

TELEPHONE SET, KS-19148, LIST 1  
MINE STATION, NONEXPLOSIVE ATMOSPHERE  
MAGNETO

1.00 INTRODUCTION

1.01 This section identifies and gives connection, installation, and maintenance information on the KS-19148, List 1 telephone set.

1.02 This telephone set replaces the 1436E telephone set which will be rated Manufacture Discontinued.

2.00 IDENTIFICATION

2.01 The KS-19148, List 1 telephone set (Fig. 1 and 2) is a magneto wall-type set for use in mine stations below ground and exposed stations above ground where there is no danger of explosive gases.

2.02 The telephone set has a black finish and consists of a case, outer door, inner door, gong hood, and terminal box. All of these parts are of heavy cast iron. The over-all dimensions are approximately 16-3/4 inches high, 13-3/4 inches wide, and 12-1/4 inches deep. The set weighs approximately 68 pounds.

2.03 It is intended for individual lines, PBX extension, 2-party selective flat-rate, 4-party semiselective, divided code ringing, and nonselective party lines.

2.04 This is a local battery set. It requires two KS-14367 dry cells which are installed in-

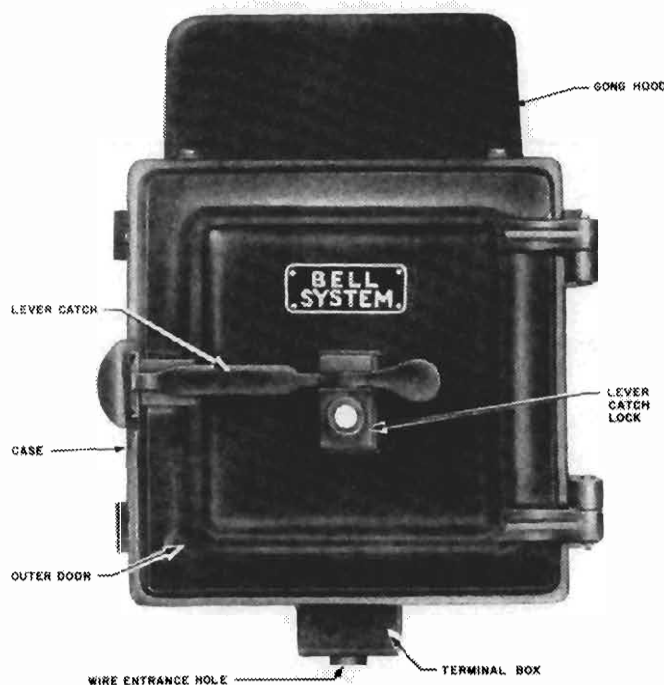


Fig. 1 - KS-19148, List 1 Telephone Set

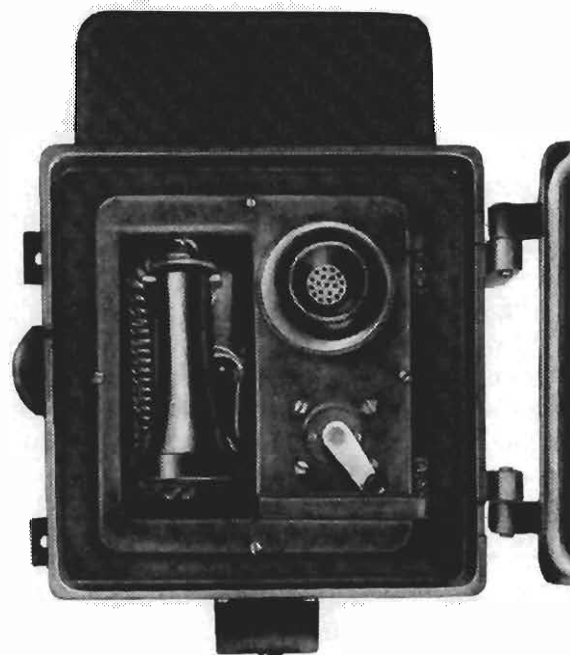


Fig. 2 - KS-19148, List 1 Telephone Set, Door Open

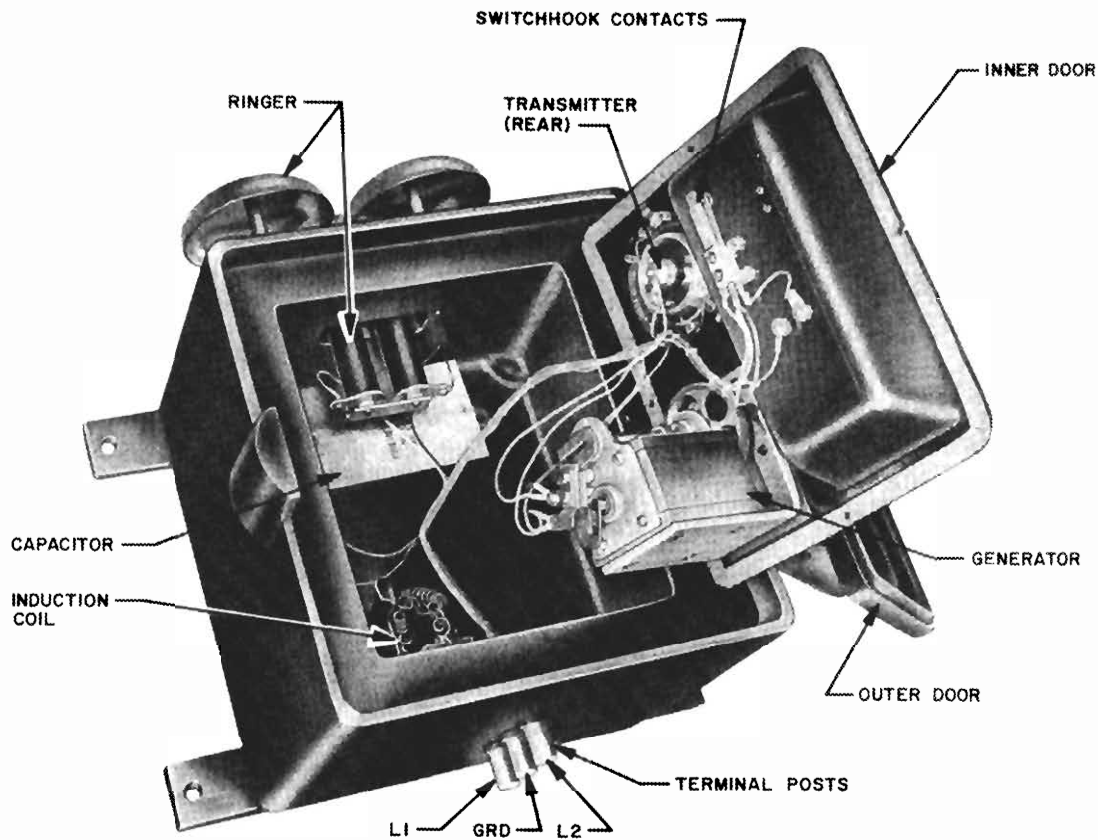


Fig. 3 — KS-19148, List 1 Telephone Set, Component Parts

side the case. The dry cells must be ordered separately.

**2.05** The ringer coils (Fig. 3) are mounted inside the case and are magnetically coupled to the gong clapper on the outside of the case. The gong hood covers both the clapper and gongs. It mounts on the case with four screws.

**2.06** The terminal box mounts on the bottom of the case with four screws. It covers two line terminals and a ground terminal which pass through watertight bushings to the interior of the case. The wire entrance hole in the terminal box is threaded for 1/2-inch conduit. A 2-1/2-inch length of 1/2-inch conduit is furnished with the set. The conduit is threaded at both ends.

**2.07** The set is equipped with a mounting bracket for wall mounting. Four mounting holes are provided whose centers are 8-3/4 inches high by 12-3/4 inches wide. Four 3-inch lag screws are furnished for mounting the set (see Table A).

**2.08** The outer door protects the signaling and transmission apparatus. The door, when closed, seals the set by means of a rubber gasket and a compression lever catch. The lever catch is released by depressing the button on the lever catch lock and pulling lever out.

**2.09** The receiver, transmitter, switchhook, and generator mount on the inner door. It is hinged for access to the interior of the case. The door is held closed with four machine screws.

### 3.00 INSTALLATION AND CONNECTIONS

**3.01** A location should be selected that meets the approval of the customer.

**3.02** The set shall be installed where the outer door may be opened without interference from obstructions.

**3.03** The weight of this set requires that it be mounted on a sturdy wall. A backboard should be used if the wall will not support the set. The backboard shall be obtained locally. See Table A for fasteners to mount the set.

**TABLE A  
FASTENERS**

Wall	No. Req	Fastener
Wood	4	3-inch lag screws (furnished with set)
Masonry	4	3/8- by 2-inch hexagonal machine bolt with 3/8- by 2-inch expansion shield.
Hollow Tile	4	1/4- by 4-inch toggle bolts

**3.04** D block wiring or equivalent should be used.

**3.05** Use piece of conduit furnished with set if block wire is not run in conduit. Screw conduit into the wire entrance hole of the terminal box.

**3.06** Run wire through conduit into the terminal box. Connect leads on terminal posts (Fig. 4). The front post is L2, the middle post is GRD, and the back post is L1.

**3.07** The ringer is connected for bridged ringing.

The ringer leads are soldered to spade tips which are connected to the L1 and L2 terminal posts (Fig. 4) in the interior of the set. To connect the ringer for tip or ring parties, it will be necessary to unsolder the proper lead and solder it to the spade tip on the GRD terminal.

**3.08** Insert KS-14367 dry cells in the set. Connect them in series to the internal set wiring with the two block leads provided.

#### **4.00 MAINTENANCE**

**4.01** Follow normal maintenance procedures for magneto sets. See section on magneto maintenance.

**4.02** Replacement parts may be obtained using the following piece part information:

Capacitor, 202884-675  
Coil, Induction, 8636  
Cord Receiver, 200305-509  
Dry Cells, KS-14367  
Generator, 201678  
Receiver, 801595  
Ringer, 801827  
Switchhook Assembly, 10818  
Transmitter, 209624

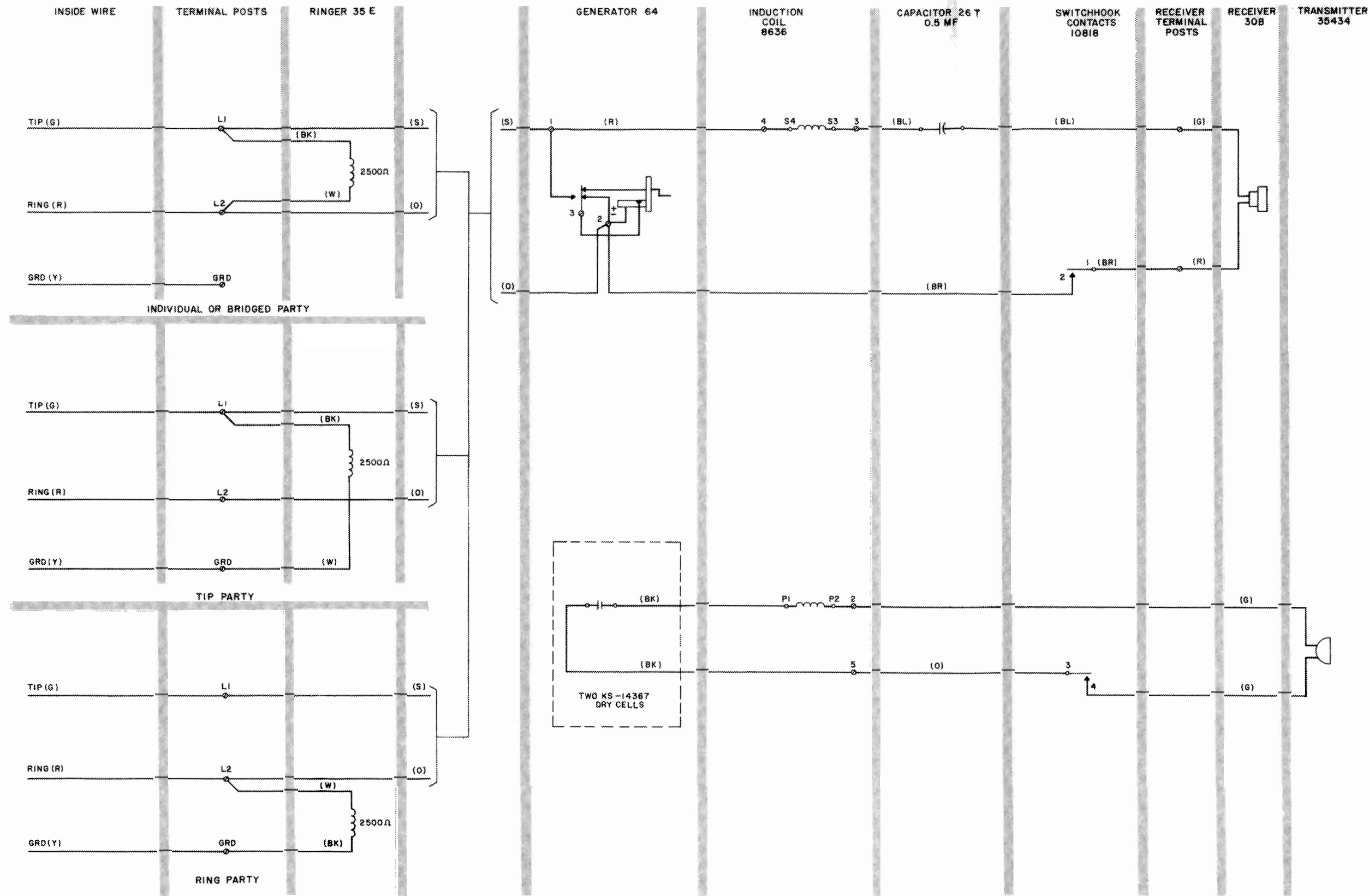


Fig. 4 - KS-19148, List 1 Telephone Set, Circuit Diagram