

PBX SYSTEMS

756A PBX

SUMMARIZING SPECIFICATION

1. GENERAL

Scope

1.01 This specification, together with the supplementary information listed herein, covers the packaging and ordering requirements for complete 756A PBX installations. Information covering the various units comprising the 756A PBX is covered in J58829.

1.02 This specification is reissued to correct some errors in code and list numbers in Tables A and B, to eliminate J58824R tie trunk from Table B, to add the manual line section of Table B, and to clarify wording of some list title. No equipment was furnished per issue 1.

Description

1.03 A complete 756A PBX installation is comprised of three parts of equipment as shown in Table A, namely, the switching portion, the attendant equipment, and optional stand-by power equipment where needed. The summarizing code in Part 4 covers only the switching equipment, stand-by battery power plant equipment, and attendant cord switchboard equipment. The cordless attendant position units are covered by apparatus codes. Tie trunks and other miscellaneous optional units are ordered under the J codes shown in Table B.

(a) Switching equipment code covers the complete 756A PBX with batteryless power plant, six central office trunks (with wiring and sockets for four additional trunks), three attendant trunks, and 40 or 60 station line circuits, as well as the 30-foot long plug-in house and feeder cables and module interconnecting local cable. A set of drawings, circuit descriptions, spare fuses, alarm lamps, a wire wrapping tool, an unwrapping tool, and test leads are also included. All wiring options available are included in this package. Where longer house and feeder cables are required, additional lengths of inside wiring cable (76 pairs for module 1 and 101 pairs for module 2) should be ordered and spliced on at the job.

(b) Attendant Position Equipment: 756A PBXs in most typical installations will employ cordless attendant positions. One or two attendant positions may be provided. This material is covered by

apparatus codes and is therefore not shown under the summarizing codes. One 700A modular station unit provides 12 pickup keys for a maximum of nine central office trunks and three attendant trunks. One 701A modular station unit provides 18 pickup keys for a maximum of ten central office trunks and three attendant trunks, leaving five keys which may be utilized as pickup keys for key telephone systems, without holding. Both the 700A and the 701A units are equipped with a 30-foot long cable for connecting to a cross box. Where a longer length is required, an additional length of inside wiring cable should be ordered and spliced on at the job.

(c) Night Attendant Position: To permit a night watchman to handle calls during off hours, a 565AB illuminated 6-button key telephone set may be provided to function as an auxiliary to the attendant position.

(d) An attendant cord switchboard equipment utilizing a 556A PBX switchboard may be used in lieu of the cordless modular station units where unusual traffic conditions make this arrangement necessary.

(e) Power Plant: For most typical 756A PBX installations, the batteryless power plant which is furnished as an integral part of the basic switching module will be all that is required. Where the PBX subscriber requires PBX service during commercial power failures lasting more than a few minutes, a stand-by battery module may be provided.

(f) Drawings: A set of schematics, cabling diagrams, an equipment diagram and CD sheets (circuit descriptions) for the 756A PBX switching equipment, cordless attendant equipment, dial conference unit, and tie trunk J58824AT are furnished with the switching equipment as a part of J58830A, List 1 or 2. These drawings and CD sheets are reduced in size and placed in binders. Drawings for the 556A PBX switchboard and for miscellaneous optional trunks that may be used with this PBX (except, as noted above) are not included in the package codes and must be ordered separately, when required.

(g) Trunks, Code Call, and Conference Units: The various optional units which may be provided in the 756A PBX are covered in Table B. Ten line circuits

(numbers 20 to 29) in the 756A PBX may be used for miscellaneous trunks in which case they are referred to as trunk terminals (80 to 89). The line circuit capacity of the PBX is reduced one line for

each of these trunks added, and in case of the dial conference circuit, they are reduced by five lines. Spare space for mounting 18, 2- by 23-inch mounting plates is available in the basic module.

Table A - Ordering Information for 756A Installations

Number of Lines	Items to Be Ordered					
	Switching Eqpt	Attendant Position			Power	
		Cordless	556A Cord Swbd	Optional Night Att Pos	Batteryless	Battery Reserve
40	J58830A, List 1 (See note A)	1 or 2, 700A or 701A Modular Station Units [See 1.03(b)]		565AB 6-button Key Tel Set [See 1.03(c)]	Included with Switching Eqpt	J58830A, List 3 [See 1.03(e)]
60	J58830A, List 2 (See note A)	1 or 2, 700A or 701A Modular Station Units [See 1.03(b)]	J58830A, List 4, and List 5, 6, 7, 8, 9, or 10 as required [See 1.03(d)]	565AB 6-button Key Tel Set [See 1.03(c)]	Included with Switching Eqpt	J58830A, List 3 [See 1.03(e)]

Notes

- 18 PICKUP KEY  
12 pickup KEYS
- A. The basic switching equipment is equipped with six central office trunks. A maximum of four additional plug-in CO trunks per J58829M, List 2 and/or ringdown tie trunks per J58829T, List 1 may be ordered separately, and installed at the job. For other tie trunks, see Table B.
- B. In addition to the above, the following items should be ordered separately as required for a particular job:
1. Binding post chambers as required to meet local plant conditions.
  2. Additional inside wiring cable where the 30-foot lengths provided with the switching equipment and/or attendant position are of insufficient length.
  3. Attendant head telephone set or headset.
  4. 551A keys for station lines assigned to be connected for night or emergency central office trunk calls.
  5. Miscellaneous trunks per Table B, if required.

Table B - Central Office, Tie Trunks, and Miscellaneous Units for Use With the 756A PBX

Type	Equipment Code	Function	Schematic	Remarks
Central Office Trunks	J58829M, List 2	2-way Trunk to Central Office	SD-65752-01	Max of four of these plug-in units may be added to the basic 756A PBX
	J59013F	Manual Central Office Trunk, for Use With the 556A Nonmultiple Switchboard	SD-65665-01	This unit mounts in the 556A switchboard and is the same unit as used in a 555 PBX
Tie Trunks	*J58829T	Tie Trunk Unit - Outgoing Manual and Dial Selected, With 2-second Ringing Signal - Incoming Ringdown	SD-65756-01	Max of four of these units may be provided in lieu of four CO trunks per J58829M
	J58824AH	Outgoing: Dial Repeating; Incoming: Dial Transmitting - Outgoing: Battery and Ground Pulsing and Loop Supervision; Incoming: Battery and Ground Pulsing and Loop Supervision or Loop Pulsing and Loop Supervision (Attended PBX)	SD-65531-01	
	J58824L L7	Outgoing: Dial Repeating; Incoming: Dial Transmitting - Outgoing: Battery and Ground Pulsing and Loop Supervision; Incoming: Battery and Ground Pulsing and Loop Supervision or Loop Pulsing and Loop Supervision (Unattended PBX)	SD-65535-01	
	J58824BC	Outgoing: Dial Repeating; Incoming: Pulse Correcting - DX Signaling or for Use With CX Signaling Type "E," 2600-cycle Single-frequency Signaling, or "N" or "O" Carrier Terminal	SD-65718-01	
	J53120AB	2-way Manual Ringdown, Through and Terminating, Arranged for Operation on Composited or Non-composited Lines	SD-66029-01	Limited to use with manual switchboard only
	J58824N	Outgoing: Manual and Dial Selected; Incoming: Dial Repeating; for Use Where Trunk Conductor Loop Resistance Is Between 350 Ohms and 1650 Ohms	SD-66042-01	

\*Available about 11-1-57

(AMER AIR LINES) 1 - J58824 BC-1, L-19 (2WAY DIAL TIE TRUNK) UNIT  
 e/w/ J-58824 BC-1, L-10  
 1 - J58824 BC-1, L-WA.

Table B (Contd)

Type	Equipment Code	Function	Schematic	Remarks
Tie Trunks	J58824AT	Tie Trunk Unit - Outgoing Dial Selected - Incoming Dial Transmitting - Arranged For Reverse Battery Supervision	SD-65755-01	
	J53120AA	2-way Loop Supervision	SD-66065-01	
	J58824S	2-way Manual and Dial Selected	SD-66066-01	
	J53120P	2-way Manual Ringdown - Arranged for Operation on Composited or Non-composited Lines	SD-66578-01	Limited to use with manual switchboard only
Long-line Units	ED-66057-02	Manual Long-line Circuit - For Long PBX Station Lines or Long PBX Trunks	SD-66057-01	
	J58824AK	Dial Long-line Circuit - 10 pps Repeating - For Long PBX Station Lines or for Long Manual Selected PBX Trunks to Dial Central Office - For Use in PBXs With Voltage Range of 32 to 46V or 44 to 52V	SD-66060-01	
	J99234J	10 pps Pulse Correcting Long-line Circuit for Long Manually Selected Trunks to Panel, Crossbar, or Step-by-Step Office From PBX, or for Long-station Lines Associated with PBX	SD-96009-01	ED-92554-01
	J99234D	Manual or Dial Long-line Circuit - For Long Trunks to Manual, Panel, or Step-by-Step Office From PBX, or for Long Lines in PBX - Arranged for Recall From Toll	SD-96010-01	ED-92544-01
Long-trunk Unit	J99234E	Manual or Dial Long-trunk Circuit - For Use With Trunks From PBX Selector or Selector-Connector Multiple, or Line, Link and Marker Circuit, to Manual, Panel, or Step-by-Step Office	SD-66474-01	ED-92545-01
Dial Conference Unit	J58829S	Dial Conference Unit	SD-65745-01	
Manual Conference Unit	J53120R	Manual Conference Unit	SD-66462-01	Limited to use when 556A switchboard is provided

Table B (Contd)

Type	Equipment Code	Function	Schematic	Remarks
Code Call	J58822B	3A Code Call Unit	SD-66610-01	
Loud Speaker Paging Trunk	J58829W	Loud Speaker Paging Trunk Unit	SD-65747-01	
Recorded Telephone Dictation Trunk	J58827C	Recorded Telephone Dictation Trunk Unit	SD-65788-01	
Manual Station Line		Station Line Circuit for Use in Nonmultiple Switchboard, With or Without Line Relay	SD-66082-01	Jack and lamp equipment furnished per J58830A, list 10. Order relays on miscellaneous basis, when required

2. SUPPLEMENTARY INFORMATION

J58824 (AA355.014) - Trunk Equipment - Dial PBXs  
 J58829 (AA355.020) - 756A PBX  
 J59018 (AA352.029) - 556A PBX Switchboard  
 J86464 (AA367.117) - Power Plant For 756A PBX Systems  
 Floor Plan Data - Section 6.2, Sheet 27

List 2 - Switching equipment for one 60-line 756A PBX with batteryless power plant, with six central office trunks, three attendant trunks, a set of drawings and circuit descriptions, and including two 30-foot plug-in house and feeder cables.

3. DRAWINGS

ED-65881-01 - 756A PBX Equipment  
 ED-66001-01 - Battery Module Equipment  
 ED-65733-01 - 556A PBX Equipment

	<u>Equip</u>	<u>Notes</u>
J58829A, L1 - Basic Left Module	1	
J58829A, L3 - Right Module for 60-line PBX	1	A
J58829A, L4 - House and Feeder Cable	1	
J58829A, L5 - House and Feeder Cable	1	
J58829A, L6 - Module and Slide Interconnecting Crown Cable	1	

4. EQUIPMENT

J58830A (AT&TCo Std) - 756A PBX Switching Equipment

List 1 - Switching Equipment for one 40-line 756A PBX with batteryless power plant, with six central office trunks, three attendant trunks, a set of drawings and circuit descriptions, and including two 30-foot plug-in house and feeder cables.

List 3 - One 756A PBX battery module per J58829U, List 1 together with 50-ampere-hour battery equipment per J86464A, List 2.

List 4 - One 556A manual PBX switchboard per J59018B, List 1, with two 30-foot feeder cables for switchboard, and equipped for 60 dial station lines, six manual central office trunks, and three attendant trunks and eight cord units, with wiring and plugs for seven additional cord units and four additional manual central office trunks, and including J58829A, List 7 supplementary cable, for 756A PBX. (See note B.)

	<u>Equip</u>	<u>Notes</u>
J58829A, L1 - Basic Left Module	1	
J58829A, L2 - Right Module For 40-line PBX	1	A
J58829A, L4 - House and Feeder Cable	1	
J58829A, L5 - House and Feeder Cable	1	
J58829A, L6 - Module and Slide Interconnecting Crown Cable	1	

List 5 - One cord unit with red cords, 4 feet 0 inch long.

List 6 - One cord unit with slate cords,  
4 feet 0 inch long.

List 7 - Dial and dial mounting, 10-pulse-  
per-second dial.

List 8 - Dial and dial mounting, 20-pulse-  
per-second dial.

List 9 - Material for handset hanger.

List 10 - Face equipment for 10 manual  
station lines.

Notes

A. The basic PBX is wired for ten central office trunks but is equipped with only six central office trunks. A maximum of four additional plug-in CO trunks per J58829M, List 2 and/or ringdown tie trunks per J58829T, List 1 may be provided.

B. Four additional self-contained plug-in manual central office trunks per J59013F, List 4 may be ordered separately and installed locally in the face of the 556A manual switchboard.

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