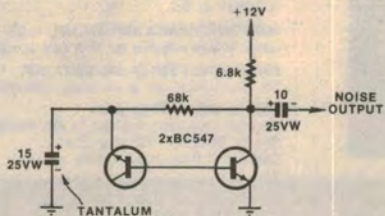


## An economical white noise source

This simple circuit provides a white noise source which is suitable for direct connection to the high level input of an audio amplifier. Some possible applications include using the white noise to blanket out background sounds or for checking the frequency response of tape decks or speakers.

Two BC547 NPN transistors are used in the circuit with one of the transistors connected as a current amplifier and the other as a noise-current source. This is achieved by reverse biasing the base-emitter junction so that the transistor operates as a zener diode. Q-point



stability is provided by the 68k "collector biasing" resistor and a 15uF decoupling capacitor.

(By Ron de Jong, "Electronics Australia".)