

## MAGNETO WIRING ARRANGEMENT FOR CONNECTION TO PSTN

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One of the joys of having a modified magneto telephone functionally connected to the Public Switched Telephone Network (PSTN) is the ability to demonstrate ringing by cranking the magneto. However, as Bruce Crawford pointed out ( "READ THIS!", ATCA Newsletter, January, 1995), today's modern digital CO does not expect to see 50 to 80 volts ac generated across the tip and ring (line circuit). It is essential to keep the magneto isolated from the line circuit at all times. This may be accomplished very easily in magneto sets equipped with a pushbutton.

Many magneto sets have a pushbutton that was originally used to permit ringing the operator without disturbing other parties on the same line. Typical pushbuttons contain a 5 spring (contact) assembly, three of which are arranged in a Single Pole Double Throw (SPDT) setup. These three contacts may be used to switch the ringer circuit from the line circuit to the magneto circuit and at the same time, keep the magneto isolated from the line. The wiring diagram for this arrangement is shown below.

To demonstrate ringing using the magneto, simply depress the pushbutton and keep it depressed while cranking the magneto.

