

DIGITAL WORKSTATION

PSR-S770

PSR-S970

SERVICE MANUAL



PSR-S770



PSR-S970

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IMPORTANT NOTICE

This manual has been provided for the use of authorized Yamaha Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically Yamaha Products, are already known and understood by the users, and have therefore not been restated.

WARNING : Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all Yamaha product owners that all service required should be performed by an authorized Yamaha Retailer or the appointed service representative.

IMPORTANT : This presentation or sale of this manual to any individual or firm does not constitute authorization certification, recognition of any applicable technical capabilities, or establish a principal-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research engineering, and service departments of Yamaha are continually striving to improve Yamaha products. Modifications are, therefore, inevitable and changes in specification are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING : Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground bus in the unit (heavy gauge black wires connect to this bus.)

IMPORTANT : Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

WARNING: This product contains chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm. **DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHAT SO EVER!** Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor! If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.

IMPORTANT NOTICE FOR THE UNITED KINGDOM Connecting the Plug and Cord

IMPORTANT. The wires in this mains lead are coloured in accordance with the following code:

- BLUE : NEUTRAL
- BROWN : LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:


The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

Making sure that neither core is connected to the earth terminal of the three pin plug.

(2 wires)

■ WARNING

Components having special characteristics are marked  and must be replaced with parts having specification equal to those originally installed.

■ SAVING DATA



Be sure to perform it

- The edited Songs/Styles/Voices/Multi Pads and MIDI settings are lost when you turn off the power to the instrument. This also occurs when the power is turned off by the Auto Power Off function. Save the edited data to the instrument, or to a USB flash drive. However, the data saved to the instrument may be lost due to some failure, an operation mistake, etc. Save your important data onto a USB flash drive.
- To protect against data loss through USB flash drive damage, we recommend that you save your important data onto spare USB flash drive or an external device such as a computer as backup data.

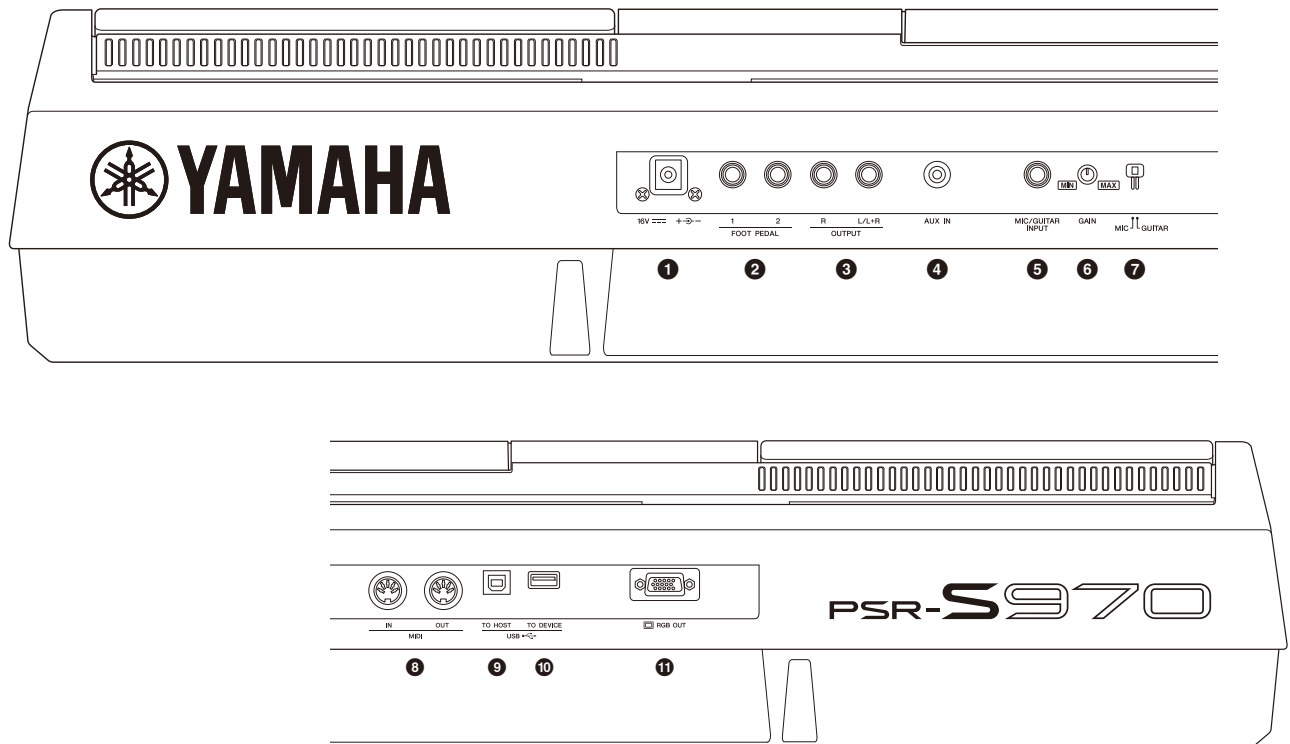
■ SPECIFICATIONS

			PSR-S970	PSR-S770
Product name			Digital Keyboard	Digital Keyboard
Size/Weight	Dimensions (W x D x H)		1,002 mm x 437 mm x 148 mm (39-7/16" x 17-3/16" x 5-13/16")	1,002 mm x 437 mm x 148 mm (39-7/16" x 17-3/16" x 5-13/16")
	Weight		11.6 kg (25 lbs., 9 oz.)	11.1 kg (24 lbs., 8 oz.)
Control Interface	Keyboard	Number of Keys	61	61
		Type	Organ	Organ
		Touch Response	Hard 2, Hard 1, Medium, Soft 1, Soft 2	Hard 2, Hard 1, Medium, Soft 1, Soft 2
	Other Controllers	Pitch Bend Wheel	Yes	Yes
		Modulation Wheel	Yes	Yes
		Knobs	2 (Assignable)	2 (Assignable)
	Display	Type	TFT Color Wide VGA LCD	TFT Color Wide VGA LCD
		Size	7 inch	7 inch
		Language	English, German, French, Spanish, Italian	English, German, French, Spanish, Italian
	Panel	Language	English	English
Voices	Tone Generation	Tone Generation Technology	AWM Stereo Sampling	AWM Stereo Sampling
	Polyphony	Number of Polyphony (max.)	128	128
	Preset	Number of Voices	989 Voices + 41 Drum/SFX Kits + 480 XG Voices	830 Voices + 36 Drum/SFX Kits + 480 XG Voices
		Featured Voices	131 S.Art!, 30 MegaVoices, 31 Sweet!, 74 Cool!, 89 Live!, 30 Organ Flutes!	67 S.Art!, 23 MegaVoices, 27 Sweet!, 64 Cool!, 71 Live!, 20 Organ Flutes!
	Compatibility		XG, GS (for Song playback), GM, GM2	XG, GS (for Song playback), GM, GM2
	Part		Right 1, Right 2, Left	Right 1, Right 2, Left
Effects	Reverb Block		52 Preset + 3 User	52 Preset + 3 User
	Chorus Block		106 Preset + 3 User	106 Preset + 3 User
	DSP Block		322 Preset (with VCM) + 10 User	295 Preset + 10 User
	Master Compressor		5 Preset + 2 User	5 Preset + 2 User
	Master EQ		5 Preset + 2 User	5 Preset + 2 User
	Part EQ		27 Parts	27 Parts
	Mic/Guitar Effects		Noise Gate, Compressor, 3Band EQ	Noise Gate, Compressor, 3Band EQ
	Vocal Harmony	Number of Presets	Vocal Harmony: 44 Synth Vocoder: 10	-
		Number of User Settings	60 * The number is the total of Vocal Harmony and Synth Vocoder	-
		Vocal Effect	23	-
Styles	Preset	Number of Styles	450	360
		Featured Styles	40 +Audio, 366 Pro, 31 Session, 10 DJ, 3 Free Play	322 Pro, 27 Session, 10 DJ, 1 Free Play
		Fingering	Single Finger, Fingered, Fingered On Bass, Multi Finger, All Fingered, Full Keyboard, All Full Keyboard	Single Finger, Fingered, Fingered On Bass, Multi Finger, All Fingered, Full Keyboard, All Full Keyboard
		Style Control	INTRO x 3, MAIN VARIATION x 4, FILL x 4, BREAK, ENDING x 3	INTRO x 3, MAIN VARIATION x 4, FILL x 4, BREAK, ENDING x 3
	Other Features	Music Finder (Max.)	2,500	1,200
		One Touch Setting (OTS)	4 for each Style	4 for each Style
Compatibility		Style File Format (SFF), Style File Format GE (SFF GE)	Style File Format (SFF), Style File Format GE (SFF GE)	
Songs (MIDI)	Preset	Number of Preset Songs	5 preset sample Songs	5 preset sample Songs
	Recording	Number of Tracks	16	16
		Data Capacity	approx. 300 KB/Song	approx. 300 KB/Song
		Recording Function	Quick Recording, Multi Track Recording, Step Recording	Quick Recording, Multi Track Recording, Step Recording
	Data Format	Playback	SMF (Format 0 & 1), XF	SMF (Format 0 & 1), XF
	Recording	SMF (Format 0)	SMF (Format 0)	
Multi Pads	Preset	Number of Multi Pad Banks	188 banks x 4 Pads	188 banks x 4 Pads
	Audio	Audio Link	Yes	Yes
Functions	Voices	Harmony	Yes	Yes
		Arpeggio	Yes	Yes
		Panel Sustain	Yes	Yes
		Mono/Poly	Yes	Yes
		Voice Information	Yes	Yes
	Styles	Style Creator	Yes	Yes
		Style Recommender	Yes	Yes
		OTS Information	Yes	Yes

			PSR-S970	PSR-S770	
Functions	Songs	Song Creator	Yes	Yes	
		Score Display Function	Yes	Yes	
		Lyrics Display Function	Yes	Yes	
		Text Display Function	Yes	Yes	
		Wallpaper Customization	Yes	Yes	
		Guide	Follow Lights, Any Key, Karao-Key, Your Tempo	Follow Lights, Any Key, Karao-Key, Your Tempo	
	Multi Pads	Multi Pad Creator	Yes	Yes	
		Registration Memory	Number of Buttons	8	8
	USB Audio Player/Recorder	Playback Format	Control	Registration Sequence, Freeze	Registration Sequence, Freeze
			Recording Format	.wav (WAV format: 44.1 kHz sample rate, 16 bit resolution, stereo) .mp3 (MPEG-1 Audio Layer-3: 44.1/48.0 kHz sample rate, 64-320 kbps and variable bit rate, mono/stereo)	.wav (WAV format: 44.1 kHz sample rate, 16 bit resolution, stereo) .mp3 (MPEG-1 Audio Layer-3: 44.1/48.0 kHz sample rate, 64-320 kbps and variable bit rate, mono/stereo)
		Recording Time (max.)	80 minutes/Song	80 minutes/Song	
		Time Stretch	Yes	Yes	
		Pitch Shift	Yes	Yes	
		Vocal Cancel	Yes	Yes	
		Demonstration	Yes	Yes	
		Overall Controls	Metronome	Yes	Yes
	Tempo		5 - 500	5 - 500	
	Transpose		-12 - 0 - +12	-12 - 0 - +12	
	Tuning		414.8 - 440.0 - 466.8 Hz	414.8 - 440.0 - 466.8 Hz	
	Octave Button		Yes	Yes	
Miscellaneous	Scale Type	9 types	9 types		
Expandability (Expansion Packs)	Direct Access		Yes	Yes	
	Expansion Voice		Yes (approx. 512 MB max.)	Yes (approx. 160 MB max.)	
	Expansion Style		Yes (internal memory)	Yes (internal memory)	
Storage and Connectivity	Expansion Audio Style		Yes (approx. 128 MB max.)	-	
	Storage	Internal Memory	Yes (approx. 13 MB max.)	Yes (approx. 13 MB max.)	
		External Drives	USB flash drive	USB flash drive	
	Connectivity	DC IN	16 V	16 V	
		Headphones	Standard stereo phone jack	Standard stereo phone jack	
		Microphone/Guitar	Yes	Yes	
		MIDI	IN, OUT	IN, OUT	
		AUX IN	Stereo mini jack	Stereo mini jack	
		OUTPUT	L/L+R, R	L/L+R, R	
		RGB OUT	Yes	-	
FOOT PEDAL		1 (SUSTAIN), 2 (ARTICULATION 1), Function assignable	1 (SUSTAIN), 2 (ARTICULATION 1), Function assignable		
USB TO DEVICE	Yes	Yes			
USB TO HOST	Yes	Yes			
Amplifiers/ Speakers	Amplifiers		15 W x 2	15 W x 2	
	Speakers		13 cm x 2 + 2.5 cm (dome) x 2	13 cm x 2 + 5 cm x 2	
Power Supply	Power Supply	Adaptor	PA-300C or an equivalent recommended by Yamaha	PA-300C or an equivalent recommended by Yamaha	
	Power Consumption		20 W	19 W	
	Auto Power Off		Yes	Yes	
Included Accessories			<ul style="list-style-type: none"> • Owner's Manual • Online Member Product Registration • Music rest • AC power adaptor* (PA-300C or an equivalent recommended by Yamaha), power cord* <small>* May not be included depending on your area.</small>	<ul style="list-style-type: none"> • Owner's Manual • Online Member Product Registration • Music rest • AC power adaptor* (PA-300C or an equivalent recommended by Yamaha), power cord* <small>* May not be included depending on your area.</small>	
Separately Sold Accessories (May not be available depending on your area.)			<ul style="list-style-type: none"> • AC adaptor: PA-300C or an equivalent recommended by Yamaha • Headphones: HPE-160/170 • Footswitches: FC4/FC4A/FC5 • Foot controller: FC7 • USB MIDI Interface for iPhone/iPod touch/iPad: i-UX1 • MIDI Interface for iPhone/iPod touch/iPad: i-MX1 • USB wireless LAN adaptor: UD-WL01 • USB-MIDI Interface: UX16 • Keyboard stand: L-6/L-7 <small>(The exterior size of the PSR-S970/S770 is beyond the limits as described in the L-6 Assembly Instructions. However, we have determined through tests that the stand can be safely used for the instrument.)</small>	<ul style="list-style-type: none"> • AC adaptor: PA-300C or an equivalent recommended by Yamaha • Headphones: HPE-160/170 • Footswitches: FC4/FC4A/FC5 • Foot controller: FC7 • USB MIDI Interface for iPhone/iPod touch/iPad: i-UX1 • MIDI Interface for iPhone/iPod touch/iPad: i-MX1 • USB wireless LAN adaptor: UD-WL01 • USB-MIDI Interface: UX16 • Keyboard stand: L-6/L-7 <small>(The exterior size of the PSR-S970/S770 is beyond the limits as described in the L-6 Assembly Instructions. However, we have determined through tests that the stand can be safely used for the instrument.)</small>	

■ PANEL LAYOUT

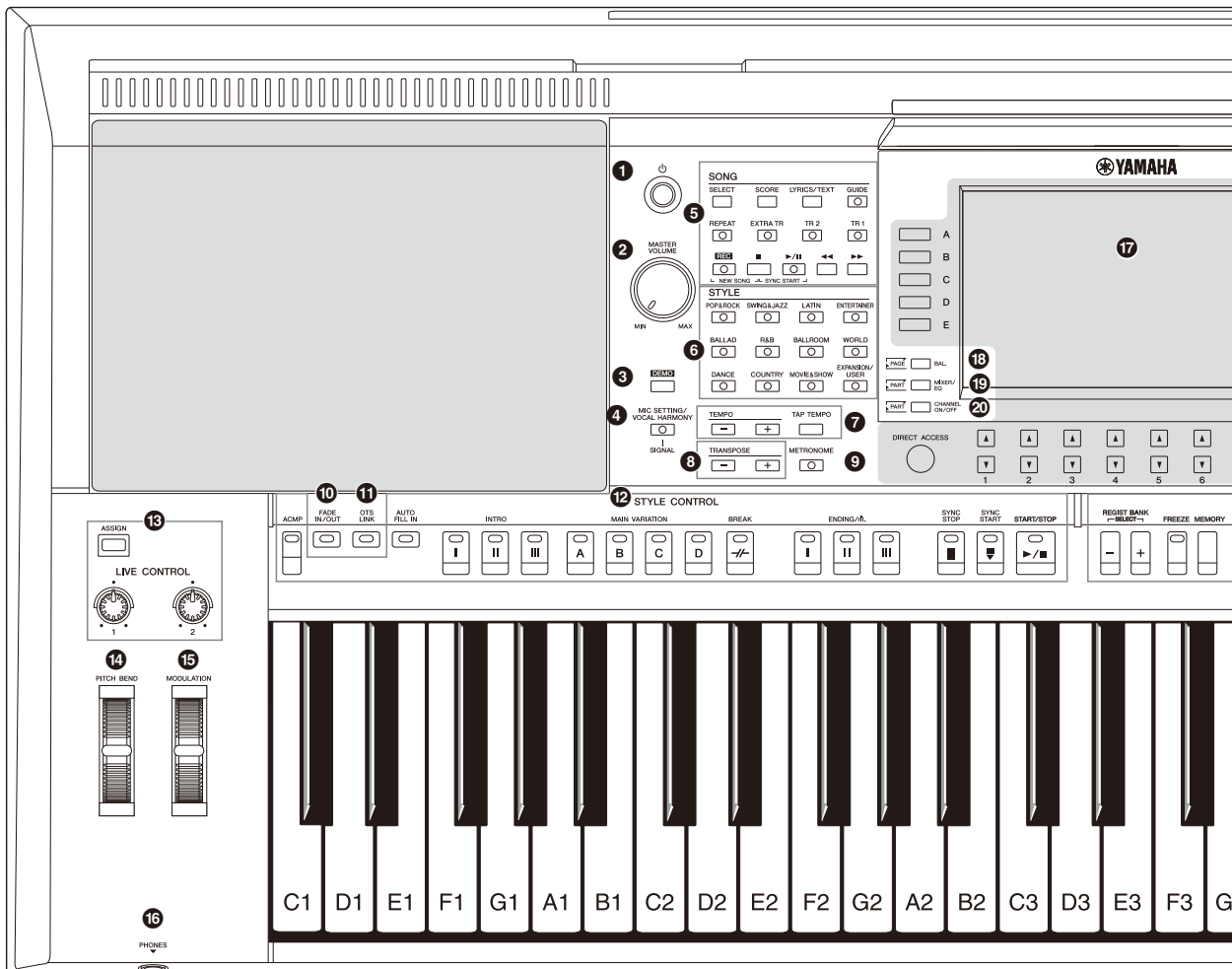
• Rear Panel



■ Rear Panel

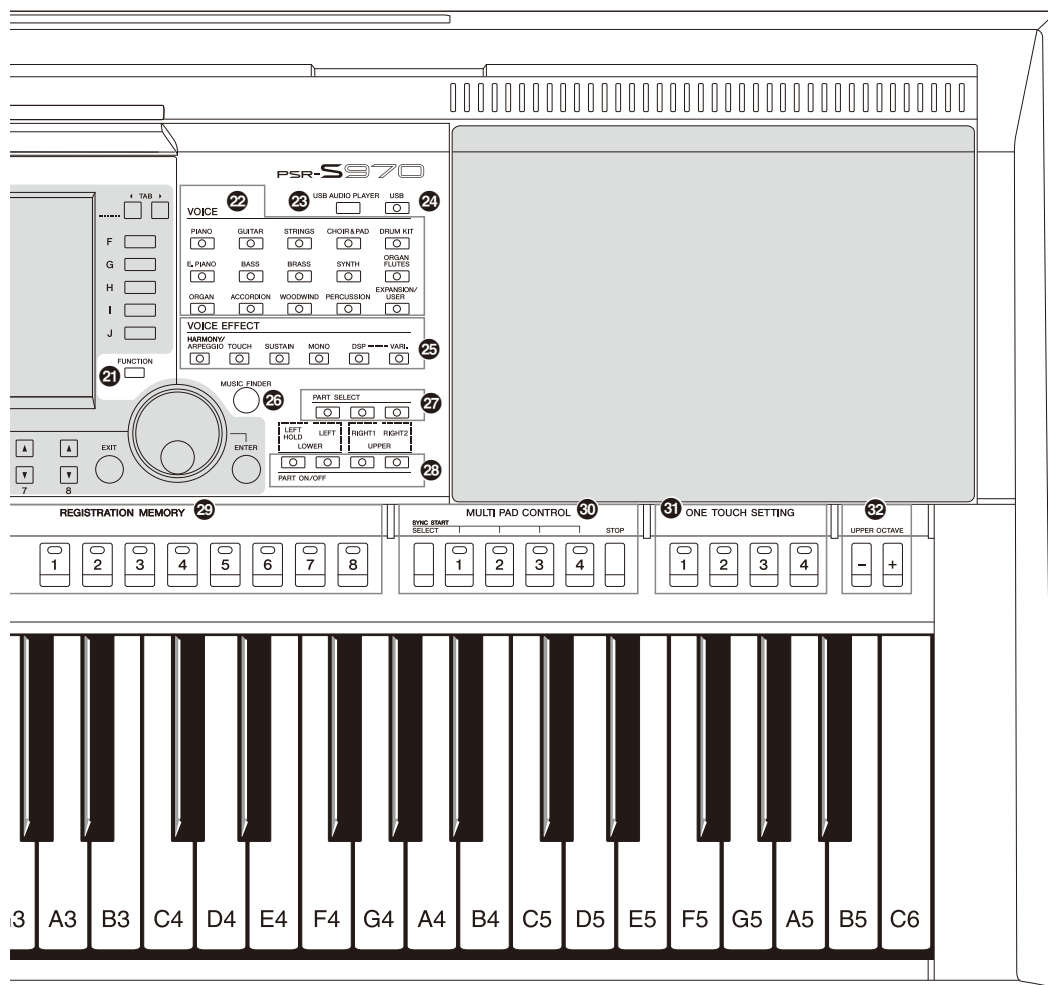
- ❶ DC IN jack
- ❷ FOOT PEDAL [1]/[2] jacks
- ❸ OUTPUT [L/L+R]/[R] jacks
- ❹ [AUX IN] jack
- ❺ [MIC/GUITAR INPUT] jack
- ❻ [GAIN] knob
- ❼ [MIC GUITAR] switch
- ❽ MIDI [IN]/[OUT] terminals
- ❾ [USB TO HOST] terminal
- ❿ [USB TO DEVICE] terminal
- ⓫ [RGB OUT] terminal (PSR-S970)

• Front Panel



■ Front Panel

- | | |
|---|--|
| <ul style="list-style-type: none"> ① [] (Standby/On) switch ② [MASTER VOLUME] dial ③ [DEMO] button ④ [MIC SETTING/VOCAL HARMONY] button (PSR-S970) / [MIC SETTING] button (PSR-S770) ⑤ SONG buttons ⑥ STYLE category selection buttons ⑦ [TAP TEMPO]/TEMPO buttons ⑧ TRANSPOSE buttons ⑨ [METRONOME] button ⑩ [FADE IN/OUT] button ⑪ [OTS LINK] button | <ul style="list-style-type: none"> ⑫ STYLE CONTROL buttons ⑬ [ASSIGN] button, LIVE CONTROL knobs ⑭ [PITCH BEND] wheel ⑮ [MODULATION] wheel ⑯ [PHONES] jack ⑰ LCD and related controls ⑱ [BAL.] button ⑲ [MIXER/EQ] button ⑳ [CHANNEL ON/OFF] button ㉑ [FUNCTION] button ㉒ VOICE category selection buttons ㉓ [USB AUDIO PLAYER] button |
|---|--|

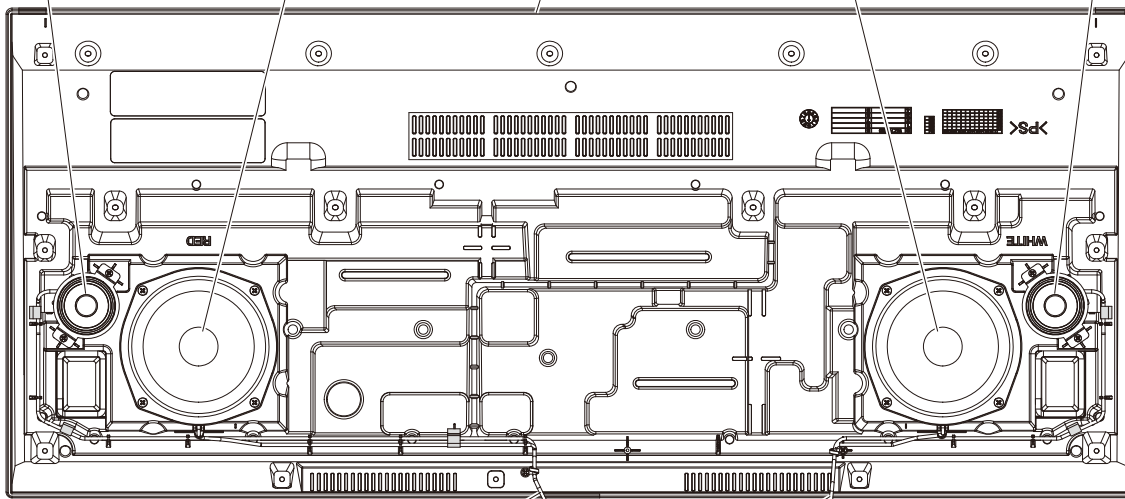


- 24 [USB] button
- 25 VOICE EFFECT buttons
- 26 [MUSIC FINDER] button
- 27 PART SELECT buttons
- 28 PART ON/OFF buttons
- 29 REGISTRATION MEMORY buttons
- 30 MULTI PAD CONTROL buttons
- 31 ONE TOUCH SETTING buttons
- 32 UPPER OCTAVE buttons

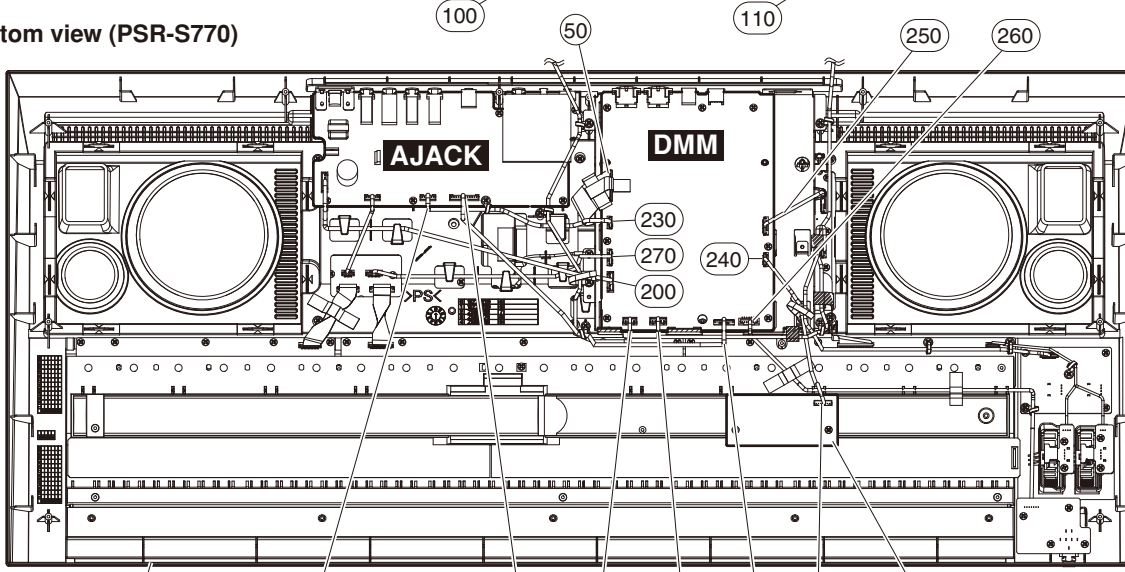
CIRCUIT BOARD LAYOUT & WIRING

• Top view (PSR-S770)

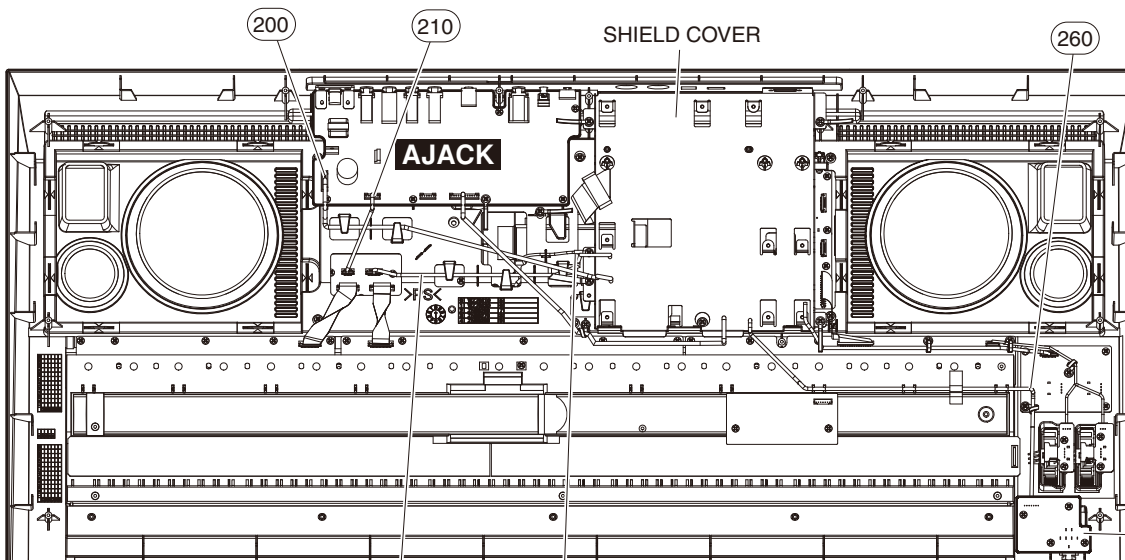
SPEAKER R (TWEETER) SPEAKER R (WOOFER) LOWER CASE ASSEMBLY SPEAKER L (WOOFER) SPEAKER L (TWEETER)



• Bottom view (PSR-S770)



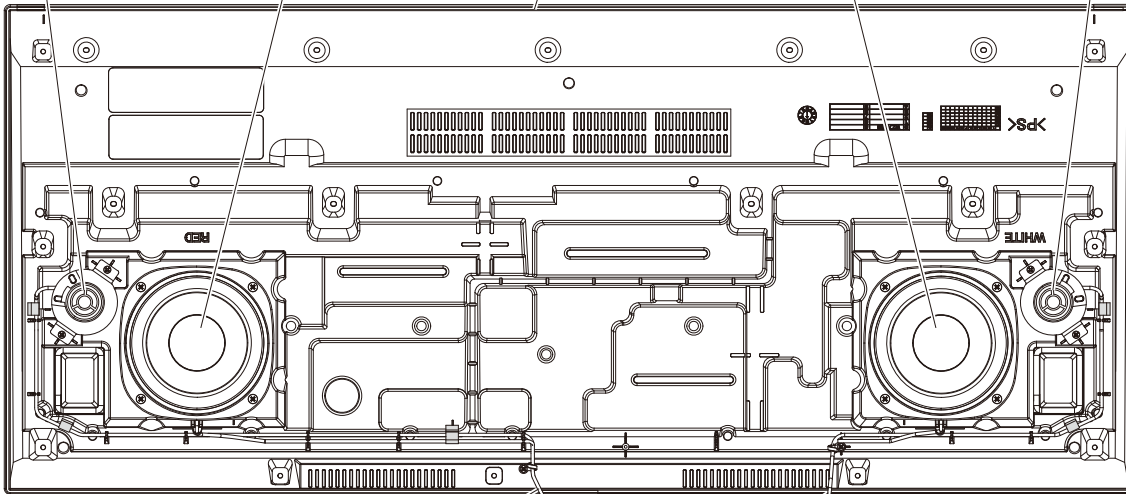
UPPER CASE ASSEMBLY 230 220 100 110 220 240 **EMKS61A**



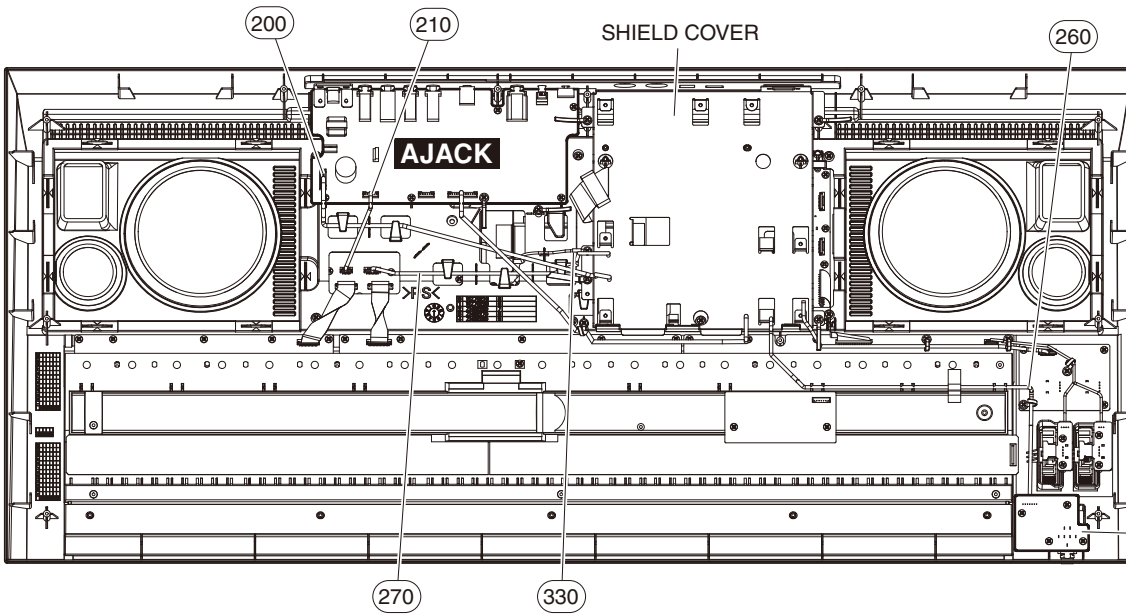
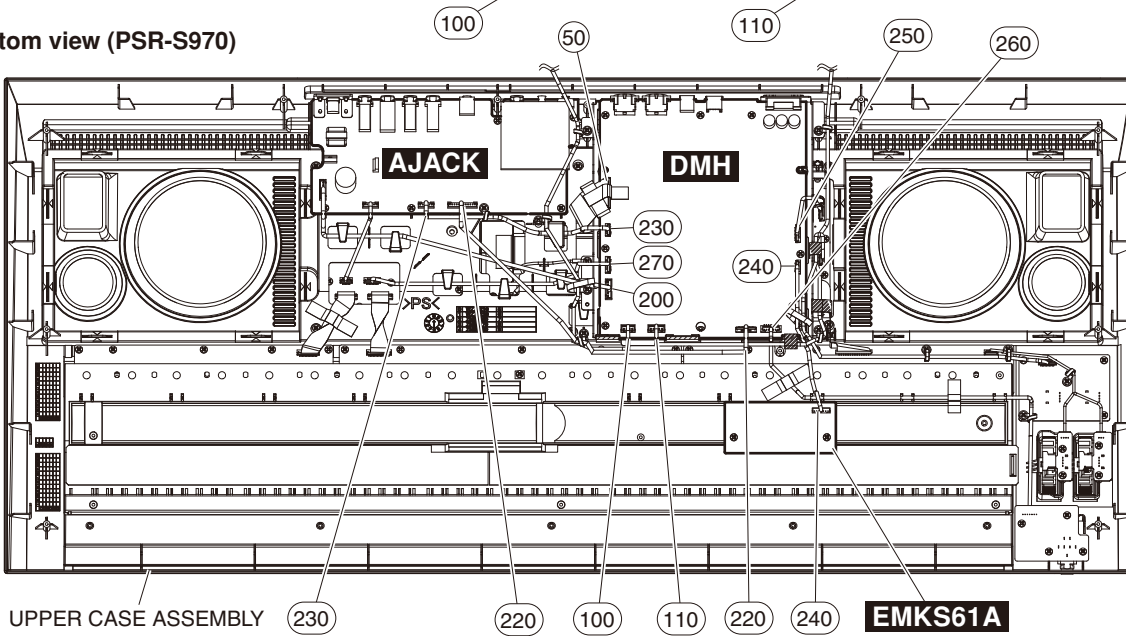
HP

• Top view (PSR-S970)

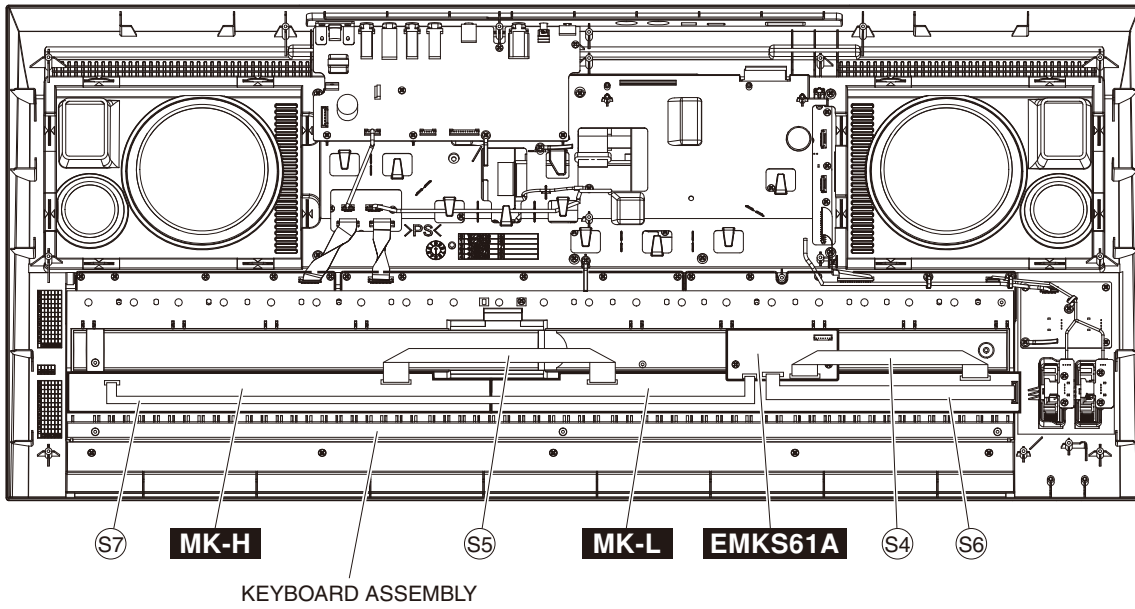
SPEAKER R (TWEETER) SPEAKER R (WOOFER) LOWER CASE ASSEMBLY SPEAKER L (WOOFER) SPEAKER L (TWEETER)



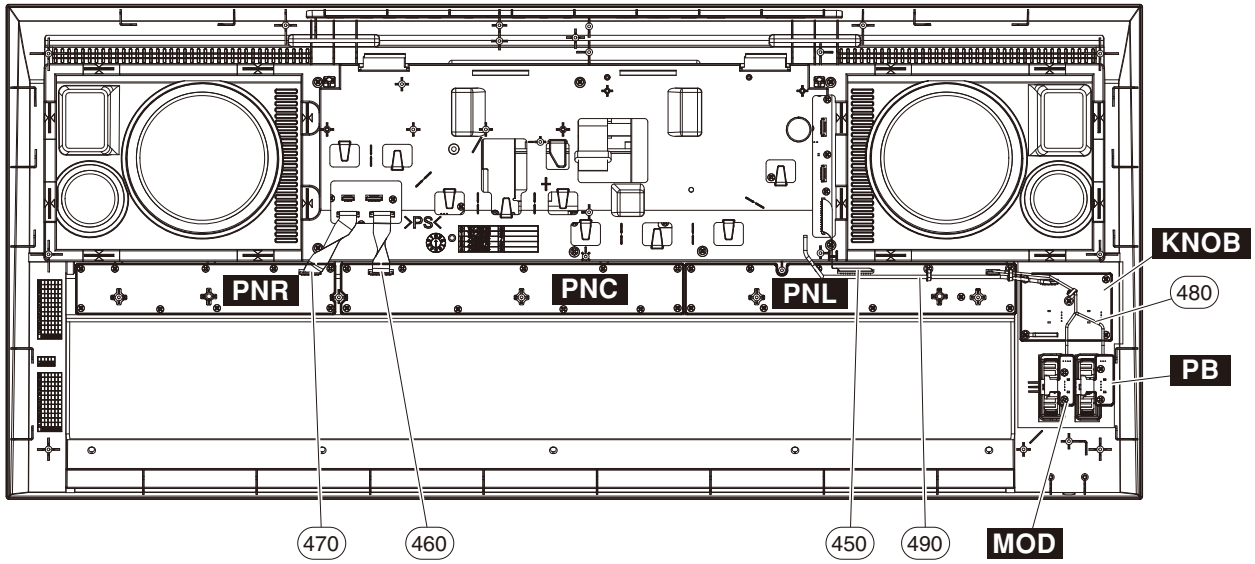
• Bottom view (PSR-S970)



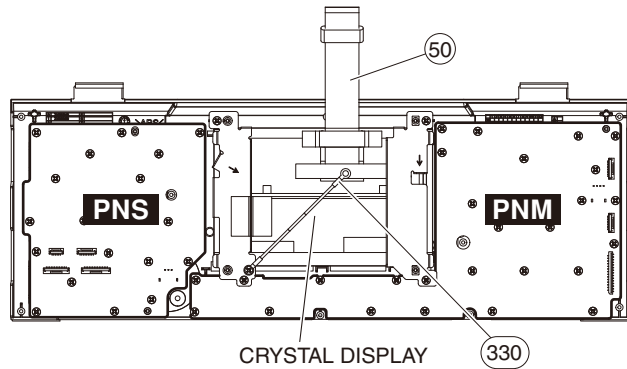
• Bottom view



• UPPER CASE ASSEMBLY



• CENTER PANEL ASSEMBLY



● PSR-S770

Unit Name	Location	Parts No.	Parts Name	Connection	Remarks
OVERALL ASSEMBLY	200	(ZP69140)	Connector Assembly XH S	DMM CN802 - AJACK CN102	6P L=320
	210	(ZP44110)	Connector Assembly PH-GH S	AJACK CN104 - PNS CN202	6P L=110
	220	(ZP44070)	Connector Assembly PH-GH S	DMM CN803 - AJACK CN100	12P L=335
	230	(ZP44090)	Connector Assembly PH-GH S	DMM CN004 - AJACK CN101	7P/6P L=210
	240	(ZP44100)	Connector Assembly PH-GH S	DMM CN003 - EMKS61A CN1	7P L=180
	250	(ZP44120)	Connector Assembly GH S	DMM CN002 - PNM CN100	10P L=110
	260	(ZP44170)	Connector Assembly PH S	DMM CN805 - HP CN200	7P L=430
	270	(ZP44130)	Connector Assembly GH S	DMM CN005 - PNS CN203	9P L=250
UPPER CASE ASSEMBLY	450	ZA581500	Connector Assembly FFC S	PNM CN101 - PNL CN102	29P L=130
	460	(ZP44140)	Connector Assembly GH S	PNS CN201 - PNC CN200	15P L=100
	470	(ZP44150)	Connector Assembly GH S	PNS CN200 - PNR CN300	13P L=110
	480	(ZT25170)	Connector Assembly PBMOD S	PB CN401 - MOD CN402 -	PNL CN101 4P/3P-7P L=145
	490	(ZP44180)	Connector Assembly KNOB	KNOB CN400 - PNM CN402	10P-9P L=390
CENTER PANEL ASSEMBLY	50	ZP442000	Wiring Assembly FFC S LF	DMM CN401 - LCD	50P L=150
	330	(WJ01350)	Connector Assembly GROUND3	LCD FIXTURE R - SHIELD COVER	L=80
LOWER CASE ASSEMBLY	100	(ZA58080)	Connector Assembly SPR S	DMM CN801-SP Rch (Wo, Tw)	4P L=780
	110	(ZA58110)	Connector Assembly SPL S	DMM CN800-SP Lch (Wo, Tw)	5P L=660
KEYBOARD ASSEMBLY	S4	VU95890R	Cable	EMKS61A CN2 - MK-L	12P L=190
	S5	VU65950R	Cable	MK-M - MK-L	12P
	S6	VU65940R	Cable	EMKS61A CN4 - MK-L	7P
	S7	VU65960R	Cable	EMKS61A CN3 - MK-H	5P

● PSR-S970

Unit Name	Location	Parts No.	Parts Name	Connection	Remarks
OVERALL ASSEMBLY	200	(ZP69140)	Connector Assembly XH S	DMH CN802 - AJACK CN102	6P L=320
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	220	(ZP44070)	Connector Assembly PH-GH S	DMH CN803 - AJACK CN100	12P L=335
	230	(ZP44090)	Connector Assembly PH-GH S	DMH CN004 - AJACK CN101	7P/6P L=210
	240	(ZP44100)	Connector Assembly PH-GH S	DMH CN003 - EMKS61A CN1	7P L=180
	250	(ZP44120)	Connector Assembly GH S	DMH CN002 - PNM CN100	10P L=110
	260	(ZP44170)	Connector Assembly PH S	DMH CN805 - HP CN200	7P L=430
	270	(ZP44130)	Connector Assembly GH S	DMH CN005 - PNS CN203	9P L=250
UPPER CASE ASSEMBLY	450	ZA581500	Connector Assembly FFC S	PNM CN101 - PNL CN102	29P L=130
	460	(ZP44140)	Connector Assembly GH S	PNS CN201 - PNC CN200	15P L=100
	470	(ZP44150)	Connector Assembly GH S	PNS CN200 - PNR CN300	13P L=110
	480	(ZT25170)	Connector Assembly PBMOD S	PB CN401 - MOD CN402 -	PNL CN101 4P/3P-7P L=145
	490	(ZP44180)	Connector Assembly KNOB	KNOB CN400 - PNM CN402	10P-9P L=390
CENTER PANEL ASSEMBLY	50	ZP442000	Wiring Assembly FFC S LF	DMH CN401 - LCD	50P L=150
	330	(WJ01350)	Connector Assembly GROUND3	LCD FIXTURE R - SHIELD COVER	L=80
LOWER CASE ASSEMBLY	100	(ZA58080)	Connector Assembly SPR S	DMH CN801-SP Rch (Wo, Tw)	4P L=780
	110	(ZA58110)	Connector Assembly SPL S	DMH CN800-SP Lch (Wo, Tw)	5P L=660
KEYBOARD ASSEMBLY	S4	VU95890R	Cable	EMKS61A CN2 - MK-L	12P L=190
	S5	VU65950R	Cable	MK-M - MK-L	12P
	S6	VU65940R	Cable	EMKS61A CN4 - MK-L	7P
	S7	VU65960R	Cable	EMKS61A CN3 - MK-H	5P

* The parts with "()" in "Part No." are not available as spare parts.

Caution: Be sure to attach the removed filament tape just as it was before removal.

DISASSEMBLY PROCEDURE

Precautions

- * Disassembly or assembly should be performed on a cloth so as not to damage the LCD.
- * Install the filament tape and the harness clamp in the same way as they were before removal.

* Notes on Flat Cable

Contacts are visible from the back. Pay attention not to insert and install the cable to the connector inversely. (Photo 1)



Front Side Back Side

Photo 1

1. Bottom Board Assembly

(Time required: About 4 minutes)

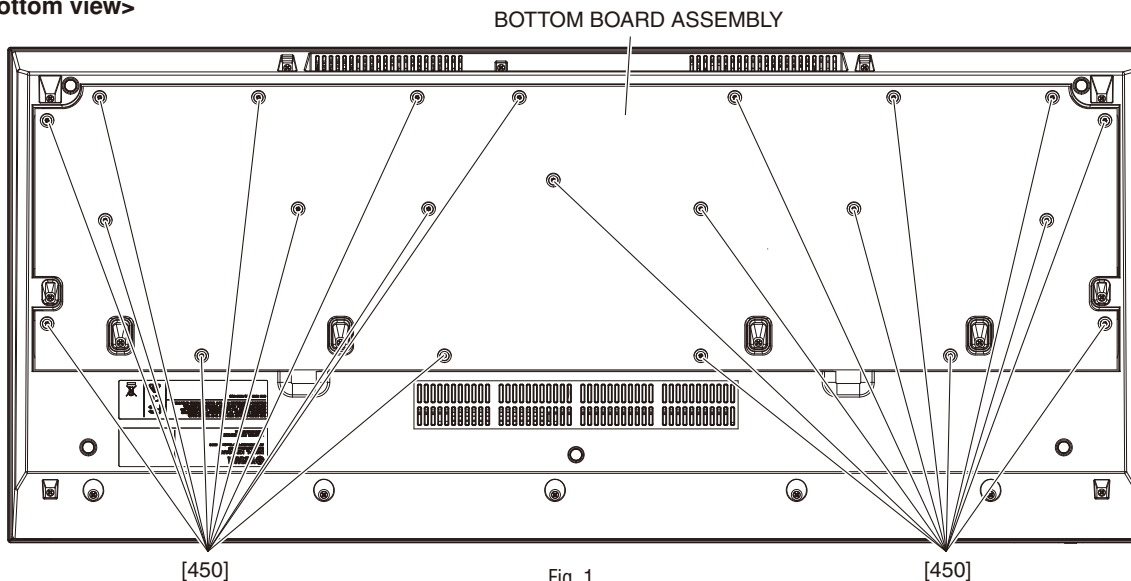
Remove the twenty-two (22) screws marked [450]. The bottom board assembly can then be removed. (Fig. 1)

2. Lower Case Assembly

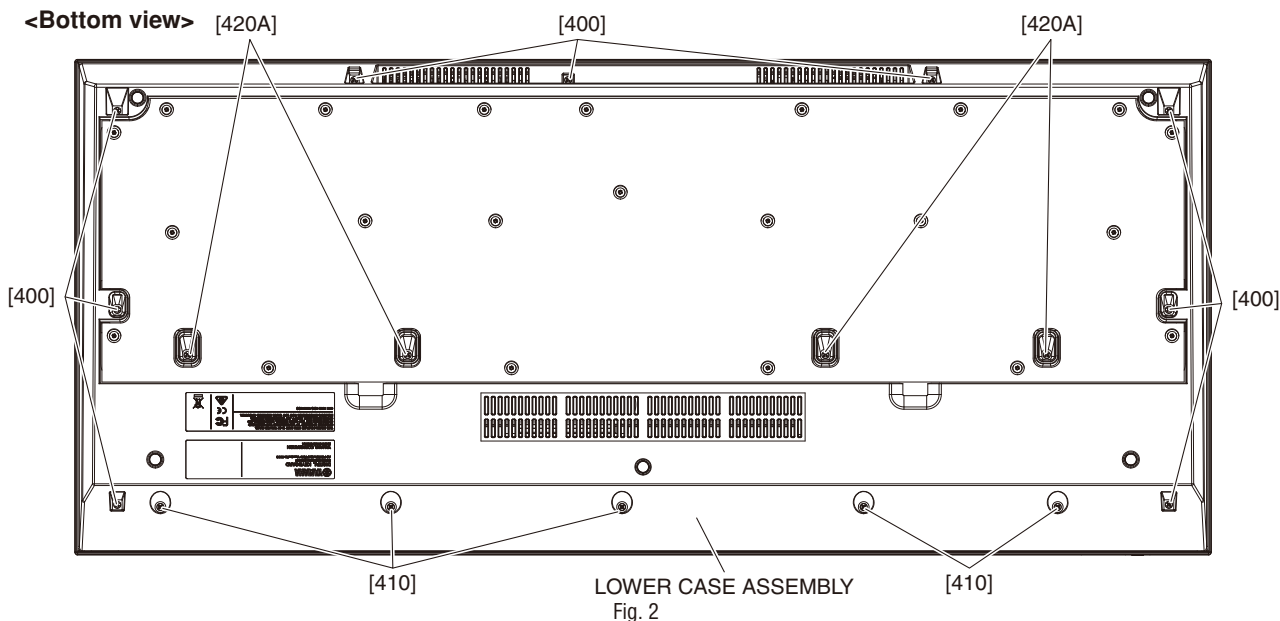
(Time required: About 4 minutes)

Remove the nine (9) screws marked [400], the five (5) screws marked [410] and the four (4) screws marked [420A]. The lower case assembly can then be removed. (Fig. 2)

<Bottom view>



<Bottom view>



3. DMM/DMH Circuit Board

(Time required: About 5 minutes)

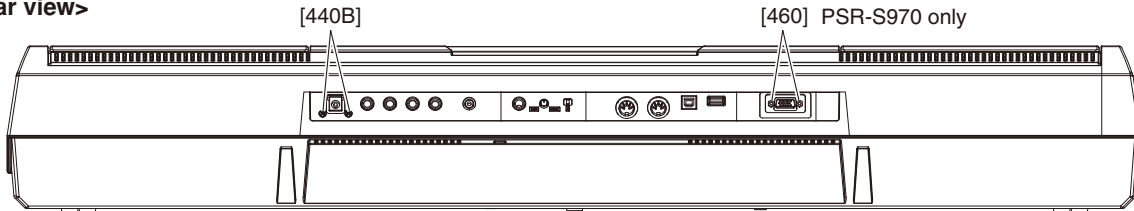
3-1. Remove the lower case assembly. (See procedure 2.)

3-2. **PSR-S770:** Remove the seven (7) screws marked [440A]. The DMM circuit board can then be removed. (Fig. 3)

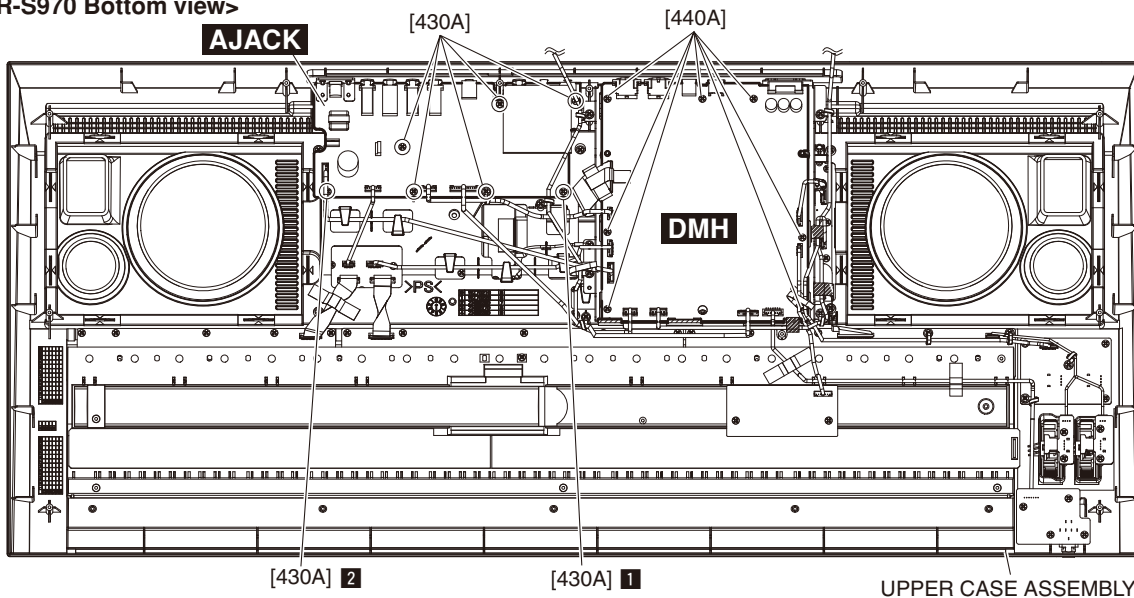
PSR-S970: Remove the two (2) hexagonal lock screws marked [460] on the rear and the seven (7) screws marked [440A]. The DMH circuit board can then be removed. (Fig. 3)

- * After replacing the DMM/DMH circuit board, make sure to execute the "Factory Set" in the Test program.
- * Hardware ID is stored in the Backup ROM on the DMM/DMH circuit board. If the DMM/DMH circuit board is replaced, Hardware ID will be changed.
- * After replacing the DMH circuit board, be sure to execute the test "068: NAND ROM Check2." (p.48) (PSR-S970 only)

<Rear view>



<PSR-S970 Bottom view>



<PSR-S770 Bottom view>

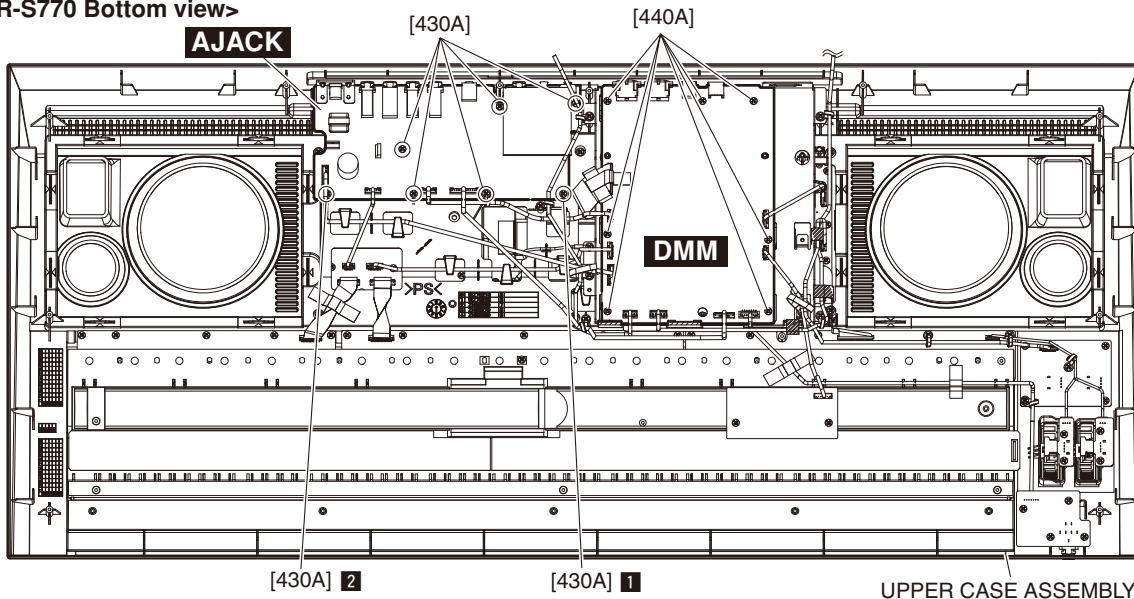


Fig. 3

4. AJACK Circuit Board

(Time required: About 5 minutes)

- 4-1. Remove the lower case assembly. (See procedure 2.)
- 4-2. Remove the two (2) screws marked [440B] on the rear and the seven (7) screws marked [430A]. The AJACK circuit board can then be removed. (Fig. 3)

* **When installing the AJACK circuit board, tighten the screws 1 and 2 shown in Fig. 3 in numerical order and then tighten the other screws.**

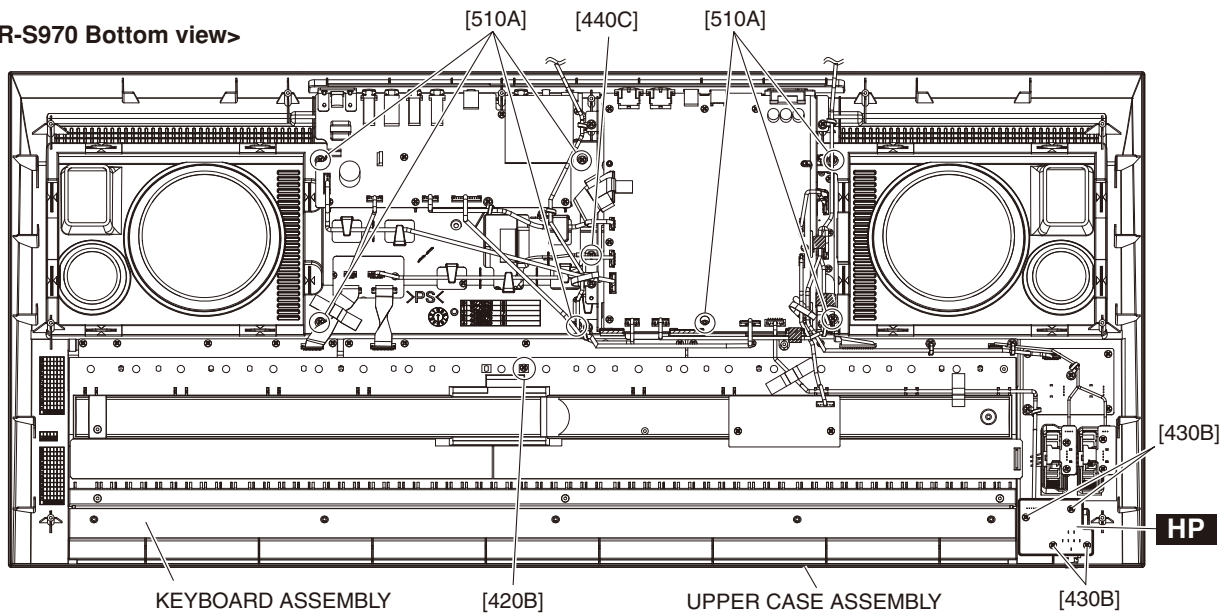
5. Center Panel Assembly

(Time required: About 6 minutes)

- 5-1. Remove the lower case assembly. (See procedure 2.)
- 5-2. Remove the seven (7) screws marked [510A] and the screw marked [440C]. (Fig. 4)
- 5-3. Remove the encoder and volume knobs. (Fig. 5)
- 5-4. Remove the screw marked [510B]. The center panel assembly can then be removed. (Fig. 5)

* **When installing the center panel assembly, fit claws of the center panel into the holes in the upper case and install the center panel in the arrow direction. (Fig. 6)**

<PSR-S970 Bottom view>



<PSR-S770 Bottom view>

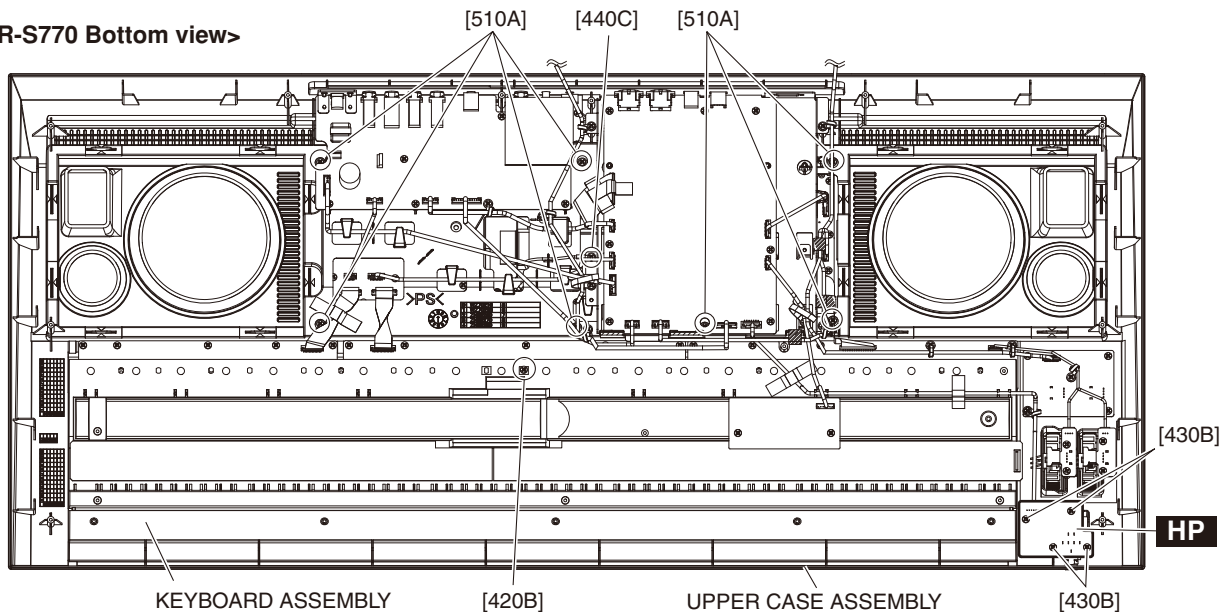


Fig. 4

<Top view>

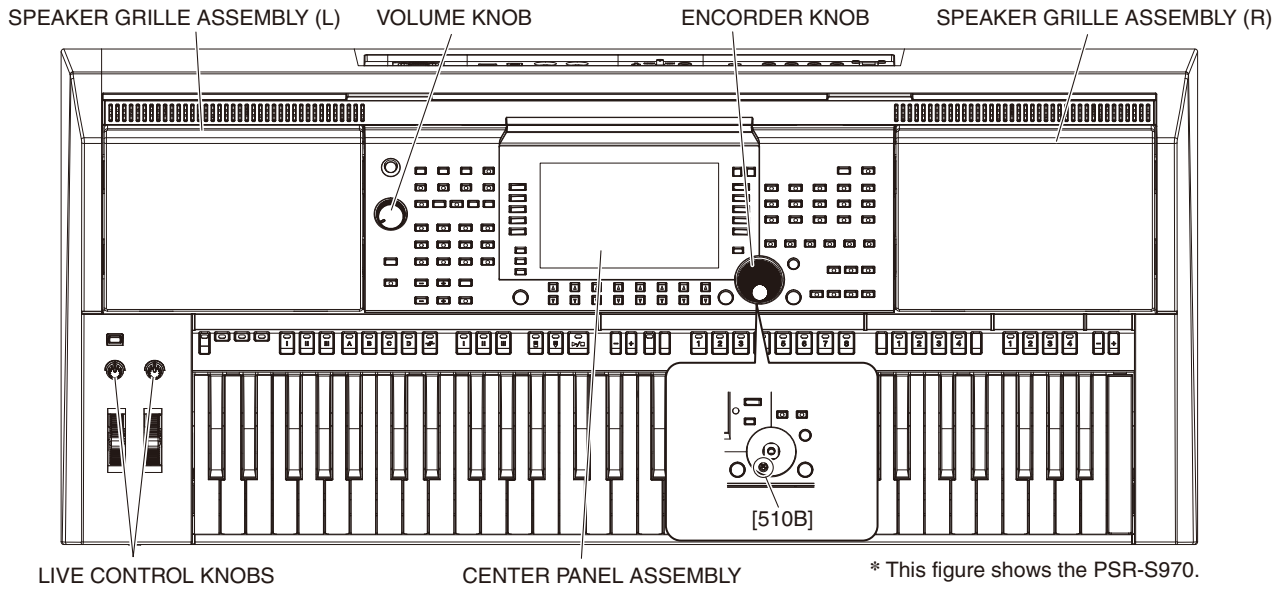


Fig. 5

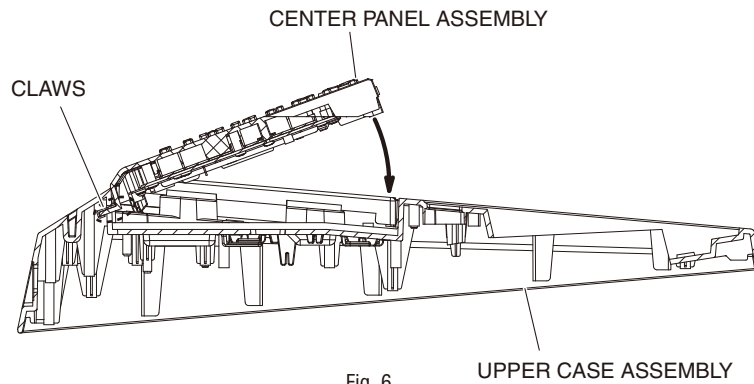


Fig. 6

● CENTER PANEL ASSEMBLY

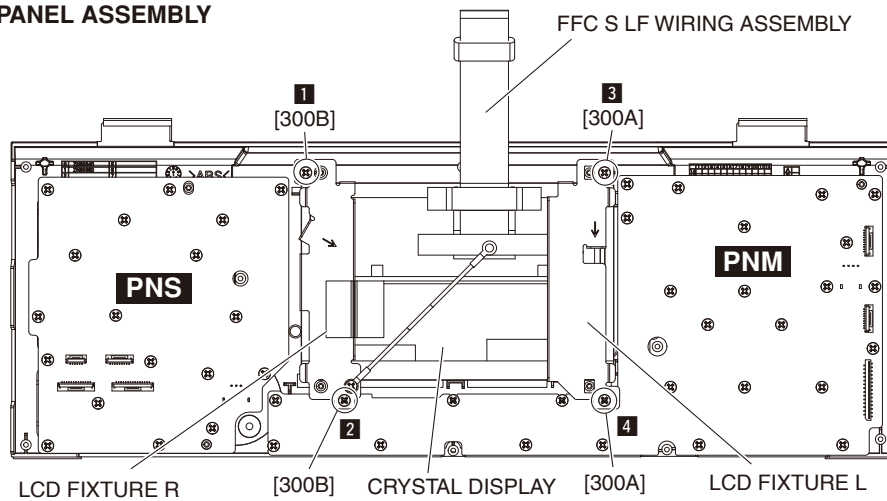


Fig. 7

6. Crystal Display

(Time required: About 7 minutes)

- 6-1. Remove the lower case assembly. (See procedure 2.)
- 6-2. Remove the center panel assembly. (See procedure 5.)
- 6-3. Remove the two (2) screws marked [300A]. The LCD fixture L can then be removed. (Fig. 7)
- 6-4. Remove the two (2) screws marked [300B]. The LCD fixture R can then be removed. (Fig. 7)
 - * **When installing the LCD fixture L and R, tighten screws while pushing it in the arrow direction.**
 - * **When installing the LCD fixture L and R, tighten screws in the order of 1 to 4 as shown in Fig. 7.**
- 6-5. Remove the crystal display.
- 6-6. Remove the FFC S LF wiring assembly. (Fig. 7)

7. PNS Circuit Board

(Time required: About 9 minutes)

- 7-1. Remove the lower case assembly. (See procedure 2.)
- 7-2. Remove the center panel assembly. (See procedure 5.)
- 7-3. Remove the eighteen (18) screws marked [300C]. The PNS circuit board can then be removed. (Fig. 8)
- * **When installing the PNS circuit board, fit the PNS circuit board to the positioning pins at 2 locations shown in Fig. 8 first, tighten the screws 1 and 2 in that order and then tighten the other screws.**

8. PNM Circuit Board

(Time required: About 10 minutes)

- 8-1. Remove the lower case assembly. (See procedure 2.)
- 8-2. Remove the center panel assembly. (See procedure 5.)
- 8-3. Remove the LCD fixture L. (See procedure 6-3.)
- 8-4. Remove the LCD fixture R. (See procedure 6-4.)
- 8-5. Remove the twenty-six (26) screws marked [300D]. The PNM circuit board can then be removed. (Fig. 8)
- * **When installing the PNM circuit board, apply the PNM circuit board to the positioning marks at 3 locations shown in Fig. 8 first, tighten the screws 1 and 2 in that order and then tighten the other screws.**

9. HP Circuit Board

(Time required: About 4 minutes)

- 9-1. Remove the lower case assembly. (See procedure 2.)
- 9-2. Remove the four (4) screws marked [430B]. The HP circuit board can then be removed. (Fig. 4)

10. Keyboard Assembly

(Time required: About 4 minutes)

- 10-1. Remove the lower case assembly. (See procedure 2.)
- 10-2. Remove the screw marked [420B]. The keyboard assembly can then be removed. (Fig. 4)

11. Wheel Assembly, PB Circuit Board

(Time required: About 4 minutes)

- 11-1. Remove the lower case assembly. (See procedure 2.)
- 11-2. Remove the two (2) screws marked [500A]. The PB circuit board can then be removed with the wheel assembly. (Fig. 9)
- * **The wheel assembly is not part of the PB circuit board. When replacing the PB circuit board, remove the wheel assembly from the PB circuit board, and install it on the new circuit board.**

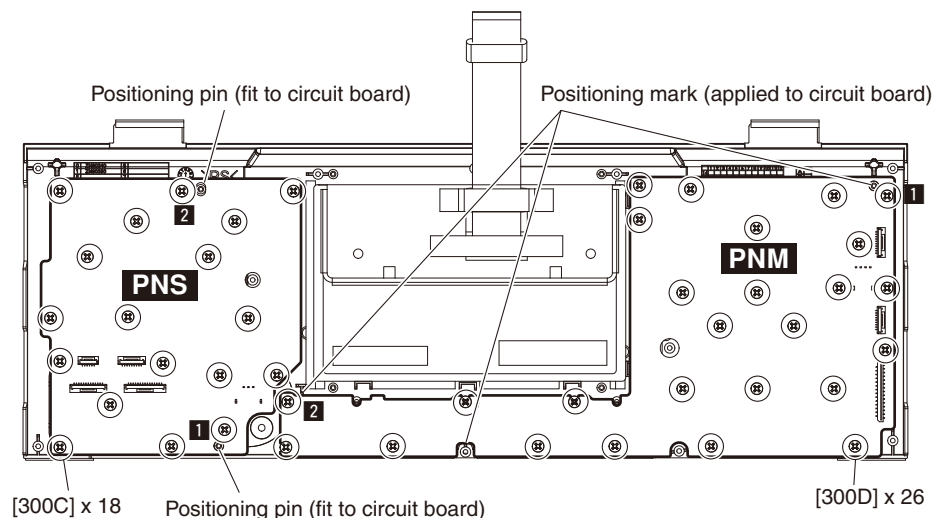


Fig. 8

12. Wheel, MOD Circuit Board

(Time required: About 4 minutes)

- 12-1. Remove the lower case assembly. (See procedure 2.)
- 12-2. Remove the two (2) screws marked [500B]. The MOD circuit board can then be removed with the wheel. (Fig. 9)

* *The wheel is not part of the MOD circuit board. When replacing the MOD circuit board, remove the wheel from the MOD circuit board, and install it on the new circuit board.*

13. PNL Circuit Board

(Time required: About 5 minutes)

- 13-1. Remove the lower case assembly. (See procedure 2.)
- 13-2. Remove the keyboard assembly. (See procedure 10.)
- 13-3. Remove the ten (10) screws marked [500C]. The PNL circuit board can then be removed. (Fig. 9)

* *When installing the PNL circuit board, tighten the screws 1 and 2 shown in Fig. 9 in numerical order and then tighten the other screws.*

14. PNC Circuit Board

(Time required: About 5 minutes)

- 14-1. Remove the lower case assembly. (See procedure 2.)
- 14-2. Remove the keyboard assembly. (See procedure 10.)
- 14-3. Remove the ten (10) screws marked [500D]. The PNC circuit board can then be removed. (Fig. 9)

* *When installing the PNC circuit board, tighten the screws 1 and 2 shown in Fig. 9 in numerical order and then tighten the other screws.*

15. PNR Circuit Board

(Time required: About 5 minutes)

- 15-1. Remove the lower case assembly. (See procedure 2.)
- 15-2. Remove the keyboard assembly. (See procedure 10.)
- 15-3. Remove the nine (9) screws marked [500E]. The PNR circuit board can then be removed. (Fig. 9)

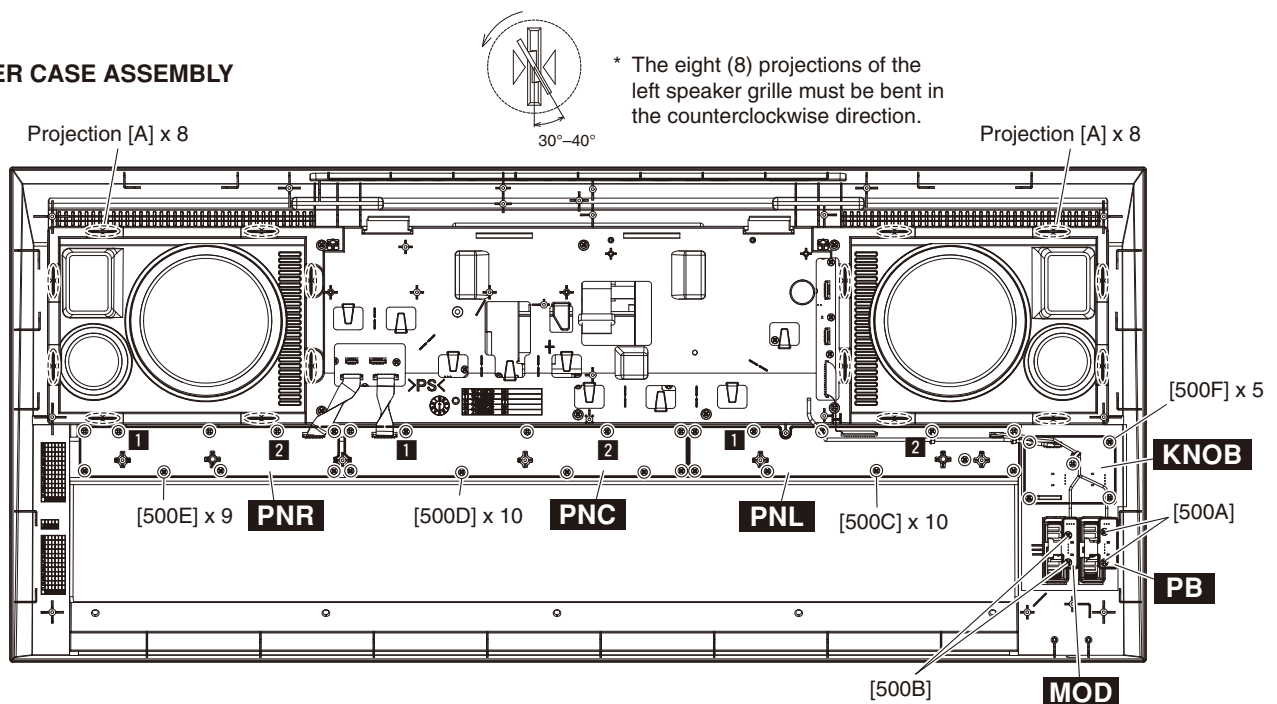
* *When installing the PNR circuit board, tighten the screws 1 and 2 shown in Fig. 9 in numerical order and then tighten the other screws.*

16. KNOB Circuit Board

(Time required: About 4 minutes)

- 16-1. Remove the lower case assembly. (See procedure 2.)
- 16-2. Remove the LIVE CONTROL knobs. (Fig. 5)
- 16-3. Remove the five (5) screws marked [500F]. The KNOB circuit board can then be removed. (Fig. 9)

• UPPER CASE ASSEMBLY



* The eight (8) projections of the left speaker grille must be bent in the counterclockwise direction.

Fig. 9

17. Tweeter

(Time required: About 4 minutes)

- 17-1. Remove the lower case assembly. (See procedure 2.)
- 17-2. Remove the two (2) screws marked [210]. The tweeter can then be removed. (Fig. 10)

* **The left and right tweeters can be removed in the same method.**

18. Woofer

(Time required: About 4 minutes)

- 18-1. Remove the lower case assembly. (See procedure 2.)
- 18-2. Remove the four (4) screws marked [200]. The woofer can then be removed. (Fig. 10)

* **The left and right woofers can be removed in the same method.**

19. Speaker Grille Assembly

(Time required: About 5 minutes)

- 19-1. Remove the lower case assembly. (See procedure 2.)
- 19-2. Restraighten the eight (8) projections marked [A] to come off the slots of the upper case assembly. (Fig. 9)
- 19-3. Remove the speaker grille assembly. (Fig. 5)

* **The left and right speaker grille assembly can be removed in the same method.**

* **The eight (8) projections of the speaker grille must be bent in the counterclockwise direction.**

• Top view

* This figure shows the PSR-S770.

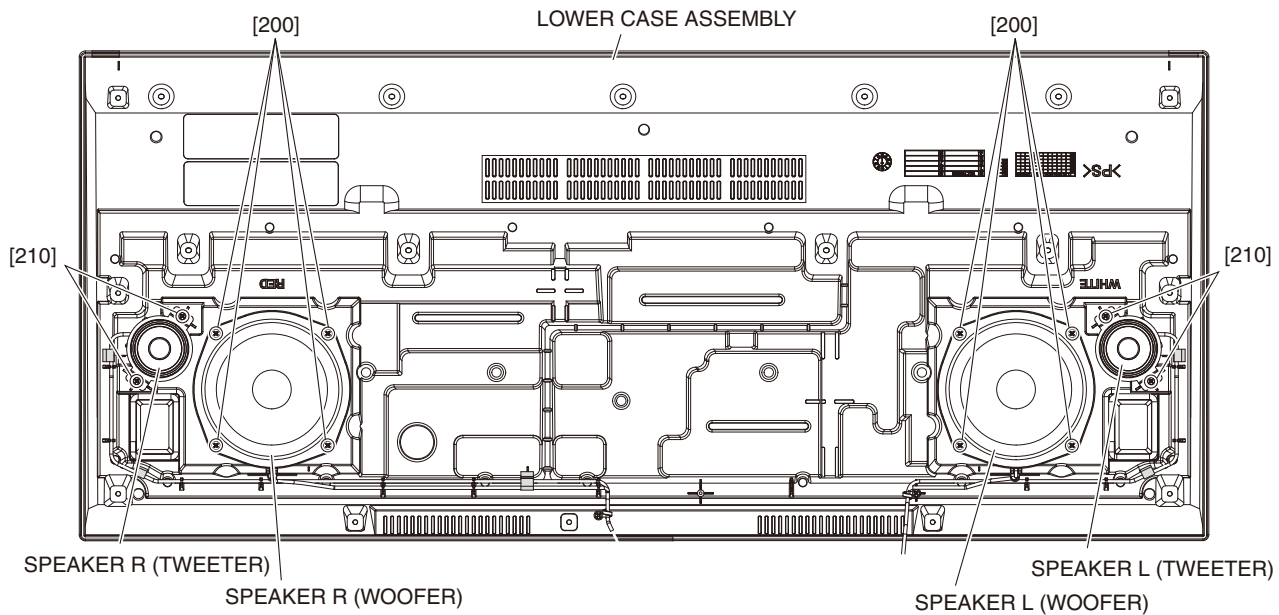


Fig. 10

20. Disassembling the Keyboard Assembly

- 20-1. Remove the lower case assembly. (See procedure 2.)
- 20-2. Remove the keyboard assembly. (See procedure 10.)

**20-3. EMKS61A Circuit Board
(Time required: About 5 minutes)**

- 20-3-1. Remove the two (2) screws marked [30]. The EMKS61A circuit board can then be removed. (Fig. 11)

**20-4. MK-L Circuit Board
(Time required: About 6 minutes)**

- 20-4-1. Remove the EMKS61A circuit board. (See procedure 20-3.)
- 20-4-2. Remove the MK-L circuit board while pressing the eight (8) hooks A in the direction of the arrow. (Fig. 12)

**20-5. MK-H Circuit Board
(Time required: About 6 minutes)**

- 20-5-1. Remove the MK-H circuit board while pressing the seven (7) hooks A in the direction of the arrow. (Fig. 12)

20-6. Rubber Contact

- 20-6-1. Remove the rubber contact. (Fig. 12) (Photo 2)

20-7. White and Black Keys

- 20-8. Remove the twenty-one (21) screws marked [140K], then remove the black keys from the lower notes. (Fig. 13)
- 20-8-1. Remove the white keys DFA and C'. (Fig. 13)
- 20-8-2. Remove the white keys CEGB from the higher notes. (Fig. 13)
- * *Lift the front portion of the keys and slide them towards you. The keys can then be removed from the assembly.*

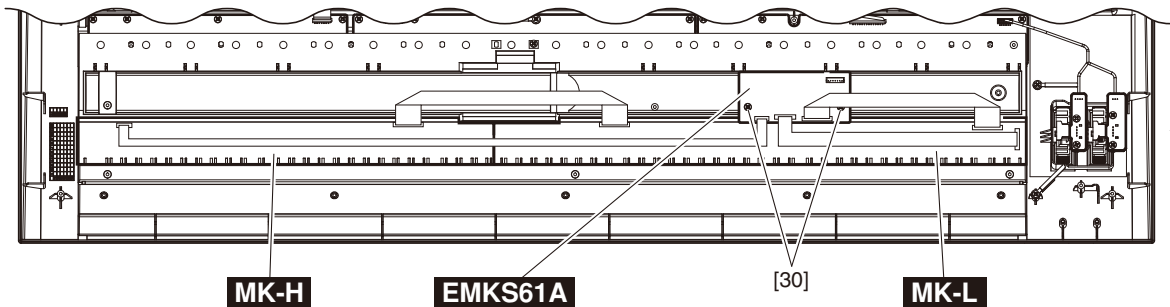
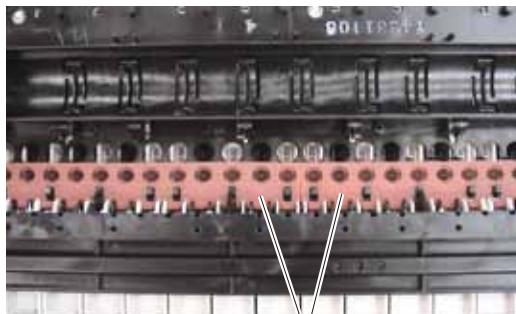


Fig. 11



RUBBER CONTACT

Photo 2

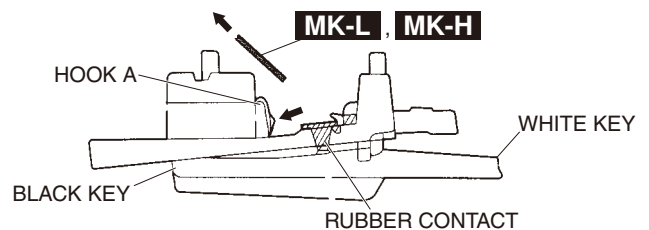


Fig. 12

21. Assembling the Keyboard Assembly

- 21-1. Install the white keys CEGB from the lower notes. (Fig. 13)
- 21-2. Install the white keys DFA and C'. (Fig. 13)
- 21-3. Install the black keys from the higher notes, and tighten the twenty-one (21) screws marked [140K]. (Fig. 13)
- * **To install the white and black keys, insert the projections of the keys into the respective slots [C] on the frame first. (Photo 3, Photo 4, Photo 5)**

- 21-4. Install the rubber contacts while pulling the keys up. (Fig. 14, Fig. 15)
 - * **When fitting the rubber contacts, raise both ends of the frame so that keys do not push the rubber contact up.**
- 21-5. Install the MK-L and MK-H circuit boards in the assembly so that the hooks B hold it. (Fig. 16)

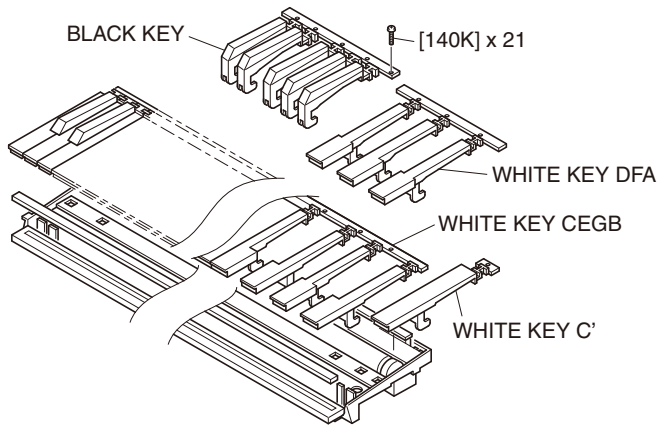


Fig. 13

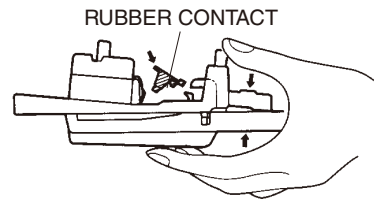


Fig. 14

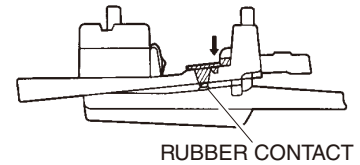


Fig. 15

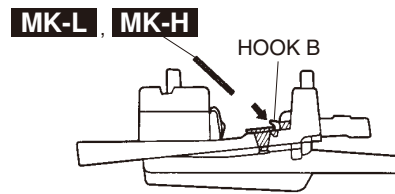


Fig. 16

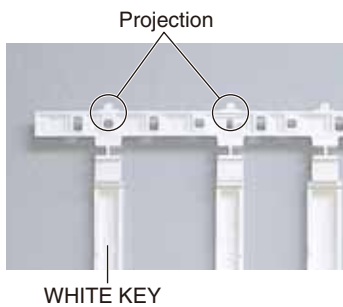


Photo 3

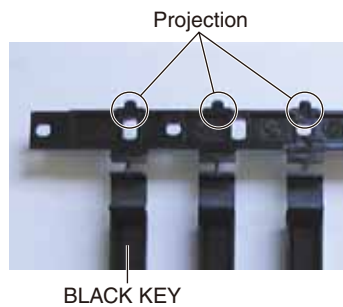


Photo 4

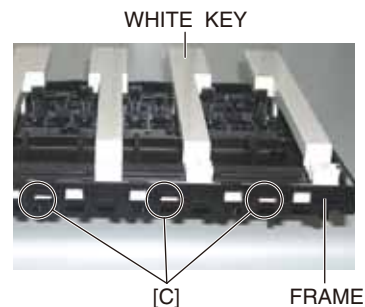


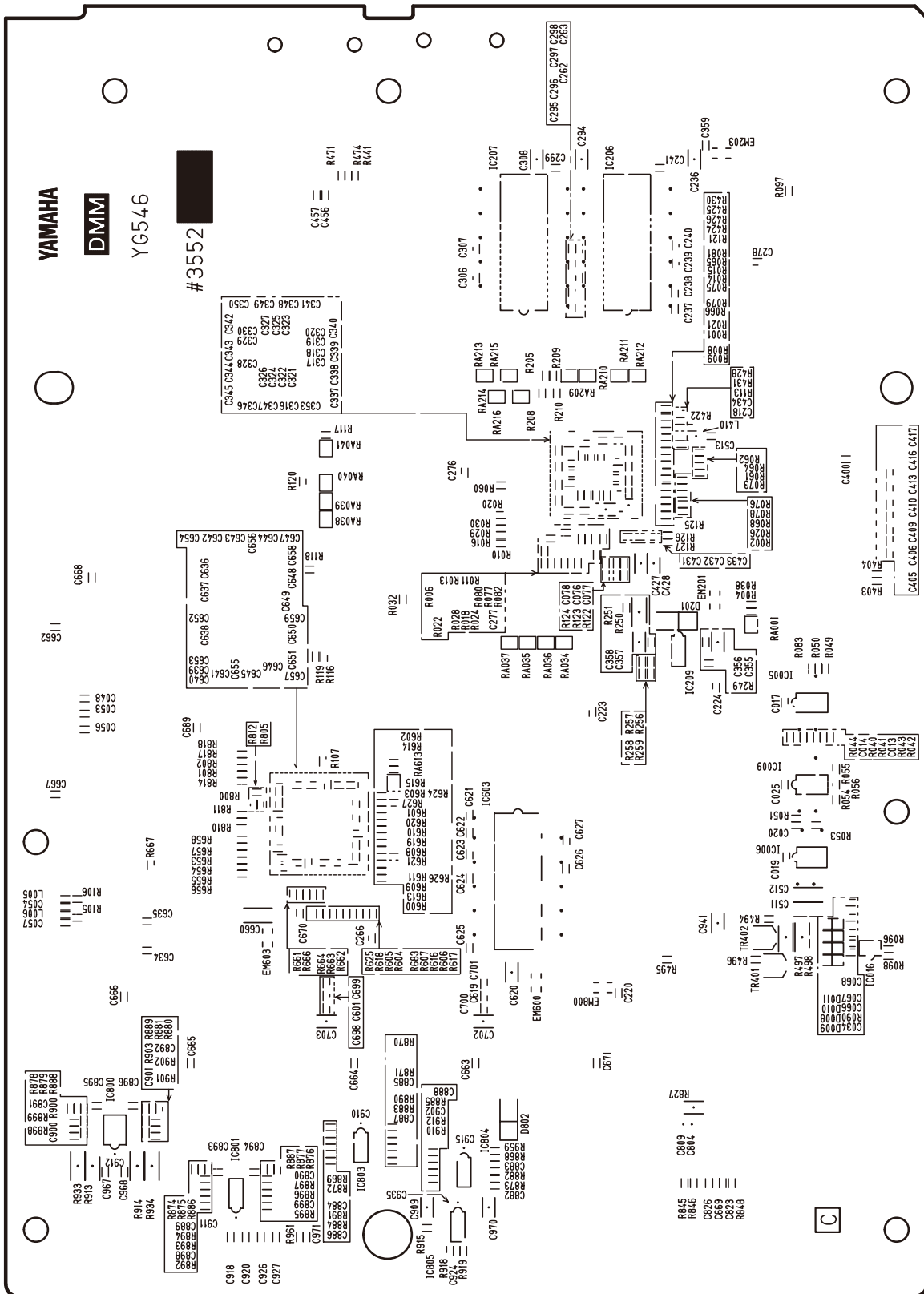
Photo 5

■ CIRCUIT BOARDS

AJACK Circuit Board (YG589F0)	26/27
DMM Circuit Board (YG546C0) (PSR-S770)	22/23
DMH Circuit Board (YG545C0) (PSR-S970)	24/25
EMKS61A Circuit Board (X6637C0)	36/37
KNOB Circuit Board (YG581D0)	30/31
HP Circuit Board (YG589F0)	35
MK-H Circuit Board (XR565C0)	37
MK-L Circuit Board (XR564C0)	36
MOD Circuit Board (YG589F0)	35
PB Circuit Board (YG589F0)	35
PNC Circuit Board (YG588D0)	32
PNL Circuit Board (YG588D0)	33
PNM Circuit Board (YG581D0)	28/29
PNR Circuit Board (YG588D0)	34
PNS Circuit Board (YG581D0)	30/31

Note: See parts list for details of circuit board component parts.

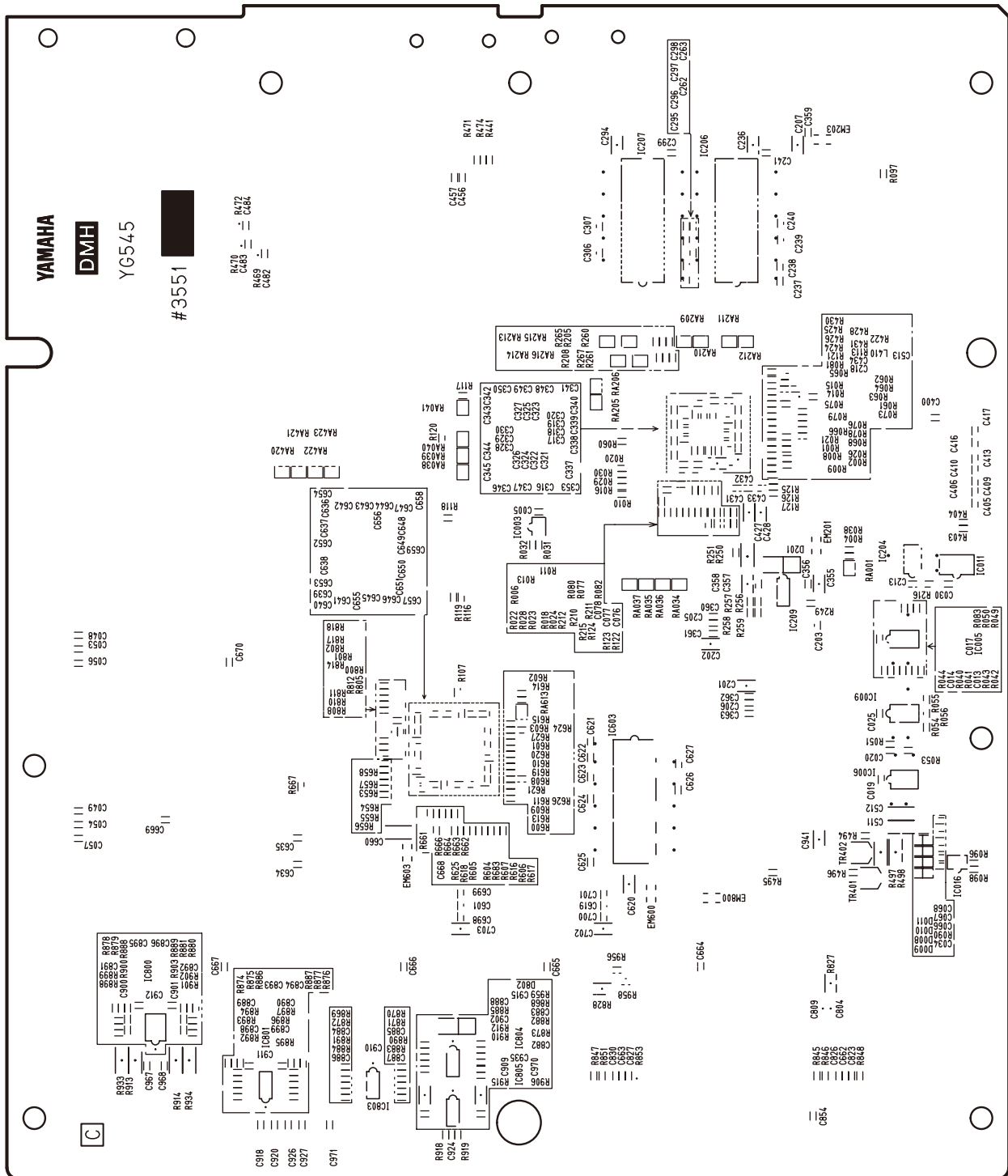
• DMM Circuit Board (PSR-S770)



Pattern side

• DMH Circuit Board (PSR-S970)

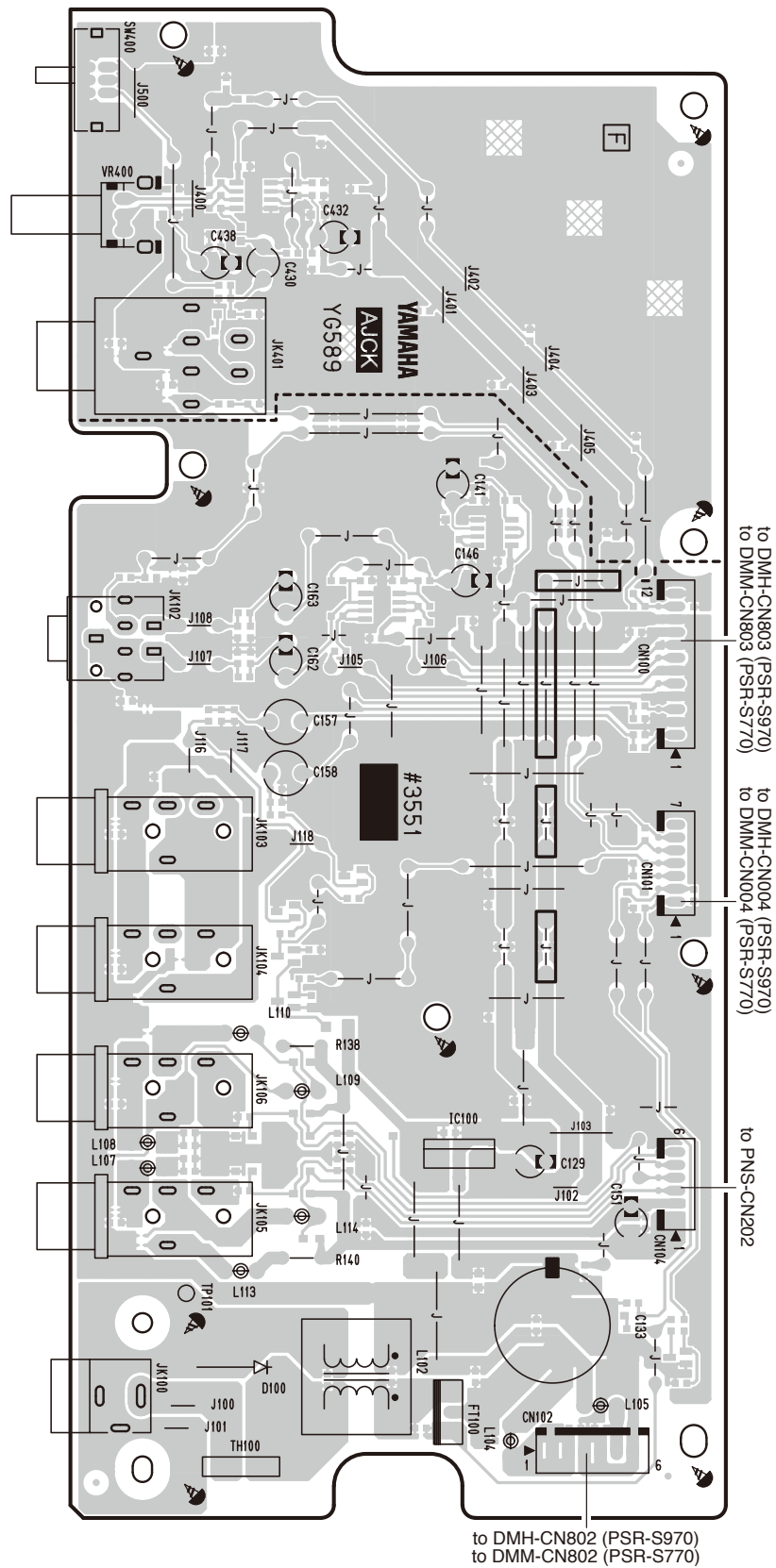
Scale: 90/100



Pattern side

● AJACK Circuit Board

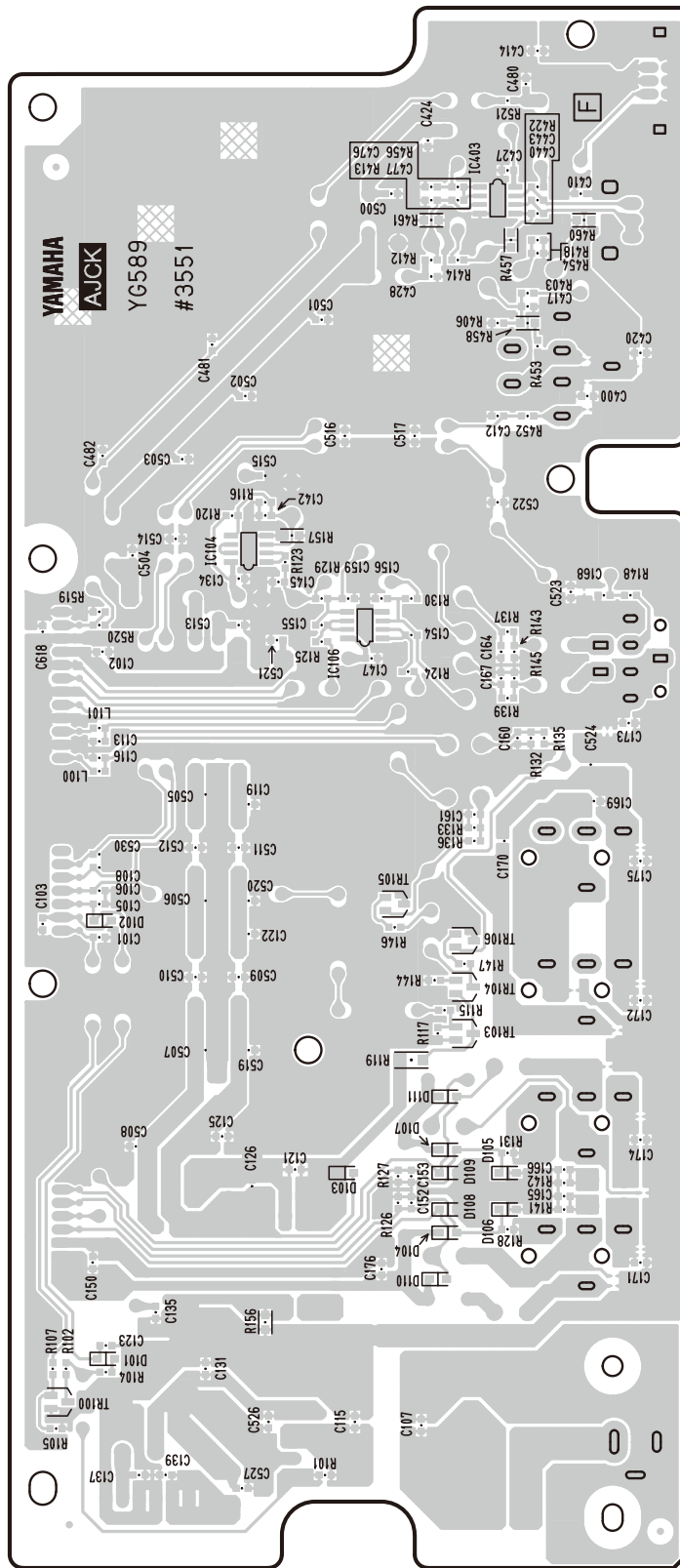
Scale: 90/100



Component side

● AJACK Circuit Board

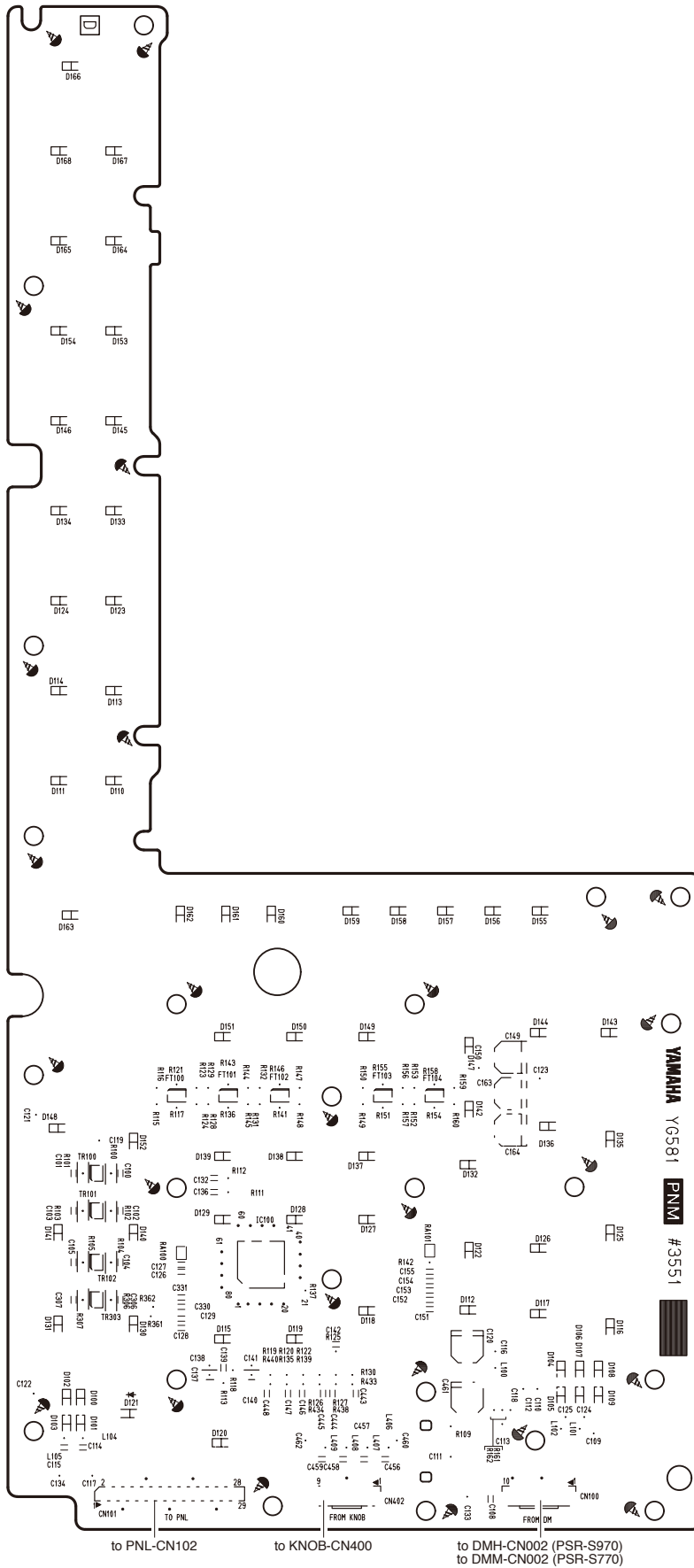
Scale: 90/100



Pattern side

● PNM Circuit Board

Scale: 70/100

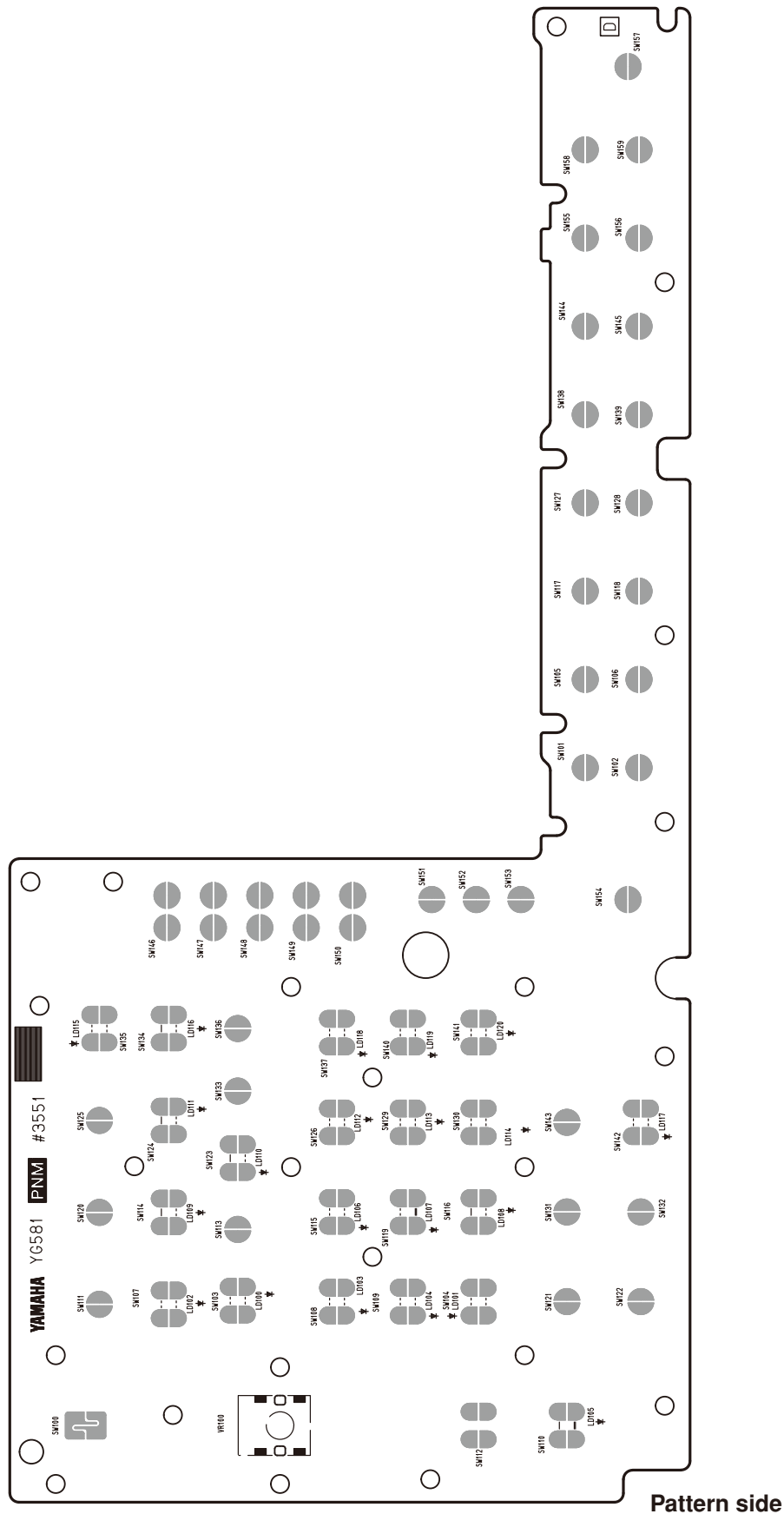


Component side

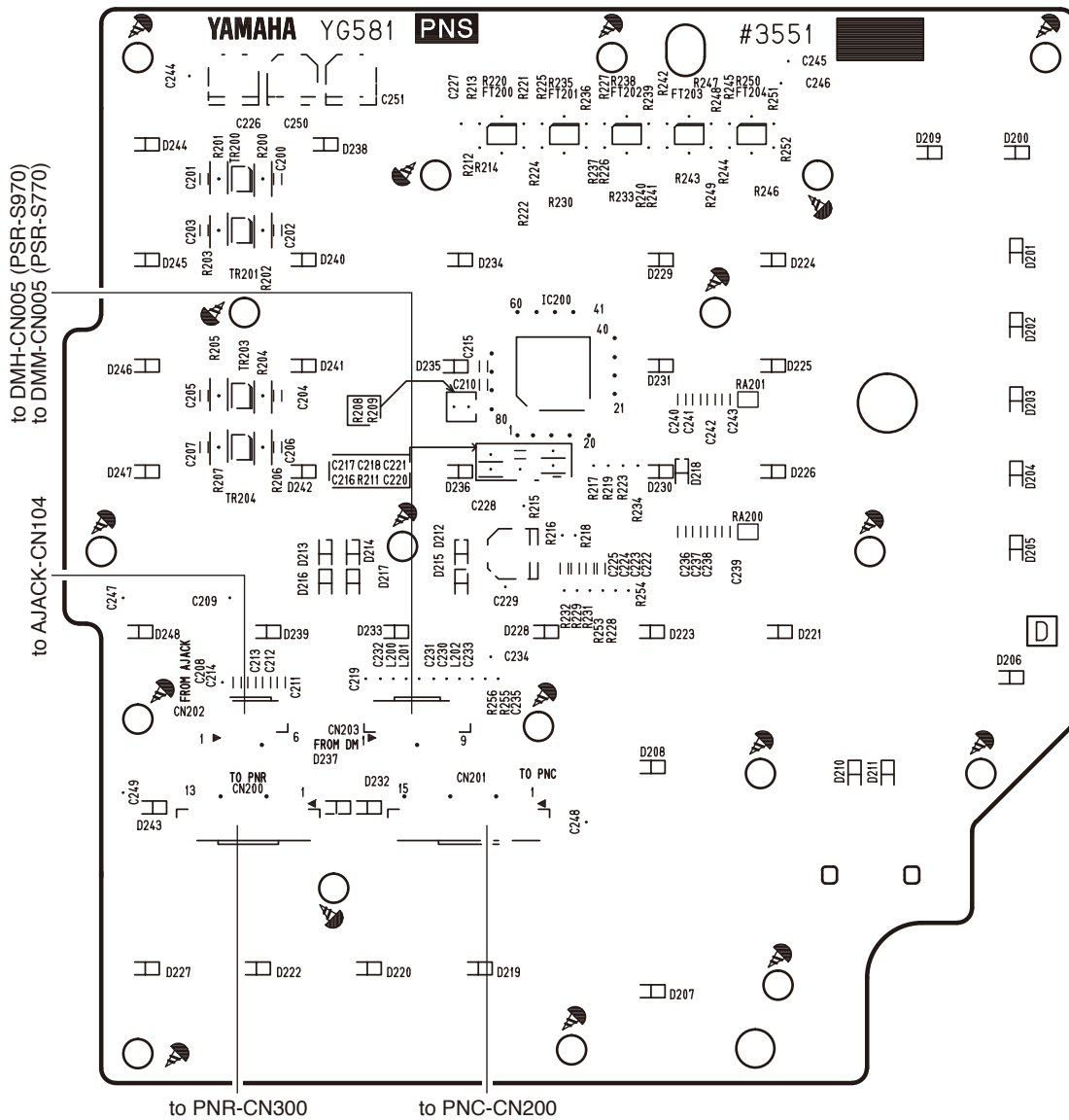
2NA-ZN43310

● PNM Circuit Board

Scale: 70/100

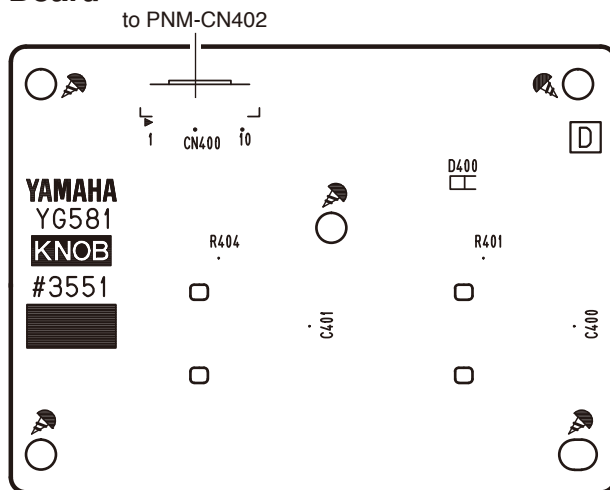


● PNS Circuit Board



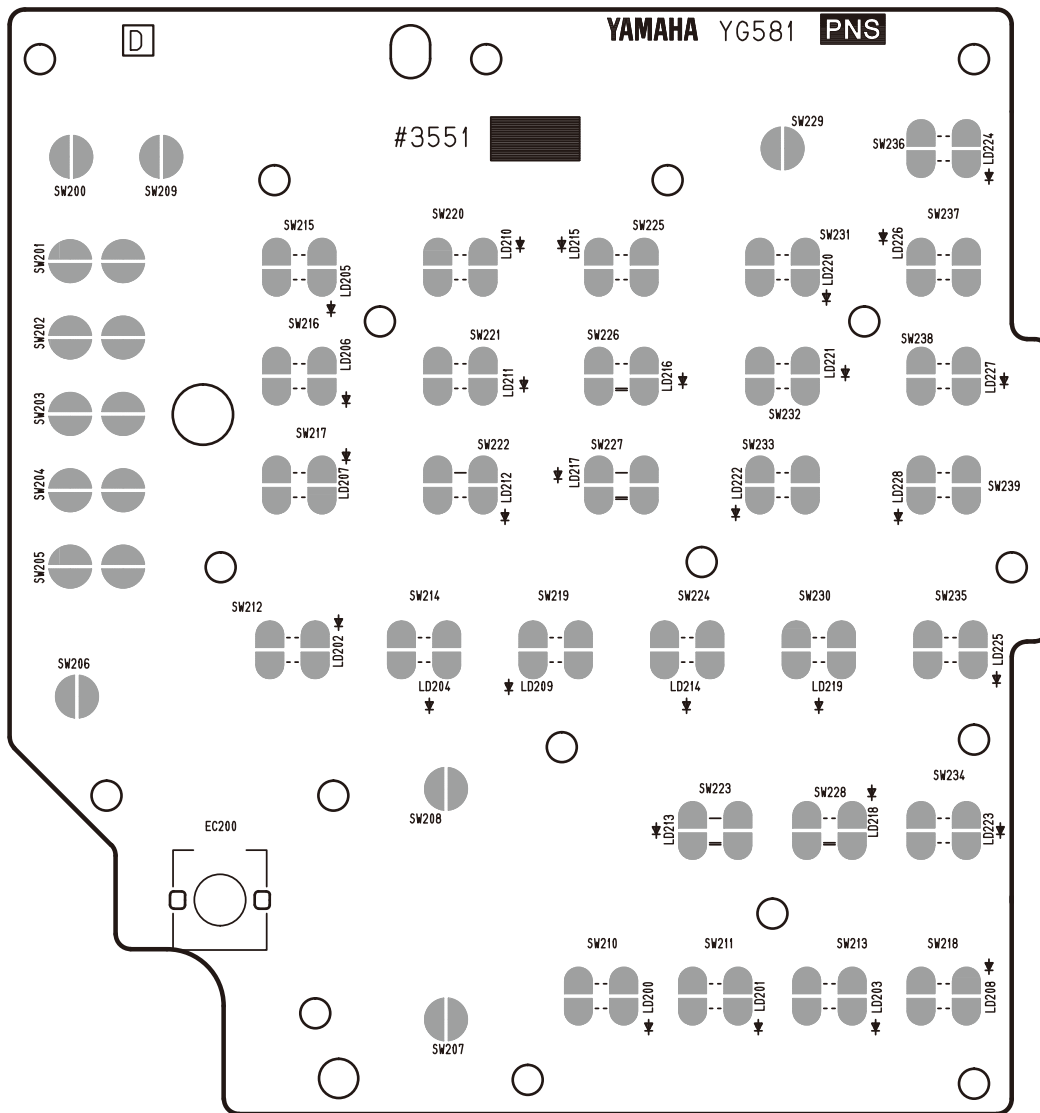
Component side

● KNOB Circuit Board



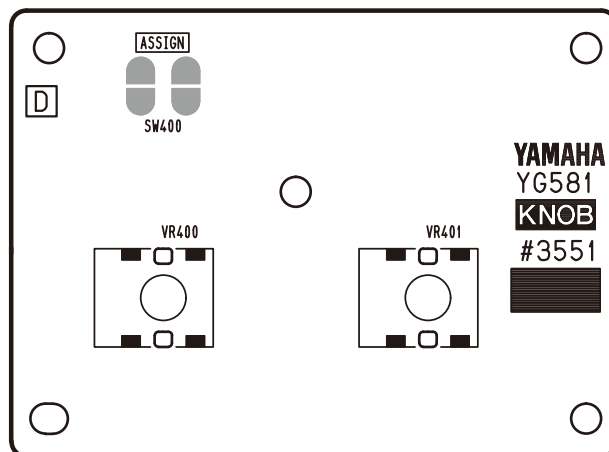
Component side

● PNS Circuit Board



Pattern side

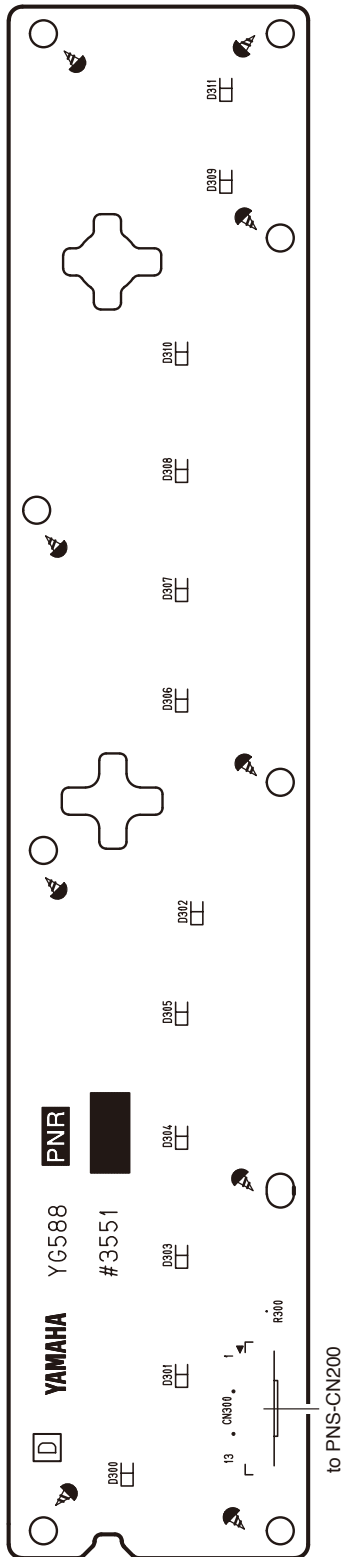
● KNOB Circuit Board



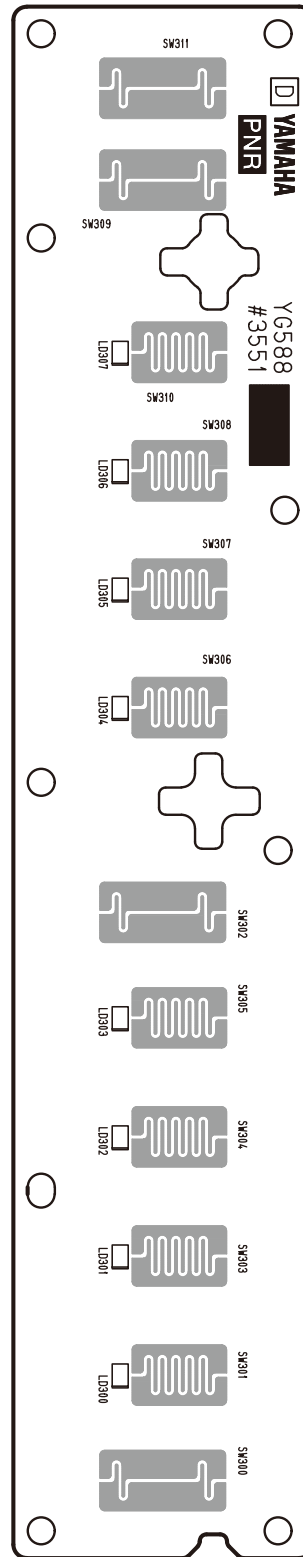
Pattern side

● PNR Circuit Board

Scale: 90/100

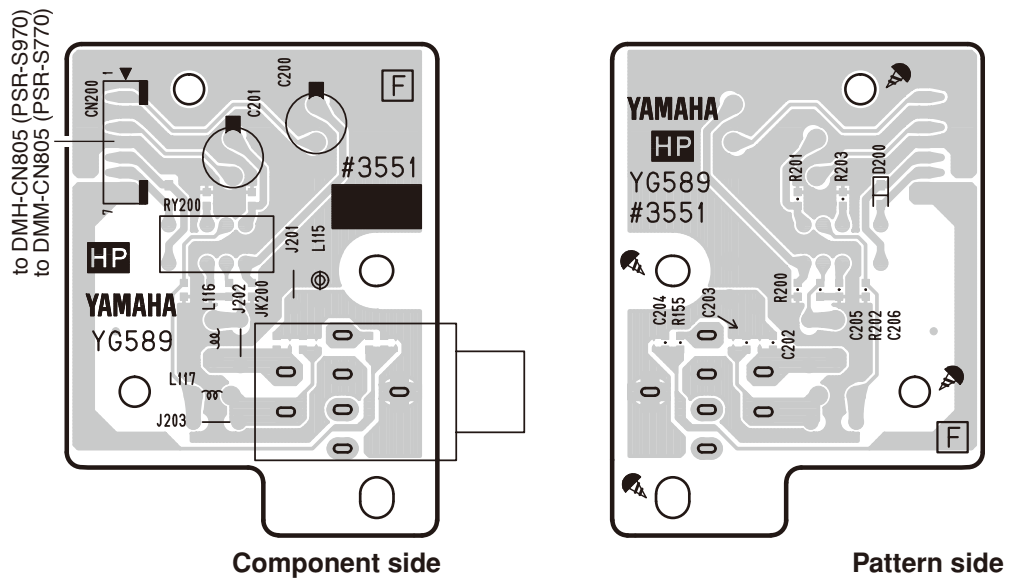


Component side

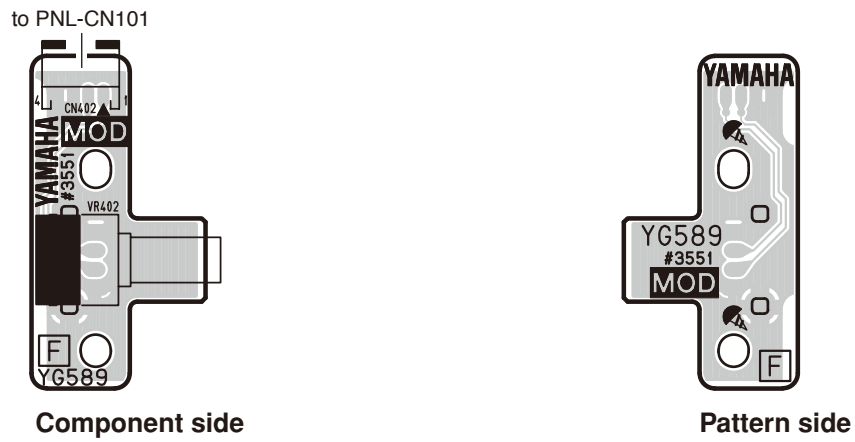


Pattern side

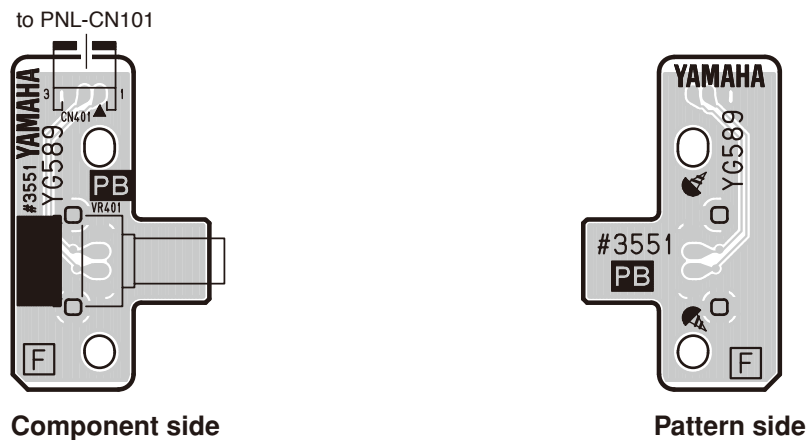
• HP Circuit Board



• MOD Circuit Board

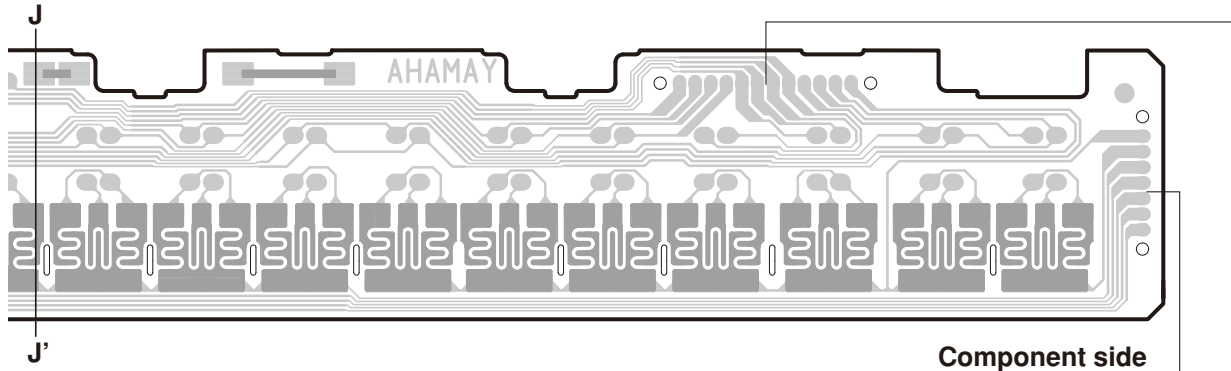
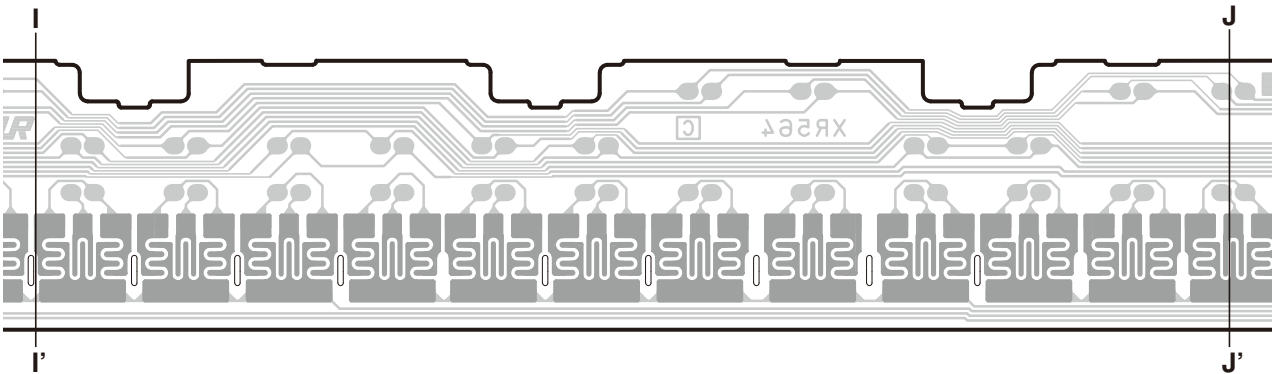
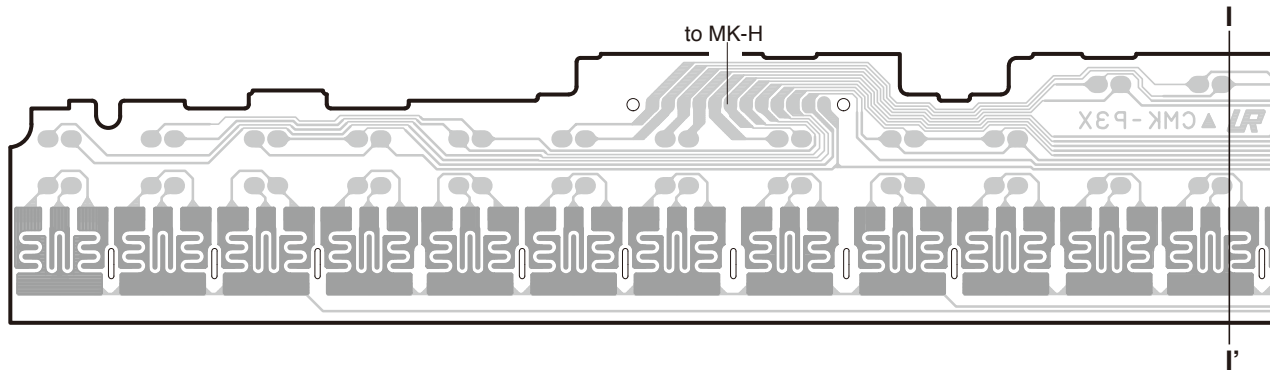


• PB Circuit Board



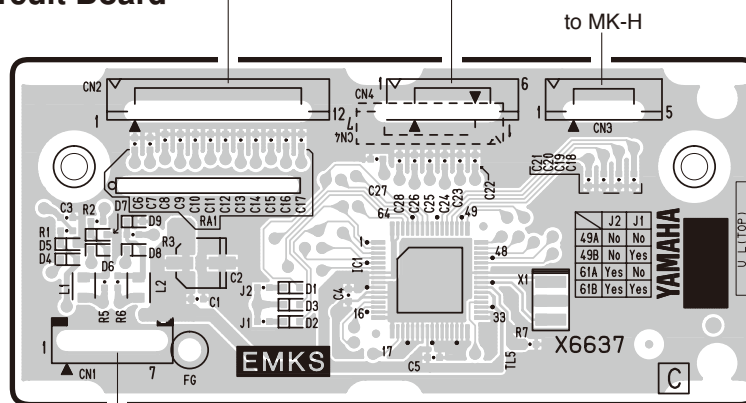
● MK-L Circuit Board

Scale: 90/100



Component side

● EMKS61A Circuit Board



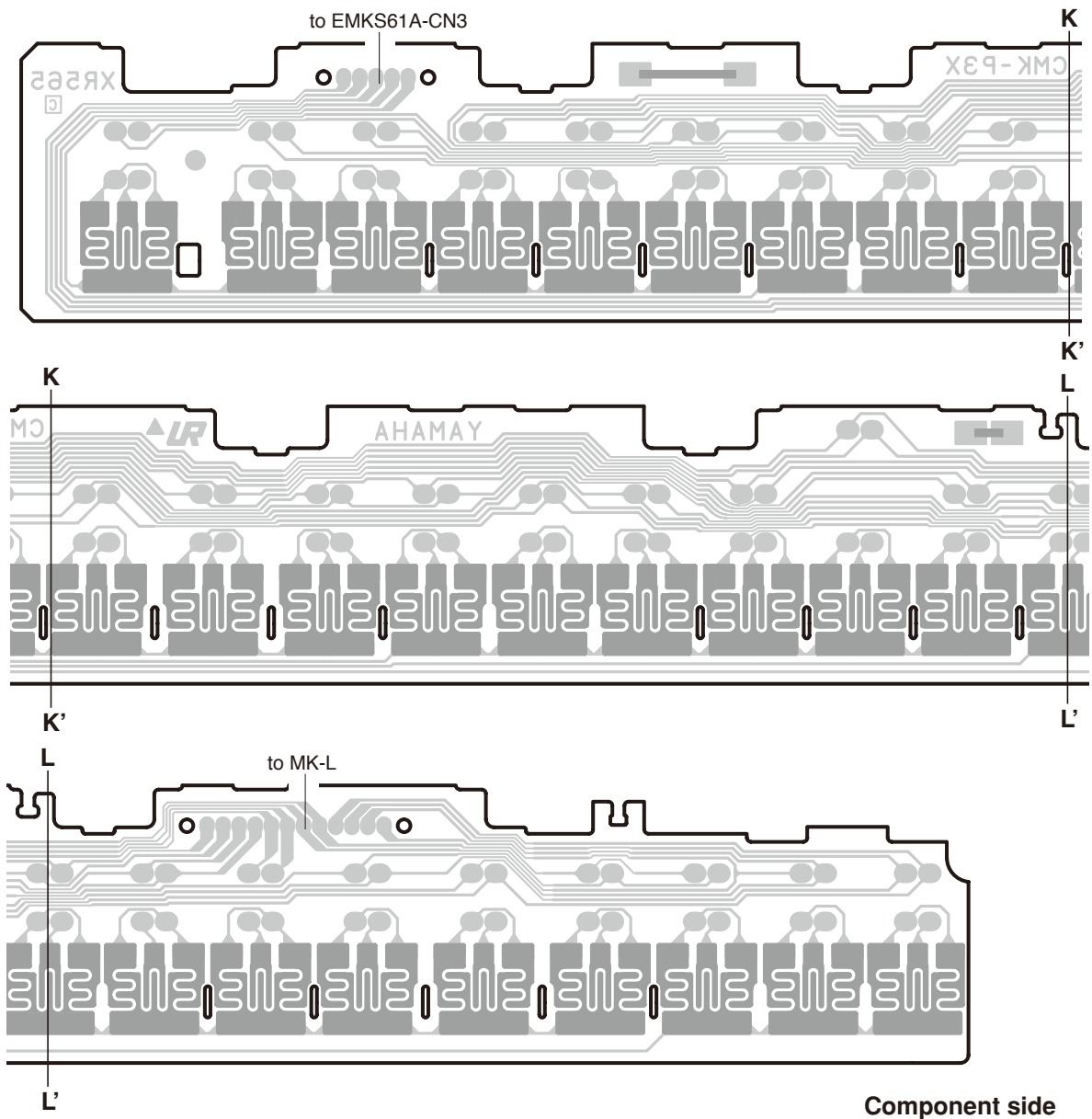
Component side

to DMM-CN003 (PSR-S770)
to DMH-CN003 (PSR-S970)

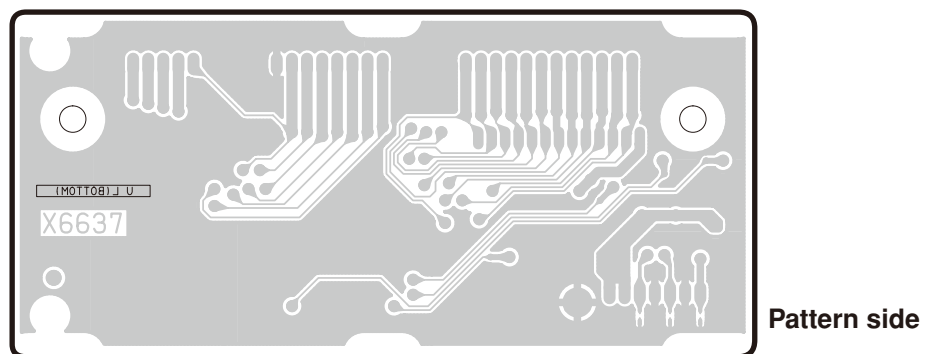
EMKS61A: 2NA-WF31010
MK-L: 2NA-VV58380

● MK-H Circuit Board

Scale: 90/100



● EMKS61A Circuit Board



■ TEST PROGRAM

** If you execute Test No. 81 Factory Set, the setting data and user data will be lost. Be sure to save these data for backup in advance. (See page 64.)*

1. Measurement condition

1-1. Environment

Perform tests under following conditions.

Ordinary temperature (5°C to 40°C)

Ordinary humidity (20% to 90%)

If the test results deviate from the test standard range, however, re-test under such conditions as the ordinary temperature (5°C to 40°C) and ordinary humidity (30% to 90% relative humidity).

1-2. Power voltage

Use PA-300C for the AC adaptor.

The AC power should be 50Hz or 60Hz and the capacity should be 500VA or more.

The voltage should be $\pm 10\%$ of the rating voltage of the adaptor being used.

1-3. Measuring instrument

Make sure that the instruments used for inspections have enough accuracy and precision.

Use the instruments with more than 1M-ohms input impedance.

- Level meter (using JIS-C filter)
- Frequency counter (should be capable of measuring to three places of decimals)
- Oscilloscope
- Oscillator

1-4. Test jig

Following jigs are required for testing.

- MIDI cable
- USB cable (A-B type)
- USB flash drive
- Foot controller (FC7)
- Stereo mini-plug cable (for AUX IN)
- Monaural phone plug cable (for MIC/GUITAR INPUT jack)
- RGB input display

1-5. Terminal condition

Unless otherwise specified, take measurement at the PHONES jack. (Use a stereo plug.)

PHONES : Install a measuring plug (L/R ch: 33-ohms load)

AUX IN : Install a measuring plug

OUTPUT [L/L+R]/[R] : Install a measuring plug (L/R ch: 10k-ohms load)

FOOT PEDAL [1]/[2]: Connect the foot controller (FC7)

1-6. Control condition

Unless otherwise specified, set control knobs as follows.

MASTER VOLUME : Max

Set others in the default state when the power is turned on.

1-7. Measurement unit

0 dBu = 0.775 Vrms

2. Test mode

2-1. Starting Up Test mode

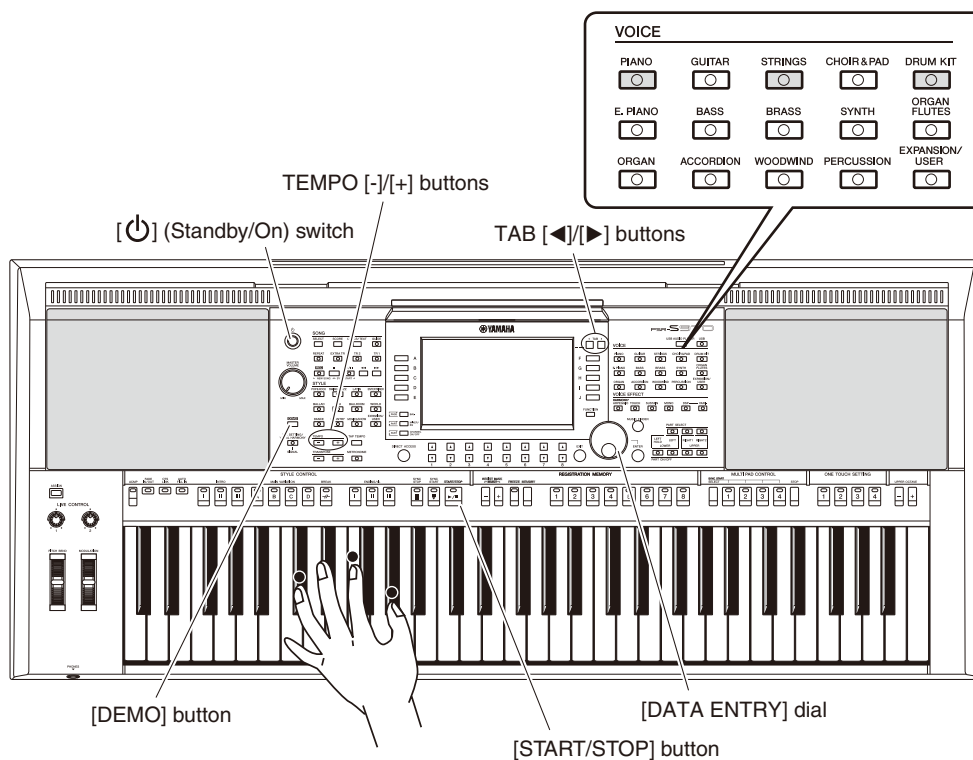
There are two methods to start up the Test mode.

Method 1

- 1) While pressing keys [C#2], [F2], [G#2] (C#2 major chord) simultaneously, turn on the [⏻] (Standby/On) switch.
- 2) When Test mode started successfully, “TEST” is shown on the LCD.

Method 2

- 1) While pressing the buttons [PIANO], [STRINGS] and [DRUM KIT] simultaneously, turn on the [⏻] (Standby/On) switch.
- 2) When Test mode started successfully, “TEST” is shown on the LCD.



2-2. Selection/execution of Test items

- 1) Select an item with the TEMPO [-]/[+] buttons or [DATA ENTRY] dial.
 - * When selecting a test item, the first item (No. 001) can be switched to the last item (No. 083) by pressing the TEMPO [-] button or turning the [DATA ENTRY] dial counterclockwise. Similarly, the last item (No. 083) can be returned to the first item (No. 001) by pressing the TEMPO [+] button or turning the [DATA ENTRY] dial clockwise.
- 2) Press the [START/STOP] button to execute the test item. For details, refer to the explanation page for each Test Program item.

2-3. If the test result shows “OK”

To return to the display of test item selection, press the [START/STOP] button.

* Test item the result of which was OK is shown with an asterisk (*) at the left of the name.

2-4. If the test result shows “NG”

To return to the display of test item selection, press the [DEMO] button or the lowest key.

3. Test program list

LCD display	Test items and judging conditions
001 : Version	<p>Indicates the model name, designated country information and each ROM version (*.**).</p> <p>1) Press the [START/STOP] button, and the versions are shown on the LCD.</p> <p>PSR-S770</p> <p>Model Name : PSR-S770 (E) Main Prog ROM : *.* * Wave Data ROM : *.* * Hardware ID : * * * * * * * * * * Confirm that an 11 digit alphanumeric is shown.</p> <p>PSR-S970</p> <p>Model Name : PSR-S970 (E) Main Prog ROM : *.* * Wave Data ROM : *.* * NAND Data ROM : *.* * Hardware ID : * * * * * * * * * * Confirm that an 11 digit alphanumeric is shown.</p> <p>2) Switch the pages with the TAB [◀] [▶] buttons as the menu contains two pages.</p> <p>PSR-S770</p> <p>Main Boot : *.* * Main Program : *.* * Bitmap1 : *.* * Contents1 : *.* * Wave1 : *.* *</p> <p>PSR-S970</p> <p>Main Boot : *.* * Main Program : *.* * Bitmap1 : *.* * Contents1 : *.* * Wave1 : *.* * Audio Style : *.* *</p> <p>3) Press the [START/STOP] button to exit the TEST item.</p>
002 : Memory Check1 All	<p>Executes the simplified check of all the memories (test No. 003 to 009) at one time. (It will take 6 seconds.)</p> <p>1) Press the [START/STOP] button to start the test. OK: OK NG: The same message will be shown as tests No. 003 to 009.</p> <p>2) Confirm that “OK” is shown on the LCD.</p> <p>3) Press the [START/STOP] button to exit the TEST item.</p> <p>If the result is OK: tests No. 003 to 009 can be skipped. If the result is NG: the test stops when any problem is found. To check details, execute the test from No. 003 to 009.</p>
003 : ROM Check1	<p>Executes the simplified check of the ROM connected to the CPU bus.</p> <p>1) Press the [START/STOP] button to start the test. OK: OK NG: MAIN PROG ROM (IC* * *) NG</p> <p>2) Confirm that “OK” is shown on the LCD.</p> <p>3) Press the [START/STOP] button to exit the TEST item.</p>

LCD display	Test items and judging conditions
004 : NAND ROM Check1 (PSR-S970 only)	Executes the simplified check of the NAND ROM connected to the CPU bus. 1) Press the [START/STOP] button to start the test. OK: OK NG: NAND ROM (IC * * *) NG 2) Confirm that “ OK ” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
005 : RAM Check1	Executes the simplified check of the RAM connected to the CPU bus. 1) Press the [START/STOP] button to start the test. OK: OK NG: MAIN SDRAM (IC * * *, * * *) NG 2) Confirm that “ OK ” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
006 : Backup ROM Check1	Executes the simplified check of the Backup ROM. (It will take about 4 seconds.) 1) Press the [START/STOP] button to start the test. OK: OK NG: BACKUP (IC * * *) NG 2) Confirm that “ OK ” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
007 : Wave ROM Check1	Executes the simplified check of the Wave ROM. 1) Press the [START/STOP] button to start the test. OK: OK NG: Wave (IC * * *, * * *) NG 2) Confirm that “ OK ” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
008 : Wave RAM Check1	Executes the simplified check of the Wave RAM. 1) Press the [START/STOP] button to start the test. OK: OK NG: Wave RAM (IC * * *) NG 2) Confirm that “ OK ” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
009 : Effect RAM Check1	Executes the simplified check of the Effect RAM. 1) Press the [START/STOP] button to start the test. OK: OK NG: Effect 1 TG1 (IC * * *) NG 2) Confirm that “ OK ” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
012 : IRQ Check	Checks whether the IRQ and DREQ communication between the Main CPU and SWP70 is executed properly or not. 1) Press the [START/STOP] button to start the test. OK: OK NG: NG (IRQ *) 2) Confirm that “ OK ” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
014 : Pitch Check	Checks whether the output from this instrument is correct pitch or not. 1) Connect the frequency counter to the PHONES jack at either L or R. 2) Set the [MASTER VOLUME] control to the maximum position. 3) Press the [START/STOP] button to produce the A3 sine wave sound. 4) Measure the frequency and confirm that the measured value is 440.943Hz ± 0.2Hz. 5) Press the [START/STOP] button to stop the sound and to exit the TEST item.

LCD display	Test items and judging conditions
015 : Output R Check	<p>Checks each output level from the R channel of the jacks.</p> <ol style="list-style-type: none"> 1) Connect the level meter to an output jack. 2) Set the [MASTER VOLUME] control to the maximum position. 3) Press the [START/STOP] button to produce the C5 sine wave sound. 4) Measure the output level and confirm that the measured values are within the specified range. [PHONES] (33Ω load) PHONES L: -56.0 dBu or less PHONES R: -0.34 ± 2 dBu [OUTPUT] (10kΩ load) L/L+R: -60.0 dBu or less R: $+5.3 \pm 2$ dBu <p><i>* When disconnecting the plug from the OUTPUT R jack, the sound is produced from OUTPUT L/L+R jack.</i></p> <p><i>* When disconnecting the plug from the PHONES jack, the sound is produced from the speaker.</i></p> <ol style="list-style-type: none"> 5) Press the [START/STOP] button to stop the sound and to exit the TEST item.
016 : Output L Check	<p>Checks each output level from the L channel of the jacks.</p> <ol style="list-style-type: none"> 1) Connect the level meter to an output jack. 2) Set the [MASTER VOLUME] control to the maximum position. 3) Press the [START/STOP] button to produce the C5 sine wave sound. 4) Measure the output level and confirm that the measured values are within the specified range. [PHONES] (33Ω load) PHONES L: -0.34 ± 2 dBu PHONES R: -56.0 dBu or less [OUTPUT] (10kΩ load) L/L+R: $+5.3 \pm 2$ dBu R: -60.0 dBu or less <p><i>* When disconnecting the plug from the PHONES jack, the sound is produced from the speaker.</i></p> <ol style="list-style-type: none"> 5) Press the [START/STOP] button to stop the sound and to exit the TEST item.
017 : EQ Low Check (PSR-S770 only)	<p>Checks the low-frequency sound.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to produce the C1 sine wave sound. 2) Press the [START/STOP] button to stop the sound and to exit the TEST item.
018 : EQ Mid Check (PSR-S770 only)	<p>Checks the middle-frequency sound.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to produce the C4 sine wave sound. 2) Press the [START/STOP] button to stop the sound and to exit the TEST item.
019 : EQ High Check (PSR-S770 only)	<p>Checks the high-frequency sound.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to produce the C7 sine wave sound. 2) Press the [START/STOP] button to stop the sound and to exit the TEST item.
020 : MultiAMP Low Check (PSR-S970 only)	<p>Checks whether the multi-amplifier on the LOW frequency side work properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to produce the 1kHz sine wave sound. 2) Check that the sound is produced from the right and left woofers. 3) Press the [START/STOP] button to stop the sound and to exit the TEST item.
021 : MultiAMP Hight Check (PSR-S970 only)	<p>Checks whether the multi-amplifier on the HIGH frequency side work properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to produce the D#7 sine wave sound. 2) Check that the sound is produced from the right and left tweeters. 3) Press the [START/STOP] button to stop the sound and to exit the TEST item.
022 : SP MUTE Check	<p>Checks whether the SP MUTE for the Speakers works properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to produce the C5 sine wave sound. “OFF” is shown on the LCD. 2) Press the TAB [▶] button to activate the SP MUTE circuit. “ON” is shown on the LCD and the speakers are muted. 3) Press the TAB [◀] button to cancel the SP MUTE circuit. “OFF” is shown on the LCD and the C5 sound is produced. 4) Press the [START/STOP] button to stop the sound and to exit the TEST item. <p>Caution: While this test is executed, connection/disconnection of the headphone is not detected. (Sound comes out of the speaker even if the headphone is connected.)</p>

LCD display	Test items and judging conditions
023 : DAC MUTE Check	<p>Checks whether the DAC MUTE for the DAC IC's output works properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to produce the C5 sine wave sound. "OFF" is shown on the LCD. 2) Press the TAB [▶] button to activate the DAC MUTE circuit. "ON" is shown on the LCD, and all the output from the speakers, PHONES, and OUTPUT jacks are muted. 3) Press the TAB [◀] button to cancel the DAC MUTE circuit. "OFF" is shown on the LCD and the C5 sound is produced. 4) Press the [START/STOP] button to stop the sound and to exit the TEST item.
024 : MUTE Check	<p>Checks whether the MUTE for all outputs works properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to produce the C5 sine wave sound. "OFF" is shown on the LCD. 2) Press the TAB [▶] button to activate the MUTE circuit. "ON" is shown on the LCD, and all the output from the speakers, PHONES, and OUTPUT jacks are muted. 3) Press the TAB [◀] button to cancel the MUTE circuit. At this time, check that the muting relay on the HP circuit board works properly. "OFF" is shown on the LCD and the C5 sound is produced. 4) Press the TAB [▶] button to activate the MUTE circuit. 5) Connect the level meter to the OUTPUT jacks. 6) Measure the output levels and confirm that the measured values are within the specified range. [OUTPUT] (10kΩ load) L/L+R: -35.0 dBu or less R: -35.0 dBu or less 7) Press the [START/STOP] button to stop the sound and to exit the TEST item. <p>Caution: When checking the output of the speakers, do not insert any plug to the PHONES jack.</p>
025 : Emergency Circuit Check	<p>Checks whether the Fail-Safe Circuit for digital volume control works properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to produce the A3 sine wave sound. "OFF" is shown on the LCD. 2) Press the TAB [▶] button to activate the Fail-Safe Circuit function. "ON" is shown on the LCD, and all the output from the speakers, PHONES, and OUTPUT jacks are muted. 3) Press the TAB [◀] button to cancel the Fail-Safe Circuit function. At this time, check that the muting relay on the HP circuit board works properly. "OFF" is shown on the LCD and the A3 sound is produced. 4) Press the [START/STOP] button to stop the sound and to exit the TEST item. <p>Caution: When checking the output of the speakers, do not insert any plug to the PHONES jack.</p>

LCD display	Test items and judging conditions
026 : SIOF Check	<p>Checks whether the two SIOF circuits, which are defined Line-A and Line-B in this test, are connected properly. Also, checks whether the control ports of AUDIO clock are connected properly.</p> <ol style="list-style-type: none"> Press the [START/STOP] button to start the test of Line-A and AUDIO-clock ports. “Line-A” is shown on the LCD. If there is no problem, the beep of the A3 sine wave will be repeated from the L channel. The sound is produced and “ON” appears on the LCD while the clock turns ON state. The sound stops and “OFF” appears on the LCD while the clock turns OFF state. If there is a problem, the A3 sound is produced continuously and “ON” appears on the LCD, or no sound is there and “OFF” appears on the LCD. Press the TAB [▶] button to start the test of Line-B and AUDIO-clock ports. “Line-B” is shown on the LCD. If there is no problem, the beep of the C5 sine wave will be repeated from the R channel. The sound is produced and “ON” appears on the LCD while the clock turns ON state. The sound stops and “OFF” appears on the LCD while the clock turns OFF state. If there is a problem, the C5 sound is produced continuously and “ON” appears on the LCD, or no sound is there and “OFF” appears on the LCD. Press the [START/STOP] button to stop the sound and to exit the TEST item. <p>NOTE: You can check the Line-A and Line-B alternatively by using the TAB [◀ ▶] buttons.</p>
028 : AUX-IN Check	<p>Checks whether the AUX IN jack works properly or not.</p> <ol style="list-style-type: none"> Press the [START/STOP] button. “Not Inserted” is shown on the LCD. Connect the plug to the AUX IN jack. “Inserted” is shown on the LCD. Disconnect the plug. “Not Inserted” is shown on the LCD. Press the [START/STOP] button to exit the TEST item.
030 : MIC Check	<p>Checks whether the MIC/GUITAR INPUT jack works properly or not.</p> <ol style="list-style-type: none"> Press the [START/STOP] button. “Not Inserted” is shown on the LCD. Connect the plug to the MIC/GUITAR INPUT jack. “Inserted” is shown on the LCD. Disconnect the plug. “Not Inserted” is shown on the LCD. Press the [START/STOP] button to exit the TEST item.
031 : SW, LED Check	<p>Checks whether each panel button with its LED (if available) works properly or not.</p> <ol style="list-style-type: none"> Press the [START/STOP] button to start the test. “Push * * *” is shown on the LCD. The LCD shows you the should-be-pressed button. NOTE: The “* * *” means each button name. Press the button specified on the LCD one by one. If the correct button is pressed, “* * * On” is shown on the LCD and the sound of the note assigned to the pressed button will be produced. Also, the LED (if available) lights. Regarding what note and LED are assigned, refer to the Switch Test Sequence on page 51. <p>NOTE:</p> <ul style="list-style-type: none"> “NG [pressed button name] On” will be shown on the LCD if the wrong button is pressed. “Over Two Sw” will be shown on the LCD if two or more buttons are pressed. <ol style="list-style-type: none"> After all the buttons are completed and “Dial DOWN 50” appears on the LCD, check the [DATA ENTRY] dial. Rotate the dial counter-clockwise until “Dial UP xx” appears on the LCD. Rotate the dial clockwise until “End” appears on the LCD. Press the [START/STOP] button to exit the TEST item. <p>NOTE: You can exit this test by pressing the lowest key. Also, you can exit the test by pressing the [ASSIGN] button after the button is tested.</p>

LCD display	Test items and judging conditions
032 : All LED On	<p>Checks whether all the LED lamps light properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. All the LED lamps are turned on, and “- -” is shown on the LCD. 2) Confirm that all the LED lamps light. 3) Press the [START/STOP] button to exit the TEST item and to turn off all the LED.
033 : Red LED On	<p>Checks whether all the red LED lamps light properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. All the red LED lamps are turned on, and “- -” is shown on the LCD. 2) Confirm that all the red LED lamps light. 3) Press the [START/STOP] button to exit the TEST item and to turn off all the red LED.
034 : Green LED On	<p>Checks whether all the green LED lamps light properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. All the green LED lamps are turned on, and “- -” is shown on the LCD. 2) Confirm that all the green LED lamps light. 3) Press the [START/STOP] button to exit the TEST item and to turn off all the green LED.
037 : All LCD On	<p>Checks whether all the LCD dots are turned on (black) properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. 2) Check that all the dots of the LCD are turned on (black). 3) Press the [START/STOP] button to exit the TEST item.
038 : All LCD Off	<p>Checks whether all the LCD dots are turned off (white) properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. 2) Check that all the dots of the LCD are turned off (white). 3) Press the [START/STOP] button to exit the TEST item.
040 : LCD Pattern Check	<p>Checks whether the color pattern of the LCD is shown properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. 2) Use the TAB [◀][▶] buttons to call up the color patterns. Check whether the following patterns are shown on the LCD properly or not. <ul style="list-style-type: none"> • RGB • Rainbow • Flicker Noise (horizontal) • Flicker Noise (vertical) 3) Press the [START/STOP] button to exit the TEST item.
041 : LCD Backlight Off Check	<p>Checks whether the LCD backlight is turned ON/OFF properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. The LCD backlight is turned off. 2) Use the TAB [◀][▶] buttons to turn on/off the LCD Backlight. 3) Press the [START/STOP] button to exit the TEST item.
042 : Main Volume Check	<p>Checks whether the MASTER VOLUME control works properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button. “Main Volume MIN xx” is shown on the LCD. 2) Rotate the [MASTER VOLUME] control to the minimum position. The value: 0 to 255 is shown on the LCD depending on the [MASTER VOLUME] control position. When the minimum value is detected, “Main Volume MAX 0” is shown on the LCD. 3) Rotate the [MASTER VOLUME] control to the maximum position. When the maximum value is detected, “OK 255” is shown on the LCD. 4) Press the [START/STOP] button to exit the TEST item.

LCD display	Test items and judging conditions
044 : Pitch Bend Wheel Check	<p>Checks whether the PITCH BEND wheel control works properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button. “Pitch Bend Up 128” is shown on the LCD. 2) Roll the [Pitch Bend] wheel upward to the maximum position to produce the G3 beep. “Pitch Bend Down 255” is shown on the LCD. 3) Roll the [Pitch Bend] wheel downward to the minimum position to produce the C3 beep. “Pitch Bend Center 0” is shown on the LCD. 4) Release the [Pitch Bend] wheel to the center position to produce the C4 beep. “OK 128” is shown on the LCD. 5) Press the [START/STOP] button to exit the TEST item.
045 : Modulation Wheel Check	<p>Checks whether the MODULATION Wheel control works properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button. “Modulation Up xxx” is shown on the LCD. 2) Roll the [MODULATION] wheel upward to the maximum position to produce the G3 beep. “Modulation Down 255” is shown on the LCD. 3) Roll the [MODULATION] wheel downward to the minimum position to produce the C4 beep. “OK” is shown on the LCD. 4) Press the [START/STOP] button to exit the TEST item.
046 : LiveControl Check	<p>Checks whether the Live Control [1]/[2] knobs work properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button. “LiveControl 1 MIN (xx)” is shown on the LCD. 2) Rotate the [LIVE CONTROL 1] control to the minimum position. The value: 0 to 255 is shown on the LCD depending on the [LIVE CONTROL 1] control position. When the minimum value is detected, “LiveControl 1 MAX (0)” is shown on the LCD. 3) Rotate the [LIVE CONTROL 1] control to the maximum position. When the maximum value is detected, “LiveControl 1 Center (255)” is shown on the LCD. 4) Rotate the [LIVE CONTROL 1] control to the center position. When the center value is detected, “LiveControl 2 MIN (xx)” is shown on the LCD. 5) Rotate the [LIVE CONTROL 2] control to the minimum position. When the minimum value is detected, “LiveControl 2 MAX (0)” is shown on the LCD. 6) Rotate the [LIVE CONTROL 2] control to the maximum position. When the maximum value is detected, “LiveControl 2 Center (255)” is shown on the LCD. 7) Rotate the [LIVE CONTROL 2] control to the center position. When the center value is detected, “OK” is shown on the LCD. 8) Press the [START/STOP] button to exit the TEST item.
053 : Pedal1 Check	<p>Checks whether the Foot Pedal plugged into FOOT PEDAL1 jack works properly or not.</p> <ol style="list-style-type: none"> 1) Connect the foot pedal (FC7) to FOOT PEDAL 1 jack. 2) Press the [START/STOP] button to start the test. “Pedal1 Down” is shown on the LCD. When the pedal is not detected, “No Pedal” is shown on the LCD. 3) Press the pedal to the maximum position to produce the C3 sound. “Pedal1 Up” is shown on the LCD. 4) Press the pedal to the minimum position to produce the G3 sound. “Pedal1 Out” is shown on the LCD. 5) Disconnect the pedal from the FOOT PEDAL 1 jack to produce the C4 sound. “OK” is shown on the LCD. 6) Press the [START/STOP] button to exit the TEST item.

LCD display	Test items and judging conditions
054 : Pedal2 Check	<p>Checks whether the Foot Pedal plugged into FOOT PEDAL2 jack works properly or not.</p> <ol style="list-style-type: none"> 1) Connect the foot pedal (FC7) to FOOT PEDAL 2 jack. 2) Press the [START/STOP] button to start the test. “Pedal2 Down” is shown on the LCD. When the pedal is not detected, “No Pedal” is shown on the LCD. 3) Press the pedal to the maximum position to produce the C3 sound. “Pedal2 Up” is shown on the LCD. 4) Press the pedal to the minimum position to produce the G3 sound. “Pedal2 Out” is shown on the LCD. 5) Disconnect the pedal from the FOOT PEDAL 2 jack to produce the C4 sound. “OK” is shown on the LCD. 6) Press the [START/STOP] button to exit the TEST item.
056 : MIDI Check	<p>Checks whether the MIDI terminals work properly or not.</p> <ol style="list-style-type: none"> 1) Connect the single MIDI cable to MIDI IN and OUT terminals. 2) Press the [START/STOP] button to start the test. If no problem is found, the C4 sine wave sound is produced for a second and “OK” is shown on the LCD. If any problem is found, “NG” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item. 4) Disconnect the MIDI cable from the terminals.
059 : RGB Out Check (PSR-S970 only)	<p>Checks whether the RGB terminal work properly or not.</p> <ol style="list-style-type: none"> 1) Connect the appropriate display monitor to [RGB] terminal. 2) Press the [START/STOP] button to start the test. Confirm that the display monitor displays the RGB color bar code and RGB text. 3) Press the [START/STOP] button to exit the TEST item. 4) Disconnect the RGB cable from the terminals.
060 : USB to Device/Host Check	<p>Checks whether the USB [TO DEVICE] and USB [TO HOST] terminals work properly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button first. “Connect Device-Host” is shown on the LCD. 2) Using the USB cable, connect the USB [TO DEVICE] terminal and USB [TO HOST] terminal. Confirm that “OK” is shown on the LCD and the C4 sound is produced for a second. 3) Press the [START/STOP] button to exit the TEST item. 4) Disconnect the USB cable.
061 : USB Storage Device Check	<p>Checks whether or not the instrument can access the USB memory device connected to the USB [TO DEVICE] terminal.</p> <ol style="list-style-type: none"> 1) Insert the USB flash drive and press the [START/STOP] button. 2) Confirm that “OK” is shown on the LCD. If no media is inserted, “NO DISK” will be displayed. If the media is unformatted, “UNFORMAT DISK” will be displayed. If the media is protected, “PROTECT DISK” will be displayed. If failed in reading/writing, “NG” will be displayed. 3) Press the [START/STOP] button to exit the TEST item. 4) Disconnect the USB flash memory.
063 : Keyboard Type Check	<p>Checks whether this instrument can recognize the keyboard type correctly or not.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. 2) Confirm that “OK (16M)” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
067 : ROM Check2	<p>Executes the complete check of the ROM. (It will take about 10 seconds.)</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. OK: OK NG: MAIN PROG ROM (IC* * *) NG 2) Confirm that “OK” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.

LCD display	Test items and judging conditions
068 : NAND ROM Check2 (PSR-S970 only)	Executes the complete check of the NAND ROM. (It will take about 5 minutes.) <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. OK: OK NG: NAND ROM (IC * * *) NG 2) Confirm that “OK” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
069 : RAM Check2	Executes the complete check of the RAM. <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. OK: OK NG: MAIN SDRAM (IC * * *, * * *) NG 2) Confirm that “OK” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
070 : Backup ROM Check2	Executes the complete check of the Backup ROM. (It will take about 1 minute 30 seconds.) <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. OK: OK NG: BACKUP (IC * * *) NG 2) Confirm that “OK” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item. <p>NOTE: The power must not be turned off while testing, because the original data will be re-written at the end of this test.</p>
071 : Wave ROM Check2	Executes the complete check of the Wave ROM. (It will take about 1 minutes 30 seconds.) <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. OK: OK NG: Wave TG (IC * * *, * * *) NG 2) Confirm that “OK” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
072 : Wave RAM Check2	Executes the complete check of the Wave RAM. (It will take about 20 seconds.) <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. OK: OK NG: Wave RAM (IC * * *) NG 2) Confirm that “OK” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
073 : Effect RAM Check2	Executes the complete check of the Effect RAM . (It will take about 30 seconds.) <ol style="list-style-type: none"> 1) Press the [START/STOP] button to start the test. OK: OK NG: Effect 1 TG1 (IC * * *) NG 2) Confirm that “OK” is shown on the LCD. 3) Press the [START/STOP] button to exit the TEST item.
074 : Panel PCB Check 1	This test is for the PNC, PNL, and PNR circuit boards only to check whether each panel button with its LED (if available) works properly or not. Refer to the “031: SW, LED Check” for details as the operation is similar. Regarding what note and LED are assigned, refer to the Panel PCB division check 1 on page 52.
075 : Panel PCB Check 2	This test is for the PNM and PNS circuit boards only to check whether each panel button with its LED (if available) works properly or not. Refer to the “031: SW, LED Check” for details as the operation is similar. Regarding what note and LED are assigned, refer to the Panel PCB division check 2 on page 53.

LCD display	Test items and judging conditions
081 : Factory Set	<p>To initialize all the backup areas to restore factory default. The actual Factory Set has not been executed yet at this timing, but will be executed next time the power is turned on.</p> <p>Caution: Note that all user data will be cleared. Before executing the factory reset procedure, be sure to save the important data as a backup in the USB flash drive. (Refer to page 64)</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button to restore initial data and “OK” is shown on the LCD. 2) Press the [START/STOP] button to exit from this test. <p>* When the power is turned on next time, “Force Format Mode” is shown on the LCD. After restarting, the instrument return to the play mode and the main screen appears.</p> <p>NOTE: Never turn off the power until the Main display appears. Doing so may cause a malfunction. (It will take about 20 seconds.)</p>
083 : Test Exit	<p>Let’s you exit from the Test mode to the normal mode.</p> <ol style="list-style-type: none"> 1) Press the [START/STOP] button. The Test mode will end, then the PSR-S770/PSR-S970 will be restarted. <p>NOTE: Never turn off the power until the Main display appears. Doing so may cause a malfunction.</p>

4. Other Inspections

4-1. AUX IN

Take measurement with the Test Program [028: AUX-IN Check] selected.

Check that each terminal output is as shown in the table below when a signal is inputted into AUX IN.

INPUT \ OUTPUT	PHONES (33 Ω load)	
	L	R
AUX IN L: Sine wave (1 kHz, 0 dBu) AUX IN R: No input	+1.6 ± 2 dBu	-56.0 dBu or less
AUX IN L: No input AUX IN R: Sine wave (1 kHz, 0 dBu)	-56.0 dBu or less	+1.6 ± 2 dBu

4-2. Noise Level Check

- 1) Do not connect anything to the [AUX IN] and [MIC/GUITAR INPUT] jacks.
- 2) Connect the level meter (using the JIS-C filter) to the L/R [PHONES] and L/R [OUTPUT] jacks.
- 3) Turn the master volume to the maximum position.
- 4) Measure the output voltage and confirm that the measured values are within specification as follows:

<PHONES>

L: -90.0 dBu or less

R: -90.0 dBu or less

<OUTPUT>

L: -90.0 dBu or less

R: -90.0 dBu or less

4-3. MIC/GUITAR INPUT

- 1) Take measurement with the Test Program [030: MIC Check] selected.
- 2) Do not connect anything to the [AUX IN] jack.
- 3) Connect the level meter (using the JIS-C filter) to the L/R [PHONES]. (33 ohms load)
- 4) Turn the master volume to the maximum position.
- 5) Set the [MIC GUITAR] switch to "GUITAR" and set the [GAIN] knob to the maximum position.
- 6) Apply a 1kHz sine wave -30dBu to the [MIC/GUITAR INPUT] jack via a 100kΩ resistor.
- 7) Measure the output voltage and confirm that the measured values are within specification as follows:

<PHONES>

L: +0.9 ± 3 dBu

R: +0.9 ± 3 dBu

- 8) Set the [MIC GUITAR] switch to "MIC."
- 9) Measure the output voltage and confirm that the measured values are within specification as follows:

<PHONES>

L: -15.6 ± 3 dBu

R: -15.6 ± 3 dBu

- 10) Set the [GAIN] knob to the minimum position.
- 11) Measure the output voltage and confirm that the measured values are within specification as follows:

<PHONES>

L: -49.1 ± 3 dBu

R: -49.1 ± 3 dBu

● Switch Test Sequence

Turn	SW Name/Display	LED made to turn on	Note No.
1	SELECT	-	C2
2	SCORE	-	C#2
3	LYRICS/TEXT	-	D2
4	GUIDE	GUIDE	D#2
5	REPEAT	REPEAT	E2
6	EXTRA TR	EXTRA TR (RED, GREEN)	F2
7	TR 2	TR2 LEFT (RED, GREEN)	F#2
8	TR 1	TR1 RIGHT (RED, GREEN)	G2
9	REC	REC	G#2
10	STOP	-	A2
11	PLAY/PAUSE	PLAY/PAUSE (RED, GREEN)	A#2
12	REW	-	B2
13	FF	-	C3
14	POP & ROCK	POP & ROCK	C#3
15	SWING & JAZZ	SWING & JAZZ	D3
16	LATIN	LATIN	D#3
17	ENTERTAINER	ENTERTAINER	E3
18	BALLAD	BALLAD	F3
19	R & B	R & B	F#3
20	BALLROOM	BALLROOM	G3
21	WORLD	WORLD	G#3
22	DEMO	-	A3
23	DANCE	DANCE	A#3
24	COUNTRY	COUNTRY	B3
25	MOVIE & SHOW	MOVIE & SHOW	C4
26	EXPANSION USER	EXPANSION USER	C#4
27	MIC SETTING (PSR-S770)	MIC SETTING (RED, GREEN)	D4
	MIC SET & VOC HARM (PSR-S970)	MIC SET & VOC HARM (RED, GREEN)	
28	TEMPO -	-	D#4
29	TEMPO +	-	E4
30	TAP TEMPO	-	F4
31	TRANSPOSE -	-	F#4
32	TRANSPOSE +	-	G4
33	METRONOME	METRONOME	G#4
34	ASSIGN	-	A4
35	ACMP	ACMP	A#4
36	FADE IN/OUT	FADE IN/OUT	B4
37	OTS LINK	OTS LINK	C5
38	AUTO FILL IN	AUTO FILL IN	C#5
39	INTRO I	INTRO 1 (RED, GREEN)	D5
40	INTRO II	INTRO 2 (RED, GREEN)	D#5
41	INTRO III	INTRO 3 (RED, GREEN)	E5
42	MAIN A	MAIN A (RED, GREEN)	F5
43	MAIN B	MAIN B (RED, GREEN)	F#5
44	MAIN C	MAIN C (RED, GREEN)	G5
45	MAIN D	MAIN D (RED, GREEN)	G#5
46	BREAK	BREAK (RED, GREEN)	A5
47	ENDING/rit. I	ENDING/rit. 1 (RED, GREEN)	A#5
48	ENDING/rit. II	ENDING/rit. 2 (RED, GREEN)	B5
49	ENDING/rit. III	ENDING/rit. 3 (RED, GREEN)	C2
50	SYNC STOP	SYNC STOP	C#2
51	SYNC START	SYNC START	D2
52	START/STOP	START/STOP (RED, GREEN)	D#2
53	A	-	E2
54	B	-	F2
55	C	-	F#2
56	D	-	G2
57	E	-	G#2
58	BALANCE	-	A2
59	MIXING CONSOLE	-	A#2
60	CHANNEL ON/OFF	-	B2
61	DIRECT ACCESS	-	C3

Turn	SW Name/Display	LED made to turn on	Note No.
62	TAB <	-	C#3
63	TAB >	-	D3
64	F	-	D#3
65	G	-	E3
66	H	-	F3
67	I	-	F#3
68	J	-	G3
69	FUNCTION	-	G#3
70	1-U	-	A3
71	2-U	-	A#3
72	3-U	-	B3
73	4-U	-	C4
74	5-U	-	C#4
75	6-U	-	D4
76	7-U	-	D#4
77	8-U	-	E4
78	1-L	-	F4
79	2-L	-	F#4
80	3-L	-	G4
81	4-L	-	G#4
82	5-L	-	A4
83	6-L	-	A#4
84	7-L	-	B4
85	8-L	-	C5
86	EXIT	-	C#5
87	USB AUDIO PLAYER	-	D5
88	USB	USB	D#5
89	PIANO	PIANO	E5
90	GUITAR	GUITAR	F5
91	STRINGS	STRINGS	F#5
92	CHOIR & PAD	CHOIR & PAD	G5
93	DRUM KIT	DRUM KIT	G#5
94	E.PIANO	E.PIANO	A5
95	BASS	BASS	A#5
96	BRASS	BRASS	B5
97	SYNTH	SYNTH	C2
98	ORGAN FLUTES	ORGAN FLUTES	C#2
99	ORGAN	ORGAN	D2
100	ACCORDION	ACCORDION	D#2
101	WOODWIND	WOODWIND	E2
102	PERCUSSION	PERCUSSION	F2
103	EXPANSION USER	EXPANSION USER	F#2
104	HARMONY / ARPEGGIO	HARMONY / ARPEGGIO	G2
105	TOUCH	TOUCH	G#2
106	SUSTAIN	SUSTAIN	A2
107	MONO	MONO	A#2
108	DSP	DSP	B2
109	VARI.	VARI.	C3
110	MUSIC FINDER	-	C#3
111	PART SELECT LEFT	PART SELECT LEFT	D3
112	PART SELECT RIGHT1	PART SELECT RIGHT1	D#3
113	PART SELECT RIGHT2	PART SELECT RIGHT2	E3
114	ENTER	-	F3
115	LEFT HOLD	LEFT HOLD	F#3
116	PART ON/OFF LEFT	PART ON/OFF LEFT	G3
117	PART ON/OFF RIGHT1	PART ON/OFF RIGHT1	G#3
118	PART ON/OFF RIGHT2	PART ON/OFF RIGHT2	A3
119	REGIST BANK -	-	A#3
120	REGIST BANK +	-	B3
121	FREEZE	-	C4
122	MEMORY	-	C#4
123	REGIST. MEMORY 1	REGIST. MEMORY 1 (RED, GREEN)	D4
124	REGIST. MEMORY 2	REGIST. MEMORY 2 (RED, GREEN)	D#4

Turn	SW Name/Display	LED made to turn on	Note No.
125	REGIST. MEMORY 3	REGIST. MEMORY 3 (RED, GREEN)	E4
126	REGIST. MEMORY 4	REGIST. MEMORY 4 (RED, GREEN)	F4
127	REGIST. MEMORY 5	REGIST. MEMORY 5 (RED, GREEN)	F#4
128	REGIST. MEMORY 6	REGIST. MEMORY 6 (RED, GREEN)	G4
129	REGIST. MEMORY 7	REGIST. MEMORY 7 (RED, GREEN)	G#4
130	REGIST. MEMORY 8	REGIST. MEMORY 8 (RED, GREEN)	A4
131	M.PAD SELECT	-	A#4
132	M.PAD 1	M.PAD 1 (RED, GREEN)	B4
133	M.PAD 2	M.PAD 2 (RED, GREEN)	C5
134	M.PAD 3	M.PAD 3 (RED, GREEN)	C#5
135	M.PAD 4	M.PAD 4 (RED, GREEN)	D5
136	M.PAD STOP	-	D#5
137	OTS 1	OTS 1 (RED, GREEN)	E5
138	OTS 2	OTS 2 (RED, GREEN)	F5
139	OTS 3	OTS 3 (RED, GREEN)	F#5
140	OTS 4	OTS 4 (RED, GREEN)	G5
141	UPPER OCTAVE -	-	G#5
142	UPPER OCTAVE +	-	A5

● Panel PCB division check 1
(PNC, PNL and PNR circuit boards)

Turn	SW Name/Display	LED made to turn on	Note No.
1	REGIST. MEMORY 8	REGIST. MEMORY 8 (RED, GREEN)	G#4
2	REGIST. MEMORY 7	REGIST. MEMORY 7 (RED, GREEN)	G4
3	REGIST. MEMORY 6	REGIST. MEMORY 6 (RED, GREEN)	F#4
4	REGIST. MEMORY 5	REGIST. MEMORY 5 (RED, GREEN)	F4
5	REGIST. MEMORY 4	REGIST. MEMORY 4 (RED, GREEN)	E4
6	REGIST. MEMORY 3	REGIST. MEMORY 3 (RED, GREEN)	D#4
7	REGIST. MEMORY 2	REGIST. MEMORY 2 (RED, GREEN)	D4
8	REGIST. MEMORY 1	REGIST. MEMORY 1 (RED, GREEN)	C#4
9	MEMORY	-	C4
10	FREEZE	-	B3
11	REGIST BANK +	-	A#3
12	REGIST BANK -	-	A3
13	START/STOP	START/STOP (RED, GREEN)	D2
14	SYNC START	SYNC START	C#2
15	SYNC STOP	SYNC STOP	C2
16	ENDING/rit. III	ENDING/rit. 3 (RED, GREEN)	B5
17	ENDING/rit. II	ENDING/rit. 2 (RED, GREEN)	A#5
18	ENDING/rit. I	ENDING/rit. 1 (RED, GREEN)	A5
19	BREAK	BREAK (RED, GREEN)	G#5
20	MAIN D	MAIN D (RED, GREEN)	G5
21	MAIN C	MAIN C (RED, GREEN)	F#5
22	MAIN B	MAIN B (RED, GREEN)	F5
23	MAIN A	MAIN A (RED, GREEN)	E5
24	INTRO III	INTRO 3 (RED, GREEN)	D#5
25	INTRO II	INTRO 2 (RED, GREEN)	D5
26	INTRO I	INTRO 1 (RED, GREEN)	C#5
27	AUTO FILL IN	AUTO FILL IN	C5
28	OTS LINK	OTS LINK	B4
29	FADE IN/OUT	FADE IN/OUT	A#4
30	ACMP	ACMP	A4
31	UPPER OCTAVE +	-	G#5
32	UPPER OCTAVE -	-	G5
33	OTS 4	OTS 4 (RED, GREEN)	F#5
34	OTS 3	OTS 3 (RED, GREEN)	F5
35	OTS 2	OTS 2 (RED, GREEN)	E5
36	OTS 1	OTS 1 (RED, GREEN)	D#5
37	M.PAD STOP	-	D5
38	M.PAD 4	M.PAD 4 (RED, GREEN)	C#5
39	M.PAD 3	M.PAD 3 (RED, GREEN)	C5
40	M.PAD 2	M.PAD 2 (RED, GREEN)	B4
41	M.PAD 1	M.PAD 1 (RED, GREEN)	A#4
42	M.PAD SELECT	-	A4

● Panel PCB division check 2
(PNM and PNS circuit boards)

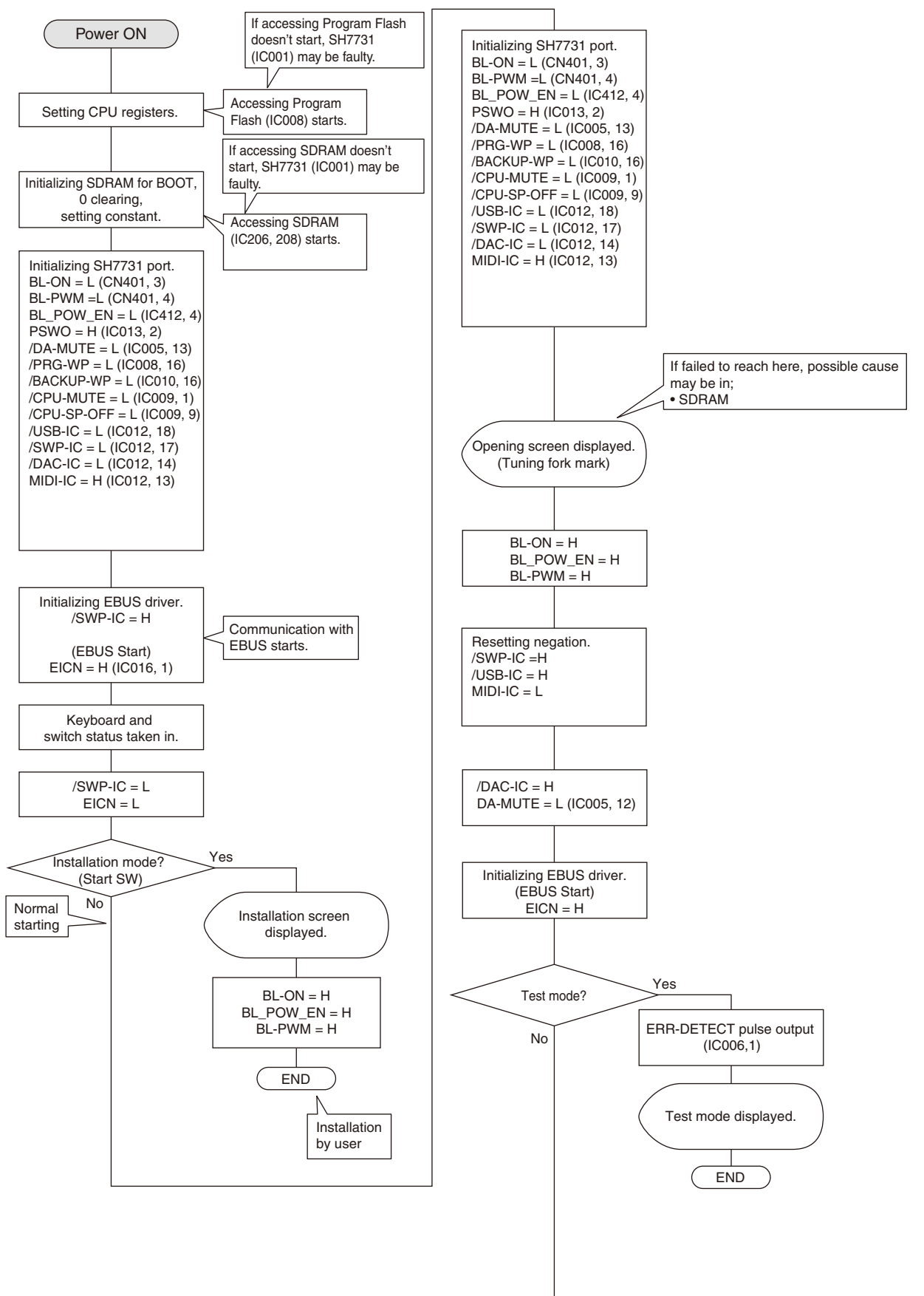
Turn	SW Name/Display	LED made to turn on	Note No.
1	SELECT	-	C2
2	SCORE	-	C#2
3	LYRICS/TEXT	-	D2
4	GUIDE	GUIDE	D#2
5	REPEAT	REPEAT	E2
6	EXTRA TR	EXTRA TR (RED, GREEN)	F2
7	TR 2	TR2 LEFT (RED, GREEN)	F#2
8	TR 1	TR1 RIGHT (RED, GREEN)	G2
9	REC	REC	G#2
10	STOP	-	A2
11	PLAY/PAUSE	PLAY/PAUSE (RED, GREEN)	A#2
12	REW	-	B2
13	FF	-	C3
14	POP & ROCK	POP & ROCK	C#3
15	SWING & JAZZ	SWING & JAZZ	D3
16	LATIN	LATIN	D#3
17	ENTERTAINER	ENTERTAINER	E3
18	BALLAD	BALLAD	F3
19	R & B	R & B	F#3
20	BALLROOM	BALLROOM	G3
21	WORLD	WORLD	G#3
22	DEMO	-	A3
23	DANCE	DANCE	A#3
24	COUNTRY	COUNTRY	B3
25	MOVIE & SHOW	MOVIE & SHOW	C4
26	EXPANSION USER	EXPANSION USER	C#4
27	MIC SETTING (PSR-S770)	MIC SETTING (RED, GREEN)	D4
	MIC SET & VOC HARM (PSR-S970)	MIC SET & VOC HARM (RED, GREEN)	
28	TEMPO -	-	D#4
29	TEMPO +	-	E4
30	TAP TEMPO	-	F4
31	TRANPOSE -	-	F#4
32	TRANPOSE +	-	G4
33	METRONOME	METRONOME	G#4
34	A	-	D#2
35	B	-	E2
36	C	-	F2
37	D	-	F#2
38	E	-	G2
39	BALANCE	-	G#2
40	MIXING CONSOLE	-	A2
41	CHANNEL ON/OFF	-	A#2
42	DIRECT ACCESS	-	B2
43	1-U	-	G#3
44	2-U	-	A3
45	3-U	-	A#3
46	4-U	-	B3
47	5-U	-	C4
48	6-U	-	C#4
49	7-U	-	D4
50	8-U	-	D#4
51	1-L	-	E4
52	2-L	-	F4
53	3-L	-	F#4
54	4-L	-	G4

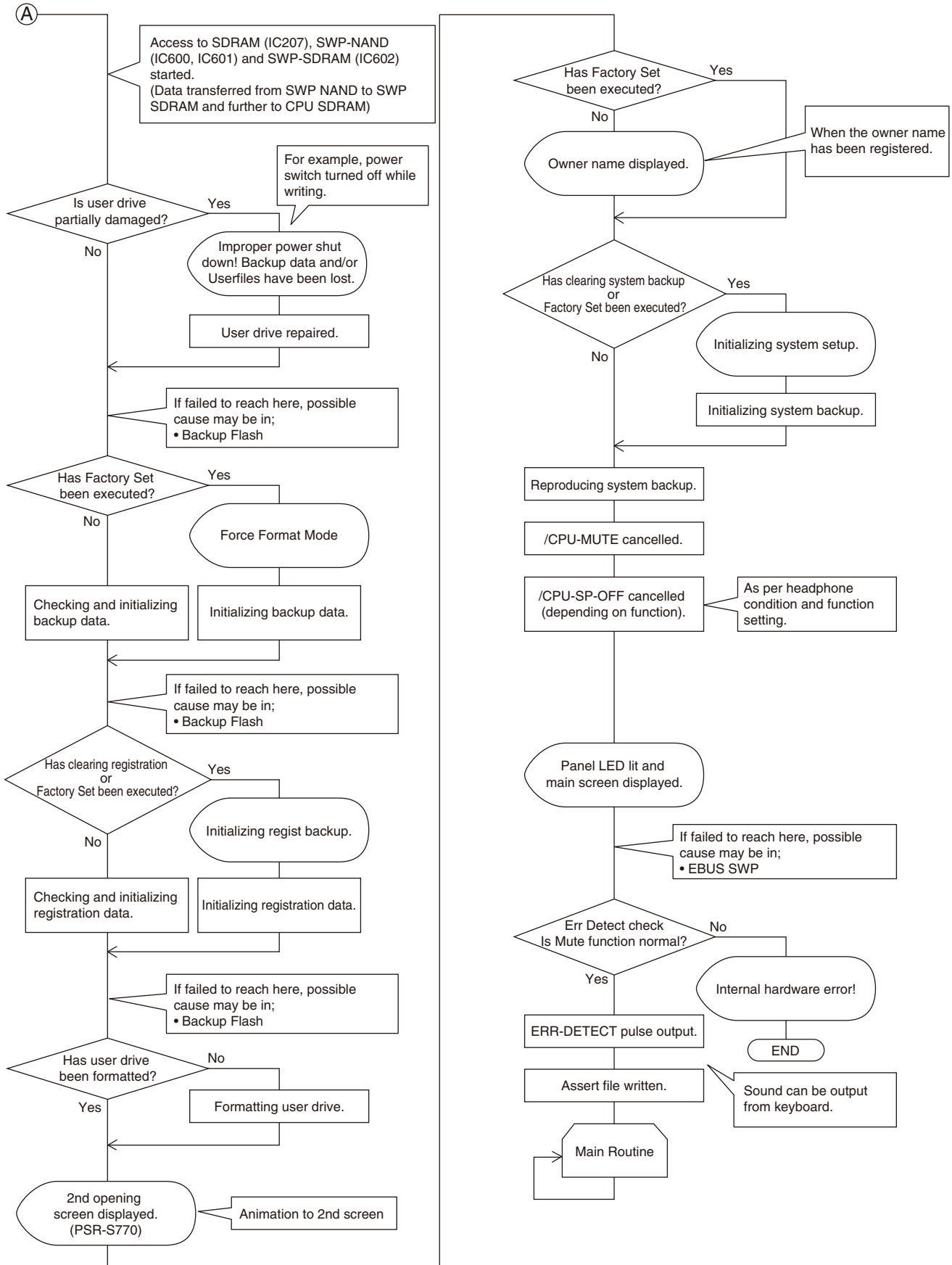
Turn	SW Name/Display	LED made to turn on	Note No.
55	5-L	-	G#4
56	6-L	-	A4
57	7-L	-	A#4
58	8-L	-	B4
59	EXIT	-	C5
60	TAB <	-	C3
61	TAB >	-	C#3
62	F	-	D3
63	G	-	D#3
64	H	-	E3
65	I	-	F3
66	J	-	F#3
67	FUNCTION	-	G3
68	USB AUDIO PLAYER	-	C#5
69	USB	USB	D5
70	PIANO	PIANO	D#5
71	GUITAR	GUITAR	E5
72	STRINGS	STRINGS	F5
73	CHOIR & PAD	CHOIR & PAD	F#5
74	DRUM KIT	DRUM KIT	G5
75	E.PIANO	E.PIANO	G#5
76	BASS	BASS	A5
77	BRASS	BRASS	A#5
78	SYNTH	SYNTH	B5
79	ORGAN FLUTES	ORGAN FLUTES	C2
80	ORGAN	ORGAN	C#2
81	ACCORDION	ACCORDION	D2
82	WOODWIND	WOODWIND	D#2
83	PERCUSSION	PERCUSSION	E2
84	EXPANSION USER	EXPANSION USER	F2
85	HARMONY / ARPEGGIO	HARMONY / ARPEGGIO	F#2
86	TOUCH	TOUCH	G2
87	SUSTAIN	SUSTAIN	G#2
88	MONO	MONO	A2
89	DSP	DSP	A#2
90	VARI.	VARI.	B2
91	MUSIC FINDER	-	C3
92	PART SELECT LEFT	PART SELECT LEFT	C#3
93	PART SELECT RIGHT1	PART SELECT RIGHT1	D3
94	PART SELECT RIGHT2	PART SELECT RIGHT2	D#3
95	ENTER	-	E3
96	LEFT HOLD	LEFT HOLD	F3
97	PART ON/OFF LEFT	PART ON/OFF LEFT	F#3
98	PART ON/OFF RIGHT1	PART ON/OFF RIGHT1	G3
99	PART ON/OFF RIGHT2	PART ON/OFF RIGHT2	G#3
100	ASSIGN	-	A3

■ INITIAL SETTING

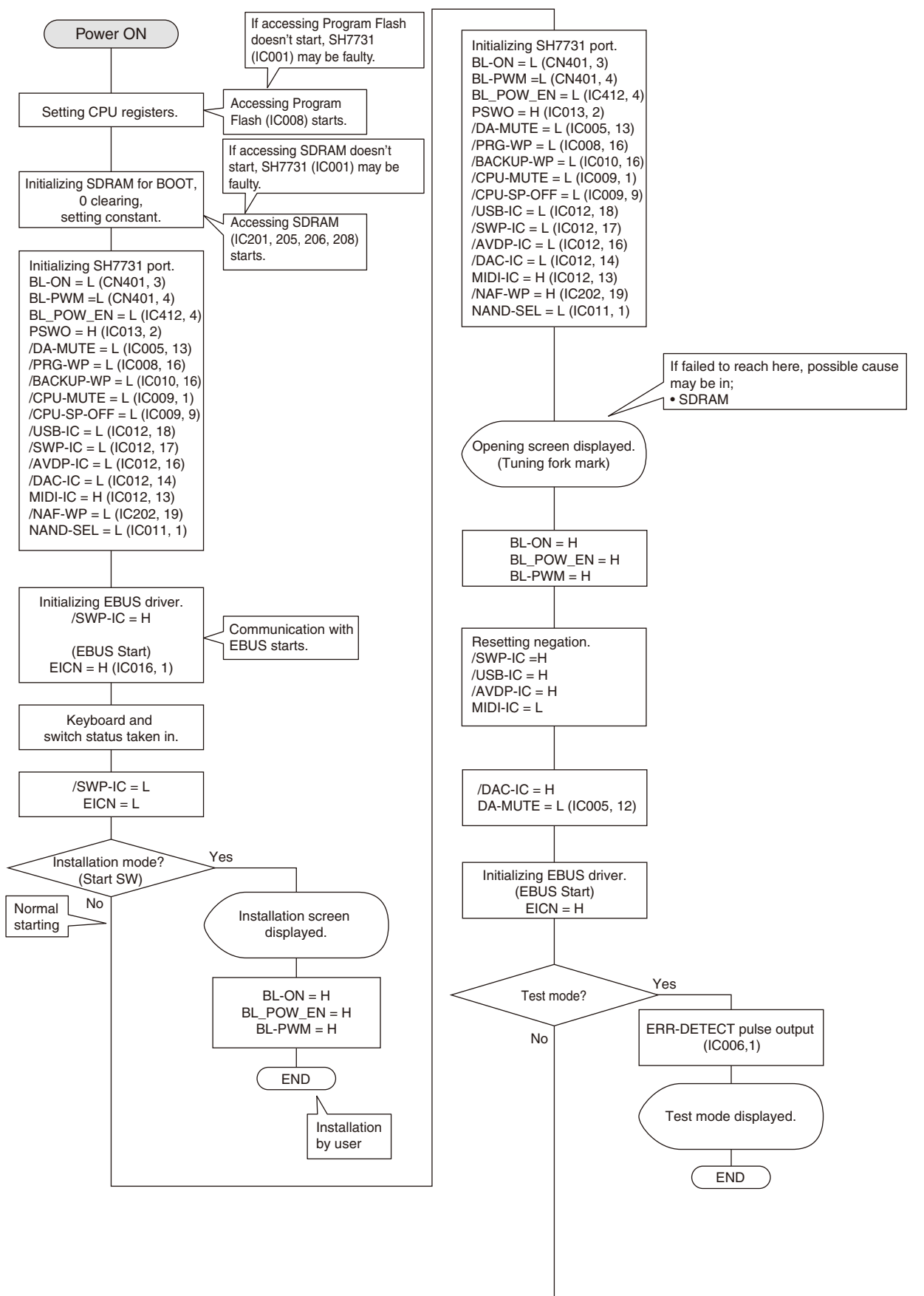
- [MASTER VOLUME] dial: MIN
- LIVE CONTROL 1, 2 knobs: CENTER
- [MODULATION] wheel: MIN
- [GAIN]: MIN
- [MIC/GUITAR]: MIC

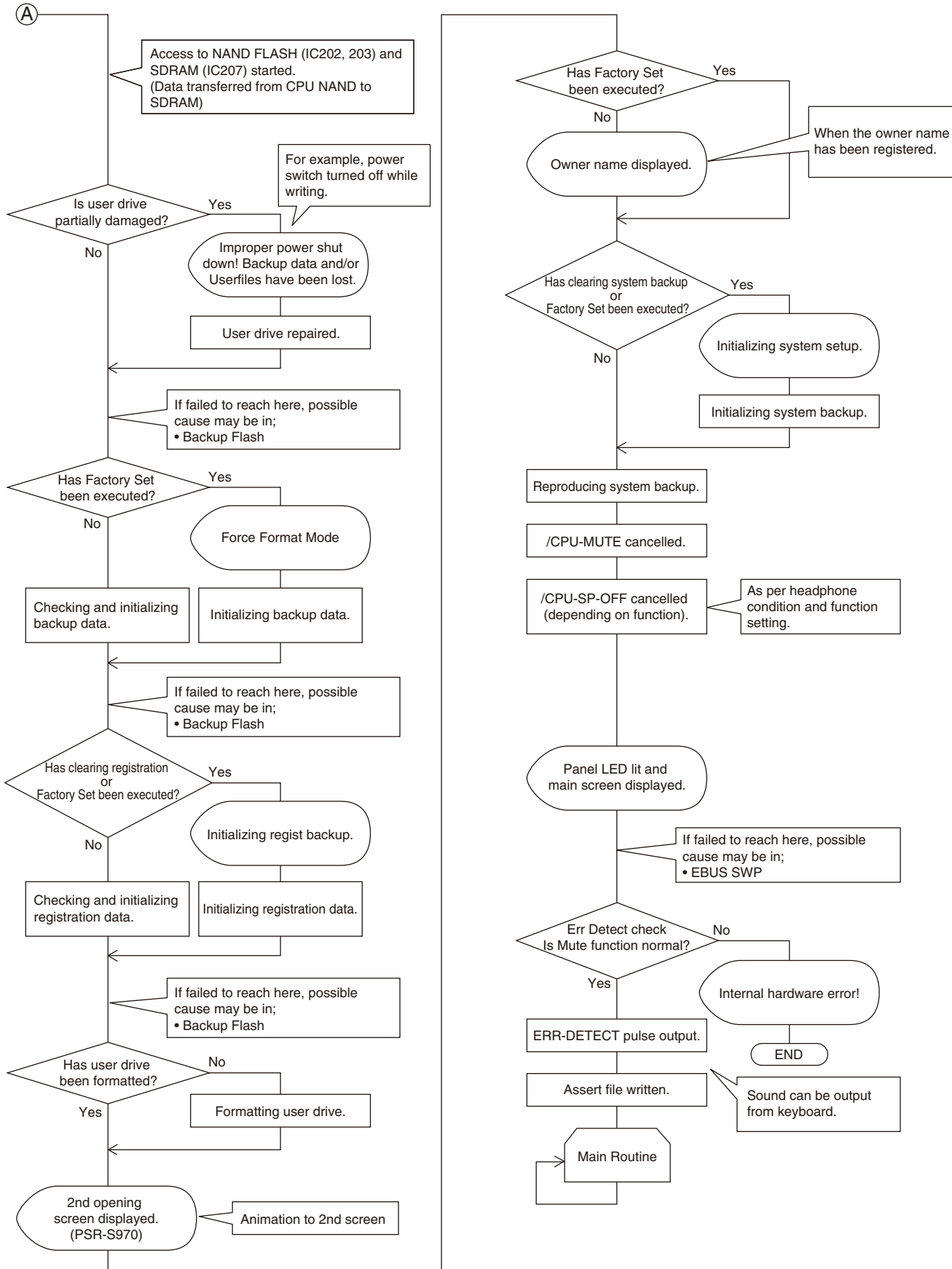
PSR-S770 SYSTEM BOOTING FLOWCHART





PSR-S970 SYSTEM BOOTING FLOWCHART





■ PSR-S770 DMM CIRCUIT BOARD CHECK METHOD

The DMM Circuit Board is provided with test points for service check purposes.
Check the test points on the DMM Circuit Board if the following symptoms appear.

Symptoms and check items

- (1) No LCD display with Power SW ON --> Check items ① to ⑦ sequentially.
(2) No sound or distorted sound --> Check items ① , ⑧ to ⑬ sequentially and OUTPUT check items.

Test Point

NO.	Test Point	Circuit	Judgment criteria	Measured by	Parts with possible defects
①	PV	Power supply for Power amplifier IC	More than 14.0V	Multimeter	TH100 or FT100 (On AJACK circuit board)
②	16V	Power supply for digital circuit	More than 14.0V	Multimeter	TH100 or FT100 (On AJACK circuit board)
③	+5D	5V power for digital circuit	5.0V±0.5V	Multimeter	IC810
④	+3.3D	3.3V power for digital circuit	3.3V±0.3V	Multimeter	IC810
⑤	+1.3D	1.3V power for CPU	1.3V±0.1V	Multimeter	IC209
⑥	+1.0D	1.0V power for TG	1.0V±0.1V	Multimeter	IC606
⑦	RESET	CPU & memory reset signal	3.3V±0.3V	Multimeter	IC004
⑧	12A	12V power for analog circuit	12V±1V	Multimeter	IC100 (On AJACK circuit board)
⑨	5A	5V power for analog circuit	5.0V±0.5V	Multimeter	IC811
⑩	OUTL	AUX output L channel	There shall be audio output without distortion.	Signal Checker	IC801 or IC807
⑪	OUTR	AUX output R channel	There shall be audio output without distortion.	Signal Checker	IC801 or IC807
⑫	HPL	HP output L channel	There shall be audio output without distortion.	Signal Checker	IC800 or IC807
⑬	HPR	HP output R channel	There shall be audio output without distortion.	Signal Checker	IC800 or IC807

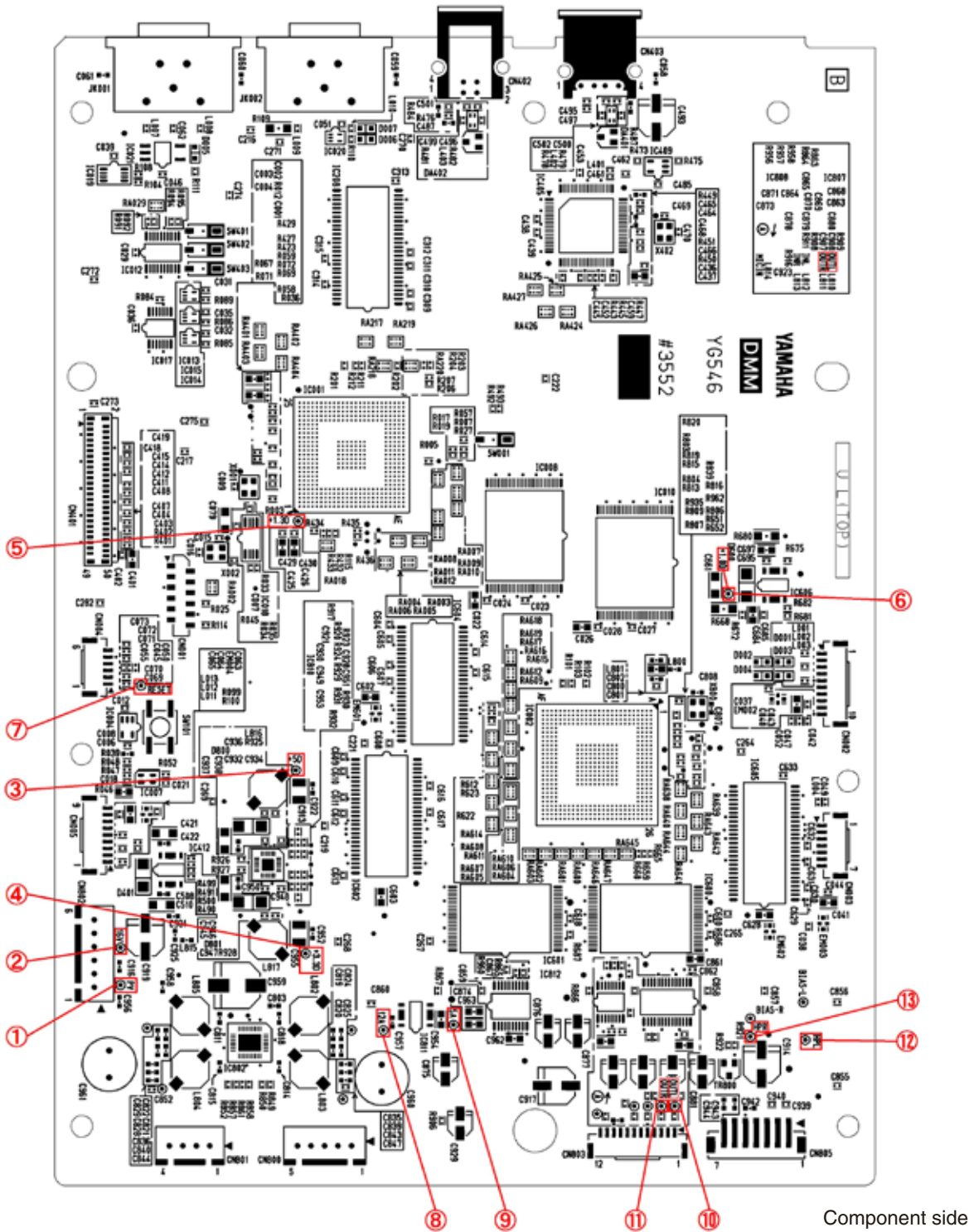
Note1: Use the standard AC adapter PA-300C for check operation.

Output states

NO.	SPEAKER	PHONES	OUTPUT	Parts with possible defects
1	×	×	×	IC001, IC002, IC007 or CPU Error Detect Circuit
2	×	○	○	IC802, SP-/MUTE Signal or HP JACK
3	○	×	×	IC807 or IC805
4	○	×	○	IC800, TR800 or RY200 (On HP circuit board)
5	○	○	×	IC801 or TR103-TR106 (On AJACK circuit board)

Note: "○" mark expresses normalcy and "×" mark expresses a failed state.

DMM Circuit Board (ZN123800)



■ PSR-S970 DMH CIRCUIT BOARD CHECK METHOD

The DMH Circuit Board is provided with test points for service check purposes.
Check the test points on the DMH Circuit Board if the following symptoms appear.

Symptoms and check items

- (1) No LCD display with Power SW ON --> Check items ① to ⑦ sequentially.
(2) No sound or distorted sound --> Check items ①, ⑧ to ⑬ sequentially and OUTPUT check items.

Test Point

NO.	Test Point	Circuit	Judgment criteria	Measured by	Parts with possible defects
①	PV	Power supply for Power amplifier IC	More than 14.0V	Multimeter	TH100 or FT100 (On AJACK circuit board)
②	16V	Power supply for digital circuit	More than 14.0V	Multimeter	TH100 or FT100 (On AJACK circuit board)
③	+5D	5V power for digital circuit	5.0V±0.5V	Multimeter	IC810
④	+3.3D	3.3V power for digital circuit	3.3V±0.3V	Multimeter	IC810
⑤	+1.3D	1.3V power for CPU	1.3V±0.1V	Multimeter	IC209
⑥	+1.0D	1.0V power for TG	1.0V±0.1V	Multimeter	IC606
⑦	RESET	CPU & memory reset signal	3.3V±0.3V	Multimeter	IC004
⑧	12A	12V power for analog circuit	12V±1V	Multimeter	IC100 (On AJACK circuit board)
⑨	5A	5V power for analog circuit	5.0V±0.5V	Multimeter	IC811
⑩	OUTL	AUX output L channel	There shall be audio output without distortion.	Signal Checker	IC801 or IC807
⑪	OUTR	AUX output R channel	There shall be audio output without distortion.	Signal Checker	IC801 or IC807
⑫	HPL	HP output L channel	There shall be audio output without distortion.	Signal Checker	IC800 or IC807
⑬	HPR	HP output R channel	There shall be audio output without distortion.	Signal Checker	IC800 or IC807

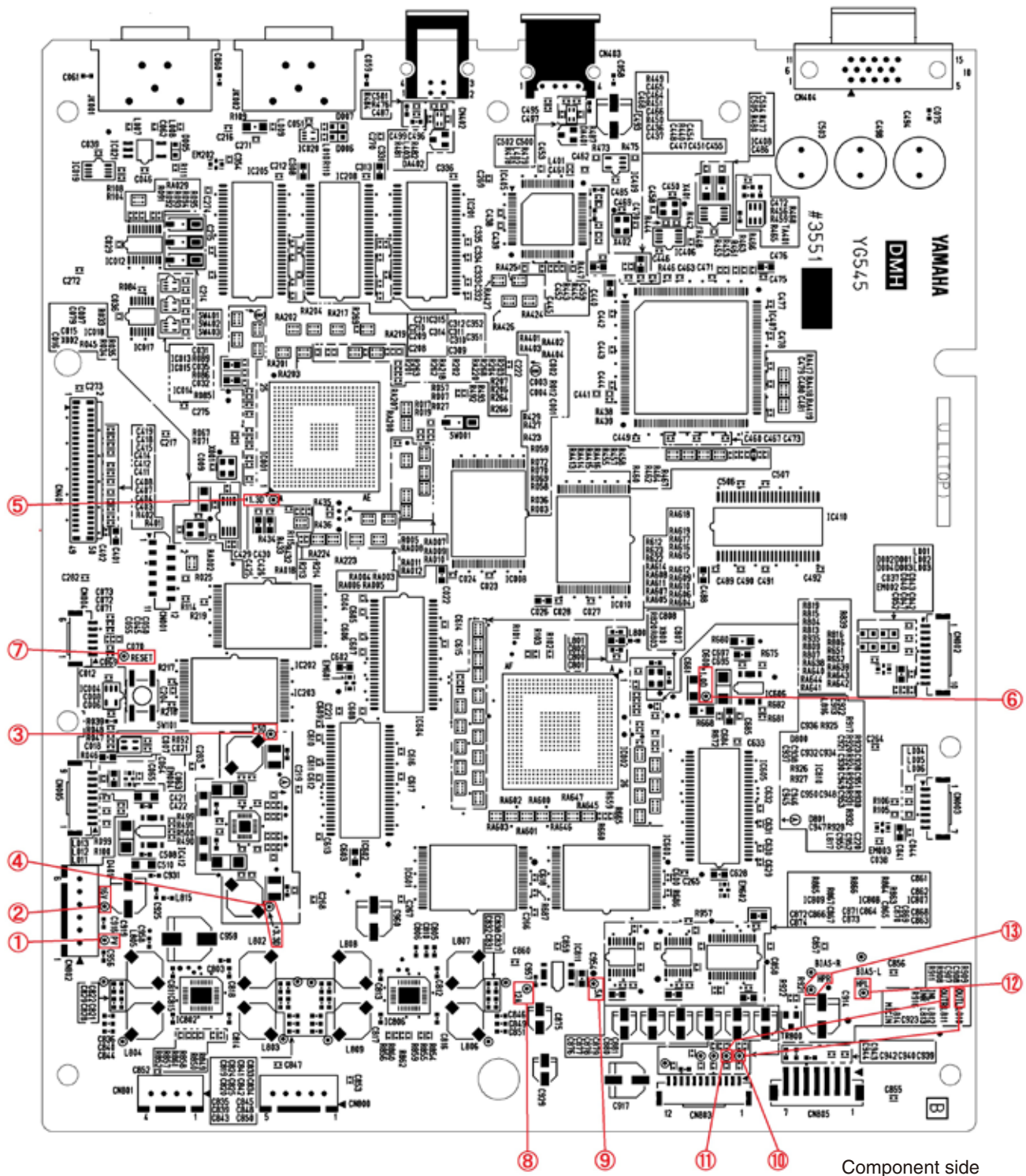
Note1: Use the standard AC adapter PA-300C for check operation.

Output states

NO.	Tweeter	Woofers	PHONES	OUTPUT	Parts with possible defects
1	×	×	×	×	IC001, IC002, IC007 or Error Detect Circuit
2	×	×	○	○	IC001, SP-/MUTE Signal or HP JACK
3	○	×	○	○	IC802
4	×	○	○	○	IC806
5	○	○	×	×	IC807 or IC805
6	○	○	×	○	IC800, TR800 or RY200 (On HP circuit board)
7	○	○	○	×	IC801 or TR103-TR106 (On AJACK circuit board)

Note: "○" mark expresses normalcy and "×" mark expresses a failed state.

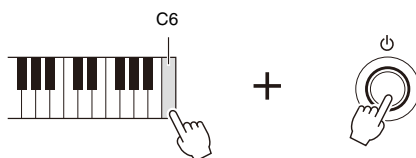
DMH Circuit Board (ZN123700)



Component side

■ RESETTING TO THE FACTORY-PROGRAMMED SETTINGS

While holding the right-most key (C6) on the keyboard, turn the power on. This resets the settings of the entire instrument (referred to as the System Setup parameters) to their factory default settings. Refer to the “Parameter Chart” in the Data List on the website for details about which parameters belong to System Setup.



NOTE

The recorded Songs, Expansion Packs, and other files saved to this instrument are not deleted by this operation.

You can also reset specified settings to the factory default value or delete all files and folders in the USER drive. Call up the operation display: [FUNCTION] → TAB [▶] MENU 2 → [G] SYSTEM → TAB [▶] RESET. For details, refer to the Reference Manual on the website, Chapter 11.

■ DATA BACKUP

You can back up all data saved in the USER drive (except Protected Songs and Expansion Voices/Styles) and all settings of the instrument to a USB flash drive as a single file.

- 1 **Connect a USB flash drive to the [USB TO DEVICE] terminal for the backup destination.**

- 2 **Call up the operation display.**

[FUNCTION] → TAB [▶] MENU 2 → [G] SYSTEM → TAB [◀][▶] BACKUP/RESTORE



- 3 **Press the [G] (BACK UP) button to save the data to the USB flash drive.**

When confirmation messages appear, follow the on-display instructions.

NOTE

You can also back up files in the USER drive, such as Voice, Song, Style, Multi Pad and Registration Memory, by copying them individually to a USB flash drive as desired.

NOTE

You can also back up System settings, MIDI settings, User Effect settings, and Music Finder Records individually as desired. Call up the operation display: [FUNCTION] → TAB [▶] MENU 2 → [G] SYSTEM → TAB [◀][▶] SETUP FILES. For more information, refer to the Reference Manual on the website, Chapter 11.

NOTE

Completing the back up/restore operation may take a few minutes.

Restoring the Backup File

To do this, press the [I] (RESTORE) button in the BACKUP/RESTORE page (see above). When confirmation messages appear, follow the on-display instructions. When the operation is completed, the instrument will be restarted automatically.

NOTICE

Move the Protected Songs (saved to the USER drive) to a USB flash drive before restoring. If the Songs are not moved, the operation deletes the data.

■ VERSION UPGRADE

Download the version upgrade program from the Yamaha official website.


● List of the updating Flash ROM

PSR-S770	Main Program	DMM	IC008
	Wave Data		IC600, IC601
PSR-S970	Main Program	DMH	IC008
	NAND Data		IC202, IC203
	Wave Data		IC600, IC601

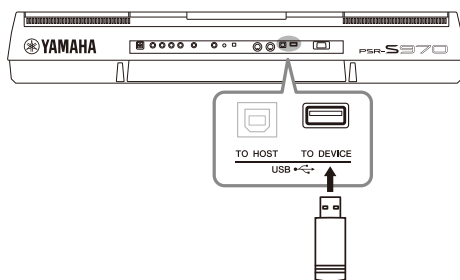
● File name

PSR-S770	PSR-S770SETUP.PRG
PSR-S970	PSR-S970SETUP.PRG

● How to Install

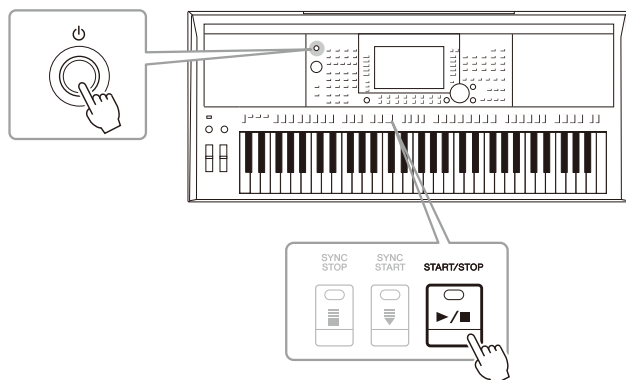
 Never turn the instrument off while installing. It may break the boot Flash ROM device. Particularly, turning off the power immediately after starting installation may cause damage to the boot. If operation still fails even after re-installation, the DMM/DMH circuit board must be replaced. Never pull off the USB flash drive from the instrument while installing.

- 1 Insert the USB flash drive to the instrument.



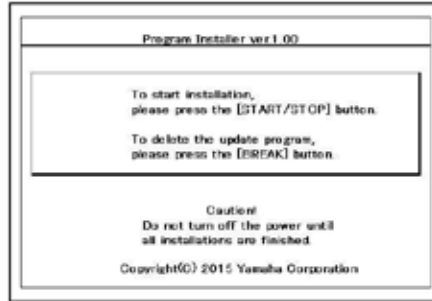
* This figure shows the PSR-S970.

- 2 While holding down the [START/STOP] button, press the [⏻] (Standby/On) switch to start up installation mode.

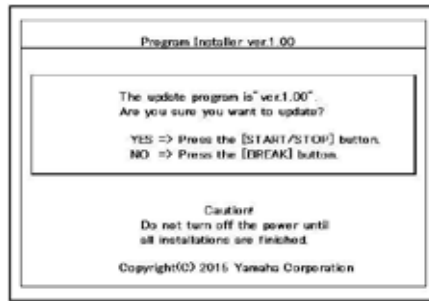


* Follow the display on the LCD for this operation.

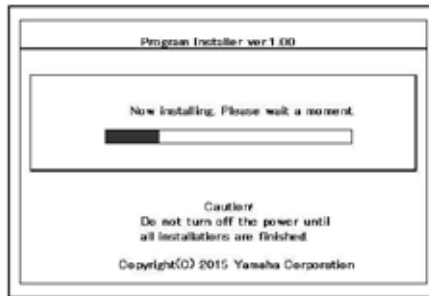
3 Press the [START/STOP] button to start the installations.



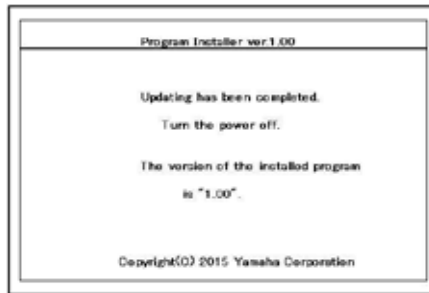
4 Press the [START/STOP] button again.



5 A progress bar for installation will appear.



6 When the installation is complete, the following message appears with a new firmware version.



7 Press the [⏻] (Standby/On) switch to turn the power off. Remove the USB flash drive from the instrument.

DIGITAL WORKSTATION



PARTS LIST

■ CONTENTS

PSR-S770 OVERALL ASSEMBLY	2
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Notes : DESTINATION ABBREVIATIONS

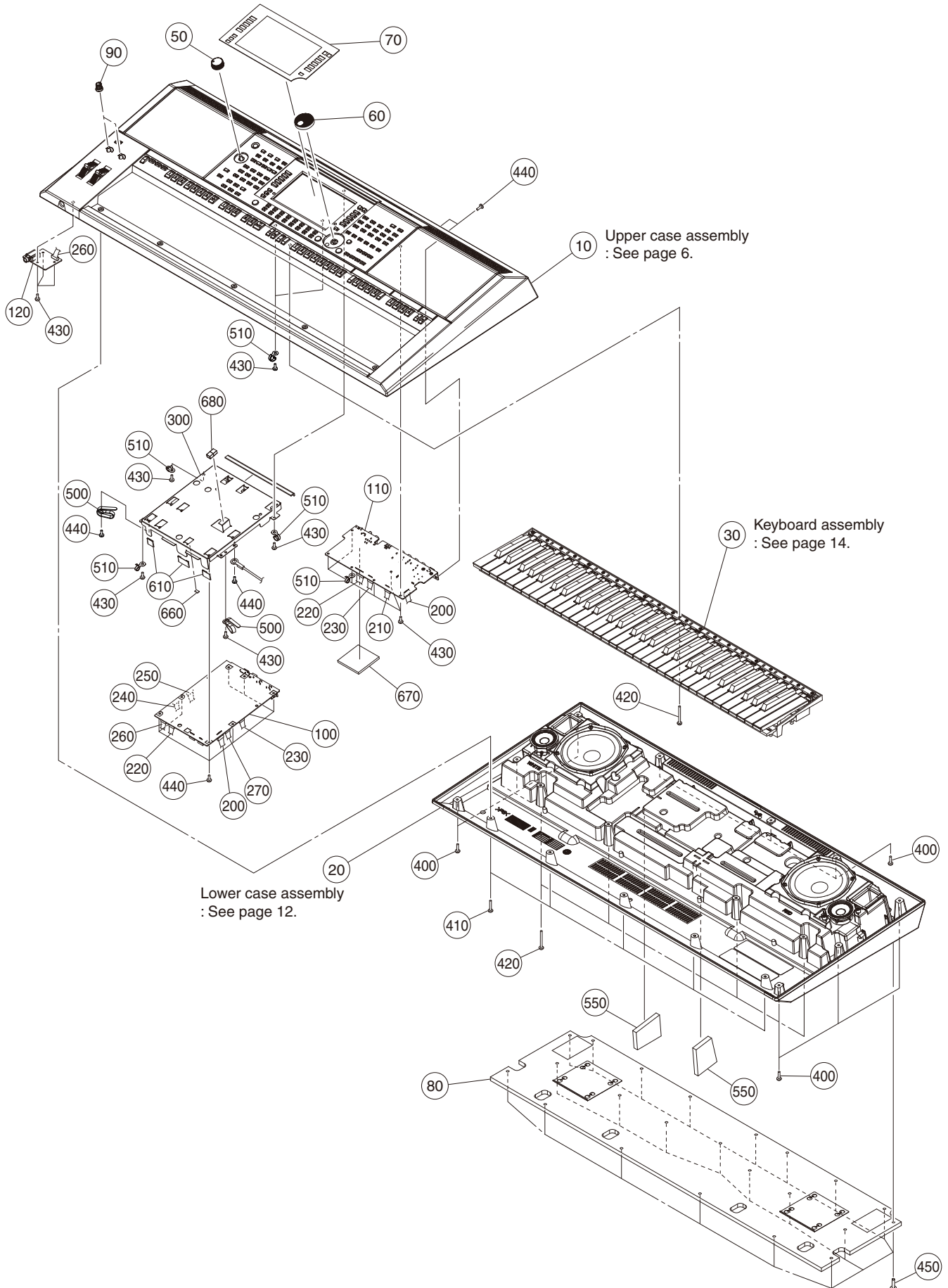
A : Australian model	M : South African model
B : British model	O : Chinese model
C : Canadian model	P : Brazilian model
D : German model	Q : South-east Asia model
E : European model	T : Taiwan model
F : French model	U : U.S.A. model
H : North European model	V : General export model (110V)
I : Indonesian model	W : General export model (220V)
J : Japanese model	N,X: General export model
K : Korean model	Y : Export model

■ WARNING

Components having special characteristics are marked  and must be replaced with parts having specification equal to those originally installed.

- The numbers “QTY” show quantities for each unit.
- The parts with “-” in “PART NO.” are not available as spare parts.
- This mark “ } ” in the REMARKS column means these parts are interchangeable.
- The second letter of the shaded (■) part number is O, not zero.
- The second letter of the shaded (■) part number is I, not one.

PSR-S770 OVERALL ASSEMBLY

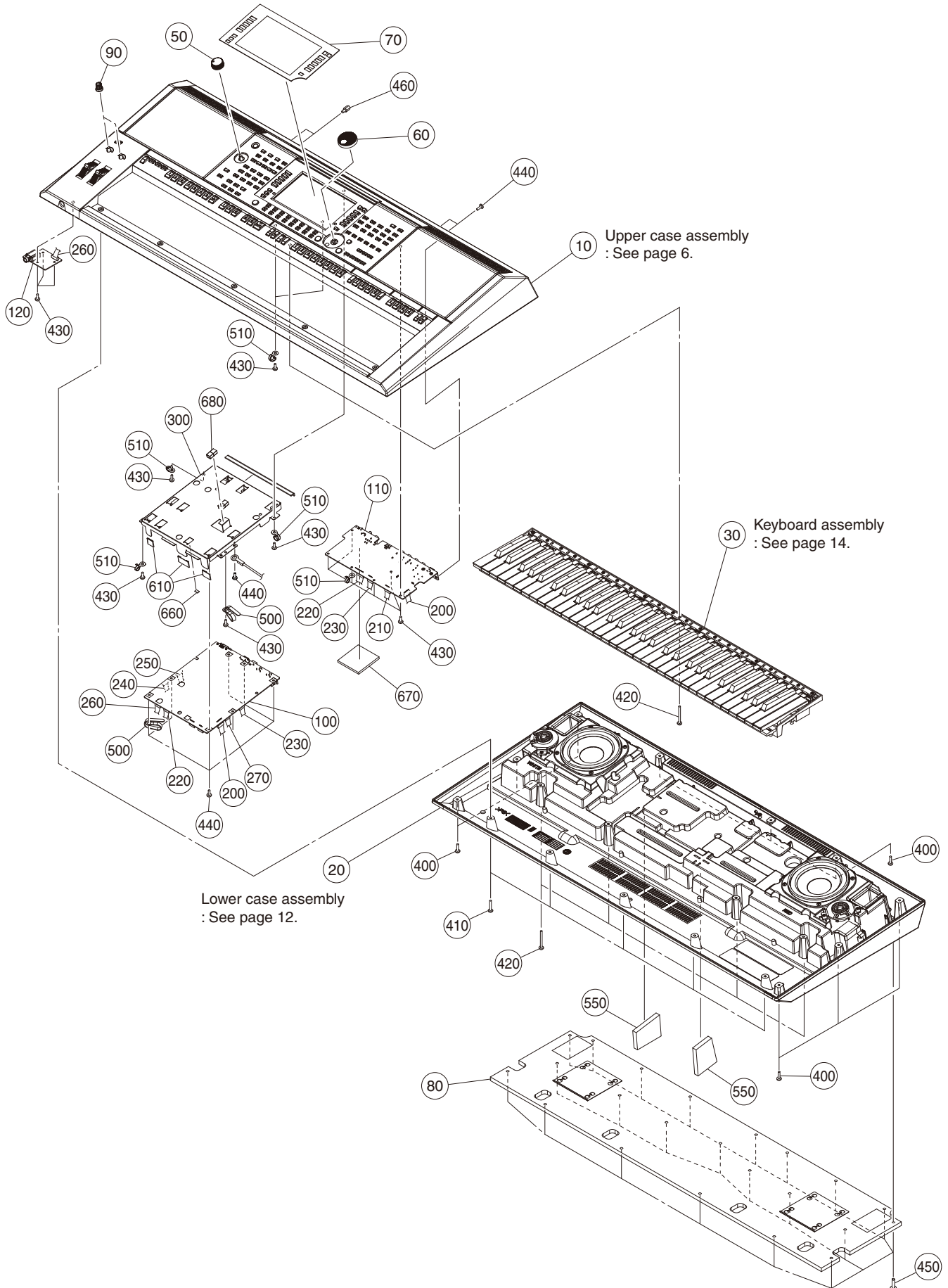


REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
		OVERALL ASSEMBLY		総 組 立	PSR-S770	
	--	OVERALL ASSEMBLY		総 組 立	(ZP45870)	
10	--	UPPER CASE ASSEMBLY		上 ケ ー ス A s s ' y	(ZP36040)	
20	--	LOWER CASE ASSEMBLY		下 ケ ー ス A s s ' y	(ZP54100)	
30	WB91420R	KEYBOARD ASSEMBLY	16M C61-2M-EBUS	1 6 M 鍵 盤 E M K S A		
50	WZ703600	VOLUME KNOB BLACK		ポ リ ュ ー ム ツ マ ミ	MASTER VOLUME	
60	ZA304900	ENCODER KNOB BLACK		エ ン コ ー ダ ー 成 形 品	Data entry	
* 70	ZN937800	LCD COVER		L C D カ バ ー 印 刷 品		
* 80	ZC650700	BOTTOM BOARD ASSEMBLY		底 板 A s s ' y		
* 90	ZN982100	KNOB PLASTIC SHAFT BLACK/GRAY		ノ ブ プ ラ 軸 用		2
* 100	ZN123800	CIRCUIT BOARD	DMM	D M M シ ー ト		
* 110	ZP451400	CIRCUIT BOARD	AJACK	A J A C K シ ー ト		
* 120	ZP451500	CIRCUIT BOARD	HP	H P シ ー ト		
200	--	CONNECTOR ASSEMBLY	XH S XH6P L=320	X H S 束 線	(ZP69140)	
210	--	CONNECTOR ASSEMBLY	PH-GH S PH6P-GH6P L=110	P H - G H S 束 線	(ZP44110)	
220	--	CONNECTOR ASSEMBLY	PH-GH S PH12P-GH12P L=335	P H - G H S 束 線	(ZP44070)	
230	--	CONNECTOR ASSEMBLY	PH-GH S PH7P-GH6P L=210	P H - G H S 束 線	(ZP44090)	
240	--	CONNECTOR ASSEMBLY	PH-GH S PH7P-GH7P L=180	P H - G H S 束 線	(ZP44100)	
250	--	CONNECTOR ASSEMBLY	GH S GH10P L=110	G H S 束 線	(ZP44120)	
260	--	CONNECTOR ASSEMBLY	PH S PH7P L=430	P H S 束 線	(ZP44170)	
270	--	CONNECTOR ASSEMBLY	GH S GH9P L=250	G H S 束 線	(ZP44130)	
300	--	SHIELD COVER		シ ー ル ド カ バ ー	(ZN89430)	
400	WE98740R	BIND HEAD TAPPING SCREW-B	3.0X12 MFZN2W3	B タ イ ト + B I N D		9
410	WE97340R	BIND HEAD TAPPING SCREW-B	3.0X16 MFZN2W3	B タ イ ト + B I N D		5
420	WF491001	BIND HEAD TAPPING SCREW-B	3.0X30 MFZN2W3	B タ イ ト + B I N D		5
430	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	B タ イ ト + B I N D		17
440	WE983600	BIND HEAD SCREW	3.0X8 MFZN2B3	小 ネ ジ + B I N D		11
450	WF15410R	BIND HEAD TAPPING SCREW-B	4.0X16 MFZN2W3	B タ イ ト + B I N D		22
500	--	CLIP, WIRE		束 線 止 め	(CB81751)	2
510	--	CORD CLAMPER		束 線 止 め	(CB83620)	6
550	--	SOUND ABSORBENT FELT		吸 着 音 材	(ZA69910)	2
600	--	FILAMENT TAPE	12X50	粘 着 テ ー プ	(VA12610)	8
610	--	ADHESIVE TAPE	15X30	アセテートクロス粘着テープ	(WG52680)	
660	--	GASKET	L8X5	ガ ス ケ ッ ト	(ZP35400)	
670	--	AJACK CUSHION		A J A C K ク ッ シ ョ ン	(ZC65880)	
680	--	SOFT GASKET	L10	ソ フ ト ガ ス ケ ッ ト	(ZF66010)	2
		ACCESSORIES		付 属 品		
	ZF451800	MUSIC REST WITH BAG BLACK		譜 面 板 袋 入 り		
	WU691400	AC ADAPTOR	PA-300C	A C ア ダ プ タ ー		
	V2917100	POWER SUPPLY CORD SET	E 2P 2.5m 2.5A	電 源 コ ー ド セ ッ ト	E,I	
	V3126501	POWER SUPPLY CORD SET	B 2P 2.5m	電 源 コ ー ド セ ッ ト	B	
	ZC295100	POWER SUPPLY CORD SET	UC 2P 7A 2.44m	電 源 コ ー ド セ ッ ト	U	
	WU795100	POWER SUPPLY CORD SET	BRA 2P 2.5m 2.5A	電 源 コ ー ド セ ッ ト	P	
	ZN855800	POWER SUPPLY CORD SET	AS 2P 2.5m	電 源 コ ー ド セ ッ ト	A	
	WC90170R	POWER SUPPLY CORD SET	GB 2P 2.5m	電 源 コ ー ド セ ッ ト	O	



*: New Parts

PSR-S970 OVERALL ASSEMBLY

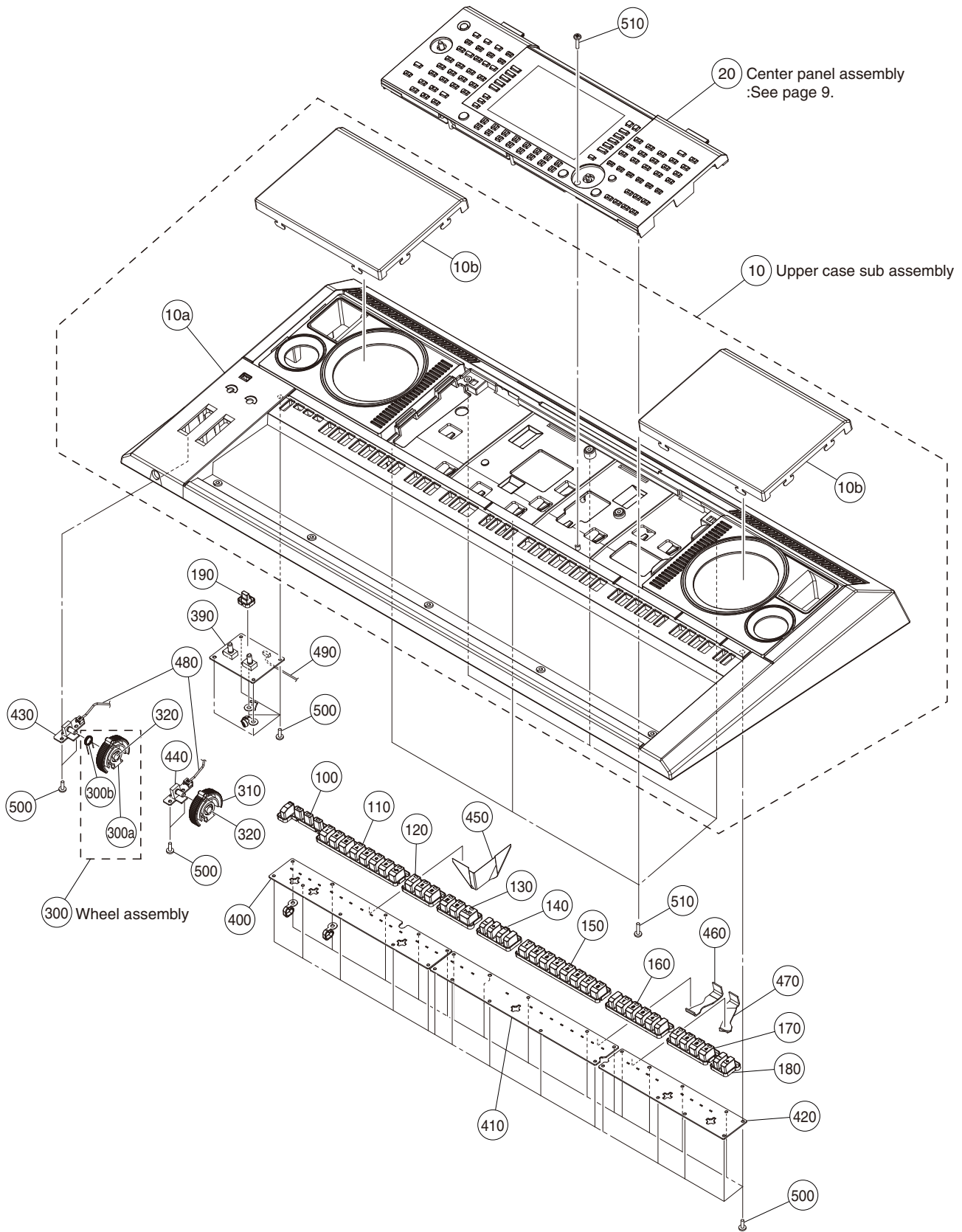


REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
		OVERALL ASSEMBLY		総 組 立	PSR-S970	
	--	OVERALL ASSEMBLY		総 組 立	(ZP34940)	
10	--	UPPER CASE ASSEMBLY		上 ケ ー ス A s s ' y	(ZP35000)	
20	--	LOWER CASE ASSEMBLY		下 ケ ー ス A s s ' y	(WZ89860)	
30	WB91420R	KEYBOARD ASSEMBLY	16M C61-2M-EBUS	1 6 M 鍵 盤 E M K S A		
50	WZ703600	VOLUME KNOB BLACK		ポ リ ュ ー ム ツ マ ミ	MASTER VOLUME	
* 60	ZH887500	ENCODER KNOB		エ ン コ ー ダ ー ツ マ ミ	Data entry	
* 70	ZN937800	LCD COVER		L C D カ バ ー 印 刷 品		
80	ZC650700	BOTTOM BOARD ASSEMBLY		底 板 A s s ' y		
* 90	ZN982100	KNOB PLASTIC SHAFT BLACK/GRAY		ノ ブ プ ラ 軸 用		2
* 100	ZN123700	CIRCUIT BOARD	DMH	D M H シ ー ト		
* 110	ZP451400	CIRCUIT BOARD	AJACK	A J A C K シ ー ト		
* 120	ZP451500	CIRCUIT BOARD	HP	H P シ ー ト		
200	--	CONNECTOR ASSEMBLY	XH S XH6P L=320	X H S 束 線	(ZP69140)	
210	--	CONNECTOR ASSEMBLY	PH-GH S PH6P-GH6P L=110	P H - G H S 束 線	(ZP44110)	
220	--	CONNECTOR ASSEMBLY	PH-GH S PH12P-GH12P L=335	P H - G H S 束 線	(ZP44070)	
230	--	CONNECTOR ASSEMBLY	PH-GH S PH7P-GH6P L=210	P H - G H S 束 線	(ZP44090)	
240	--	CONNECTOR ASSEMBLY	PH-GH S PH7P-GH7P L=180	P H - G H S 束 線	(ZP44100)	
250	--	CONNECTOR ASSEMBLY	GH S GH10P L=110	G H S 束 線	(ZP44120)	
260	--	CONNECTOR ASSEMBLY	PH S PH7P L=430	P H S 束 線	(ZP44170)	
270	--	CONNECTOR ASSEMBLY	GH S GH9P L=250	G H S 束 線	(ZP44130)	
300	--	SHIELD COVER PRINT		シ ー ル ド カ バ ー 印 刷	(ZN89640)	
400	WE98740R	BIND HEAD TAPPING SCREW-B	3.0X12 MFZN2W3	B タ イ ト + B I N D		9
410	WE97340R	BIND HEAD TAPPING SCREW-B	3.0X16 MFZN2W3	B タ イ ト + B I N D		5
420	WF491001	BIND HEAD TAPPING SCREW-B	3.0X30 MFZN2W3	B タ イ ト + B I N D		5
430	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	B タ イ ト + B I N D		17
440	WE983600	BIND HEAD SCREW	3.0X8 MFZN2B3	小 ネ ジ + B I N D		10
450	WF15410R	BIND HEAD TAPPING SCREW-B	4.0X16 MFZN2W3	B タ イ ト + B I N D		22
460	V670660R	HEXAGONAL LOCK SCREW	HFS-4S-B1W	6 角 ロ ッ ク ネ ジ		2
500	--	CLIP, WIRE		束 線 止 め	(CB81751)	2
510	--	CORD CLAMPER		束 線 止 め	(CB83620)	6
550	--	SOUND ABSORBENT FELT		吸 音 材	(ZA69910)	2
600	--	FILAMENT TAPE	12X50	粘 着 テ ー プ	(VA12610)	8
610	--	ADHESIVE TAPE	15X30	ア セ テ ー ト ク ロ ス 粘 着 テ ー プ	(WG52680)	
660	--	GASKET	L8X5	ガ ス ケ ッ ト	(ZP35400)	
670	--	AJACK CUSHION		A J A C K ク ッ シ ョ ン	(ZC65880)	
680	--	SOFT GASKET	L10	ソ フ ト ガ ス ケ ッ ト	(ZF66010)	2
	ZF451800	ACCESSORIES		付 属 品		
	WU691400	MUSIC REST WITH BAG BLACK		譜 面 袋 入 り		
	V2917100	AC ADAPTOR	PA-300C	A C ア ダ プ タ ー		
	V3126501	POWER SUPPLY CORD SET	E 2P 2.5m 2.5A	電 源 コ ー ド セ ッ ト	E,I	
	ZC295100	POWER SUPPLY CORD SET	B 2P 2.5m	電 源 コ ー ド セ ッ ト	B	
	ZG891000	POWER SUPPLY CORD SET	UC 2P 7A 2.44m	電 源 コ ー ド セ ッ ト	U	
	WU795100	POWER SUPPLY CORD SET	K 2P 2.5A	電 源 コ ー ド セ ッ ト	K	
	ZN855800	POWER SUPPLY CORD SET	BRA 2P 2.5m 2.5A	電 源 コ ー ド セ ッ ト	P	
	WC90170R	POWER SUPPLY CORD SET	AS 2P 2.5m	電 源 コ ー ド セ ッ ト	A	
			GB 2P 2.5m	電 源 コ ー ド セ ッ ト	O	



*: New Parts

■ UPPER CASE ASSEMBLY



● PSR-S770

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
* 10	ZP361100	UPPER CASE ASSEMBLY		上 ケ ー ス A s s ' y	PSR-S770	
10a	--	UPPER CASE ASSEMBLY		上 ケ ー ス A s s ' y	(ZP36040)	
10b	--	UPPER CASE SUB ASSEMBLY		上 ケ ー ス サ ブ A s s ' y		
10b	ZA325300	UPPER CASE		上 ケ ー ス 印 刷 品	(ZN89340)	
		SPEAKER GRILLE		S P グ リ ル 塗 装 品		2
20	--	CENTER PANEL ASSEMBLY		C パ ネ ル A s s ' y	(ZP36170)	
100	ZC188200	SWITCH ASSEMBLY A	X4	ス イ ッ チ A s s ' y A	ACMP, FADE IN/OUT, OTS LINK, AUTO FILL IN	
110	WZ962000	SWITCH ASSEMBLY B	X8	ス イ ッ チ A s s ' y B	INTRO, MAIN VARIATION, BREAK	
120	WZ962100	SWITCH ASSEMBLY C	X3	ス イ ッ チ A s s ' y C	ENDING/rit.	
130	WZ962200	SWITCH ASSEMBLY D	X3	ス イ ッ チ A s s ' y D	SYNC STOP, SYNC START, START/STOP	
140	WZ962300	SWITCH ASSEMBLY E	X4	ス イ ッ チ A s s ' y E	REGIST BANK (-,+), FREEZE, MEMORY	
150	WZ962400	SWITCH ASSEMBLY F	X8	ス イ ッ チ A s s ' y F	REGISTRATION MEMORY (1-8)	
160	WZ962500	SWITCH ASSEMBLY G	X6	ス イ ッ チ A s s ' y G	MULTI PAD CONTROL (SELECT, 1-4, STOP)	
170	WZ962600	SWITCH ASSEMBLY H	X4	ス イ ッ チ A s s ' y H	ONE TOUCH SETTING (1-4)	
180	WZ960300	PANEL SWITCH I	X2	P N ス イ ッ チ I	UPPER OCTAVE (-,+)	
* 190	ZN912100	PANEL SWITCH L1	X1	P N ス イ ッ チ L 1		
300	VY79310R	WHEEL ASSEMBLY		ホ イ ー ル A s s ' y		
300a	--	WHEEL		ホ イ ー ル	(VY75080)	
300b	--	WHEEL SPRING		ホ イ ー ル バ ネ	(VT44010)	
310	--	WHEEL		ホ イ ー ル	(VY75080)	
320	TX920280	GREASE	G-31KA 50g	グ リ ス	(VE96850)	
* 390	ZP451300	CIRCUIT BOARD	KNOB	K N O B シ ー ト		
* 400	ZP450700	CIRCUIT BOARD	PNL	P N L シ ー ト		
* 410	ZP450800	CIRCUIT BOARD	PNC	P N C シ ー ト		
* 420	ZP450900	CIRCUIT BOARD	PNR	P N R シ ー ト		
* 430	ZP451600	CIRCUIT BOARD	PB	P B シ ー ト		
* 440	ZP451700	CIRCUIT BOARD	MOD	M O D シ ー ト		
* 450	ZA581500	WIRING ASSEMBLY	FFC S 29P P=1.0 L=130	F F C S 束 線		
460	--	CONNECTOR ASSEMBLY	GH S GH15P L=100	G H S 束 線	(ZP44140)	
470	--	CONNECTOR ASSEMBLY	GH S GH13P L=110	G H S 束 線	(ZP44150)	
480	--	CONNECTOR ASSEMBLY	PBMOD S PH4P/3P-GH7P L=145	P B M O D S 束 線	(ZT25170)	
490	--	CONNECTOR ASSEMBLY	KNOB GH10P-GH9P L=390	K N O B 束 線	(ZP44180)	
500	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	B タ イ ト + B I N D		38
510	WE98740R	BIND HEAD TAPPING SCREW-B	3.0X12 MFZN2W3	B タ イ ト + B I N D		8

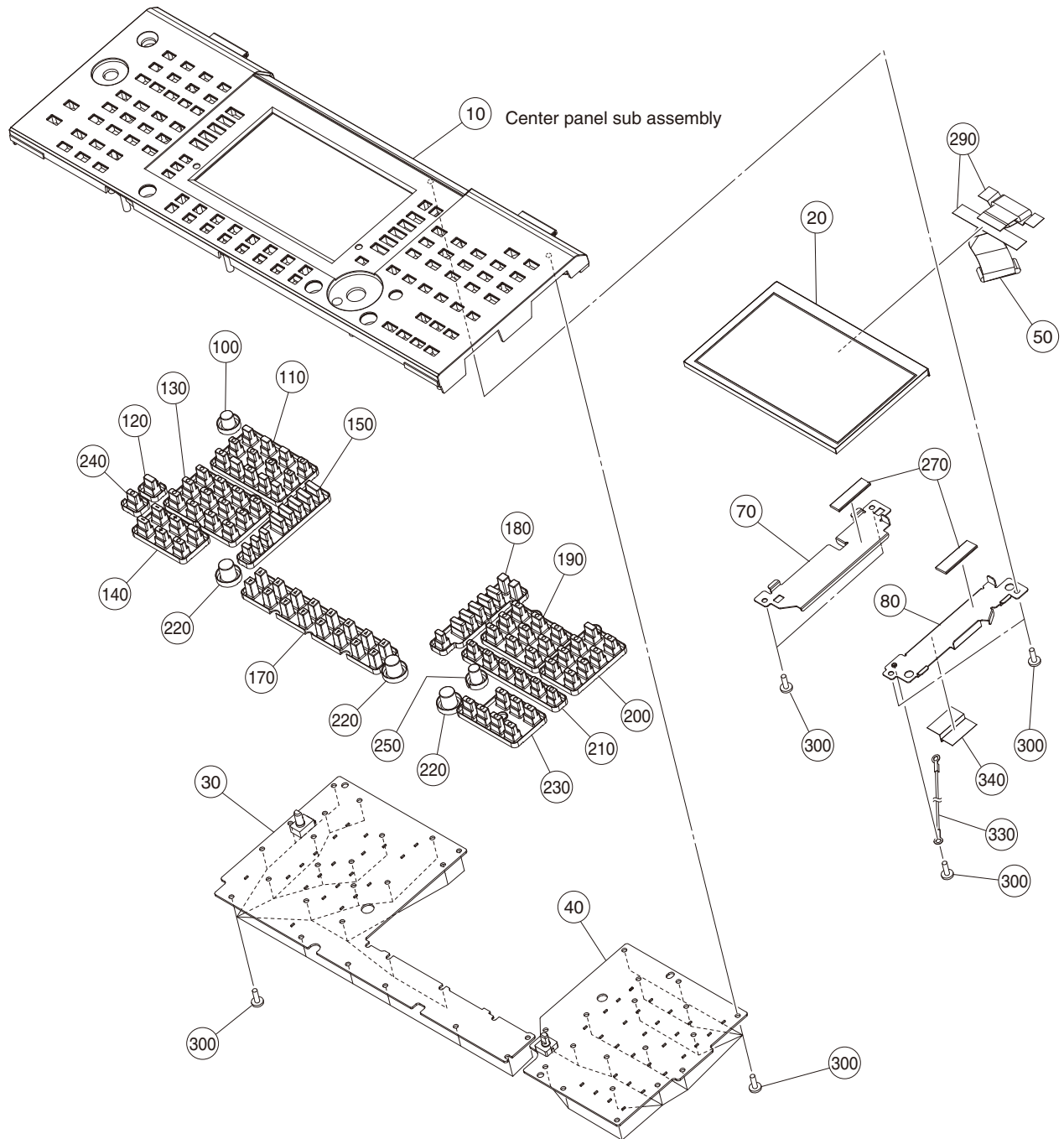
*: New Parts

● PSR-S970

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
		UPPER CASE ASSEMBLY		上 ケ ー ス A s s ' y	PSR-S970	
	--	UPPER CASE ASSEMBLY		上 ケ ー ス A s s ' y	(ZP35000)	
* 10	ZP350400	UPPER CASE SUB ASSEMBLY		上 ケ ー ス サ ブ A s s ' y		
10a	--	UPPER CASE		上 ケ ー ス 印 刷 品	(ZN89330)	
10b	ZA325300	SPEAKER GRILLE		S P グ リ ル 塗 装 品		2
20	--	CENTER PANEL ASSEMBLY		C パ ネ ル A s s ' y	(ZP35080)	
100	ZC188200	SWITCH ASSEMBLY A	X4	ス イ ッ チ A s s ' y A	ACMP, FADE IN/OUT, OTS LINK, AUTO FILL IN	
110	WZ962000	SWITCH ASSEMBLY B	X8	ス イ ッ チ A s s ' y B	INTRO, MAIN VARIATION, BREAK	
120	WZ962100	SWITCH ASSEMBLY C	X3	ス イ ッ チ A s s ' y C	ENDING/rit.	
130	WZ962200	SWITCH ASSEMBLY D	X3	ス イ ッ チ A s s ' y D	SYNC STOP, SYNC START, START/STOP	
140	WZ962300	SWITCH ASSEMBLY E	X4	ス イ ッ チ A s s ' y E	REGIST BANK (-,+), FREEZE, MEMORY	
150	WZ962400	SWITCH ASSEMBLY F	X8	ス イ ッ チ A s s ' y F	REGISTRATION MEMORY (1-8)	
160	WZ962500	SWITCH ASSEMBLY G	X6	ス イ ッ チ A s s ' y G	MULTI PAD CONTROL (SELECT, 1-4, STOP)	
170	WZ962600	SWITCH ASSEMBLY H	X4	ス イ ッ チ A s s ' y H	ONE TOUCH SETTING (1-4)	
180	WZ960300	PANEL SWITCH I	X2	P N ス イ ッ チ I	UPPER OCTAVE (-,+)	
* 190	ZN912100	PANEL SWITCH L1	X1	P N ス イ ッ チ L 1		
300	VY79310R	WHEEL ASSEMBLY		ホ イ ー ル A s s ' y		
300a	--	WHEEL		ホ イ ー ル	(VY75080)	
300b	--	WHEEL SPRING		ホ イ ー ル バ ネ	(VT44010)	
310	--	WHEEL		ホ イ ー ル	(VY75080)	
320	TX920280	GREASE	G-31KA 50g	グ リ ス	(VE96850)	
* 390	ZP451300	CIRCUIT BOARD	KNOB	K N O B シ ー ト		
* 400	ZP450700	CIRCUIT BOARD	PNL	P N L シ ー ト		
* 410	ZP450800	CIRCUIT BOARD	PNC	P N C シ ー ト		
* 420	ZP450900	CIRCUIT BOARD	PNR	P N R シ ー ト		
* 430	ZP451600	CIRCUIT BOARD	PB	P B シ ー ト		
* 440	ZP451700	CIRCUIT BOARD	MOD	M O D シ ー ト		
* 450	ZA581500	WIRING ASSEMBLY	FFC S 29P P=1.0 L=130	F F C S 束 線		
460	--	CONNECTOR ASSEMBLY	GH S GH15P L=100	G H S 束 線	(ZP44140)	
470	--	CONNECTOR ASSEMBLY	GH S GH13P L=110	G H S 束 線	(ZP44150)	
480	--	CONNECTOR ASSEMBLY	PBMOD S PH4P/3P-GH7P L=145	P B M O D S 束 線	(ZT25170)	
490	--	CONNECTOR ASSEMBLY	KNOB GH10P-GH9P L=390	K N O B 束 線	(ZP44180)	
500	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	B タ イ ト + B I N D		38
510	WE98740R	BIND HEAD TAPPING SCREW-B	3.0X12 MFZN2W3	B タ イ ト + B I N D		8

*: New Parts

■ CENTER PANEL ASSEMBLY



● PSR-S770

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
	--	CENTER PANEL ASSEMBLY		C パネル A s s ' y	PSR-S770	
	--	CENTER PANEL ASSEMBLY		C パネル A s s ' y	(ZP36170)	
* 10	ZP361800	CENTER PANEL SUB ASSEMBLY		C パネルサブ A s s ' y		
* 20	ZN547100	CRYSTAL DISPLAY	M070SWP1 R5	液 晶 デ ィ ス プ レ イ		
* 30	ZP451000	CIRCUIT BOARD	PNM	P N M シ ー ト		
* 40	ZP451200	CIRCUIT BOARD	PNS	P N S シ ー ト		
* 50	ZP442000	WIRING ASSEMBLY	FFC S L F 50P P=0.5 L=150	F F C S L F 束 線		
70	--	LCD FIXTURE L	LEFT	L C D 固 定 金 具 L	(ZN89200)	
80	--	LCD FIXTURE R	RIGHT	L C D 固 定 金 具 R	(ZN89220)	
100	WZ960400	PANEL SWITCH J	X1	P N ス イ ッ チ J	STANDBY/ON	
* 110	ZP351400	SWITCH ASSEMBLY K	X13	ス イ ッ チ A s s ' y K	SONG (SELECT▶▶)	
* 120	ZN912100	PANEL SWITCH L1	X1	P N ス イ ッ チ L 1	DEMO	
* 130	ZP351600	SWITCH ASSEMBLY M	X12	ス イ ッ チ A s s ' y M	STYLE (POP&ROCK-EXPANSION/USER)	
* 140	ZP351900	SWITCH ASSEMBLY N	X6	ス イ ッ チ A s s ' y N	TEMPO (-,+), TAP TEMPO, TRANSCOPE (-,+), METRONOME	
* 150	ZN912400	PANEL SWITCH O1	X8	P N ス イ ッ チ O 1	A-E, BAL., MIXER/EQ, CHANNEL ON/OFF	
* 170	ZN912500	PANEL SWITCH Q1	X16	P N ス イ ッ チ Q 1	1-8 (▲/▼)	
* 180	ZN912600	PANEL SWITCH R1	X8	P N ス イ ッ チ R 1	TAB◀▶, F-J, FUNCTION	
* 190	ZP353400	SWITCH ASSEMBLY S	X9	ス イ ッ チ A s s ' y S	VOICE (PIANO-WOODWIND)	
* 200	ZP353500	SWITCH ASSEMBLY T	X8	ス イ ッ チ A s s ' y T	USB AUDIO PLAYER, USB,	
* 210	ZP353700	SWITCH ASSEMBLY U	X6	ス イ ッ チ A s s ' y U	VOICE (CHOIR&PAD-EXPANSION/USER)	
* 220	WZ961600	PANEL SWITCH V	X1	P N ス イ ッ チ V	VOICE EFFECT (HARMONY/ARPEGGIO-VARI.)	3
* 230	ZP353800	SWITCH ASSEMBLY W	X7	ス イ ッ チ A s s ' y W	DIRECT ACCESS, EXIT, ENTER PART SELECT, PART ON/OFF (LEFT HOLD, LEFT, RIGHT1&2)	
* 240	ZP353900	SWITCH ASSEMBLY X	X1	ス イ ッ チ A s s ' y X	MIC SETTING	
* 250	ZN913200	PANEL SWITCH Y1	X1	P N ス イ ッ チ Y 1	MUSIC FINDER	
270	--	GASKET		ガ ス ケ ッ ト	(ZS77820)	2
290	--	FILAMENT TAPE	12X70	粘 着 テ ー プ	(V255510)	2
300	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	B タ イ ト + B I N D		49
330	--	CONNECTOR ASSEMBLY	GROUND3	ア ー ス 線 3	(WJ01350)	
340	--	EL ADHESIVE TAPE		導 電 性 粘 着 テ ー プ	(WA53090)	

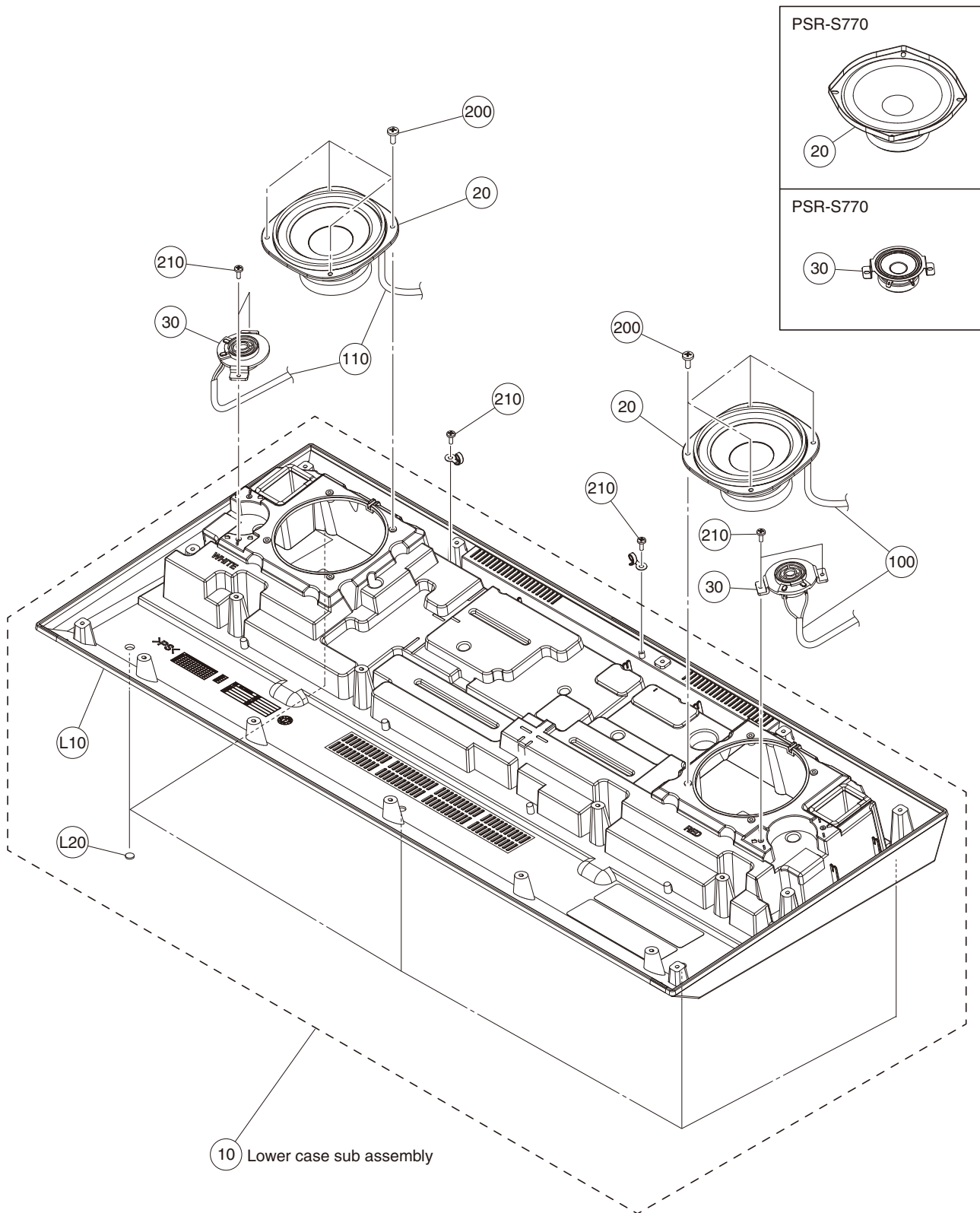
*: New Parts

● PSR-S970

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
	--	CENTER PANEL ASSEMBLY		C パネル A s s ' y	PSR-S970	
	--	CENTER PANEL ASSEMBLY		C パネル A s s ' y	(ZP35080)	
* 10	ZP350900	CENTER PANEL SUB ASSEMBLY		C パネルサブ A s s ' y		
* 20	ZN547100	CRYSTAL DISPLAY	M070SWP1 R5	液 晶 デ ィ ス プ レ イ		
* 30	ZP451000	CIRCUIT BOARD	PNM	P N M シ ー ト		
* 40	ZP451200	CIRCUIT BOARD	PNS	P N S シ ー ト		
* 50	ZP442000	WIRING ASSEMBLY	FFC S LF 50P P=0.5 L=150	F F C S L F 束 線		
70	--	LCD FIXTURE L	LEFT	L C D 固 定 金 具 L	(ZN89200)	
80	--	LCD FIXTURE R	RIGHT	L C D 固 定 金 具 R	(ZN89220)	
100	WZ960400	PANEL SWITCH J	X1	P N ス イ ッ チ J	STANDBY/ON	
* 110	ZP351400	SWITCH ASSEMBLY K	X13	ス イ ッ チ A s s ' y K	SONG (SELECT▶▶)	
* 120	ZN912100	PANEL SWITCH L1	X1	P N ス イ ッ チ L 1	DEMO	
* 130	ZP351600	SWITCH ASSEMBLY M	X12	ス イ ッ チ A s s ' y M	STYLE (POP&ROCK-EXPANSION/USER)	
* 140	ZP351900	SWITCH ASSEMBLY N	X6	ス イ ッ チ A s s ' y N	TEMPO (-,+), TAP TEMPO, TRANSCOPE (-,+), METRONOME	
* 150	ZN912400	PANEL SWITCH O1	X8	P N ス イ ッ チ O 1	A-E, BAL., MIXER/EQ, CHANNEL ON/OFF	
* 170	ZN912500	PANEL SWITCH Q1	X16	P N ス イ ッ チ Q 1	1-8 (▲/▼)	
* 180	ZN912600	PANEL SWITCH R1	X8	P N ス イ ッ チ R 1	TAB◀▶, F-J, FUNCTION	
* 190	ZP353400	SWITCH ASSEMBLY S	X9	ス イ ッ チ A s s ' y S	VOICE (PIANO-WOODWIND)	
* 200	ZP353500	SWITCH ASSEMBLY T	X8	ス イ ッ チ A s s ' y T	USB AUDIO PLAYER, USB,	
* 210	ZP353700	SWITCH ASSEMBLY U	X6	ス イ ッ チ A s s ' y U	VOICE (CHOIR&PAD-EXPANSION/USER)	
220	WZ961600	PANEL SWITCH V	X1	P N ス イ ッ チ V	VOICE EFFECT (HARMONY/ARPEGGIO-VARI.)	
* 230	ZP353800	SWITCH ASSEMBLY W	X7	ス イ ッ チ A s s ' y W	DIRECT ACCESS, EXIT, ENTER PART SELECT, PART ON/OFF (LEFT HOLD, LEFT, RIGHT1&2)	3
* 240	ZP353900	SWITCH ASSEMBLY X	X1	ス イ ッ チ A s s ' y X	MIC SETTING/VOCAL HARMONY	
* 250	ZN913200	PANEL SWITCH Y1	X1	P N ス イ ッ チ Y 1	MUSIC FINDER	
270	--	GASKET		ガ ス ケ ッ ト	(ZS77820)	2
290	--	FILAMENT TAPE	12X70	粘 着 テ ー プ	(V255510)	2
300	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	B タ イ ト + B I N D		49
330	--	CONNECTOR ASSEMBLY	GROUND3	ア ー ス 線 3	(WJ01350)	
340	--	EL ADHESIVE TAPE		導 電 性 粘 着 テ ー プ	(WA53090)	

*: New Parts

■ LOWER CASE ASSEMBLY



* This figure shows the PSR-S970.

● PSR-S770

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
10	--	LOWER CASE ASSEMBLY		下 ケース A s s ' y	PSR-S770	
20	WZ899400	LOWER CASE ASSEMBLY		下 ケース A s s ' y	(ZP54100)	
30	YE178A00	LOWER CASE SUB ASSEMBLY		下 ケース サブ A s s ' y		
100	YD681A00	SPEAKER	13.0cm 4ohm 20W	ス ピ ー カ	WOOFER	2
110	YD681A00	LOUD SPEAKER	5.0cm 6ohm 10W	ス ピ ー カ	TWEETER	2
100	--	CONNECTOR ASSEMBLY	SPR S XH4P-RECEP L=780	S P R S 束 線	(ZA58080)	
110	--	CONNECTOR ASSEMBLY	SPL S XH5P-RECEP L=660	S P L S 束 線	(ZA58110)	
200	WE97450R	BIND HEAD TAPPING SCREW-B	4.0X10 MFZN2W3	B タ イ ト + B I N D		8
210	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	B タ イ ト + B I N D		6
L10	WZ899400	LOWER CASE SUB ASSEMBLY		下 ケース サブ A s s ' y		
L20	--	LOWER CASE BLACK		下 ケース 成 形 品	(WZ70280)	
L20	CB043753	RUBBER FOOT BLACK	T1.6	ゴ ム 脚		5

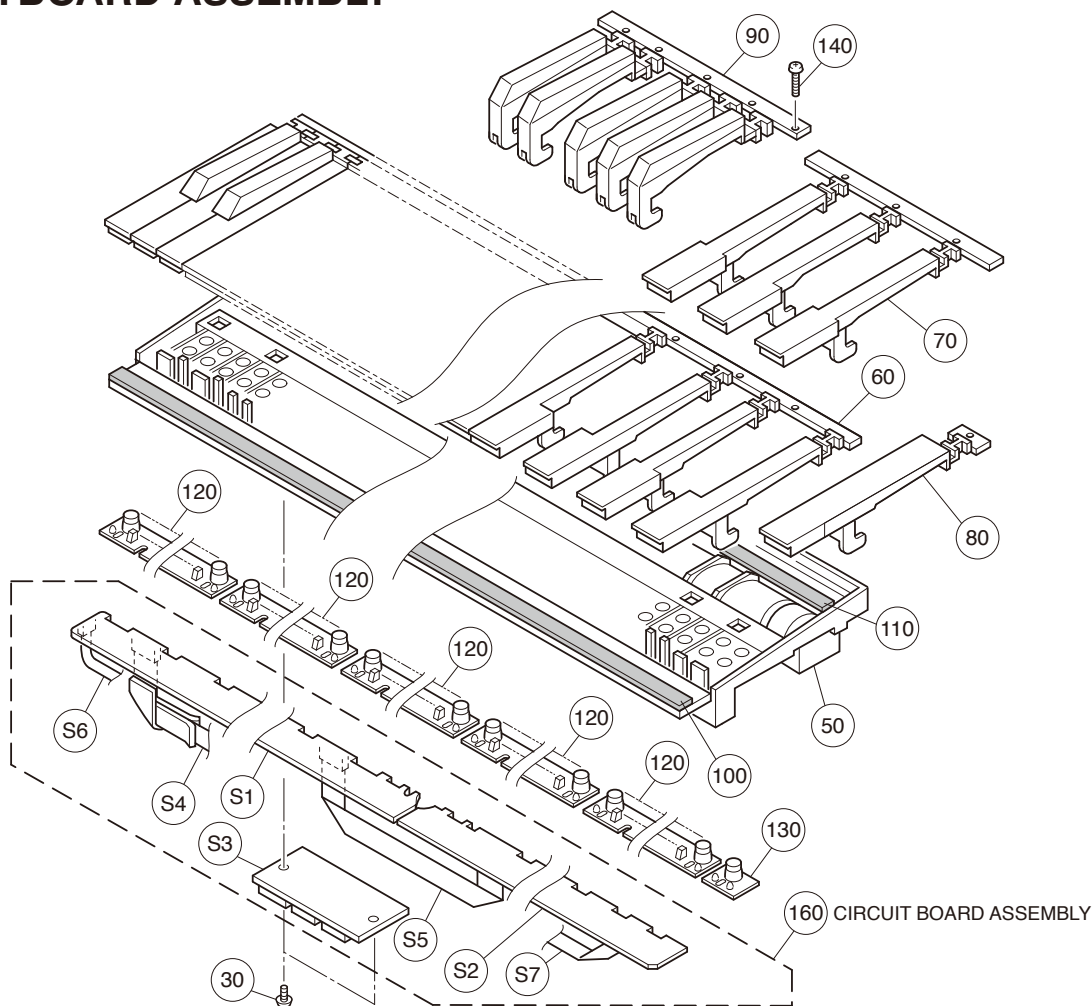
*: New Parts

● PSR-S970

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
10	--	LOWER CASE ASSEMBLY		下 ケース A s s ' y	PSR-S970	
20	WZ899400	LOWER CASE ASSEMBLY		下 ケース A s s ' y	(WZ89860)	
30	YE177A00	LOWER CASE SUB ASSEMBLY		下 ケース サブ A s s ' y		
100	YE179A00	SPEAKER	13.0cm 4ohm 35W	ス ピ ー カ	WOOFER	2
110	YE179A00	SPEAKER	2.5cm 4ohm 20W	ス ピ ー カ	TWEETER	2
100	--	CONNECTOR ASSEMBLY	SPR S XH4P-RECEP L=780	S P R S 束 線	(ZA58080)	
110	--	CONNECTOR ASSEMBLY	SPL S XH5P-RECEP L=660	S P L S 束 線	(ZA58110)	
200	WE97450R	BIND HEAD TAPPING SCREW-B	4.0X10 MFZN2W3	B タ イ ト + B I N D		8
210	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	B タ イ ト + B I N D		6
L10	WZ899400	LOWER CASE SUB ASSEMBLY		下 ケース サブ A s s ' y		
L20	--	LOWER CASE BLACK		下 ケース 成 形 品	(WZ70280)	
L20	CB043753	RUBBER FOOT BLACK	T1.6	ゴ ム 脚		5

*: New Parts

KEYBOARD ASSEMBLY



REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY
		KEYBOARD ASSEMBLY	1 6 M 鍵盤 E M K S A	PSR-S770/PSR-S970	
		KEYBOARD ASSEMBLY	1 6 M 鍵盤 E M K S A		
30	WB91420R	BIND HEAD TAPPING SCREW-P	3.0X8 MFZN2B3		2
50	--	KEYBOARD FRAME BLACK	C61 16M	(VU32860)	
60	VH180900	WHITE KEY	CEGB 16L		5
70	VH181000	WHITE KEY	DFA 16L		5
80	VH181102	WHITE KEY	C' 16L		
90	VH181202	BLACK KEY			5
100	VH181300	FELT	16L C-61		
* 110	ZH086100	CUSHION SHEET	16L,16M		
120	VU328401	KEYBOARD RUBBER CONTACT	CT 2M 12KEYS		5
130	VU328501	KEYBOARD RUBBER CONTACT	16M C' 2M 1KEY		
140	WE973000	BIND HEAD TAPPING SCREW-P	3.0X16 MFZN2W3		21
140	WE983200	BIND HEAD TAPPING SCREW-P	3.0X16 MFZN2B3		21
150	TX920280	GREASE	G-31KA 50g	(VE96850)	
160	--	CIRCUIT BOARD ASSEMBLY	16M C61 P2M EBUS	(WB91430)	
	--	CIRCUIT BOARD ASSEMBLY	16M C61 P2M EBUS	(WB91430)	
S1	VU648101	CIRCUIT BOARD	MK-L		
S2	VU648200	CIRCUIT BOARD	MK-H		
S3	WF310500	CIRCUIT BOARD	EMKS61A(E-BUS)		
S4	VU95890R	CABLE	12P L=190		
S5	VU65950R	CABLE	12P		
S6	VU65940R	CABLE	7P		
S7	VU65960R	CABLE	5P		

*: New Parts

■ PSR-S770 ELECTRICAL PARTS

AJACK/HP/MOD/PB

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY
		ELECTRICAL PARTS	電 気 部 品	PSR-S770	
*	ZP451400	CIRCUIT BOARD	AJACK	(ZN43330)(YG589F0)	
*	ZP451500	CIRCUIT BOARD	HP	(ZN43330)(YG589F0)	
*	ZP451700	CIRCUIT BOARD	MOD	(ZN43330)(YG589F0)	
*	ZP451600	CIRCUIT BOARD	PB	(ZN43330)(YG589F0)	
*	ZN123800	CIRCUIT BOARD	DMM	(YG546C0)	
*	WF310500	CIRCUIT BOARD	EMKS61A(E-BUS)	(WF31010)(X6637C0)	
*	ZP451300	CIRCUIT BOARD	KNOB	(ZN43310)(YG581D0)	
*	ZP451000	CIRCUIT BOARD	PNM	(ZN43310)(YG581D0)	
*	ZP451200	CIRCUIT BOARD	PNS	(ZN43310)(YG581D0)	
*	VU648200	CIRCUIT BOARD	MK-H	(VU64800)(XR565C0)	
*	VU648101	CIRCUIT BOARD	MK-L	(VU64790)(XR564C0)	
*	ZP450800	CIRCUIT BOARD	PNC	(ZN43320)(YG588D0)	
*	ZP450700	CIRCUIT BOARD	PNL	(ZN43320)(YG588D0)	
*	ZP450900	CIRCUIT BOARD	PNR	(ZN43320)(YG588D0)	
*	ZP451400	CIRCUIT BOARD	AJACK	(ZN43330)(YG589F0)	
*	ZP451500	CIRCUIT BOARD	HP	(ZN43330)(YG589F0)	
*	ZP451700	CIRCUIT BOARD	MOD	(ZN43330)(YG589F0)	
*	ZP451600	CIRCUIT BOARD	PB	(ZN43330)(YG589F0)	
	--	DC JACK PLATE	D C ジャック金具塗装品	(ZN88960)	
	WE774301	BIND HEAD TAPPING SCREW-B	B タイト + B I N D		2
C133	UR749680	ELECTROLYTIC CAPACITOR	ケ ミ コ ン		
D100	V9917100	DIODE	ダ イ オード		
FT100	ZA675500	FET KB-290	F E T		
IC100	XJ602A00	IC	I C	REGULATOR +12V	
JK100	V814980R	DC CONNECTOR	電 源 コ ネ ク タ	DC IN	
JK102	VB23040R	PHONE CONNECTOR	ホ ー ン コ ネ ク タ	AUX IN	
JK100	ZA590000	PHONE CONNECTOR	ホ ー ン コ ネ ク タ		
JK103	VS11540R	PHONE CONNECTOR BLACK	ホ ー ン コ ネ ク タ (黒)	OUTPUT L/L+R	
JK104	VS11540R	PHONE CONNECTOR BLACK	ホ ー ン コ ネ ク タ (黒)	OUTPUT R	
JK105	VS11540R	PHONE CONNECTOR BLACK	ホ ー ン コ ネ ク タ (黒)	FOOT PEDAL 1	
JK106	VS11540R	PHONE CONNECTOR BLACK	ホ ー ン コ ネ ク タ (黒)	FOOT PEDAL 2	
JK200	WJ306200	PHONE CONNECTOR	ホ ー ン コ ネ ク タ	PHONES	
JK401	WJ306200	PHONE CONNECTOR	ホ ー ン コ ネ ク タ	MIC/GUITART INPUT	
L102	--	LINE FILTER	ラ イン フィルター	(ZC24080)	
L107	--	COIL	コ イ ル	(ZK72630)	
-110	--	COIL	コ イ ル	(ZK72630)	
L113	--	COIL	コ イ ル	(ZK72630)	
L114	--	COIL	コ イ ル	(ZK72630)	
L116	--	COIL	コ イ ル	(VT73340)	
L117	--	COIL	コ イ ル	(VT73340)	
RY200	V824560R	RELAY	リ レ		
RY200	V8616501	RELAY	リ レ - 1 2 V		
RY200	WB17080R	RELAY	リ レ - 1 2 V		
RY200	WB751900	RELAY	リ レ - 1 2 V		
SW400	VQ545800	SLIDE SWITCH	ス ラ イ ド S W	MIC GUITAR	
TH100	VV45800R	PROTECTOR SWITCH	ボ リ ス イ ッ チ		
VR400	ZA774900	ROTARY VARIABLE RESISTOR	ロ ー タ リ ー V R	GAIN	
VR401	WZ510000	ROTARY VARIABLE RESISTOR	ロ ー タ リ ー V R	PITCH BEND	
VR402	WZ510000	ROTARY VARIABLE RESISTOR	ロ ー タ リ ー V R	MODULATION	
IC104	X5482A00	IC	I C	OP AMP	
IC106	X5482A00	IC	I C	OP AMP	
IC403	X5482A00	IC	I C	OP AMP	
R119	RD156390	CARBON RESISTOR (CHIP)	チ ッ プ 抵 抗		
TR100	VJ927100	TRANSISTOR	ト ラ ン ジ ス タ	2 S C	
TR103	VJ927100	TRANSISTOR	ト ラ ン ジ ス タ	2 S C	
TR104	VJ92720R	TRANSISTOR	ト ラ ン ジ ス タ	2 S A	
TR105	WC883401	TRANSISTOR	ト ラ ン ジ ス タ	2 S D	
TR106	WC883401	TRANSISTOR	ト ラ ン ジ ス タ	2 S D	
C129	UR838101	ELECTROLYTIC CAPACITOR	ケ ミ コ ン		
C141	UR837470	ELECTROLYTIC CAPACITOR	ケ ミ コ ン		
C146	UR838101	ELECTROLYTIC CAPACITOR	ケ ミ コ ン		
C151	UR837470	ELECTROLYTIC CAPACITOR	ケ ミ コ ン		
C157	UN867100	ELECTROLYTIC CAPACITOR BP	B P ケ ミ コ ン		
C158	UN867100	ELECTROLYTIC CAPACITOR BP	B P ケ ミ コ ン		
C162	UR867100	ELECTROLYTIC CAPACITOR	ケ ミ コ ン		
C163	UR867100	ELECTROLYTIC CAPACITOR	ケ ミ コ ン		
C200	UR848220	ELECTROLYTIC CAPACITOR	ケ ミ コ ン		
C201	UR848220	ELECTROLYTIC CAPACITOR	ケ ミ コ ン		

*: New Parts

AJACK/HP/MOD/PB and DMM

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
C430	UN866470	ELECTROLYTIC CAPACITOR BP	4.70 50.0V RX TP	B P ケ ミ コ ン		
C432	UR867100	ELECTROLYTIC CAPACITOR	10.00 50.0V RX TP	ケ ミ コ ン		
C438	UR867100	ELECTROLYTIC CAPACITOR	10.00 50.0V RX TP	ケ ミ コ ン		
R138	HF454220	CARBON RESISTOR	22.0 1/4 J AX TP	カ ー ボ ン 抵 抗		
R140	HF454220	CARBON RESISTOR	22.0 1/4 J AX TP	カ ー ボ ン 抵 抗		
* C960	ZN123800	CIRCUIT BOARD	DMM	D M M シ ー ト	(YG546C0)	
C961	VQ755900	ELECTROLYTIC CAPACITOR BP	3.30 50.0V TATEJI	B P ケ ミ コ ン		
CN402	VQ755900	ELECTROLYTIC CAPACITOR BP	3.30 50.0V TATEJI	B P ケ ミ コ ン		
CN403	V6802600	USB JACK	USB 4P SE	U S B ジ ャ ッ ク	USB TO HOST	
JK001	WH780300	USB RECEPTACLE	UBA 4P SE	U S B リ セ プ タ ク ル	USB TO DEVICE	
JK001	VJ10720R	DIN CONNECTOR	5P YKF51-5050N	D I N コ ネ ク タ	} MIDI IN	
JK001	VZ085800	DIN CONNECTOR	5P HDC-052SP-01	D I N コ ネ ク タ		
JK002	VJ10720R	DIN CONNECTOR	5P YKF51-5050N	D I N コ ネ ク タ	} MIDI OUT	
JK002	VZ085800	DIN CONNECTOR	5P HDC-052SP-01	D I N コ ネ ク タ		
D201	VT532500	DIODE	1SR154-400 TE-25 1A 400V	ダ イ オ ー ド		
D802	VT532500	DIODE	1SR154-400 TE-25 1A 400V	ダ イ オ ー ド		
IC206	X4943D00	IC	W9825G6JH-6	I C	SDR-SDRAM 256M WORK	
IC207	X3584E00	IC	W9812G6JH-6	I C	SDR-SDRAM 128M WORK	
* IC209	YG611A00	IC	RP132S001D-E2-FE	I C	REGULATOR +1.3V	
IC800	X5049A0R	IC	NJM4556AM-TE1	I C	OP AMP	
IC801	X5482A00	IC	NE5532DR	I C	OP AMP	
IC803	X5482A00	IC	NE5532DR	I C	OP AMP	
-805	X5482A00	IC	NE5532DR	I C	OP AMP	
R250	RD150000	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チ ッ プ 抵 抗		
R256	RA156680	METAL FILM RESISTOR (CHIP)	6.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R257	RA156680	METAL FILM RESISTOR (CHIP)	6.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R258	RA157100	METAL FILM RESISTOR (CHIP)	10.0K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R259	RA157120	METAL FILM RESISTOR (CHIP)	12.0K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R497	RD155680	CARBON RESISTOR (CHIP)	680.0 1/4 J TP	チ ッ プ 抵 抗		
R498	RD155680	CARBON RESISTOR (CHIP)	680.0 1/4 J TP	チ ッ プ 抵 抗		
R868	RA156150	METAL FILM RESISTOR (CHIP)	1.5K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R874	RA156270	METAL FILM RESISTOR (CHIP)	2.7K 63M D RECT.	チ ッ プ 金 被 抵 抗		
-881	RA156270	METAL FILM RESISTOR (CHIP)	2.7K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R886	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
-889	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R892	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R893	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R894	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R895	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R896	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R897	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R898	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R899	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R900	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R901	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R902	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R903	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R913	RD15468R	CARBON RESISTOR (CHIP)	68.0 1/4 J TP	チ ッ プ 抵 抗		
R914	RD15468R	CARBON RESISTOR (CHIP)	68.0 1/4 J TP	チ ッ プ 抵 抗		
R933	RD15468R	CARBON RESISTOR (CHIP)	68.0 1/4 J TP	チ ッ プ 抵 抗		
R934	RD15468R	CARBON RESISTOR (CHIP)	68.0 1/4 J TP	チ ッ プ 抵 抗		
R959	RA156150	METAL FILM RESISTOR (CHIP)	1.5K 63M D RECT.	チ ッ プ 金 被 抵 抗		
C493	WV584900	ELECTROLYTIC CAPACITOR	150.00 10.0V CHIP	ケ ミ コ ン R V D		
C875	WN422600	ELECTROLYTIC CAPACITOR(CHIP)	1.00 50.0V TP	チ ッ プ ケ ミ コ ン U D		
* C876	ZH232500	ELECTROLYTIC CAPACITOR(CHIP)	10.00 25.0V CHIP	チ ッ プ ケ ミ コ ン U D		
* -881	ZH232500	ELECTROLYTIC CAPACITOR(CHIP)	10.00 25.0V CHIP	チ ッ プ ケ ミ コ ン U D		
C914	WN422300	ELECTROLYTIC CAPACITOR(CHIP)	47.00 35.0V TP	チ ッ プ ケ ミ コ ン U D		
C917	WQ574000	ELECTROLYTIC CAPACITOR(CHIP)	100 25V RVS-25V101	チ ッ プ ケ ミ コ ン		
C919	WQ574000	ELECTROLYTIC CAPACITOR(CHIP)	100 25V RVS-25V101	チ ッ プ ケ ミ コ ン		
* C929	ZH232500	ELECTROLYTIC CAPACITOR(CHIP)	10.00 25.0V CHIP	チ ッ プ ケ ミ コ ン U D		
C959	ZC041800	ELECTROLYTIC CAPACITOR(CHIP)	220.00 25.0V	チ ッ プ ケ ミ コ ン C L		
D401	VT532500	DIODE	1SR154-400 TE-25 1A 400V	ダ イ オ ー ド		
D600	VT532500	DIODE	1SR154-400 TE-25 1A 400V	ダ イ オ ー ド		
D800	V6267600	DIODE	RB051L-40 TP	ダ イ オ ー ド		
D801	V6267600	DIODE	RB051L-40 TP	ダ イ オ ー ド		
IC001	--	IC	R8A77310D333BG	I C	MAIN CPU (YC170A0)	
IC002	--	IC	YMW832-CZ	I C	SWP70 (YF447B0)	
IC004	X7701A00	IC	BU4229G-TR	I C	SYSTEM RESET	
IC007	YC019A00	IC	S-80944CNNB-G9ET2G	I C	SYSTEM RESET	

*: New Parts

DMM and EMKS61A and KNOB/PNM/PNS

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
* IC008	YG840B00	IC	S29GL512S10TFI020		C	NOR FLASH ROM 512M MAIN PROGRAM
IC010	--	IC	S29GL128S90TFI020		C	NOR FLASH ROM 128M BACKUP (YA121B0)
* IC018	YG621A00	IC	MB88155PFT-G-112		C	SPREAD SPECTRUM CLOCK GENERATOR
IC021	VR90370R	PHOTO COUPLER	HCPL-M600-500E	フ	ォ	ト
IC208	X4943D00	IC	W9825G6JH-6		ラ	SDR-SDRAM 256M WORK
IC405	YD546A00	IC	UPD720150GK-9EU-A		C	USB CONTROLLER
IC409	YD235A00	IC	R5524N002A-TR-FE		C	USB HIGH SIDE POWER SWITCH
IC412	YG554A00	IC	R1517S001C-E2-FE		C	REGULATOR +12V
* IC600	YG841B00	IC	S34ML02G100TFI000		C	NAND FLASH ROM 2G WAVE-L
* IC601	YG842B00	IC	S34ML02G100TFI000		C	NAND FLASH ROM 2G WAVE-H
IC602	X4943D00	IC	W9825G6JH-6		C	SDR-SDRAM 256M WAVE-WORK
* IC605	YA658C00	IC	W9864G6KH-5		C	SDR-SDRAM 64M DSP
* IC606	YG611A00	IC	RP132S001D-E2-FE		C	REGULATOR +1.0V
IC802	YD652A00	IC	YDA164C-QZE2		C	POWER AMPLIFIER 20Wx2
IC807	X8324A00	IC	AK4396VF-E2		C	DAC
IC808	X7585A01	IC	AK5357ET-E2		C	ADC
IC810	YD766A00	IC	ISL85033IRTZ-T		C	DC-DC CONVERTER
IC811	YF520A00	IC	R1190S050B-E2-FE		C	REGULATOR +5V
IC812	X7357B00	IC	PCM1803ADBR		C	ADC
R046	VI196800	METAL FILM RESISTOR (CHIP)	5.6K 1/10 D RECT.	チ	ッ	金
R047	RA156220	METAL FILM RESISTOR (CHIP)	2.2K 63M D RECT.	チ	ッ	金
R048	RA155470	METAL FILM RESISTOR (CHIP)	470.0 63M D RECT.	チ	ッ	金
R109	RD15447R	CARBON RESISTOR (CHIP)	47.0 1/4 J TP	チ	ッ	ブ
R668	RD150000	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チ	ッ	ブ
R680	RD150000	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チ	ッ	ブ
R681	RA156120	METAL FILM RESISTOR (CHIP)	1.2K 63M D RECT.	チ	ッ	金
R682	RA156470	METAL FILM RESISTOR (CHIP)	4.7K 63M D RECT.	チ	ッ	金
R917	RA156330	METAL FILM RESISTOR (CHIP)	3.3K 63M D RECT.	チ	ッ	金
R920	RA157510	METAL FILM RESISTOR (CHIP)	51.0K 63M D RECT.	チ	ッ	金
R923	RA157100	METAL FILM RESISTOR (CHIP)	10.0K 63M D RECT.	チ	ッ	金
R930	RA157100	METAL FILM RESISTOR (CHIP)	10.0K 63M D RECT.	チ	ッ	金
R931	RA157270	METAL FILM RESISTOR (CHIP)	27.0K 63M D RECT.	チ	ッ	金
R932	RA156470	METAL FILM RESISTOR (CHIP)	4.7K 63M D RECT.	チ	ッ	金
X001	ZF320500	QUARTZ CRYSTAL UNIT	32.768KHz DSO321SR	水	晶	発
X002	WN318100	RESONATOR QUARTZ	20MHz DSX321G	水	晶	振
X402	WG415900	QUARTZ CRYSTAL UNIT	30MHz DSX321G	水	晶	振
X800	WM284900	QUARTZ CRYSTAL UNIT	22.5792MHz DSX321G	水	晶	振
C0002	WF310500	CIRCUIT BOARD	EMKS61A(E-BUS)	E	M	K
UF038100	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ	ッ	ケ
IC001	X003120R	IC	UPD780031AYGK-N04		C	E-LKS
X0001	V615050R	CERAMIC RESONATOR	8.38MHz EFOS8384E5	セ	ラ	ミ
X0001	WU956300	CERAMIC RESONATOR	8.38MHz CSTCC8M38G56	セ	ラ	ミ
* ZP451300	ZP451300	CIRCUIT BOARD	KNOB	K	N	O
* ZP451000	ZP451000	CIRCUIT BOARD	PNM	P	N	M
* ZP451200	ZP451200	CIRCUIT BOARD	PNS	P	N	S
EC200	WZ590700	ENCODER	EC12E24204A2	1	2	形
VR100	VQ67050R	ROTARY VARIABLE RESISTOR	B 10K RK11K1130A0M	ロ	ー	タ
VR400	VQ032500	ROTARY VARIABLE RESISTOR	B 10.0K RK11K113	ロ	ー	タ
VR401	VQ032500	ROTARY VARIABLE RESISTOR	B 10.0K RK11K113	ロ	ー	タ
LD100	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD101	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD102	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD103	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD104	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD105	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ	ッ	2
LD106	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD107	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD108	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD109	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ	ッ	2
LD110	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ	ッ	2
LD111	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ	ッ	2
LD112	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD113	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD114	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD115	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD116	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ	ッ	2
LD117	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L
LD118	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	L

*: New Parts

KNOB/PNM/PNS and MK-H and MK-L and PNC/PNL/PNR

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
LD119	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	WORLD	
LD120	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	EXPANSION/USER	
LD200	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	ON/OFF LEFT HOLD	
LD201	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	ON/OFF LEFT	
LD202	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	HERMONY/ARPEGGIO	
LD203	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	ON/OFF RIGHT1	
LD204	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	TOUCH	
LD205	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	PIANO	
LD206	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	E.PIANO	
LD207	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	ORGAN	
LD208	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	ON/OFF RIGHT2	
LD209	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	SUSTAIN	
LD210	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	GUITAR	
LD211	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	BASS	
LD212	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	ACCORDION	
LD213	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	SELECT LEFT	
LD214	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	MONO	
LD215	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	STRINGS	
LD216	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	BRASS	
LD217	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	WOODWIND	
LD218	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	SELECT RIGHT1	
LD219	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	DSP	
LD220	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	CHOIR&PAD	
LD221	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	SYNTH	
LD222	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	PERCUSSION	
LD223	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	SELECT RIGHT2	
LD224	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	USB	
LD225	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	VARI	
LD226	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	DRUM KIT	
LD227	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	ORGAN FLUTES	
LD228	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	EXPANSION/USER	
C120	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ ッ プ ケ ミ コ ン		
C149	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ ッ プ ケ ミ コ ン		
C163	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ ッ プ ケ ミ コ ン		
C164	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ ッ プ ケ ミ コ ン		
C226	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ ッ プ ケ ミ コ ン		
C228	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ ッ プ ケ ミ コ ン		
C250	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ ッ プ ケ ミ コ ン		
C251	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ ッ プ ケ ミ コ ン		
C461	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ ッ プ ケ ミ コ ン		
FT100	ZA683700	FET	US6K1TR	F E T		
-104	ZA683700	FET	US6K1TR	F E T		
FT100	ZA777500	FET	US6K4TR TAPE	F E T		
-104	ZA777500	FET	US6K4TR TAPE	F E T		
FT200	ZA683700	FET	US6K1TR	F E T		
-204	ZA683700	FET	US6K1TR	F E T		
FT200	ZA777500	FET	US6K4TR TAPE	F E T		
-204	ZA777500	FET	US6K4TR TAPE	F E T		
IC100	YD841B00	IC	TMP89FW24AFG-7KH4	I C	E-PNS3a	
IC200	YD841B00	IC	TMP89FW24AFG-7KH4	I C	E-PNS3a	
R100	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ ッ プ 抵 抗		
R101	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ ッ プ 抵 抗		
R102	RD155120	CARBON RESISTOR (CHIP)	120.0 1/4 J TP	チ ッ プ 抵 抗		
R103	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ ッ プ 抵 抗		
R104	RD155120	CARBON RESISTOR (CHIP)	120.0 1/4 J TP	チ ッ プ 抵 抗		
R105	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ ッ プ 抵 抗		
R200	RD155120	CARBON RESISTOR (CHIP)	120.0 1/4 J TP	チ ッ プ 抵 抗		
R201	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ ッ プ 抵 抗		
-205	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ ッ プ 抵 抗		
R206	RD155120	CARBON RESISTOR (CHIP)	120.0 1/4 J TP	チ ッ プ 抵 抗		
R207	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ ッ プ 抵 抗		
	VU648200	CIRCUIT BOARD	MK-H	M K - H シ ー ト	(VU64800)(XR565C0)	
	VB941200	DIODE	1SS133,1SS176 TE-5	ダ イ オ ー ド	A#3-C6	54
	VU648101	CIRCUIT BOARD	MK-L	M K - L シ ー ト	(VU64790)(XR564C0)	
	VB941200	DIODE	1SS133,1SS176 TE-5	ダ イ オ ー ド	C1-A3	68
*	ZP450800	CIRCUIT BOARD	PNC	P N C シ ー ト	(ZN43320)(YG588D0)	
*	ZP450700	CIRCUIT BOARD	PNL	P N L シ ー ト	(ZN43320)(YG588D0)	

*: New Parts

PNC/PNL/PNR

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
*	ZP450900	CIRCUIT BOARD	PNR	P N R シ ー ト	(ZN43320)(YG588D0)	
LD100	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	ACMP	
LD101	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	INTRO I	
LD102	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	FADE IN/OUT	
LD103	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	INTRO II	
LD104	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	OTS LINK	
LD105	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	INTRO III	
LD106	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	AUTO FILL IN	
LD107	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	BREAK	
LD108	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	MAIN B	
LD109	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	MAIN C	
LD110	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	MAIN D	
LD111	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	BREAK	
LD112	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	ENDING I	
LD113	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	ENDING II	
LD114	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	ENDING III	
LD200	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	SYNC STOP	
LD201	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 1	
LD202	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	SYNC START	
LD203	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 2	
LD204	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	START/STOP	
LD205	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 3	
LD206	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 4	
LD207	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 5	
LD208	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 6	
LD209	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	FREEZE	
LD210	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 7	
LD211	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 8	
LD300	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	PAD CTRL 1	
LD301	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	PAD CTRL 2	
LD302	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	PAD CTRL 3	
LD303	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	PAD CTRL 4	
LD304	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	OTS 1	
LD305	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	OTS 2	
LD306	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	OTS 3	
LD307	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	OTS 4	
*	ZN547100	CRYSTAL DISPLAY	M070SWP1 R5	液 晶 デ ィ ス プ レ イ		
	YE178A00	SPEAKER	13.0cm 4ohm 20W	ス ピ ー カ		2
	YD681A00	LOUD SPEAKER	5.0cm 6ohm 10W	ス ピ ー カ		2

*: New Parts

PSR-S970 ELECTRICAL PARTS

AJACK/HP/MOD/PB

REF NO.	PART NO.	DESCRIPTION	部 品 名	REMARKS	QTY
		ELECTRICAL PARTS	電 気 部 品	PSR-S970	
*	ZP451400	CIRCUIT BOARD	AJACK	A J A C K シ ー ト	(ZN43330)(YG589F0)
*	ZP451500	CIRCUIT BOARD	HP	H P シ ー ト	(ZN43330)(YG589F0)
*	ZP451700	CIRCUIT BOARD	MOD	M O D シ ー ト	(ZN43330)(YG589F0)
*	ZP451600	CIRCUIT BOARD	PB	P B シ ー ト	(ZN43330)(YG589F0)
*	ZN123700	CIRCUIT BOARD	DMH	D M H シ ー ト	(YG545C0)
*	WF310500	CIRCUIT BOARD	EMKS61A(E-BUS)	E M K S 6 1 A シ ー ト	(WF31010)(X6637C0)
*	ZP451300	CIRCUIT BOARD	KNOB	K N O B シ ー ト	(ZN43310)(YG581D0)
*	ZP451000	CIRCUIT BOARD	PNM	P N M シ ー ト	(ZN43310)(YG581D0)
*	ZP451200	CIRCUIT BOARD	PNS	P N S シ ー ト	(ZN43310)(YG581D0)
*	VU648200	CIRCUIT BOARD	MK-H	M K - H シ ー ト	(VU64800)(XR565C0)
*	VU648101	CIRCUIT BOARD	MK-L	M K - L シ ー ト	(VU64790)(XR564C0)
*	ZP450800	CIRCUIT BOARD	PNC	P N C シ ー ト	(ZN43320)(YG588D0)
*	ZP450700	CIRCUIT BOARD	PNL	P N L シ ー ト	(ZN43320)(YG588D0)
*	ZP450900	CIRCUIT BOARD	PNR	P N R シ ー ト	(ZN43320)(YG588D0)
*	ZP451400	CIRCUIT BOARD	AJACK	A J A C K シ ー ト	(ZN43330)(YG589F0)
*	ZP451500	CIRCUIT BOARD	HP	H P シ ー ト	(ZN43330)(YG589F0)
*	ZP451700	CIRCUIT BOARD	MOD	M O D シ ー ト	(ZN43330)(YG589F0)
*	ZP451600	CIRCUIT BOARD	PB	P B シ ー ト	(ZN43330)(YG589F0)
	--	DC JACK PLATE		D C ジャック金具塗装品	(ZN88960)
C133	WE774301	BIND HEAD TAPPING SCREW-B	3.0X8 MFZN2W3	B タイト + B I N D	2
D100	UR749680	ELECTROLYTIC CAPACITOR	6800 25.0V FORM.	ケ ミ コ ン	
FT100	V9917100	DIODE	S3V60-5004P15 FOR.	ダイ オード	
	ZA675500	FET KB-290	TJ20A10M3 SUTO	F E T	
IC100	XJ602A00	IC	NJM78M12FA	I C	REGULATOR +12V
JK100	V814980R	DC CONNECTOR	DJ-0735-029	電 源 コ ネ ク タ	DC IN
JK102	VB23040R	PHONE CONNECTOR	YKB21-5352N	ホ ー ン コ ネ ク タ	AUX IN
JK102	ZA590000	PHONE CONNECTOR	JACK MINI STEREO	ホ ー ン コ ネ ク タ	
JK103	VS11540R	PHONE CONNECTOR BLACK	LGR4609-7100F	ホ ー ン コ ネ ク タ (黒)	OUTPUT L/L+R
JK104	VS11540R	PHONE CONNECTOR BLACK	LGR4609-7100F	ホ ー ン コ ネ ク タ (黒)	OUTPUT R
JK105	VS11540R	PHONE CONNECTOR BLACK	LGR4609-7100F	ホ ー ン コ ネ ク タ (黒)	FOOT PEDAL 1
JK106	VS11540R	PHONE CONNECTOR BLACK	LGR4609-7100F	ホ ー ン コ ネ ク タ (黒)	FOOT PEDAL 2
JK200	WJ306200	PHONE CONNECTOR	MSJ-064-15A B AG	ホ ー ン コ ネ ク タ	PHONES
JK401	WJ306200	PHONE CONNECTOR	MSJ-064-15A B AG	ホ ー ン コ ネ ク タ	MIC/GUITART INPUT
L102	--	LINE FILTER	UF1815SG-800Y3R0-0	ラ イン フィ ル タ ー	(ZC24080)
L107	--	COIL	SBT-0240TF TATETE	コ イ ル	(ZK72630)
-110	--	COIL	SBT-0240TF TATETE	コ イ ル	(ZK72630)
L113	--	COIL	SBT-0240TF TATETE	コ イ ル	(ZK72630)
L114	--	COIL	SBT-0240TF TATETE	コ イ ル	(ZK72630)
L116	--	COIL	10uH SBT-0210T	コ イ ル	(VT73340)
L117	--	COIL	10uH SBT-0210T	コ イ ル	(VT73340)
RY200	V824560R	RELAY	DC ATX203 12V	リ レ ー	
RY200	V8616501	RELAY	DC G6S-2 12V	リ レ ー 1 2 V	
RY200	WB17080R	RELAY	DC NA-12W-K 12V	リ レ ー 1 2 V	
RY200	WB751900	RELAY	DC EC2-12NU-F 12V	リ レ ー 1 2 V	
SW400	VQ545800	SLIDE SWITCH	SSSF121900	ス ラ イ ド S W	MIC GUITAR
TH100	VV45800R	PROTECTOR SWITCH	RUEF250 2.50A 30V	ポ リ ス イ ッ チ	
VR400	ZA774900	ROTARY VARIABLE RESISTOR	A 10.0K RK09K1110D	ロ ー タ リ ー V R	GAIN
VR401	WZ510000	ROTARY VARIABLE RESISTOR	B 10.0K RK11K1110D	ロ ー タ リ ー V R	PITCH BEND
VR402	WZ510000	ROTARY VARIABLE RESISTOR	B 10.0K RK11K1110D	ロ ー タ リ ー V R	MODULATION
IC104	X5482A00	IC	NE5532DR	I C	OP AMP
IC106	X5482A00	IC	NE5532DR	I C	OP AMP
IC403	X5482A00	IC	NE5532DR	I C	OP AMP
R119	RD156390	CARBON RESISTOR (CHIP)	3.9K 1/4 J TP	チ ッ プ 抵 抗	
TR100	VJ927100	TRANSISTOR	2SC2712-Y(TE85R,F)	ト ラ ン ジ ス タ 2 S C	
TR103	VJ927100	TRANSISTOR	2SC2712-Y(TE85R,F)	ト ラ ン ジ ス タ 2 S C	
TR104	VJ92720R	TRANSISTOR	2SA1162-Y(TE85R,F)	ト ラ ン ジ ス タ 2 S A	
TR105	WC883401	TRANSISTOR	2SD2704 K TP	ト ラ ン ジ ス タ 2 S D	
TR106	WC883401	TRANSISTOR	2SD2704 K TP	ト ラ ン ジ ス タ 2 S D	
C129	UR838101	ELECTROLYTIC CAPACITOR	100.00 16.0V RX TP	ケ ミ コ ン	
C141	UR837470	ELECTROLYTIC CAPACITOR	47.00 16.0V RX TP	ケ ミ コ ン	
C146	UR838101	ELECTROLYTIC CAPACITOR	100.00 16.0V RX TP	ケ ミ コ ン	
C151	UR837470	ELECTROLYTIC CAPACITOR	47.00 16.0V RX TP	ケ ミ コ ン	
C157	UN867100	ELECTROLYTIC CAPACITOR BP	10.00 50.0V RX TP	B P ケ ミ コ ン	
C158	UN867100	ELECTROLYTIC CAPACITOR BP	10.00 50.0V RX TP	B P ケ ミ コ ン	
C162	UR867100	ELECTROLYTIC CAPACITOR	10.00 50.0V RX TP	ケ ミ コ ン	
C163	UR867100	ELECTROLYTIC CAPACITOR	10.00 50.0V RX TP	ケ ミ コ ン	
C200	UR848220	ELECTROLYTIC CAPACITOR	220.00 25.0V RX TP	ケ ミ コ ン	
C201	UR848220	ELECTROLYTIC CAPACITOR	220.00 25.0V RX TP	ケ ミ コ ン	

*: New Parts

AJACK/HP/MOD/PB and DMH

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
C430	UN866470	ELECTROLYTIC CAPACITOR BP	4.70 50.0V RX TP	B P ケ ミ コ ン		
C432	UR867100	ELECTROLYTIC CAPACITOR	10.00 50.0V RX TP	ケ ミ コ ン		
C438	UR867100	ELECTROLYTIC CAPACITOR	10.00 50.0V RX TP	ケ ミ コ ン		
R138	HF454220	CARBON RESISTOR	22.0 1/4 J AX TP	カ ー ボ ン 抵 抗		
R140	HF454220	CARBON RESISTOR	22.0 1/4 J AX TP	カ ー ボ ン 抵 抗		
*	ZN123700	CIRCUIT BOARD	DMH	D M H シ ー ト	(YG545C0)	
C494	UN838220	ELECTROLYTIC CAPACITOR BP	220.00 16.0V RX TP	B P ケ ミ コ ン		
C498	UN838220	ELECTROLYTIC CAPACITOR BP	220.00 16.0V RX TP	B P ケ ミ コ ン		
C503	UN838220	ELECTROLYTIC CAPACITOR BP	220.00 16.0V RX TP	B P ケ ミ コ ン		
CN402	V6802600	USB JACK	USB 4P SE	U S B ジ ャ ッ ク	USB TO HOST	
CN403	WH780300	USB RECEPTACLE	UBA 4P SE	U S B リ セ プ タ ク ル	USB TO DEVICE	
CN404	ZS548800	D-SUB CONNECTOR	15P SE	D - S u b コ ネ ク タ		
JK001	VJ10720R	DIN CONNECTOR	5P YKF51-5050N	D I N コ ネ ク タ	MIDI IN	
JK001	VZ085800	DIN CONNECTOR	5P HDC-052SP-01	D I N コ ネ ク タ		
JK002	VJ10720R	DIN CONNECTOR	5P YKF51-5050N	D I N コ ネ ク タ	MIDI OUT	
JK002	VZ085800	DIN CONNECTOR	5P HDC-052SP-01	D I N コ ネ ク タ		
D201	VT532500	DIODE	1SR154-400 TE-25 1A 400V	ダ イ オ ー ド		
D802	VT532500	DIODE	1SR154-400 TE-25 1A 400V	ダ イ オ ー ド		
IC206	X3584E00	IC	W9812G6JH-6	I	SDR-SDRAM 128M WORK	
IC207	X4943D00	IC	W9825G6JH-6	I	SDR-SDRAM 256M WORK	
IC209	YG611A00	IC	RP132S001D-E2-FE	I	REGULATOR +1.3V	
IC800	X5049A0R	IC	NJM4556AM-TE1	I	OP AMP	
IC801	X5482A00	IC	NE5532DR	I	OP AMP	
IC803	X5482A00	IC	NE5532DR	I	OP AMP	
-805	X5482A00	IC	NE5532DR	I	OP AMP	
R250	RD150000	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チ ッ プ 抵 抗		
R256	RA156680	METAL FILM RESISTOR (CHIP)	6.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R257	RA156680	METAL FILM RESISTOR (CHIP)	6.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R258	RA157100	METAL FILM RESISTOR (CHIP)	10.0K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R259	RA157120	METAL FILM RESISTOR (CHIP)	12.0K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R497	RD155680	CARBON RESISTOR (CHIP)	680.0 1/4 J TP	チ ッ プ 抵 抗		
R498	RD155680	CARBON RESISTOR (CHIP)	680.0 1/4 J TP	チ ッ プ 抵 抗		
R868	RA156150	METAL FILM RESISTOR (CHIP)	1.5K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R874	RA156270	METAL FILM RESISTOR (CHIP)	2.7K 63M D RECT.	チ ッ プ 金 被 抵 抗		
-881	RA156270	METAL FILM RESISTOR (CHIP)	2.7K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R886	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
-889	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R892	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R893	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R894	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R895	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R896	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R897	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R898	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R899	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R900	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R901	RA156820	METAL FILM RESISTOR (CHIP)	8.2K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R902	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R903	RA156180	METAL FILM RESISTOR (CHIP)	1.8K 63M D RECT.	チ ッ プ 金 被 抵 抗		
R913	RD15468R	CARBON RESISTOR (CHIP)	68.0 1/4 J TP	チ ッ プ 抵 抗		
R914	RD15468R	CARBON RESISTOR (CHIP)	68.0 1/4 J TP	チ ッ プ 抵 抗		
R933	RD15468R	CARBON RESISTOR (CHIP)	68.0 1/4 J TP	チ ッ プ 抵 抗		
R934	RD15468R	CARBON RESISTOR (CHIP)	68.0 1/4 J TP	チ ッ プ 抵 抗		
R959	RA156150	METAL FILM RESISTOR (CHIP)	1.5K 63M D RECT.	チ ッ プ 金 被 抵 抗		
C493	WV584900	ELECTROLYTIC CAPACITOR	150.00 10.0V CHIP	ケ ミ コ ン R V D		
C875	WN422600	ELECTROLYTIC CAPACITOR(CHIP)	1.00 50.0V TP	チ ッ プ ケ ミ コ ン U D		
C876	ZH232500	ELECTROLYTIC CAPACITOR(CHIP)	10.00 25.0V CHIP	チ ッ プ ケ ミ コ ン U D		
* -881	ZH232500	ELECTROLYTIC CAPACITOR(CHIP)	10.00 25.0V CHIP	チ ッ プ ケ ミ コ ン U D		
C914	WN422300	ELECTROLYTIC CAPACITOR(CHIP)	47.00 35.0V TP	チ ッ プ ケ ミ コ ン U D		
C917	WQ574000	ELECTROLYTIC CAPACITOR(CHIP)	100 25V RVS-25V101	チ ッ プ ケ ミ コ ン		
C919	WQ574000	ELECTROLYTIC CAPACITOR(CHIP)	100 25V RVS-25V101	チ ッ プ ケ ミ コ ン		
* C929	ZH232500	ELECTROLYTIC CAPACITOR(CHIP)	10.00 25.0V CHIP	チ ッ プ ケ ミ コ ン U D		
C959	ZC041800	ELECTROLYTIC CAPACITOR(CHIP)	220.00 25.0V	チ ッ プ ケ ミ コ ン C L		
C960	WQ574000	ELECTROLYTIC CAPACITOR(CHIP)	100 25V RVS-25V101	チ ッ プ ケ ミ コ ン		
D401	VT532500	DIODE	1SR154-400 TE-25 1A 400V	ダ イ オ ー ド		
D600	VT532500	DIODE	1SR154-400 TE-25 1A 400V	ダ イ オ ー ド		
D800	V6267600	DIODE	RB051L-40 TP	ダ イ オ ー ド		
D801	V6267600	DIODE	RB051L-40 TP	ダ イ オ ー ド		
IC001	--	IC	R8A77310D333BG	I	MAIN CPU (YC170A0)	

*: New Parts

DMH and EMKS61A and KNOB/PNM/PNS

REF NO.	PART NO.	DESCRIPTION		部	品	名	REMARKS	QTY
IC002	--	IC	YMW832-CZ			C	SWP70 (YF447B0)	
IC004	X7701A00	IC	BU4229G-TR			C	SYSTEM RESET	
IC007	YC019A00	IC	S-80944CNB-G9ET2G			C	SYSTEM RESET	
* IC008	YG830C00	IC	S29GL512S10TFI020			C	NOR FLASH ROM 512M BOOT/PROGRAM	
IC010	--	IC	S29GL128S90TFI020			C	NOR FLASH ROM 128M BACKUP (YA121B0)	
* IC018	YG621A00	IC	MB88155PFT-G-112			C	SPREAD SPECTRUM CLOCK GENERATOR	
IC021	VR90370R	PHOTO COUPLER	HCPL-M600-500E		フ	オ	ト	カ
IC201	X3584E00	IC	W9812G6JH-6			C	SDR-SDRAM 128M WORK	
* IC202	YG836B00	IC	S34ML04G100TFI000			C	NAND FLASH ROM 4G AUDIO STYLE-L	
* IC203	YG837B00	IC	S34ML02G100TFI000			C	NAND FLASH ROM 2G AUDIO STYLE-H	
IC205	X3584E00	IC	W9812G6JH-6			C	SDR-SDRAM 128M WORK	
IC208	X3584E00	IC	W9812G6JH-6			C	SDR-SDRAM 128M WORK	
IC405	YD546A00	IC	UPD720150GK-9EU-A			C	USB CONTROLLER	
IC407	X6356B00	IC	YGV628B-VZ			C	RGB CONTROLLER AVDP7	
IC409	YD235A00	IC	R5524N002A-TR-FE			C	USB HIGH SIDE POWER SWITCH	
IC410	X5693D00	IC	M12L16161A-7TG2Q			C	SDR-SDRAM 16M GRAPHIC	
IC412	YG554A00	IC	R1517S001C-E2-FE			C	REGULATOR +12V	
* IC600	YG838B00	IC	S34ML08G101TFI000			C	NAND FLASH ROM 8G WAVE-L	
* IC601	YG839B00	IC	S34ML08G101TFI000			C	NAND FLASH ROM 8G WAVE-H	
* IC602	X4943D00	IC	W9825G6JH-6			C	SDR-SDRAM 256M WAVE-WORK	
* IC605	YA658C00	IC	W9864G6KH-5			C	SDR-SDRAM 64M DSP	
* IC606	YG611A00	IC	RP132S001D-E2-FE			C	REGULATOR +1.0V	
IC802	YD652A00	IC	YDA164C-QZE2			C	POWER AMPLIFIER 20Wx2	
IC806	YD652A00	IC	YDA164C-QZE2			C	POWER AMPLIFIER 20Wx2	
IC807	X8324A00	IC	AK4396VF-E2			C	DAC	
IC808	X5219A0R	IC	AK5381VT-E2			C	ADC	
IC809	X7585A01	IC	AK5357ET-E2			C	ADC	
IC810	YD766A00	IC	ISL85033IRTZ-T			C	DC-DC CONVERTER	
IC811	YF520A00	IC	R1190S050B-E2-FE			C	REGULATOR +5V	
R046	VI196800	METAL FILM RESISTOR (CHIP)	5.6K 1/10 D RECT.	チ	ッ	プ	金	被
R047	RA156220	METAL FILM RESISTOR (CHIP)	2.2K 63M D RECT.	チ	ッ	プ	金	被
R048	RA155470	METAL FILM RESISTOR (CHIP)	470.0 63M D RECT.	チ	ッ	プ	金	被
R109	RD15447R	CARBON RESISTOR (CHIP)	47.0 1/4 J TP	チ	ッ	プ	抵	抗
R440	RA156680	METAL FILM RESISTOR (CHIP)	6.8K 63M D RECT.	チ	ッ	プ	金	被
R477	RD15433R	CARBON RESISTOR (CHIP)	33.0 1/4 J TP	チ	ッ	プ	抵	抗
R480	RD15433R	CARBON RESISTOR (CHIP)	33.0 1/4 J TP	チ	ッ	プ	抵	抗
R668	RD150000	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チ	ッ	プ	抵	抗
R680	RD150000	CARBON RESISTOR (CHIP)	0.0 1/4 J TP	チ	ッ	プ	抵	抗
R681	RA156120	METAL FILM RESISTOR (CHIP)	1.2K 63M D RECT.	チ	ッ	プ	金	被
R682	RA156470	METAL FILM RESISTOR (CHIP)	4.7K 63M D RECT.	チ	ッ	プ	金	被
R917	RA156330	METAL FILM RESISTOR (CHIP)	3.3K 63M D RECT.	チ	ッ	プ	金	被
R920	RA157510	METAL FILM RESISTOR (CHIP)	51.0K 63M D RECT.	チ	ッ	プ	金	被
R923	RA157100	METAL FILM RESISTOR (CHIP)	10.0K 63M D RECT.	チ	ッ	プ	金	被
R930	RA157100	METAL FILM RESISTOR (CHIP)	10.0K 63M D RECT.	チ	ッ	プ	金	被
R931	RA157270	METAL FILM RESISTOR (CHIP)	27.0K 63M D RECT.	チ	ッ	プ	金	被
R932	RA156470	METAL FILM RESISTOR (CHIP)	4.7K 63M D RECT.	チ	ッ	プ	金	被
TA401	V273190R	TRANSISTOR (PAIR)	IMX9	ハ	エ	ト	ラ	ン
X001	ZF320500	QUARTZ CRYSTAL UNIT	32.768KHz DSO321SR	水	晶	発	振	器
X002	WN318100	RESONATOR QUARTZ	20MHz DSX321G	水	晶	振	動	子
X401	WN318100	RESONATOR QUARTZ	20MHz DSX321G	水	晶	振	動	子
X402	WG415900	QUARTZ CRYSTAL UNIT	30MHz DSX321G	水	晶	振	動	子
X800	WM284900	QUARTZ CRYSTAL UNIT	22.5792MHz DSX321G	水	晶	振	動	子
C0002	WF310500	CIRCUIT BOARD	EMKS61A(E-BUS)	E	M	K	S	6
	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ	ッ	プ	ケ	ミ
IC001	X003120R	IC	UPD780031AYGK-N04			C	E-LKS	
X0001	V615050R	CERAMIC RESONATOR	8.38MHz EFOS8384E5	セ	ラ	ミ	ッ	ク
X0001	WU956300	CERAMIC RESONATOR	8.38MHz CSTC8M38G56	セ	ラ	ミ	ッ	ク
* X0001	ZP451300	CIRCUIT BOARD	KNOB	K	N	O	B	シ
* X0001	ZP451000	CIRCUIT BOARD	PNM	P	N	M	シ	ー
* X0001	ZP451200	CIRCUIT BOARD	PNS	P	N	S	シ	ー
EC200	WZ590700	ENCODER	EC12E24204A2	1	2	形	エ	ン
VR100	VQ67050R	ROTARY VARIABLE RESISTOR	B 10K RK11K1130A0M	ロ	ー	タ	リ	ー
VR400	VQ032500	ROTARY VARIABLE RESISTOR	B 10.0K RK11K113	ロ	ー	タ	リ	ー
VR401	VQ032500	ROTARY VARIABLE RESISTOR	B 10.0K RK11K113	ロ	ー	タ	リ	ー
LD100	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	プ	L	E
LD101	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	プ	L	E
LD102	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	プ	L	E
LD103	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	プ	L	E

*: New Parts

KNOB/PNM/PNS

REF NO.	PART NO.	DESCRIPTION	部	品	名	REMARKS	QTY		
LD104	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	BALLAD	
LD105	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ	ッ	ブ	2 色 L E D	MIC SETTING/VOCAL HARMONY	
LD106	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	SWIMG&JAZZ	
LD107	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	R&B	
LD108	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	COUNTRY	
LD109	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ	ッ	ブ	2 色 L E D	EXTRA TR	
LD110	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ	ッ	ブ	2 色 L E D	PLAY/PAUSE	
LD111	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ	ッ	ブ	2 色 L E D	TR2	
LD112	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	LATIN	
LD113	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	BALLROOM	
LD114	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	MOVIE&SHOW	
LD115	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	GUIDE	
LD116	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ	ッ	ブ	2 色 L E D	TR1	
LD117	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	METRONOME	
LD118	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	ENTERTAINER	
LD119	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	WORLD	
LD120	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	EXPANSION/USER	
LD200	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	ON/OFF LEFT HOLD	
LD201	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	ON/OFF LEFT	
LD202	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	HERMONY/ARPEGGIO	
LD203	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	ON/OFF RIGHT1	
LD204	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	TOUCH	
LD205	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	PIANO	
LD206	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	E.PIANO	
LD207	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	ORGAN	
LD208	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	ON/OFF RIGHT2	
LD209	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	SUSTAIN	
LD210	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	GUITAR	
LD211	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	BASS	
LD212	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	ACCORDION	
LD213	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	SELECT LEFT	
LD214	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	MONO	
LD215	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	STRINGS	
LD216	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	BRASS	
LD217	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	WOODWIND	
LD218	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	SELECT RIGHT1	
LD219	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	DSP	
LD220	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	CHOIR&PAD	
LD221	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	SYNTH	
LD222	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	PERCUSSION	
LD223	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	SELECT RIGHT2	
LD224	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	USB	
LD225	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	VARI	
LD226	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	DRUM KIT	
LD227	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	ORGAN FLUTES	
LD228	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ	ッ	ブ	L E D	EXPANSION/USER	
C120	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ	ッ	ブ	ケ ミ コ ン		
C149	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ	ッ	ブ	ケ ミ コ ン		
C163	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ	ッ	ブ	ケ ミ コ ン		
C164	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ	ッ	ブ	ケ ミ コ ン		
C226	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ	ッ	ブ	ケ ミ コ ン		
C228	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ	ッ	ブ	ケ ミ コ ン		
C250	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ	ッ	ブ	ケ ミ コ ン		
C251	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ	ッ	ブ	ケ ミ コ ン		
C461	UF038100	ELECTROLYTIC CAPACITOR(CHIP)	100 16V	チ	ッ	ブ	ケ ミ コ ン		
FT100	ZA683700	FET	US6K1TR	F	E	T			
-104	ZA683700	FET	US6K1TR	F	E	T			
FT100	ZA777500	FET	US6K4TR TAPE	F	E	T			
-104	ZA777500	FET	US6K4TR TAPE	F	E	T			
FT200	ZA683700	FET	US6K1TR	F	E	T			
-204	ZA683700	FET	US6K1TR	F	E	T			
FT200	ZA777500	FET	US6K4TR TAPE	F	E	T			
-204	ZA777500	FET	US6K4TR TAPE	F	E	T			
IC100	YD841B00	IC	TMP89FW24AFG-7KH4	I	C			E-PNS3a	
IC200	YD841B00	IC	TMP89FW24AFG-7KH4	I	C			E-PNS3a	
R100	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ	ッ	ブ	抵 抗		
R101	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ	ッ	ブ	抵 抗		
R102	RD155120	CARBON RESISTOR (CHIP)	120.0 1/4 J TP	チ	ッ	ブ	抵 抗		
R103	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ	ッ	ブ	抵 抗		
R104	RD155120	CARBON RESISTOR (CHIP)	120.0 1/4 J TP	チ	ッ	ブ	抵 抗		

*: New Parts

KNOB/PNM/PNS and MK-H and MK-L and PNC/PNL/PNR

REF NO.	PART NO.	DESCRIPTION		部 品 名	REMARKS	QTY
R105	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ ッ プ 抵 抗		
R200	RD155120	CARBON RESISTOR (CHIP)	120.0 1/4 J TP	チ ッ プ 抵 抗		
R201	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ ッ プ 抵 抗		
-205	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ ッ プ 抵 抗		
R206	RD155120	CARBON RESISTOR (CHIP)	120.0 1/4 J TP	チ ッ プ 抵 抗		
R207	RD15518R	CARBON RESISTOR (CHIP)	180.0 1/4 J TP	チ ッ プ 抵 抗		
	VU648200	CIRCUIT BOARD	MK-H	M K - H シ ー ト	(VU64800)(XR565C0)	
	VB941200	DIODE	1SS133,1SS176 TE-5	ダ イ オ ー ド	A#3-C6	54
	VU648101	CIRCUIT BOARD	MK-L	M K - L シ ー ト	(VU64790)(XR564C0)	
	VB941200	DIODE	1SS133,1SS176 TE-5	ダ イ オ ー ド	C1-A3	68
*	ZP450800	CIRCUIT BOARD	PNC	P N C シ ー ト	(ZN43320)(YG588D0)	
*	ZP450700	CIRCUIT BOARD	PNL	P N L シ ー ト	(ZN43320)(YG588D0)	
*	ZP450900	CIRCUIT BOARD	PNR	P N R シ ー ト	(ZN43320)(YG588D0)	
LD100	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	ACMP	
LD101	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	INTRO I	
LD102	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	FADE IN/OUT	
LD103	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	INTRO II	
LD104	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	OTS LINK	
LD105	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	INTRO III	
LD106	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	AUTO FILL IN	
LD107	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	MAIN A	
LD108	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	MAIN B	
LD109	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	MAIN C	
LD110	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	MAIN D	
LD111	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	BREAK	
LD112	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	ENDING I	
LD113	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	ENDING II	
LD114	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	ENDING III	
LD200	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	SYNC STOP	
LD201	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 1	
LD202	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	SYNC START	
LD203	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 2	
LD204	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	START/STOP	
LD205	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 3	
LD206	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 4	
LD207	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 5	
LD208	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 6	
LD209	WJ491700	LED (CHIP) AMBER	BL-HJF36J-TRB	チ ッ プ L E D	FREEZE	
LD210	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 7	
LD211	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	REG 8	
LD300	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	PAD CTRL 1	
LD301	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	PAD CTRL 2	
LD302	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	PAD CTRL 3	
LD303	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	PAD CTRL 4	
LD304	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	OTS 1	
LD305	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	OTS 2	
LD306	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	OTS 3	
LD307	WJ491600	LED (CHIP) AMBER/Y.GREEN	BL-HJFGE36J-TRB	チ ッ プ 2 色 L E D	OTS 4	
*	ZN547100	CRYSTAL DISPLAY	M070SWP1 R5	液 晶 デ ィ ス プ レ イ		
	YE177A00	SPEAKER	13.0cm 4ohm 35W	ス ピ ー カ	WOOFER	2
	YE179A00	SPEAKER	2.5cm 4ohm 20W	ス ピ ー カ	TWEETER	2

*: New Parts

DIGITAL WORKSTATION




CIRCUIT DIAGRAM

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PSR-S770 BLOCK DIAGRAM.....	3
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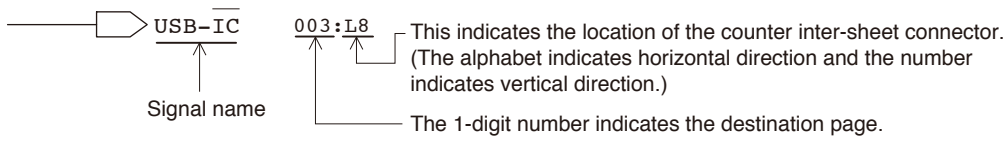
Note : See parts list for details of circuit board component parts.

■ WARNING

Components having special characteristics are marked  and must be replaced with parts having specification equal to those originally installed.

Notation for Circuit Diagrams

1. How to identify inter-sheet connectors



2. Connection of connectors.

(Example) to PNM-CN100
<Page 16: P-2>

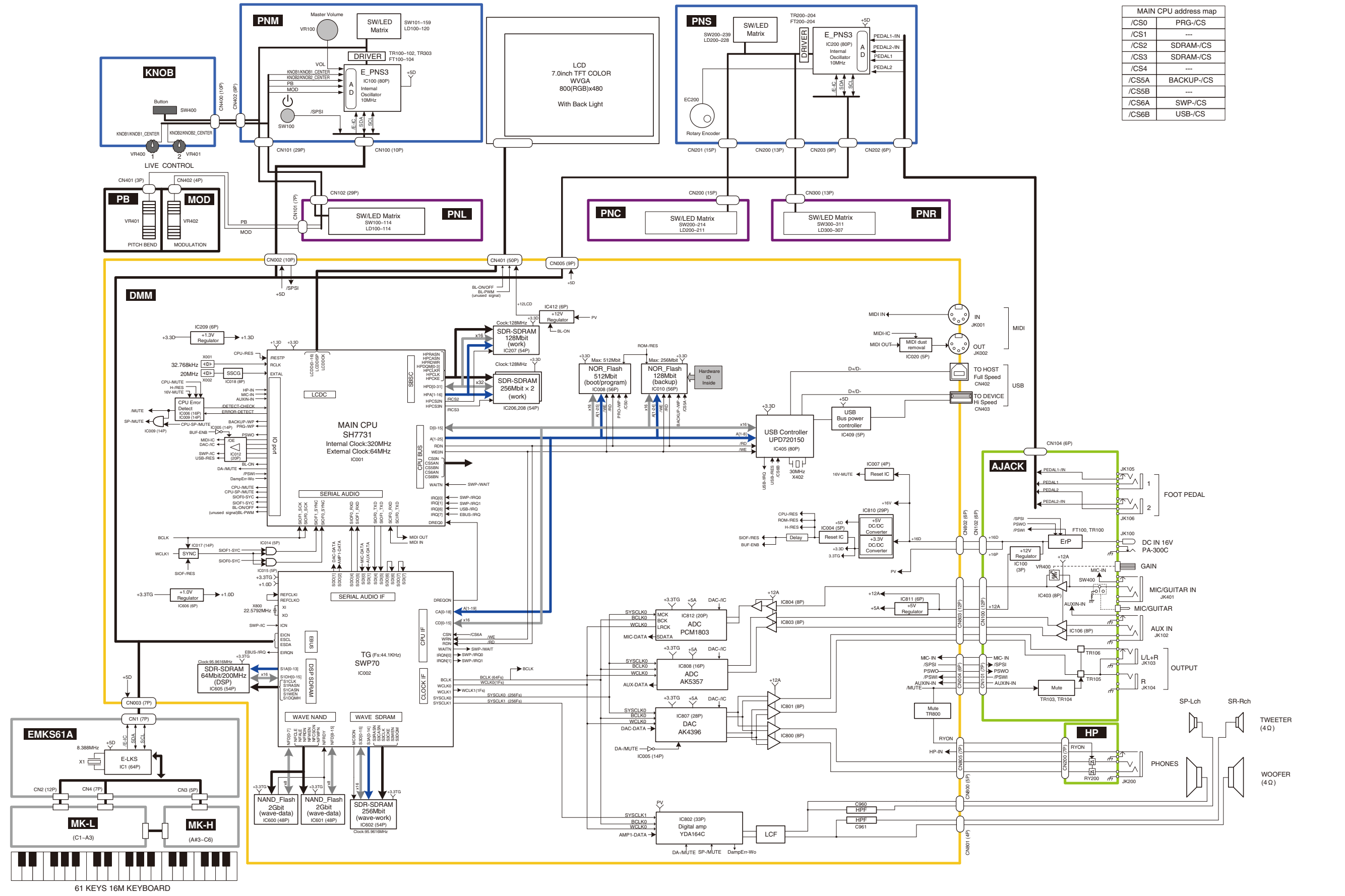
Page 16 are the page of a circuit diagram.

P-2 is indicates the location of the counter inter-circuit board connector.
(The alphabet indicates horizontal direction and the number indicates vertical direction.)

PSR-S770 BLOCK DIAGRAM

PSR-S770/PSR-S970

MAIN CPU address map	
/CS0	PRG-/CS
/CS1	---
/CS2	SDRAM-/CS
/CS3	SDRAM-/CS
/CS4	---
/CS5A	BACKUP-/CS
/CS5B	---
/CS6A	SWP-/CS
/CS6B	USB-/CS



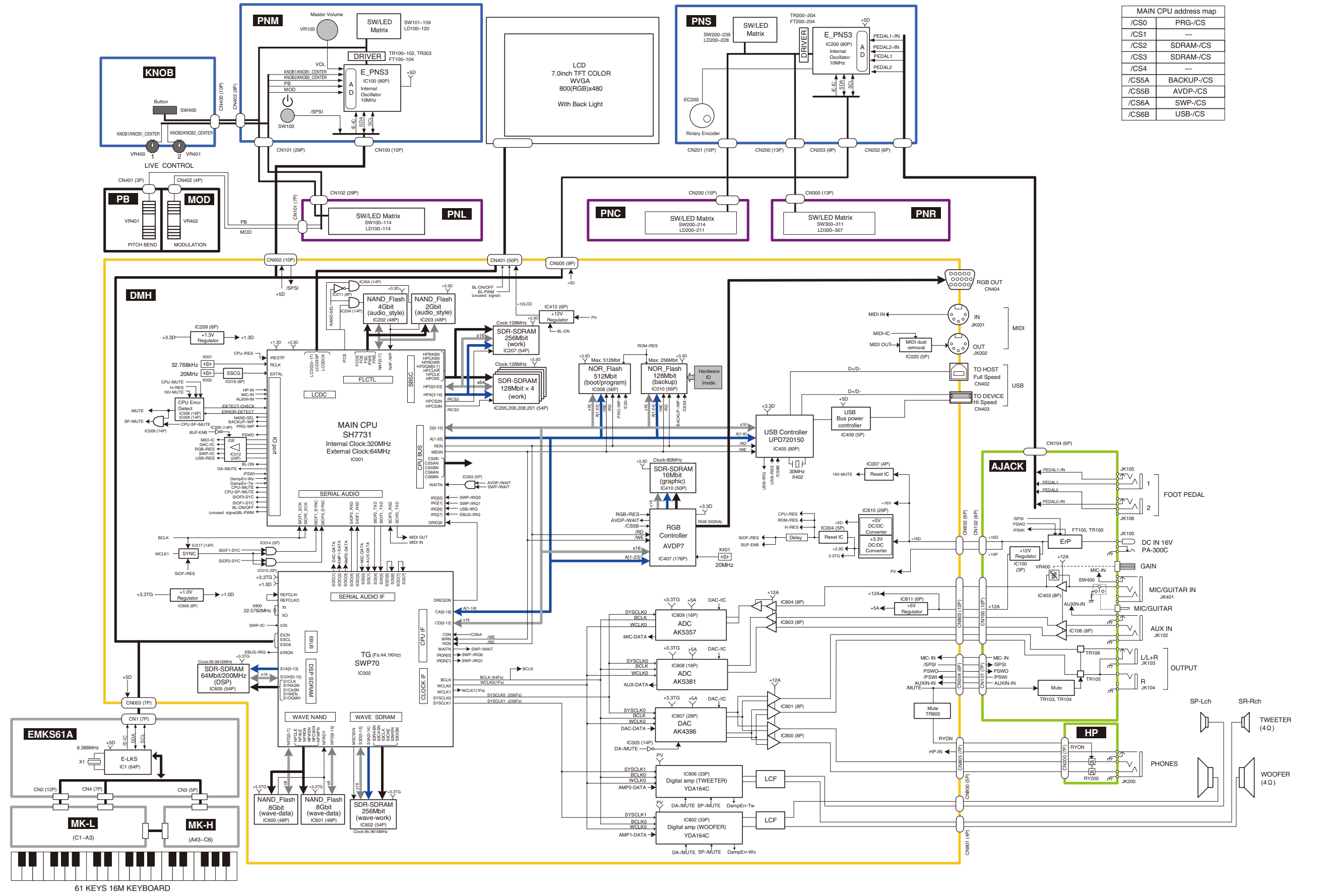
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PSR-S770 BLOCK DIAGRAM

PSR-S970 BLOCK DIAGRAM

PSR-S770/PSR-S970

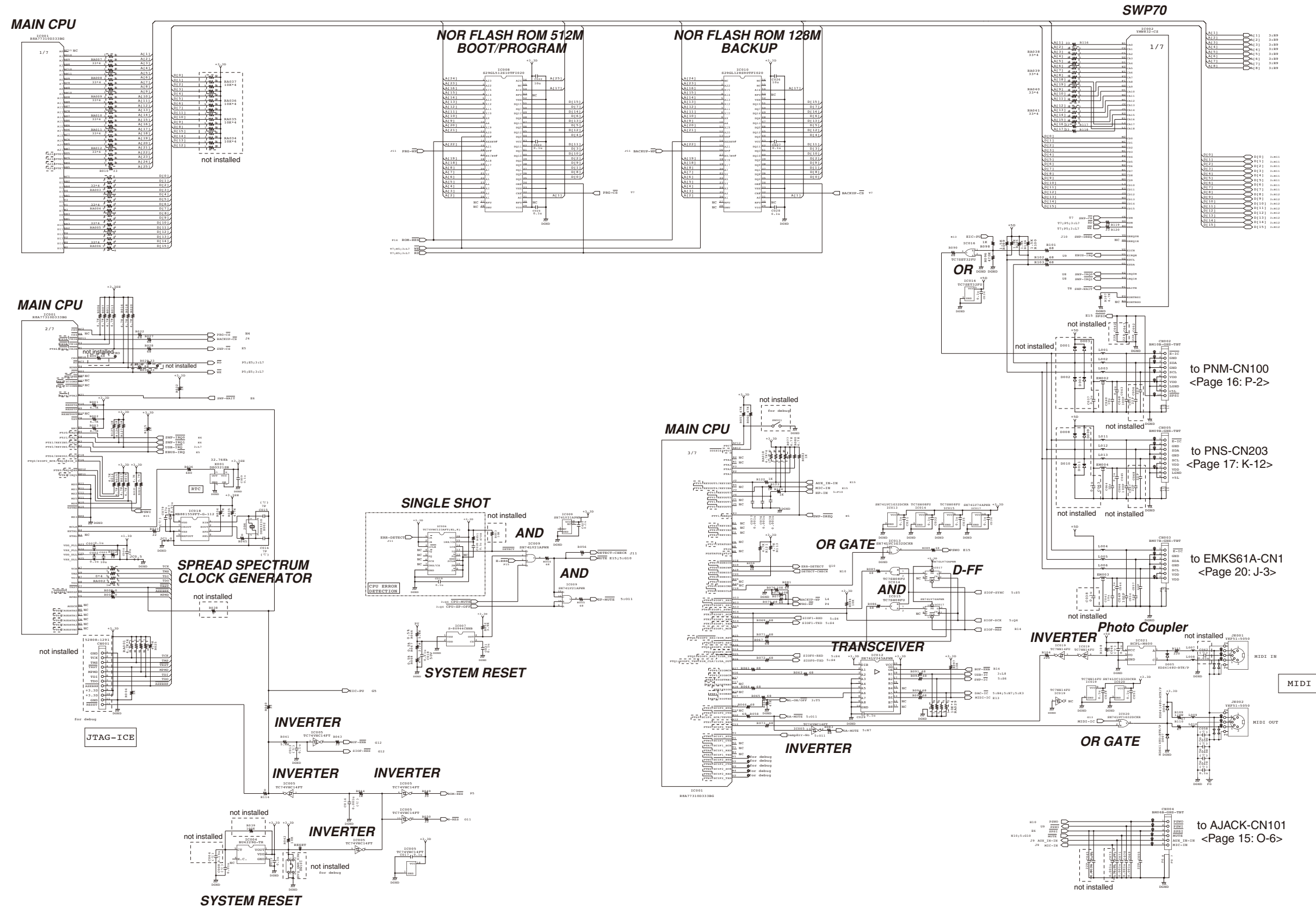
MAIN CPU address map	
/CS0	PRG-/CS
/CS1	---
/CS2	SDRAM-/CS
/CS3	SDRAM-/CS
/CS4	---
/CS5A	BACKUP-/CS
/CS5B	AVDP-/CS
/CS6A	SWP-/CS
/CS6B	USB-/CS



28CA1-2001145917

PSR-S970 BLOCK DIAGRAM

DMM 001 CIRCUIT DIAGRM (PSR-S770)



to PNM-CN100
<Page 16: P-2>

to PNS-CN203
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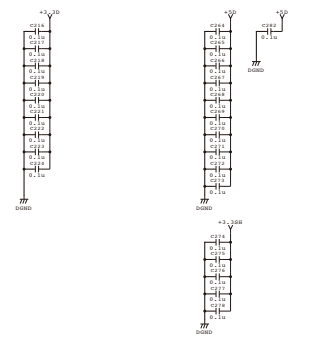
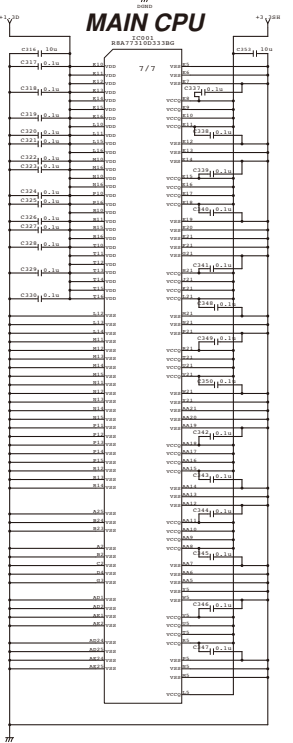
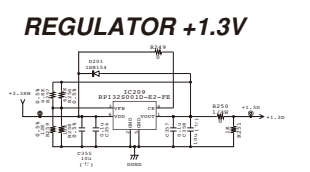
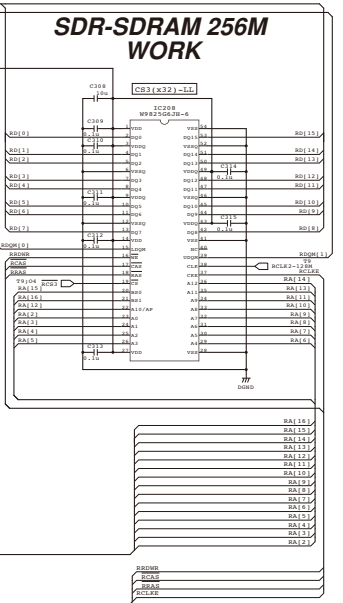
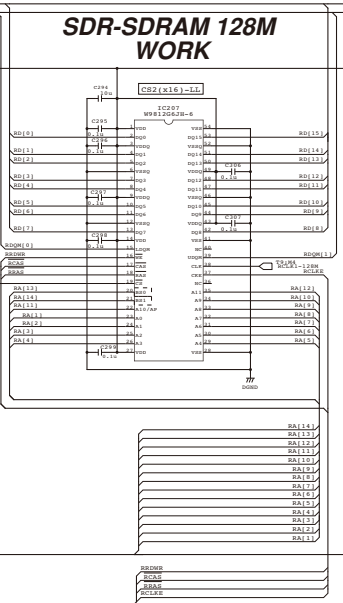
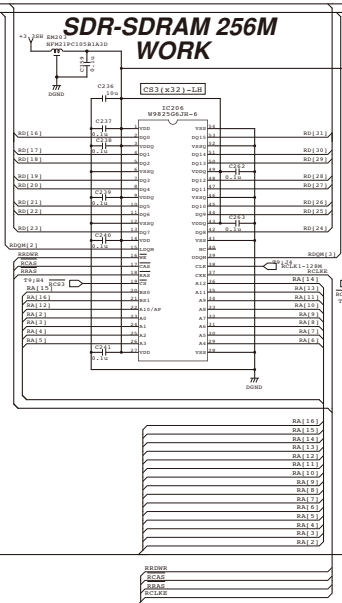
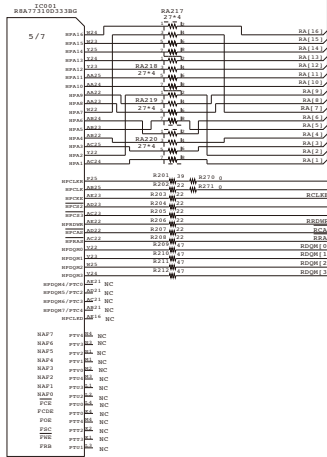
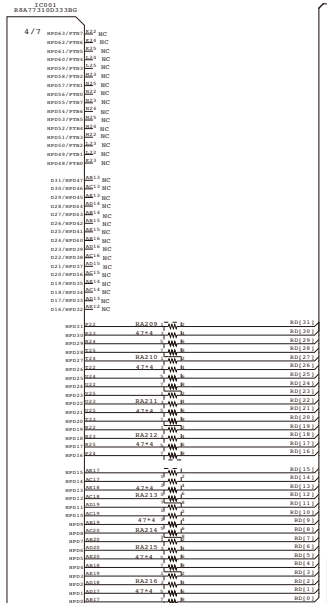
to EMKS61A-CN1
<Page 20: J-3>

to AJACK-CN101
<Page 15: O-6>

DMM 002 CIRCUIT DIAGRM (PSR-S770)

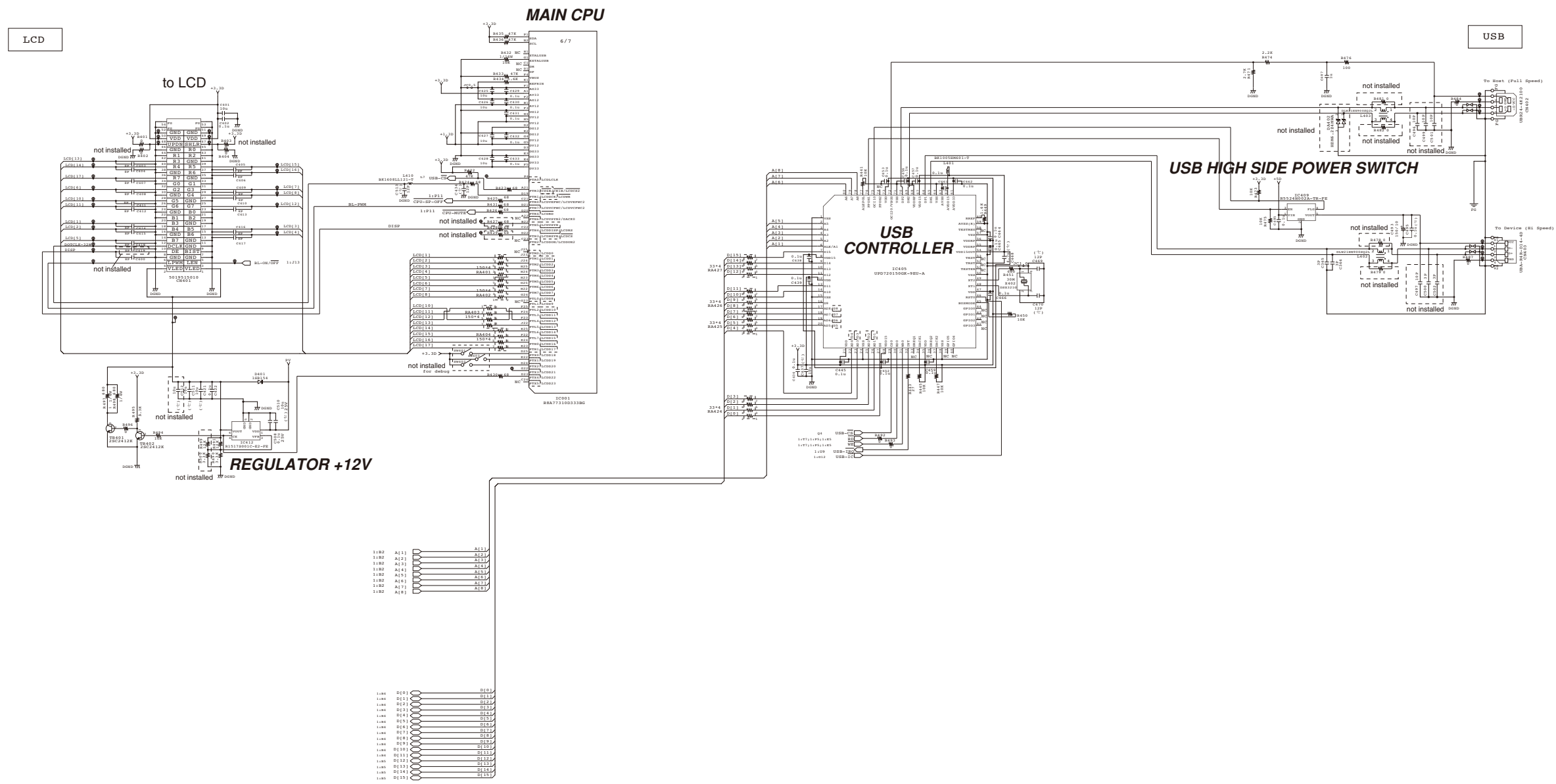
PSR-S770/PSR-S970

MAIN CPU



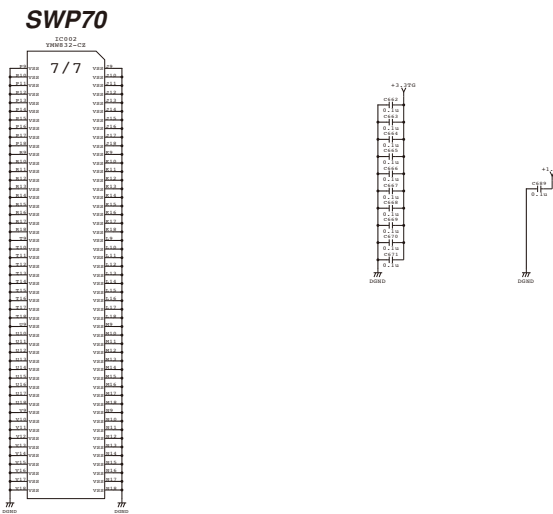
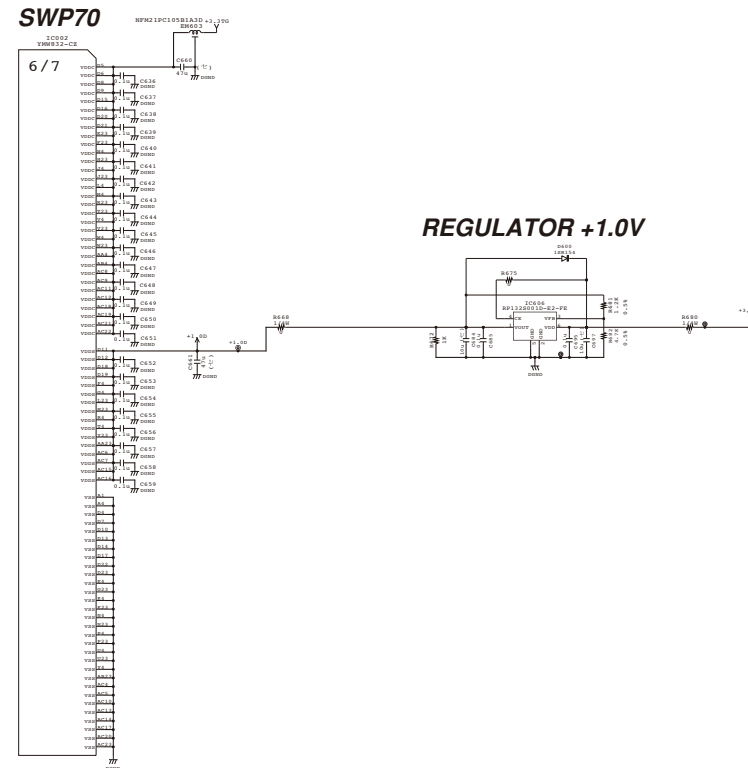
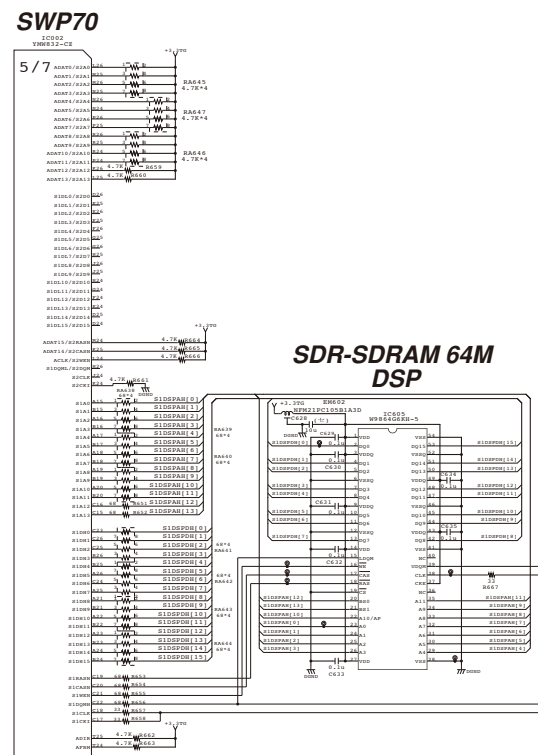
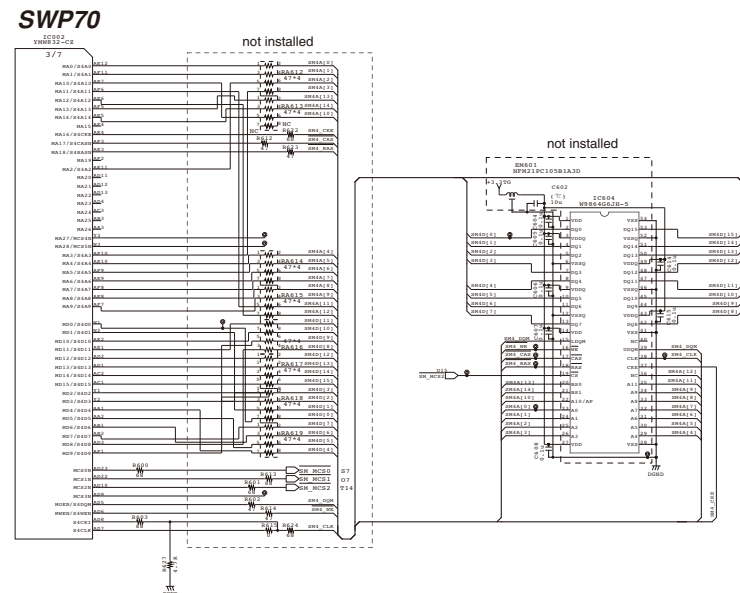
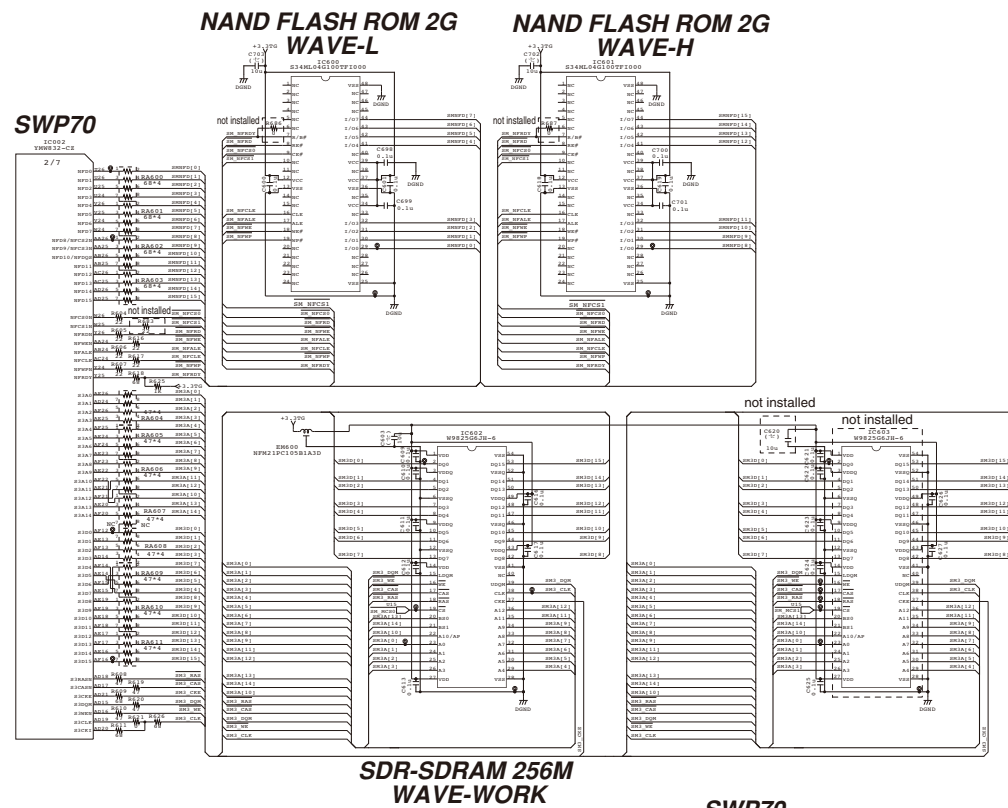
DMM 003 CIRCUIT DIAGRM (PSR-S770)

PSR-S770/PSR-S970



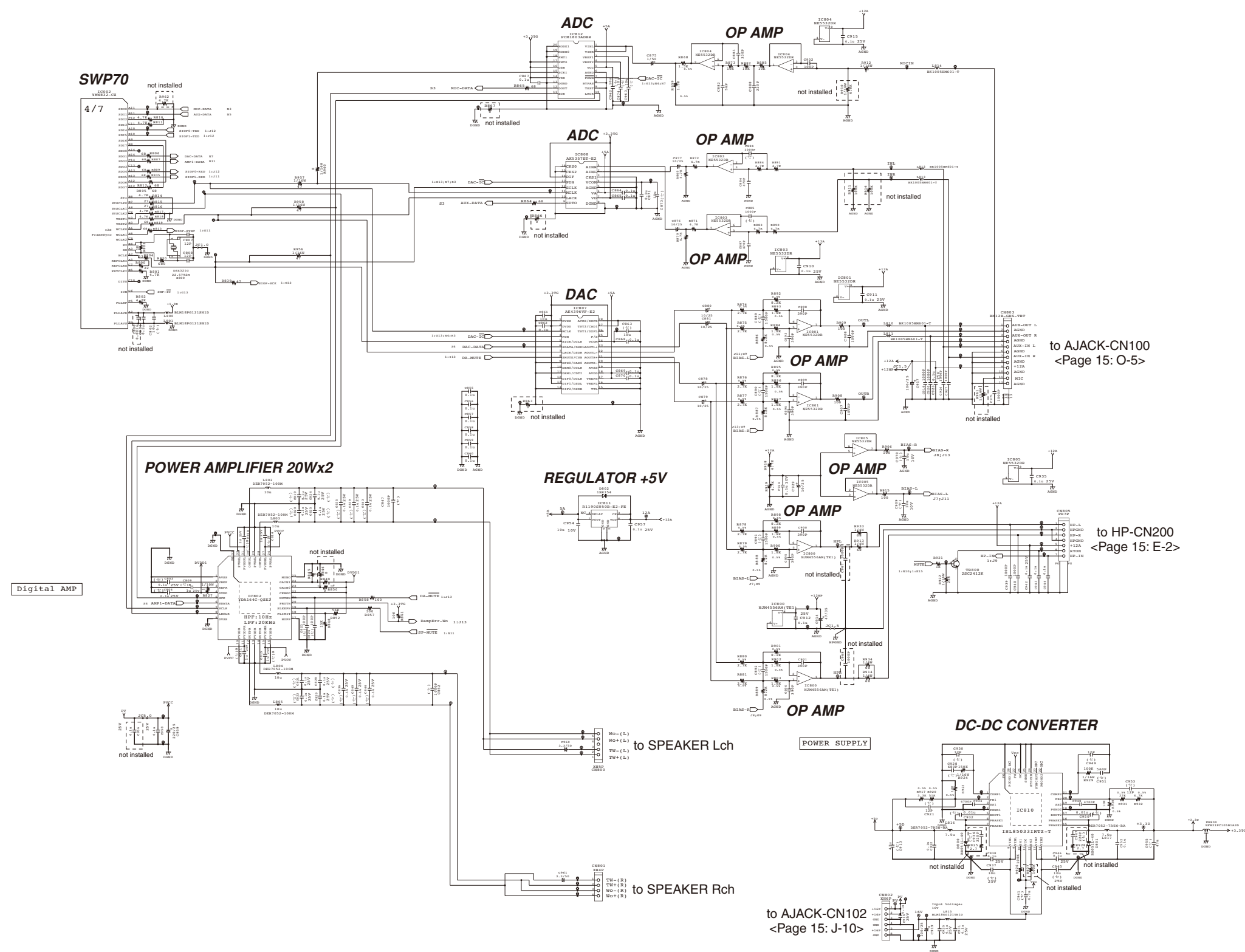
DMM 004 CIRCUIT DIAGRM (PSR-S770)

PSR-S770/PSR-S970

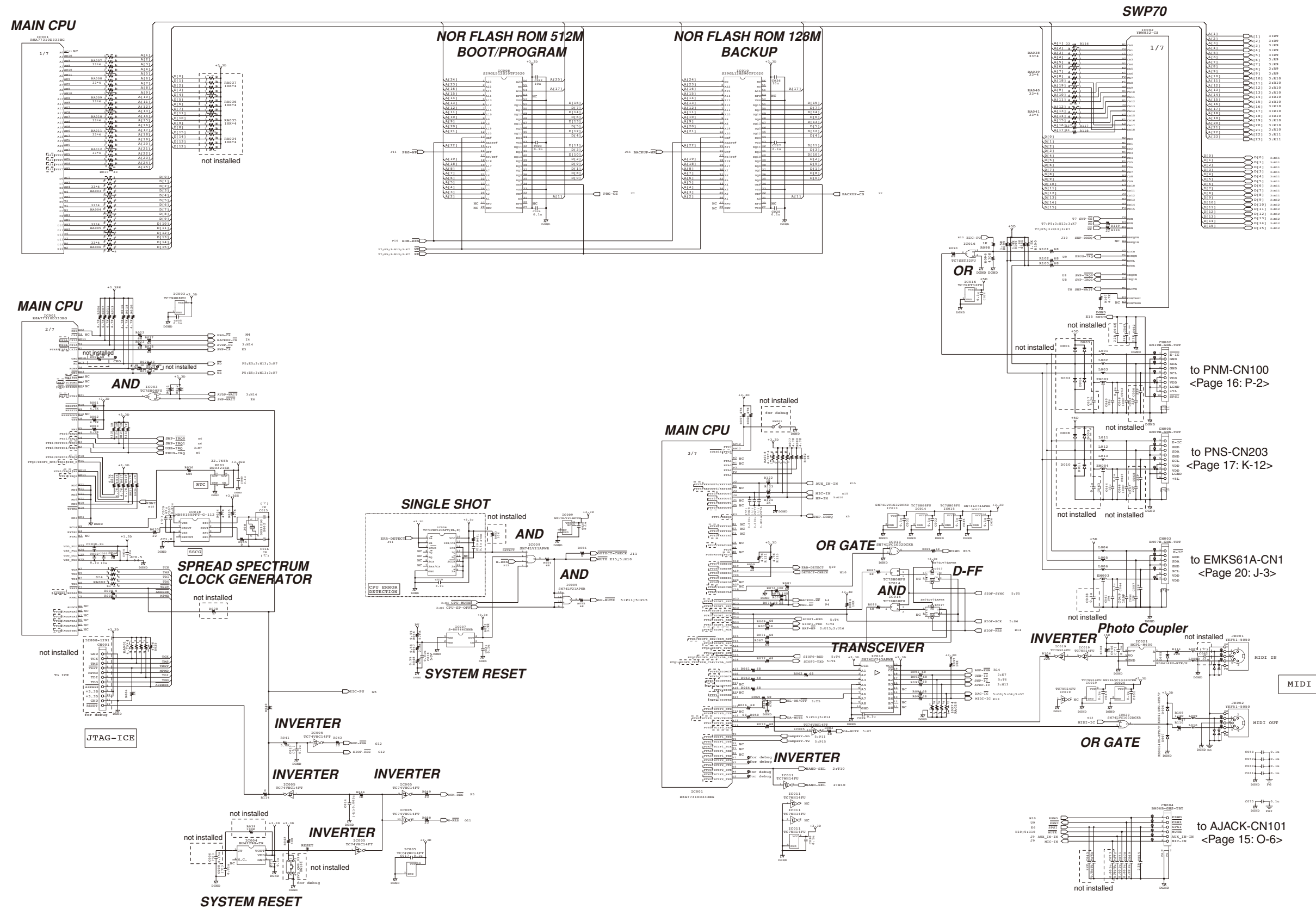


DMM 005 CIRCUIT DIAGRM (PSR-S770)

PSR-S770/PSR-S970

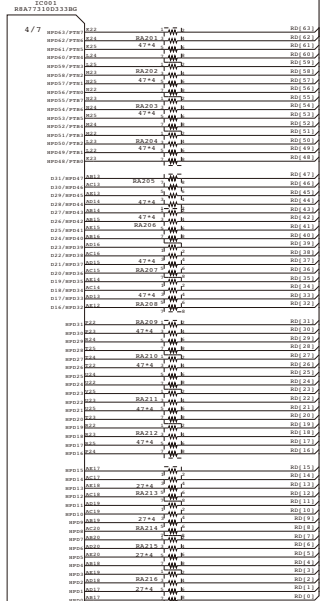


DMH 001 CIRCUIT DIAGRM (PSR-S970)

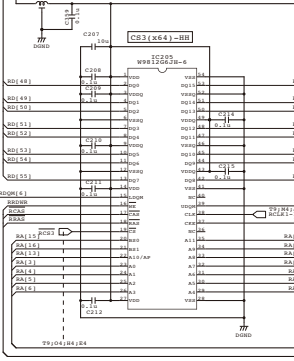


DMH 002 CIRCUIT DIAGRM (PSR-S970)

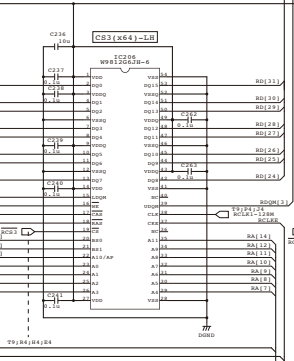
MAIN CPU



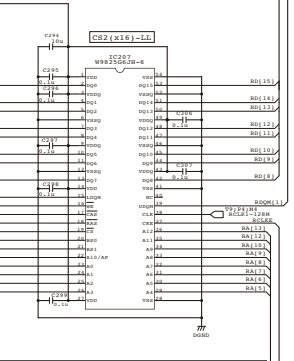
SDR-SDRAM 128M WORK



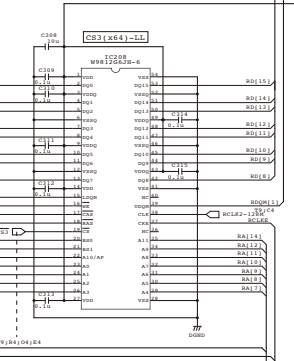
SDR-SDRAM 128M WORK



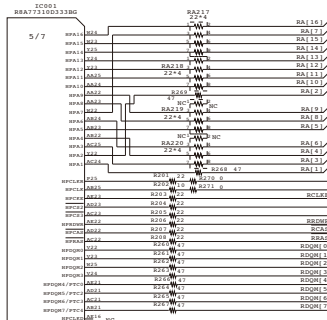
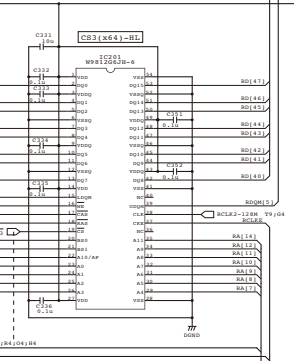
SDR-SDRAM 256M WORK



SDR-SDRAM 128M WORK



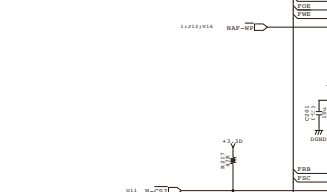
SDR-SDRAM 128M WORK



OR OR



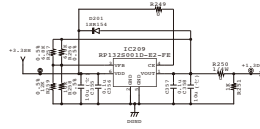
NAND FLASH ROM 4G AUDIO STYLE-L



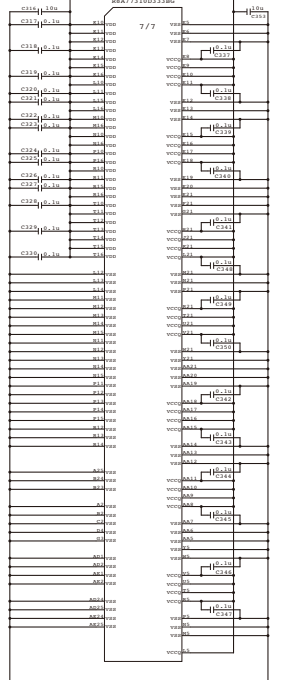
NAND FLASH ROM 2G AUDIO STYLE-H



REGULATOR +1.3V

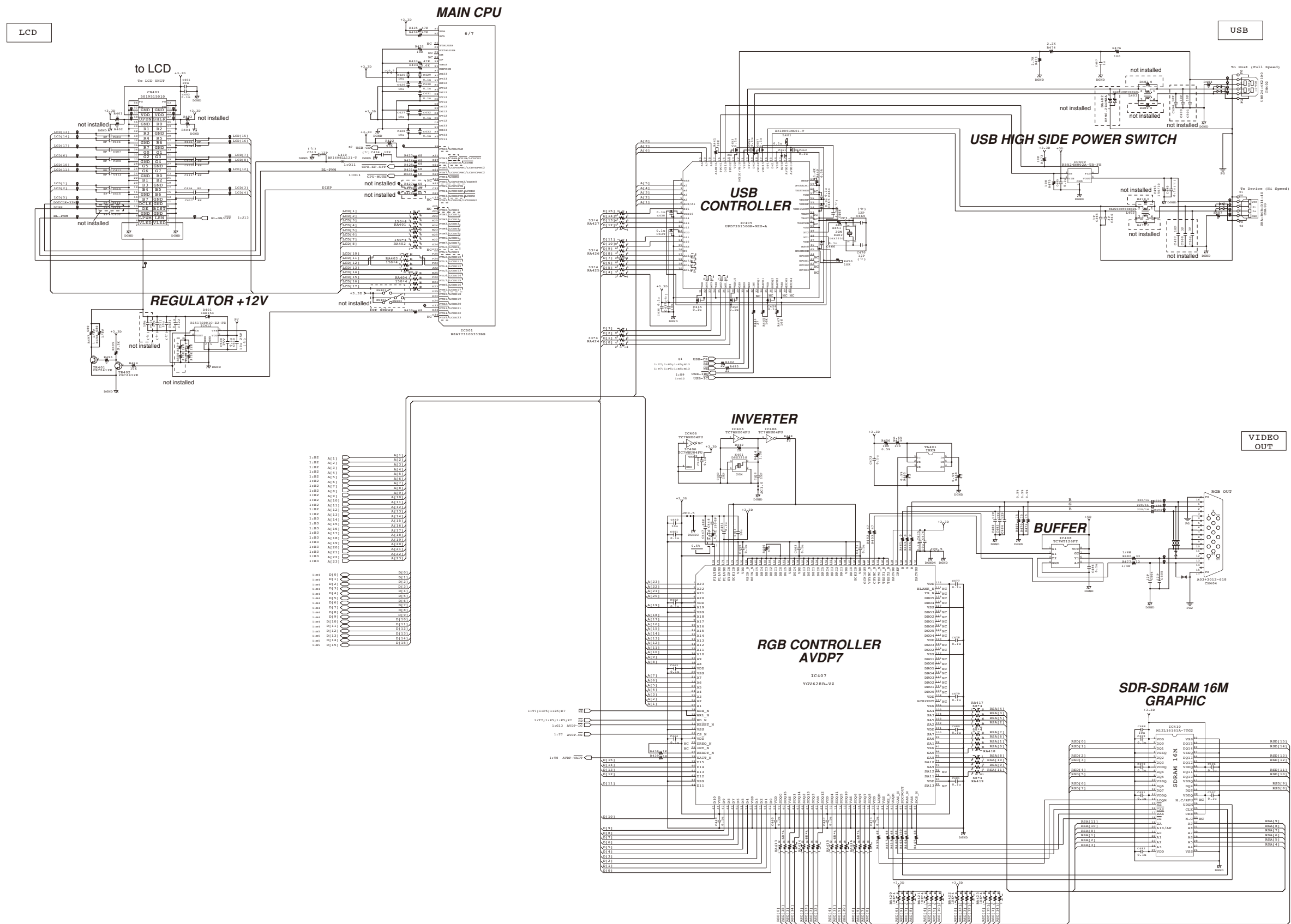


MAIN CPU

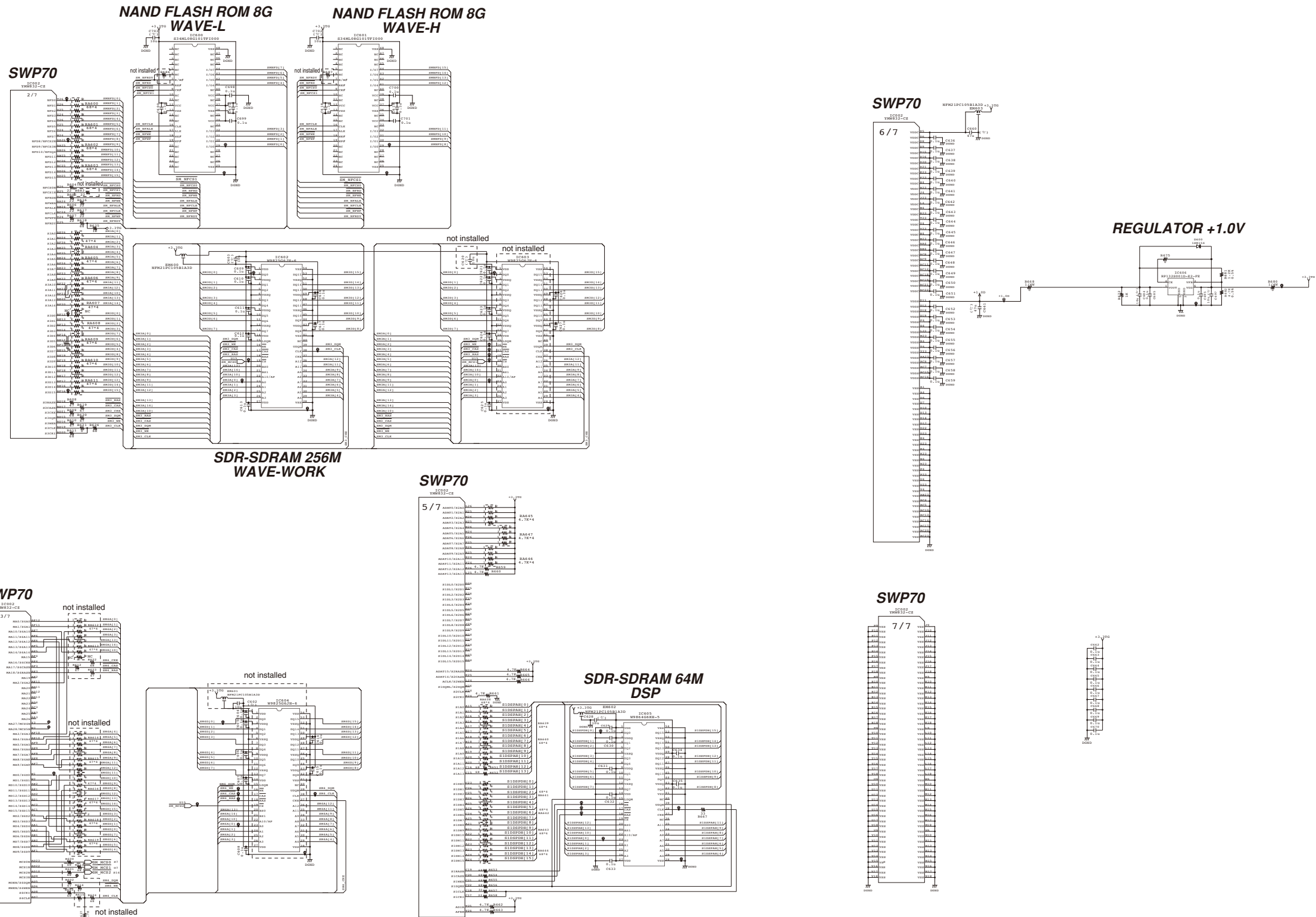


DMH 003 CIRCUIT DIAGRM (PSR-S970)

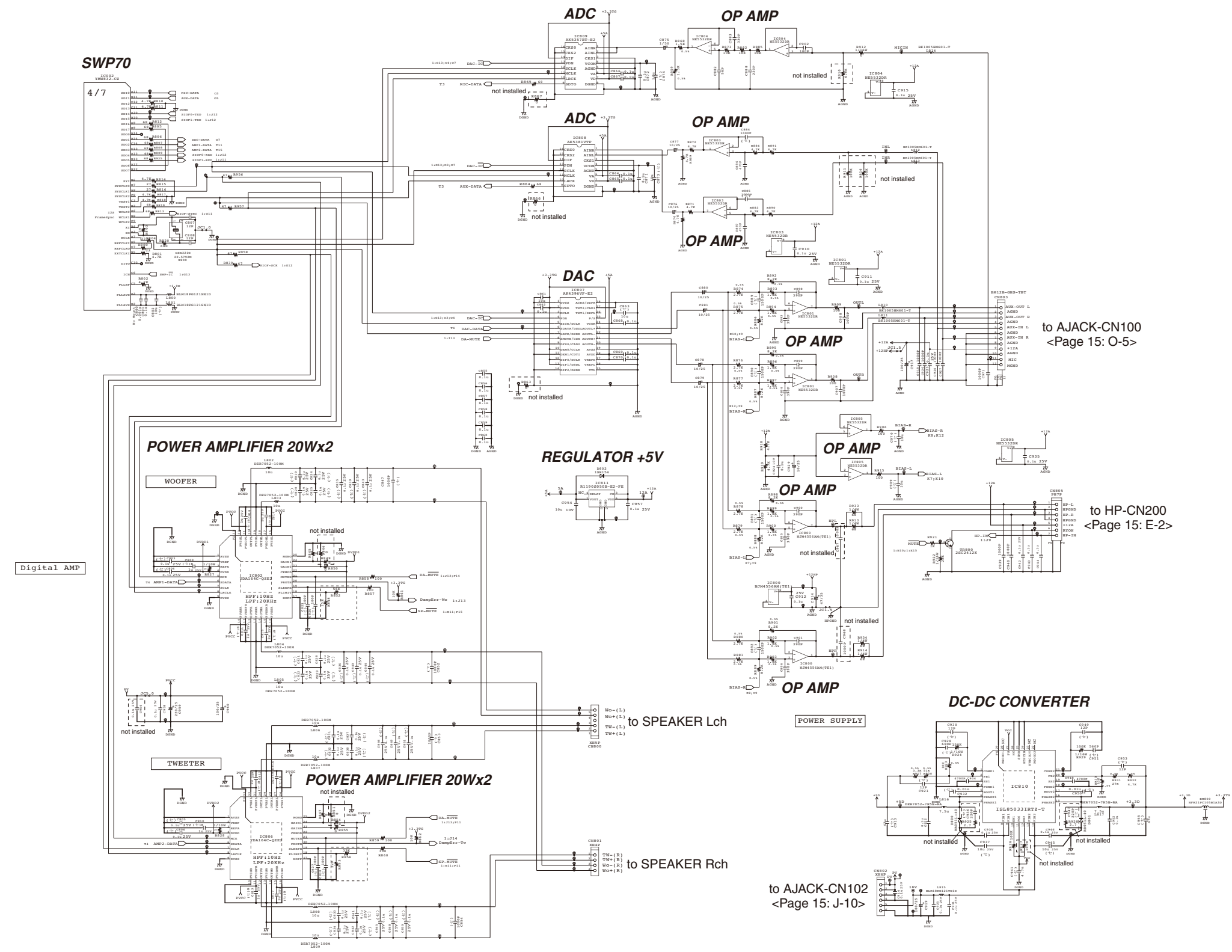
PSR-S770/PSR-S970



DMH 004 CIRCUIT DIAGRM (PSR-S970)

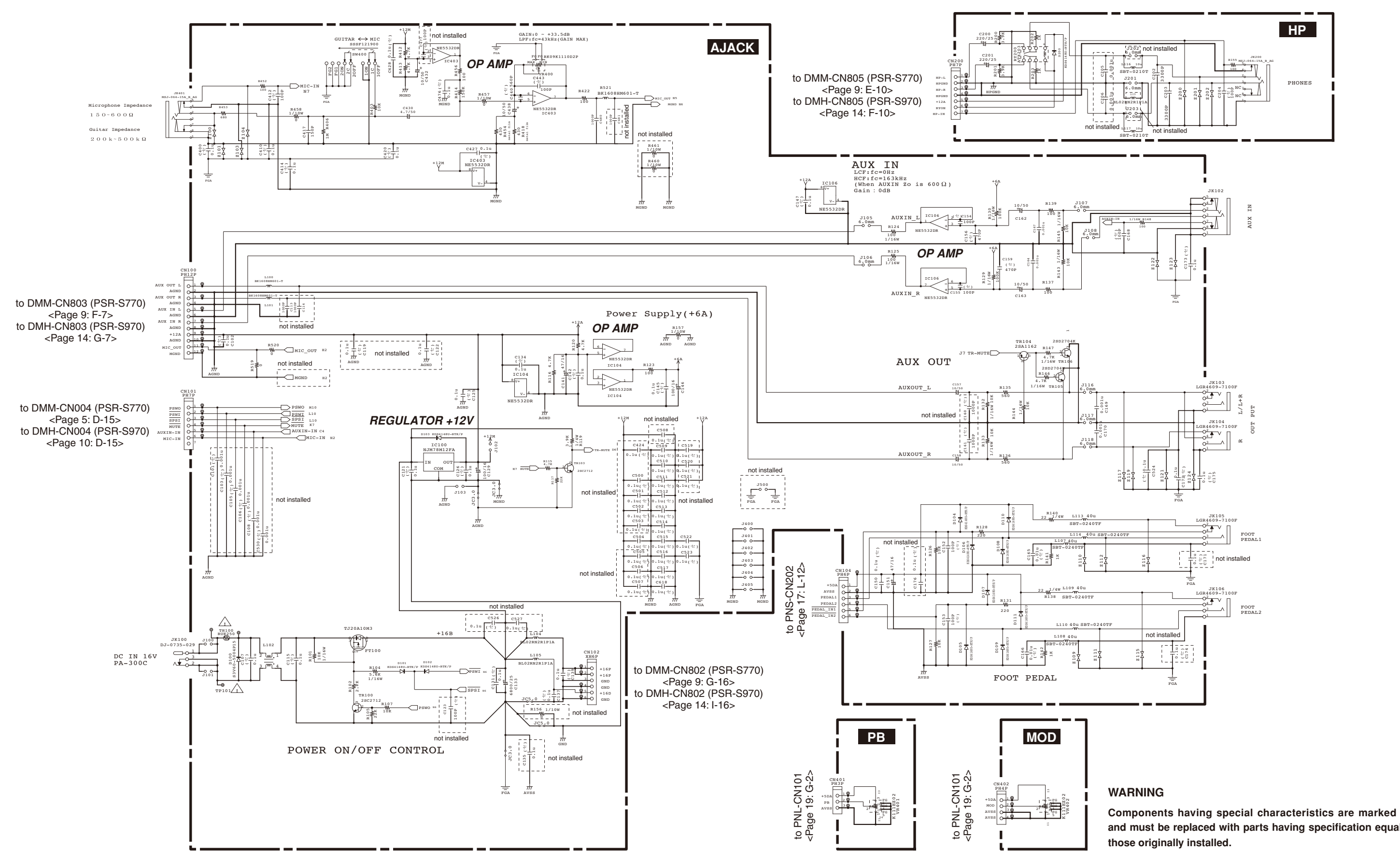


DMH 005 CIRCUIT DIAGRM (PSR-S970)



AJACK CIRCUIT DIAGRAM (PSR-S770/PSR-S970)

PSR-S770/PSR-S970



to DMM-CN803 (PSR-S770)
 <Page 9: F-7>
 to DMH-CN803 (PSR-S970)
 <Page 14: G-7>

to DMM-CN004 (PSR-S770)
 <Page 5: D-15>
 to DMH-CN004 (PSR-S970)
 <Page 10: D-15>

DC IN 16V
 PA-300C

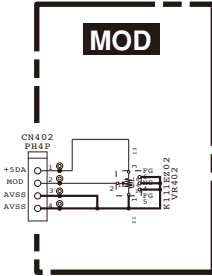
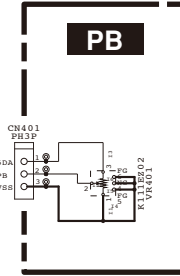
to DMM-CN805 (PSR-S770)
 <Page 9: E-10>
 to DMH-CN805 (PSR-S970)
 <Page 14: F-10>

to PNS-CN202
 <Page 17: L-12>

to DMM-CN802 (PSR-S770)
 <Page 9: G-16>
 to DMH-CN802 (PSR-S970)
 <Page 14: I-16>

to PNL-CN101
 <Page 19: G-2>

to PNL-CN101
 <Page 19: G-2>

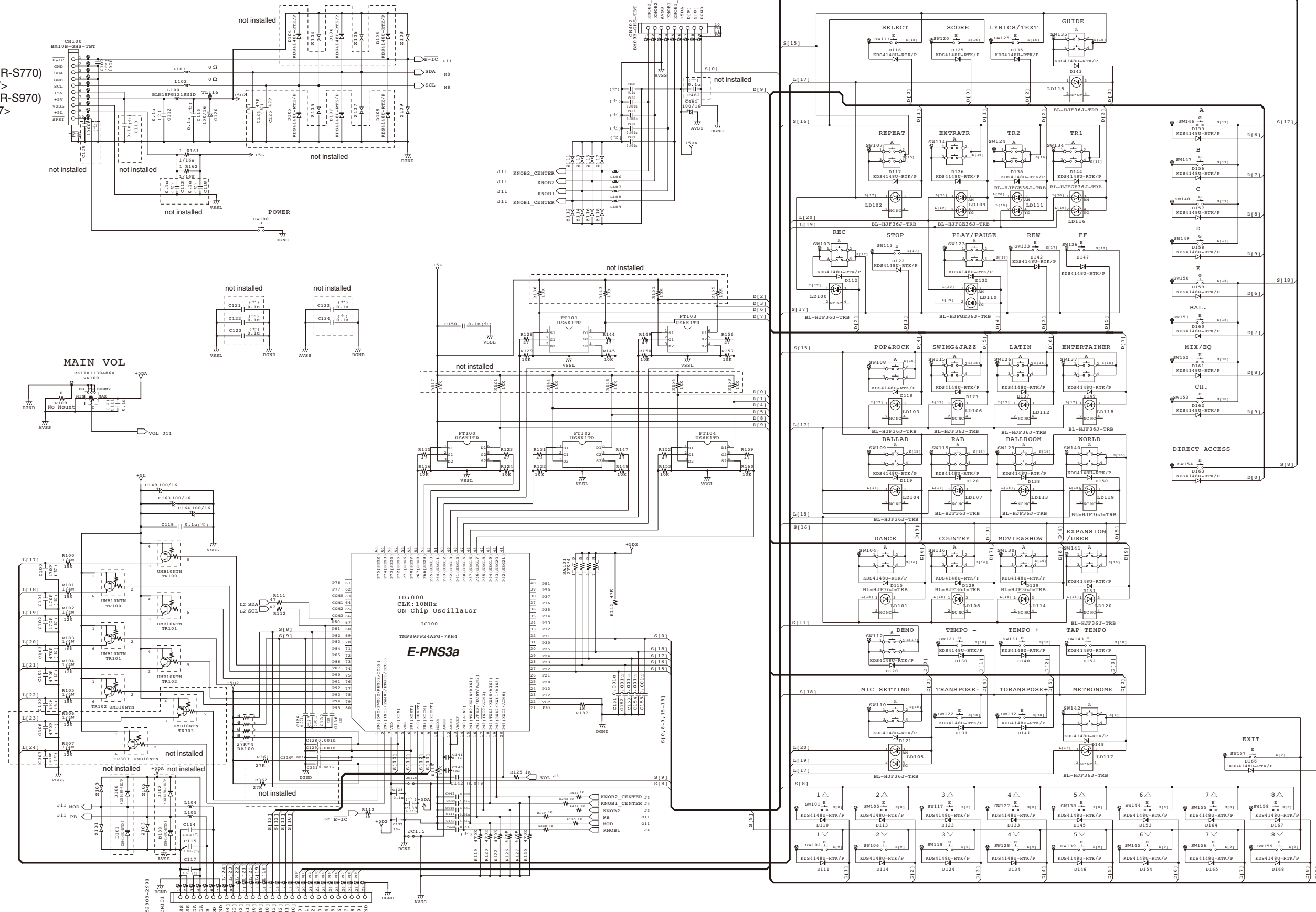


WARNING
 Components having special characteristics are marked and must be replaced with parts having specification equal to those originally installed.

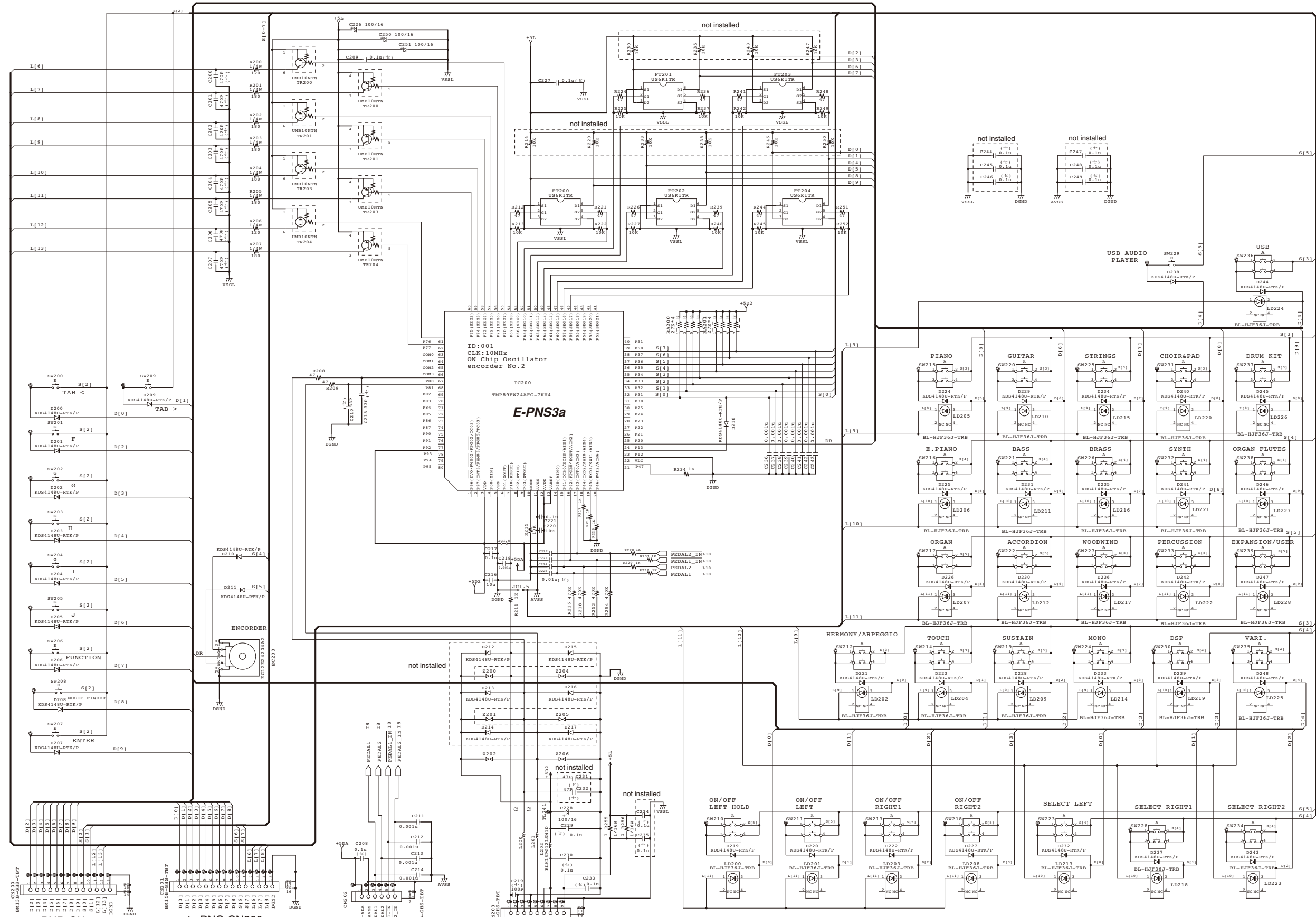
PN1 001 (PNM) CIRCUIT DIAGRAM (PSR-S770/PSR-S970)

to KNOB-CN400 <Page 18: B-3>

to DMM-CN002 (PSR-S770) <Page 5: D-7> to DMH-CN002 (PSR-S970) <Page 10: D-7>



PN1 002 (PNS) CIRCUIT DIAGRAM (PSR-S770/PSR-S970)



to PNR-CN300
 <Page 19: K-11>
 28CC1-2001145938-2

to PNC-CN200
 <Page 19: E-6>

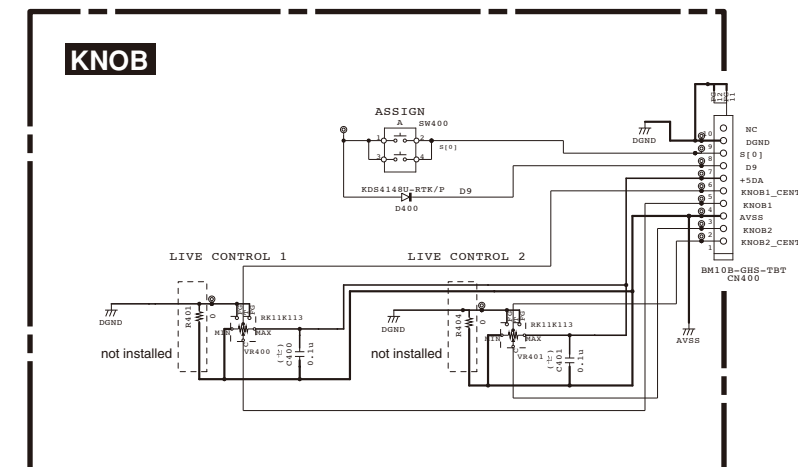
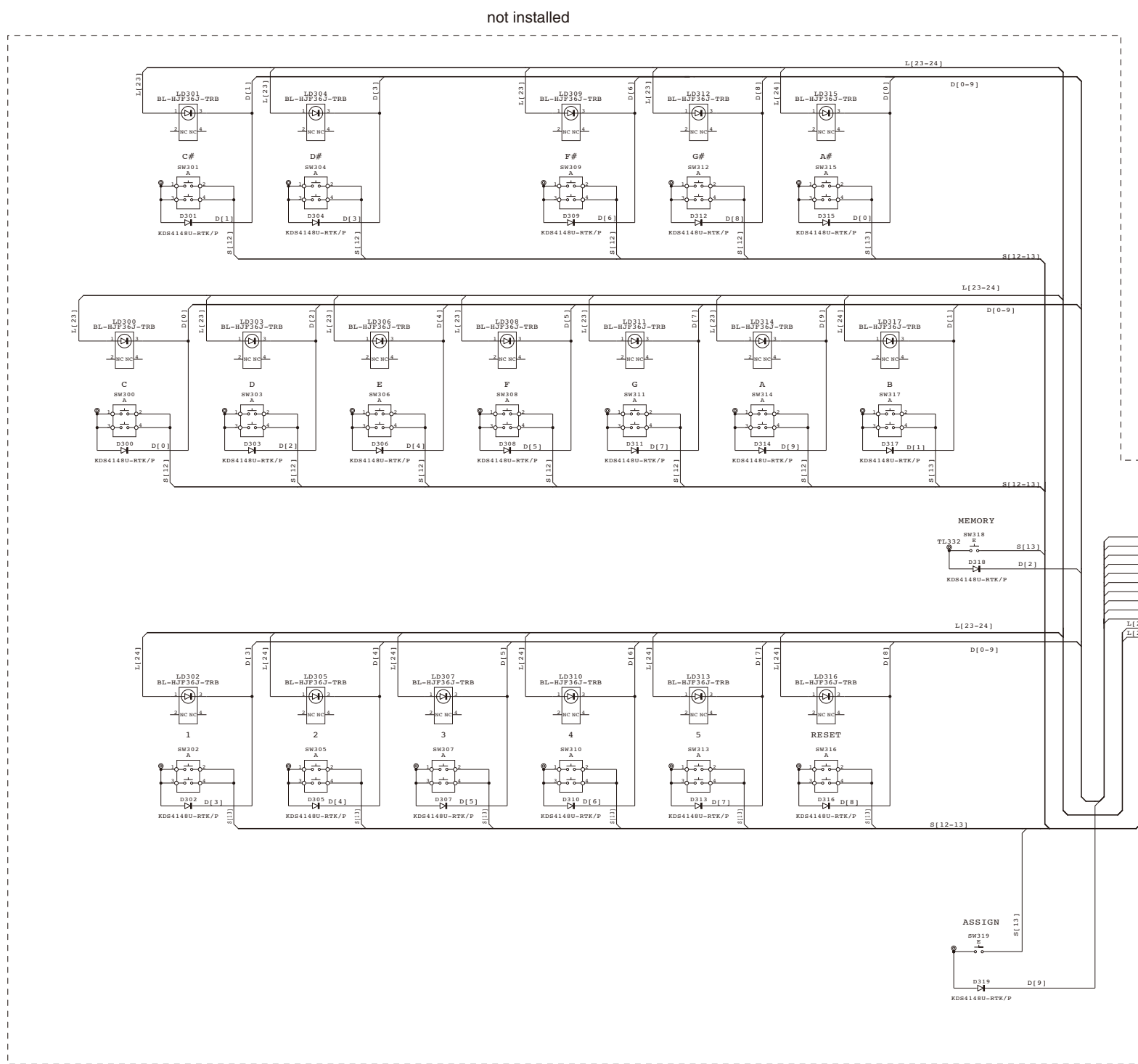
to AJACK-CN104
 <Page 15: G-9>

to DMM-CN005 (PSR-S770)
 <Page 5: D-9>
 to DMH-CN005 (PSR-S970)
 <Page 10: D-9>

PN1 002 (PNS) CIRCUIT DIAGRAM (PSR-S770/PSR-S970)

PN1 003 (KNOB) CIRCUIT DIAGRAM (PSR-S770/PSR-S970)

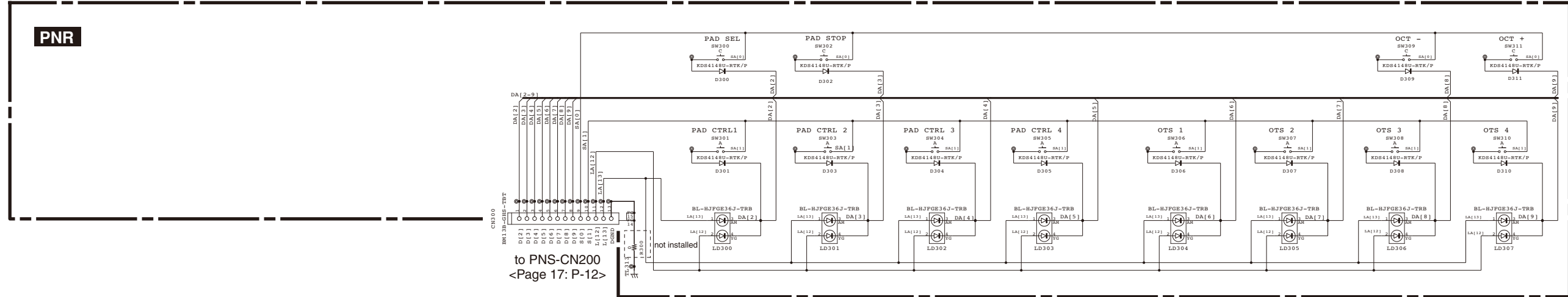
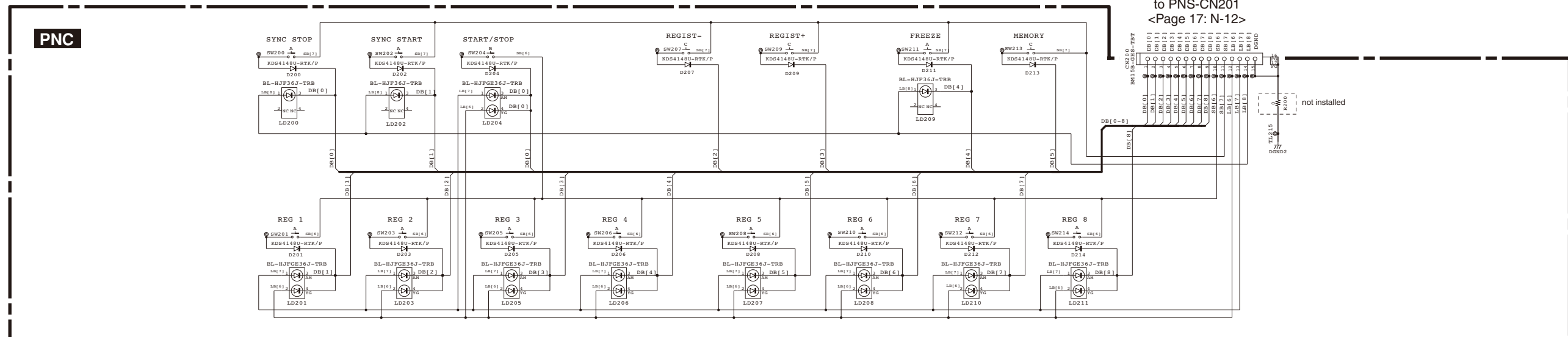
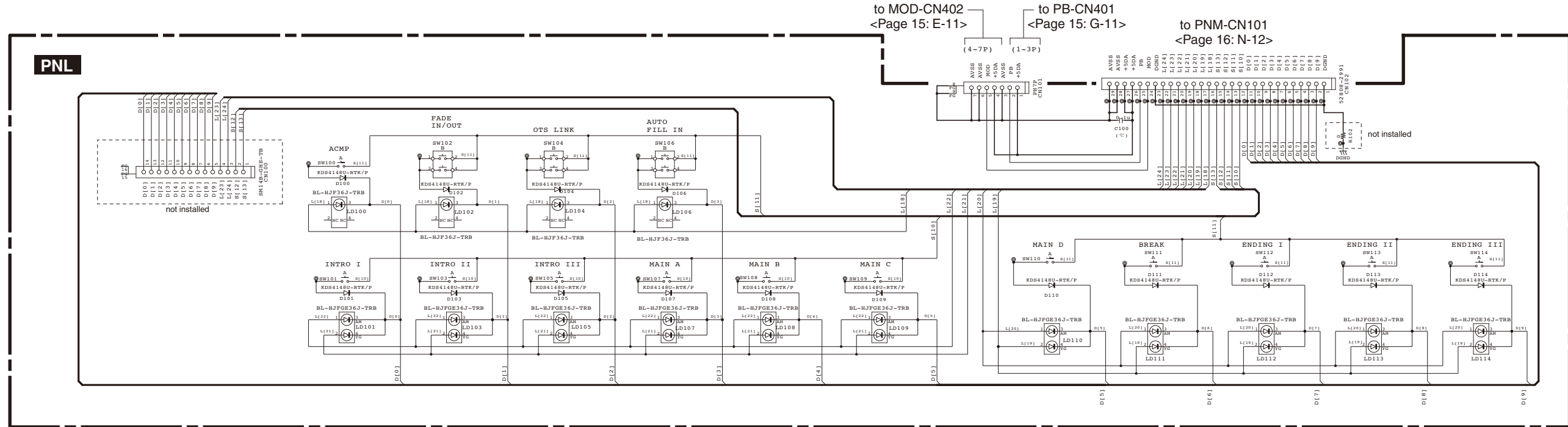
PSR-S770/PSR-S970



to PNM-CN402
<Page 16: I-1>

PN2 (PNC/PNL/PNR) CIRCUIT DIAGRAM (PSR-S770/PSR-S970)

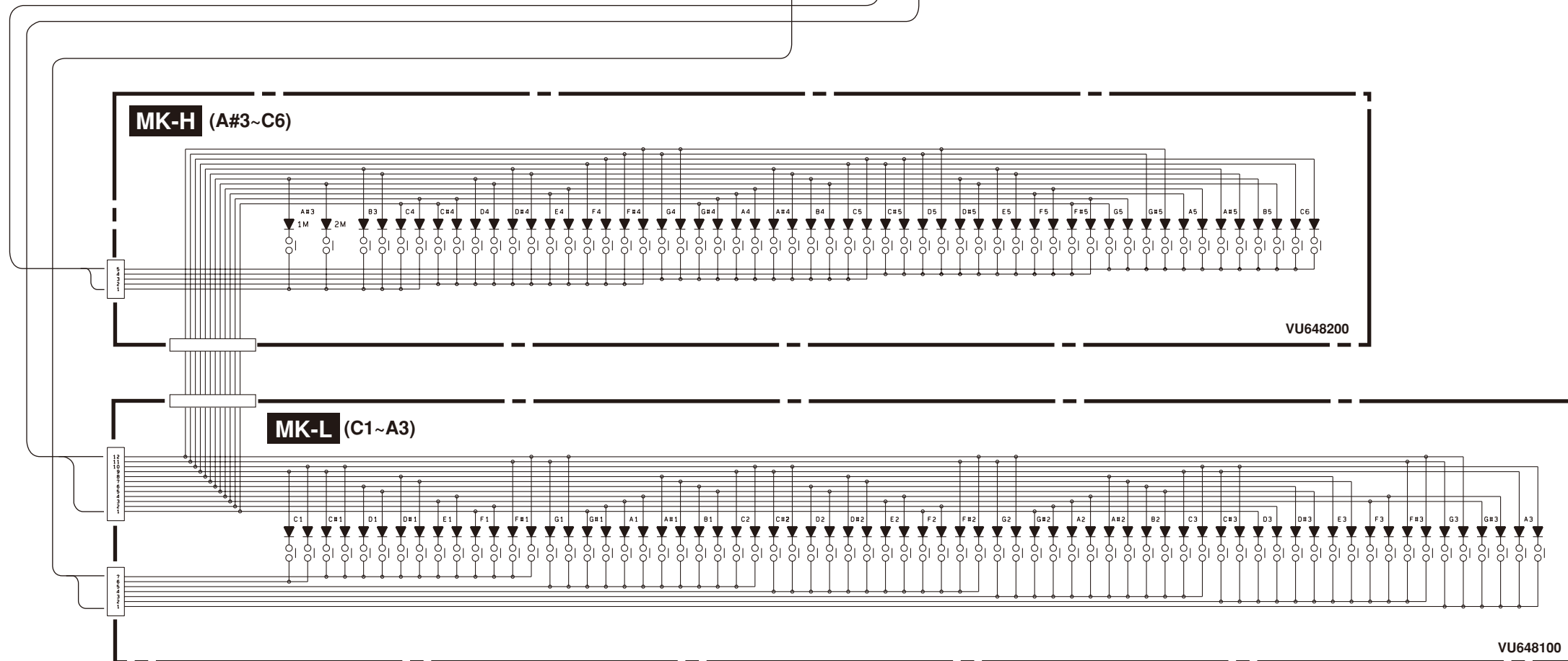
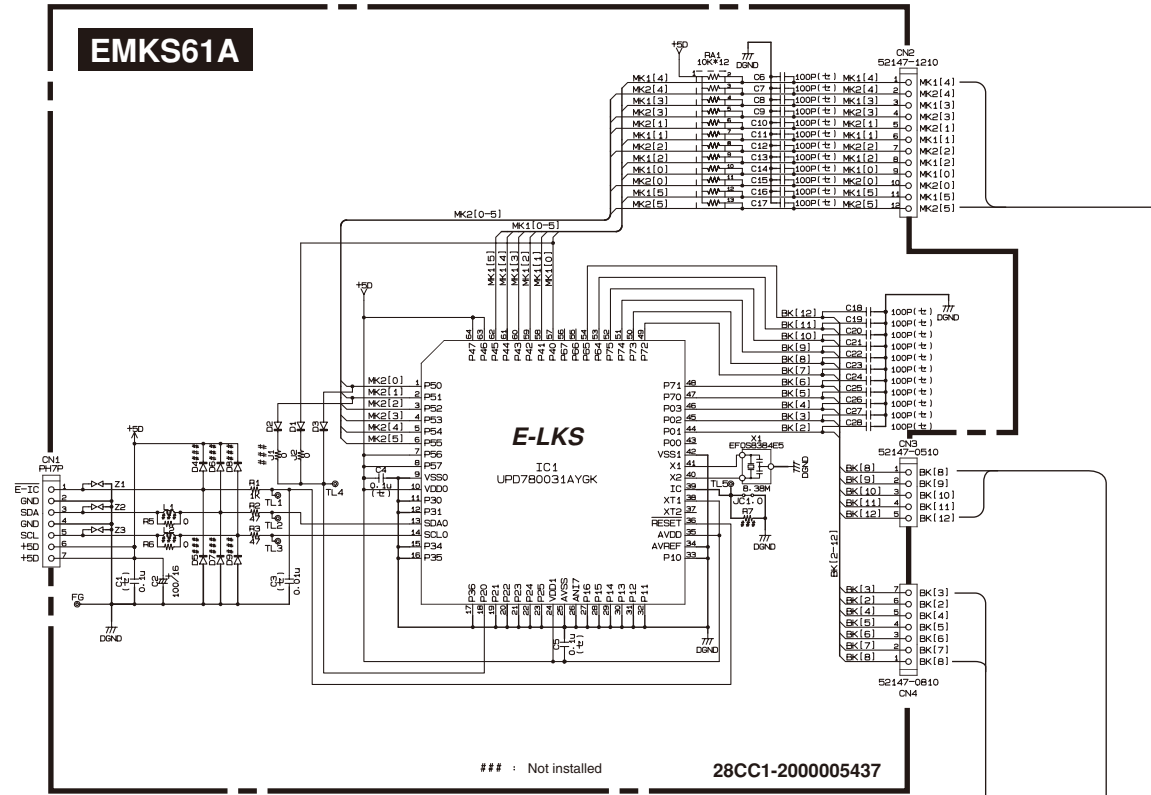
PSR-S770/PSR-S970



EMKS61A, MK-H, MK-L CIRCUIT DIAGRAM (PSR-S770/PSR-S970)

PSR-S770/PSR-S970

to DMM-CN003 (PSR-S770)
<Page 5: D-11>
to DMH-CN003 (PSR-S970)
<Page 10: D-11>



EMKS61A, MK-H, MK-L CIRCUIT DIAGRAM (PSR-S770/PSR-S970)