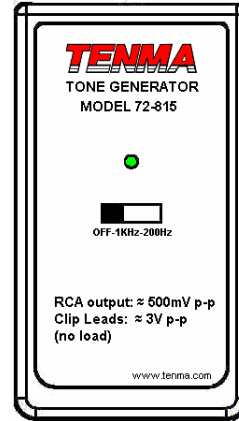




# Compact Test Tone Generator

Model 72-815



## Overview

The Tenma **Model 72-815 Tone Generator** is designed to provide fast convenient verification of proper sound system connections. This simple, easy to use device provides an audible tone that may be heard when connected directly to a speaker, or to the input of an amplifier, preamplifier or mixing console.

Ideal uses include tracing speaker wiring in residential and commercial distributed audio systems and autosound installations, testing audio amplifier and mixer inputs, and verifying proper operation of in-line volume controls and attenuators.

RCA connector output level is approximately 500mV (no load), which is close to that of most line level devices. This output level should only be used with line level inputs, and not with mic or phono inputs. Clip lead output is approximately 3V (no load) and is designed to directly drive a 4ohm or higher speaker. The output level also sufficient to drive speakers with attached 70V transformers tapped at 1W or higher.

Two tone frequencies are provided to aid testing a wide variety of speaker types and improve audibility in varying test environments. The output frequency will not be exactly 1KHz or 200Hz, as it is somewhat dependant upon load impedance. The audibility of each tone will depend on the speaker type. For example, when testing a small midrange, tweeter or even a very small full range driver, the 200hz tone may be nearly or completely inaudible. Conversely, a speaker such as a large automotive subwoofer, may not be able to reproduce a 1KHz tone to an audible level.

## Operation

- Verify that a fresh 9V battery is installed in the unit and the slide switch is in the **OFF** position

### Testing Speakers

- Prior to connection, be certain that the speaker/speakers to be tested are not connected to any amplifier output
- Verify that slide switch on the Tone Generator is in the **OFF** position
- Connect the red and black spring clip leads to the speaker input connection (polarity is not critical)
- Slide the switch to the **1KHz** position, a high pitch tone should be heard through the speaker
- Slide the switch to the **200Hz** position, a lower frequency tone should be heard through the speaker
- When testing speakers with 70V transformers, it may be difficult to hear a test tone on taps lower than 1W. If the speaker has multiple taps, the volume level of the test tone should increase with the higher wattage of each tap
- When testing is completed, slide the switch to the **OFF** position, then disconnect the clip leads

### Testing Line Level Inputs

- Prior to connection, be certain that the amplifier power is off, and the Tone Generator switch is in the **OFF** position
- Make sure the amplifier or mixing console gain is set to the minimum level
- Connect the Red/White RCA female outputs to the amplifier or mixing console line level input  
(Note that these two connections are internally tied together and may be used independently or together)
- Slide the switch on the Tone Generator to the **1KHz** position and turn on the amplifier power
- Slowly increase the amplifier or mixer gain until the tone is heard through the speakers
- If desired, the amplifier system may be tested at either **1KHz** or **200Hz**
- Once testing has been completed, turn the amplifier power off, and set mixer/amplifier gain to minimum
- Slide the switch on the Tone Generator to the **OFF** position and disconnect from the input

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