

# CRYSTAL RADIO BASIC SET

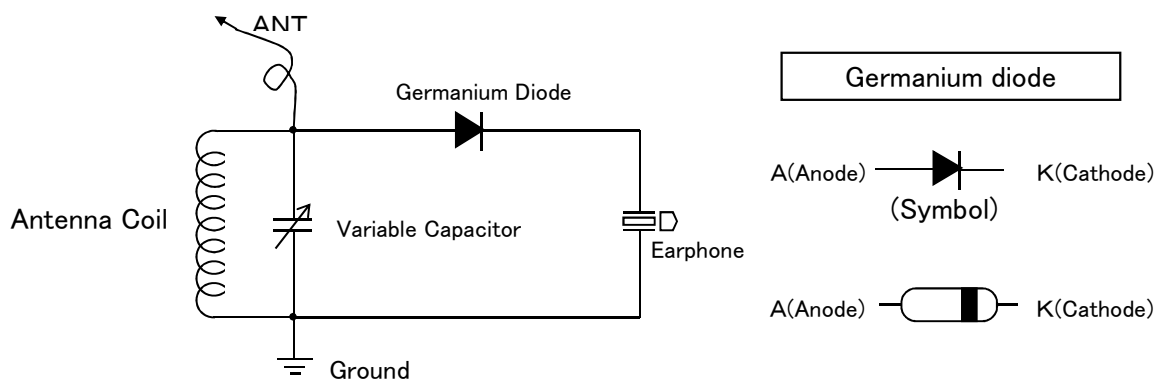
A set of four basic parts for Crystal Radio.

A receiving sensitivity depends on the antenna input. Challenge receiving sensitivity improvements by designing an antenna coil.

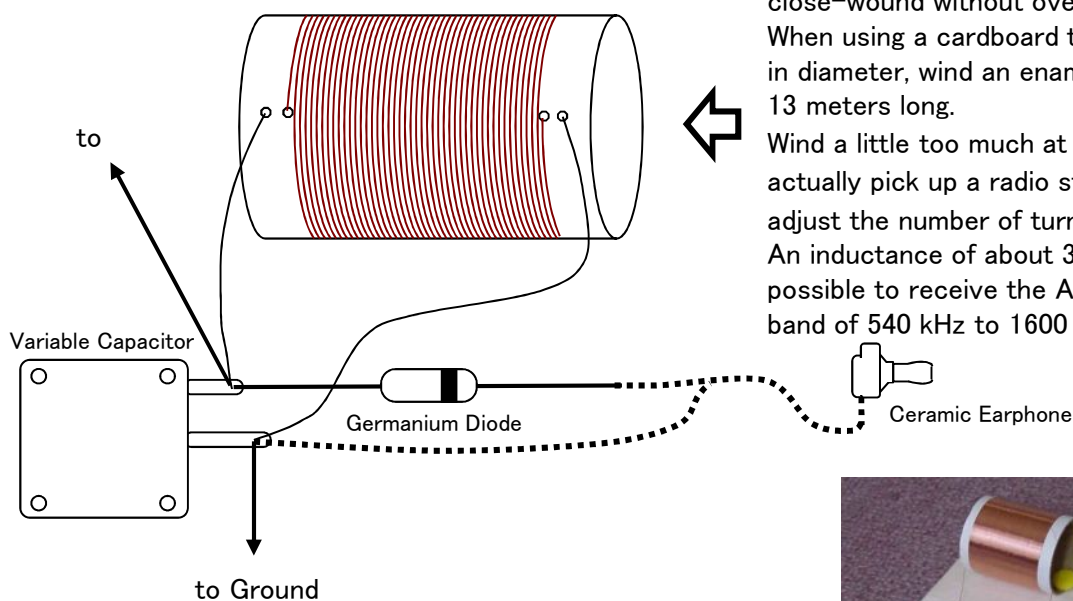
<< List of Parts >> Confirm Parts first !

Part Name	Quantity	Remarks
1N60	1	Germanium Diode
Variable Capacitor	1	Tuning Capacitor with Dial
Ceramic Earphone	1	Performance same as a Crystal Earphone
Copper Wire(0.29mm)	1	Polyurethane Enameled Copper Wire (15m in length)

<< Schematic of a Crystal radio >>



<< Circuit Diagram >>



Antenna Coil is formed by winding an enameled wire around a cardboard tube. Wind the wire tightly around the cardboard tube. Make sure the wire is close-wound without overlapping. When using a cardboard tube 4 cm or so in diameter, wind an enameled wire 12 to 13 meters long.

Wind a little too much at first and actually pick up a radio station and adjust the number of turns. An inductance of about  $330 \mu\text{H}$  makes it possible to receive the AM broadcast band of 540 kHz to 1600 kHz.



Assembling Crystal Radio on Wood