

Hi-Fi Products Service Bulletin

CSA-13

Sony Service Company - Technical Services
A Division of Sony Electronics Inc.
Sony Drive, Park Ridge, New Jersey 07656

Model: D-311

No. 437

Subject: Battery does not charge up all the way: Add the charge Kit

Date: May 2, 1995

Symptom:

(**)

Battery is not able to operate unit for more than two hours even though battery was fully charged (charged for more than 4 hours)

Solution:

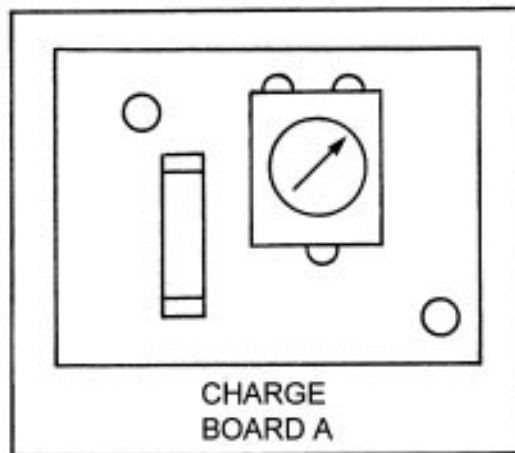
Replace Resistor R424 in the Charge Detection circuit with the Charge Bd. Mount kit and perform the following modification procedure.

REF	FORMER		NEW	
	DESCRIPTION	PART NUMBER	DESCRIPTION	PART NUMBER
R424	CHIP RESISTOR 100 KOHMS	1-216-845-11	CHARGE BD A. MOUNT KIT	X-4945-506-1

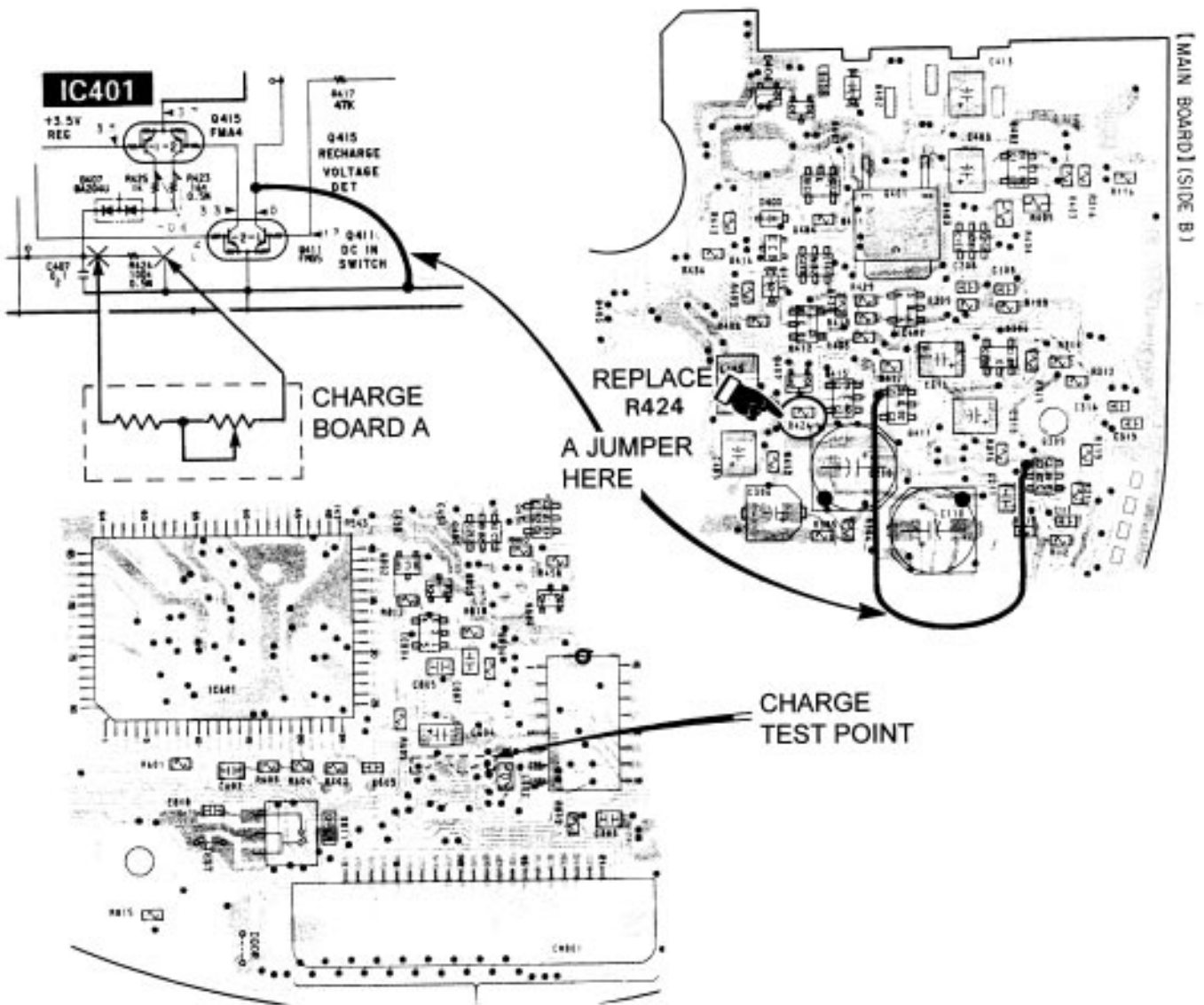
Procedure:

Set the variable resistor on the CHGA board counterclockwise, until the resistance measured between the CHGA board's leads is at a minimum (about 10K).

Remove R424 and solder the leads of the CHGA board in its place.



- Adjustment:**
- 1) Place a jumper between the collector -1 of Q411 and the emitter-2 of Q309.
 - 2) Apply between 3.95 to 3.98 VDC to the rechargeable battery terminals.
 - 3) Press the "STOP" button to make sure the unit is in the charge conditions.
 - 4) Monitor IC801/pin 69, it should be high. Turn the variable resistor clockwise on the CHGA bd until IC801/pin 69 goes low.
 - 5) Adjust the voltage at the battery terminals to 3.8V DC. Confirm that IC801/pin 69 changes from low to high.
 - 6) Gradually increase the voltage insuring IC801/pin 69 goes from high to low when the voltage is again between 3.92 and 3.98 V
 - 7) Remove the jumper.



Filename: HFP0437.SB
Directory: J:\SBDOC\MAY95
Template: C:\WINWORD\TEMPLATE\S_BULL.DOT
Title: battery doesn't charge
Subject: d311
Author: Hoyt Wing Lee
Keywords:
Comments:
Creation Date: 05/02/95 9:06 AM
Revision Number: 5
Last Saved On: 01/23/96 10:39 AM
Last Saved By: Cesar Bechbache
Total Editing Time: 40 Minutes
Last Printed On: 04/01/96 9:55 AM
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