



CONSTRUCTION AND
MAINTENANCE PRACTICES

SECTION 55
PART 1120

101A-B KEY SYSTEM
DESCRIPTION AND USE

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1120.1 **GENERAL:** This part is reissued to generally revise the text, to include new information, to replace the issue of March 1957 and to cover the description and use of 101A and 101B key systems. These two systems are identical in operation and differ only in that the 101A system is installed in key boxes or metal cases while the 101B system is arranged to be built into a desk or table. FIGS. 1 and 2 show typical 101A and 101B installations.

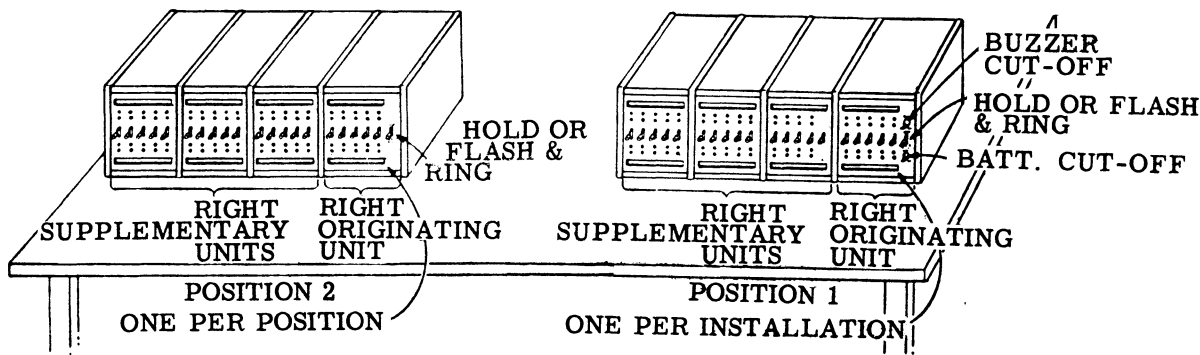
1120.2 **DESCRIPTION AND USE:** These systems are used to permit one or more attendants to answer, originate or hold calls on lines which may include central office or PBX lines and intercommunicating circuits.

1120.2-a A maximum of 40 lines may be terminated at each location. There shall not be more than 20 locations to a system.

1120.2-b Attendants' equipment consists of from one to four 10-line key units. The originating key unit at the master station, in addition to the line keys combined common hold, flash and ring key, is also equipped with battery and buzzer cut-off keys. Supplemental key units are added as required for each additional 10 lines, or any part thereof.

1120.2-c For each additional position, one originating key unit is required equipped with a hold-flash-ring key.

1120.2-d This equipment may be furnished in a double-sided assembly which provides for two attendants' sets mounted back-to-back; in this case, both are right originating. Supplementary units are added as required.



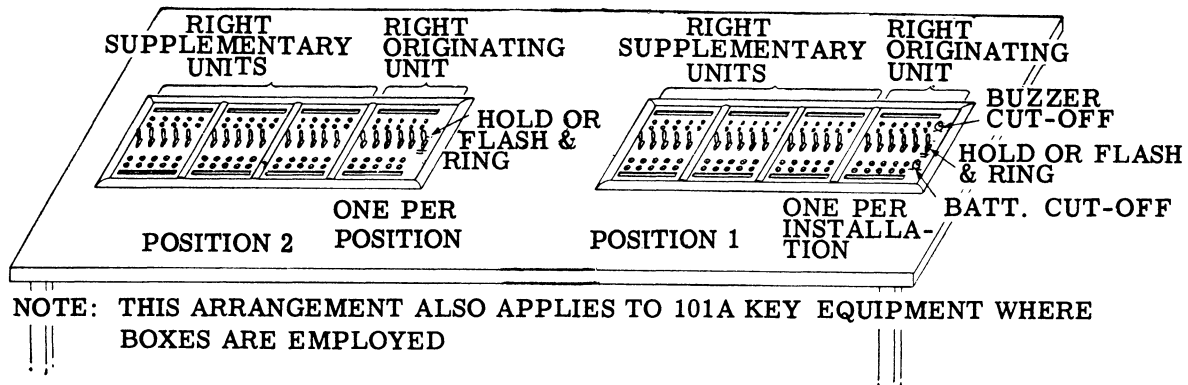
101A KEY EQUIPMENT MOUNTED BACK-TO-BACK ON DESK OR TABLE

Fig. 1

1120.2-e One hold key is furnished at each position and is common to all lines of the system; it is also a combined flash and ring key for certain types of signaling. Designation strips are mounted on each faceplate and cards may be readily placed or removed. Faceplates are finished in old brass.

1120.2-f The 101A key units may be mounted in wood boxes or metal casings. A single machine screw holds the key unit in place. Cable entrance is made through slots in the sides. When more than one box is used for additional lines, a separator is provided. Wood boxes are finished in walnut-mahogany; metal cases are finished in grey.

1120.2-g When 101B equipment is used, a framework is required for mounting the key units. This permits the face of the key unit to be flush with the top of the desk or table. Key units and terminal units are mounted on this framework and a dust cover is provided. (See Part 1121 - FIG. 1).



101B KEY EQUIPMENT MOUNTED FLUSH IN DESK OR TABLE

Fig. 2

1120.3 OPERATING FEATURES: Line lamps flash and the audible signal operates on incoming calls. The line lamps are extinguished and change to steady busy lamps as the attendant operates the line key and answers the call. When the call is held, the hold lamp is operated.

1120.3-a To call out, the attendant operates one of the line keys which causes the busy lamps to light and connects the telephone circuit to the line.

1120.3-b Calls may be held by operating the hold key and then restoring the line key. When the line key is again reoperated the hold circuit will release and the call will be reconnected to the telephone.

1120.3-c A standard intercommunicating circuit using buzzers and signal keys, or the dial selective system may be used. In either case one key position is used for termination.

1120.3-d The flash key is used to signal an operator or to restore dial tone from a central office line.