

# **BMW Logic7, BM54 amplifier "no sound" repair kit**

## **This kit will NOT fix if:**

- \* There is no orange light, or there is no radio menu
- \* If there is high pitch squealing sound in all speakers, which changes the frequency by changing treble and bass.

## **It will fix if:**

- \* You have lost sound in one or more channels
- \* If You have crackling, distorted sound.

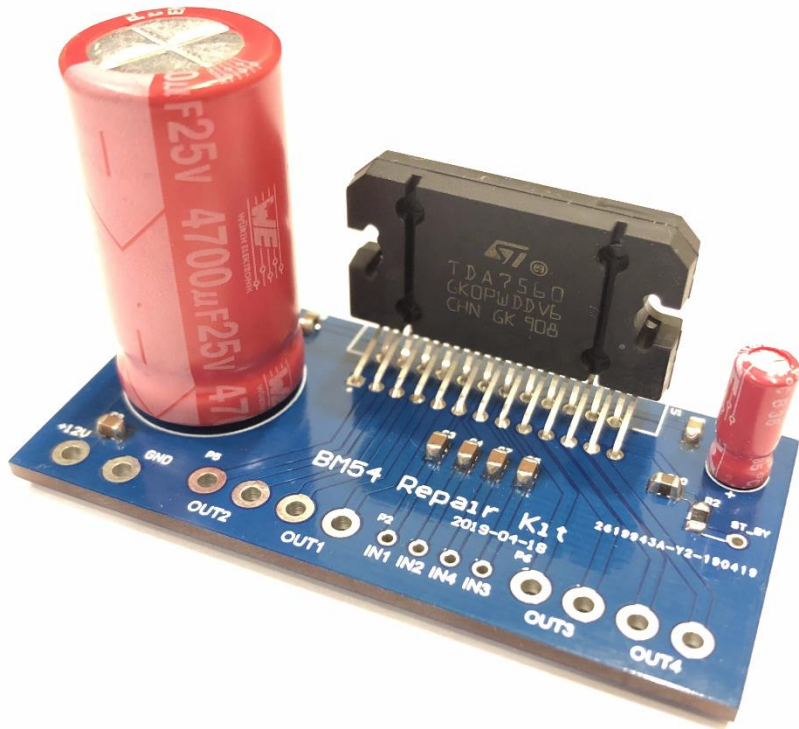
## **Tools You needed:**

- \* Soldering iron with good soldering skills
- \* 3mm drill
- \* TX8 screwdriver
- \* Thermal grease
- \* Bolts and nuts
- \* Wires (recommended wire gauges: AWG 16 and 8)

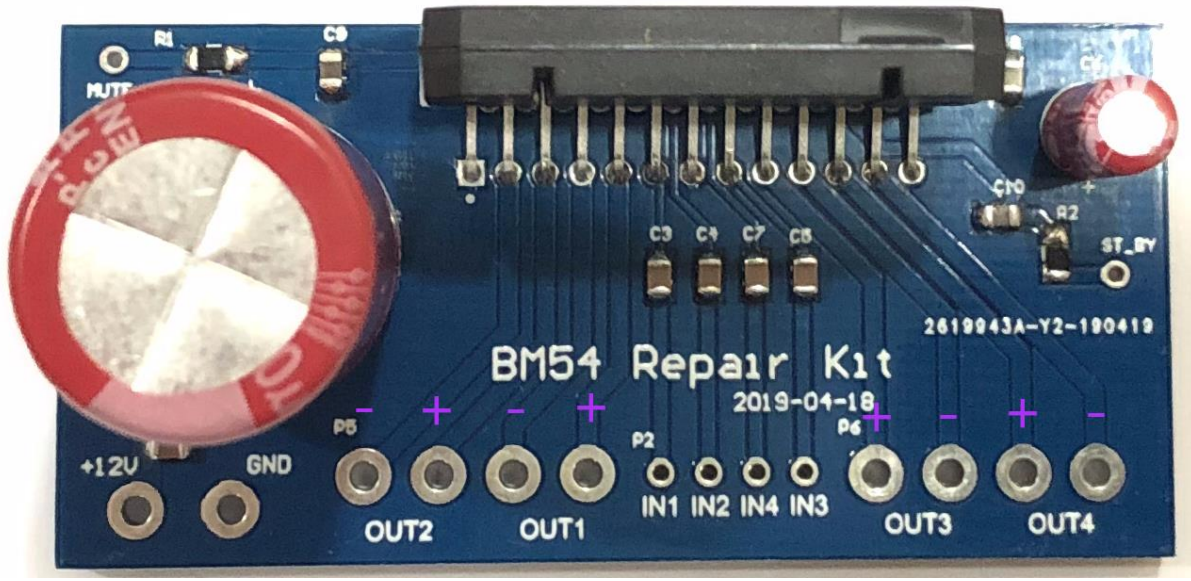
## **Whats included:**

- \*Specially designed, high quality, blue PCB with amplifier
- \*Illustrated instruction in English language.

*As its DIY repair, I don't hold any warranty of your job. Make sure You have enough skills for this job. Every kit is tested and fully working.*



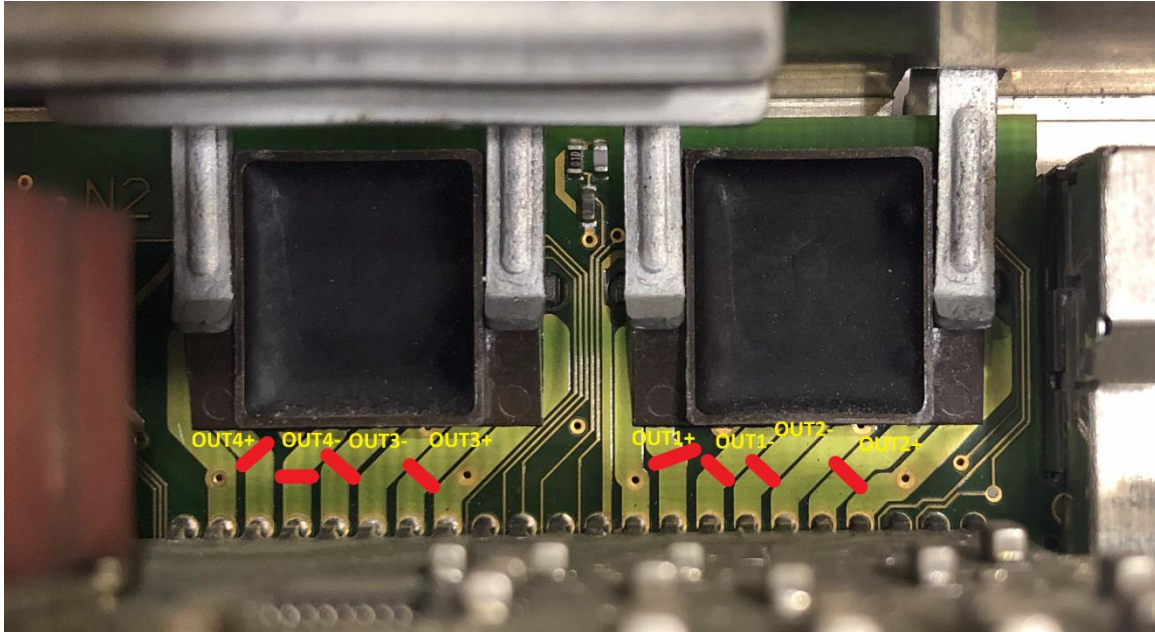
1. BM54 repair kit side view



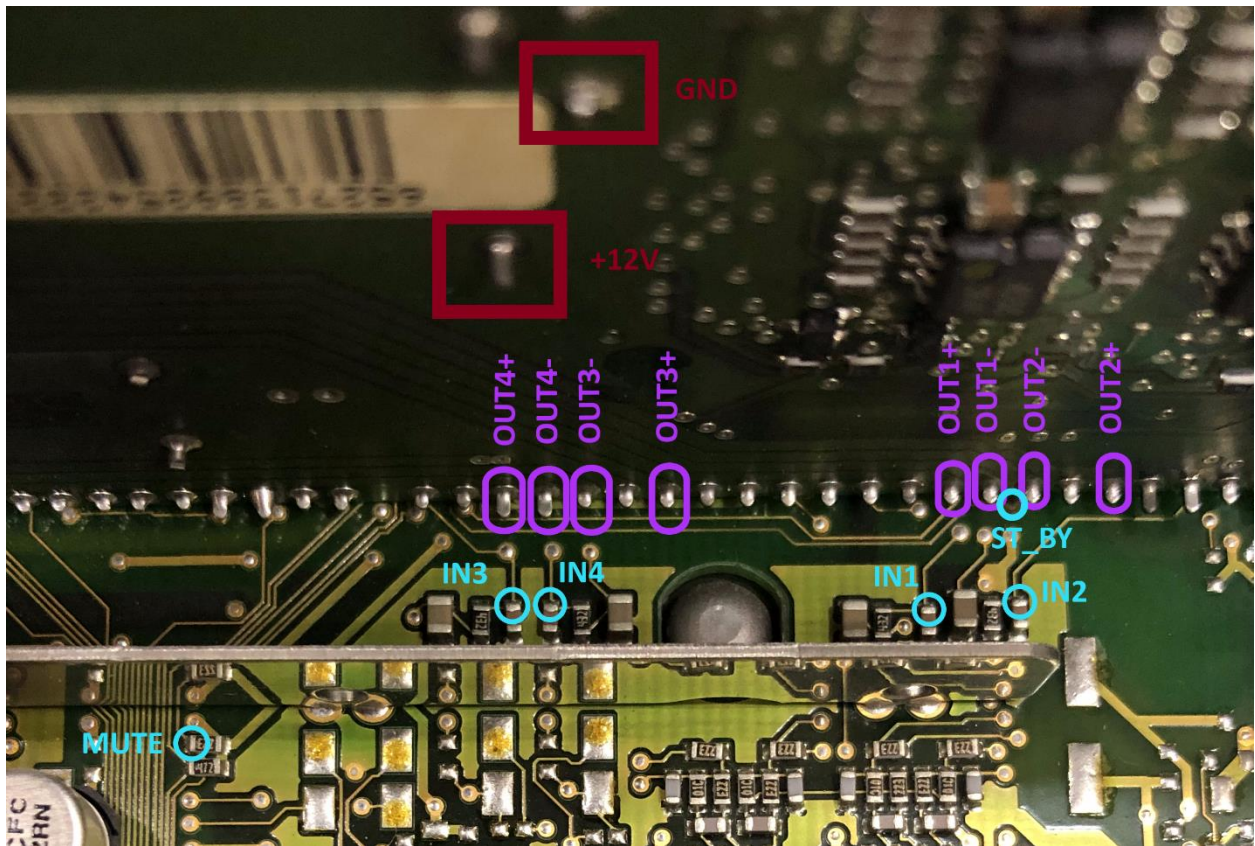
2. BM54 repair kit top view (this version of PCB does not have output polarity marking, so I marked it on this picture)

## BM54 repair kit instalation instructions:

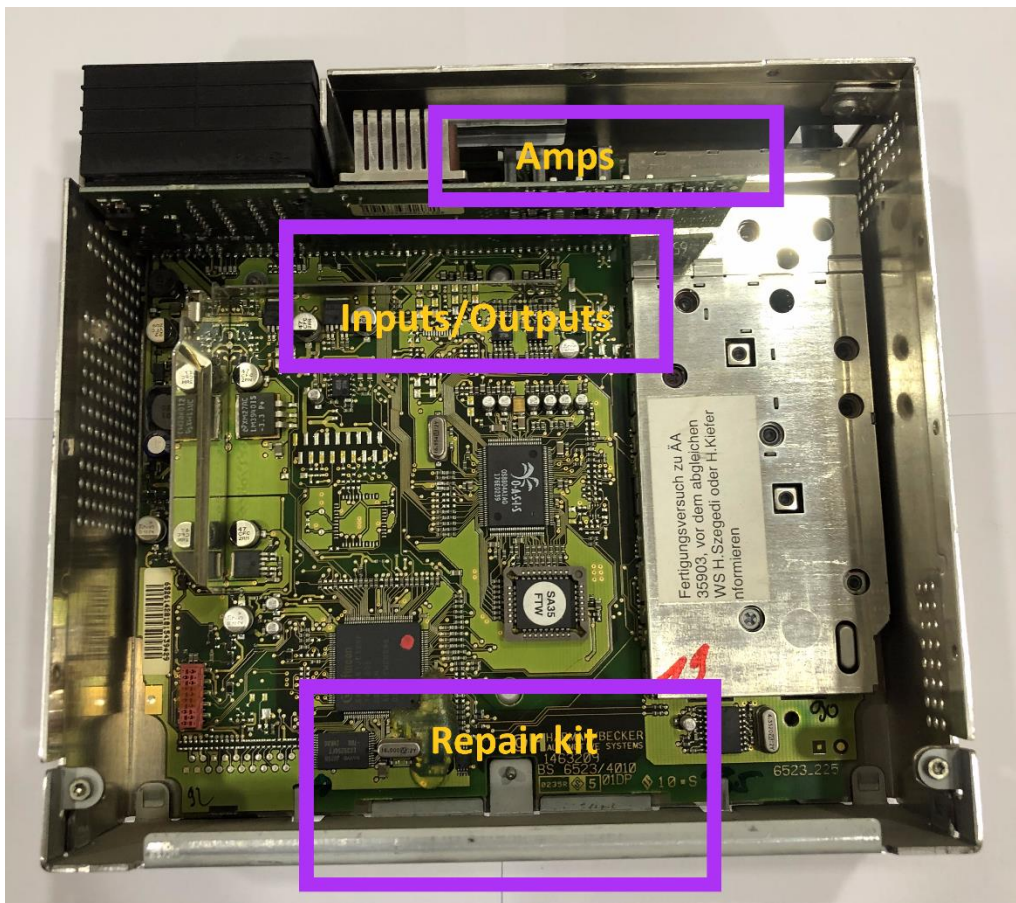
- Break 8 tracks in the original circuit board with a craft knife or dremel cutter (cut line marked in red on Picture 3);
- Solder 14 cables to original BMW amplifier board (Soldering points is marked on Picture 2). On Picture 1 you can see Hybrid amplifier pinout - if BM54 PCB is different as in Picture 4, use Picture 4 for reference.;
- Drill 2 new holes in the amplifier casing;
- I recommend to put thermal grease for heat protection and screw new amplifier to the inside of the case;
- Solder 16 cables to BM54 repair kit board;



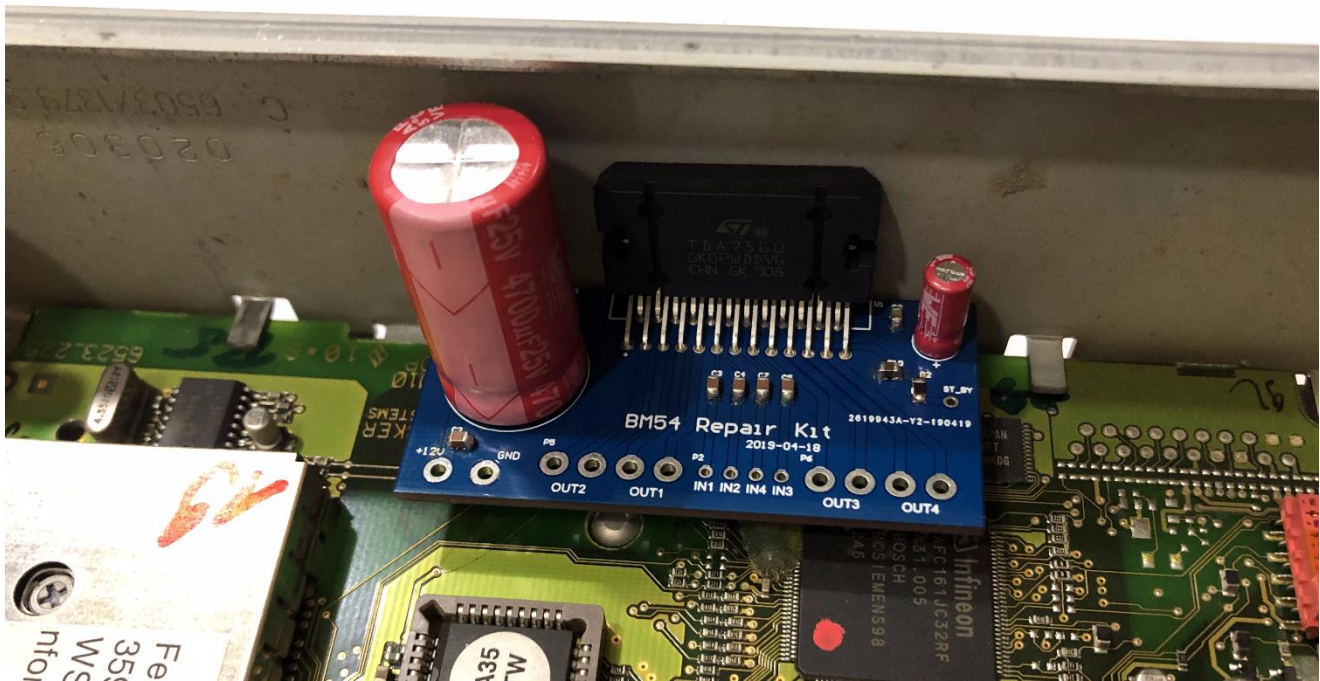
3. *Cut lines*



4. Soldering points



5. Original amps, soldering points and suggested repair kit location



6. Suggested repair kit location

## BM54 repair kit specifications:

Superior output power capability:

- 4 x 51W/4Ω max
- 4 x 30W/4Ω @ 14.4v, 1KHz, 10%
- 4 x 80W/2Ω max
- 4 x 55W/2Ω @ 14.4v, 1KHz, 10%
- MOSFET output power stage
- Excellent 2Ω driving capability
- Hi-Fi class distortion
- Low output noise
- Automute at min. supply voltage detection
- Protections: output short circuit to GND, to VS, across the load, reversed battery, ESD