

SENDER TEST CONNECTOR FRAME EQUIPMENT DESIGN REQUIREMENTS NO. 1 CROSSBAR SYSTEM

1. GENERAL

Scope

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the framework, equipment, and circuits to be used in the engineering, manufacture, and installation of the sender test connector frame in No. 1 crossbar office. Equipment included in this specification may be ordered by specifying the code, list, item, and group numbers covered in Part 4.

1.02 This section is reissued to incorporate previous appendix changes.

1.03 The sender test connector frame accommodates auxiliary sender test connector units for both the originating and terminating sender test frames. The auxiliary originating sender test connector unit J27952B is arranged to connect a maximum of ten subgroups of subscriber and key pulsing senders to the originating sender test frame, and when used, increases the capacity of the originating sender test frame from 20 to 30 sender subgroups. Auxiliary originating sender test connector units J27952D and J27952E are furnished in offices arranged for automatic message accounting (AMA). They provide access to the line vertical identification, G0 and L0 leads, on a sender subgroup basis. The auxiliary terminating sender test connector unit is arranged to connect ten subgroups of terminating senders to the terminating sender test frame, and when used, increases the capacity of the terminating sender test frame from 10 to 20 sender subgroups. When required, a second unit may be used to increase this capacity from 21 to 30 sender subgroups. This second unit may be mounted on the same frame with the first unit in the space provided for the auxiliary originating sender test connector unit, on the AMA auxiliary originating sender test connector units, where neither

of these units has been furnished. If either of these units has been furnished, this second unit (for the increase to 30 sender subgroups) shall be mounted on a second sender test connector frame, about 4'-6" from the floor.

1.04 The sender test connector frame is a single-sided steel structure 11'-6" high and 2'-8-1/8" long. The auxiliary terminating sender test connector unit, which occupies a space of eighteen 2" mounting plates, is located at the top of the frame. The auxiliary originating sender test connector unit, which occupies a space of nineteen 2" mounting plates, is mounted below the auxiliary terminating sender test connector unit. The miscellaneous test posts and jacks required are mounted in a 2" jack, key, and lamp panel below the auxiliary originating sender test connector unit. The connector units for AMA, which occupy an 11" space for G0 and G1 and 11" for G2, are mounted below the miscellaneous test post and jack panel.

Subdivisions of Equipment

Framework

ED-25071-01 — Frame Assembly

ED-25278-01 — Jack, Key, and Lamp Panel

Equipment

J27952B — Auxiliary Originating Sender Test Connector Unit

J27952D — Auxiliary Originating Sender Test Connector Unit for AMA — G0 and G1

J27952E — Auxiliary Originating Sender Test Connector Unit for AMA — G2

J28051B — Auxiliary Terminating Sender Test Connector Unit

2. SUPPLEMENTARY INFORMATION

816-000-000 — No. 1 Crossbar System Index

BSP — Gen. Equip. Req. — Wiring and Cabling

BSP — Gen. Equip. Req. — Numbering and Lettering

BSP — Gen. Equip. Req. — Auxiliary Framing

J25551 (816-040-150) — End Guards, Aisle Pilot Lamp, and DPTS Supports, and Fuse Record Book and Holder

J25552 (816-017-150) — Frame Lighting and Appliance Outlets

J27952 (816-603-150) — Originating Sender Test Frame

J28051 (816-606-150) — Terminating Sender Test Frame

Floor Plan Data — Section 9.3, Sheet 9

3. DRAWINGS**Keysheet**

SD-25000-01 — Keysheet — Crossbar Systems

Framework

ED-25020-01 — Miscellaneous Mounting Details and Cable Brackets

ED-25023-01 — Frame Details

ED-25071-01 — Frame Assembly

ED-25278-01 — Assembly of Jack, Key, and Lamp Panels

ED-91172-01 — Bulb Angle

Equipment

ED-25417-01 — Sender Test Connector Frame

Wiring Cabling

ED-25420-01 — Switchboard Cabling Details

4. EQUIPMENT**Framework**

ED-25071-01 — Frame Assembly

Group 1 — Framework for one sender test connector frame

ED-25278-01 — Jack, Key, and Lamp Panel

Item 2 — Assembly of jack, key, and lamp panel

Equipment

4.01 The following equipment units are arranged to mount on the sender test connector frame:

J27952B — Auxiliary Originating Sender Test Connector Unit

List 1 — Framework, assembly, wiring, and common equipment for an auxiliary originating sender test connector unit

J27952D — Auxiliary Originating Sender Test Connector Unit for AMA

List 1 — Framework, assembly, wiring, and equipment for one auxiliary connector unit — AMA — G0 and G1

J27952E — Auxiliary Originating Sender Test Connector Unit for AMA

List 1 — Framework, assembly, wiring, and equipment for one auxiliary connector unit — AMA — G2

J28051B — Auxiliary Terminating Sender Test Connector Unit

List 1 — Framework, assembly, wiring, and common equipment for an auxiliary terminating sender test connector unit

5. GENERAL NOTES**Equipment**

5.01 The first sender test connector frame shall be provided with one key, lamp, and jack panel per ED-25417-01, Fig. A, equipped with miscellaneous frame circuit SD-25281-01, Figs. 2, 3, and 5.

5.02 One high-resistance ground supply circuit per SD-25281-01, Fig. 4, shall be mounted on the relay rack and cabled to the HRG test post per SD-25281-01, Fig. 3, on the auxiliary sender test connector frame.

5.03 Since the auxiliary sender test connector frame accommodates both auxiliary originating sender test connector units and the auxiliary terminating sender test connector unit, it

should be located near the originating and terminating sender frames.

5.04 Battery and ground supply for the connector units is obtained from the associated test frames over 24 gauge leads in cables between the test frames and the units. Since only one sender at a time will be cut thru to the associated test frame, 24 gauge leads will, in general, be satisfactory for the battery and ground supply. If on a particular job, the auxiliary sender test connector units are located more than 75' from the associated test frame, the battery and ground leads shall be doubled up so that the resistance in each of these leads does not exceed 2 ohms.

Wiring and Cabling

5.05 Since no between unit local wiring is required on this frame, all leads, not contained in the unit local cables, are run in switchboard cables which are terminated directly on either unit terminal strips or apparatus terminals. With the frame connected in this manner, no local cable is required for it.

5.06 The code numbers of the switchboard cables, ordinarily used on the sender test connector frame, are shown on the switchboard cabling drawing. The circuits should be checked, however, to insure that the proper codes are specified to meet the latest circuit requirements.

Bell Telephone Laboratories, Inc.

Dept. 3040