Circuit Ideas

Stereo/mono switching

In designing the channel switching for a stereo amplifier, it is desirable to achieve all the required stereo/mono configurations using as little hardware as possible. The most useful configurations are off; mono to left speaker, right speaker, or both; and stereo, left channel only, right channel only, both channels, and reversed. To achieve these eight combinations it is not necessary to use eight pushbuttons; as $2^3 = 8$, it can be done with just three pushbuttons. A simple logical reduction of the switching requirements leads to the circuit shown, which requires three 3-way pushbuttons.

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In the t.t.l. monostable circuit by Mr Yelland (March 1973) the gates should have been shown as OR gates.

mono L	mono R	stereo
3	2	1

off

mono left

mono right

mono both

stereo

stereo (right only)

stereo (left only)

stereo reverse

mono mono stereo