

## SIX STATION CONFERENCE AND ALARM EQUIPMENT EQUIPMENT DESIGN REQUIREMENTS

### STATION SYSTEMS

#### 1. GENERAL

##### Scope

1.01 This specification, together with the supplementary information listed herein, covers the framework, equipment, and circuit design requirements for the manufacture of a six station conference and alarm circuit, with calls from any station signaling all other stations, arranged for continuous test of station loop conductors - equipment.

##### Description

1.02 The Six Station Conference And Alarm Equipment consists essentially of a packaged unit primarily for use by United States Air Force (SAC) installations.

1.03 Relay units: Relay units are surface wired on 2- by 23-inch mounting plates or a multiple thereof, or on unit panels.

1.04 Application: Provides a six station conference and alarm circuit arranged for continuous test of station loop conductors. A call from any one station will signal all other stations. Lamp displays are provided at two of the six stations to indicate the station originating a call.

#### 2. SUPPLEMENTARY INFORMATION

812-000-000 - Station Systems Index  
AA128.006 - List of General Equipment Requirements Sections  
J53005 (812-107-150) - No. 101A and 101B Key Equipment  
J53007 (812-260-150) - Key Telephone System No. 1A  
J53021 (812-260-155) - Key Telephone System No. 1A1  
J86471 (802-652-157) - 101J Power Plant, Metallic Type, Automatic Regulation  
J86731 (802-652-155) - 101G Power Plants, Packaged Power Supplies Without Battery Reserve  
J99219 (AA381.315) - Steel Apparatus Cabinets for Housing Miscellaneous Equipments  
KS-5523 - Static Ringing Generator  
KS-5796 - Backboards for 105-type Apparatus Boxes

#### 3. DRAWINGS

##### Circuits

SD-69160-01 - Equipment Units  
SD-69365-01 - Six Station Conference and Alarm Circuit

##### Framework

ED-69158-01 - 105-type Apparatus Box  
ED-91180-01 - 18-plate Apparatus Cabinet

##### Equipment

ED-69369-01 - Six Station Conference Circuit - Miscellaneous Equipment  
ED-91929-01 - Equipment Units, Angle Type, 1-3/4 inches wide

#### 4. EQUIPMENT

ED-69158-01 - 105-type Apparatus Box

Group 3 - One 105B apparatus box - beige-gray wrinkle finish for housing four 1-3/4 inch angle-bracket units.

Group 4 - One 105BW apparatus box - beige-gray wrinkle finish for housing four 1-3/4 inch angle-bracket units.

ED-69369-01 - One Set of Miscellaneous Equipment for a Six Station Conference and Alarm Circuit, with Calls from Any Station Signaling All Other Stations, Arranged for Continuous Test of Station Loop Conductors - Equipment (See Notes)

Group 1 - One set of miscellaneous equipment for five telephone set terminations for Bell System installations consisting of apparatus boxes, buzzers, connector blocks, covers, backboards, filters, fuses, indicators, indicator mountings, keys, key guards, lamps, lamp mountings, resistors, and telephone sets for various circuits in Central Security Room, Wing Operations Room, and Station Locations.

Group 2 - One set of miscellaneous equipment for five telephone set terminations for non-Bell System installations consisting of apparatus boxes, buzzers, connector blocks, covers, backboards, filters, fuses, indicators, indicator mountings, keys, key guards, lamps, lamp mountings, resistors, and telephone sets for various circuits in Central Security Room, Wing Operations Room, and Station Locations.

Group 3 - One set of miscellaneous equipment in addition to group 1 for one PBX termination for Bell System installations consisting of backboards, idle line termination equipment units, indicators, resistors, and subscriber sets for idle line termination circuits and ringer circuits in the PBX Room.

Group 4 - One set of miscellaneous equipment in addition to group 2 for one PBX termination for non-Bell System installations consisting of backboards, idle line termination equipment units, indicators, resistors, and subscriber sets for idle line termination circuits and ringer circuits in the PBX Room.

Group 5 - One set of miscellaneous equipment in addition to group 1 for one additional telephone set termination for Bell System installations consisting of connector blocks, covers, backboards, resistors, and telephone sets for a telephone set circuit in station locations.

Group 6 - One set of miscellaneous equipment in addition to group 2 for one additional telephone set termination for non-Bell System installations consisting of connector blocks, covers, backboards, resistors, and telephone sets for a telephone set circuit in station locations.

B. For non-Bell System installations the following items, in addition to the above groupings, shall be ordered and installed by the telephone company.

One - J86731A,LNP2(101G) Power Plant or  
One - J86471A,LNP(101J) Power Plant

One - KS-5523 Static Ringing Generator or equivalent

C. One - J86731A,L6 Power Plant (for Bell System use) or one - J86731A,LNP2 (for non-Bell System use) may be required for J53027D if 24-volt dc power is not already available at this location. These power plants are to be ordered and installed by the telephone company.

ED-91180-01 - 18-plate Apparatus Cabinet for eighteen 1-3/4 inch plates or fifteen 2-inch plates

Group 18 - One wooden base and four bolts, nuts, and washers for fastening cabinet to base, 122Y gray-green lacquer finish.

Group 25 - One cabinet complete with louvers for fifteen 2- by 23-inch mounting plates, 575A gray-green wrinkle enamel.

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

Group 1 - Unit assembly and surface wiring per Fig. 1 equipped with one 274AH inductor.

J53027A (AT&TCo Std) - Line Circuit - Relay Unit

List 1 - Assembly, wiring, and equipment for one line circuit unit per SD-69365-01, Fig. 1 and one fuse circuit unit per SD-69365-01, Fig. 5 including one terminal strip - surface wired.

J53027B (AT&TCo Std) - Common Control and Conference Circuit, Fuse Circuit, and Alarm Cutoff Circuit - Relay Unit

#### Notes

A. For Bell System installations the following items, in addition to the above groupings, shall be ordered and installed by the telephone company.

One - J86731A,L6(101G) Power Plant or  
One - J86471A,L1(101J) Power Plant

One - KS-5523 Static Ringing Generator or equivalent

List 1 - Assembly, wiring, and equipment for one common control and conference circuit, per SD-69365-01, Fig. 3, two fuse circuits, per SD-69365-01, Fig. 5, and one alarm cutoff circuit per SD-69365-01, Fig. 10 including four terminal strips - surface wired.

J53027C (AT&TCo Std) - 18-plate Cabinet and Equipment

List 1 - Assembly, wiring, and equipment for one cabinet unit including common equipment, six line circuits, one common control and conference circuit, two fuse circuits, one alarm cutoff circuit, and one ringing lamp circuit - cabinet mounted.

	<u>Equip</u>	<u>See Notes</u>
Cabinet Assembly, ED-91180-01,G25	1	A,B
Base, ED-91180-01,G18	1	
Line Circuit Unit, J53027A	6	
Common Control and Conference Circuit, Fuse Circuit, Idle Line Termination Circuit, and Alarm Cutoff Circuit Unit, J53027B	1	
Ringing Lamp Circuit Unit, J53027E	1	

Notes

- A. The steel apparatus cabinet, ED-91180-01, is arranged for mounting terminal strips on which the incoming leads are terminated and connections made from them to the relay units by means of jumper wire.
- B. Space is provided in this cabinet for mounting the 101J-type power plants per J86471A, List 1 or List LNP, specified under ED-69369-01, Notes A and B.

J53027D (AT&TCo Std) - Auxiliary Indicator Circuit - Relay Unit (See Notes)

List 1 - Assembly, wiring, and equipment for one auxiliary call indicator circuit per SD-69365-01, Fig. 4 including one terminal strip - surface wired.

Notes

- A. This unit is mounted on a unit panel which is 6-15/16 inches high by 3-29/32 inches wide and wired to an

associated screw terminal panel at the rear. The following apparatus shall be shipped loose with this unit for mounting purposes.

- One - 15A Apparatus Mounting
- One - 116A Cover
- One - 173A Backboard

J53027E (AT&TCo Std) - Ringing Lamp Circuit - Relay Unit

List 1 - Assembly, wiring, and equipment for one ringing lamp circuit unit per SD-69365-01, Fig. 16 including one terminal strip - surface wired.

J86471A - Power Plant

Equipment - ED-81837-01

List 1 - Assembly, wiring, and equipment for one 18- or 24-volt, 4-ampere dc-, 18-volt 1.6-ampere ac-, 10-volt 5-ampere ac- power supply for 105- to 129-volt 60-cycle ac service. (For Bell System installations.)

List LNP - Same as list 1 above except for non-Bell System installations.

J86731A - Power Plant

List 6 - Framework, enclosing cabinet, assembly, wiring, and equipment for power supply without ringing - beige-gray wrinkle finish. (For Bell System installations.)

List LNP2 - Same as list 6 above except for non-Bell System installations.

Miscellaneous Equipment

- 15A Apparatus Mounting
- 116A Cover
- 173A Backboard

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