

## High Performance Regenerative Receiver Design

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### High Performance Regenerative Receiver Design

A High-Performance Shortwave Receiver Fig 7 shows a highly sensitive and selective shortwave receiver that is easy (and fun) to operate. As with the previous circuit, this design uses a bipolar RF stage, a J FET detector and an IC audio stage. The overall perfor- mance of this circuit equals that of many superhet designs, yet it has very

### High Performance Regenerative Receiver

The design is based on the following 6 principles: - Use of a low L/C ratio (high tuning capacity, at least 470 pF). Thisimproves the frequency stability and decreases the synchronizationphenomenon and the hand effect. - Use of an adjustable RF attenuator at the receiver input.

### VERY HIGH PERFORMANCE REGENERATIVE RECEIVER

N1TEV Charles Kitchin: High performance regenerative receiver design. AASTB Steve Yates: High-performance JFET regen, tickler coil with capacative regeneration control, filtered audio. Rolf Heine DL6ZB: one-JFET Hartley regen, paired with a one-transistor crystal QRP TX.

### Regenerative receiver projects - robos.org

Regen Receiver. This regenerative detector receiver is based on Charles Kitchin's High Performance Regen Receiver. The circuit (see schematic) was modified to use a LM386 as the audio output. The cabinet/chassis is 1 inch pine. The front panel is aluminum. The top and sides are made of 1/8 inch masonite.

### Projects of WSJH

High Performance Regenerative Receiver Design, itor regeneration control are unknown The regenerative circuit was used in ... Regeneration introduces a negative superheterodyne receiver circuits. control of ... Learn More. Regenerative Receiver for Beginners. The heart of this circuit is JFET Q3, isolates the detector from the antenna, pre-

### Regenerative Receiver for Beginners - ARRL

The basic paradigm of this design is to break up the traditional oscillating detector into a separated regenerative amplifier and detector circuit. The detector is a "plate detector", where RF is fed back to the Amplifier via a partially RF decoupled source(normally bypassed all the way for RF when used as a detector).

### A High Performance Regenerative Radio | Circuit Salad

Ray Ring's High Performance Regenerative Radio - October 2016 Tuning Devices compared. From left to right, an air variable capacitor, a polyvaricon, and a varactor. What attracted me to this circuit were the words "high performance" (although as I've discovered, a large percentage of designs promote themselves this way, but in my experience "high performance" may not fully apply ...

### Fun with Regenerative Receivers | Intellectual Curiosity

Based on the sound recording Mike provides, his receiver has plenty of gain and exhibits all the benefits of a crystal-controlled regen. Its tuning range is limited, however, and Mike used an obsolete transistor, so I was unable to duplicate it. ... 4 Kitchin, "High Performance Regenerative Receiver Design," QEX, November/December 1998, p. 24 ...

### KR15 VXO Regenerative Receiver, Page 2

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### A High Performance Regenerative Radio | Circuit Salad

The WBR - A Simple High Performance Regen Receiver for 40M by N1BYT EDIT (July 26th 2014) - If you're thinking of building the WBR, I strongly suggest you check out my most recent build here, which incorporates a mod suggested by IA3PNA, and a different configuration for the AF amp that I think provides nicer sounding audio.

### The WBR - A Simple High Performance Regen Receiver for 40M ...

HIGH PERFORMANCE REGENERATIVE RECEIVER by RAYMOND HAIGH "regeneration", the technique produces a truly dramatic increase in receiver sensitivity and selectivity. Armstrong filed his patent in October 1913, just two months before his 23rd birthday.

### www.epemag

Figure 5 The LM386 can be used to create a shortwave regenerative receiver. The receiver's performance is surprisingly good, with excellent sensitivity and selectivity that is comparable to the best commercial handheld shortwave receivers using their built in whip antennas.

### EDN - Create radio receiver circuits with the LM386 audio ...

A regenerative receiver, by contrast, could often provide adequate reception with the use of only one tube. In the 1930s the regenerative receiver was replaced by the superheterodyne circuit in commercial receivers due to the superheterodyne's superior performance and the falling cost of tubes.

### Regenerative circuit - Wikipedia

High Performance Regenerative Receiver Design There have been several popular Regen projects in recent QSTs and ARRL Handbooks Look at the design process and progress; then build one—or both—of the receivers described. By Charles Kitchin, N1TEV M any hams have tried regen~ erative receivers with mixed results.

### Full text of "High Performance Regenerative Receiver ARRL"

The fixed, high selectivity of most superhet receivers prevents them from effectively demodulating FM signals by slope detection. In use, a regenerative circuit performs quite differently depending on whether it is operated above or below the oscillation threshold. When receiv-Positive. Fig 1—Armstrong's original regenerative circuit.

### Old Regenerative - Radio Electronics 1998-11 - Amateur ...

The regen design has the mixing, selectivity and amplification all built into the same stage, offering better possible performance ... the gain and selectivity are multiplied 1000-fold during the mixing process! (Although the gain and selectivity can drop dramatically in the presence of high RF input signals.)

### CWTD Sept 18, 2012

This web page describes a small, single tuned circuit regenerative receiver primarily for daylight reception in the 16, 19, 22 and 25 meter international shortwave broadcast bands. A good regenerative receiver A good SSB-CW-AM regenerative receiver with a fine tuning by moving the wooden stick with a grounded piece of PCB towards the coil.

### Regenerative Receiver : Regenerative Receiver - The DXZone

The receiver I built was the "Pipsqueak." This little gem is based on an earlier regen design by Charles Kitchen with an improved audio section designed by Paul Harden. This little receiver is almost as simple as they get. After a few hours of melting solder, I actually had a working receiver.