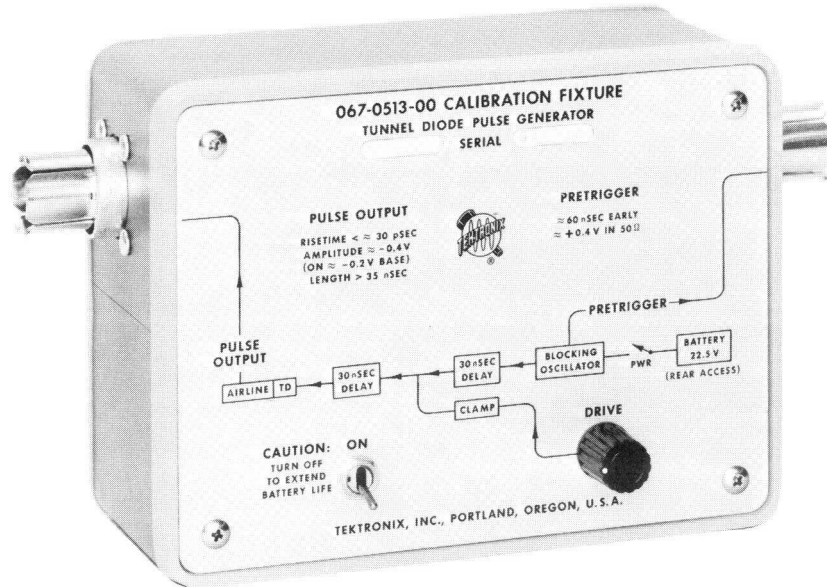


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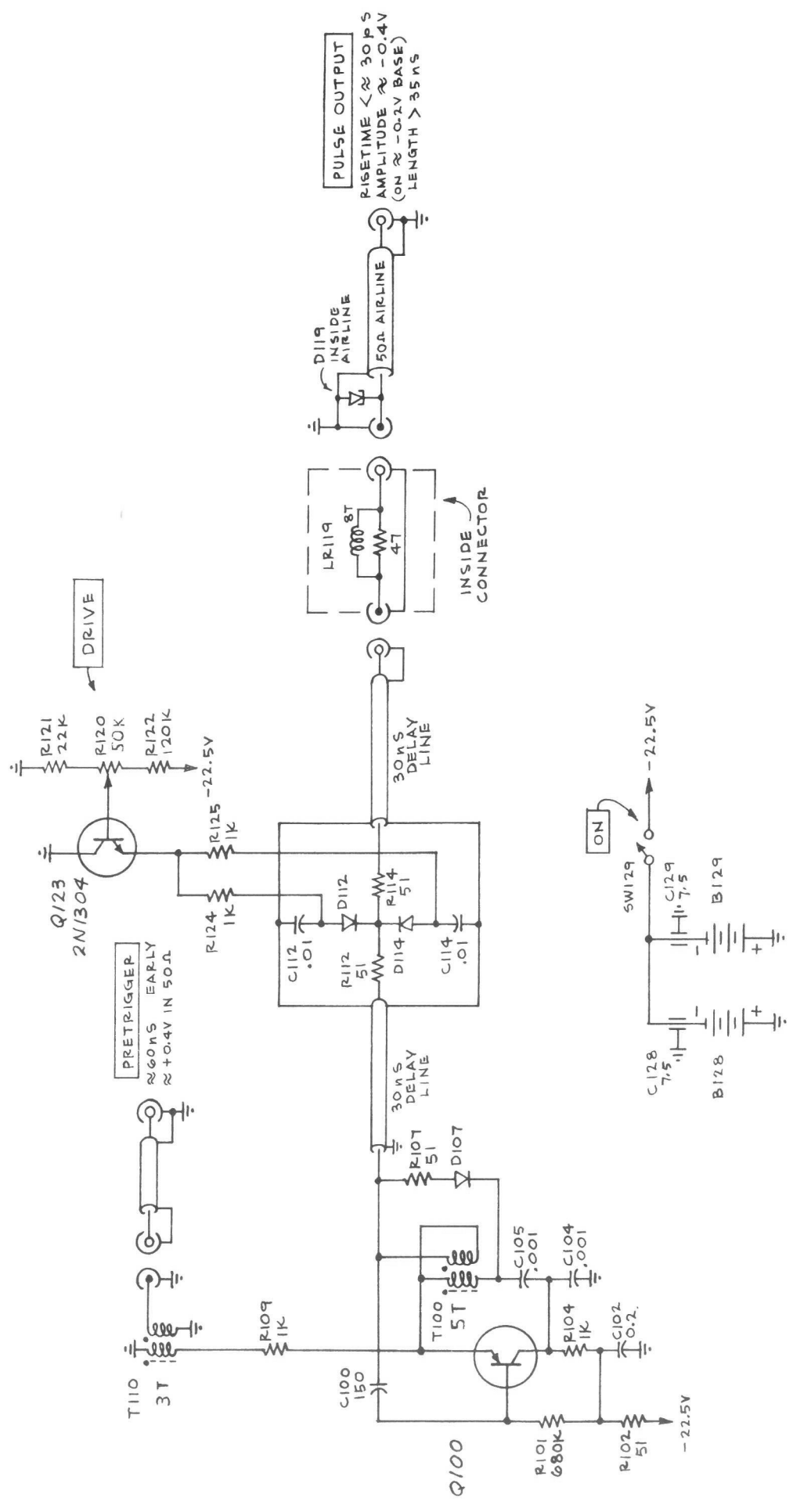
Tunnel Diode Pulse Generator



The T.D. Pulse Generator is battery powered and is used for checking step function response of all Tektronix sampling systems. It can be used with a minimum of correction due to pulse source risetime limitations.

The repetition rate varies from about 50 kHz to 150 kHz depending on battery condition. A pretrigger (60 to 70 ns early) permits operation in conjunction with any of the Tektronix sampling systems.

The pulser contains a transistor blocking oscillator, an adjustable diode drive clamp, a delay cable and a 100 mA, 6 pF, tunnel diode mounted in a special coaxial air-line environment. The free-running blocking oscillator generates a 50 ns pulse with adequate amplitude to drive the clamp, tunnel diode and pretrigger. The diode clamp, 30 ns from the blocking oscillator, flattens the negative-going pulse at a level just sufficient to switch the 100 mA tunnel diode which is another 30 ns past the clamp. This device draws about 1.5 mA. It is difficult to predict battery life but approx. 1 month can be expected with average use. New batteries may be ordered on a standard order form.



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