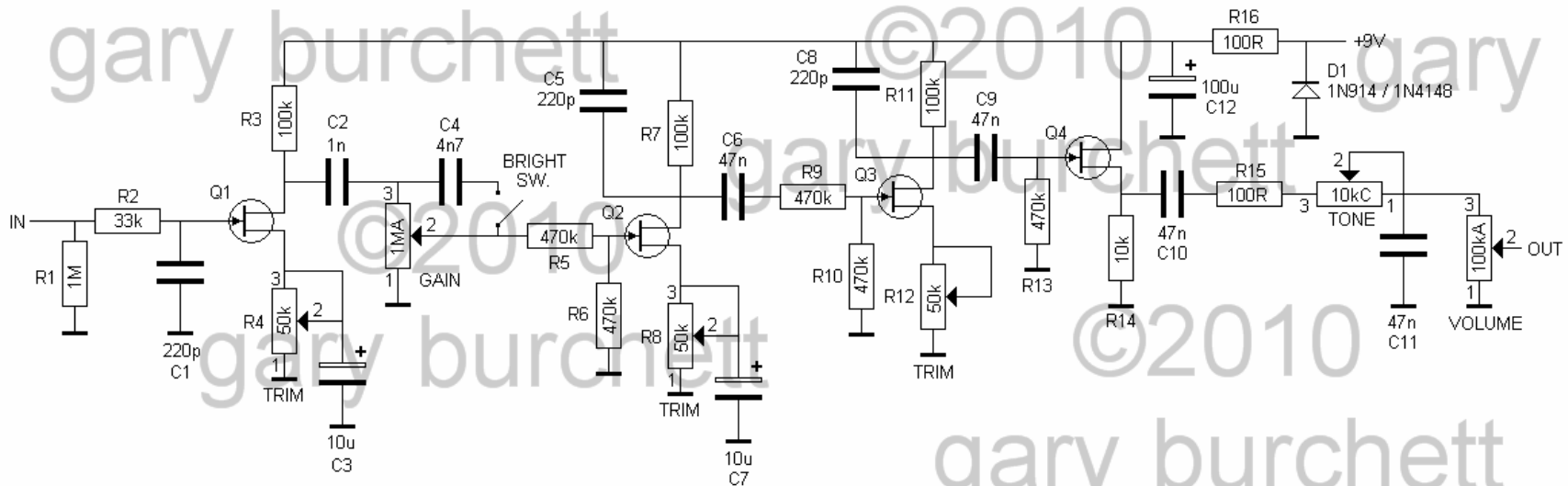


burchtone british distortion (BBD)

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v1.0
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NOTES:

- All JFets are J201. 2N5457 may be used for less maximum gain, but brighter top end.
- R4, R8 and R12 are trim pots. 50k is recommended, but depending on JFet variation, 25k, 50k or 100k may be used. Approximate setting for the average J201 is ~22k.
- If the sound is too dark for your amp/speakers, reduce or remove C5 and C8. Further brightness may be added by reducing the value of C11.
- If reduced top end gain is desired when Bright is engaged, add a resistor between C4 and Bright Switch. 100k is recommended but adjust value to taste.
- Ceramic caps are recommended for all pF values, box film caps for all nF values, and aluminum electrolytics for all uF values.
- Pedal Parts Plus recommended as source for build materials.
- An additional gain boost may be added by bypassing R12 with a 10uF cap as done on R4 and R8. Be aware C6 and possibly C9 may need reduced to approximately 1n to reduce mushy response. The gain boost may be made switchable. Add 100k between the gain boost cap and the source of Q3. To switch, simply short the 100k with the switch for more gain. Using this method will produce no pops when switched.
- Keep leads short, as there is chance for oscillation. Shielded wire is a good idea, but not required.
- Target sound is all controls ~12:00 and Bright engaged, but there are other good sounds with different settings.