

**BELL SYSTEM PRACTICES**  
**Station Installation and Maintenance**

**SECTION C32.516**  
**Issue 1, June, 1953**  
**AT&T Co Standard**

## **TELEPHONE SET**

### **331-TYPE**

### **DESCRIPTION**

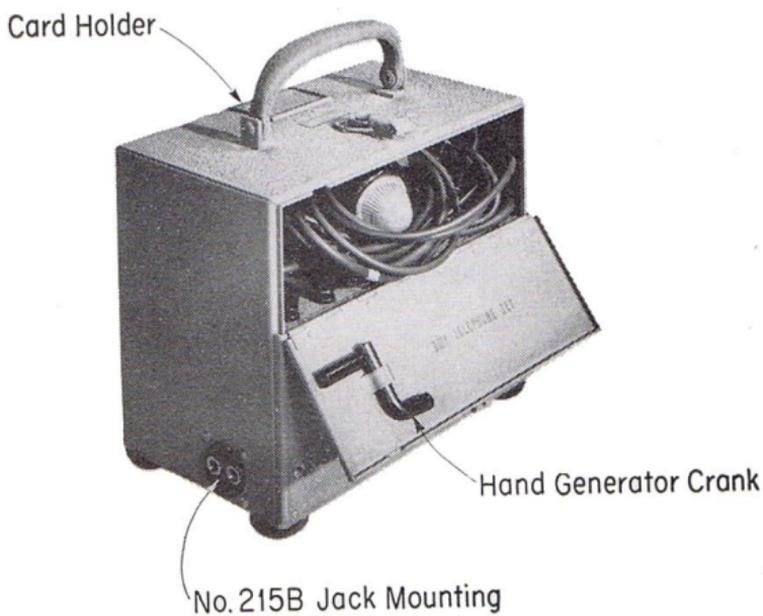
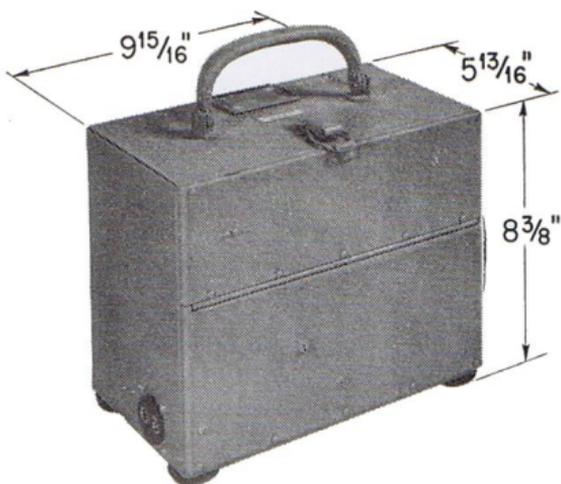
#### **1. GENERAL**

1.01 The 331A Telephone Set is intended for use by radio broadcasting companies in supervising connections at pickup points which are remote from the broadcasting station or at other control points. The set may be used with the usual types of order wire facilities on which local battery talking and a-c signaling may be employed to connect between two points on a private wire basis.

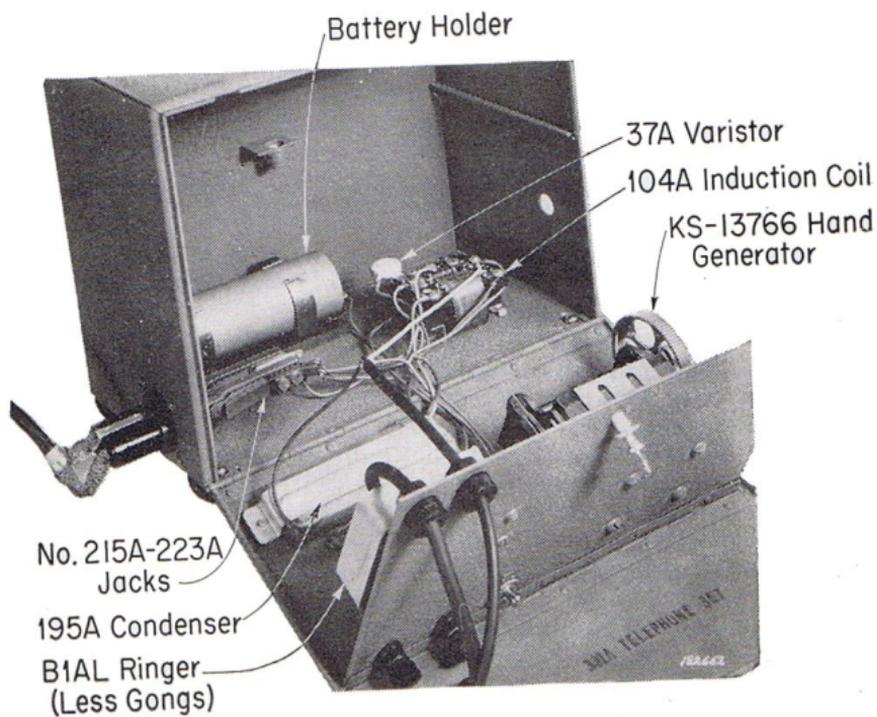
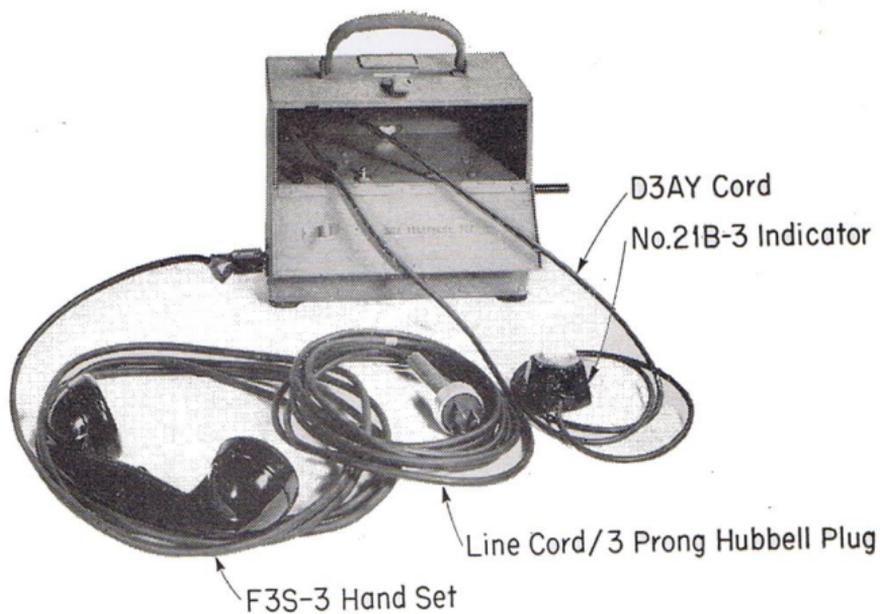
1.02 The 331A Telephone Set has been developed to supersede the D-97041 Telephone Set.

#### **2. DESCRIPTION**

2.01 The 331A Set consists of a gray green crinkle-finished aluminum box having a carrying handle, locking catch, and identification card holder mounted on the top. It contains a KS-13766 hand generator, dial ringer (less gongs) 104A induction coil, 195A condenser, a 21-type lamp indicator attached to a jacketed cord, a removable battery case which accommodates two KS-6522 flashlight dry cells, twin binding posts for line wire terminations and a ringer "On-Off" switch. In addition an F3S-3 push-to-talk hand set with a 12-foot jacketed cord terminated in a 289B plug is furnished as part of the set. A jacketed cord equipped with a 3-prong Hubbell plug is furnished to be used for connections from line terminating receptacles where wire attachments to the binding posts are not desired. A 215-type jack mounting appears at one end of the telephone set for external connection to either an F3S-3 hand set or a 52-type operator's head set, although the latter is not furnished with the set. On the opposite end an opening is provided for inserting the generator hand crank. (See Fig. 1.)



**Fig. 1—Portable Magneto Telephone Set  
(Packed and Ready to Transport)**



**Fig. 2—Portable Magneto Telephone Set  
(Unpacked and Internal Parts Shown)**

2.02 The front of the set is doubly hinged and is so constructed that a shelf is formed within the set separating the box into upper and lower compartments. A spring clip is riveted to the inside surface of the door to the top compartment under which the generator crank handle is stowed when not in use. Twin binding posts and the buzzer "On-Off" switch are located on the shelf of this compartment. This latter switch may be used to silence the buzzer when the set is used in the same room during "live" radio broadcasting, but the lamp indicator will always visually indicate signal intervals of incoming ringing current. With the buzzer inoperative, the lamp indicator will visually signal intervals of incoming ringing current to permit storing the hand set (or 52-type head telephone set) plus the cords and lamp indicator during transit. In addition, a small opening exists at the top left front of the set through which line wires may be entered for binding post termination when the upper compartment door is closed. (See Fig. 2.)

2.03 The shelf and lower part of the set are of one piece construction hinged to the bottom of the box. A winged catch centrally located to the rear of the shelf holds this section in place. By releasing this catch the front and shelf swing out to permit quick replacement of batteries and/or facilitate easy access to other equipment mounted therein. (See Fig. 2.) The special generator located in the lower compartment has a spring assembly and shaft so arranged that when the armature is rotated all other components of the set are disconnected from the line. When outgoing ringing current is applied, therefore, the buzzer and lamp indicator remain inoperative and the attendant can not ring into his own receiver.