

GROUP ALERTING SYSTEM STATION APPARATUS INSTALLATION AND MAINTENANCE

1. GENERAL

1.01 This section covers the telephone sets and 53-type control units used with a group alerting system.

1.02 This section is reissued to incorporate a modified 565GK telephone set to replace the 565GBR telephone set which is rated MD, and to generally update section.



It is extremely important that this system provide reliable and uninterrupted service at all times.

2. INSTALLATION

2.01 No work is required at stations to be alerted except to verify that proper alert signals are received.

2.02 Control station telephone sets are installed in the normal manner; however, it will be necessary to modify the internal wiring. Key and lamp designations and functions of the 6-button sets are shown in Table A.

2.03 Equip operative keys with 51A lamps. All power is obtained from the announcement set.

2.04 Inside wiring cables and wire should be formed as shown in Fig. 1.

2.05 It is difficult to properly form the wiring cables in the control unit after it has been permanently mounted. The following procedure is therefore recommended:

- (1) Measure and place the two top fasteners. (Do not mount control unit yet.)

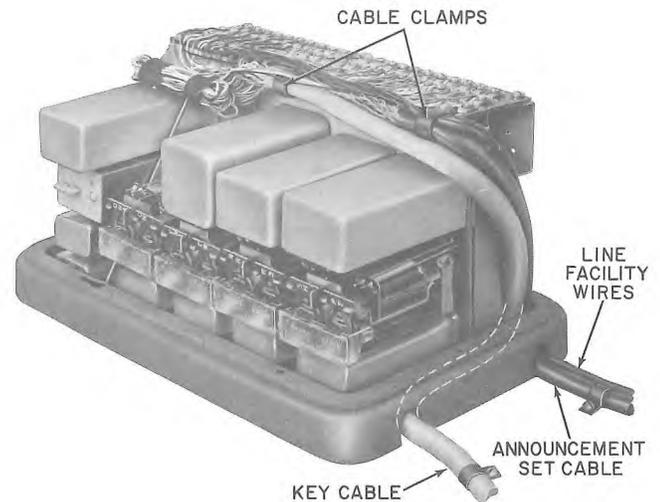


Fig. 1—Arrangement of Cable in 53A Control Unit

- (2) Feed key cable into entrance hole of control unit and form along lower lip of mounting base (see Fig. 1).
- (3) Feed announcement set cable and line facility wires through entrance slot.
- (4) Now set control unit on the two fasteners previously placed.
- (5) Place other two fasteners. Make sure all four fasteners are tightened securely.
- (6) Form cables and wire to the terminal strip as shown in Fig. 1, placing key cable in top cable clamp and announcement set cable and line facility wires in bottom cable clamp.

2.06 When all equipment has been installed, apply procedures outlined in Parts 3 and 4 of this section to verify that station and central office equipment is functioning properly.

TABLE A
KEY AND LAMP DESIGNATIONS AND FUNCTIONS
◆ 565GK OR 565GBR (MD) TELEPHONE SET ◆

KEY/LAMP NUMBER	TYPE KEY	DESIGNATION	FUNCTION
1	Locking	REG DIAL	Connects control station to central office via regular line.
2	Locking	AUTO ANN	Connects announcement set to regular line; starts and maintains announce cycle as long as operated.
3* (optional)	Locking	ALT DIAL	Connects control station to central office via alternate line.
4* (optional)	Locking	AUTO ANN	Connects announcement set to alternate line; starts and maintains announce cycle as long as operated.
5	Non-locking	RECORD	Connects control station to announcement set during recording period.
6	Non-locking	CHECK	Connects control station to central office via monitoring line.

* Keys should be made inoperative if alternate line is not provided.

3. STATION OPERATION—MINIMUM SYSTEM (MANUAL ANNOUNCEMENT)

3.01 An idle circuit termination provided in the modified 500DR telephone set permits continuous test of the control station loop. Any trouble on the loop is alarmed to the central office.

3.02 Monitoring is achieved by connecting a regular message telephone (located near the control station) to the alerting network in the central office.

3.03 An alert is initiated by the control station dialing the proper digits (assigned locally) for the groups desired. Announcements are repeated orally and the alert terminated by dialing the proper digit or by the automatic time-out in the central office.

3.04 A system check is made by dialing only the digit assigned for check. The monitoring station (3.02) will be the only station to be alerted. Termination of the check is the same as in 3.03.

4. STATION OPERATION — AUTOMATIC ANNOUNCEMENTS

4.01 In its normal standby condition, the 565GK or the 565GBR(MD) telephone set will have all lamps extinguished. If a control line, REG or ALT, should fail, the CHECK lamp will flash. Lift handset and hold the CHECK key operated. A high frequency tone verifies that a line has failed. To determine which line has failed, operate the REG DIAL key and then the ALT DIAL key, listening for dial tone. The line that has failed will not have dial tone. A line failure also brings in an alarm in the central office.

4.02 Control station procedure to initiate and terminate alert:

- (1) Operate REG DIAL key.
- (2) Lift handset. REG DIAL lamp lights, dial tone on line.
- (3) Dial digits to alert desired group(s). CHECK lamp begins flashing when first group dialed is alerted.

(4) If a recorded announcement is to be transmitted, proceed to Step 5; otherwise, repeat announcement as required and then proceed to Step 13.

(5) Operate and hold RECORD key operated.

- Systems using 53A control units will erase previously recorded message (4 to 7 seconds).

(6) When RECORD lamp lights:

- (a) REG DIAL lamp is extinguished.
- (b) Continue to hold RECORD key operated.
- (c) Make announcement (which is transmitted on REG LINE and recorded).

Note: If an attempt is made to record an announcement that is longer than the recording capacity of the announcement set, the RECORD lamp will go out, the REG DIAL lamp will light, and the recorder will stop.

(7) Release RECORD key. REG DIAL lamp lights, RECORD lamp goes out.

(8) Operate REG AUTO ANN key. (This starts announcement set.)

(9) Monitor announcement by holding operated CHECK key.

- CHECK lamp stops flashing, announcement is heard over MON LINE.

(10) To correct or change the announcement just recorded, begin sequence of operations at Step 5. There will be a 4- to 7-second delay while erase cycle is energized.

(11) When monitoring is completed, release CHECK key. CHECK lamp will flash (for duration of alert).

(12) To extend alert beyond automatic time-out period or to add groups to presently alerted groups:

- (a) Operate REG DIAL key and dial digit for each group desired.
- (b) Operate REG AUTO ANN key.

(13) To terminate alert manually:

- (a) Operate REG DIAL key. (Announcement set stops.)
- (b) Dial digit assigned to terminate alert. (Central office equipment will restore MON LINE and unanswered alerted lines to normal.)
- (c) CHECK lamp stops flashing.
- (d) Momentarily operate exclusion key to erase announcement just sent (**53B control units only**).
- (e) On-hook will extinguish REG DIAL lamp.

(14) If ALT LINE is provided, it is used in same manner as described in Steps 1 through 13 by substituting ALT for REG regarding keys and lamps.

(15) To check the system, proceed as in Steps 1 through 14, dialing only the digit assigned for system check. No stations will be alerted; only the MON LINE will receive the alerting signal and announcement.

(16) To initiate an alert during a power failure:

- (a) Operate REG (or ALT) DIAL key and lift handset; no lamps light.
- (b) Dial digits for groups desired.
- (c) Repeat announcement orally as long as required.
- (d) Dial terminating code.

Note: Central office will receive alarms during power failure since line terminations are removed during this period.

5. MAINTENANCE AND ASSOCIATED BSPs

5.01 No special maintenance is required on the 53-type control units and telephone sets. SD- and CD-69385-01 will be helpful in clearing trouble.

SECTION 480-310-200

5.02 Associated sections:

SECTION	SUBJECT
460-110-100	Special Safeguarding Measures
480-310-400	Modification of Control Station Telephone Set (53A, 53B Control Unit, 2AB Telephone Answering Set, KS-16765 Announcement Set)
502-120-200	Selection of Indoor Locations
514-126-200	2AB Telephone Answering Set
514-210-200	KS-16765 Announcement Set
514-210-300	KS-16765 Announcement Set