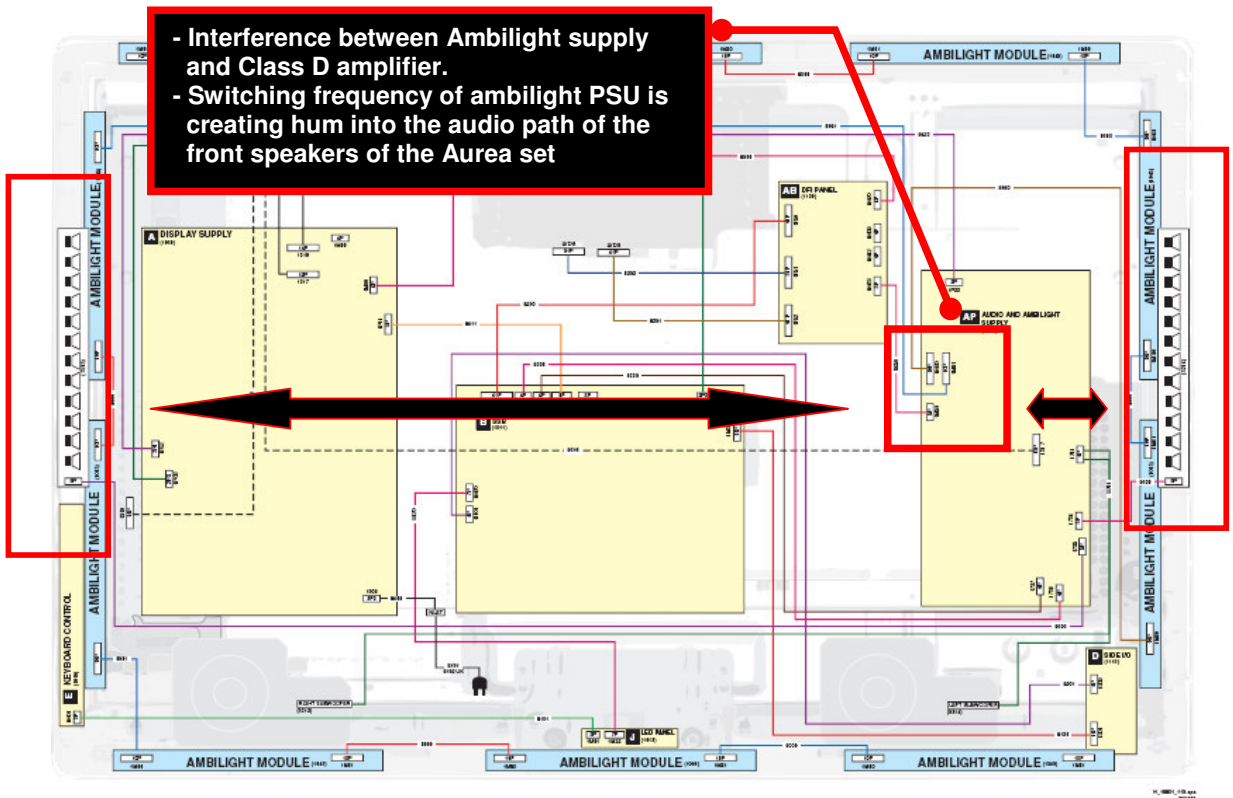


SCC_66319: Rework instructions “High pitch noise audible from the speakers”

1. Symptom

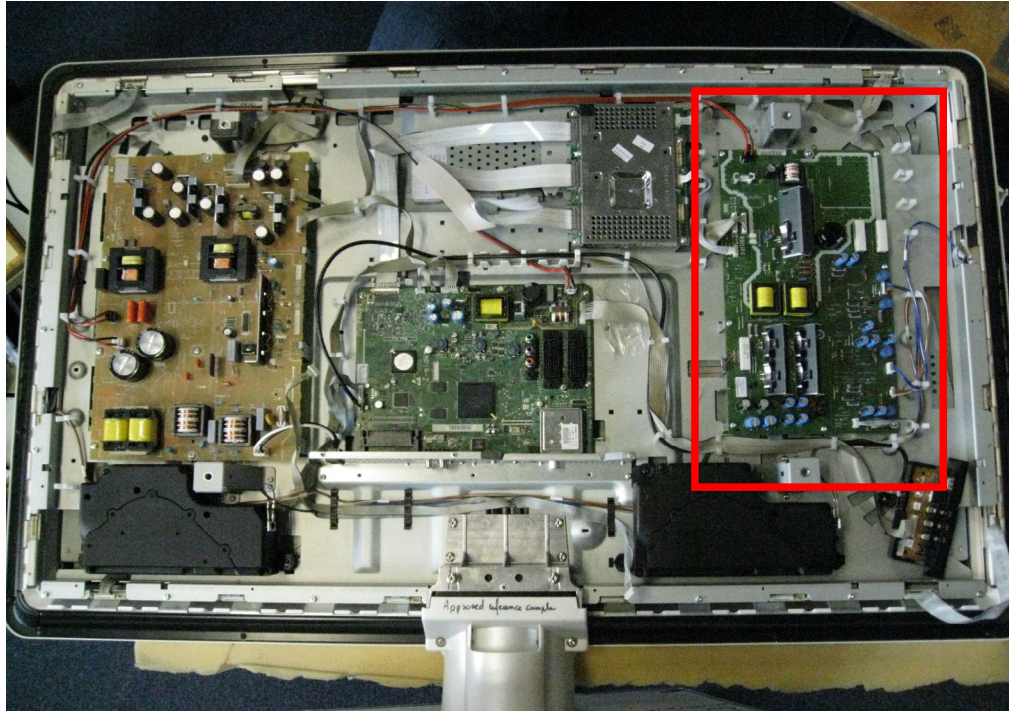
When Ambilight is set to "on", noise can be heard from the front speakers (it is reported as "high-pitch modulated sound audible from the speakers"). This sound is also present when ambilight is "off" but with different frequency. When audio is muted, the noise is gone.

2. Root cause description



3. Solution description

→ Rework on the Audio & Ambilight Supply:



→ Change both Class D working frequencies of L/R front amplifier and Bass amplifier

L/R amplifier: from 135 kHz to 185 kHz

Bass amplifier: from 185 kHz to 155 kHz

→ This is done by changing the following components on the Audio and Ambilight Supply:

2D29: from 1.5 nF to 1 nF (319801631020)

2D28: from 1.5 nF to 1 nF (319801631020)

3D36: from 4k7 to 3k9 (319802133920)

2D03: from 1.5 nF to 1 nF (319801631020)

2D04: from 1.5 nF to 1 nF (319801631020)

3D11: from 4k7 to 3k9 (319802133920)

2D80: from 1 nF to 1.5 nF (223891611552)

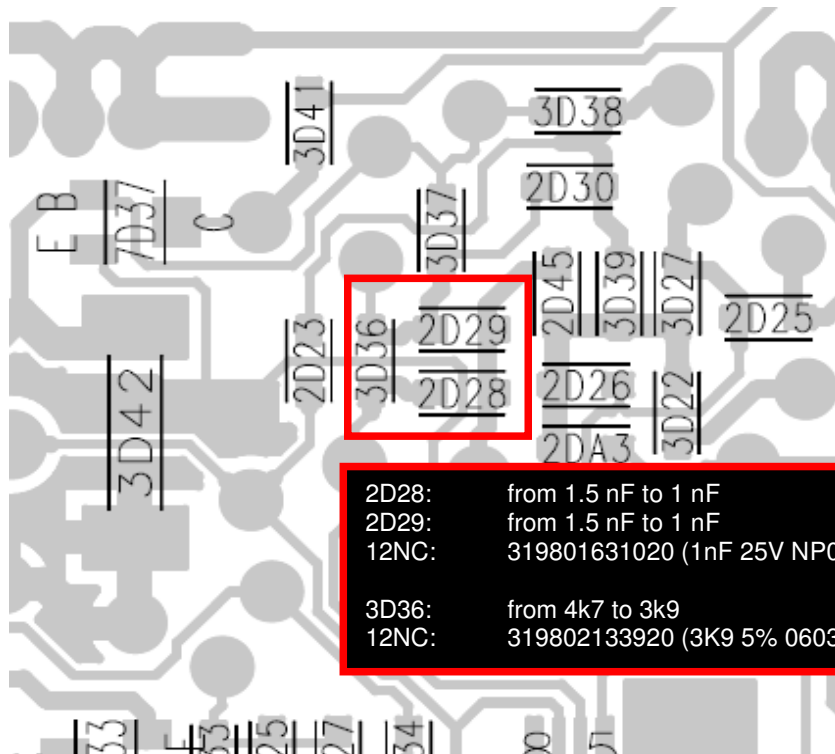
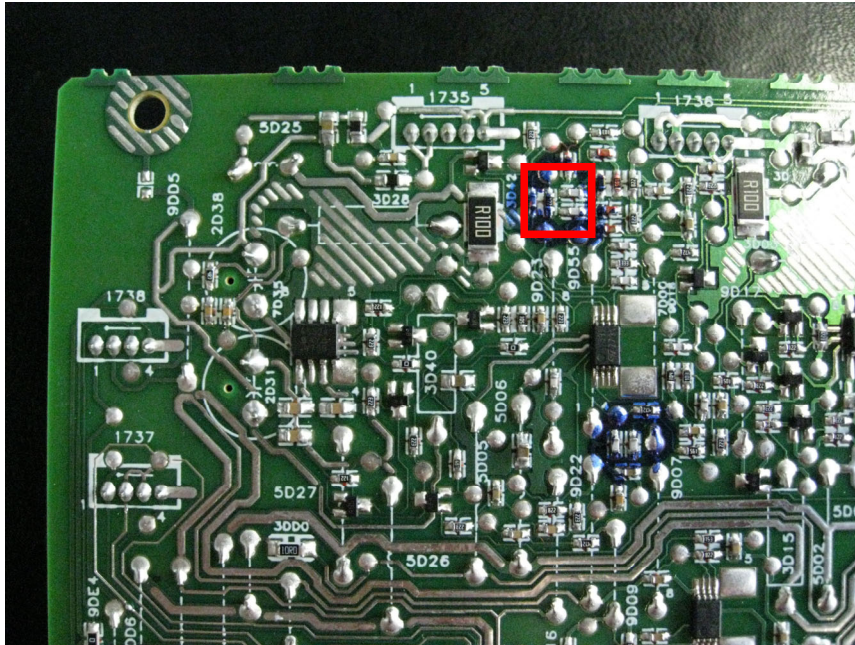
2D81: from 1 nF to 1.5 nF (223891611552)

2D77: from 1 nF to 1.5 nF (223891611552)

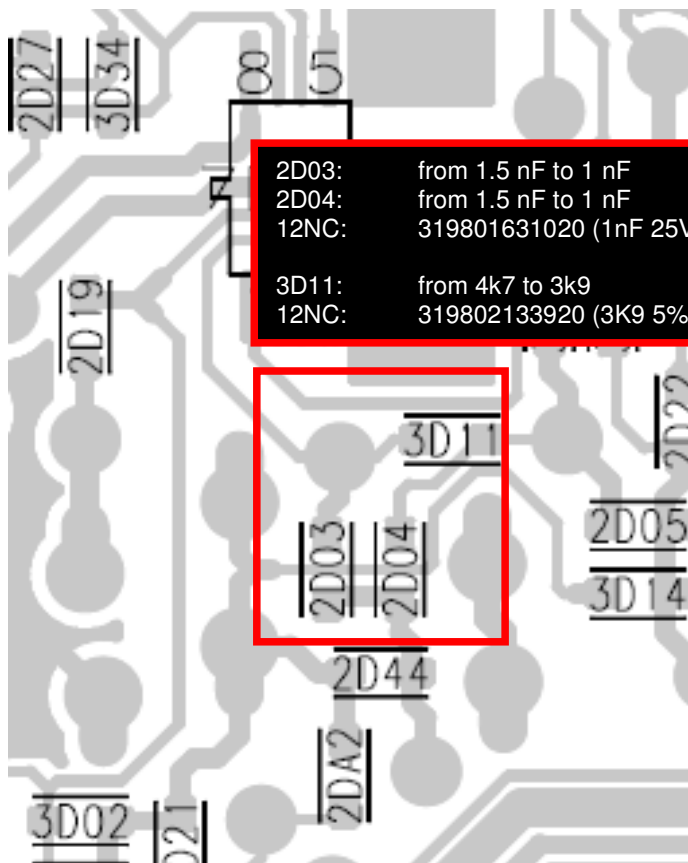
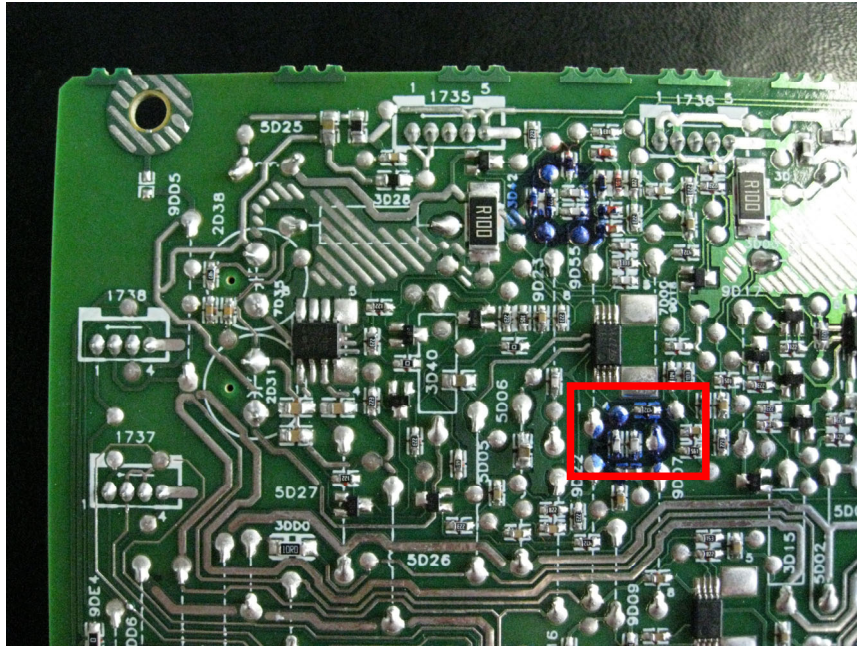
2D78: from 1 nF to 1.5 nF (223891611552)

4. Solution details

→ Change Class D Right Audio Channel

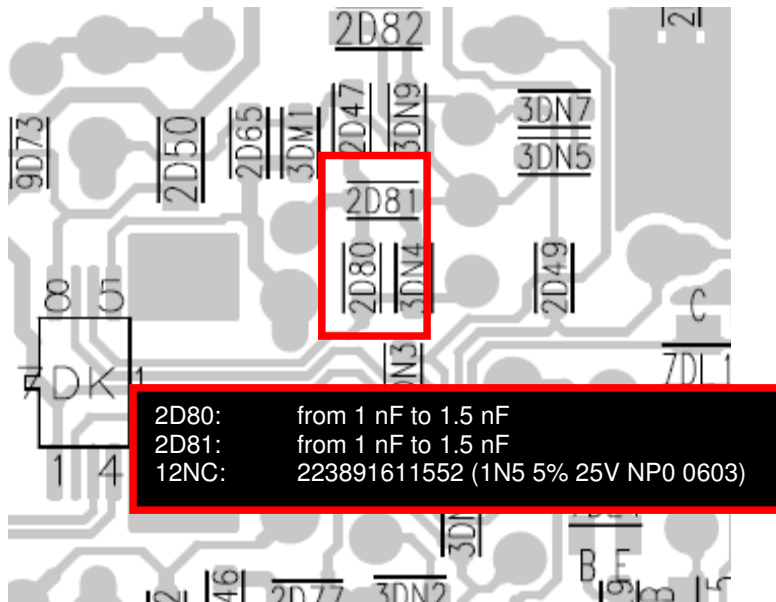
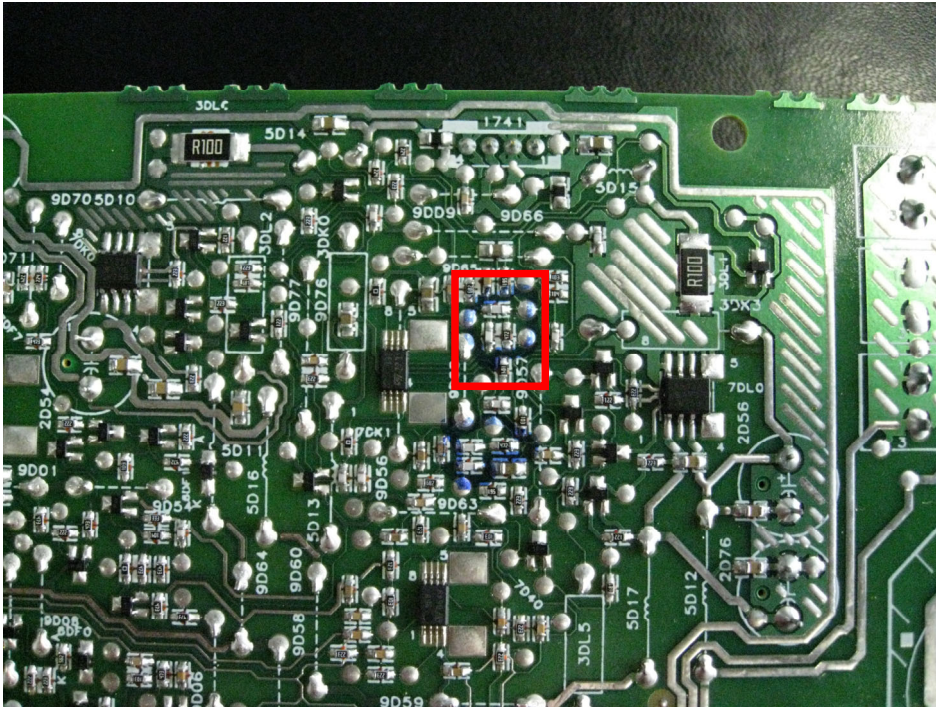


→ Change Class D Left Audio Channel

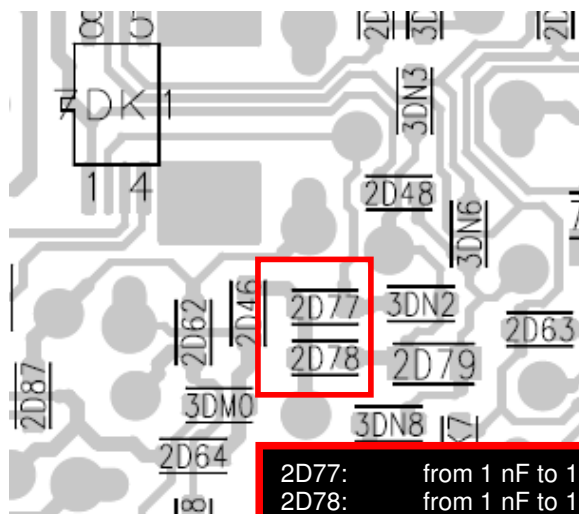
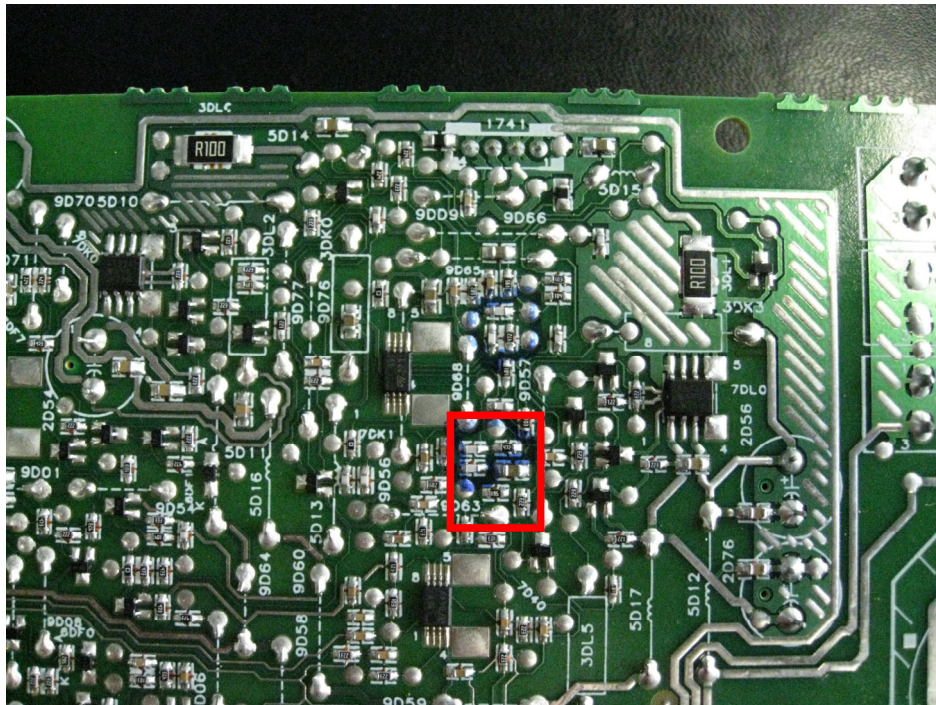


2D03: from 1.5 nF to 1 nF
2D04: from 1.5 nF to 1 nF
12NC: 319801631020 (1nF 25V NP0 0603)
3D11: from 4k7 to 3k9
12NC: 319802133920 (3K9 5% 0603)

➔ Change subwoofer Right channel frequency



→ Change subwoofer Left channel frequency



2D77: from 1 nF to 1.5 nF
2D78: from 1 nF to 1.5 nF
12NC: 223891611552 (1N5 5% 25V NP0 0603)