

Panasonic®

Service Manual

4.1 Channel Speaker System

Model No.: SC-HT40GW-K

Specification

Output Power(RMS)	: 40W+10W*4
Frequency response	: 40Hz-20Khz
Impedance	: 8Ohm
Signal to Noise ratio	: >= 80dB
Separation	: >= 45dB
Subwoofer driver size	: 6.5"
Satellite Speaker driver size	: 3.0"
Dimensions (W xH xD)	: Woofer 240 mm x 385 mm x 318 mm Satellite 102 mm x 200 mm x 111 mm
Mass	: 10.8kg

Notes :

1. Specifications are subject to change without notice.

Mass and dimensions are approximate.

WARNING.

This service information is designed for experience repair technicians only and is not designed for us by the general public.

It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death/

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“ATTENTION SERVICER”

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer to the Parts No. on the page of “Parts Location and Replacement Parts List” (Section 5), if necessary.

Caution:

Original screws should be used.

Below is the list of disassembly sections

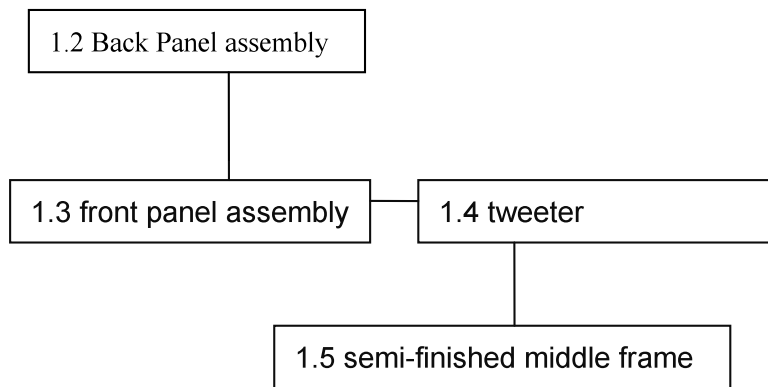
- Disassembly of Back Panel assembly
- Disassembly of front panel assembly
- Disassembly of Tweeter
- Disassembly of semi-finished middle frame
- Disassembly of Satellite

Assembling and Disassembling

1. Disassembling

1.1. Disassembly flow chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.



1.2 Disassembly of back panel



①

Step 1: Remove 10 screws.



②



①



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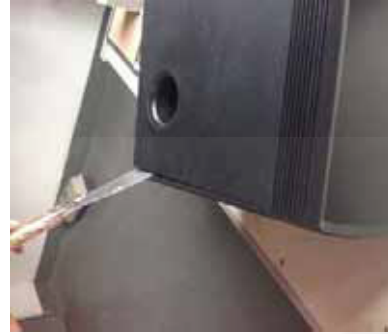
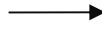
Step 2: take out the back panel from wooden box , then detach 4 cable line away from PCB

1.3 Disassembly of front panel

Follow (step 1) in item 1.2.



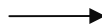
①



②



③



④

Step 1: Insert the knife into the grooves of front panel assembly. Push the steel rule forward and backward as shown above from ①-④

Caution:

Do not exert strong force as it may damage the front panel assembly.

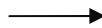
1.4 Disassembly of tweeter

Follow (step 1) in item 1.2.

Follow (step 1) in item 1.3.



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②



③

Step 1: Remove 4 screws.

1.5 Disassembly of semi-finished middle frame

Follow (step 1) in item 1.2.

Follow (step 1) in item 1.3.

Follow (step 1) in item 1.4.



①



②



③



④

Step 1: Upset the speaker unit as shown above, Insert the knife into the grooves of middle frame assembly. One hand press the speaker box, the other hand push the steel rule forward and backward as shown above from ①-④

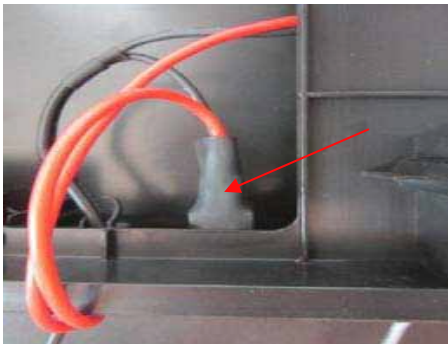


①



②

Step 2: Detach the 8 pin and 7pin cable away from middle frame as above arrow shown from ①- ②.



①



②

Step 3: Use a scissor to cut the heat-shrinkable tube, Press the key by using a tool with a sharp point as above arrow shown, then pull out the red cable.



①

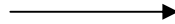


②

Step 4: Remove screws as above shown



①



②

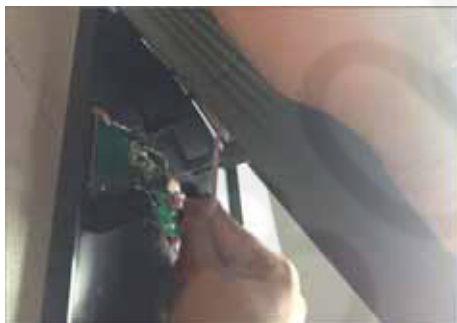


③

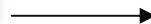


④

Step 5: One hand press and hold the bottom of frame, then another hand, grab the connecting rod outward force to detach the middle frame and top panel. Then the volume knob will come off from top panel automatically.



①



②

Step 6: Pull out the cable as above red arrow show

2 Assembly of Speaker unit



①



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Step1: Insert the cable to the connector, then close the top panel and middle frame



③



④

Step 2: Fix the screws as above shown.



①

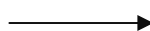


②

Step 3: Install the knob on Top panel.

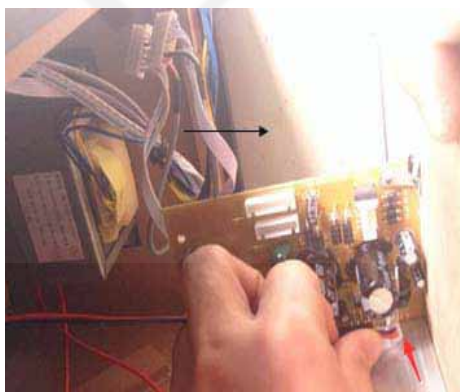


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Step 4: Put the speaker on wooden box, then use 4 screws to fix the speaker.



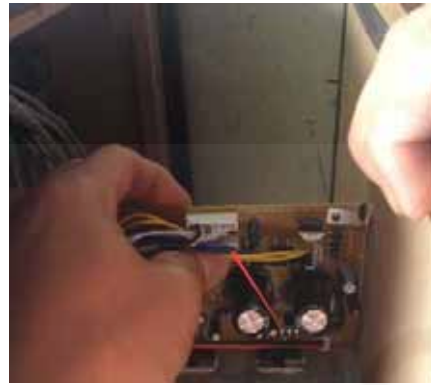
①



②



③



④

Step 5: As above picture ①- ④ shown, Connect 7Pin cable, 8Pin cable, 2Pin cable and transformer primary fuses to Amplifier PCBA



①



②

Step 6: As above picture ①-② shown, install the back panel to wooden box, and use screws to fix it.



①



②



③



④

Step 7: As above picture ①-④ shown, Twist the main cord of woofer middle frame and transformer primary fuses of wooden box together, take a cable connector to link them together. Then thread the transformer primary fuses which with terminal end through into the heat-shrinkable tubing, and insert it on power switch. Use a Heat Gun to heat the heat-shrinkable tube to make it wrap the power switch tightly



①



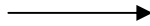
②

Step 8: As above picture ①-② shown, Insert the 7pin cable to control board PCBA, 8Pin cable to Input-Output PCBA



①

Step 9: As shown in the picture, Cover the top panel on wooden box, then use rubber hammer to install it well.



Step 10: As shown in the picture, Install metal grill to wooden box.

3 Disassembly of Satellite



Step 1: Upset satellite speaker as shown above, remove 6 screw.



①



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Step 2: As shown in above picture ①, One hand grab the back panel of satellite unit, then another hand grab the middle frame outward force to detach the middle frame and back panel. Then the satellite top panel will come off automatically as shown in picture ②.

4 Connection of the Speaker Cables

- Be sure to connect speaker cables before connecting the AC power supply cord.
- Be sure to connect the cable of speaker to output RCA plug, connect audio cable to input RCA plug, Connect 3.5mm stereo cable to AUX plug.
- Twist and pull off the vinyl tip of the speaker cords. If the speaker cords do not have vinyl tips, connect them directly to the terminals. Make sure the bare ends of the wires are not unraveled.

Placement

- **Place this unit on a even surface.**
- **To reduce the risk of fire, electric shock or product damage.**
 - **Do not install or place this unit in a bookcase built-in cabinet or in another confined space. Ensure this unit is well ventilated.**
 - **Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.**
 - **Do not expose this unit to direct sunlight, high temperatures, high humidity and excessive vibration**

Notes

- You can damage your speakers and shorten their useful life
- if you play sound at high levels over extended periods.
- Reduce the volume in the following cases to avoid damage.
- When playing distorted sound.
- When the speakers emit strange noise (howling) from a microphone or record player, noise from FM broadcasts, or continuous signals from an oscillator, test disc, or electronic instrument.
- When adjusting the sound quality.
- When turning the unit on or off.

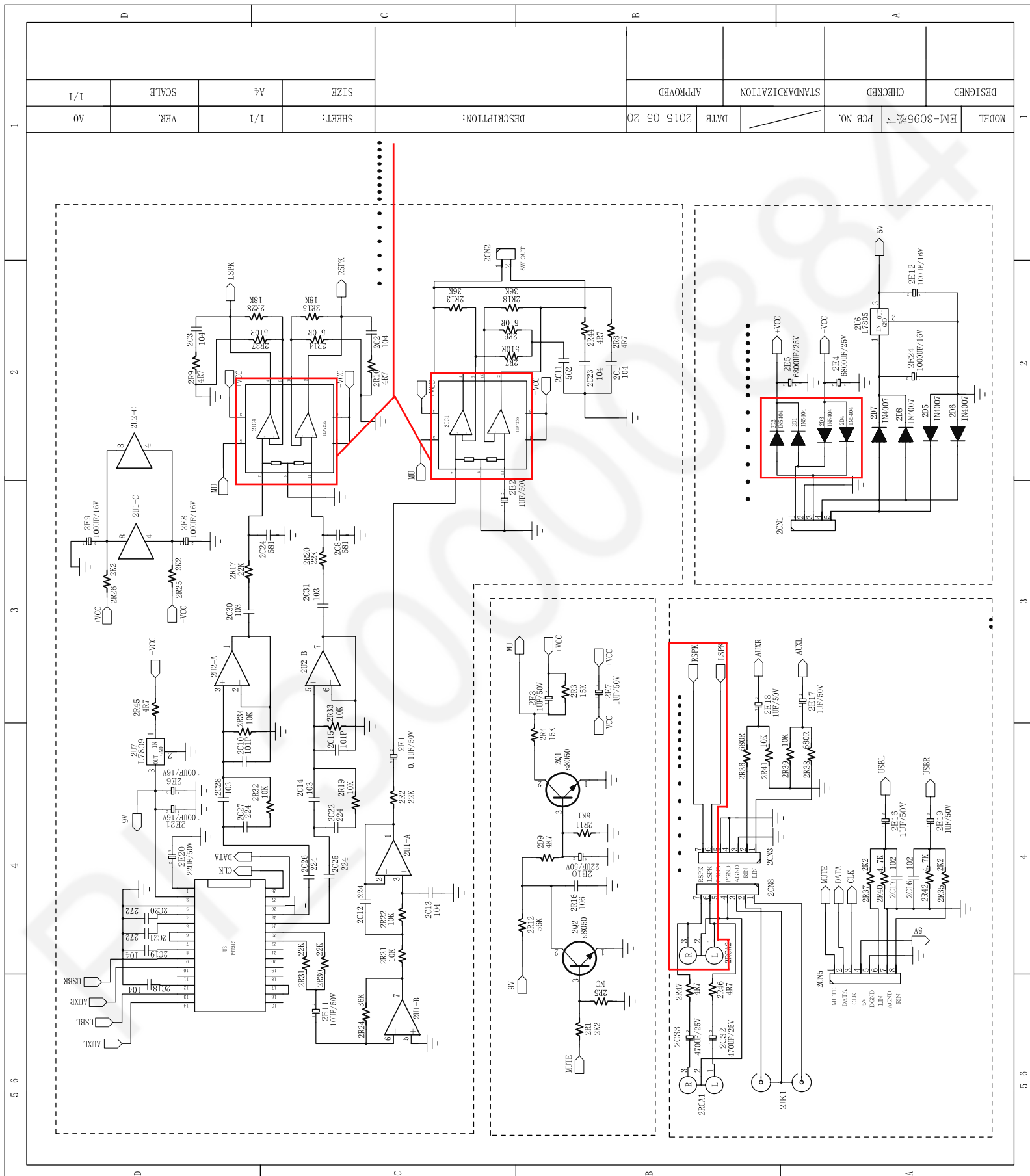
If irregular coloring occurs on your television

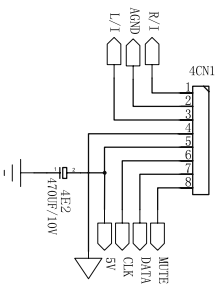
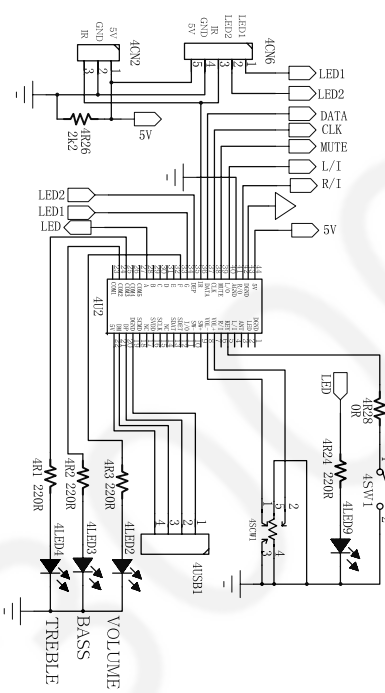
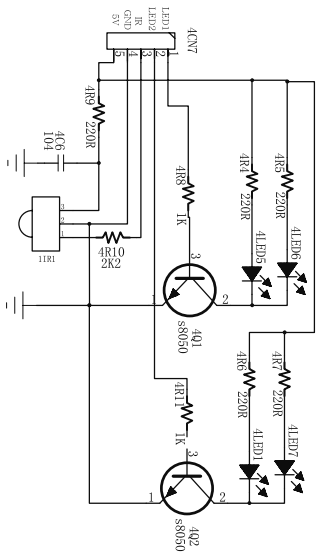
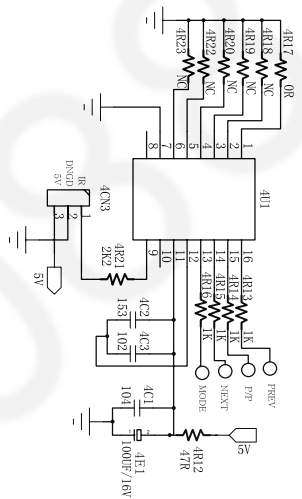
These speakers are designed to be used close to a television, but the picture may be affected with some televisions and setup combinations.

If this occurs, turn the television off for about 30 minutes

The television's demagnetizing function should correct the problem. If it persists, move the speakers further away from the television.

5. Connection of the Wiring Diagram

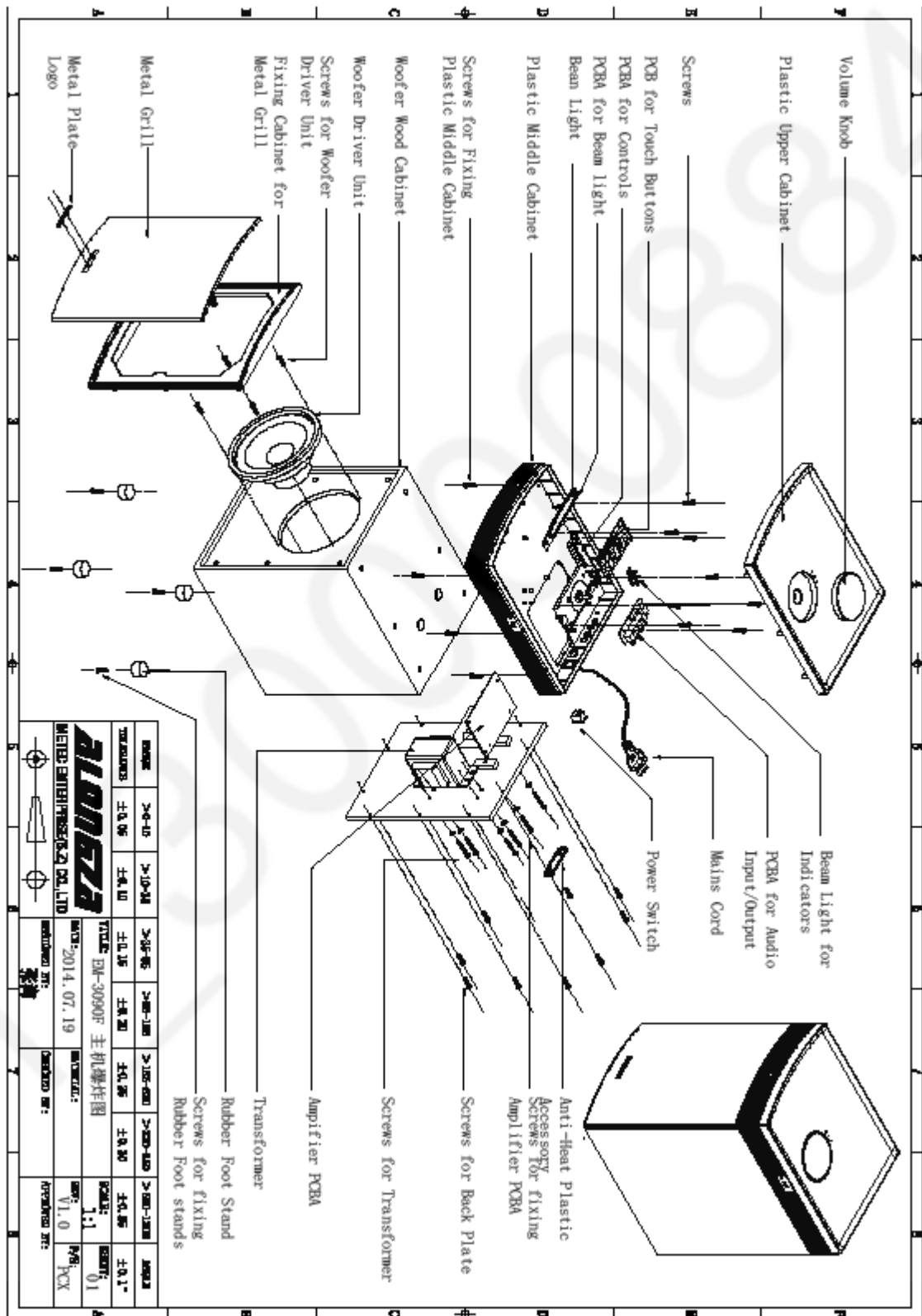




MODEL	EM-3095松下	PCB NO.	<div></div>	DATE	2015-05-20	DESCRIPTION:	SHEET:	1/1	VER.	A0
DESIGNED		CHECKED	STANDARDIZATION	APPROVED			SIZE	A4	SCALE	1/1

6 Exploded view

6.1. Cabinet Parts Location



6.2. Packaging



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Step 1: As shown in picture 1, put the subwoofer on ployfoam B, then put the satellite polyfoam above subwoofer



②

Step 2: As shown in picture 2, put the product into gift box, then add a paper card above the satellite polyfoam

7. Replacement Parts List

Notes :

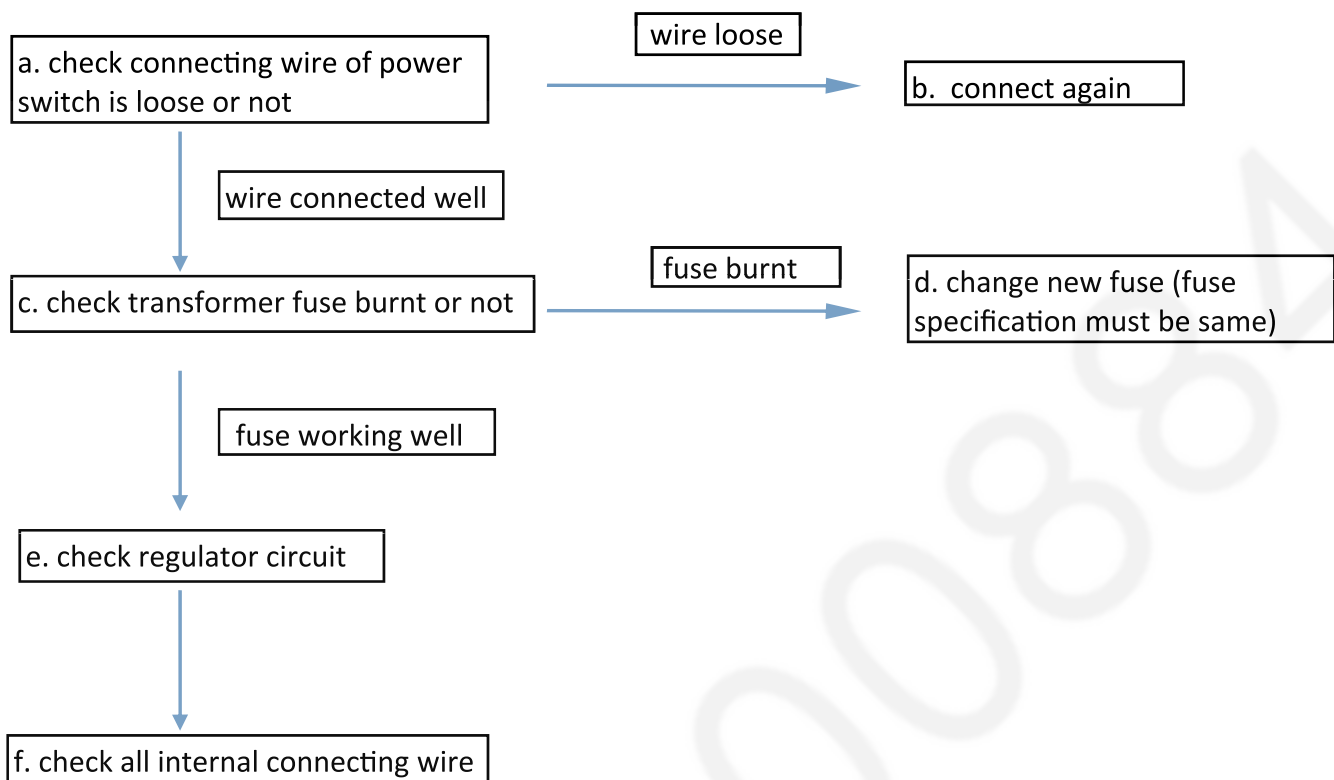
- Important safety notice :

When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

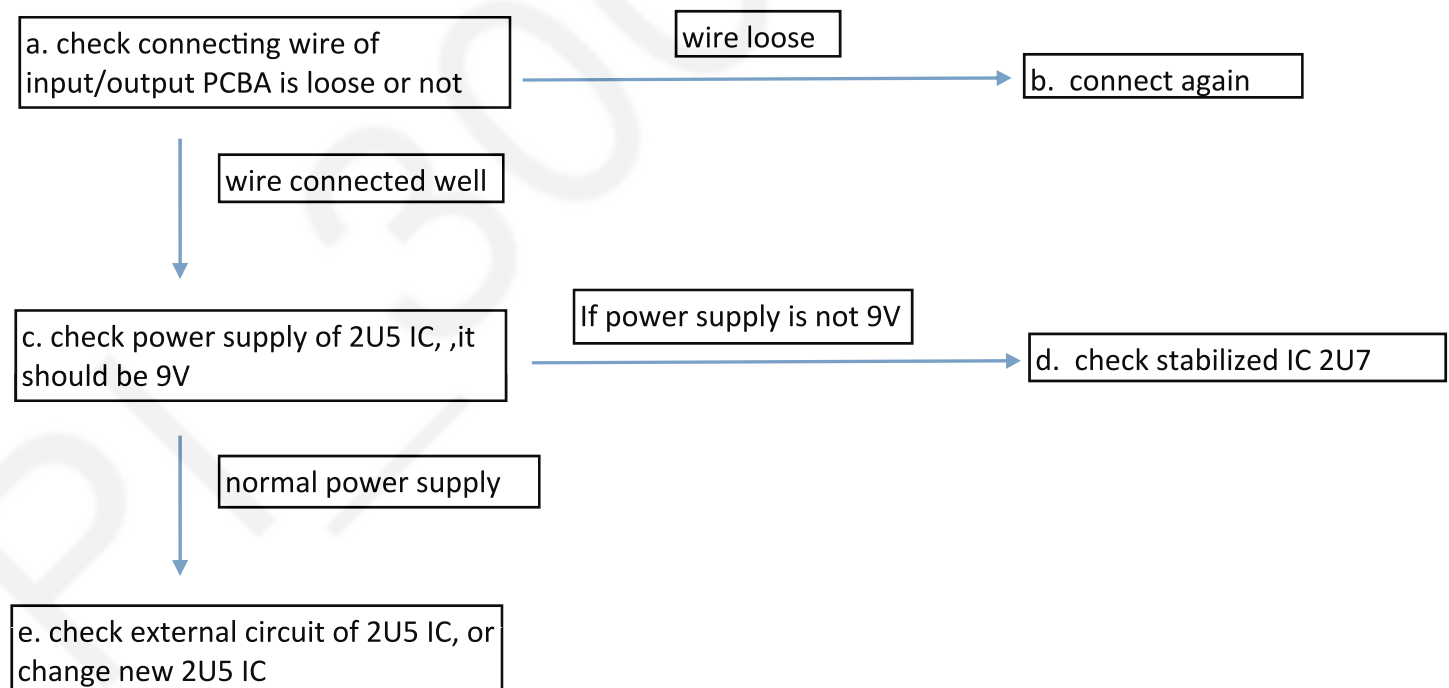
S.NO	Part Code	Description
1	23-072651-000	IC TDA7265
2	42-764223-01R	变压器 transformer
3	40-805065-00R	低音喇叭 Subwoofer speaker
4	40-801530-00R	全音喇叭 Satellite Speaker
5	71-130900-07R	主机顶盖 Subwoofer top panel
6	47-130901-00R	主机铁网 Subwoofer Metal grill
7	87-309500-00R	遥控器 Remote
8	80-309581-10R	彩盒 Gift box
9	90-309520-00A	功放板 Amplifier PCBA
10	90-309540-000	控制板 Control Board PCBA
12	90-309590-000	触摸板 Touchpad PCBA
13	90-309512-000	接收板 LED/IR Receiver PCBA

8.Trouble Shooting

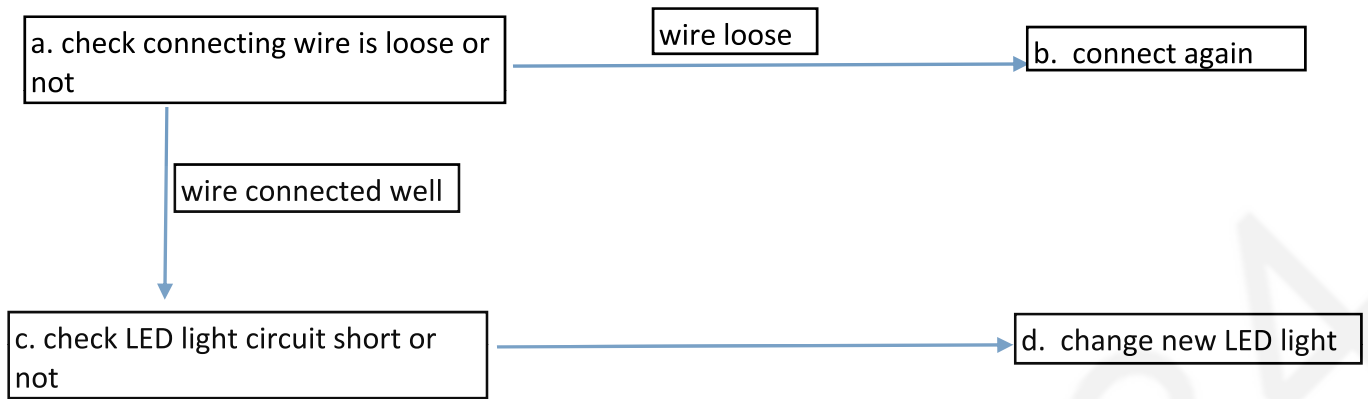
1. No power



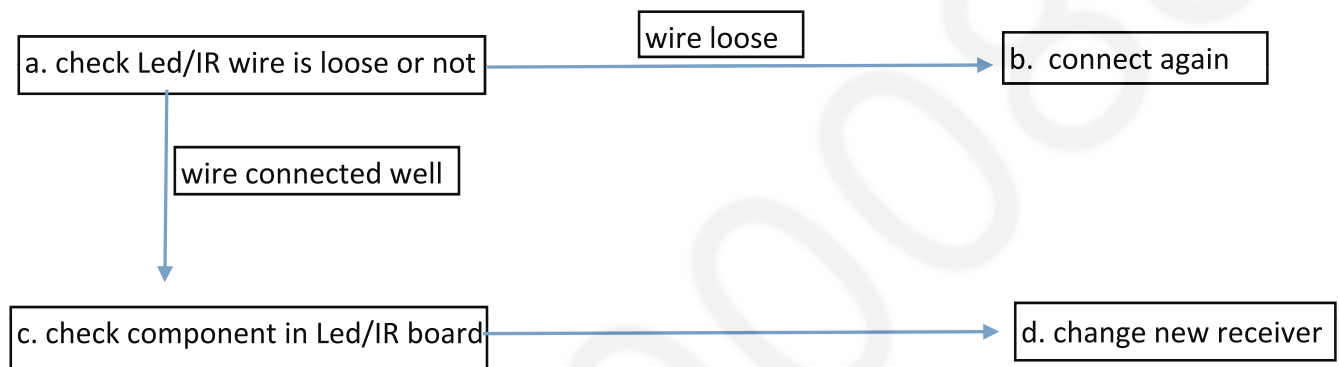
2. No Volume



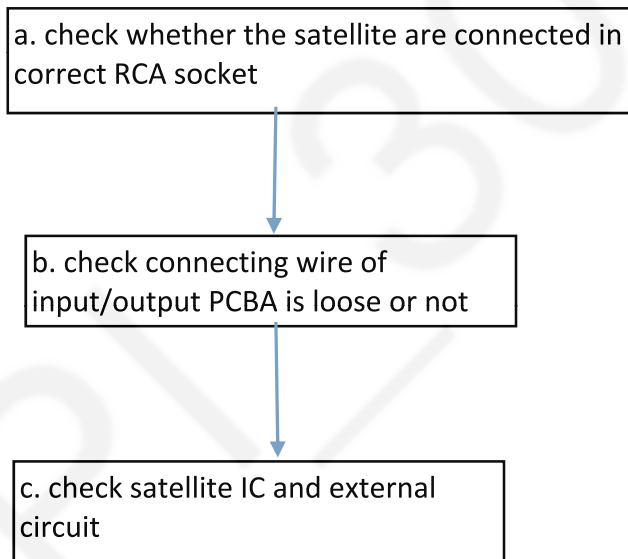
3. LED indicator does not shining



4. Remote not working



5. No treble or only one channel with treble, crosstalk



6. Current Noise

a. check transformer O/P voltage is regular or not



b. check amplifier IC voltage



c. check amplifier IC signal process circuit

7. U disk not working / one channel not working

a. check USB PCBA whether has dry solder;
check USB O/P wire connect well or not



b. change new USB PCBA

8. Touch no working

a. check connecting wire of touch board is
loose or not



b. check touch external circuit



c. change touchable IC

9. No bass

a. check connecting wire of subwoofer speaker



b. check subwoofer IC and external circuit

10. No Bluetooth Signal

