

ARMSTRONG OSCILLATOR

Tuned base oscillator is another type of transistor based LC oscillator where the tuned circuit (tank circuit) is placed between the base and ground of the transistor. The tuned base oscillator is also called "Armstrong oscillator" after the name of its inventor.

The tuned circuit essentially consists of a transformer and capacitor connected in parallel. The Armstrong oscillator is an electronic oscillator circuit which uses an inductor and capacitor to generate an oscillation. It is sometimes called a tickler oscillator because its distinguishing feature is that the feedback signal needed to produce oscillations is magnetically coupled into the tank inductor in the input circuit by a "tickler coil" in the output circuit.

LC oscillators are often used at radio frequencies, when a tunable frequency source is necessary, such as in signal generators, tunable radio transmitters and the local oscillators in radio receivers.



