

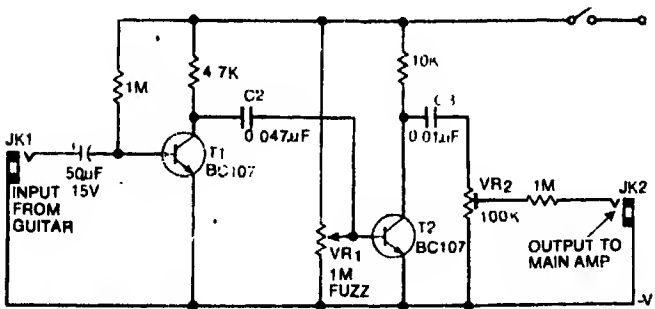
Fuzz Unit

The fuzz effect is a weird musical sound which is very much in use with the latest Pop groups. The fuzz boxes available in the market are quite expensive and may cost around Rs 300. The circuit given here is of a very economical fuzz unit, and should cost about Rs 50 only.

As seen from the diagram, the fuzz unit is a two-stage amplifier. The input from an electric guitar is fed to the base of T1 and then passed on to the base of T2 for further amplification. The second stage acts as an over-driven amplifier which clips and distorts the input audio signal. This produces the 'fuzz' effect.

The potentiometer VR1 is connected to exercise some control over the 'quality' of fuzz; VR1 varies the bias on the base of T2. The preset VR2 is incorporated to work as a variable attenuator so as to prevent overloading of the main amplifier. The main guitar amplifier could be permanently damaged if the output from the fuzz unit was too high.

A certain amount of treble boost is provided by the



Please note:

- 1 All the resistors are 1/4W, 10% rated
- 2 VR1 is 1 megohm lin. or log. pot with switch
- 3 VR2 is 100 kilohm skeleton pre-set
- 4 JK1, JK2 are input and output jacks
- 5 Screened wire should be used at the input and output jacks to avoid undesirable noise pick-up

capacitors C2 and C3, which is a desirable effect with the fuzz effect. If more treble is desired, the values of capacitors C2 and C3 may be reduced.

The fuzz unit is generally used with a lead guitar, but it can also be used with electronic organs, bass guitars, and even microphones.

A small 9V battery is recommended though any adequate power source may be used.

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