

BELL SYSTEM PRACTICES
Station Installation and Maintenance

SECTION C51.102
Issue 2, 1-2-35
AT&T Co. Standard

SIDETONE MAGNETO STATIONS

INSTALLATION

1. GENERAL

1.01 This section includes installation information relating specifically to sidetone magneto stations. For information pertaining to building entrances, protectors, station wiring, locating and mounting of station apparatus, other than batteries and sets containing hand generators, see Divisions C20 and C30. Tests to be made at time of installation are covered in Section C63.201.

1.02 This section is reissued to cover the installation of the unit type battery (KS-6700), to specify a three-cell battery for stations having 395 type transmitters and a two-cell battery for stations having 625 type transmitters.

2. LOCATING SUBSCRIBER SETS CONTAINING GENERATORS

2.01 **Wall Sets** at magneto stations should be mounted in such locations that the generator crank handle may be conveniently operated.

2.02 **Bell Boxes** containing hand generator require mounting in such a way that generator crank handle may be conveniently operated. For sets on desks it is usually preferable (unless the subscriber is left-handed) to locate the bell box on the right-hand side of desk in an inverted position so that generator crank handle projects toward the front.

3. INSTALLATION OF BATTERY

3.01 If the set or backboard is not arranged to hold the battery, use the unit type battery, a battery box or battery bag located as close as practicable to the set without being too conspicuous or in the way. Mount the battery, box, or bag on wall or other support where it will not be disturbed and associated wires are not likely to be damaged.

3.02 Do not locate battery in damp or unusually hot places, such as near or above stoves, furnaces, radiators, etc., and mount it in such a way that the dry cells will be in a vertical position.

3.03 When the battery is located on a desk it should be mounted so that it cannot be struck by the feet or cleaning tools. If mounted in the basement on a floor girder, it should not project below the girder so as to present a hazard to a person walking on the basement floor.

3.04 Where practicable, avoid locations on finely finished surfaces or on surfaces which would be expensive to repair in case of removal of the battery. If a battery must be placed on such surfaces, first obtain permission from the subscriber or owner of the building to drill the surface.

3.05 Two No. 8 round head screws (1-1/4" long) are required for mounting either the unit battery or the battery box. These screws should be placed in a horizontal line, the distance between screw center lines being 3-1/2". Sufficient space (at least 3 inches) should be allowed above the screws to permit hooking the battery or box onto the screws. There should be approximately 3/16" between the mounting surface and the underside of the screw head.

3.06 Where appearance is not a consideration, a standard battery bag may be used in place of the battery box, but do not use bags in locations where the cells would be subject to moisture, metallic dust, damage from exposure or other adverse conditions. Two round head No. 8 screws placed 8-1/4" apart may also be used to mount the battery bag.

3.07 For the run between the battery and the set, use inside wire or duct wire as recommended in Section C24.041. Leave sufficient slack wire in battery box or bag so that cells may be lifted out for inspection.

3.08 At time of installation of batteries, mark date on each battery or cell. When using dry cells, connect them in series, using No. 540 cords or insulated wire for connecting the cells together. Three cells are required for hand telephone sets with 395 type transmitters and desk stands and two cells for 625 type transmitters.

3.09 When given specific instructions to install an additional battery, as in cases where requirements are exceptional due to unusual amounts of traffic, connect an additional battery in parallel with the battery regularly provided. Each battery or box should be mounted individually, but the two batteries should be as near together as convenient.