

Service Manual

CD Stereo System



SA-AK340P
SA-AK340PC
SA-AK340PL
SA-AK340E
SA-AK340EB
SA-AK340EG
SA-AK340EE

Colour

(S)... Silver Type

Subject : Additional Contents (F61 troubleshooting)

Please use this manual together with the service manual for Model No. [SA-AK340P/PC-S, Order No. MD0510381C1], [SA-AK340PL-S, Order No. MD0512469C3], [SA-AK340E/EB/EG-S, Order No. MD0512471C2] & [SA-AK340EE-S, Order No. MD0512483C3].

WARNING

This service information is designed for experienced repair technicians only and is not designed for use 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.

1 Background

This technical document illustrates the checking procedures when upon detecting the error code of “F61” after power up.

This is to troubleshoot the Power P.C.B. upon detecting the error code.

1.1. Troubleshooting Guide

The table below shows the symptoms and checking items for troubleshooting the error code.

Symptom	Checking Items	Repair Items	Remarks
FL display blinking with abnormal segment when power ON the set or F61	Check the solderability condition of the Power P.C.B. Is there any solder crack at transistor area? (Q5101, Q5102, Q5111 & Q5112)	Touch-up the solder crack area.	Refer to Fig 2.
First power ON display immediate show “F61”.	Check all the supply line +/- VCC if more than +/- 29V, check clamper circuit components especially Q5110, R5114 & D5102. - Check 15V, MOT12V, CD8V, SW5V supply line.	- Change the defective parts. - Q5110 = B1GACFGA0002 - R5114 = ERJ3GEYJ1R8V - D5102 = B0BA02600018	Refer to Fig 1.
	Check speaker output by using multimeter If there is a DC voltage around +/- 29V, check on the pcb, +/- VCC point with every channel output of D-Amp IC, if shorted, that means D-Amp damage already.	- Change the defective D-Amp IC. - point 1 or 2 short to +/- VCC = change IC5301 - point 3 or 4 short to +/- VCC = change IC5401 - point 5 or 6 short to +/- VCC = change IC5501 - IC part no.:C1AA00000755. +VCC = C5101 (+ve leg) - VCC = C5104 (-ve leg)	
Power ON for a while then only trigger F61. (Symptom always happen)	Check the fan connection to the Main P.C.B. If the fan not proper connected, F61 will trigger when the volume increase.	Re-connect the fan to CN2810.	Refer to Fig 1.
	Check +/- VCC supply balance The +/- VCC supply should be balance. + VCC = +29V and - VCC = - 29V. If the supply is balance, try to reduce the AC supply by 10%. If the symptom does not appear, that means the DC Det line mis-trigger the F61.	- It is due to the resistor tolerance and the DC Det circuit setting is too sensitive to trigger F61. Countermeasure: - Change R5112 & R5113 value as below: - For AK340 change to 390kΩ (Part No. ERJ3GEYJ394V)	

1.2. Location of replacement parts

This section includes the location of the parts for changes of improvement.

1.2.1. Location of Resistors (R5112, R5113 & R5114), Transistors (Q5110, Q5111 & Q5112) & Diode (D5102)

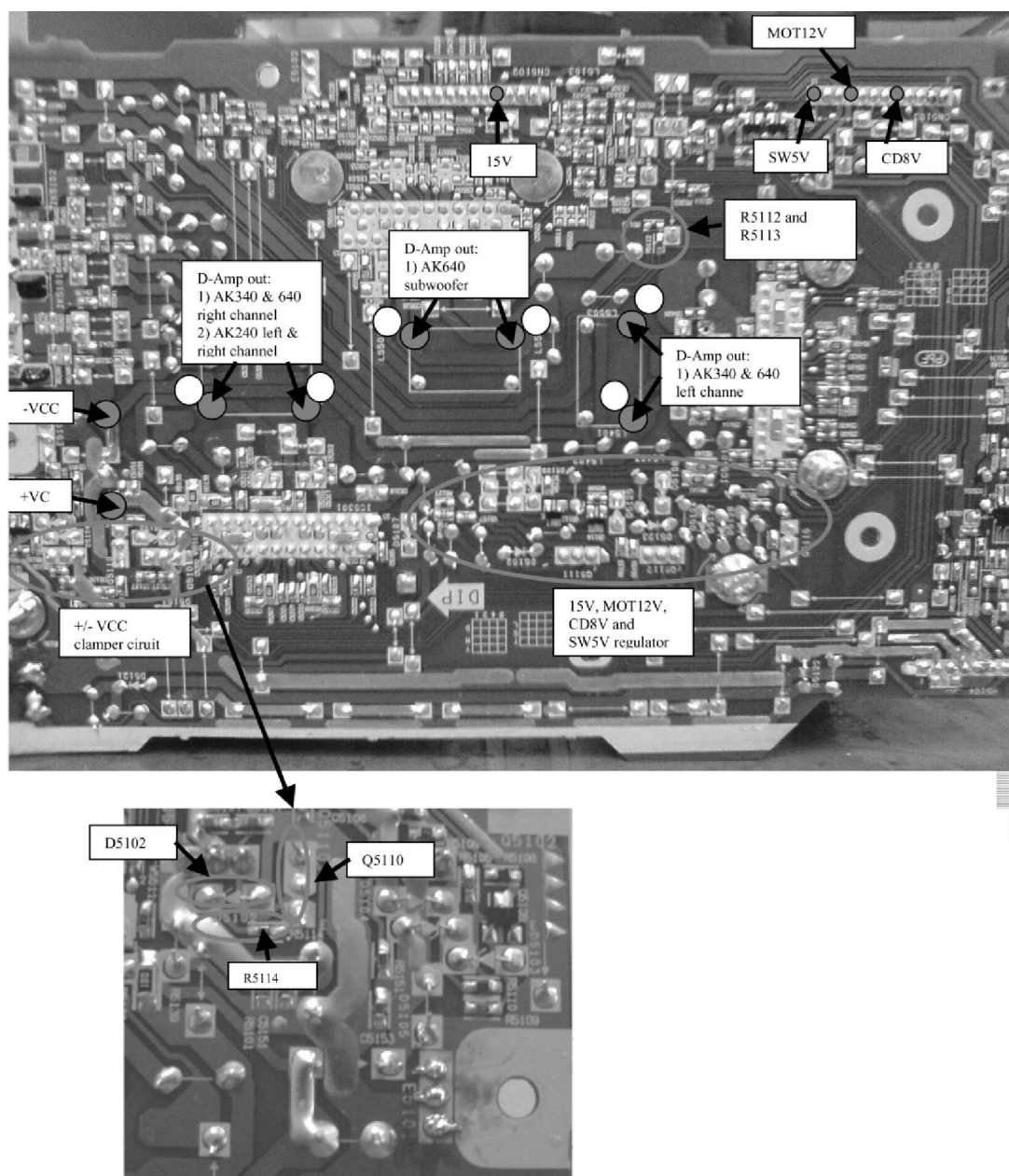


Fig. 1

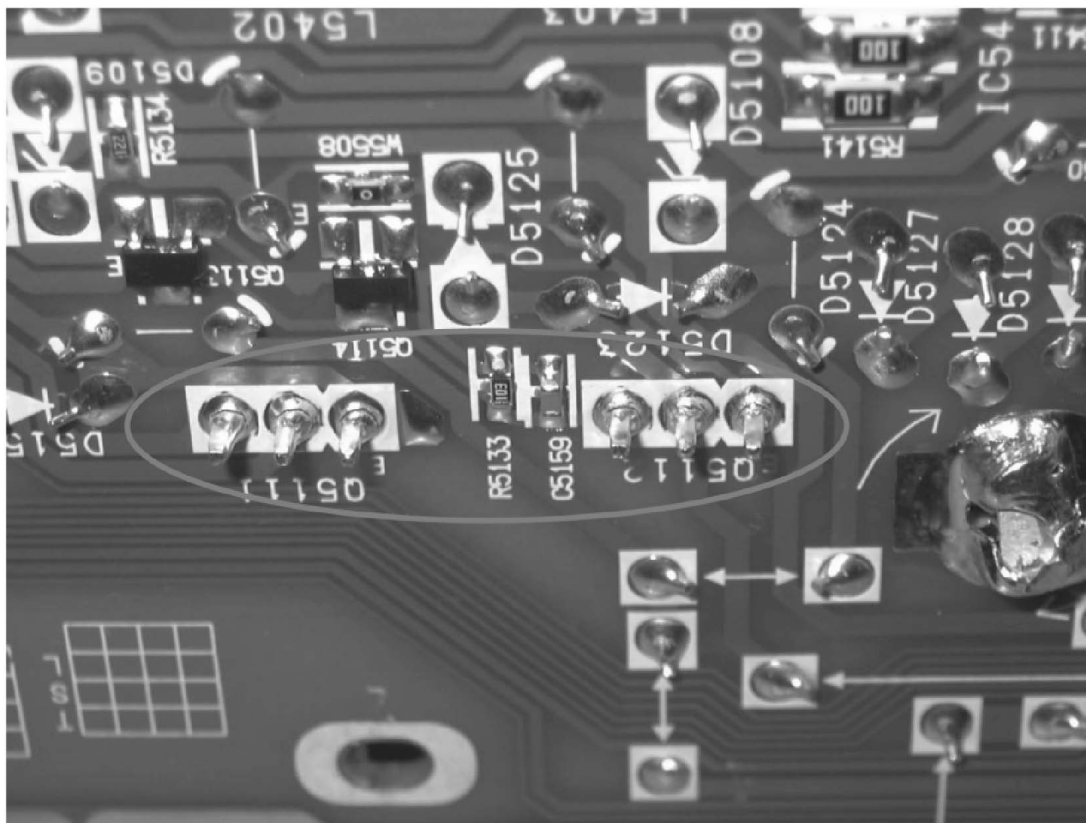


Fig. 2

Note:

Refer to Power P.C.B. diagram (page 78) for SA-AK340P/PC-S & SA-AK340EE-S.

Refer to Power P.C.B. diagram (page 80) for SA-AK340E/EB/EG-S & SA-AK340PL-S.