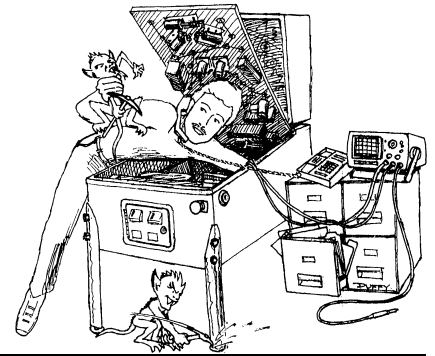




Nº 133 SERVICE BULLETIN



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Engineer

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Technical Support Doc.
Administrator

TO: Parts & Service Managers

DATE: April 1, 2002



and



only.

SUBJ: Monopoly® & Austin Powers CPU/Sound Board Modification
Low Volume Setting Hum

Symptom:

Undesirable hum and some audible distortion when the volume is set below **Level 4** in the **Volume Menu** (accessed by pressing the "Red" Button first of the Service Switch Set on the Coin Door; Level Range is 0 - 31).



Explanation:

Due to the large number of games being sold in the "Home Market," it was brought to our attention that **at very low** volume settings, there is an undesirable hum in the audio. To eliminate the hum (at very low volume), we are suggesting two (2) Resistor changes which will reduce the gain of the amplifier, however, will ensure the proper balance between the upper and lower channels are intact.

Note 1: *This will reduce the overall loudness of the game; you will need to set the Volume Level higher to achieve the same level you had before.*

Note 2: *This update on the CPU/Sound Board (SPI Part Number: 520-5136-16) is backwards compatible, though you may have to TURN UP or DOWN the factory default volume setting depending on the game.*

Solution:

Have a qualified technician change **R110** to a 33K Ω 1/4 Watt Resistor and change **R106** to a 10K Ω 1/4 Watt Resistor.

Resistor Color Codes	
33K Ω 1/4 Watt Resistor	ORG-ORG-ORG-GOLD
10K Ω 1/4 Watt Resistor	BRN-BLK-ORG-GOLD

View the following page for the locations of R106 & R110 on the CPU/Sound Board.

Change
R110 to:

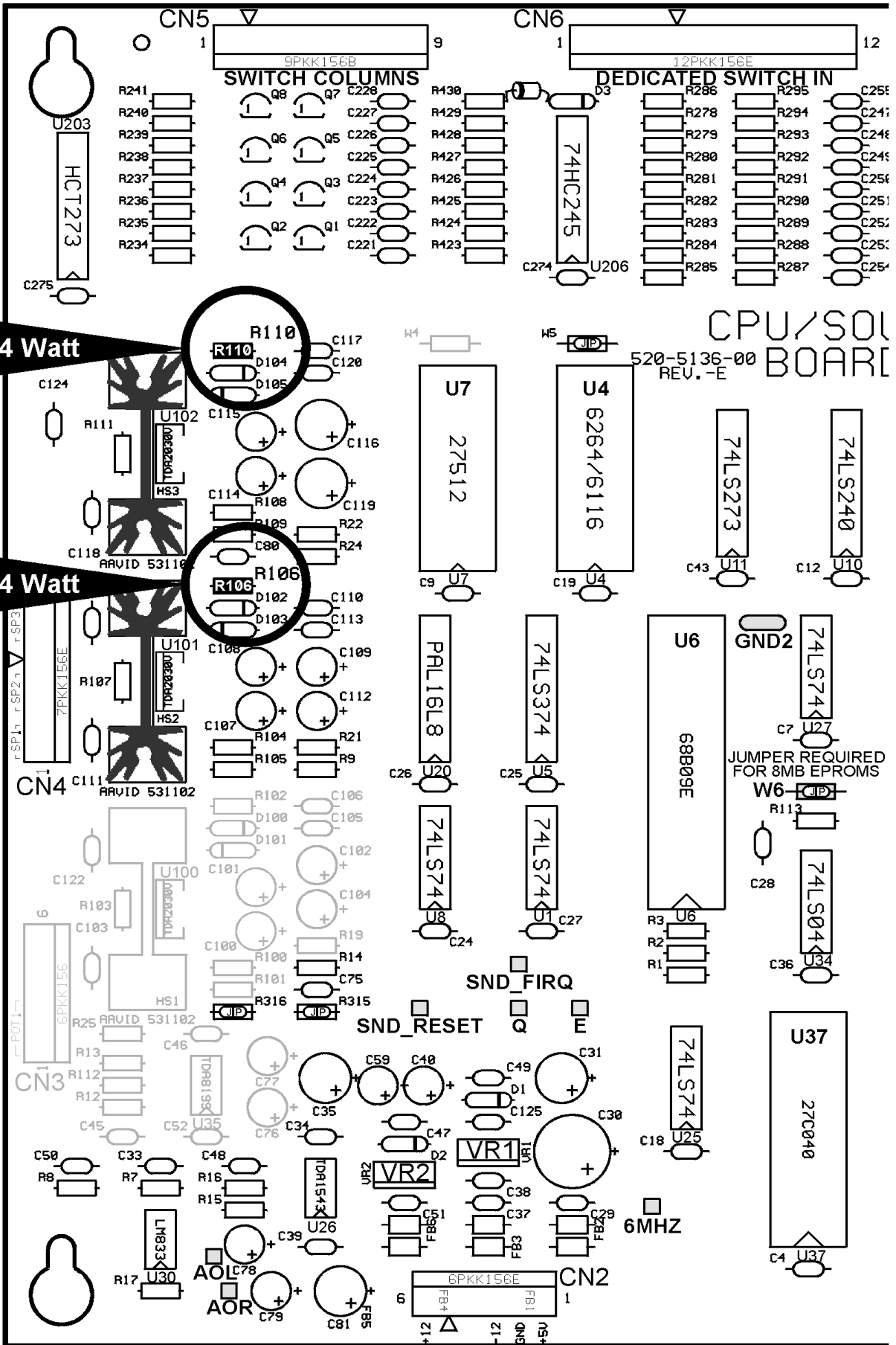
Resistor
33K Ω 1/4 Watt

Color Code:
ORG-ORG-ORG-GOLD

Change
R106 to:

Resistor
10K Ω 1/4 Watt

Color Code:
BRN-BLK-ORG-GOLD



Please phone or eMail with any questions or comments at the below numbers or address.

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