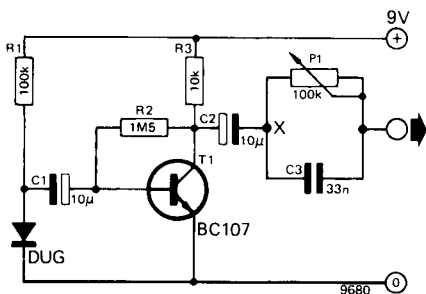


6 rain synthesizer 7 a steady hand

6 This simple circuit has proved very reliable and effective as a background sound effect generator for use by organists etc. Other simple devices of this type often use several stages of amplification or make use of special noise diodes which are comparatively expensive. The advantage of this design is that it employs an ordinary OA 91 or similar diode. The



internal noise produced by the diode is amplified by the single stage pre-amplifier, consisting of T1 and its associated components, which is designed for high gain and low cost. T1 can be almost any silicon NPN transistor, a BC107 being used in the prototype.

The output at X may be taken straight to an amplifier if only a white noise output is required. However, the addition of the passive filter, comprising C3 and P1 enables a variety of effects ranging from light rain to a heavy storm to be obtained.