Parts List

++	639003380	Manual	English size: 280*420mm folded in half along the dotted line: 280*210mm 100g	1.00000	PCS	
++	649004546	Carton	K≡ A knife die size :1503*470*225mm Outer size :1515*480*250mm English with "SP201 PLUS"LOGO update	1.00000	PCS	
++	31302006601	Music stand	SPCC T= 1.2mm Round steel φ5.0mm 440*242.7mm surface powder black Thicken the plate to 1.2mm and add one solder joint	1.00000	PCS	
++	902010058	Sealing adhesive tape	72mm*100y Clarity	0.02190	PCS	
++	905010063			0.01850	Kg	
++	643010111	Airframe Polybag	PE 1600*655*0.03mm along Length direction Opening English warning character+ With hole	1.00000	PCS	
++	643010077	Music stand bracket	PE 650*280*0.06mm standard English word+enviromental protection	1.00000	PCS	
++	902010051	keyboard protector	200M*70*0.01mm no viscosity	0.00620	ROL	
++	650001226	Card paper	K≡A Size：285*100mm	1.00000	PCS	
++	633000176	Dual side Gummed paper	Black 3M Dual side Gummed paper 80*40*0.15mm	1.00000	PCS	
++	641070530	Barcode	Black text on white background is only applicable to deli standard black bar code: 6950474392016 white bar code: 6950474	2.00000	PCS	
++	638010372	SMPS Adaptor (GQ24-120200-AX)	IN:100-240V AC 50/60Hz 1.0A Max OUT:12V DC 3A inner positive outer negative erengy 6 match GQ activity plugs included	1.00000	PCS	
++	643010036	Power Polybag LD80	PE 220*150mm standard English word+enviromental protection	1.00000	PCS	
++	699000304	Brown paper	1226*85*0.3mm	1.00000	PCS	
++	641990691	Download the card PIN label	White background black bright white PET65X7mm content with order，each number is unique	1.00000	PCS	
++	640000646	Melodics download card	200g powder grey paper，one-side four-color printing，size 105X148mm，surface without treatment	1.00000	PCS	

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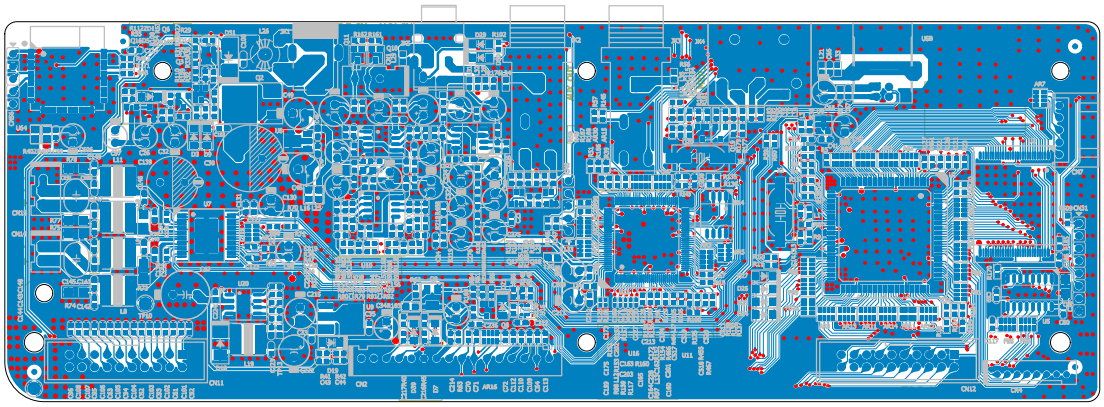
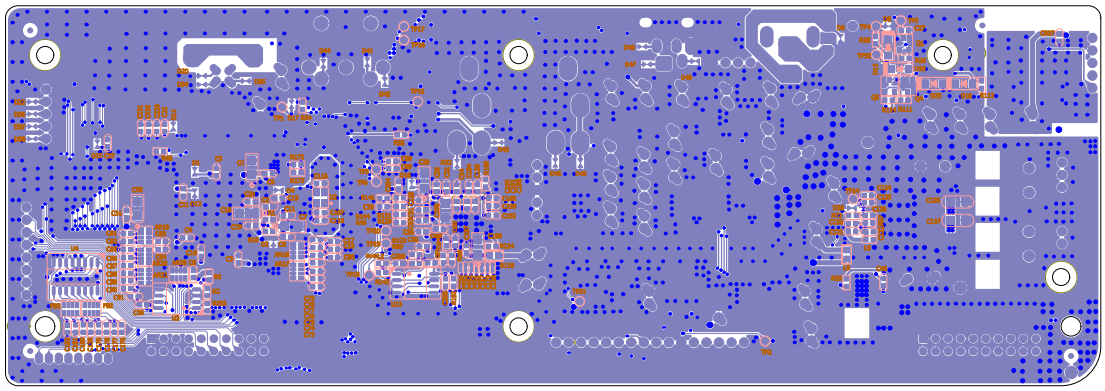
PCB Boards

Main Board-1



Main Board-2



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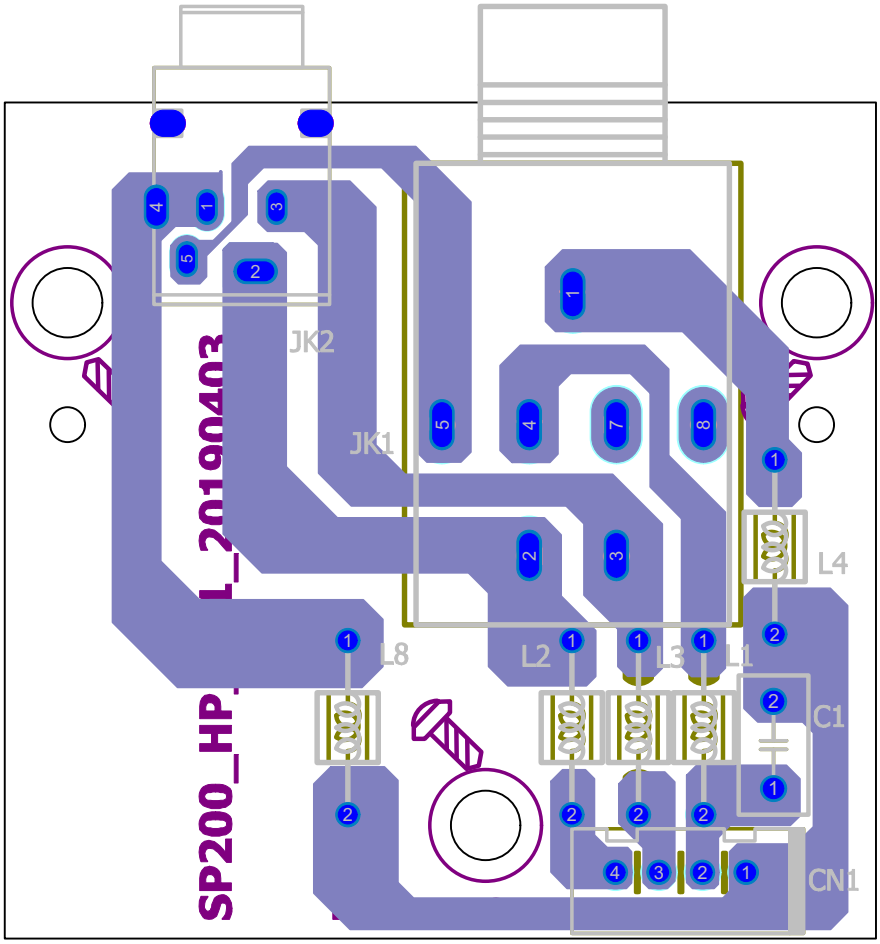
IO Board



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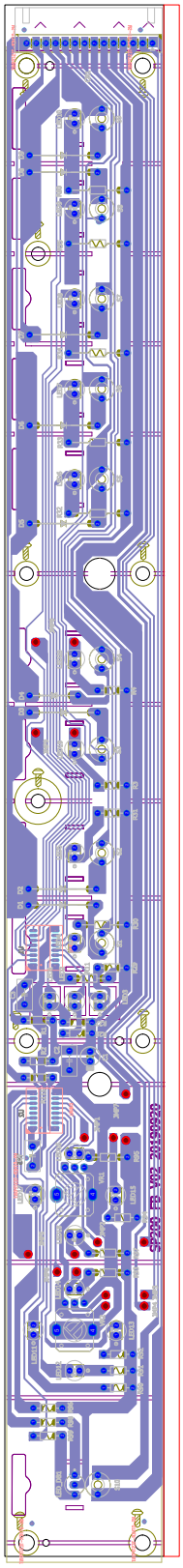
Function Board Schematic



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Diagnosis

Control Buttons

Press and hold the following keys, then turn on the power to execute the following operations:

- Keys [1]+[2]+[3]+[4] to enable the Online Firmware Update mode.
- Keys [1]+[2]+[3]+[5] to enable Manual Test mode. In this mode, it will test the LEDs, keys, buttons, volume knob, brilliance knob, pedal, and pedal unit.
- Keys [1]+[2]+[3]+[6] to enable System Self-testing mode In this mode, it will test the A2S-RAM, A2S-ROM, A2S-SPI-FLASH, A1-SRAM/SDRAM, A1-SPI-FLASH, and BLUETOOTH.
- Keys [1]+[2]+[3]+[7]……[12] are reserved for future use.

Note:

Keys [1]+[2]+[3]+[4] correspond to [A0]+[A#0]+[B0]+[C1] on the keyboard, you can relate the keys mentioned above to the keyboard in the same way.

Preparations

Before turning on the power, please finish the following preparations:

- Use a USB cable to connect the instrument's USB jack to computer.
- Use a MIDI cable to connect the instrument's MIDI OUT jack to computer.
- Connect a sustain pedal and a unit pedal to the pedal jacks.
- Connect the Aux In jack to external audio source.
- Connect the Aux Out jack to external speakers.

Headphones output should be checked when the instrument is turned on in normal operation.

Manual Test Mode

When enter Manual Test mode, the power button LED will light up, then all panel LED's will blink for three times and finally stay dark-lit. It indicates Manual Test mode is enabled. Now you can test the buttons/ LED's, keys, volume/brilliance knobs, and pedals.

Note: all these four items can be tested at the same time.

1. Buttons & LED's

When a button is pressed, it will sound a "Dee" tone. The corresponding button LED will blink once. When two or more buttons are pressed at the same time, it will sound a "Dong" tone.

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Test the buttons strictly in the sequence indicated by the arrowhead in the image (from left to right). After testing the last button, it will automatically go back to the first button (for example, after pressing [OTHER], the test will go back to [Hold:Fn]).

Note:

[POWER] button has two LED's, while VOLUME/BRILLIANCE/RHYTHM/SONG/RECORD doesn't have any corresponding buttons to test their LED indication. In this case, it will use the [HOLD: Fn] button to test these LED's.

Press [HOLD: Fn] once, the [POWER] button white LED lights up.

Press [HOLD: Fn] a second time, the [POWER] button blue LED lights up.

Press [HOLD: Fn] a third time, the [VOLUME] LED lights up. (Check the evenness of the LED light).

Press [HOLD: Fn] a fourth time, the [BRILLIANCE] LED lights up. (Check the evenness of the LED light).

Press [HOLD: Fn] a fifth time, the [RHYTHM] LED lights up.

Press [HOLD: Fn] a sixth time, the [SONG] LED lights up.

Press [HOLD: Fn] a seventh time, the [RECORD] LED lights up.

Press [HOLD: Fn] a eighth time, the [HOLD: Fn] LED lights up.

Now, press the [REC] button. The corresponding LED lights up. Follow the sequence to check the other buttons, until you press the last button [OTHER] and the button LED lights up.

When the [OTHER] button is tested, you can start the test from the first button again.

2. Keys

Press the keyboard strictly from right to left (as marked in the image below) at medium touch level. If the currently-checked key is OK, it will sound a "Dee" tone. But if the touch level is either too high or too low, it will sound a "Dah" tone. If a wrong key has been pressed, it will sound a "Dong" tone.

Notes:

1) It will not go to test the next key until these two conditions are fulfilled: a) the currently-checked key has been pressed correctly. b) the touch level should be within normal range.

2) When finish testing all the keys, you can start the key test again from the beginning.

3) If the instrument is able to communicate with computer, when pressing the keys, the USB-MIDI/MIDI OUT jacks will output MIDI messages. Thus, there's no need to test the USB MIDI/MIDI OUT jacks separately.

3. Pedal

This instrument supports connecting a sustain pedal and a unit pedal. Follow this sequence to test the pedals: sustain pedal → unit pedal (from left to right: soft pedal → sostenuto pedal → sustain pedal). If

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the pedal test is OK, it will sound a “Dee” tone.
When finish testing all pedals, you can start this test again from the beginning.

4. Volume/Brilliance Knobs

Rotate the [VOLUME] knob and it will sound a “Dah” tone at different volume levels. Listen and judge if the [VOLUME] knob is working normally.
Rotate the [BRILLIANCE] knob and it will sound a “Dong” tone at different volume levels. Listen and judge if the [BRILLIANCE] knob is working normally.
Note:
Since the knob LED’s are tested in the Button test, there’s no need to test the LEDs again.

Automatic Test Mode

In Automatic test mode, it will test these five items: A2S-RAM, A2S-ROM, A2S-SPI-FLASH, A1-SRAM/SDRAM, A1-SPI-FLASH.
Bluetooth test can be conducted at the same time during the Automatic test.
Audio test can be conducted after the Automatic test is finished.

1. Automatic test items

When Automatic test is enabled, the [POWER] button LED will light up, then the LEDs of VOICE 1 - 5 will blink one by one to indicate these test items:

PIANO： A2S-RAM
EP： A2S-ROM
KEYBOARD： A2S-SPI-FLASH
SYNTH： A1-SRAM/SDRAM
OTHER： A1-SPI-FLASH

Whenever a test item is finished, it will sound a “Dee” tone.
When all these items are finished, if all voice LEDs stay dark-lit, it indicates all test items are OK. But if these LEDs stay bright-lit, it indicates an error:

PIANO LED bright-lit: error in A2S-RAM.
EP LED bright-lit: error in A2S-ROM.
KEYBOARD LED bright-lit: error in A2S-SPI-FLASH.
SYNTH LED bright-lit: error in A1-SRAM/SDRAM.
OTHER LED bright-lit: error in A1-SPI-FLASH.

2. Audio Test

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Press one of the [C4] ~ [C#5] keys, the instrument will output a related audio test signal. Refer to the table to judge if the output signal is correct.
Pressing a key not within the [C4] ~ [C#5] range, for example, [C3], it will stop the test. Now you can check the static noise level of the instrument.

No.	Key name	Audio test signal	Display
1	【C4】	Left Pan	/
2	【C#4】	Right Pan	/
3	【D4】	Max. Undistorted Signal（L:1KHz sine wave, R:440Hz)	/
4	【D#4】	1KHz Sine Wave	/
5	【E4】	Intonation Test Signal (Church Organ)	/
6	【F4】	Sweep Frequency Signal 1 (range：20Hz~320Hz)	/
7	【F#4】	Sweep Frequency Signal 2 (range：320Hz~4800Hz)	/
8	【G4】	White Noise	/
9	【G#4】	100Hz Sine Wave	/
10	【A4】	300Hz Sine Wave	/
11	【A#4】	440Hz Sine Wave	/
12	【B4】	10KHz sine wave	/
13	【C5】	AP Test Signal (IMD)	/
14	【C#5】	AP Test Signal (Multi Tone)	/

3. Bluetooth Test (for SP200 PLUS)

You can start the Bluetooth MIDI test during the Automatic test.
1) Open the Bluetooth MIDI tool “YD CHECK”.

2) Click “ connect BLE”, then it will show this instrument’s Bluetooth name “SP200B6CC71”.

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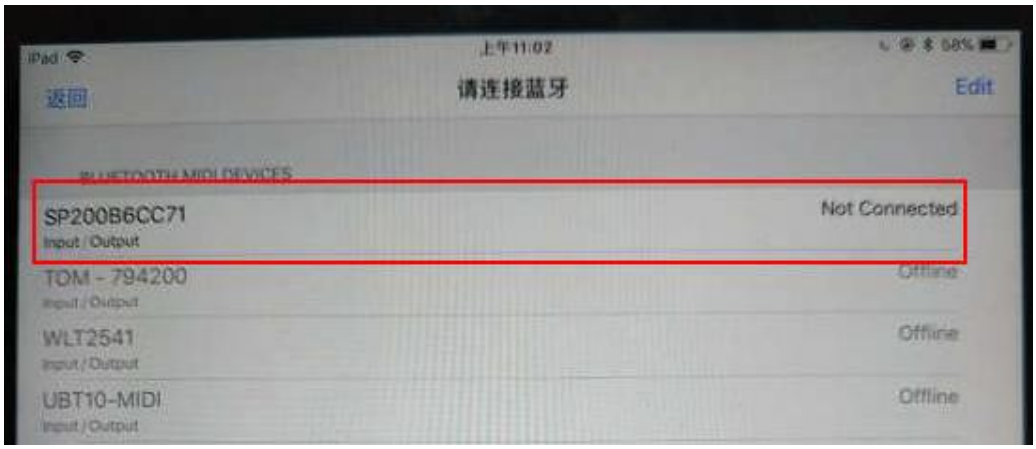

3) Tap the Bluetooth name “SP200B6CC71” to connect. The connection status will change to “Connected”. Now the instrument’s [POWER] LED lights up in blue.

4) Tap “Return” on the upper corner to go back to the main interface of YD CHECK.

5) Press the [HOLD:Fn] button on the instrument, the instrument will produce a “Dah” tone. At the same time, the [HOLD: Fn] button LED lights up (bright-lit), indicating Bluetooth MIDI test is passed. If the [HOLD: Fn] button LED stays dark-lit, it indicates the Bluetooth MIDI test fails.

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Frequently Asked Questions

Problem	Possible Cause and Solution
Even with no power supply problems, the instrument still could not start up.	You could hold these 4 keys (【A0】+【A#0】+【B0】+【D1】) then power on to enter system auto self-test mode. In this mode, you can check whether the RAM and ROM are working.
The speakers produce a "POP" sound when the power is turned ON or OFF.	This is normal and indicates the instrument is receiving electrical power.
LED -- Not lighting Keyboard -- Not sounding	1. Check the power supply. 2. Check the AC jack, have it been connected reliably. A poor contact would cause unsuccessful power supply
LED -- Not lighting Keyboard -- Sounding	You could hold these 4 keys (【A0】+【A#0】+【B0】+【C#1】) then power on to enter system manual self-test mode. In this mode, you can check whether the LED is working.
LED -- Lighting Keyboard -- Not sounding	1. Make sure the master volume knob is set to an appropriate level. 2. Check whether any cable or headphone is connected to the PHONES jack. When a set of headphone is plugged into this jack, no sound will output from the speaker.
Button problems	You could hold these 4 keys (【A0】+【A#0】+【B0】+【C#1】) then power ON to enter system manual self-test mode. In this mode, you can check whether the buttons are working
Keyboard problems	You could hold these 4 keys (【A0】+【A#0】+【B0】+【C#1】) then power ON to enter system manual self-test mode. In this mode, you can check whether the keys are working.
Pedal problems	1. Check the pedal cable, has it been plugged into the proper socket of the cabinet. 2. You could hold these 4 keys (【A0】+【A#0】+【B0】+【C#1】) then power ON to enter system manual self-test mode. In this mode, you can check whether the pedals

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	are working.
USB MIDI device is unavailable from PC software (e.g. MIDI-OX).	Check the USB MIDI jack, has it been connected reliably. A poor contact would cause failed connection.
USB AUDIO is unavailable	Check the USB MIDI jack, has it been connected reliably. Check the computer has chosen the piano's USB DEVICE.
When using a mobile phone, noise is produced.	Using a mobile phone in close proximity to the instrument may produce interference. To prevent this, turn off the mobile phone or use it further away from the instrument.

Note: If the system self-test was failed, please contact the dealer or an experienced technician for help.

FCC Statement:
This device complies with part 15 of the FCC Rules. Operation is subject to the following
two conditions:
(1) This device may not cause harmful interference, and
(2) this device
must accept any interference received, including interference that may cause undesired operation. This equipment has been tested
and found to comply with the limits for a Class B digital
device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful
interference in a residential installation. This equipment generates, uses and can radiate radio
frequency energy and, if not installed and used in accordance with the
instructions, may cause harmful interference to radio communications. However, there is no guarant ee that interference will not
occur in a particular installation. If this equipment does cause harmful interference to
radio or television reception, which can be determined by turning the
equipment off and on, the
user is encouraged to try to correct the interference by one or more of the following measures:—Reorient or relocate the receiving
antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.
Caution: Any changes or modifications not expressly approved by the party

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Spare Parts List

Lever	P/N	Specification	Description	Picture	QTY.	UOM	Remark
+++	201030842	Top cabinet	HIPS injection black		1	PCS	
+++	206020040	Button 1	The semi-transparent screen printing of ABS injection molding is dull black which needs to be printed twice The size of		9	PCS	
+++	206040204	Keys 2	ABS injection semi-transparent screen printing is dull black which needs to be printed twice No light can be transmitted		1	PCS	
+++	21701002701	Music stand support	HIPS injection black N/A Size: 40.9*30.4*18.2mm RD180609		2	PCS	
+++	31002005002	Speaker mesh	SPCC T=0.8mm Spray Black Size: 1352.1*95.8*17.6mm RD180612		1	PCS	
+++	318030013	Volume knob	Al-plastic material D-handle sandblasted black Size: φ13*13mm With indicator groove		2	PCS	
+++	642990247	Knob transmittance plate	Transparent PC piece T=1.0 size :?23 silk printing for white rice		2	PCS	
+++	101011822003	Main board ASSY	SP201 PLUS		1	SET	
+++	101030633002	Function board ASSY	SP200		1	SET	
+++	101100738	Headphone board Assy	SP200		1	SET	

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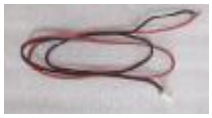
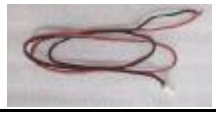
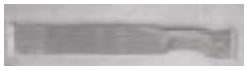
Spare Parts List

+++	628072075	Two sides with Flat connector with cathode plug	4pin L=950mm 26# bule/white two sides with 4pin/2.54mm Prevent fall off connector		1	PCS	
+++	628072149	Flat cable with cathode plug	5Pins L=120mm ＃24 one side with 5pins SM/2.54mm cathode plug another side with 5pins/2.54mm latching		1	PCS	
+++	628072038	Colorized flat cable with cathode plug	2PIN L=420mm RED BLACK 22# 1007 2Pin/2.54 female plug one side 3.5～4.0mm block up 30mm		1	PCS	TO L SPK
+++	628072039	Colorized flat cable with cathode plug	2PIN L=650mm RED BLACK 22# 1007 3Pin/2.54 female plug the 3pin nc one side 3.5～4.0mm block up 30mm		1	PCS	TO R SPK
+++	626000140	Tweeter speaker	BESTONE BSQG13-17B4G 8ohm 20W 2.2 uF tweeter		2	PCS	
+++	628072250	Gray flat cable with cathode plug	14 pin L=300mm 26# two sides with 14Pin/2.54 Prevent fall off connector		1	PCS	
+++	626000173	SPEAKER	SAMCO 3X6寸1771E19E07 4Ω10W SPEAKER		2	PCS	
+++	2020101140 1	Bottom cabinet	HIPS Black N/A YS9291B increase pillar after Change mode		1	PCS	
+++	102060182	Keyboard ASSY	K6S+ 88-key grading weight keyboard SP200		1	SET	
+++	629990120	Deslick silicon gasket	φ22.5*3mm black silicon single layer 3M glue		5	PCS	
+++	3210100630 3	Push cover board L type ironware piece(matal pin)	Hot dip galvanizing N/A Long 1286mm Change the height from 16mm to 13mm		1	PCS	

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Spare Parts List

++	644001194	Foam_Left	Medium density 460*200*140mm RD180613		1	PCS	
++	644001193	Foam_Right	Medium density 460*200*180mm RD180614		1	PCS	
++	644001192	Foam MID UP	Medium density 460*150*124mm RD180615		2	PCS	
++	644001195	Foam MID DOWN	Medium density 460*150*120mm RD180616		2	PCS	
++	641011487	Label	English 64*48mm black word on silvery SP201 PLUS		1	PCS	
++	639003380	Manual	English size: 280*420mm folded in half along the dotted line: 280*210mm 100g		1	PCS	
++	649004546	Carton	K≡ A knife die size :1503*470*225mm Outer size :1515*480*250mm English with "SP201 PLUS"LOGO update		1	PCS	
++	31302006601	Music stand	SPCC T= 1.2mm Round steel φ5.0mm 440*242.7mm surface powder black Thicken the plate to 1.2mm and add one solder joint		1	PCS	

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