

4A KEY EQUIPMENT EQUIPMENT DESIGN REQUIREMENTS STATION SYSTEMS

1. GENERAL

Scope

1.01 This specification, together with the supplementary information listed herein, covers the requirements for the application of the 4A key equipment.

1.02 This specification is reissued to:

(a) Rate the use of the 684BA subscriber set "Mfr Disc" replaced by the 685A subscriber set.

(b) To rate the use of the 27A and 28A key telephone units "Mfr. Disc." replaced by the 5A and 32A key telephone units.

Features and Capacity

1.03 The features and capacity of the 4A key equipment are as follows:

Number of C.O. or PBX Lines	One
Number of Stations per System	One
Number of Stations per Line	One
Head Telephone Set	Yes
Pickup	Yes
Holding	Optional
Intercommunicating	No
Cutoff	No

Description

1.04 The 4A key equipment provides for the use of a head telephone set in conjunction with a regular subscriber or PBX station line. It is arranged so that the connection to the line is made through a lever-type key. Also, as an optional feature, the attendant may hold the line by operating a hold key and, by means of a set of associated telephone jacks, may disconnect the head telephone set. Thus other duties, such as making reference to a file, may be performed some distance away while holding the call without removing the head telephone set from the attendant's person.

Operating Features

1.05 A call is made or answered by operating the key lever to the talk position. When arranged for holding, the line is held by operating the lever to the hold position. The incoming signal is furnished by means of a ringer in a subscriber set.

1.06 The cord of the head telephone set terminates in a plug to provide for quick removal. The telephone jacks are mounted in a small box designed to be attached to the end of a desk. The talk-hold key, along with a varistor, is also mounted in this box. The ringer and associated antisidetone apparatus are included in a subscriber set. All other associated apparatus, except the subscriber set battery feed filter, is arranged to mount in a 105-type apparatus box.

1.07 The dial, when required, is usually mounted on a 6000-type dial mounting. When it is required that the dial be mounted without marring the desk top, a bracket designed for fastening at the end of the desk, so that the fastening screws do not enter the exposed woodwork, may be used.

Power

1.08 The circuits for the 4A key equipment are designed to operate on a regular subscriber line basis. For use on longer loops, a local battery talking arrangement is provided. The local battery may be either a dry or a storage battery, if already available, filtered through a subscriber-set battery feed filter.

1.09 Signaling current is always furnished over the line.

Subdivision of Equipment

ED-69158-01 - Apparatus Box

2. SUPPLEMENTARY INFORMATION

812-000-000 - Station Systems Index

AA128.006 - List of General Equipment Requirement Sections

J53007 (812-260-150) - Key Telephone System No. 1A

KS-5796 - Backboards

3. DRAWINGS

Key Sheet

SD-69061-01

Circuit

SD-69087-01 - 4A Key Equipment Circuit

Equipment

ED-69158-01 - 105-type Apparatus Box Assembly

ED-91929-01 - Equipment Units - Angle Type - 1-3/4 inch wide

4. EQUIPMENTED-69158-01 - Apparatus Box

Group 3 - One 105B apparatus box for housing four 1-3/4-inch key telephone units (see note 5.01)

Group 4 - One 105BW apparatus box for housing four 1-3/4-inch key telephone units (see note 5.01)

4.01 The following table shows the equipment and apparatus used with the 4A key equipment:

Station	Subscriber Set	Apparatus Key Telephone Unit*	Key	Dial†
Common Battery Dialing and Holding	685A or Equivalent	5A and 32A	6026B	6A
Common Battery Dialing			6026D	
Common Battery Holding			6026B	None
Common Battery No Dialing No Holding			6026D	
Local Talk Battery Common Signal Battery Dialing and Holding	634YD	5A	6026B	6A
Local Talk Battery Common Signal Battery Dialing			6026D	
Local Talk Battery Common Signal Battery Holding			6026B	None
Local Talk Battery Common Signal Battery No Dialing No Holding			6026D	

* The key telephone units may be mounted in a 105-type apparatus box or in an apparatus cabinet.

† Either the 6000D dial mounting and the 52D dial adapter or the 40A dial mounting (which includes the 52D dial adapter) may be used to mount the dial on a desk. The 40A mounting is designed to be fastened at the end of the desk without marring the exposed woodwork. It may be used for either left- or right-hand mounting.

5. GENERAL NOTES

5.01 The 105-type apparatus box will not as a rule be grounded unless it contains equipment which is connected to a locally grounded battery supply. If local conditions require it, the box may be grounded by means of a wire connected securely under one of the mounting place screws in the apparatus box.

List of "A&M Only" and "Mfr. Disc." Equipment

5.02 The 684A, BA, BK, BL, and BM are rated "Mfr. Disc." for use with the 4A key equipment. The 105A and 105AW apparatus boxes per ED-69158-01, Groups 1 and 2, are rated "A&M Only" for use with 4A key equipment.

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