

**Problem**

Through speakers is a humming sound clearly hearable  
 Transformer is humming at about same frequency as speakers

On Oscilloscope ==> sinus signal with period of 6,2ms ==> +-160Hz

	Possible cause	Action	Result
1	Oscilation?	Used local feedback arround VAS instead of resistive loading (430K from VAS output to input)	No change
2	Oscilation?	Changed FET drivers to 2SC4793/2A1837	No change
3	Oscilation?	Changed Vas Cdom from 33pF to 69pF	No change
4	Rectifier noise?	Removed snubbers (100N) from HFA25PB60 bridge	No change
5	Rectifier noise?	Changed HFA25PB60 bride to standard rectifier bridge (metal square)	No change
6	Power supply caps?	Changed BC components caps to unknown brand (For AUDIO/ Japan)	No change
7	Earthed Driver heatsinks better	At first it looked like it was solved, second trial (day after), the hum was back	No change
8	Soft start circuit?	Connected transformer directly to mains	No change
9	Earthing / grounding	Earthed main heatsinks	No change
10	Input filter	Changed MKT 10µ to MKP 1µ	No change
11	Input filter	Changed input resistance of 12K to 22K and 47K	No change

BUT amps sounds more transparant than with FET's

12 PCB layout??

