



By Charles Kitchin, N1TEV

# A Simple Regen Radio for Beginners

Need a simple, fun project—possibly for a Scout Radio Merit Badge? This project is a great way to introduce kids of any age to electronics and shortwave listening.

**H**ere's a low cost, simple-to-build, portable shortwave receiver. Its design is noncritical and the receiver is easy to get going. With it, you can receive dozens of international shortwave broadcast stations at night—even indoors—using a 39-inch whip antenna. This little radio is perfect for discovering ham-band QSOs, news, music and all the other things the shortwave bands have to offer.

Although this little receiver is quite sensitive, it naturally won't match the performance of a commercial HF rig, and if you've not used a regen before, you'll have to practice tuning the radio—but that's part of the adventure. Most of today's experienced "homebrewers" got their start by building simple, fun circuits just like this one. You'll gain experience in winding a coil and following a schematic. As your interest in radio communication develops, you can build a more complex receiver later.

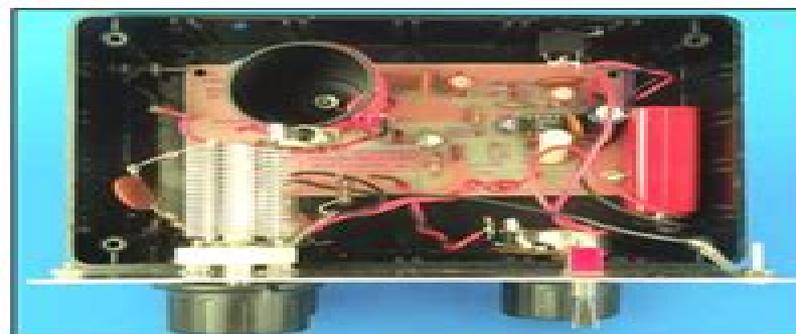
The little receiver requires only a single hand-wound coil and consumes just 5 mA from a 9-V battery. At that rate, an alkaline battery can provide approximately 40 hours of operation. The sound quality of this receiver is excellent when using Walkman headphones. The radio can also drive a small speaker. To simplify construction, a low-cost PC board is available from FAR circuits.<sup>1</sup> You can house the receiver in a readily available RadioShack plastic project box.

## Circuit Description

Take a look at the schematic in Figure 1. L1 and C1 tune the input signal from the whip antenna. Regenerative RF amplifier Q1 operates as a grounded-base Hartley oscillator. Its positive feedback provides a signal amplification of around 100,000. The combination of the very low operating power of this stage, only 30  $\mu$ W, with the use of a simple whip antenna makes this receiver easily portable and prevents it from interfering with other receivers located nearby. Regenerative receivers are, after all, oscillators. R2 controls the amount of positive feedback (regeneration).

D1 and C4 comprise a floating detector that provides high sensitivity with little loading of Q1. The relatively low back-resistance of the 1N34 germanium diode (don't use a silicon diode

<sup>1</sup>Notes appear on page 64.



In this version of the receiver, a prototype PC board is used; it is not directly representative of the currently produced board, although they are similar. In this view of the receiver, the antenna has been removed. The TUNING capacitor is at the left. Immediately behind the capacitor is the coil, L1. Attached between the TUNING capacitor and the VOLUME control pot immediately beneath you can see D1, C4 and R4 as discussed in the text.

here!) provides the necessary dc return path for the detector.

VOLUME control R5 sets the level of detected audio driving U1, an LM386 audio amplifier. C5 provides low-pass filtering that keeps RF out of the audio amplifier. R4 isolates the low-pass filter from the detector circuit when the volume control is at the top of its range. The bottom of the VOLUME control, R5, and pin 3 of the LM386 float above ground so that both inputs of the IC are ac coupled. This allows the use of a 100-k $\Omega$  VOLUME control; this high resistance value prevents excessive loading of the detector. D5 protects the receiver from an incorrectly connected battery.

L1 is wound on a standard 35-mm plastic film can or a 1-inch-diameter pill bottle. C1 can be any air-dielectric variable capacitor with a maximum capacitance of 100 to 365 pF. Total frequency coverage varies with the capacitance value used, but any capacitor in that range should cover the 40-meter ham band and several international broadcast bands. If you use a capacitor with a large capacitance range (such as 10 to 365 pF), you'll find that selectivity



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