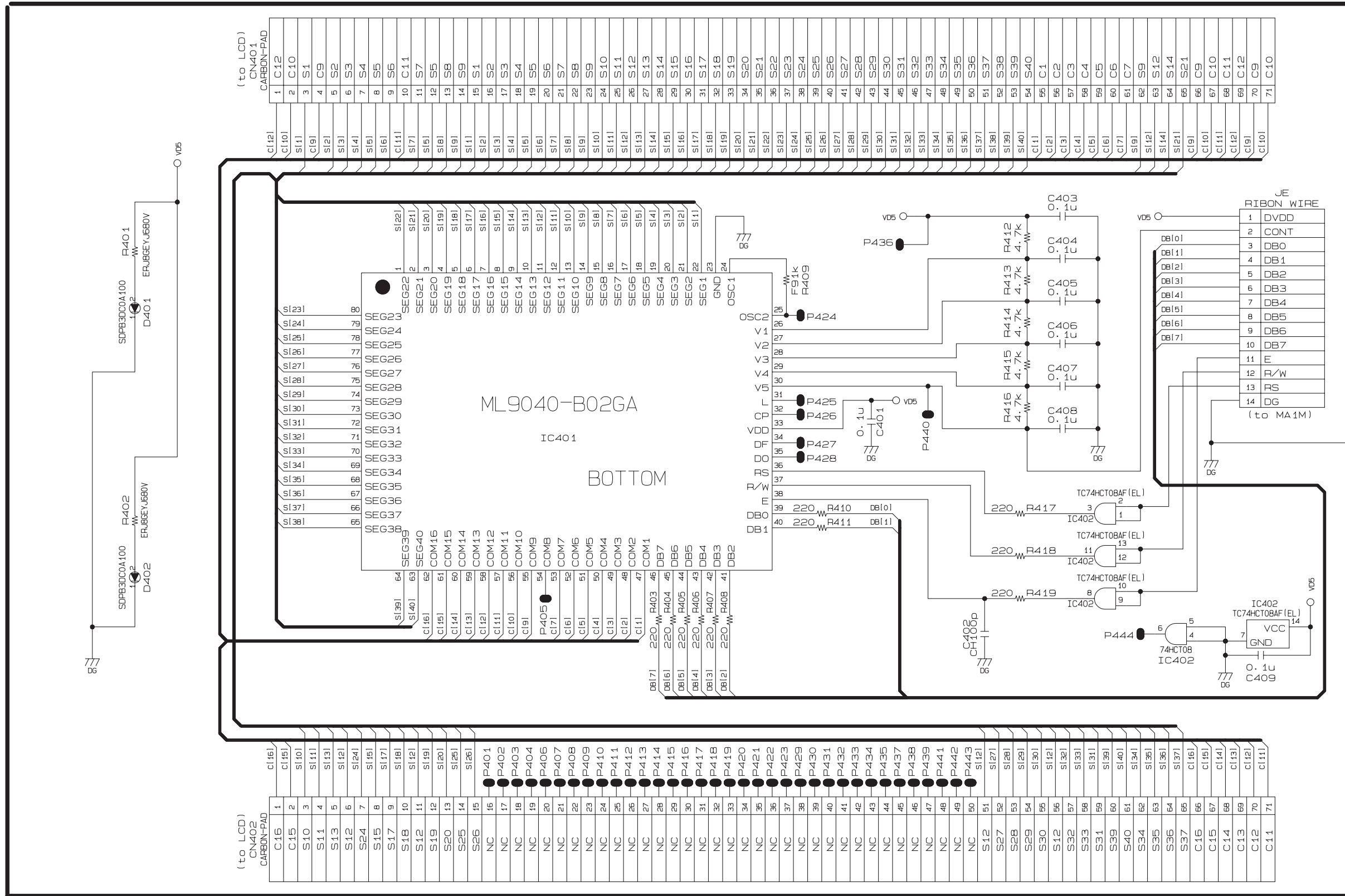
MAIN PCB M737-MD1



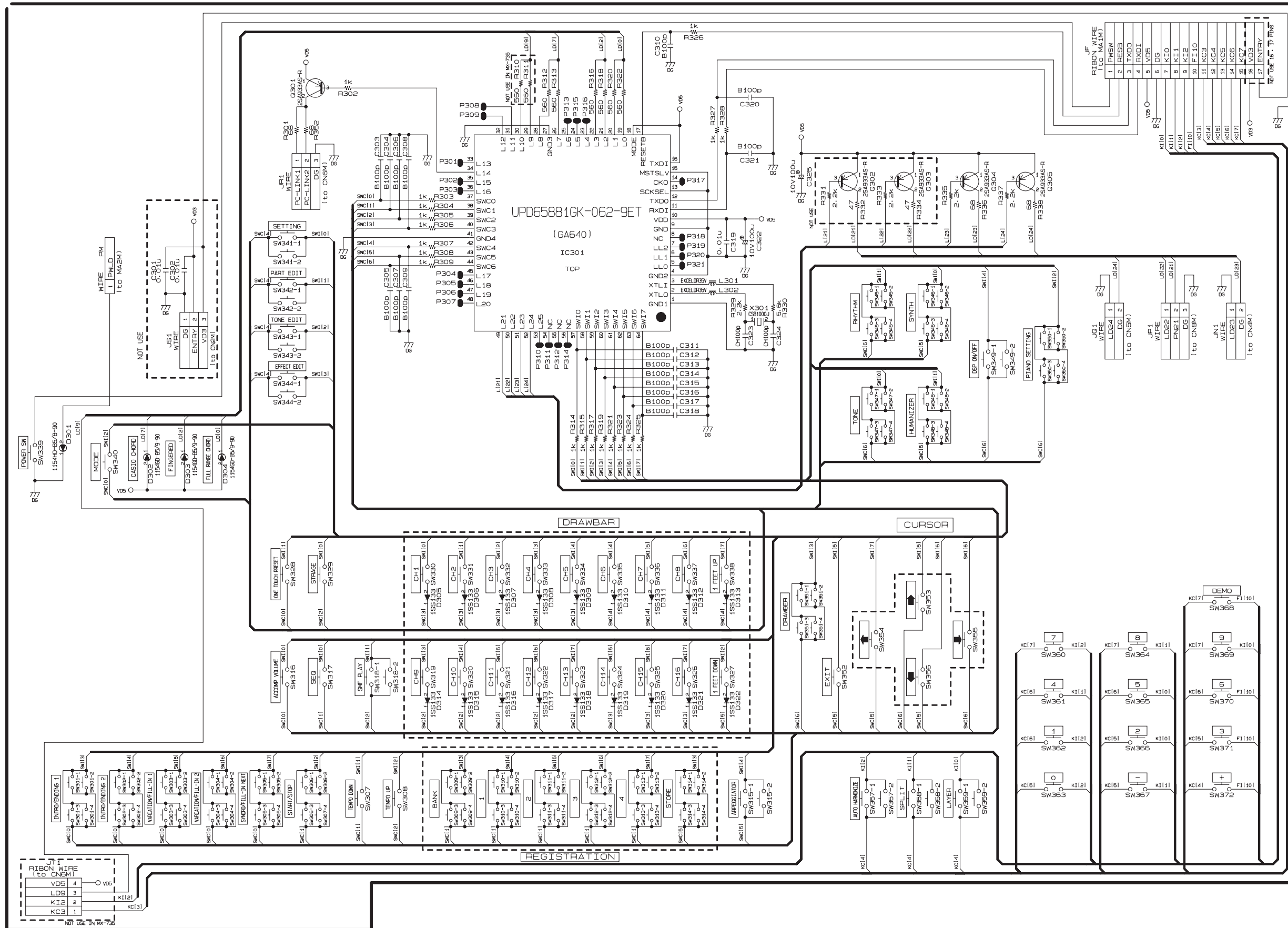
SUB PCBs M734-MA2M/MA3M



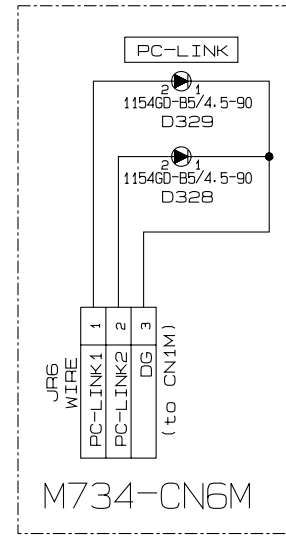
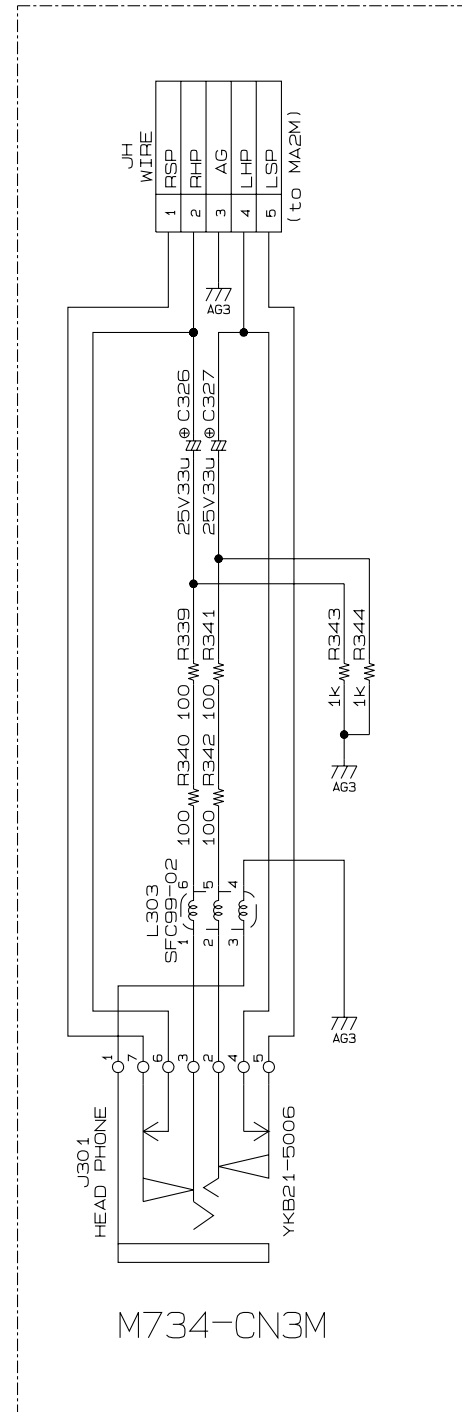
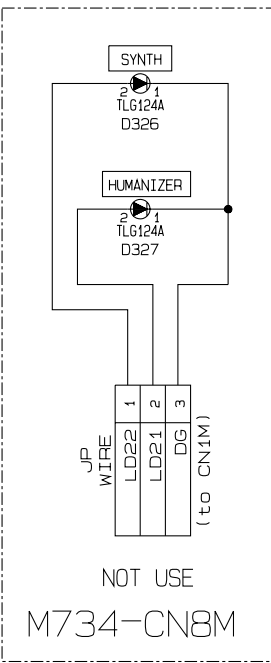
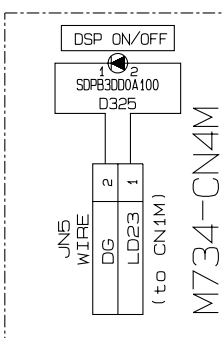
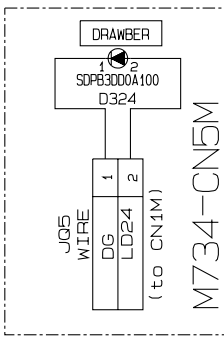
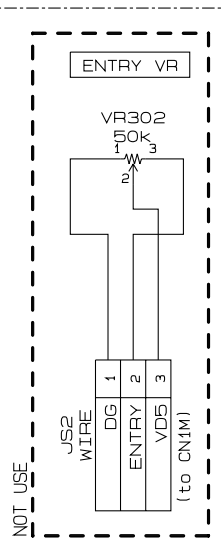
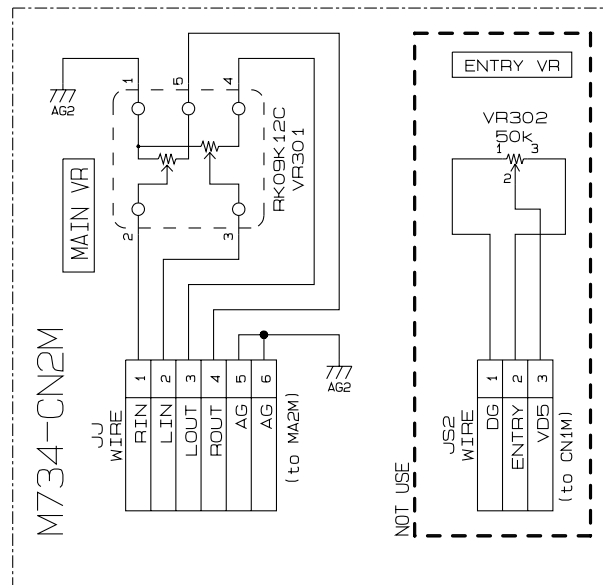
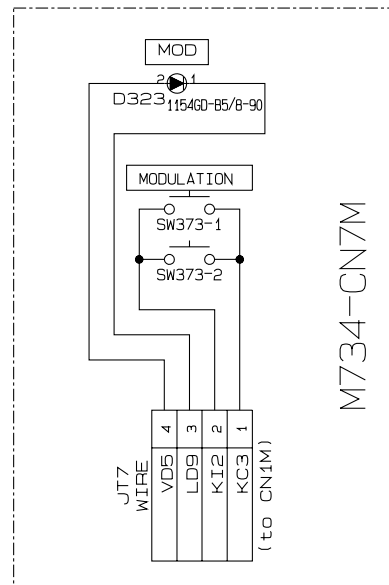
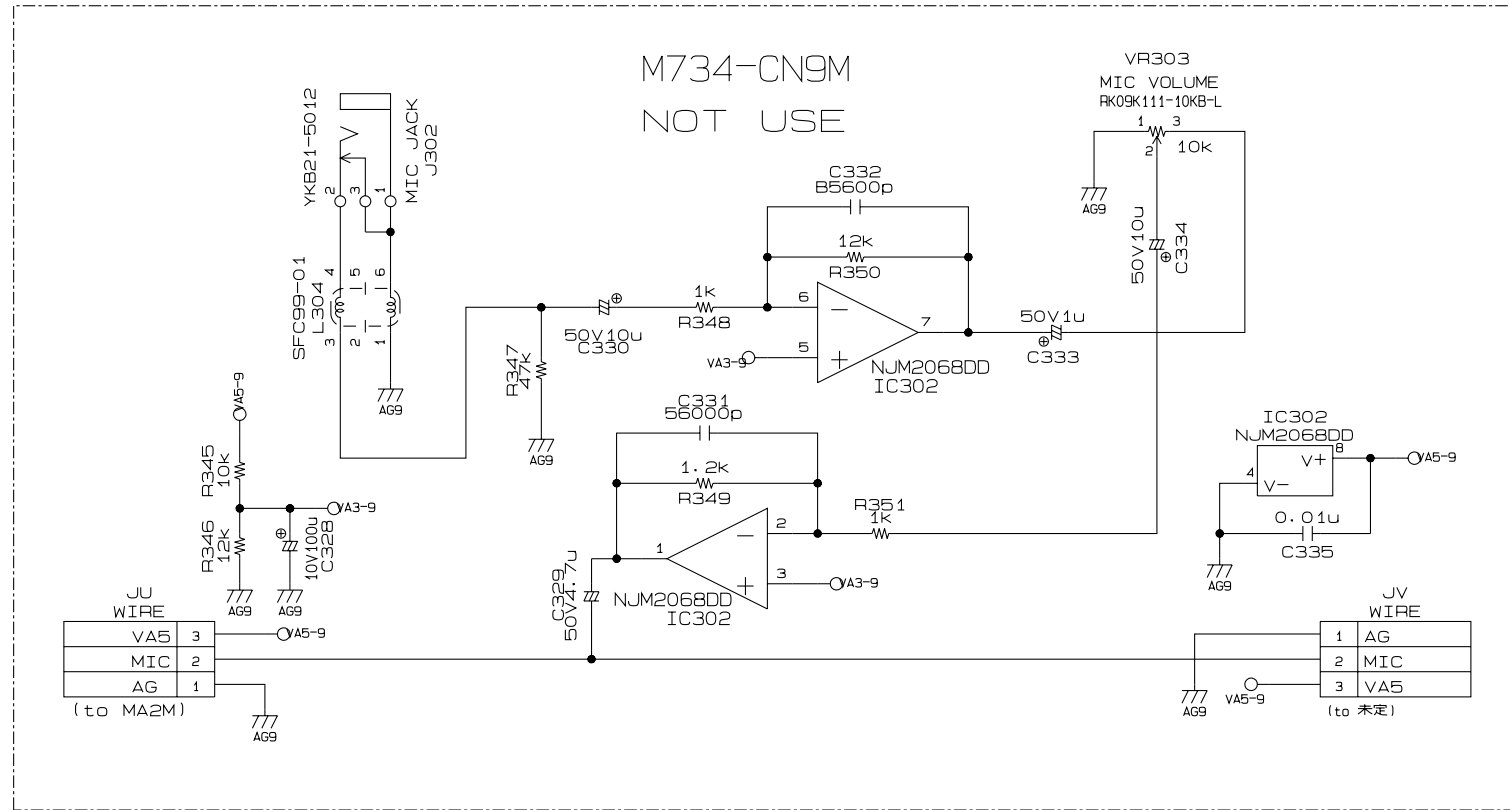
DISPLAY PCB M734-LCD1M



CONSOLE PCB M734-CN1M



CONSOLE PCBs M734-CN2M/CN3M/CN4M/CN5M/CN6M/CN7M/CN8M/CN9M

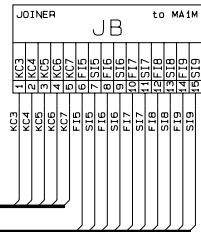
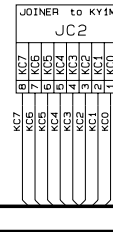
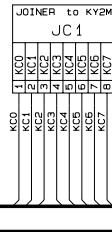
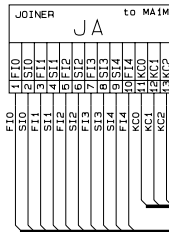


KEYBOARD PCBs JCM764T-KY1M/KY2M

NOTE

▶ ○ : 1SS133T-77

E1	F10	SM802	E1	0811	KC1
F1	F10	SM803	F1	0803	KC2
F1#	F10	SM804	F1#	0804	KC3
G1#	F10	SM805	F1#	0805	KC4
G1	F10	SM806	G1	0807	KC5
G1#	F10	SM807	G1#	0809	KC6
A1	F10	SM808	A1	0810	KC7
A1#	F10	SM809	A1#	0811	KC8
B1	F10	SM810	B1	0812	KC9
C2	F10	SM811	C2	0813	KC0
C2#	F10	SM812	C2#	0814	KC1
D2	F10	SM813	D2	0815	KC2
D2#	F10	SM814	D2#	0816	KC3
E2	F10	SM815	E2	0817	KC4
F2	F10	SM816	F2	0818	KC5
F2#	F10	SM817	F2#	0819	KC6
G2	F10	SM818	G2	0820	KC7
G2#	F10	SM819	G2#	0821	KC8
A2	F10	SM820	A2	0822	KC9
A2#	F10	SM821	A2#	0823	KC0
B2	F10	SM822	B2	0824	KC1
C3	F10	SM823	C3	0825	KC2
C3#	F10	SM824	C3#	0826	KC3
D3	F10	SM825	D3	0827	KC4
D3#	F10	SM826	D3#	0828	KC5
E3	F10	SM827	E3	0829	KC6
F3	F10	SM828	F3	0830	KC7
F3#	F10	SM829	F3#	0831	KC8
G3	F10	SM830	G3	0832	KC9
G3#	F10	SM831	G3#	0833	KC0
A3	F10	SM832	A3	0834	KC1
A3#	F10	SM833	A3#	0835	KC2
B3	F10	SM834	B3	0836	KC3
C4	F10	SM835	C4	0837	KC4
C4#	F10	SM836	C4#	0838	KC5
D4	F10	SM837	D4	0839	KC6
D4#	F10	SM838	D4#	0840	KC7
E4	F10	SM839	E4	0841	KC8
F4	F10	SM840	F4	0842	KC9
F4#	F10	SM841	F4#	0843	KC0
G4#	F10	SM842	F4#	0844	KC1
	F10	SM843	G4#	0845	KC2
	F10	SM844	G4#	0846	KC3
	F10	SM845	G4#	0847	KC4
	F10	SM846	G4#	0848	KC5
	F10	SM847	G4#	0849	KC6
	F10	SM848	G4#	0850	KC7
	F10	SM849	G4#	0851	KC8
	F10	SM850	G4#	0852	KC9
	F10	SM851	G4#	0853	KC0
	F10	SM852	G4#	0854	KC1
	F10	SM853	G4#	0855	KC2
	F10	SM854	G4#	0856	KC3
	F10	SM855	G4#	0857	KC4
	F10	SM856	G4#	0858	KC5
	F10	SM857	G4#	0859	KC6
	F10	SM858	G4#	0860	KC7
	F10	SM859	G4#	0861	KC8
	F10	SM860	G4#	0862	KC9
	F10	SM861	G4#	0863	KC0
	F10	SM862	G4#	0864	KC1
	F10	SM863	G4#	0865	KC2
	F10	SM864	G4#	0866	KC3
	F10	SM865	G4#	0867	KC4
	F10	SM866	G4#	0868	KC5
	F10	SM867	G4#	0869	KC6
	F10	SM868	G4#	0870	KC7
	F10	SM869	G4#	0871	KC8
	F10	SM870	G4#	0872	KC9
	F10	SM871	G4#	0873	KC0
	F10	SM872	G4#	0874	KC1
	F10	SM873	G4#	0875	KC2
	F10	SM874	G4#	0876	KC3
	F10	SM875	G4#	0877	KC4
	F10	SM876	G4#	0878	KC5
	F10	SM877	G4#	0879	KC6
	F10	SM878	G4#	0880	KC7



NOTE

▶ ○ : 1SS133T-77

G4	F18	SM879	G4	0879	KC0
G4#	F18	SM880	G4#	0880	KC1
A4	F18	SM881	A4	0881	KC2
A4#	F18	SM882	A4#	0882	KC3
B4	F18	SM883	B4	0883	KC4
C5	F18	SM884	C5	0884	KC5
C5#	F18	SM885	C5#	0885	KC6
D5	F18	SM886	D5	0886	KC7
D5#	F18	SM887	D5#	0887	KC8
E5	F18	SM888	E5	0888	KC9
F5	F18	SM889	F5	0889	KC0
F5#	F18	SM890	F5#	0890	KC1
G5	F18	SM891	G5	0891	KC2
G5#	F18	SM892	G5#	0892	KC3
A5	F18	SM893	A5	0893	KC4
A5#	F18	SM894	A5#	0894	KC5
B5	F18	SM895	B5	0895	KC6
C6	F18	SM896	C6	0896	KC7
C6#	F18	SM897	C6#	0897	KC8
D6	F18	SM898	D6	0898	KC9
D6#	F18	SM899	D6#	0899	KC0
E6	F18	SM900	E6	0900	KC1
F6	F18	SM901	F6	0901	KC2
F6#	F18	SM902	F6#	0902	KC3
G6	F18	SM903	G6	0903	KC4
G6#	F18	SM904	G6#	0904	KC5
A6	F18	SM905	A6	0905	KC6
A6#	F18	SM906	A6#	0906	KC7
B6	F18	SM907	B6	0907	KC8
C7	F18	SM908	C7	0908	KC9
C7#	F18	SM909	C7#	0909	KC0
D7	F18	SM910	D7	0910	KC1
D7#	F18	SM911	D7#	0911	KC2
E7	F18	SM912	E7	0912	KC3
F7	F18	SM913	F7	0913	KC4
F7#	F18	SM914	F7#	0914	KC5
G7	F18	SM915	G7	0915	KC6
	F18	SM916	G7	0916	KC7
	F18	SM917	G7	0917	KC8
	F18	SM918	G7	0918	KC9
	F18	SM919	G7	0919	KC0
	F18	SM920	G7	0920	KC1
	F18	SM921	G7	0921	KC2
	F18	SM922	G7	0922	KC3
	F18	SM923	G7	0923	KC4
	F18	SM924	G7	0924	KC5
	F18	SM925	G7	0925	KC6
	F18	SM926	G7	0926	KC7
	F18	SM927	G7	0927	KC8
	F18	SM928	G7	0928	KC9
	F18	SM929	G7	0929	KC0
	F18	SM930	G7	0930	KC1
	F18	SM931	G7	0931	KC2
	F18	SM932	G7	0932	KC3
	F18	SM933	G7	0933	KC4
	F18	SM934	G7	0934	KC5
	F18	SM935	G7	0935	KC6
	F18	SM936	G7	0936	KC7
	F18	SM937	G7	0937	KC8
	F18	SM938	G7	0938	KC9
	F18	SM939	G7	0939	KC0
	F18	SM940	G7	0940	KC1
	F18	SM941	G7	0941	KC2
	F18	SM942	G7	0942	KC3
	F18	SM943	G7	0943	KC4
	F18	SM944	G7	0944	KC5
	F18	SM945	G7	0945	KC6
	F18	SM946	G7	0946	KC7
	F18	SM947	G7	0947	KC8
	F18	SM948	G7	0948	KC9
	F18	SM949	G7	0949	KC0
	F18	SM950	G7	0950	KC1
	F18	SM951	G7	0951	KC2
	F18	SM952	G7	0952	KC3
	F18	SM953	G7	0953	KC4

JCM764T-KY1M

JCM764T-KY2M

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