



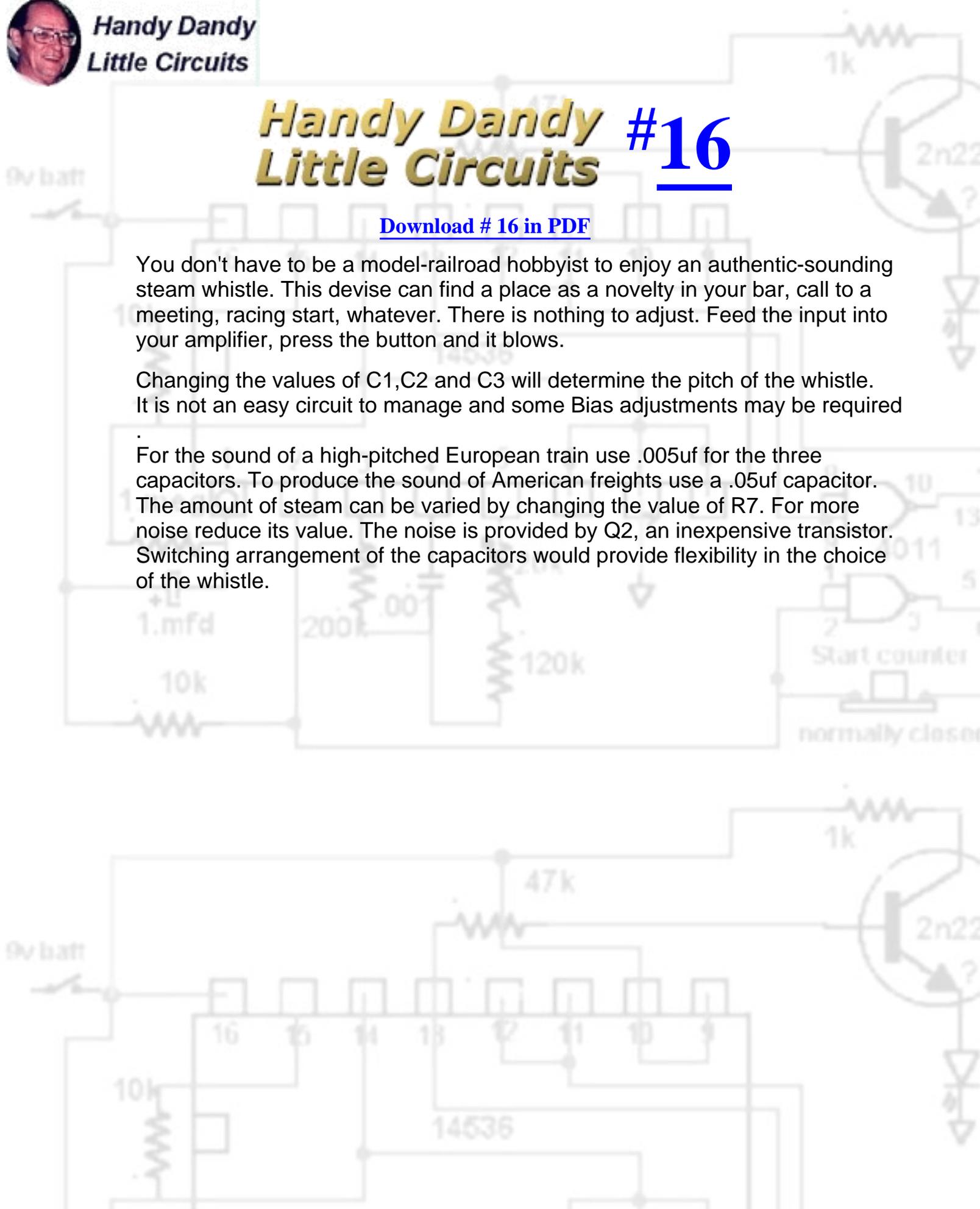
Handy Dandy Little Circuits #16

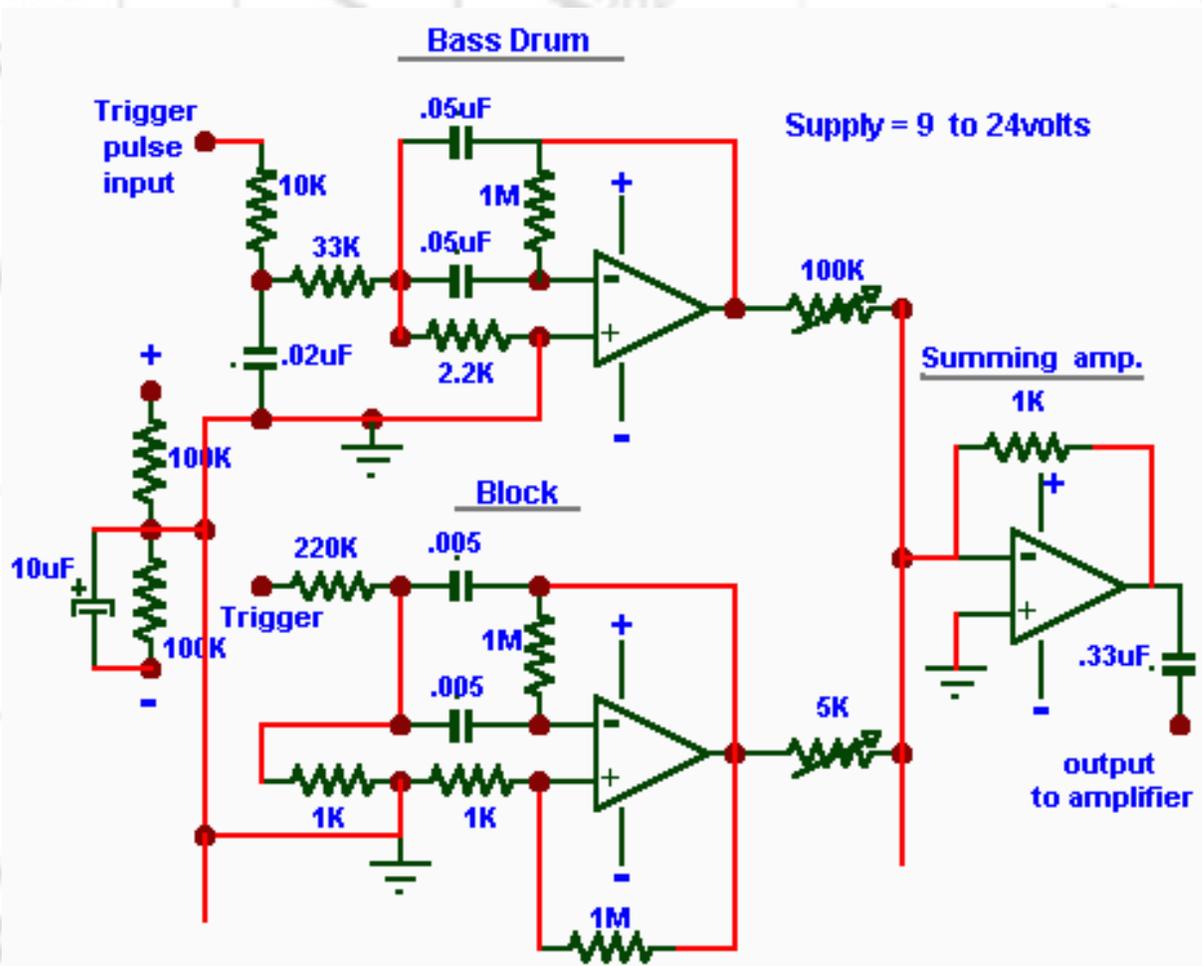
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You don't have to be a model-railroad hobbyist to enjoy an authentic-sounding steam whistle. This device can find a place as a novelty in your bar, call to a meeting, racing start, whatever. There is nothing to adjust. Feed the input into your amplifier, press the button and it blows.

Changing the values of C1,C2 and C3 will determine the pitch of the whistle. It is not an easy circuit to manage and some Bias adjustments may be required

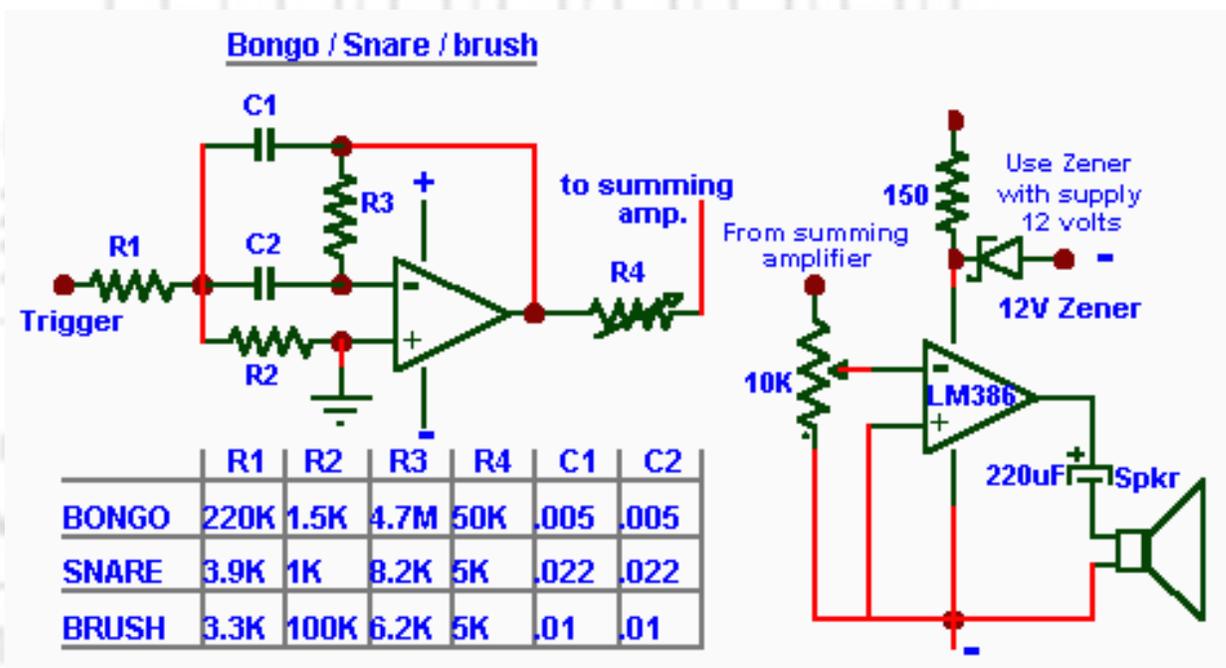
For the sound of a high-pitched European train use .005uf for the three capacitors. To produce the sound of American freights use a .05uf capacitor. The amount of steam can be varied by changing the value of R7. For more noise reduce its value. The noise is provided by Q2, an inexpensive transistor. Switching arrangement of the capacitors would provide flexibility in the choice of the whistle.





The output of each generator can be adjusted for loudness with the output variable resistor then mixed in the summing amplifier whose output is then connected through the .33uF capacitor to the main amplifier made of the LM386 .

Unlike the Drum and Block circuits , the Bongo , Snare and Brush can be assembled with one basic circuit where only the components values are changed to obtain the required sound . Incidentally , the capacitors values can be changed to experiment with different sounds as you may wish without affecting the circuits operation .



Each generator can be used as a single unit , if so , the output variable resistance as well as the summing amplifier are omitted but the .33uF is added to the output then connected directly to the amplifier volume control .

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Questions? Email me at roma60@home.com

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