harman/kardon   Service Bulletin

To: All harman/kardon Service Centers

Model: AVR254, AVR354, AVR255, AVR355

Subject: AVR upgrade

In the event you receive an AVR254, AVR354, AVR255, AVR355, this procedure should be followed for every unit that needs to be serviced, for any reason.
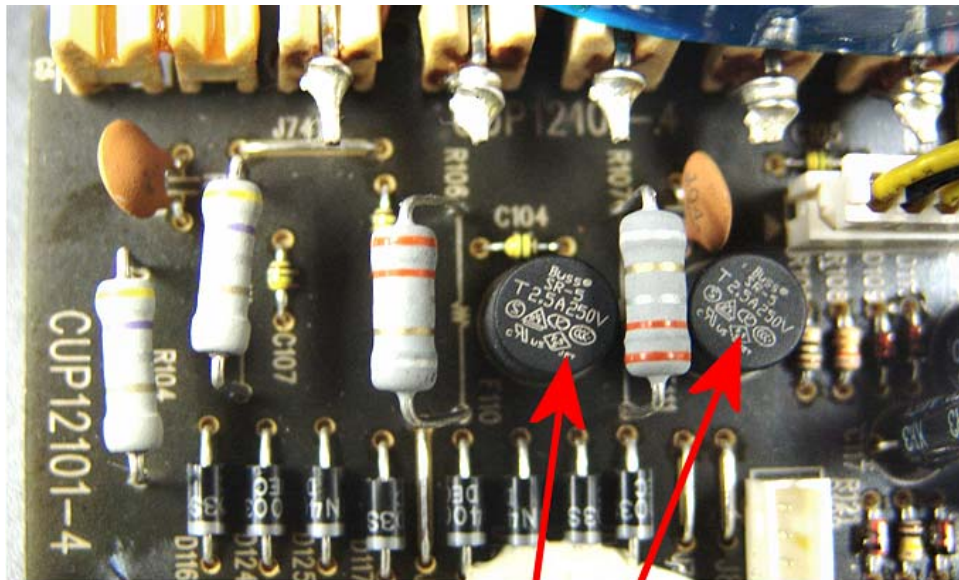
Synopsis:

- **Change fuses F110, F111.** Current fuse rating of 2.5A may be underrated and fail under certain line condition/current surge or other application related circumstances. Failure will result in total loss of HDMI output.
- **Add a wire (jumper) from HDMI board to Regulator board.** Certain HDMI-connected video images on some program material may stress certain connections, which will affect video output (scrambled or blank screens).
- **Download and install recent software version for selected models.** Explanation of issues the revised software addresses can be found at www.harmankardon.com under SOFTWARE UPGRADE INSTRUCTIONS.

  Note: RoHS-rated* soldering equipment will be required.

Part 1:

Locate the Power Transformer PCB CUP12101-4 and unsolder and remove black encapsulated fuses F110, F111 (2.5A/250V); replace with 3.15A/250V rating, hk part# KBA2D3150A2EYT or hk part# H03-FURN23150SR-R. These can be replaced without removing the power transformer and its two attached PCB's (CUP12101-3/4). See image for location.
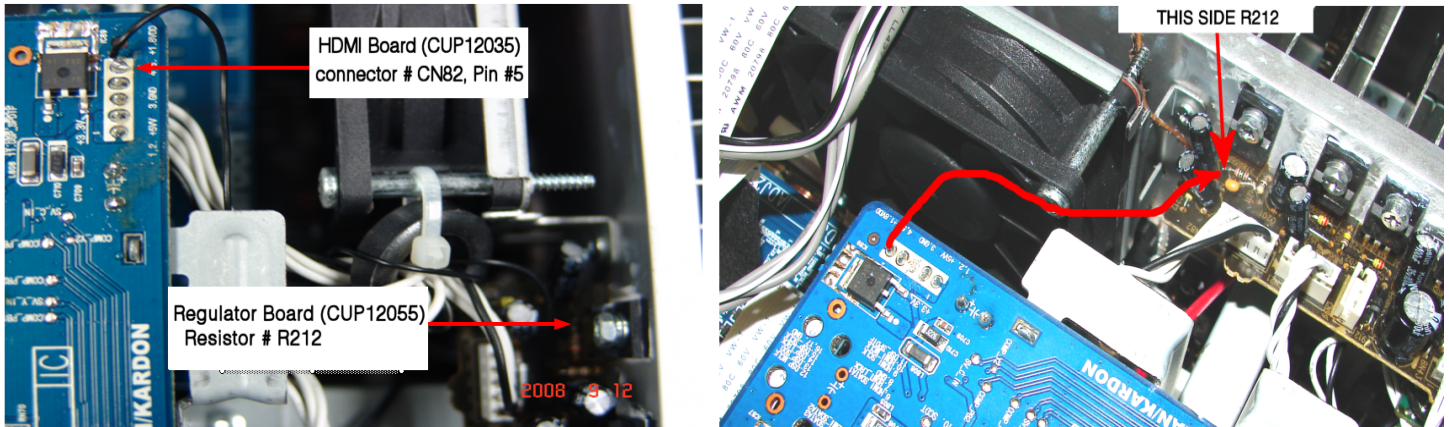

F110,F111

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Part 2:

Install a new insulated jumper wire (#18 to 20 gauge) in the following location to make a new connection between HDMI Board (CUP12035) connector # CN82, Pin #5 (nearest the corner of the board) to one end of resistor R212, (nearest the fan), on the Regulator Board (CUP12055). See image for location.

Part 3

Download and install the latest software for exact model AVR from www.harmankardon.com following all instructions on the web page. Version numbers are shown below.

New software version			
Model	**MCU (microprosssor)**	**HDMI**	**DSP**
AVR254	07-10-2008 03	v0.93.1.1	AVR355SF_08.28-01
AVR255	07-10-2008 03	v0.93.1.1	AVR355SF_08.28-01
AVR354	07-10-2008 03	v0.93.1.1	AVR355SF_08.28-01
AVR355	07-10-2008 03	v0.93.1.1	AVR355SF_08.28-01

Note when the current version of the software is checked, only the MCU (microprosssor) and HDMI version numbers will be appear in the main display.

Checking current version of software:

- With the AVR turned on, in any function except Tuner, press the 1, 2, 3 and 4 buttons on the remote in that order; then press the OK button.
  (If nothing happens, press the 1, 2, 3 and 0 buttons on the remote in that order; then press the OK button. If this sequence is required, it's an indication the unit has been upgraded at least once already)
- After a short pause, the software version number will appear on the AVR's front-panel display.
- If the version number is lower than the number listed above, (MCU microprosssor), the unit will need an upgrade.
- If the display matchs the chart, no further action is required.

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MODEL	SERIAL NUMBER (120V)	SERIAL NUMBER (230V)	STATUS	ACTION
AVR254	AN0084-01001 to AN0084-08800		Upgrade needed for peak performance	Change fuses F110,F111 Add jumper wire Install latest software
AVR254	AN0084-08801 And above		Modified By Factory	NONE REQUIRED
AVR354	AN0086-01001 to AN0086-06000		Upgrade needed for peak performance	Change fuses F110,F111 Add jumper wire Install latest software
AVR354	AN0086-06001 And above		Modified By Factory	NONE REQUIRED
AVR255		AN0085-01001 to AN0085-05500	Upgrade needed for peak performance	Change fuses F110,F111 Add jumper wire Install latest software
AVR255		AN0085-05501 And above	Modified By Factory	NONE REQUIRED
AVR355		AN0088-01001 to AN0088-03400	Upgrade needed for peak performance	Change fuses F110,F111 Add jumper wire Install latest software
AVR355		AN0088-03401 above	Modified By Factory	NONE REQUIRED

* RoHS = Restriction Of Hazardous Substances. Recommended lead-free solder 96.5/3.0/0.5