

CASIO®

Service Manual

(without price)

AP-500

JAN. 2007



AP-500

ELECTRONIC KEYBOARD

CONTENTS

Specifications	1
Block Diagrams	2
Circuit Description	3
Printed Circuit Board	5
Disassembly	9
Diagnostic Program	17
Exploded View	21
Parts List	23
Schematic Diagrams	28

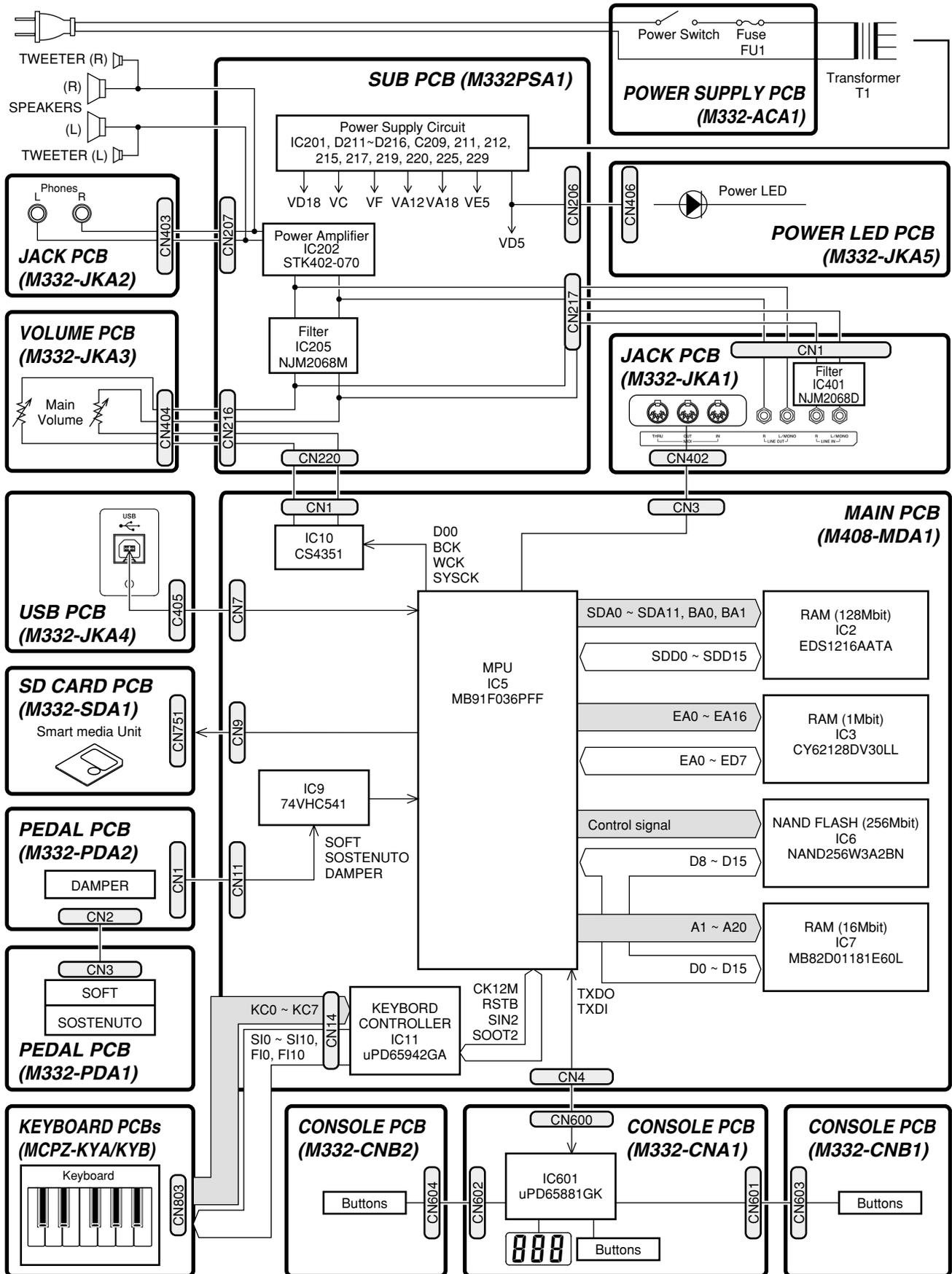
SPECIFICATIONS

GENERAL

Keyboard	88-key piano keyboard, with Touch Response
Maximum Polyphony	128 notes
Tones	164 (with Layer and Split)
Effects	DSP, Reverb (4 types), chorus (4 types), Acoustic Resonance, Brilliance (-3 to -1, 1 to 3)
Metronome	<ul style="list-style-type: none">• Beats: 0, 2, 3, 4, 5, 6• Tempo Range: 20 to 255
Demo Songs	<ul style="list-style-type: none">• Number of Songs: 74 songs (All-song repeat play)
Music Library	<ul style="list-style-type: none">• Number of Songs: 60• User Songs: Up to 10(Up to approximately 3.1 MB; up to approximately 318 KB per song)** Based on 1 KB = 1024 bytes, 1 MB = 1024² bytes.• Song volume: Adjustable• Part On/Off: L, R
Recorder	<ul style="list-style-type: none">• Functions: Real-time recording, playback• Number of Songs: 5• Number of Tracks: 2• Capacity: Approximately 50,000 notes total(Up to approximately 10,000 notes per song)• Recorded Data Protection: Built-in flash memory
Pedals	Damper, soft, sostenuto
Other Functions	<ul style="list-style-type: none">• Touch Select: 3 types, Off• Transpose: 1 octave (-6 to 0 to 5)• Tuning: A4 = 440.0 Hz ±50 cents (variable)
MIDI	16-channel multi-timbre receive
SD Memory Card	<ul style="list-style-type: none">• SD memory card slot• Supported SD Memory Cards: Up to 1 GB (Larger capacity cards not supported.)• Functions: SMF playback, data storage, data recall, card format
Inputs/Outputs	<ul style="list-style-type: none">• PHONES jack: Stereo standard jacks × 2• MIDI THRU/OUT/IN terminals• LINE IN R, L/MONO jacks: Standard jacks × 2Input impedance: 7.0KΩInput Voltage: 290mV (RMS)• LINE OUT R, L/MONO jacks: Standard jacks × 2Output impedance: 1.1KΩOutput Voltage: 2.3V (RMS) MAX• USB port: Type B• Pedal connector
Speakers	∅16cm × 2 + ∅5cm × 2 (Output 30W + 30W)
Power Requirements	AP-500: 120V AP-500V: 220-240V
Power Consumption	AP-500: 78W AP-500V: 78W
Dimensions	Digital Piano and Stand: 138.1 (W) × 47.3 (D) × 87.4 (H) cm (54 ⁷ / ₁₆ × 18 ¹⁰ / ₁₆ × 34 ⁷ / ₁₆ inch)
Weight	Digital Piano and Stand: approximately 53.0kg (116.8 lbs)

- Specifications and designs are subject to change without notice.
- The power cord of the AP-500 is hard-wired to the digital piano.
- The power cord of the AP-500V is detachable.

BLOCK DIAGRAM

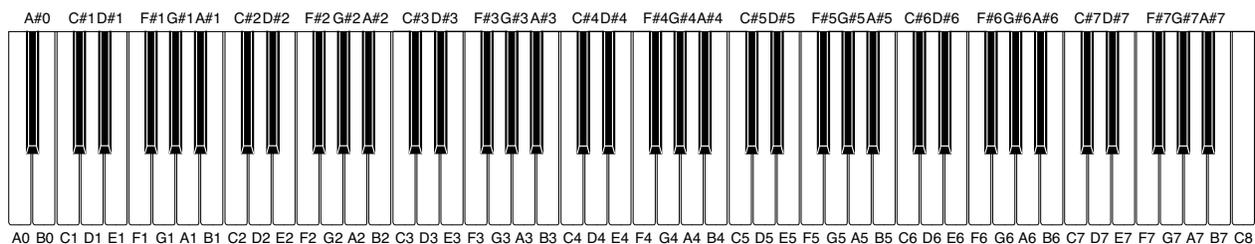


CIRCUIT DESCRIPTION

KEY MATRIX

	KC0	KC1	KC2	KC3	KC4	KC5	KC6	KC7
FI0	A0①	A0#①	B0①	C1①	C1#①	D1①	D1#①	E1①
SI0	A0②	A0#②	B0②	C1②	C1#②	D1②	D1#②	E1②
FI1	F1①	F1#①	G1①	G1#①	A1①	A1#①	B1①	C2①
SI1	F1②	F1#②	G1②	G1#②	A1②	A1#②	B1②	C2②
FI2	C2#①	D2①	D2#①	E2①	F2①	F2#①	G2①	G2#①
SI2	C2#②	D2②	D2#②	E2②	F2②	F2#②	G2②	G2#②
FI3	A2①	A2#①	B2①	C3①	C3#①	D3①	D3#①	E3①
SI3	A2②	A2#②	B2②	C3②	C3#②	D3②	D3#②	E3②
FI4	F3①	F3#①	G3①	G3#①	A3①	A3#①	B3①	C4①
SI4	F3②	F3#②	G3②	G3#②	A3②	A3#②	B3②	C4②
FI5	C4#①	D4①	D4#①	E4①	F4①	F4#①	G4①	G4#①
SI5	C4#②	D4②	D4#②	E4②	F4②	F4#②	G4②	G4#②
FI6	A4①	A4#①	B4①	C5①	C5#①	D5①	D5#①	E5①
SI6	A4②	A4#②	B4②	C5②	C5#②	D5②	D5#②	E5②
FI7	F5①	F5#①	G5①	G5#①	A5①	A5#①	B5①	C6①
SI7	F5②	F5#②	G5②	G5#②	A5②	A5#②	B5②	C6②
FI8	C6#①	D6①	D6#①	E6①	F6①	F6#①	G6①	G6#①
SI8	C6#②	D6②	D6#②	E6②	F6②	F6#②	G6②	G6#②
FI9	A6①	A6#①	B6①	C7①	C7#①	D7①	D7#①	E7①
SI9	A6②	A6#②	B6②	C7②	C7#②	D7②	D7#②	E7②
FI10	F7①	F7#①	G7①	G7#①	A7①	A7#①	B7①	C8①
SI10	F7②	F7#②	G7②	G7#②	A7②	A7#②	B7②	C8②

NOMENCLATURE OF KEYS



LED MATRIX

	LH9	LH10	LH11	LH12	LH13
LL0	GRAND PIANO 1	ELEC PIANO 1	60'S E.PIANO	PIPE ORGAN	ACOUSTIC BASS
LL1	GRAND PIANO 2	ELEC PIANO 2	HARPSI-CHORD	PERC ORGAN	RIDE ACO BASS
LL2	GRAND PIANO 3	ELEC PIANO 3	VIBRA-PHONE	STRINGS	VARIOUS/ GM TONES

	1LH23	1LH24	1LH25	2LH7	2LH8
1LL0	REC	R/2	MUSIC LIBRARY	—	—
1LL1	PLAY	L/1	PLAY/STOP	—	—
1LL2	—	—	PLAY/STOP	—	—
2LL0	—	—	—	CHORUS	BRILLIANCE
2LL1	—	—	—	REVERB	CARD
2LL2	—	—	—	SPLIT	—

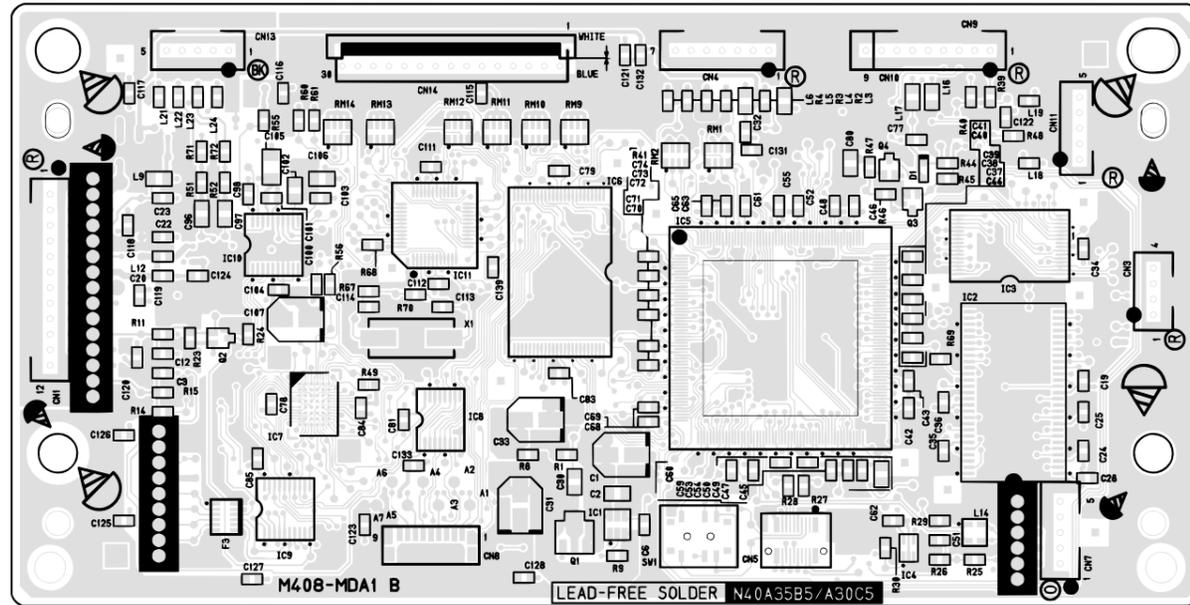
BUTTON MATRIX

	SI3	SI4	SI5	SI6	SI7
SC3	TEMPO	MODE	LAYER BALANCE	ACOUSTIC BASS	TONE SELECT
SC4	BEAT	TOUCH RESPONSE	EFFECT	RIDE ACO BASS	—
SC5	METRONOME VOLUME	TRANSPOSE	MIDI	—	—
SC6	SONG-ACCOMP VOLUME	TUNE	OTHERS	—	—

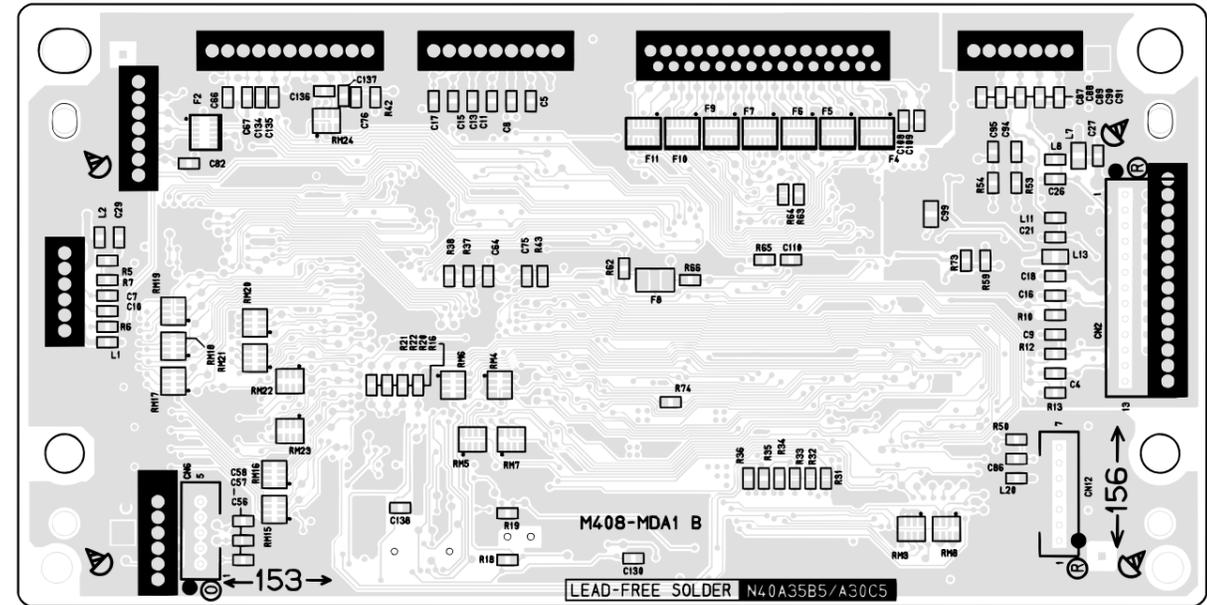
	1SI0	1SI1	1SI2	1SI3	2SI6	2SI7
1SC0	YES ▲	—	START/ STOP	PART/ TRACK	—	—
1SC1	—	NO ▼	RECORDER	RHYTHM	—	—
1SC2	SYNCHRO/ FILL-IN	INTRO/ ENDING	TEMPO/ SETTING	METRONOME	—	—
2SC4	—	—	—	—	—	CHORUS TYPE
2SC5	—	—	—	—	SPLIT POINT	BRILLIANCE LEVEL
2SC6	—	—	—	—	REVERB TYPE	CARD

PRINTED CIRCUIT BOARDS

Main PCB M408-MDA1

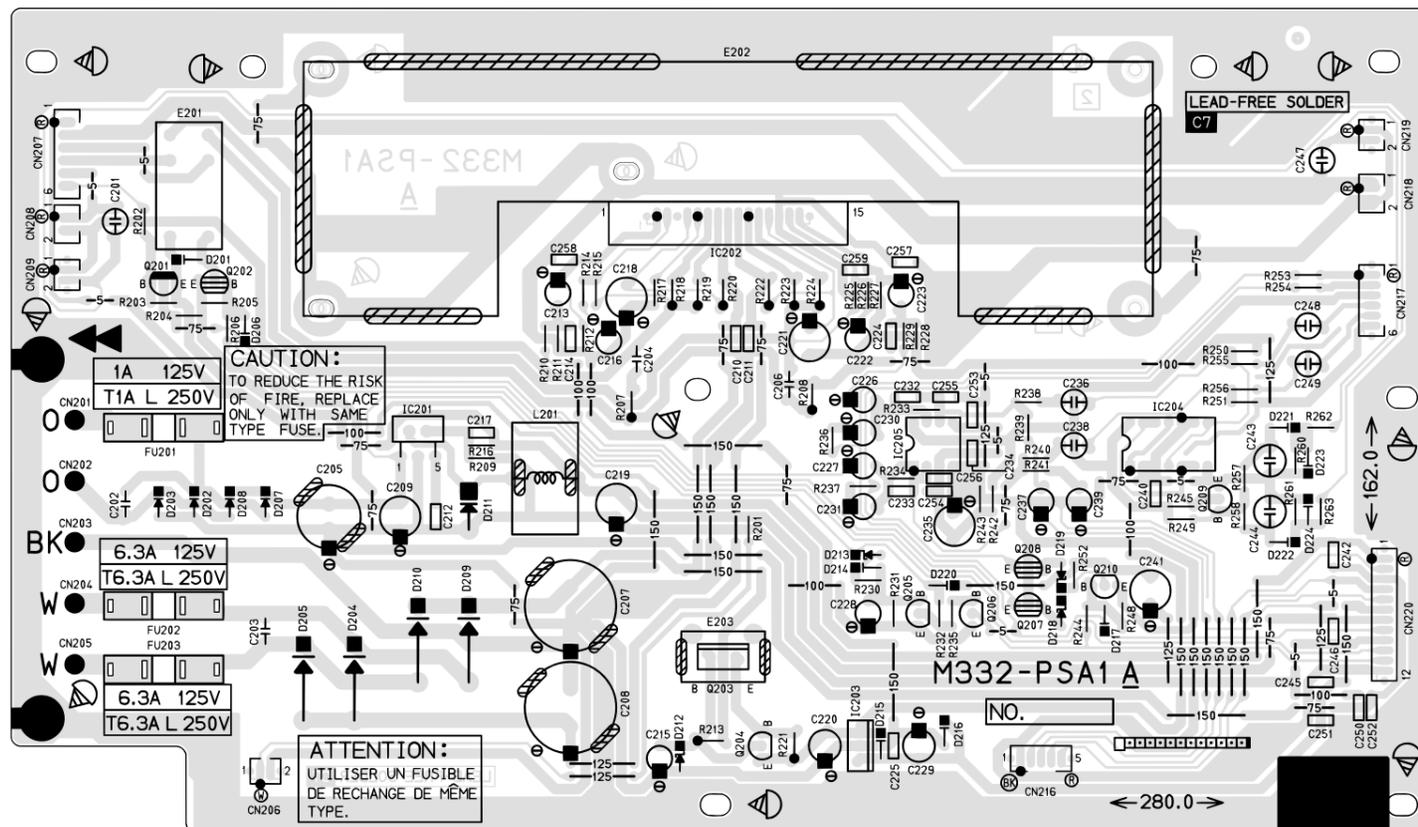


Top View

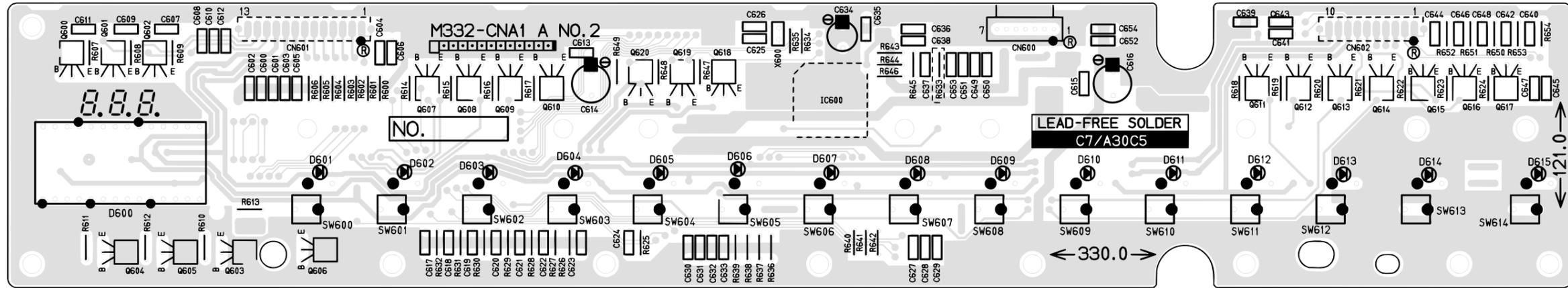


Bottom View

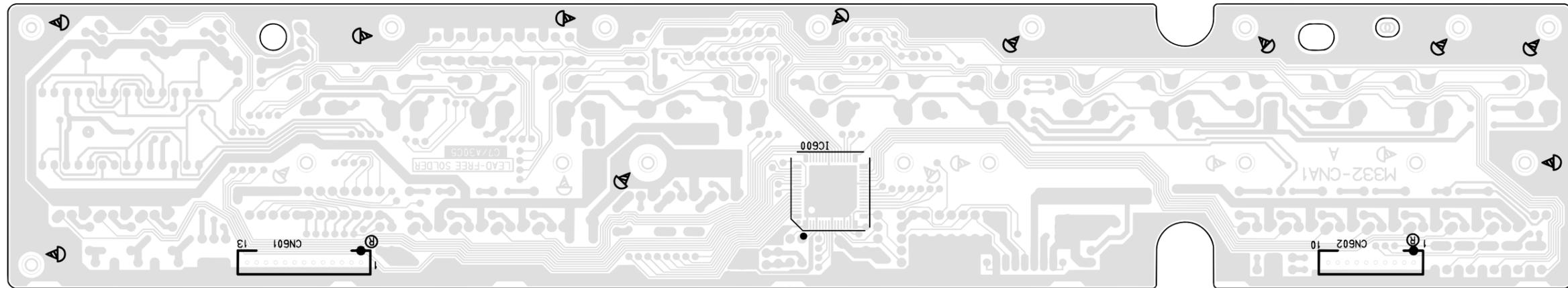
Console PCB M332-PSA1



Sub PCB M332-CNA1

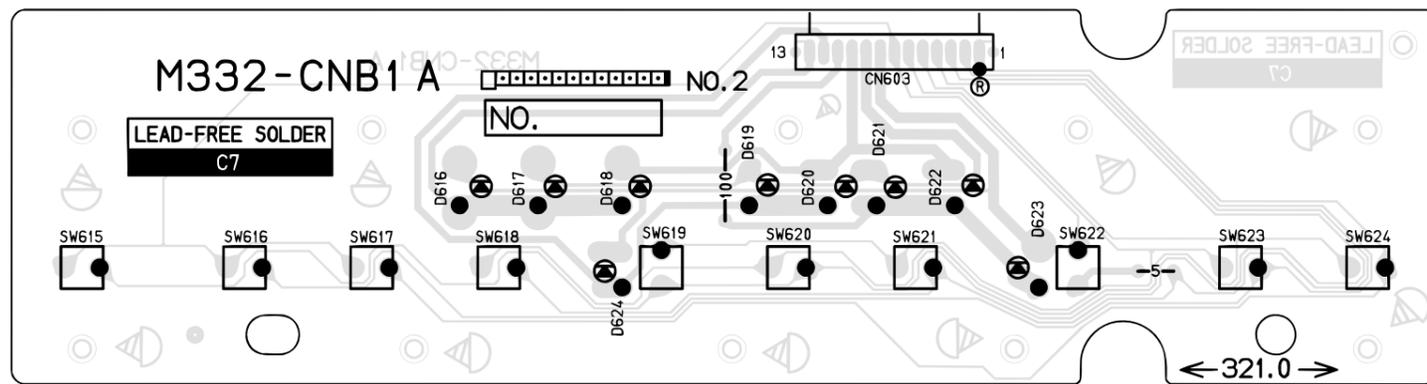


Top View

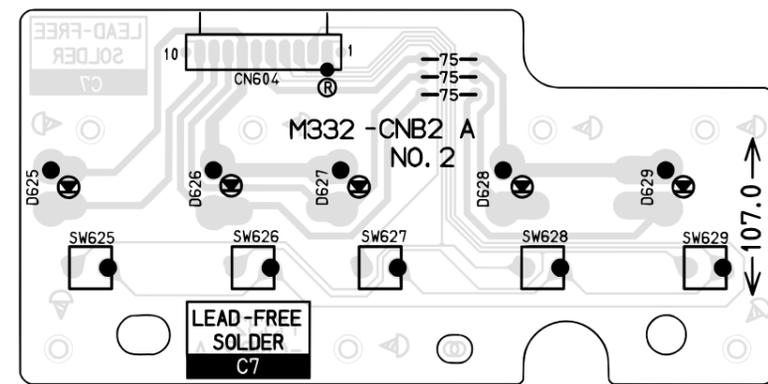


Bottom View

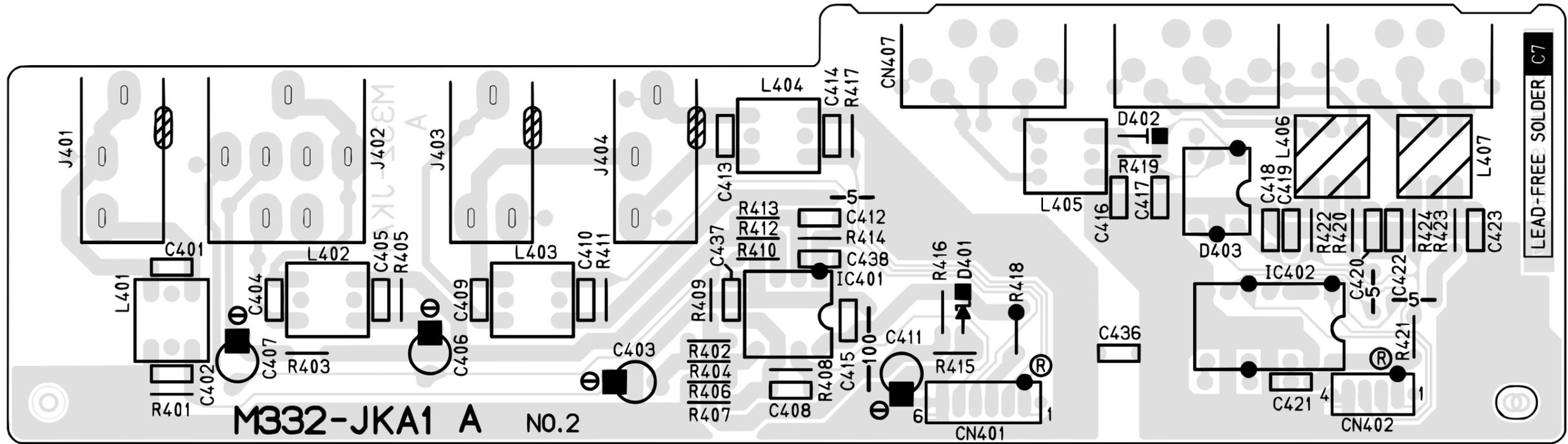
Console PCB M332-CNB1



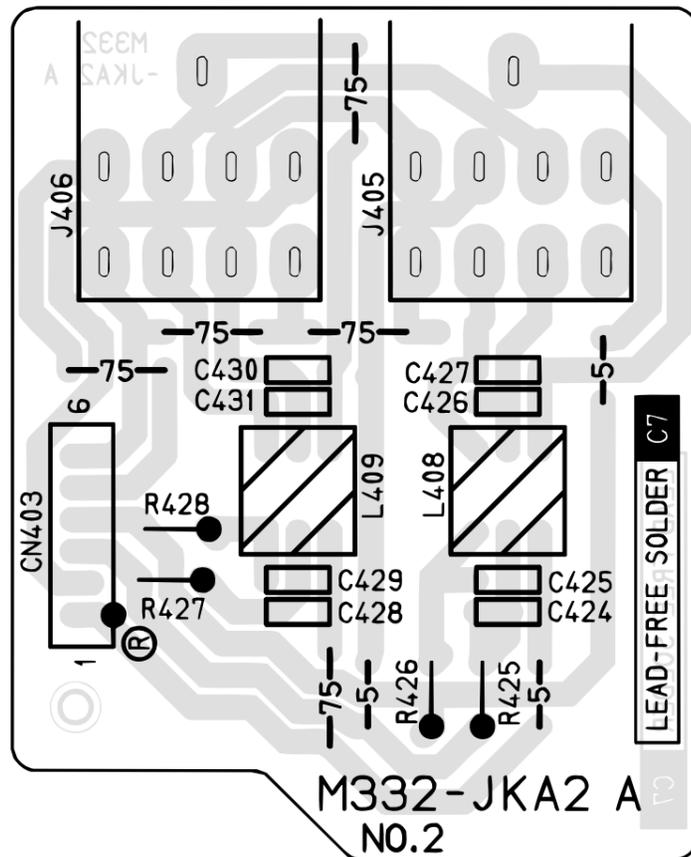
Console PCB M332-CNB2



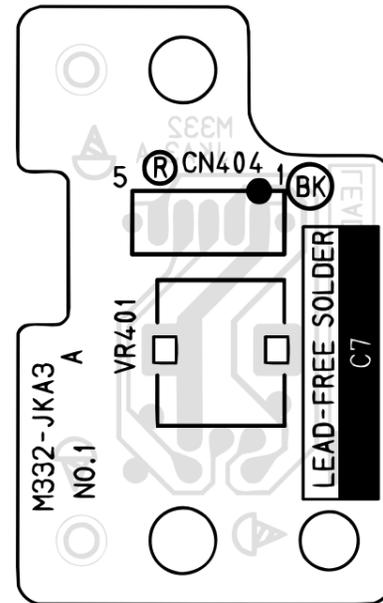
Jack PCB M332-JKA1



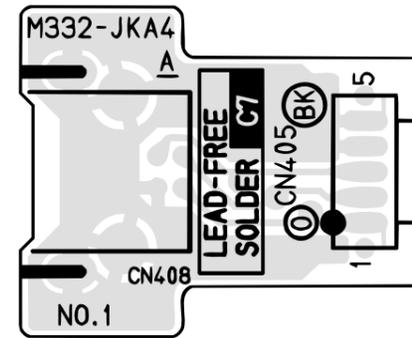
Jack PCB M332-JKA2



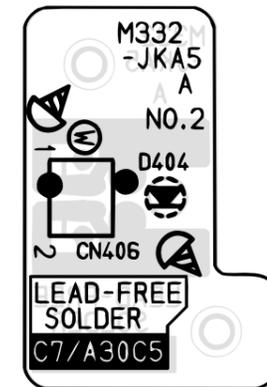
Jack PCB M332-JKA3



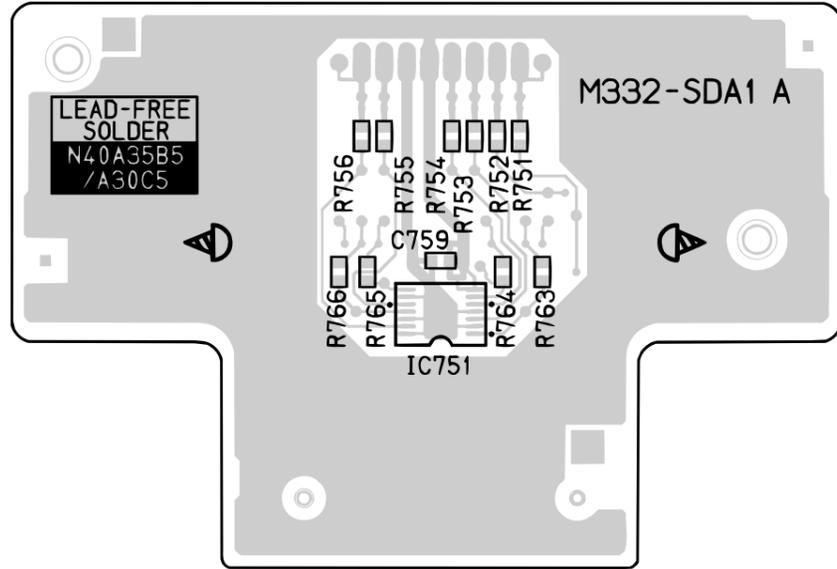
Jack PCB M332-JKA4



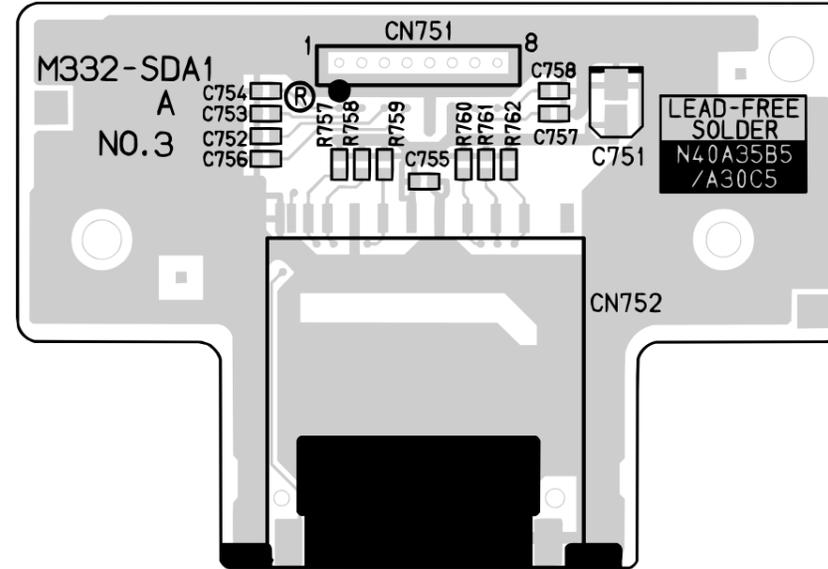
Jack PCB M332-JKA5



SD CARD PCB M332-SDA1

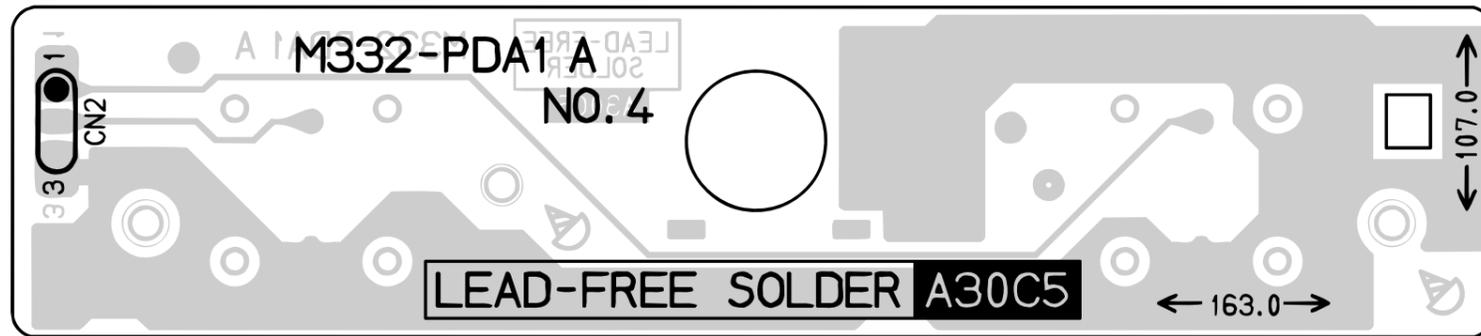


Top View

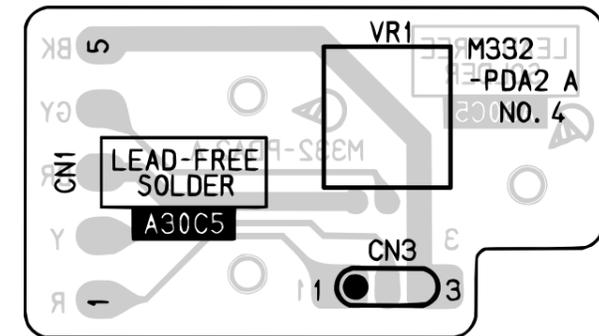


Bottom View

Power supply PCB M332-PDA1

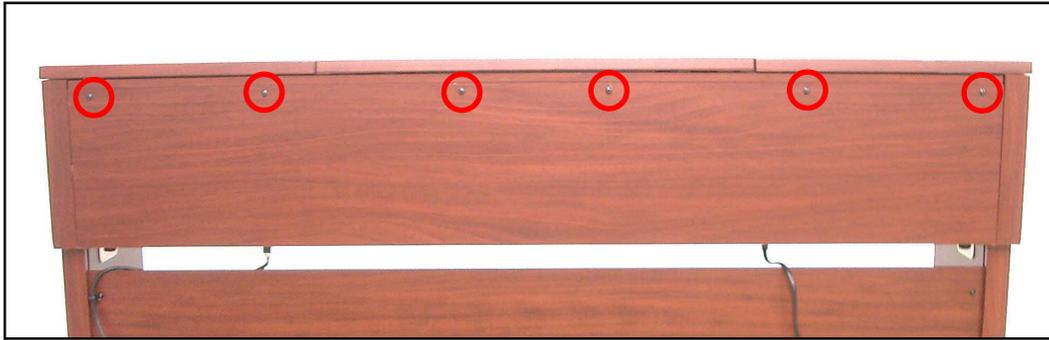


Power supply PCB M332-PDA2



DISASSEMBLY

1. Remove 6 screws.



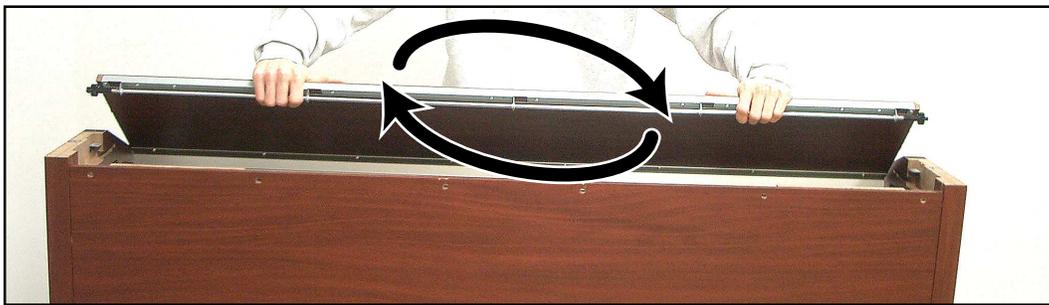
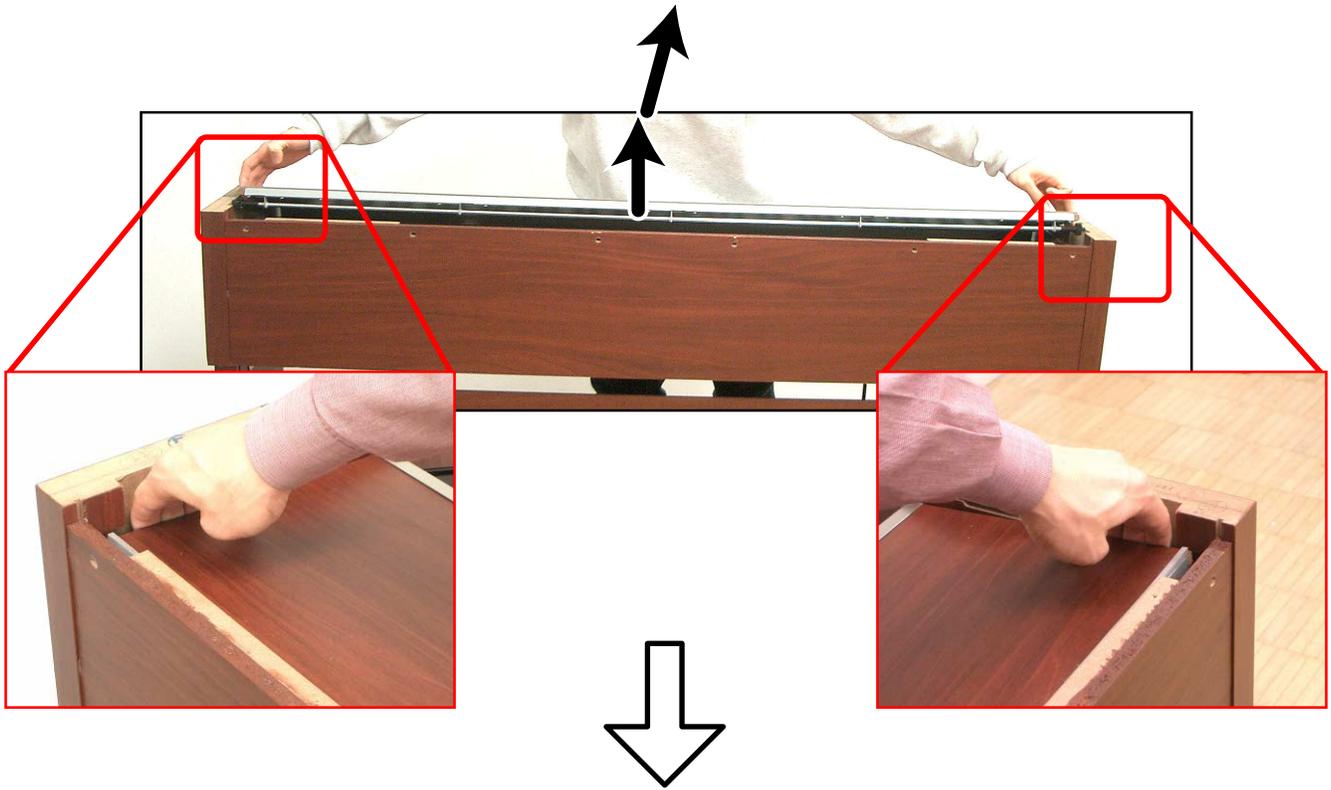
2. Remove 2 T-BRD-S assy.



3. Remove 6 screws.
4. Remove the T-BRD-M assy.

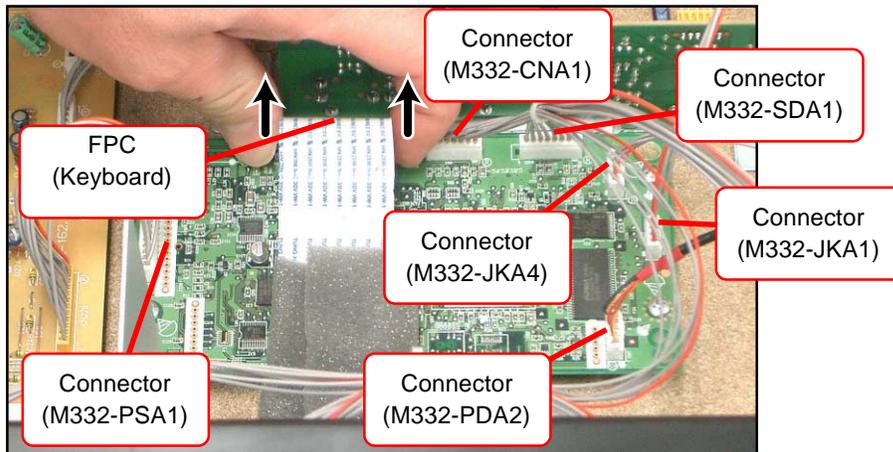


5. Remove the Key cover.

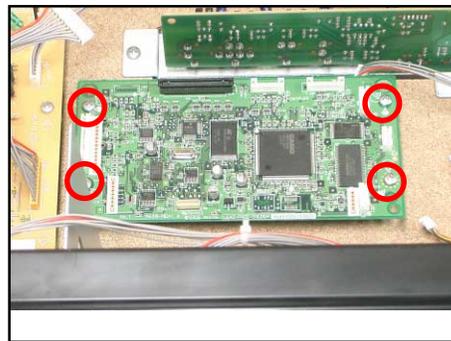


6. Removing the M332-MDA1 PCB

6-1. Remove the 6 connectors, release the lock and then remove the FPC.

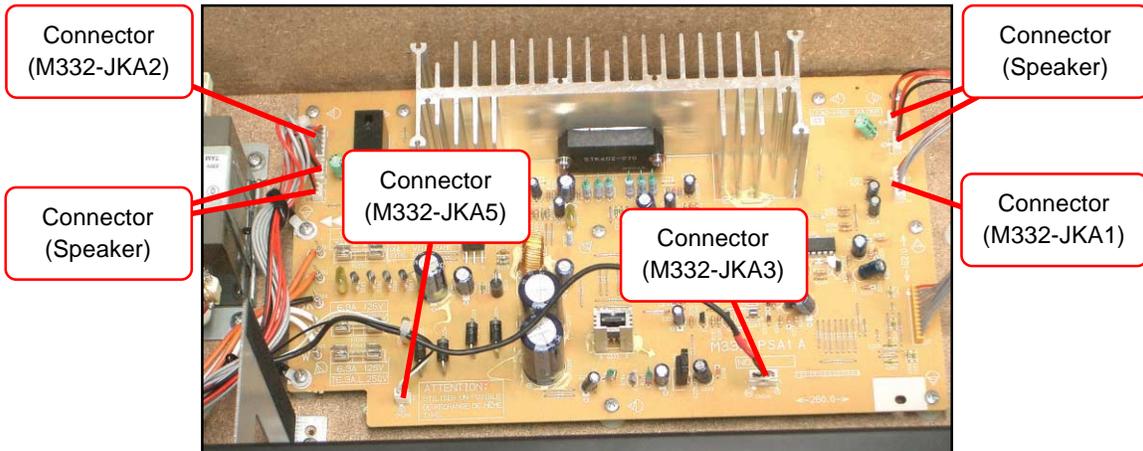


6-1. Remove 4 screws and the M332-MDA1 PCB.



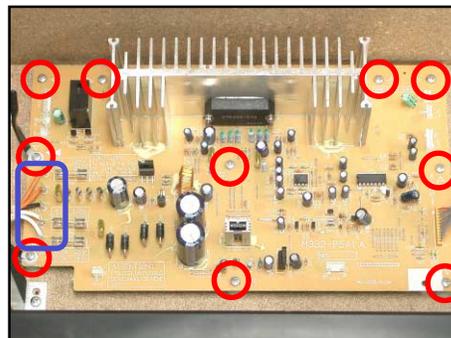
7. Removing the M332-PSA1 PCB

7-1. Remove the 8 connectors.

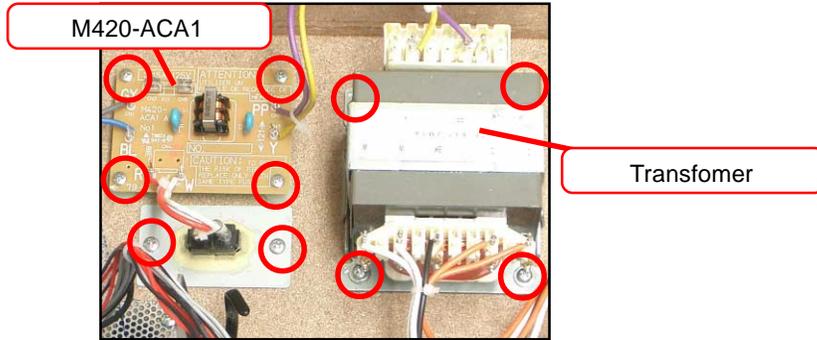


7-2. Remove 5 wires.

7-3. Remove 10 screws and the M332-PSA1 PCB.



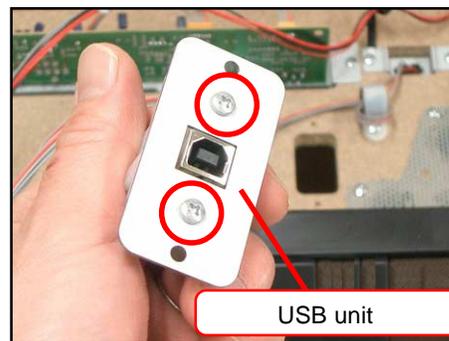
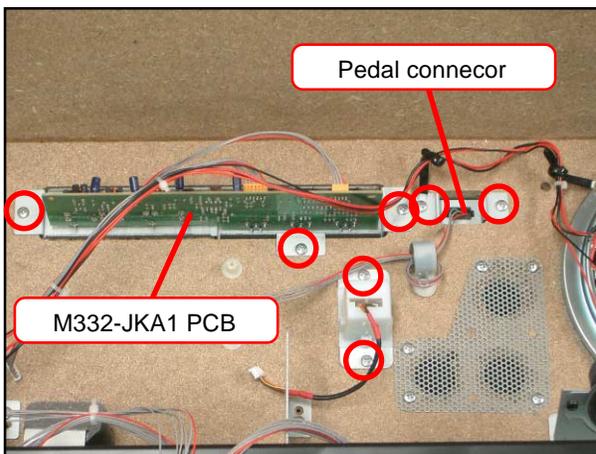
8. Remove 10 screws and the Power unit (Transformer, M420-ACA1).



9. Removing the M332-JKA1 PCB, M332-JKA4 PCB and Pedal connector

9-1. Remove 2 screws and the USB unit.

9-2. Remove 2 screws and the M332-JKA4 PCB.



9-3. Remove 3 screws and the M332-JKA1 PCB.

9-4. Remove 2 screws and the Pedal connector.

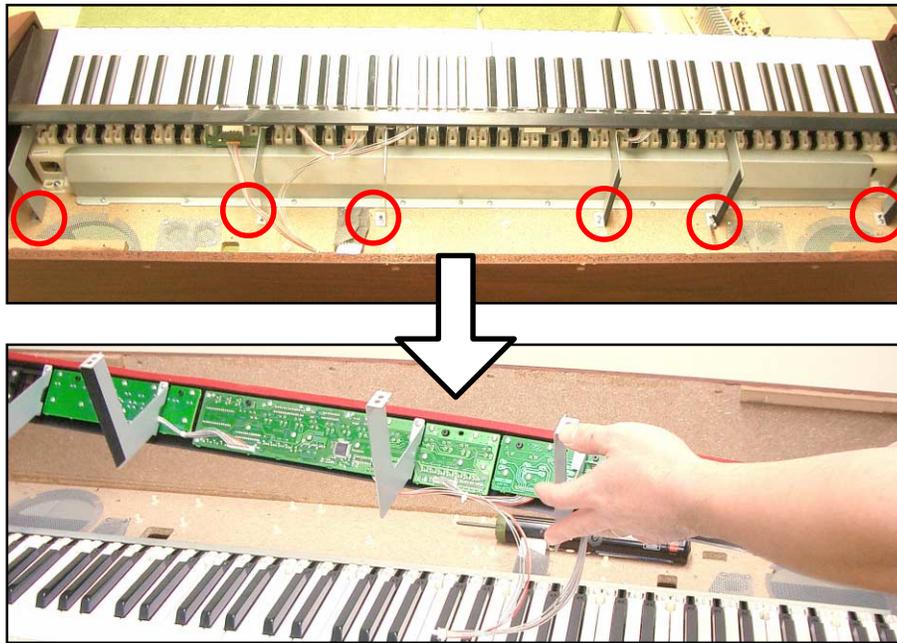
10. Remove 8 screws and 2 Speakers (big).

11. Remove 4 screws and 2 Speakers unit (small).

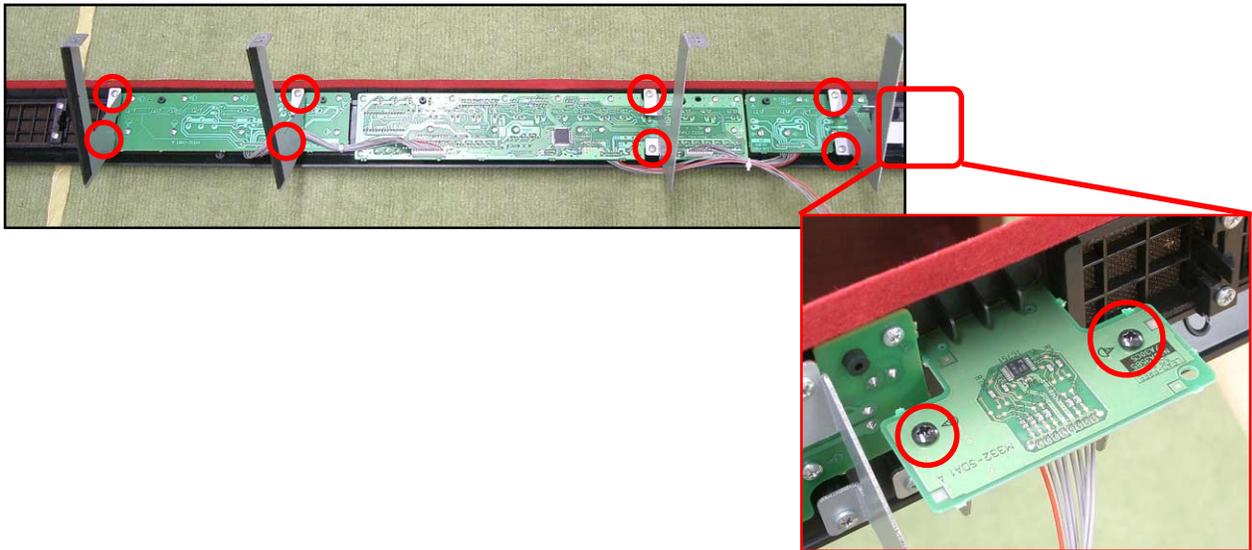
12. Remove 4 screws and 2 Speakers (small).



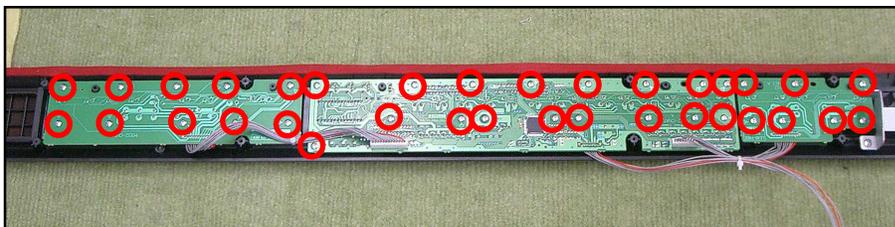
13. Removing the M332-CNA1, M332-CNB1, M332-CNB2 and M332-SDA1
13-1. Remove 6 screws and the Console unit.



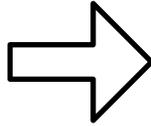
- 13-2. Remove 2 screws and the M332-SDA1.
13-3. Remove 8 screws and 4 CN bracket.



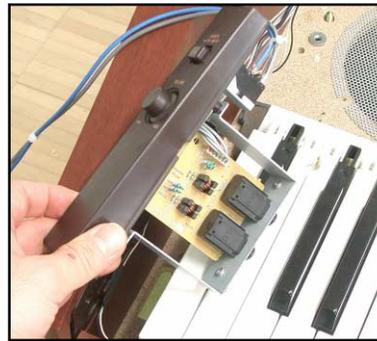
- 13-4. Remove 34 screws and the M332-CNA1, M332-CNB1 and M332-CNB2.



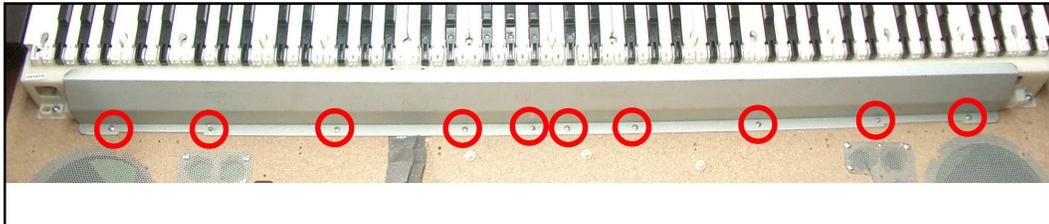
14. Remove 2 screws and the S-BOLCK (R).



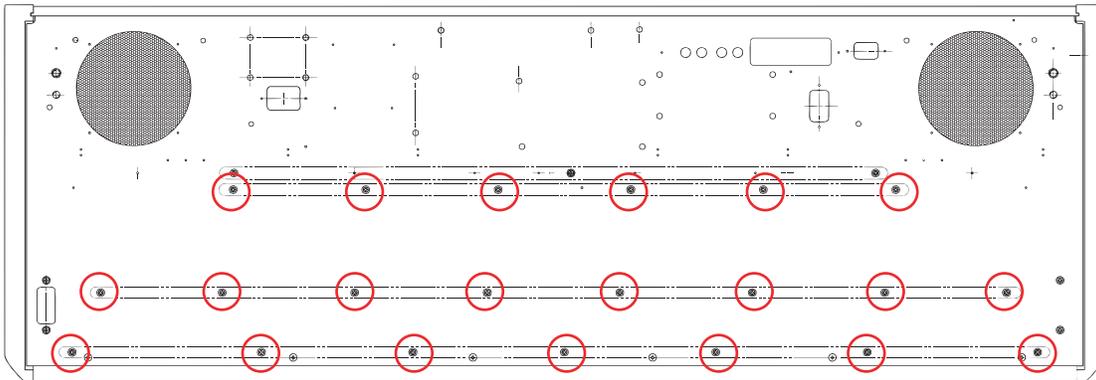
15. Remove 2 screws and the M332-JKA3 and M332-JKA2.



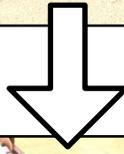
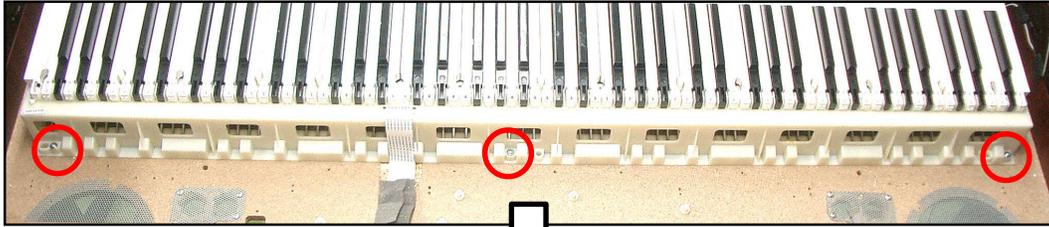
16. Removing the KEYBOARD
16-1. Remove 10 screws.



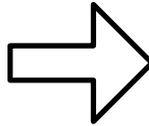
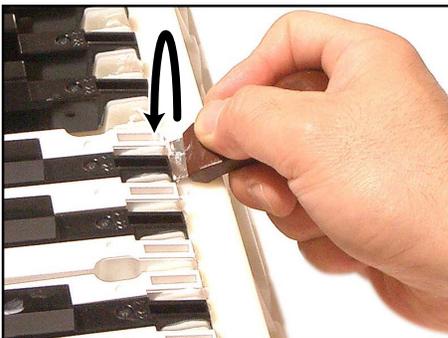
16-2. Remove 21 screws.



16-3. Remove 3 screws and the Keyboard.

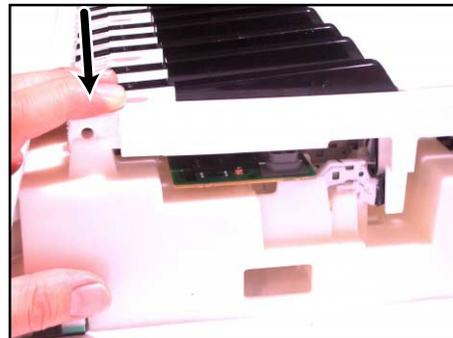
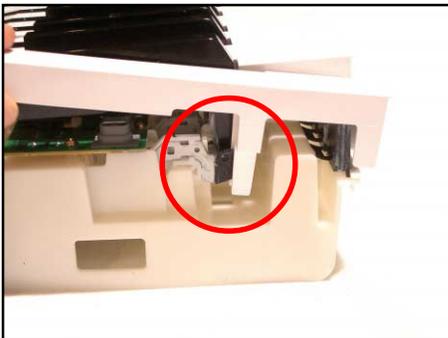


16-4. Remove the keys.



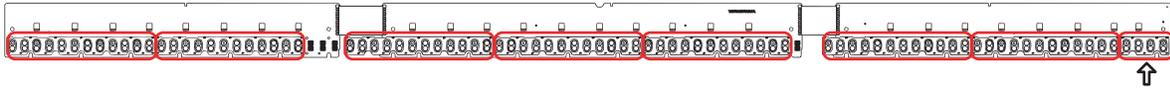
Caution while assembling the keys.

- Set the key as shown in figures below.



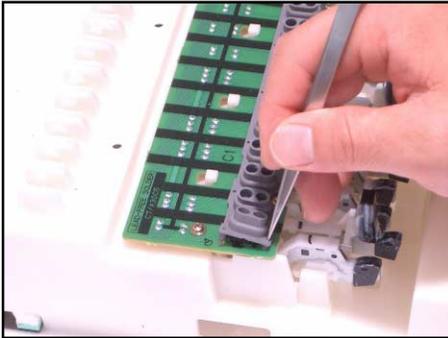
16-5. Remove 8 rubber keys.

* One of the keys has the different length from others.



Caution while assembling the rubber keys.

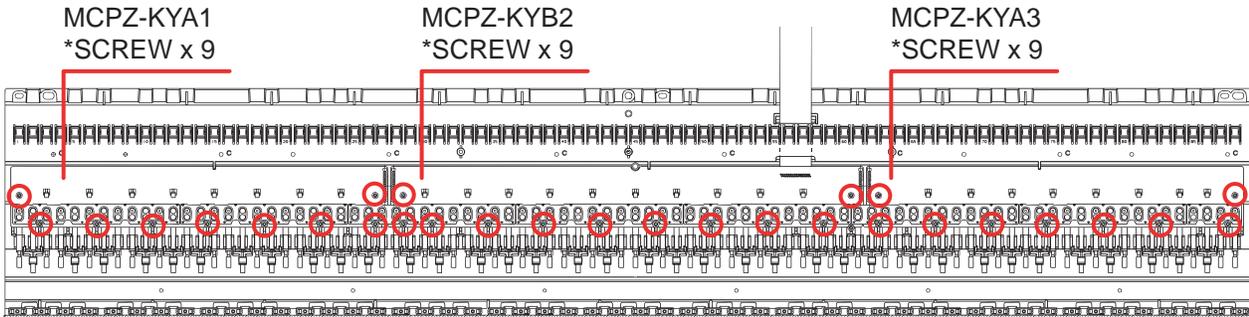
- Push the rubber keys with the tool like the tweezers, so the projections of the rubber keys matches with the holes of the lower case.



16-6. Remove 9 screws then the PCB (MCPZ-KYA1).

16-7. Remove 11 screws then the PCB (MCPZ-KYB2).

16-8. Remove 9 screws then the PCB (MCPZ-KYA3).



17. Remove 2 screws and the M332-JKA5.



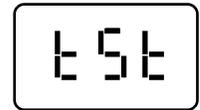
DIAGNOSTIC PROGRAM

■ Initial Setup

1. Connect the Pedal unit and AC adaptor.
2. "Main" volume: MAX.

■ How to start diagnostic program

1. Press and hold "TEMPO/SETTING", "✓/NO" and "∧/YES" buttons.
2. "POWER" switch "ON".
3. Release "TEMPO/SETTING", "✓/NO" and "∧/YES" buttons.
* The message shown on the right appears on the display.



■ Diagnostic program

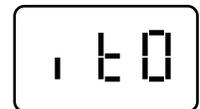
1. RAM check

- ① Press "TONE1" button.
* The message shown on the right appears on the display.

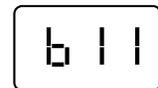


2. MODEL check/ Internal (IC5) ROM check/ External ROM check

- ① Press "TONE3" button to enter "MODEL check".
* The message shown on the right appears on the display.
- ② Press "TONE3" button to enter "Internal (IC5) ROM check".
* The message shown on the right appears on the display.
* Carry out checks for each of the 3 blocks.



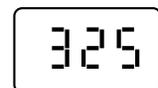
- ③ Press "∧/YES" button.



- ④ Press "∧/YES" button.



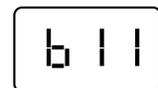
- ⑤ Press "∧/YES" button.



- ⑥ Press "TONE3" button to enter "External ROM check".
* The message shown on the right appears on the display.
* Carry out checks for each of the 3 blocks.



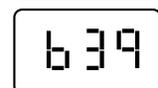
- ⑦ Press "∧/YES" button.



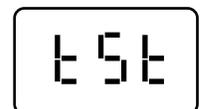
- ⑧ Press "∧/YES" button.



- ⑨ Press "∧/YES" button.



- ⑩ Press "TONE/SONG" button.
* The message shown on the right appears on the display.



3. NAND Flash check

- ① Press “TONE4” button.
 - * The message shown on the right appears on the display.
 - * Confirmation sound sounds.

not

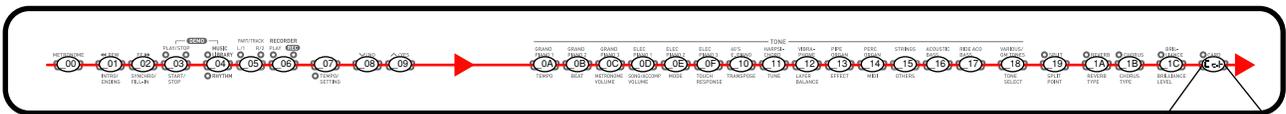
4. Button check

- ① Press “TONE5” button to enter “Button check”.
 - * The message shown on the right appears on the display.

[[H

- ② Press the buttons in the following order.
 - * Confirmation sound sounds.
 - * If there is a fault with the buttons or you press the wrong button, an error tone sounds and the message shown on the right is displayed.

[[Er



[[ot

5. Pedal check

- ① Press “CARD” button.
 - * The message shown on the right appears on the display.

[[CH

- ② As you gradually press down on the damper pedal, the display changes as shown below.

- Pedal pressed lightly.
01 to 3F (hexadecimal)
- Pedal pressed down halfway.
A confirmation tone sounds.
- Pedal pressed down further.
41 to 7E (hexadecimal)
- Pedal pressed down fully.
A confirmation tone sounds.

01 - 3F

HLF

01 - 3F

dUñ

- ③ Press the “SOSTENUTE” pedal.
 - * The message shown on the right appears on the display.

SoS

- ④ Press the “SOFT” pedal.
 - * The message shown on the right appears on the display.

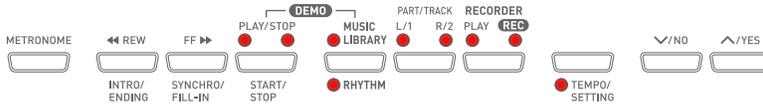
SoF

6. LED/ DISPLAY check

- ① Press "TONE6" button.

* Check that the LEDs turn on and off as described.

< PLAY, STOP, MUSIC LIBRARY, RHYTHM, L/1, R2, PLAY, REC, TEMPO/SETTING >



- ② Press "TONE6" button.

* Check that the LEDs turn on and off as described.

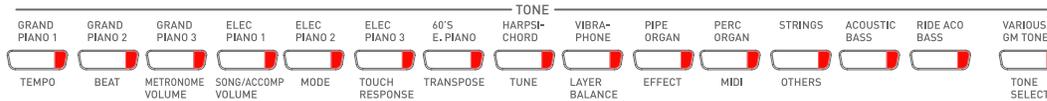
< 7 SEG LED >



- ③ Press "TONE6" button.

* Check that the LEDs turn on and off as described.

< TONE >



- ④ Press "TONE6" button.

* Check that the LEDs turn on and off as described.

< SPLIT, REVERB, CHORUS, BRILLIANCE, CARD >



7. MIDI check

- ① Connect MIDI IN and MIDI OUT terminals with a MIDI cable.

- ② Press "TONE9" button.

* The message shown on the right appears on the display.

* Confirmation sound sounds.

- ③ Disconnect the MIDI cable.



8. USB check

- ① Press "TONE10" button.

- ② Connect USB terminal with a USB cable.

* To a PC that USB driver installed

- ③ Press "TONE10" button.

* The message shown on the right appears on the display.

* Confirmation sound sounds.

- ④ Disconnect the USB cable.



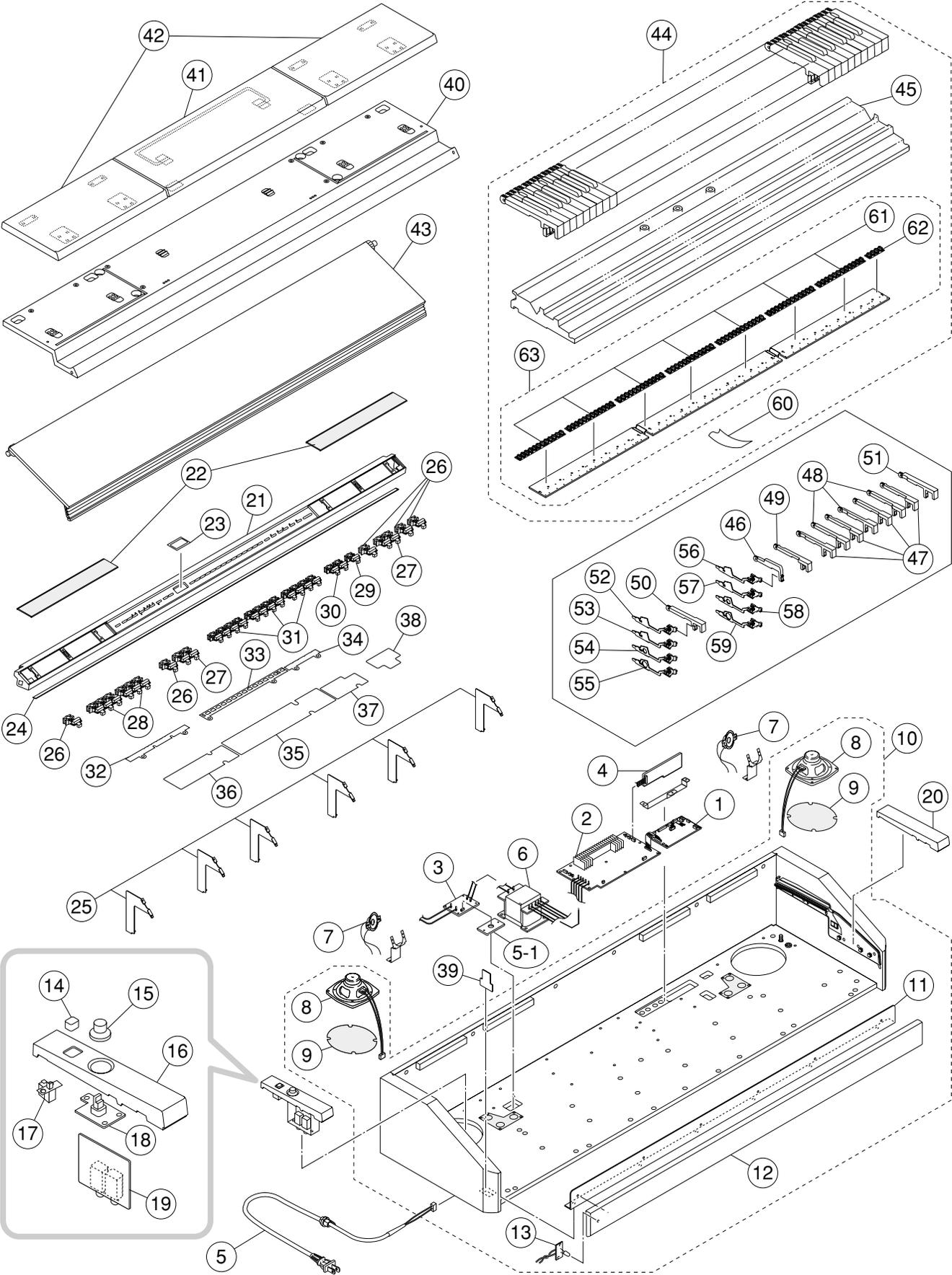
9. CARD check

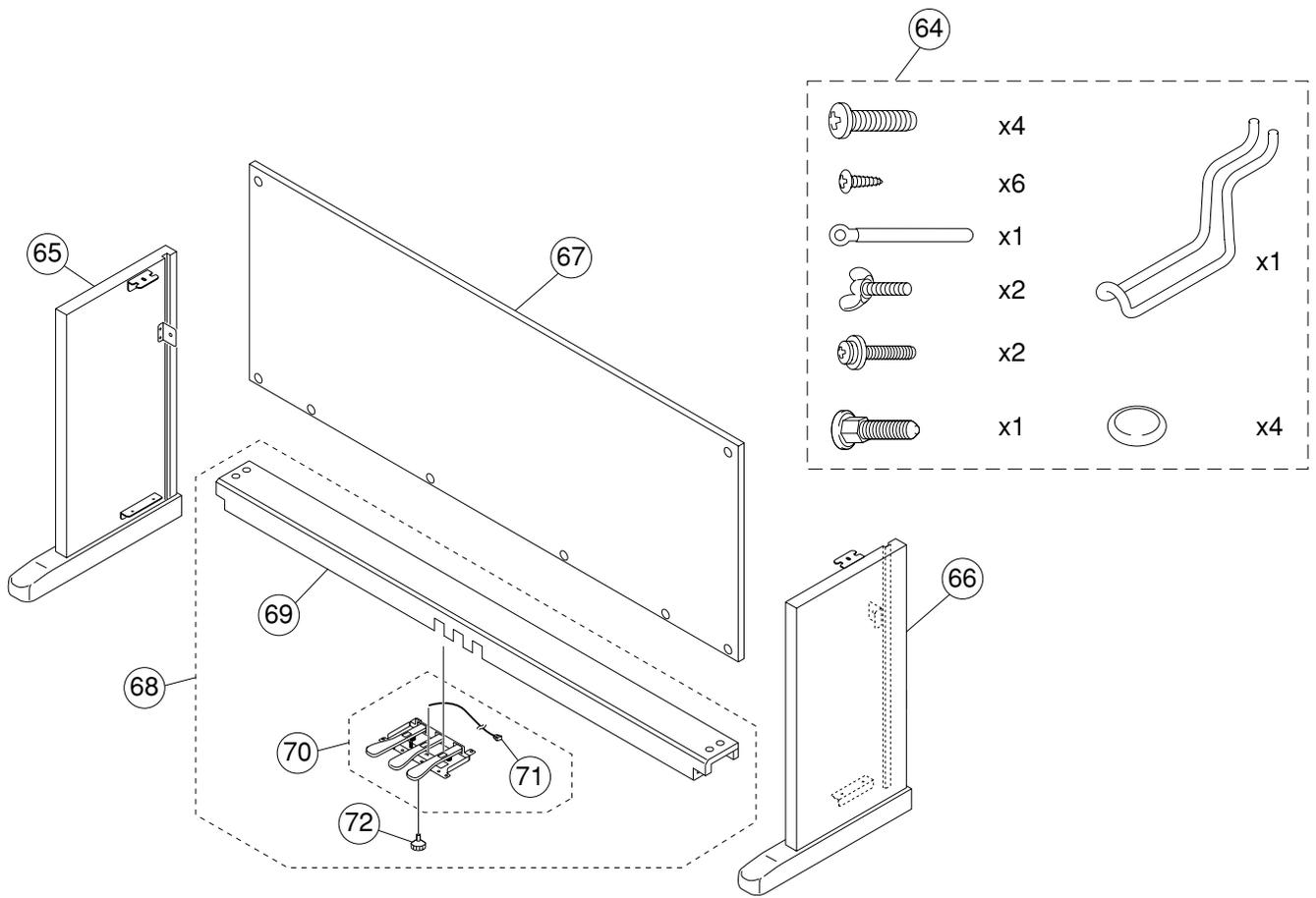
- ① Inset the SD card.
- ② Press and hold the "TONE12" button for at least 1 second.
 - * The display goes blank for several seconds and then the message shown on the right appears.
 - * Confirmation sound sounds.
- ③ Remove the SD card.



Turn off the power to complete the checking.

EXPLODED VIEW





PARTS LIST

AP-500

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.

- 1 AP-500_DI_120V
- 2 AP-500_DI_230V
- 3 AP-500_EU
- 4 AP-500_UK
- 5 AP-500_CI

N	Item	Code No.	Parts Name	Specification	Q'TY					PRICE CODE	R	Remarks
					1	2	3	4	5			
MAIN PCB												
N	1	10263882	PCB ASSY/MAIN	TK-RJM507602*001	1	1	1	1	1	AH	A	
	D1	10009218	DIODE	1SS400TE61	1	1	1	1	1	AA	C	
	F6,7	10122975	NETWORK/R-C	EZASSB516BJ	2	2	2	2	2	AA	C	
	F2,3,4,5, 9,10,11	10122976	NETWORK/R-C	EZASTB63ABJ	7	7	7	7	7	AA	C	
	IC10	10256338	IC	CS4351-CZZR	1	1	1	1	1	AS	C	
	IC1	10241413	IC	R1151N001C-TR-F	1	1	1	1	1	AE	C	
	IC8	10123002	IC	TC74VHC174FT(EL)	1	1	1	1	1	AD	C	
	IC9	10258396	IC	TC74VHC541FT(EL.K)	1	1	1	1	1	AE	C	
	IC4	10197554	IC	TC7SZ126FU(TE85L.F	1	1	1	1	1	AE	C	
N	IC5	10255468	LSI	MB91F036PFF-GE1	1	1	1	1	1	CB	C	
N	IC11	10253886	LSI	UPD65942GA-Y299EUA	1	1	1	1	1	AX	C	
	IC3	10198126	LSI	CY62128DV30LL70ZAX	1	1	1	1	1	BN	C	
N	IC2	10170065	LSI	EDS1216AATA-75-E	1	1	1	1	1	BN	C	
N	IC6	10256337	LSI	NAND256W3A2BN6E	1	1	1	1	1	BS	C	
N	IC7	10262261	LSI	MB82D01181E60LPBNE	1	1	1	1	1	BC	C	
	L14	10158809	COIL	DLP31SN221SL2L	1	1	1	1	1	AI	X	
	L1,2,5,8,11, 12,18,19	10095204	COIL	BLM18AG102SN1D	8	8	8	8	8	AA	X	
	L4,7, 13,16,17	10122963	COIL	BLM21AG102SN1D	5	5	5	5	5	AC	X	
	Q1	22592764	TRANSISTOR	2SB1188T100Q	1	1	1	1	1	AB	X	
	Q2,Q4	10202670	TRANSISTOR	KTA2014-GR-RTK/P	2	2	2	2	2	AA	C	
	Q3	10207675	TRANSISTOR	KTC4075-GR-RTK/P	1	1	1	1	1	AA	C	
	X1	10133372	CRYSTAL OSCILATOR	SMD-49-12M	1	1	1	1	1	AI	C	
PSA PCB												
N	2	10263883	PCB ASSY/PSAJ	TK-RJM507604*001	1				1		B	120V
N	2	10263884	PCB ASSY/PSAE	TK-RJM507626*001		1	1	1			B	230V
	FU201	10052231	FUSE	51MS010L	1				1	AC	C	120V
	FU201	10054029	FUSE	50T010H		1	1	1		AC	C	230V
	FU202,203	10047400	FUSE	51MS063L	2				2	AC	C	120V
	FU202,203	10047413	FUSE	50T063H		2	2	2		AC	C	230V
	IC203	10257492	IC	NJM78M12FA	1	1	1	1	1	AE	X	
	Q203	10206676	TRANSISTOR	KTC2026-Y-U/P	1	1	1	1	1	AB	X	
	L201	10208248	COIL	R187-860400NP	1	1	1	1	1	AC	X	
N	IC204	10235666	I.C.	TC4066BP(N.F)	1	1	1	1	1	AC	C	
N	IC202	10231454	IC	STK402-070-E	1	1	1	1	1	BG	C	
	IC201	10201503	IC	PQ1CG21H2FZH	1	1	1	1	1	AO	C	
	IC205	10206677	IC	NJM2068D-D	1	1	1	1	1	AH	C	
	D202,203, 207,208	10209183	DIODE	PS201-F99	4	4	4	4	4	AA	X	
	D211	10209003	DIODE	1N5822-F100	1	1	1	1	1	AB	X	
	D204,205, 209,210	10209182	DIODE	1N5401-F80	4	4	4	4	4	AA	X	
	D201,206,214, 215,216,217, 220-224	23153132	DIODE	1SS133T-77	11	11	11	11	11	AA	X	
	D212	10047556	ZENER DIODE	MTZJT-7720A	1	1	1	1	1	AA	X	
	D218,219	10047557	ZENER DIODE	MTZJT-778.2B	2	2	2	2	2	AA	X	
	D213	10047558	ZENER DIODE	MTZJT-779.1C	1	1	1	1	1	AA	X	
	Q202,207, 208	10025042	TRANSISTOR	2SD1468STPR	3	3	3	3	3	AA	X	
	Q201	10209017	TRANSISTOR	KTA1267-GR-AT/P	1	1	1	1	1	AA	C	
	Q204,205, 206,209,210	10206673	TRANSISTOR	KTC3199-GR-AT/P	5	5	5	5	5	AA	C	

- 1 AP-500_DI_120V
- 2 AP-500_DI_230V
- 3 AP-500_EU
- 4 AP-500_UK
- 5 AP-500_CI

N	Item	Code No.	Parts Name	Specification	Q'TY					PRICE CODE	R	Remarks
					1	2	3	4	5			
MAIN CASE UNIT												
N	3	10164284	PCB ASSY/ACA1U	TK-RJM503880*001	1				1	BA	C	120V
	3	10164286	PCB ASSY/ACA1E	TK-RJM503882*001		1	1	1		AZ	C	230V
	4	10263885	PCB ASSY/JKA1	TK-RJM507612*001	1	1	1	1	1		B	
	D403	10201501	I.C	PC900V0NSZXF	1	1	1	1	1	AG	C	
	IC401	10206677	IC	NJM2068D-D	1	1	1	1	1	AH	C	
	IC402	10209159	I.C	SN74HCT04AN	1	1	1	1	1	AC	C	
	J403	10206815	CONNECTOR	JY-6314*01-030	1	1	1	1	1	AA	X	
	J401,404	10206816	CONNECTOR	JY-6314*01-130	2	2	2	2	2	AA	X	
	J402	36120665	JACK/PHONE	YKB21-5006	1	1	1	1	1	AG	C	
	L406,407	10231919	COIL	RB53-856396NP	2	2	2	2	2	AA	C	
	L401-405	10231920	COIL	RB53-856397NP	5	5	5	5	5	AA	X	
	D402	23153132	DIODE	1SS133T-77	1	1	1	1	1	AA	X	
	D401	10047557	DIODE	MTZJT-778.2B	1	1	1	1	1	AA	X	
	5	10164278	CORD ASSY/AC	TK-RJM503864*002	1				1	AM	C	120V
	5	10100792	CORD SET	INQ.1258(1)		1				AP	C	Korea
	5	10045706	CORD SET	EC2NC-M001A		1	1			AM	C	Korea/EU
	5	10045707	CORD SET	BC2NC-M001A				1		BD	C	UK
	5-1	10164279	INLET ASSY/AC	TK-RJM503865*001		1	1	1		AH	C	230V
N	6	10233377	TRANSFORMER	TE-437-1M1A	1				1	CO	C	120V
N	6	10233375	TRANSFORMER	TE-437-2M1A		1	1	1		CO	C	230V
	7	10227873	SPEAKER	C05JH58	2	2	2	2	2	AK	B	Small
N	8	10228215	SPEAKER	C16JA12	2	2	2	2	2	BE	B	Big
N	9	10262428	NET	RJM507410-001V01	2	2	2	2	2	AL	C	
N	10	10263891	CASE ASSY/MIDDLE	TK-RJM507209*001	1	1	1	1	1		C	
N	11	10196297	BRACKET	RJM505578-001V01	1	1	1	1	1	AX	X	
N	12	10262354	BOARD/FRONT	RJM507221-001V01	1	1	1	1	1	BO	X	
N	13	10263889	PCB ASSY/JKA5	TK-RJM507620*001	1	1	1	1	1		C	
N	14	10262400	BUTTON/POWER	M340318-003V01	1	1	1	1	1	AA	C	
N	15	10262403	KNOB/ROTARY	RJM502503-018V02	1	1	1	1	1	AA	C	
N	16	10262405	SIDE BLOCK/L	RJM507140-001V01	1	1	1	1	1	AH	C	
N	17	10263901	SW ASSY/PW	TK-RJM507696*001	1	1	1	1	1		B	
N	18	10263887	PCB ASSY/JKA3	TK-RJM507616*001	1	1	1	1	1		B	
N	19	10263886	PCB ASSY/JKA2	TK-RJM507614*001	1	1	1	1	1		B	
N	20	10262406	SIDE BLOCK/R	RJM507141-001V01	1	1	1	1	1		X	

- 1 AP-500_DI_120V
- 2 AP-500_DI_230V
- 3 AP-500_EU
- 4 AP-500_UK
- 5 AP-500_CI

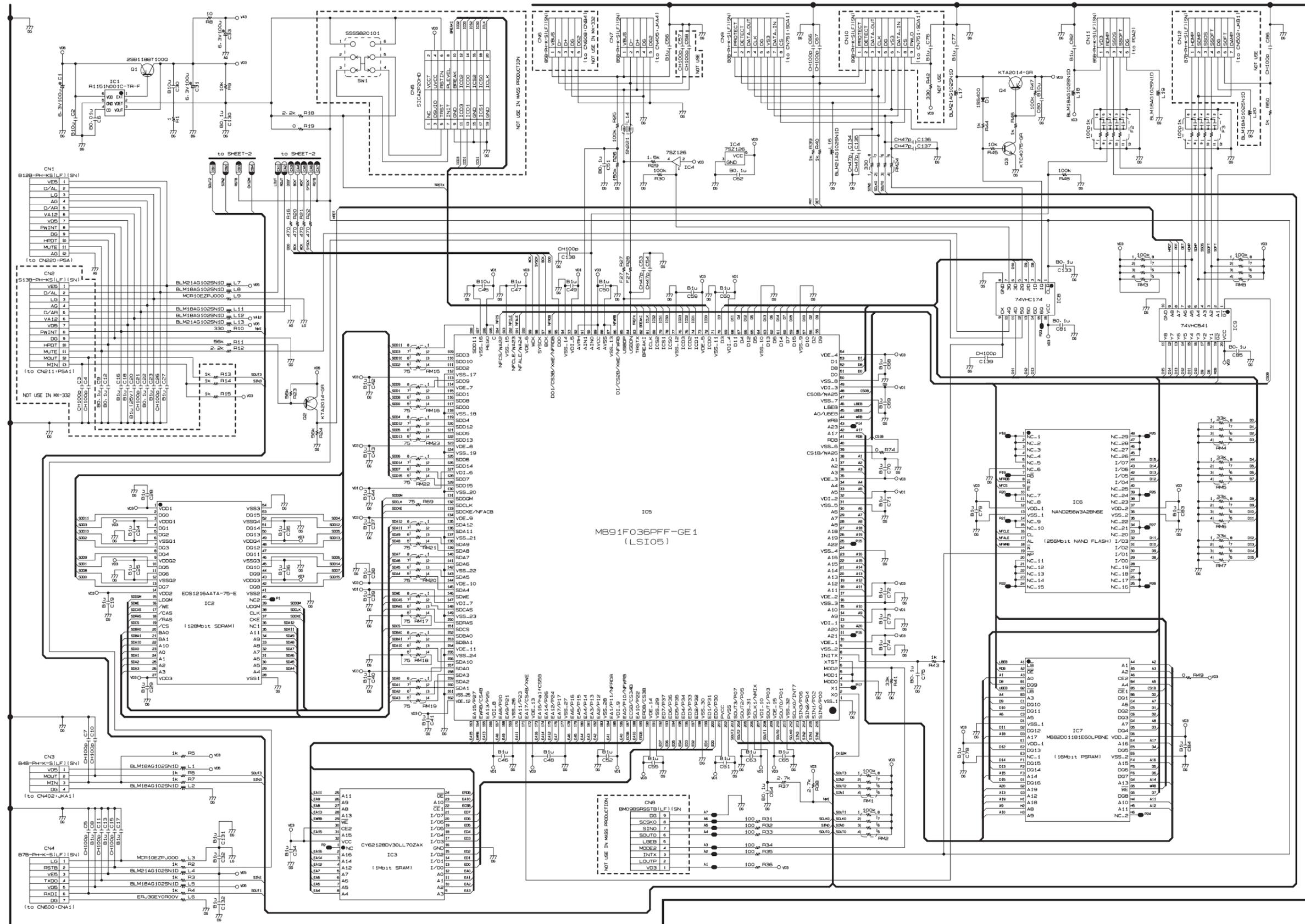
N	Item	Code No.	Parts Name	Specification	Q'TY					PRICE CODE	R	Remarks
					1	2	3	4	5			
CONSOLE UNIT												
N	21	10262347	PANEL/CONSOLE	RJM507125-001V01	1	1	1	1	1	CA	C	
N	22	10263890	BLOCK ASSY/SPEAKER	TK-RJM507216*001	2	2	2	2	2		C	
N	23	10262352	PLATE/DISPLAY	RJM507384-001V01	1	1	1	1	1	AA	C	
	24	69276600	KEY FELT	M440829-1	1	1	1	1	1	AL	C	
N	25	10256318	BRACKET/CONSOLE	RJM507194-001V01	6	6	6	6	6	AH	X	
N	26	10252615	BUTTON/TACT/A	RJM507142-001V01	5	5	5	5	5	AA	C	
N	27	10252616	BUTTON/TACT/A	RJM507142-002V01	2	2	2	2	2	AA	C	
N	28	10252617	BUTTON/TACT/A	RJM507142-003V01	2	2	2	2	2	AB	C	
N	29	10252618	BUTTON/TACT/B	RJM507143-001V01	1	1	1	1	1	AB	C	
N	30	10252619	BUTTON/TACT/B	RJM507143-002V01	1	1	1	1	1	AC	C	
N	31	10252620	BUTTON/TACT/B	RJM507143-003V01	3	3	3	3	3	AF	C	
N	32	10255459	HIMELON/A	RJM507428-001V01	1	1	1	1	1	AA	C	
N	33	10255456	HIMELON/B	RJM507429-001V01	1	1	1	1	1	AA	C	
N	34	10255457	HIMELON/C	RJM507430-001V01	1	1	1	1	1	AA	C	
N	35	10263893	PCB ASSY/CNA1	TK-RJM507606*001	1	1	1	1	1		C	
	D600	10133612	LED	LC5643-12-S6	1	1	1	1	1	AQ	X	
	IC600	10159709	LSI	UPD65881GK-1019ETA	1	1	1	1	1	AT	C	
	X600	10093909	CERAMIC OSCILLATOR	CSBLA1M00J58-B0	1	1	1	1	1	AC	X	
	D601-615	10171339	LED	LT5J14-43-S24	15	15	15	15	15	AA	X	
	Q618-620	10211754	TRANSISTOR	2SC5720(TPE4.F)	3	3	3	3	3	AA	X	
	Q600-617	10234780	TRANSISTOR	KRA105M-AT/P	17	17	17	17	17	AA	X	
	SW600-614	10245364	TACT SWITCH	THVV501BAA	15	15	15	15	15	AA	C	
N	36	10263899	PCB ASSY/CNB1	TK-RJM507608*001	1	1	1	1	1		C	
N	D616-624	10174201	LED	LT2P71-81-M1-S07	9	9	9	9	9	AN	X	
	SW615-624	10245364	SWITCH/TACT	THVV501BAA	10	10	10	10	10	AA	C	
N	37	10263900	PCB ASSY/CNB2	TK-RJM507610*001	1	1	1	1	1		C	
N	D625-629	10174201	LED	LT2P71-81-M1-S07	5	5	5	5	5	AN	X	
	SW625-629	10245364	SWITCH/TACT	THVV501BAA	5	5	5	5	5	AA	C	
N	38	10263892	PCB ASSY/SDA1	TK-RJM507622*001	1	1	1	1	1		C	
N	39	10263888	PCB ASSY/JKA4	TK-RJM507618*001	1	1	1	1	1		C	
N	40	10263902	BOARD ASSY/TOP/M	TK-RJM507232*001	1	1	1	1	1		C	
N	41	10263903	BOARD ASSY/TOP/C	TK-RJM507217*001	1	1	1	1	1		C	
N	42	10263894	BOARD ASSY/TOP/S	TK-RJM507218*001	2	2	2	2	2		C	
N	43	10263895	COVER ASSY/KEY	TK-RJM507208*001	1	1	1	1	1		C	

- 1 AP-500_DI_120V
- 2 AP-500_DI_230V
- 3 AP-500_EU
- 4 AP-500_UK
- 5 AP-500_CI

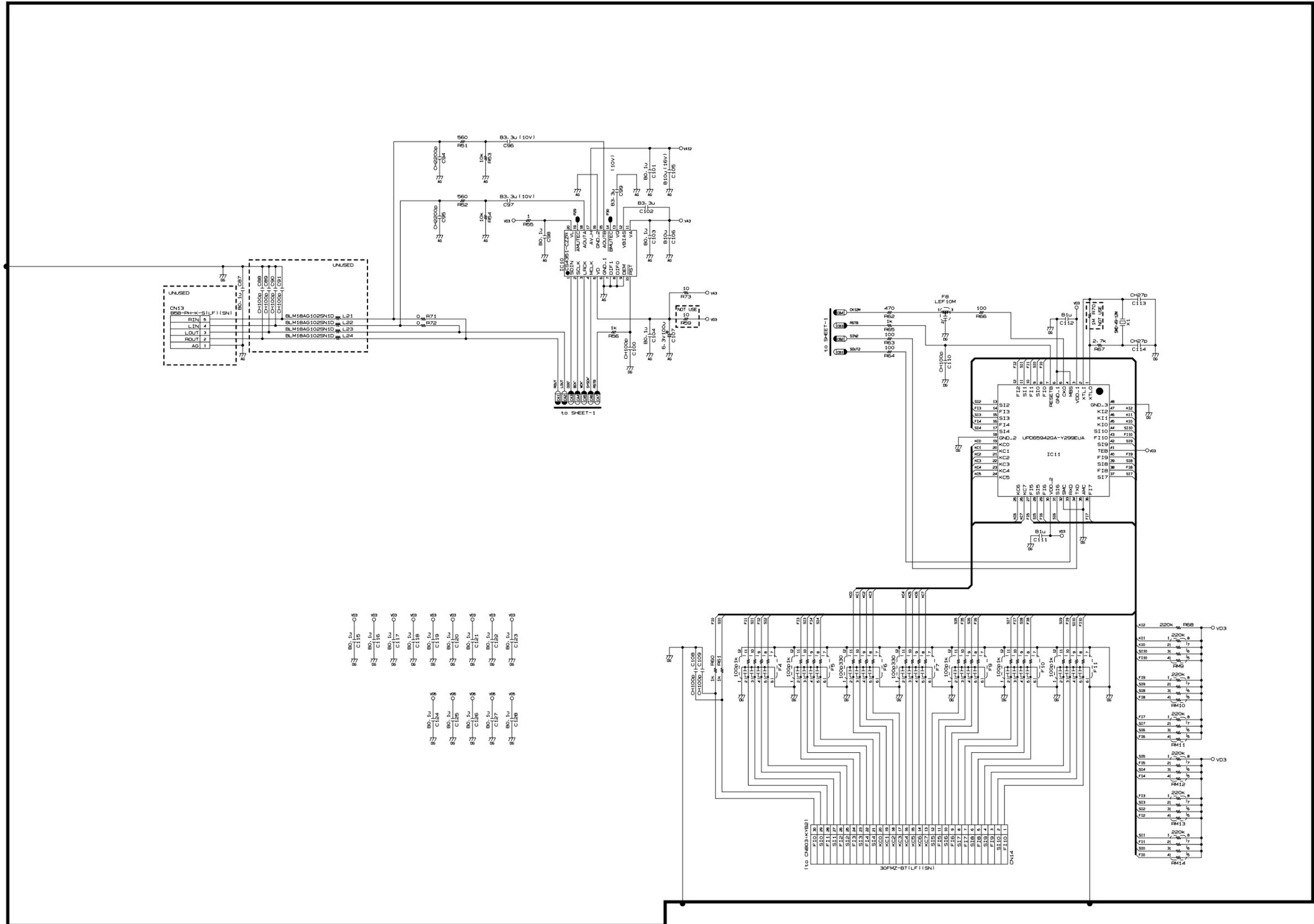
N	Item	Code No.	Parts Name	Specification	Q'TY					PRICE CODE	R	Remarks
					1	2	3	4	5			
KEYBOARD UNIT												
	44	10213920	KEY UNIT	TK-RJM506362*001	1	1	1	1	1	EC	B	
	45	10204304	CHASSIS/KEY	RJM505515-001V01	1	1	1	1	1	BX	C	
	46	10135317	BLACK KEY	RJM502797-001V01	36	36	36	36	36	AC	C	
	47	10135426	WHITE KEY/CEGB	RJM502862-001V01	7	7	7	7	7	AT	C	
	48	10135427	WHITE KEY/DFA	RJM502863-001V01	7	7	7	7	7	AQ	C	
	49	10135428	WHITE KEY/B	RJM502794-001V01	1	1	1	1	1	AG	C	
	50	10135429	WHITE KEY/SA	RJM502795-001V01	1	1	1	1	1	AJ	C	
	51	10135430	WHITE KEY/SC	RJM502796-001V01	1	1	1	1	1	AJ	C	
	52	10208265	HAMMER ASSY1/W1	TK-RJM506035*001	13	13	13	13	13	AF	C	
	53	10208266	HAMMER ASSY1/W2	TK-RJM506036*001	13	13	13	13	13	AF	C	
	54	10208267	HAMMER ASSY1/W3	TK-RJM506037*001	13	13	13	13	13	AF	C	
	55	10208269	HAMMER ASSY1/W4	TK-RJM506038*001	13	13	13	13	13	AF	C	
	56	10208275	HAMMER ASSY1/B1	TK-RJM506039*001	9	9	9	9	9	AE	C	
	57	10208281	HAMMER ASSY1/B2	TK-RJM506040*001	9	9	9	9	9	AE	C	
	58	10208286	HAMMER ASSY1/B3	TK-RJM506041*001	9	9	9	9	9	AE	C	
	59	10208290	HAMMER ASSY1/B4	TK-RJM506042*001	9	9	9	9	9	AE	C	
	60	37195442	CABLE	N30315B1B05-UL2896	1	1	1	1	1	AO	C	
	61	10133656	RUBBER/CONATCT/AG	RJM502920-001V01	7	7	7	7	7	AK	C	
	62	10133635	RUBBER/CONATCT/GC	RJM502921-001V01	1	1	1	1	1	AG	C	
	63	10208264	PCB ASSY/KEY	TK-RJM506061*001	1	1	1	1	1	CI	C	
	D801-854, 923-976	10079928	DIODE	1SS133TA	108	108	108	108	108	AA	C	
	D855-922	10079928	DIODE	1SS133TA	68	68	68	68	68	AA	C	
	CN803	10211732	CONNECTOR	30FMZ-ST(LF)(SN)	1	1	1	1	1	AG	C	
STAND												
N	64	10263896	SCREW SET	TK-RJM507582*001	1	1	1	1	1		C	
N	65	10263897	BOARD ASSY/STAND/LEFT	TK-RJM507374*001	1	1	1	1	1		C	
N	66	10263898	BOARD ASSY/STAND/RIGHT	TK-RJM507375*001	1	1	1	1	1		C	
N	67	10262429	BOARD/STAND/BACK	RJM507250-001V01	1	1	1	1	1	CK	C	
N	68	10263904	BOARD ASSY/PEDAL	TK-RJM507376*001	1	1	1	1	1		C	
N	69	10263905	BOARD ASSY	TK-RJM507661*001	1	1	1	1	1		C	
N	70	10263906	PEDAL ASSY	TK-RJM507377*001	1	1	1	1	1		C	
N	71	10212698	HARNESS	SMR-5P-155-MP5	1	1	1	1	1	AM	B	
N	72	10260690	ADJUSTER	FL-20-CR3-KE	1	1	1	1	1	AF	X	
ACCESSORIES												
N	-	10256364	CD ROM	USB12CDROMWL1E	1	1	1	1	1	AG	C	
N	-	10255460	MUSIC BOOK	05PHCOSCOWL1A	1	1	1	1	1	AX	X	

SCHEMATIC DIAGRAMS

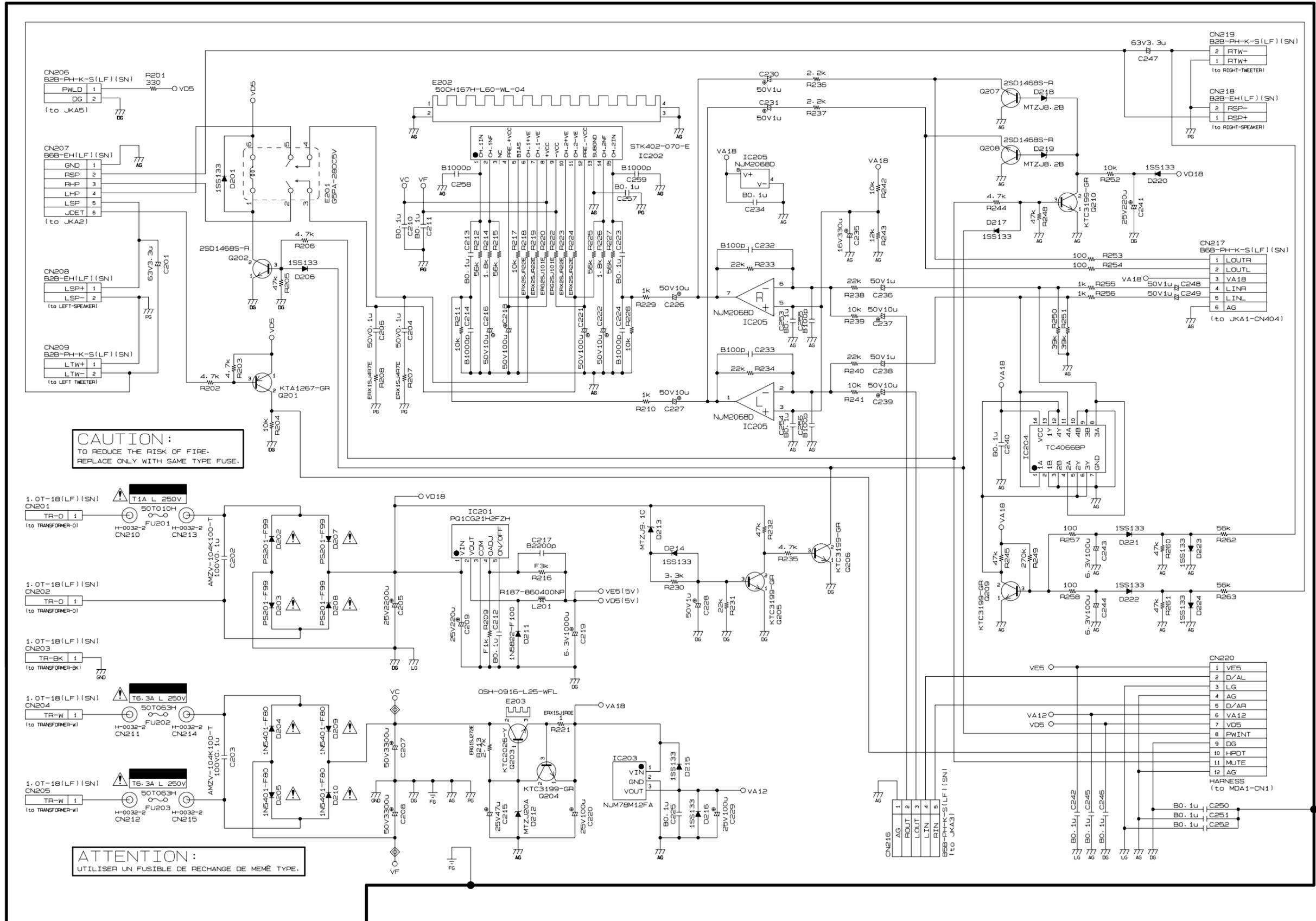
Main PCB M408-MDA1 (1/2)



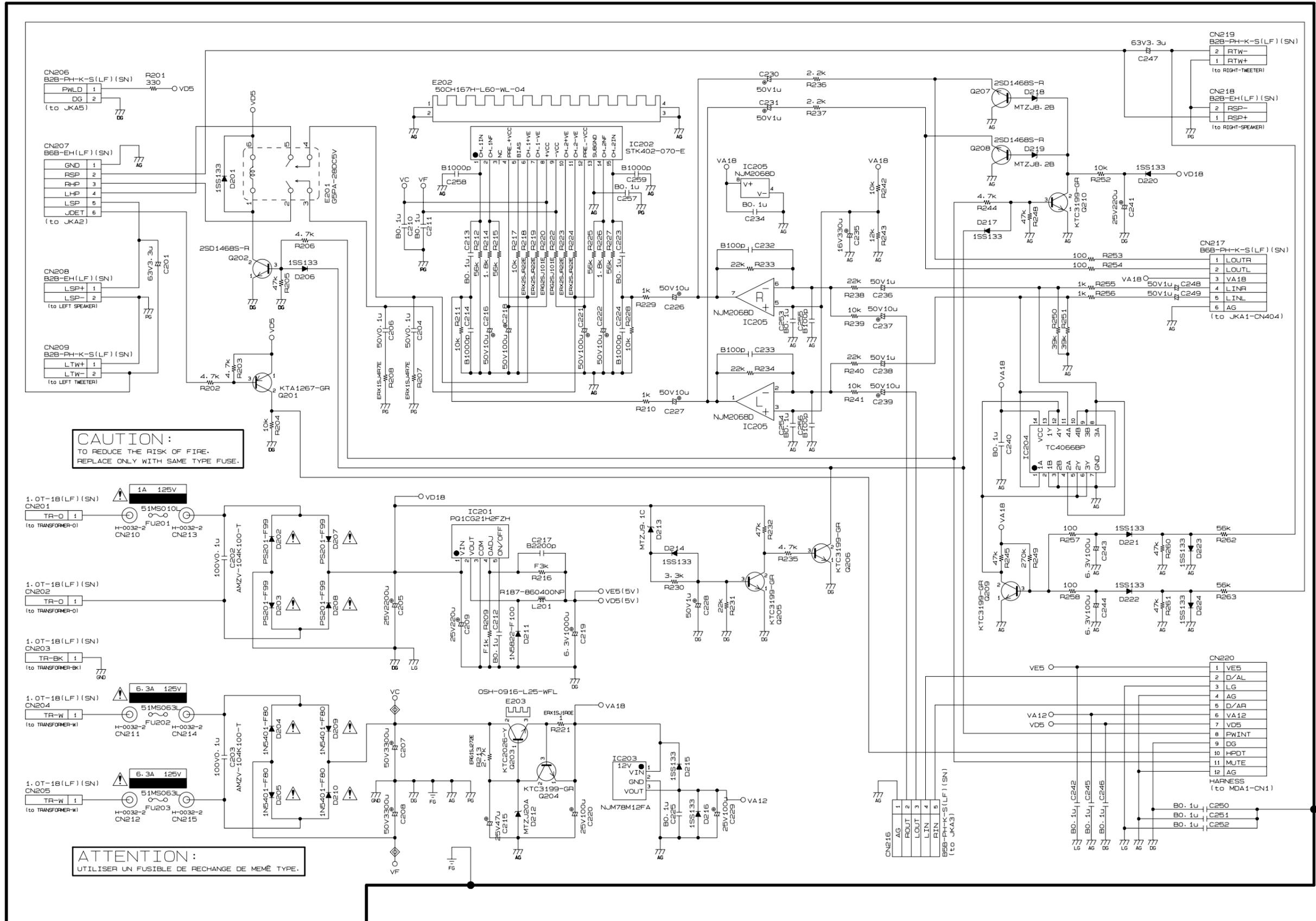
Main PCB M332-MDA1 (2/2)



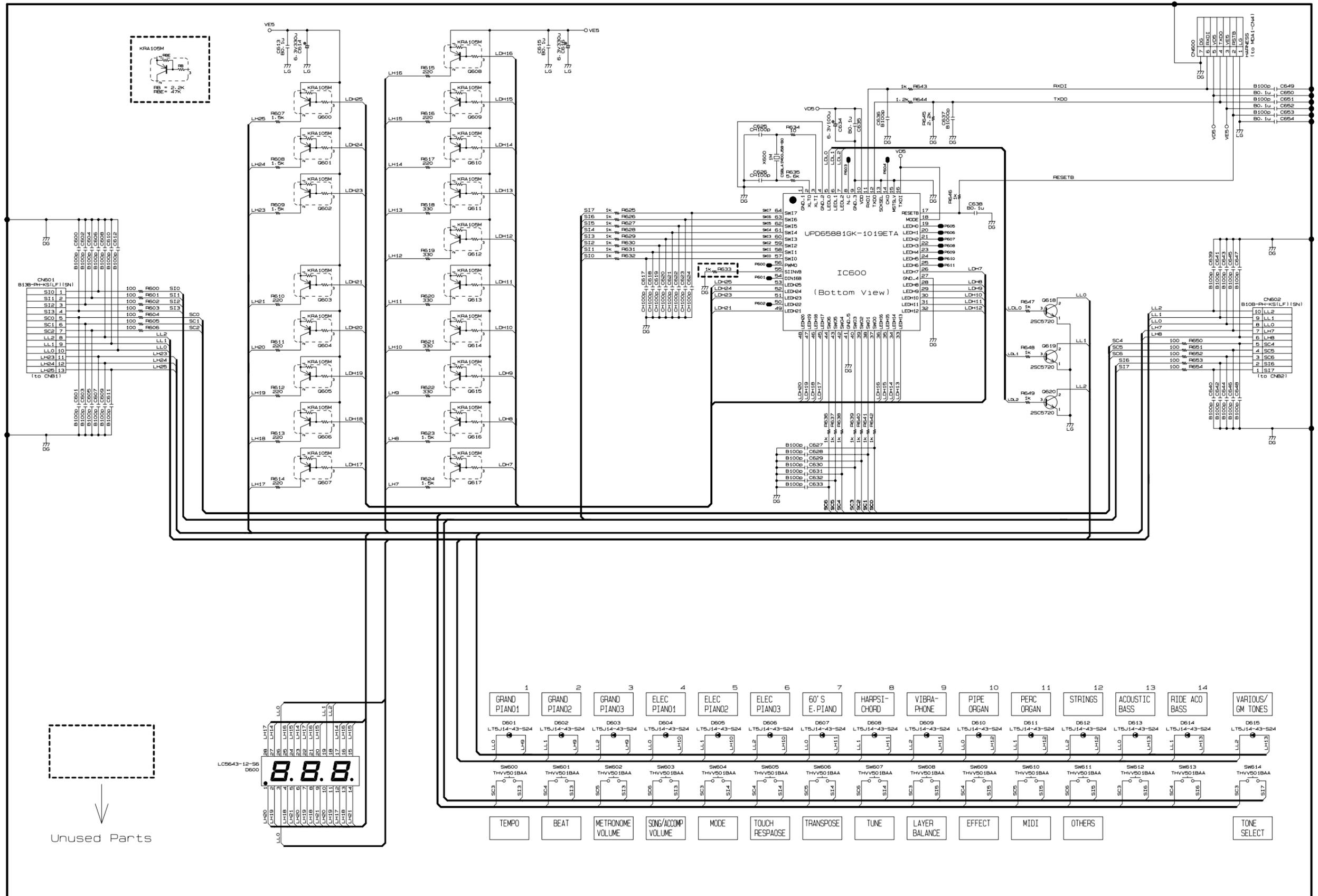
Sub PCB M332-PSA1-E (AC 230V)



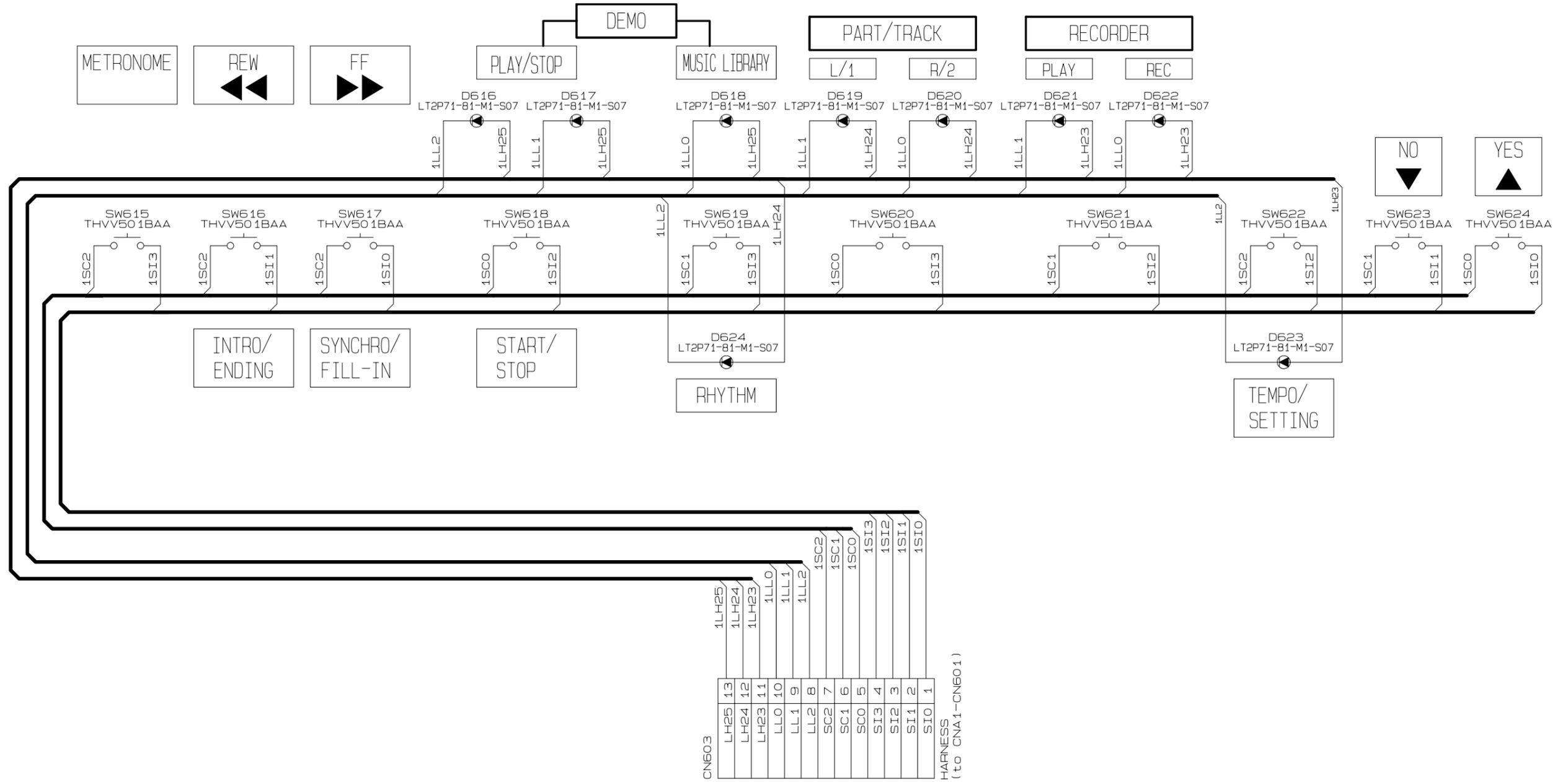
Sub PCB M332-PSA1-J (AC 100V & AC 120V)



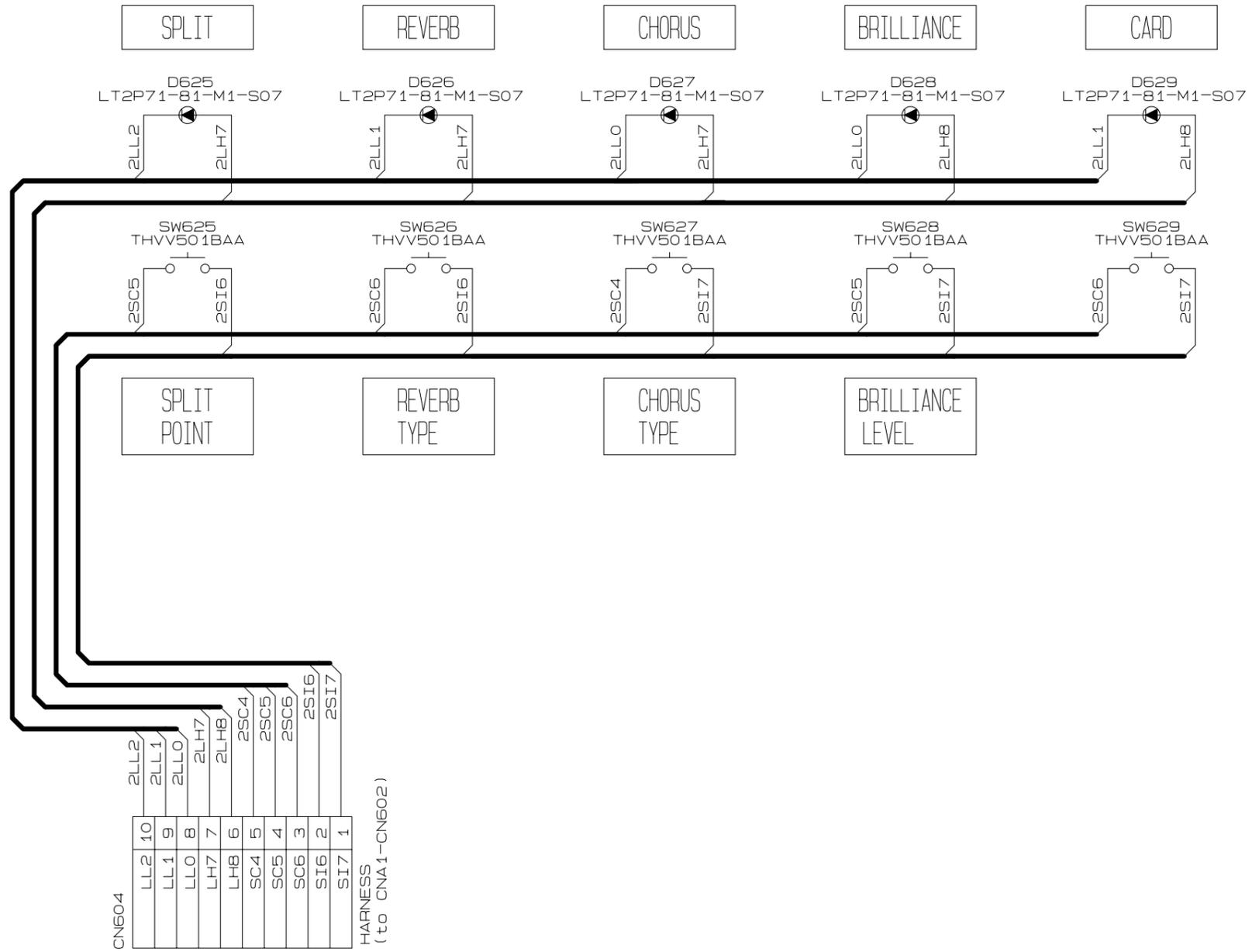
Console PCB M332-CNA1



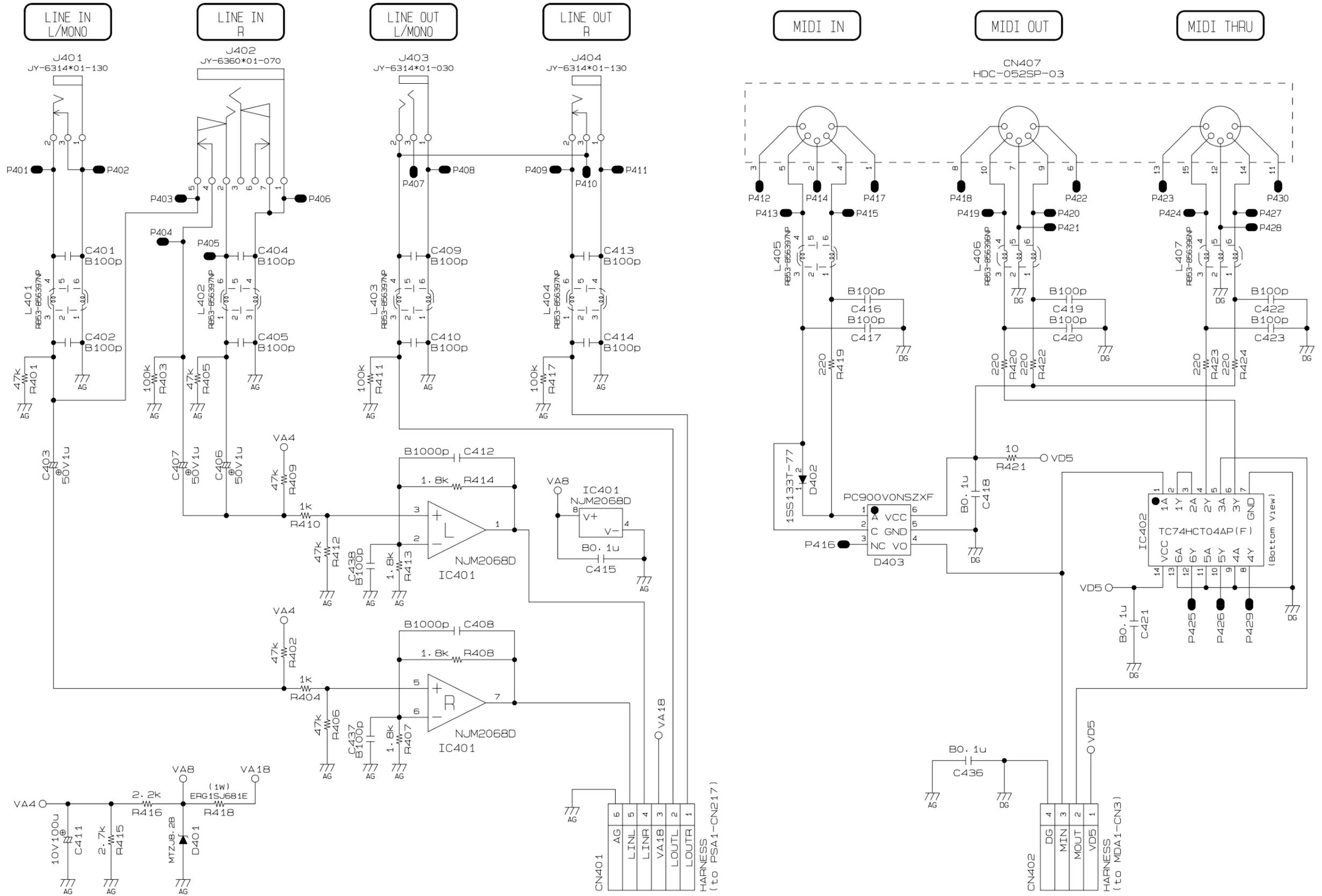
Console PCB M332-CNB1



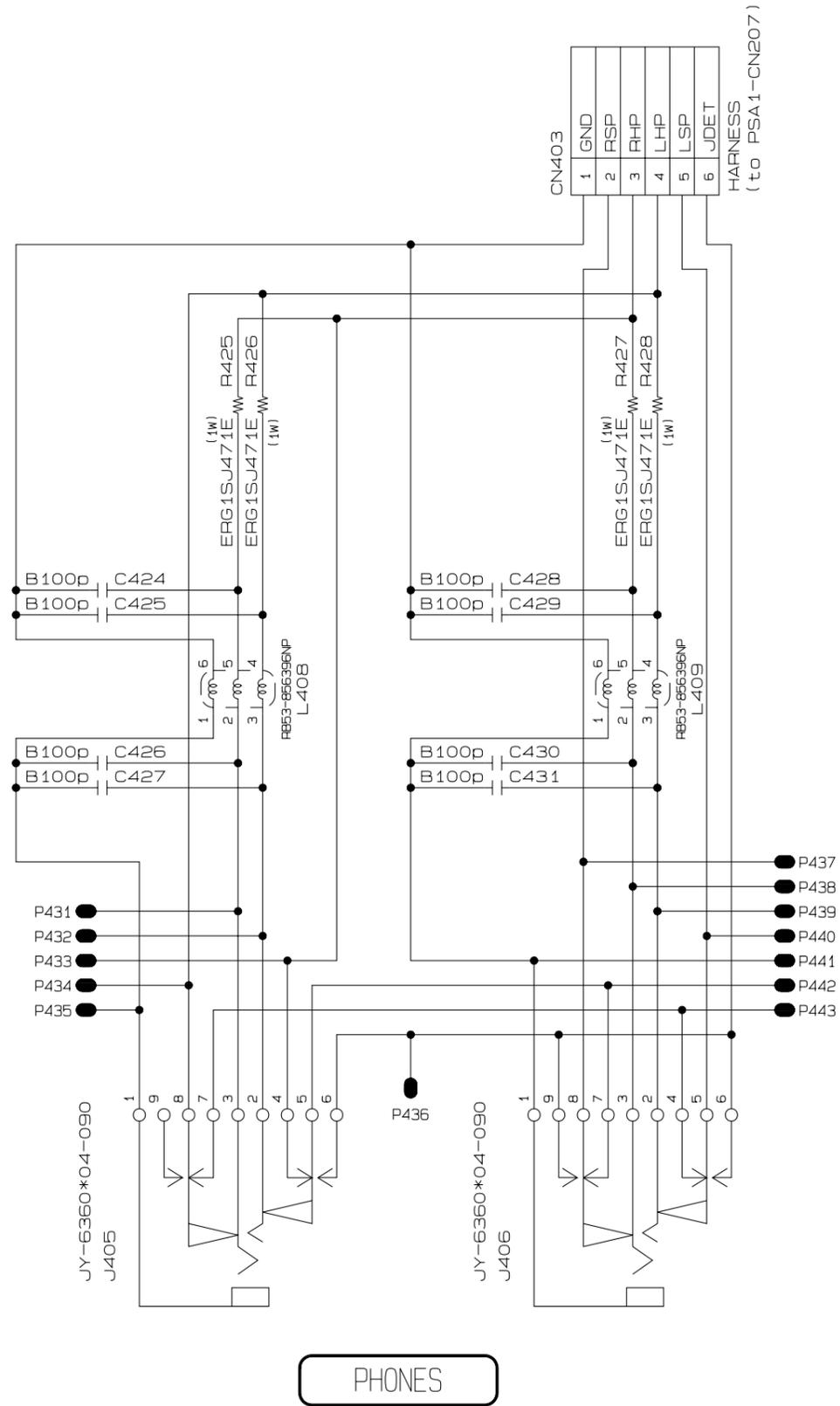
Console PCB M332-CNB2



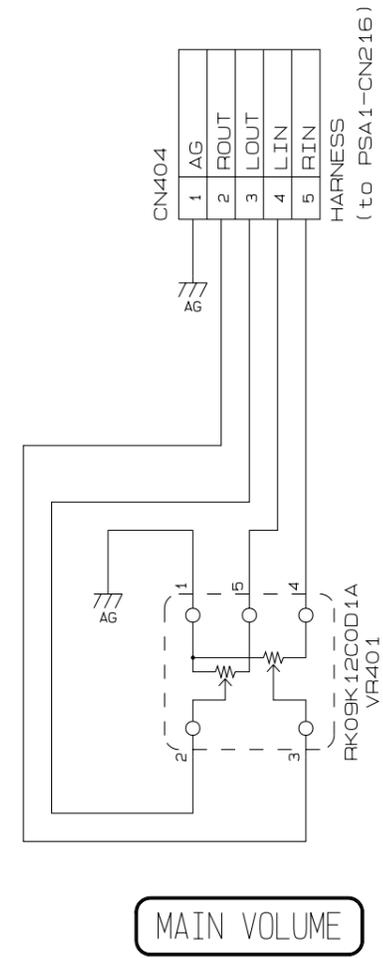
JACK PCB M332-JKA1



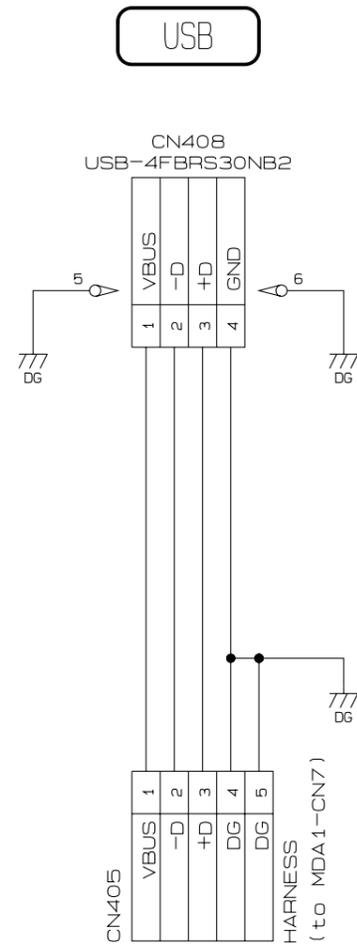
JACK PCB M332-JKA2



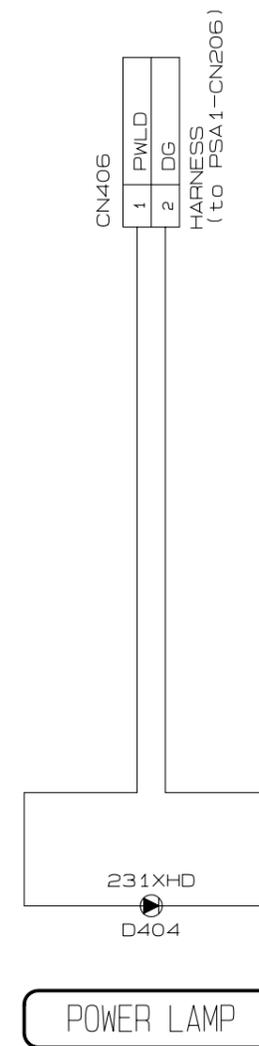
JACK PCB M332-JKA3



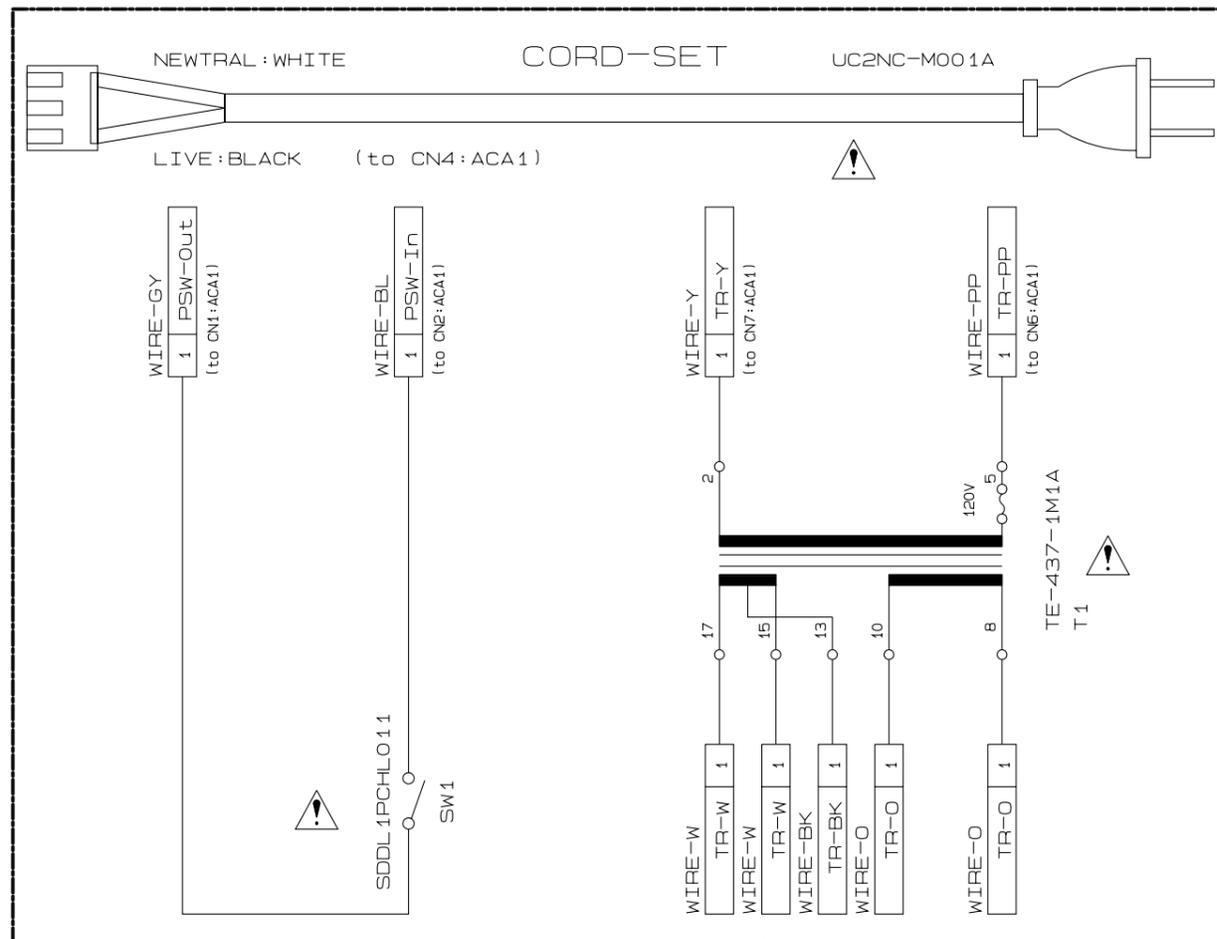
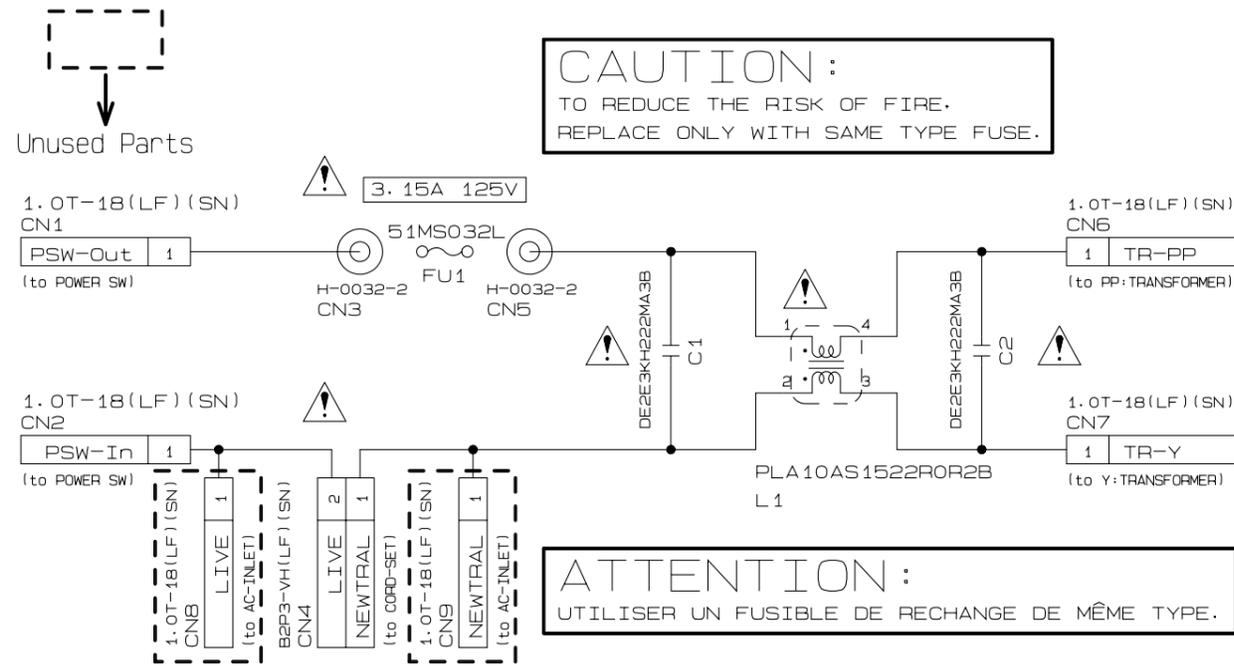
JACK PCB M409-JKA4



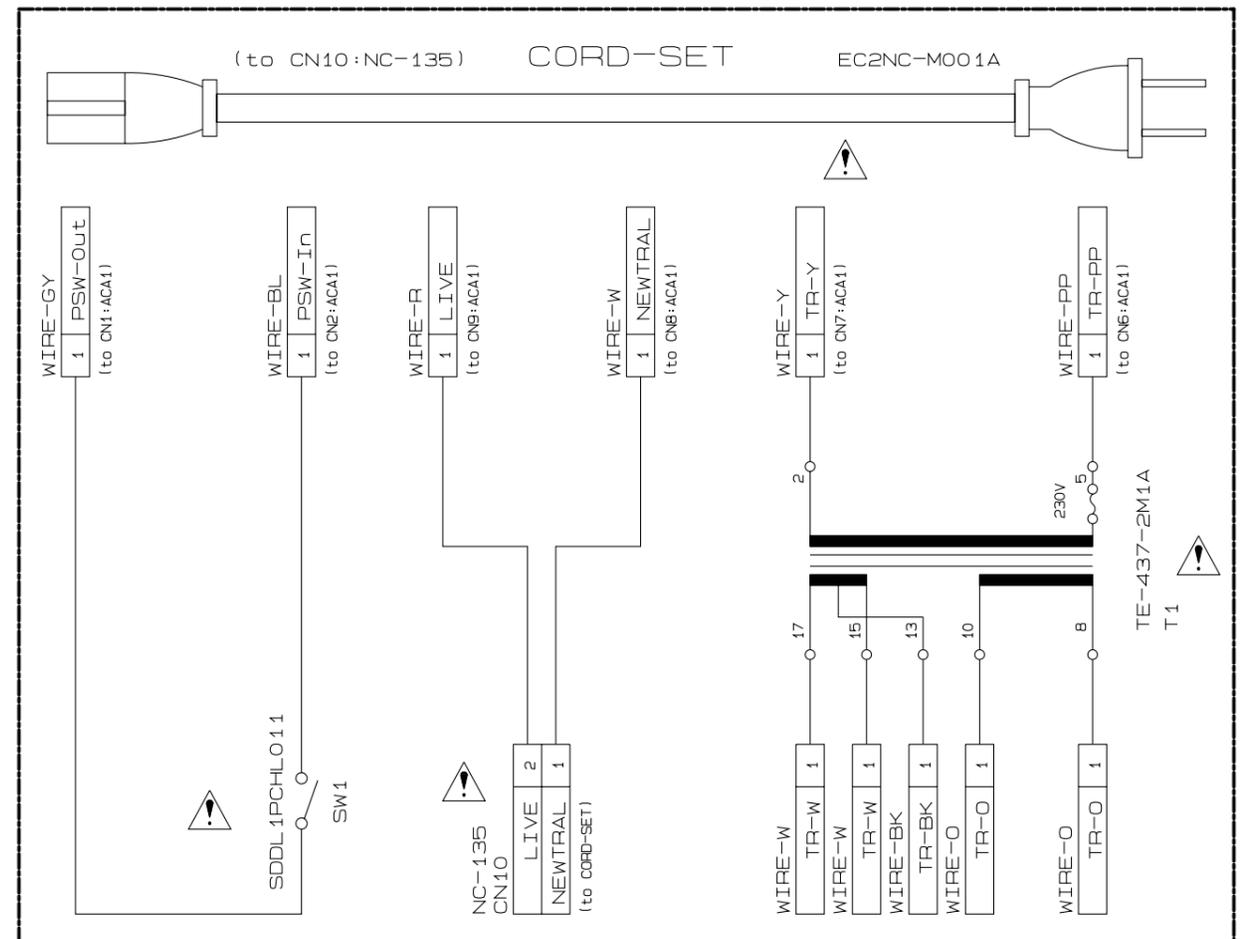
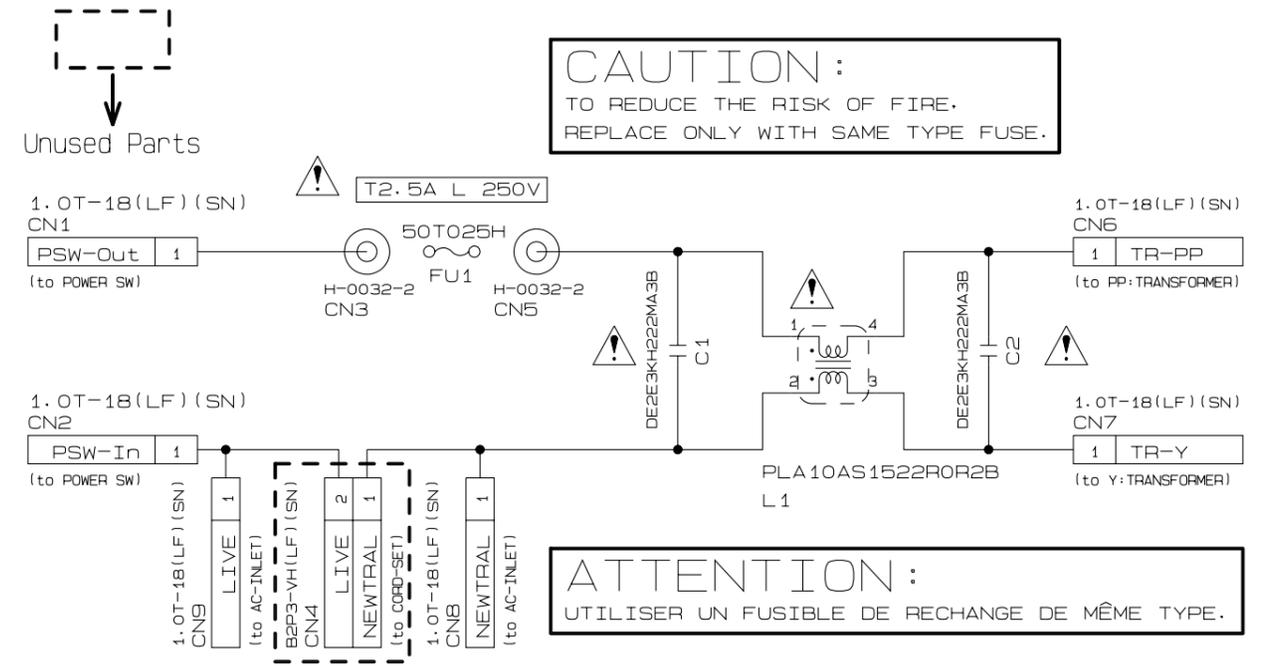
JACK PCB M409-JKA5



Power supply PCB M420-ACA1 (120V)



Power supply PCB M420-ACA1 (230V)



CASIO COMPUTER CO.,LTD.
Overseas Service Division

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