

Northern Electric

SETS, TELEPHONE

No. 301A Portable Telephone Set

The No. 301A Telephone Set is a portable instrument well suited to any application where a portable magneto telephone of rugged construction is required.



No. 301A Telephone Set

The set consists of a Hand Set and an aluminum chassis on which are mounted a hand generator, an induction coil, a condenser, two battery containers and a ringer mounting bracket. The assembled chassis is mounted in a black fibre, wood lined carrying case equipped with a shoulder strap. The Hand Set includes the modern high efficiency F1 Transmitter Unit and HA1 Receiver Unit. A push-button switch in the Hand Set handle is used to set up the talking condition.

As all field conditions do not warrant the use of a ringer, it has not been made a part of the standard set and if required, should be specified on the order.

The impedance of the set in the listening position at 1000 cycles is 3300 ohms at an angle of 60 degrees affording a low bridging loss and permitting a number of sets to be operated on a line at the same time. High transmission efficiency and greater intelligibility is obtained by the use of the improved transmitter and receiver units.

Protection against high line voltage and accidental grounds is assured by the connection of the receiver and the transmitter to the drop side of the induction coil, by

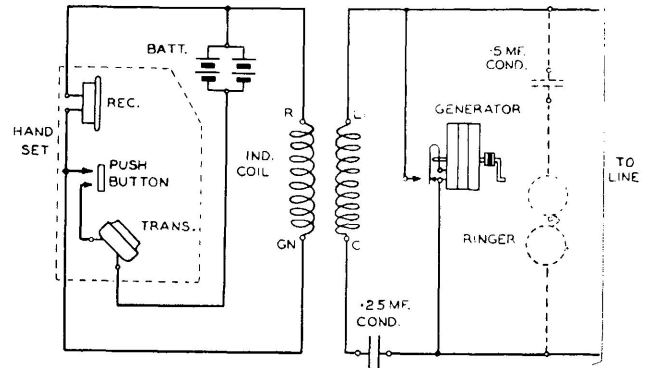


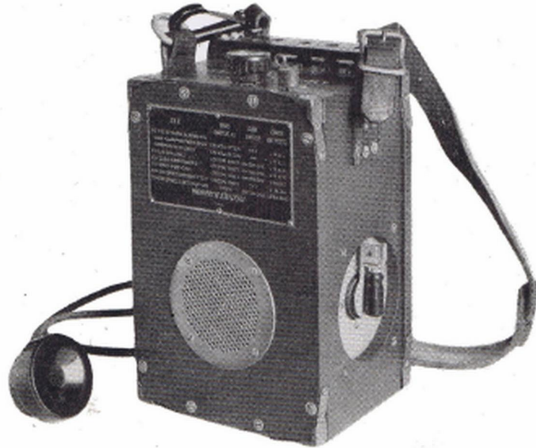
Diagram of Connections No. 301A Telephone Set

insulating the handle of the generator, and also by the use of an insulated type Hand Set.

Four No. 950, 1.5 volt flashlight dry cells are required for operation. The low battery drain of the new type transmitter unit insures a long battery life. The dry cells must be ordered separately.

The 301A Telephone Set is 11¼" x 10¼" x 5⅝" in size and weighs approximately 15 lbs.

No. 1017E Lineman's Test Set



No. 1017E Test Set

The No. 1017E Test Set is a portable set designed for the general use of linemen in the construction, maintenance and repair of telephone lines. Its use is extended beyond ordinary telephone circuits due to the addition of facilities to provide 135 cycle ringing current, which is required for composited lines.

All exposed parts are thoroughly insulated to reduce the possibility of electric shock and the receiver circuit includes a varistor to minimize acoustic shock.

This test set has been designed and built to withstand the rough treatment to which such instruments are ordinarily subjected in field service and at the same time its weight has been kept to a minimum. To facilitate carrying, the set is provided with a wide, adjustable shoulder strap, which will not chafe even when worn for lengthy periods.

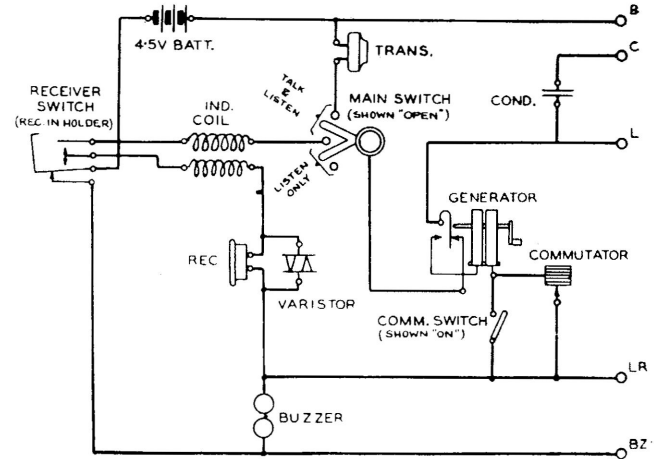


Diagram of Connections No. 1017E Test Set

All controls and binding screws are mounted on top of the case and are clearly designated so that changes in connections to the required position may be made with the greatest ease. Binding posts are provided with an insulating cover. The Main switch is used most frequently and is therefore equipped with an insulated knob of such a design and size that it may be turned conveniently, even under difficult conditions. The small knurled brass switch knob, known as the Commutator switch, is moved to the "On" position when 135 cycle ringing current is required.

Suitable cords are available for connecting the test set to the line, one end of each conductor being equipped with a spade tip for connection to the binding posts of the test set, while on the other end of each conductor, a spring clip is provided, suitable for making connections to either wires or terminals of almost any type.