

**CENTREX TRUNKS
AND MISCELLANEOUS EQUIPMENT UNITS
EQUIPMENT DESIGN REQUIREMENTS
NO. 5 CROSSBAR SYSTEM**

1. GENERAL

Scope

1.01 This specification, together with the supplementary information listed herein, provides the equipment design requirements for the assembly, equipment, and circuits to be used in the engineering, manufacture, and installation of the relay rack units used in offices arranged for centrex service, with the exception of incoming, outgoing, and intraoffice trunks which are provided for in the specifications which normally apply to those trunks.

1.02 This specification is reissued:

- (a) To change J23069BC, List 1 to agree with SD-27937-01, Issue 2D.
- (b) To add list 3 to J23069AU which is required when trunk is used as a test attendant

trunk in accordance with SD-27851-01, Issue 5D.

- (c) To update General Note 5.02 Note 3 to agree with SD-27695-01, Issue 13D.

Description

1.03 The units listed herein are designed to be mounted on 23-inch relay rack bays. Each unit has terminal strips for terminating incoming leads and obtaining their battery and ground from the fuse panel at the bottom of the relay rack on which they are mounted.

1.04 All wiring for these units shall be provided as surface wiring. In addition the functional units which are combined to make up the position and position loop unit are interconnected by means of wiring run loose, in the shop, between units.

SUBDIVISIONS OF EQUIPMENT AND DETAILED INDEX

WECo J drawings listed should be ordered by referring to the prefix and base number and requesting the current dash (-) number.

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLATES PER UNIT
J23069A	A&M Only	Position and Position Loop Unit for Use With Phase II Centrex Service	J23069A-()	SD-27589-01	1	11

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLATES PER UNIT
J23069B	A&M Only	Unit for One Attendant Trunk for Use With 608A Switchboard for Phase II Centrex Service	J23069B-()	SD-27622-01	1	3
J23069C	A&M Only	Test Position and Position Loop Unit for Use With Phase II Centrex Service	J23069C-()	SD-27589-01	1	9
J23069F	A&M Only	Unit for One Dial Transfer Trunk for Use With Phases I and II Centrex Service	J23069F-()	SD-27668-01	1	5
J23069G	A&M Only	Unit for One Attendant Trunk for Use With Phase II Centrex Service	J23069G-()	SD-27582-01	1	6
J23069H	AT&TCo Std	Unit for Two Don't Answer Auxiliary Trunks Arranged for Centrex Service	J23069H-()	SD-27683-01	2	1
J23069J	AT&TCo Std	Unit for One Auxiliary Conference Control for Station Dial Conferencing for Use With Centrex Service	J23069J-()	SD-27684-01	1	3
J23069K	AT&TCo Std	Unit for One Auxiliary Conference Control for Station Dial Conferencing With Conference Assistant for Use With Centrex Service	J23069K-()	SD-27684-01	1	4
J23069L	AT&TCo Std	Phase III Centrex Attendant Trunk Arranged for Listed Directory Number and Transfer Calls	J23069L-()	SD-27689-01	1	4
J23069M	AT&TCo Std	Phase III Centrex Attendant Trunk Arranged for Dial "0" Calls	J23069M-()	SD-27689-01	1	4

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLATES PER UNIT
J23069N	AT&TCo Std	Night Answering Trunk Circuit for Use With Centrex Offices	J23069N-()	SD-27682-01	1	1
J23069P	AT&TCo Std	Unit for One Dial Transfer Trunk for Use With Phase III Centrex Service	J23069P-()	SD-27688-01	1	5
J23069R	AT&TCo Std	Position and Position Loop Unit for Use With Phase III Centrex	J23069R-()	SD-27695-01	1	9
J23069S	AT&TCo Std	Centrex Test Position and Position Loop Unit for Use With Phase III Centrex	J23069S-()	SD-27695-01	1	6
J23069AA	A&M Only	Position Signaling Unit	J23069AA-()	SD-27589-01	1	4
J23069AB	A&M Only	Position Control Unit	J23069AB-()	SD-27589-01	1	4
J23069AC	A&M Only	Position Loop Unit	J23069AC-()	SD-27589-01	2	1
J23069AD	A&M Only	Position Loop Test Unit	J23069AD-()	SD-27589-01	1	1
J23069AE	AT&TCo Std	Position Loop Unit for Use With Phase III Centrex	J23069AE-()	SD-27695-01	6	4
J23069AF	AT&TCo Std	Position Control Unit for Use With Phase III Centrex	J23069AF-()	SD-27695-01	1	5
J23069AG	AT&TCo Special	Unit for One Atten- dant Trunk Circuit- Dial Zero Calls — For Use With Switchboard No. 608A, Office Ar- ranged for Phase III Centrex Service	J23069AG-()	SD-27721-01	1	1
J23069AH	AT&TCo Special	Unit for One Atten- dant Trunk-Transfer and Listed Directory Number Calls — for Use With 608A Switch- board — Office Ar- ranged for Phase III Centrex Service	J23069AH-()	SD-27722-01	1	4

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLATES PER UNIT	
J23069AJ	A&M Only	Supplementary Unit for Two Conference Control Circuits — Phase II or Phase III Centrex	J23069AJ-()	SD-27591-01	2	1	○
J23069AK	AT&TCo Std	Conference Control Unit for Phase II or Phase III Centrex Service	J23069AK-()	SD-27591-01	1	4	○
J23069AL	A&M Only	Auxiliary Trunk Ar- ranged for Phase I Centrex Service Ex- clusion and/or Atten- dant Lockout	J23069AL-()	SD-26270-01	1	1	○
J23069AM	AT&TCo Std	Unit for Two Special Services Console Con- nectors for Centrex Service	J23069AM-()	SD-27800-01	2	3	
J23069AN	A&M Only	Lamp and Alarm Cut- off Control Unit for Calls-Waiting Signal Ckt — Phase I Centrex	J23069AN-()	SD-26271-01	1	1	○
J23069AP	A&M Only	Audible Signal to Tele- phone Console for Calls-Waiting Signal Ckt — Phase I Centrex	J23069AP-()	SD-26271-01	2	1	
J23069AQ	AT&TCo Std	Calls-Waiting Signal Unit Phase II, Phase III Centrex	J23069AQ-()	SD-27653-01	2	3	
J23069AR	AT&TCo Std	Line-Busy Verifica- tion Trunk Unit	J23069AR-()	SD-27812-01	1	3	○
J23069AS	A&M Only	Auxiliary Unit for Position Circuit for Phase I Centrex	J23069AS-()	SD-26273-01	1	1	○
J23069AT	AT&TCo Std	Auxiliary Position con- trol Unit for Use Only With Phase III Centrex Service Position	J23069AT-()	SD-27695-01	1	1	○
J23069AU	AT&TCo Special	Attendant Trunk Unit — Off-Net Access Control- Office Arranged for Centrex Service	J23069AU-()	SD-27851-01	1	3	○

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLATES PER UNIT
J23069AW	AT&TCo Special	Attendant Access Trunk for Off-Net Access Control With Attendant Console — Office Arranged for Centrex Service	J23069AW-()	SD-27857-01	1	3
J23069AY	AT&TCo Special	Attendant Trunk Unit for Remote Attendant — E&M Lead Supervision for Use in CCSA Offices Arranged for Off-Net Access	J23069AY-()	SD-27838-01	1	3
J23069AZ	AT&TCo Std	Unit for One Remote Line Circuit for Off-Net Access Control - Office Arranged for Centrex Service	J23069AZ-()	SD-27858-01	1	3
J23069BA	AT&TCo Std	4-Wire Attendant Trunk Unit for Remote Attendant — E&M Lead Supervision for Use in CCSA Offices Arranged for Off-Net Access	J23069BA-()	SD-27844-01	1	4
J23069BB	AT&TCo Std	Unit for One 2-Way Trunk for Access Be- tween Centrex and Autovon Incoming Ser- vice — For Use With 608A Switchboard	J23069BB-()	SD-27865-01	1	7
J23069BC	AT&TCo Std	Unit for One Atten- dant Access Trunk for Use With Phase II or Phase III Centrex Service	J23069BC-()	SD-27937-01	1	3
J23069BG	AT&TCo Std	Unit for One 2-Way Trunk for Access Be- tween Centrex and Autovon Incoming Ser- vice — For Use With Telephone Console	J23069BG-()	SD-27865-01	1	7
J23069BH	AT&TCo Std	Auxiliary Unit for Dial Transfer Trunk for Use With Phase III Centrex Service	J23069BH-()	SD-27688-01	3	1

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLATES PER UNIT	
J23069BJ	AT&TCo Std	Unit for One Line Circuit for Cen- tralized Attendant Operation — Reverse Battery Supervision — Phase III Centrex	J23069BJ- ()	SD-27896-01	1	3	
J23069BK	AT&TCo Std	Auxiliary Unit for Position and Posi- tion Loop Unit for Use With Phase III Centrex	J23069BK- ()	SD-27695-01	2	1	
J23069BM	AT&TCo Std	Unit for One Line Circuit for Cen- tralized Attendant Operation — E & M Lead Supervision — Phase III Centrex	J23069BM- ()	SD-27945-01	1	3	
J23069BD							
J23069BE	Reserved						
J23069BF							
H599-111	A&M Only	Attendant Trunk Unit Arranged for Phase I Centrex	H599-111	SD-26270-01	1	4	
H599-138	A&M Only	Attendant Access Trunk Unit for 2- Way Operating for Use With Phase I Centrex	H599-138	SD-26278-01	2	3	
H599-147	A&M Only	Position Loop Circuit Office Arranged for Phase I Centrex Ser- vice	H599-147	SD-26272-01	1	1	
H599-200	A&M Only	Position Circuit Arranged for Phase I Centrex	H599-200	SD-26273-01	1	5	
H599-201	A&M Only	Assembly for One Position Oscillator	H599-201	SD-26273-01	1	—	
H599-206	A&M Only	Conference, Confer- ence Control Circuit Unit Arranged for Phase I Centrex	H599-206	SD-26279-01	2	5	

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLATES PER UNIT
H599-218	A&M Only	Attendant Access Trunk with Advanced Control for 2-Way Operation Arranged for Use With Phase I Centrex Service	H599-218	SD-26278-02	2	3
H599-228	A&M Only	Calls-Waiting Signal Ckt Arranged for Phase I Centrex	H599-228	SD-26271-01	1	1
H599-230	A&M Only	Attendant Trunk for Use With 608A Switchboard Arranged for Phase I Centrex	H599-230	SD-26503-01	1	2
H599-241	A&M Only	Balancing Network Unit for Offices Arranged for Phase I Centrex Service	H599-241	SD-26268-01	12	1

Circuit Schematic Index

CIRCUIT DRAWING	J23069 EQUIP CODE	CIRCUIT DRAWING	J23069 EQUIP CODE
		SD-27668-01	F
SD-26268-01	H599-241	SD-27682-01	N
SD-26270-01	AL	SD-27683-01	H
	H599-111	SD-27684-01	J,K
	H599-147	SD-27688-01	P,BH
SD-26271-01	AN,AP	SD-27689-01	L,M
	H599-228	SD-27695-01	R,S,AE,AF,AT
SD-26273-01	AS	SD-27721-01	AG
	H599-200	SD-27722-01	AH
	H599-201	SD-27800-01	AM
SD-26278-01	H599-138	SD-27812-01	AR
SD-26278-02	H599-218	SD-27838-01	AY
SD-26279-01	H599-206	SD-27844-01	BA
SD-26503-01	H599-230	SD-27851-01	AU
SD-27582-01	G	SD-27857-01	AW
SD-27583-01	E	SD-27858-01	AZ
SD-27589-01	A,C,AA,AB,	SD-27865-01	BB,BG
	AC,AD	SD-27896-01	BJ
SD-27591-01	AJ,AK	SD-27695-01	BK
SD-27622-01	B	SD-27945-01	BM
SD-27653-01	AQ	SD-27937-01	BC

2. SUPPLEMENTARY INFORMATION

819-000-000—No. 5 Crossbar System Index
 800-600-000—Checking List—General Equipment Requirements
 J23064—819-601-150—Relay Rack Frames for Trunks and Relay Equipments
 J29259—819-005-150—General Outline—No. 5 Crossbar System
 J29261—819-600-150—Trunk Tables Showing No. 5 Crossbar Trunk Equipments Arranged by Functions and Features
 J99294—801-025-160—Transistorized Conference Amplifiers and Equipment for Four or Six Simultaneous Connections Common Systems

3. DRAWINGS

For additional drawings forming a part of this specification see listings under Subdivisions of Equipment and Detailed Index.

Keysheets

SD-25760-01—No. 5 Crossbar System
 SD-25760-02—No. 5 Crossbar System—Current Drain Data Sheet

4. EQUIPMENT

J23069A—A&M Only—Position & Position Loop Unit for Use With Phase II Centrex Service

Equipment—J23069A-()

List 1—Assembly, wiring, and equipment for one centrex position and position loop unit arranged for one position and four loops.

	WIRE	EQUIP	NOTES
Pos Sig Unit J23069AA, L1		1	
Pos Cont Unit J23069AB, L1		1	
Pos Loop Unit J23069AC, L1		2	
Pos & Pos Lp Ckt, SD-27589-01:			
Sig Ckt, Fig. 1	1		B,C
Cont Ckt, Fig. 2	1		B,C
Loop Ckt, Fig. 3	2		B,C

List 2—Assembly, wiring, and equipment required in addition to list 1 for a unit of two additional position loop circuits.

WIRE EQUIP NOTES

Pos Loop Unit J23069AC, L1		1	
Pos & Pos Lp Ckt, SD-27589-01.			
Loop Ckt, Fig. 3	1		B

List 3—Equipment and wiring required in addition to list 1 when busy verification is required.

WIRE EQUIP NOTES

Pos Cont Unit J23069AB, L2	0	1	
Pos & Pos Lp Ckt, SD-27589-01:			
Cont Ckt, A Option	1	0	

Notes

- A. Reserved.
- B. Wiring per SD-27589-01, Fig. 1, 2, and 3 shall include all wiring required for connections between units of the same position and position loop units and shall be run from apparatus terminal to apparatus terminal on rear of units through plastic retaining clips provided for this purpose.
- C. Job records need not be maintained for P, R, V, or X options.

J23069B—A&M Only—Unit for One Attendant Trunk for Use With 608A Switchboard for Phase II Centrex Service

Equipment—J23069B-()

List 1—Assembly, wiring, and equipment for one attendant trunk for use with 608A switchboard in accordance with SD-27622-01, Fig. 1.

List 2—Equipment and wiring required in addition to list 1 when line link pulsing in customer group is required in accordance with SD-27622-01, Fig. 2.

Notes

- A. Reserved.
- B. Job records need not be maintained for Z option.
- C. Wiring M required in addition to list 1 when list 2 is not specified.

J23069C—A&M Only—Test Position and Position Loop Unit for Use With Phase II Centrex Service

Equipment—J23069C-()

List 1—Assembly, wiring, and equipment for one centrex test position and position loop unit. (See Note 5.02.)

	WIRE	EQUIP	NOTES
Pos Sig Unit J23069AA, L1		1	
Pos Cont Unit J23069AB, L1		1	
Pos Loop Unit J23069AD, L1		1	
Pos & Pos Lp Ckt, SD-27589-01:			
Sig Ckt, Fig. 1 With T Opt	1		B,C
Cont Ckt, Fig. 2 With T Opt	1		B,C
Loop Ckt, Fig. 6	1		B,C

List 2—Equipment and wiring required in addition to list 1 when busy verification is required.

	WIRE	EQUIP	NOTES
Pos Cont Unit J23069AB, L2	0	1	
Pos & Pos Lp Ckt, SD-27589-01:			
Cont Ckt, A Option	1	0	

Notes

- A. Reserved.
- B. Wiring per SD-27589-01, Fig. 1, 2, and 6 and T option shall include all wiring required for connections between units of the test position and position loop unit and shall be run from apparatus terminal to apparatus terminal on rear of units through plastic retaining clips provided for this purpose.
- C. Job records need not be maintained for S, V, W, or Y options.

J23069F—A&M Only—Unit for One Dial Transfer Trunk for Use With Phase I and Phase II Centrex Service

Equipment—J23069F-()

List 1—Assembly, wiring, and equipment for one dial transfer trunk in accordance with SD-27668-01, Fig. 1.

J23069G—A&M Only—Unit for One Attendant Trunk for Use with Phase II Centrex Service

Equipment—J23069G-()

List 1—Assembly, wiring, and equipment for one centrex attendant trunk circuit in accordance with SD-27582-01, Fig. 1.

List 2—A&M Only—Equipment and wiring required in addition to list 1 when pad control for centrex tie trunks is provided in accordance with SD-27582-01, Fig. 2.

List 3—Equipment and wiring required in addition to list 1 when universal pad control is provided in accordance with SD-27582-01, Fig. 3.

Notes

- A. Reserved.
- B. Job records need be maintained for T, W, X, Y, and Z options.

J23069H—AT&T Co Std—Unit for Two Don't Answer Auxiliary Trunks Arranged for Centrex Service

Equipment—J23069H-()

List 1—Assembly, wiring, and equipment for two don't answer transfer auxiliary trunk circuits in accordance with SD-27683-01, two Fig. 1.

J23069J—AT&T Co Std—Unit for One Auxiliary Conference Control for Station Dial Conferencing for Use with Centrex Service

Equipment—J23069J-()

List 2—Equipment and wiring required in addition to list 1 or 3 when conference attendant with console is provided in accordance with SD-27684-01, Y option.

List 3—Assembly, wiring, and equipment for one centrex auxiliary conference control circuit in accordance with SD-27684-01, Fig. 1 and SD-94820-01, two Fig. 2.

J23069K—AT&T Co Std—Unit for One Auxiliary Conference Control for Station Dial Conferencing With Conference Assistant for Use With Centrex Service

Equipment—J23069K-()

List 2—Assembly, wiring, and equipment for one centrex auxiliary conference control circuit in accordance with SD-27684-01, Fig. 1 and 2 and Z option and SD-94820-01, two Fig. 2.

Notes

- A. Reserved.
- B. Job records need not be maintained for X option.

J23069L—AT&TCo Std—Phase III Centrex Attendant Trunk Arranged for Listed Directory Number and Transfer Calls

Equipment—J23069L-()

List 1—Assembly, wiring, and equipment for one phase III centrex attendant trunk arranged for listed directory number and transfer calls in accordance with SD-27689-01, Fig. 1 and 2 and SD-94820-01, Fig. 2.

Notes

- A. Reserved.
- B. Job records need not be maintained for Z, Y, W, and V options.

J23069M—AT&TCo Std—Phase III Centrex Attendant Trunk Arranged for Dial "0" Calls

Equipment—J23069M-()

List 1—Assembly, wiring, and equipment for one phase III centrex attendant trunk arranged for dial "0" calls in accordance with SD-27689-01, Fig. 1 and 3 and SD-94820-01, Fig. 2.

Notes

- A. Reserved.
- B. Job records need not be maintained for Z, X, Y, W, and V options.

J23069N—AT&TCo Std—Night Answering Trunk Circuit for Use With Centrex Offices

Equipment—J23069N-()

List 1—Assembly, wiring, and equipment for one night answering trunk for use with centrex offices in accordance with SD-27682-01, Fig. 1.

Note

- A. Reserved.

J23069P—AT&TCo Std—Unit for One Dial Transfer Trunk for Use With Phase III Centrex Service

Equipment—J23069P-()

List 1—Assembly, wiring, and equipment for one dial transfer trunk circuit in accordance with SD-27688-01, Fig. 1 and SD-94820-01, two Fig. 2.

Notes

- A. In addition there are options requiring wiring only as follows:
 - 1. Wiring required in addition to list 1 when this unit is used in a wideband office per SD-27688-01, H option.
- B. Reserved.
- C. J99294B, List 1 is required when this unit is ordered and should be mounted on the same frame.
- D. One auxiliary unit, J99294B, List 1 is required for each three J23069P to provide elimination of double timing on disconnect on an attendant transfer class call in accordance with SD-27688-01, J option.

J23069R—AT&TCo Std—Position and Position Loop Unit for Use With Phase III Centrex

Equipment—J23069R-()

List 1—Assembly, wiring, and equipment for one centrex position and position loop unit arranged for one position and six loops in accordance with list 1 of J23069AE and J23069AF. (See Notes A and B.)

List 2—Equipment and wiring required in addition to list 1 when unit is arranged for night closing in accordance with J23069AF, List 2.

List 3—Equipment and wiring required in addition to list 1 when lamp repeating circuit is not provided in accordance with J23069AF, List 3.

Notes

A. Conference amplifier, J99264B, List 1, is required with this unit and should be mounted on the same frame.

B. Wiring shall include all wiring required for connections between units and shall run from apparatus terminals to apparatus terminals on rear of units through retaining clips provided for this purpose.

J23069S—AT&TCO Std—Centrex Test Position and Position Loop Unit for Use With Phase III Centrex

Equipment—J23069S-()

List 1—Assembly, equipment, and wiring for one centrex test position and position loop unit in accordance with SD-27695-01, Fig. 1, 3, 5, 8, T and V options.

Note

A. J99294B, List 1 is required when this unit is ordered and should be mounted on the same frame.

J23069AA—A&M Only—Position Signaling Unit

Equipment—J23069AA-()

List 1—Assembly, wiring, and equipment for one position control unit per SD-27589-01, Fig. 1.

J23069AB—A&M Only—Position Control Unit

Equipment—J23069AB-()

List 1—Assembly, wiring, and equipment for one position control unit per SD-27589-01, Fig. 2.

List 2—Equipment and wiring required in addition to list 1 when busy verification is required in accordance with SD-27589-01, A option.

J23069AC—A&M Only—Position Loop Unit

Equipment—J23069AC-()

List 1—Assembly, wiring, and equipment for one unit of two position loop circuits per SD-27589-01, Fig. 3.

J23069AD—A&M Only—Position Loop Test Unit

Equipment—J23069AD-()

List 1—Assembly, wiring, and equipment for one position loop test unit per SD-27589-01, Fig. 6.

J23069AE—AT&TCO Std—Position Loop Unit for Use With Phase III Centrex

Equipment—J23069AE-()

List 1—Assembly, wiring, and equipment for one unit of six position loop circuits, in accordance with SD-27695-01, Fig. 2 with Y and Z options. (See Note A.)

Note

A. Job records need not be maintained on Y and Z options.

J23069AF—AT&TCO Std—Position Control Unit for Use With Phase III Centrex

Equipment—J23069AF-()

List 1—Assembly, equipment, and wiring for one position control unit in accordance with SD-27695-01, Fig. 1 and six Fig. 5 with W and X options. (See Note A.)

List 2—Equipment and wiring required in addition to list 1, in accordance with SD-27695-01, Fig. 1, V option only.

List 3—Equipment and wiring required in addition to list 1 when lamp repeating circuit is not provided, in accordance with SD-27695-01, S option.

Notes

A. In addition, there are options involving wiring only as follows:

1. Wiring required in addition to list 1 when lamp repeating circuit is provided in accordance with SD-27695-01, T option.

B. Job records need not be maintained on W and X options.

- C. Connection to one circuit of auxiliary unit J23069BK-() is required for each J23069AF-() when centralized attendant operation is required in accordance with SD-27695-01, Fig. 7.

J23069AG—AT&TCo Special—Unit for One Attendant Trunk Circuit—Dial Zero Calls—For Use With Switchboard No. 608A, Office Arranged for Phase III Centrex Service

Equipment—J23069AG-()

- List 1**—Assembly, wiring, and equipment for one attendant trunk circuit—dial zero calls—for use with switchboard No. 608A—office arranged for phase III centrex service in accordance with SD-27721-01, Fig. 1.

Notes

- A. Reserved.
- B. Office records need not be maintained for Z option.

J23069AH—AT&TCo Special—Unit for One Attendant Trunk Circuit—Transfer and Listed Directory Number Calls—For Use With Switchboard No. 608A—Office Arranged for Phase III Centrex Service

Equipment—J23069AH-()

- List 1**—Assembly, wiring, and equipment for one attendant trunk circuit transfer and listed directory number calls for use with switchboard No. 608A—office arranged for phase III centrex service in accordance with SD-27722-01, Fig. 1.

Notes

- A. Reserved.
- B. Office records need not be maintained for X and Z options.

J23069AJ—A&M Only—Supplementary Unit for Two Conference Control Circuits Arranged for Phase II or III Centrex to Provide Transmission Test Facilities for the Conference Circuit, and

Control of the Make-Busy and Test Features of the Conference Control Circuit, at the Master Test Frame Jack, Lamp, and Key Circuit

Equipment—J23069AJ-()

- List 1**—Assembly, equipment, and wiring required for two circuits in accordance with SD-27591-01, two R options.

Note

- A. This unit is required with J23069D to provide transmission test facilities for the conference circuit SD-96595-01 and control of the make-busy and test features of the conference control circuit at the master test frame jack, lamp, and key circuit.

J23069AK—AT&TCo Std—Conference Control Unit for Phase II or III Centrex Service

Equipment—J23069AK-()

- List 1**—Assembly, equipment, and wiring for one conference control unit arranged for attendant and five conferees per SD-27591-01, Fig. 1.

- List 2**—Equipment and wiring required in addition to list 1 when originating service is station controlled, and when terminating service is not required, per SD-27591-01, X option.

- List 3**—Equipment and wiring required in addition to list 1 when originating service is station controlled and terminating service attendant controlled (console) per SD-27591-01, Y option. (See Note C.)

- List 4**—Equipment and wiring required in addition to list 1 when originating service is station controlled, and with terminating service assistant controlled (telephone set), per SD-27591-01, Z option. (See Note D.)

Notes

- A. In addition, there are options involving wiring only as follows:

1. Wiring required in addition to list 1 when originating and terminating services are attendant controlled and the special services console connector is not provided, per SD-27591-01, W option.

2. Wiring required in addition to list 1 when originating and terminating services are attendant controlled and the special services console connector is provided, per SD-27591-01, N option.

- B. Office records need not be maintained for M option.
- C. When list 3 is provided, the auxiliary conference control unit, J23069J, must be provided.
- D. When list 4 is provided, the auxiliary conference control unit, J23069K, must be provided.

J23069AL—A&M Only—Unit for One Auxiliary Attendant Trunk for Attendant Controlled Exclusion on STO Keyed Calls or Attendant Lockout Phase I Centrex

Equipment—J23069AL-()

List 1—Assembly and common equipment of one auxiliary attendant trunk.

List 2—Wiring and equipment required in addition to list 1 when source or destination exclusion under control of attendant is required in accordance with SD-26270-01, Fig. 5.

List 3—Wiring and equipment required in addition to list 1 when attendant lockout is required in accordance with SD-26270-01, Fig. 6.

Notes

- A. Reserved.
- B. Office records need not be maintained for ZL option.
- C. This unit is an accessory for H599-111 and is required when the latter is used for exclusion on STO keyed calls and/or attendant lockout.

J23069AM—AT&TCo Std—Unit for Two Special Services Console Connectors for Centrex Service

Equipment—J23069AM-()

List 1—Assembly, wiring, and equipment for a unit equipped with two special service console connectors for centrex services in accordance with SD-27800-01, two Fig. 1.

Notes

- A. Reserved
- B. Job records need not be maintained for T or V options.

J23069AN—A&M Only—Lamp and Alarm Cutoff Control Unit for Calls-Waiting Signal Circuit Phase I Centrex

Equipment—J23069AN-()

List 1—Assembly, wiring, and equipment for one central office lamp and alarm cutoff control circuit in accordance with SD-26271-01, Fig. 2.

J23069AP—A&M Only—Audible Signal to Telephone Console Unit for Calls-Waiting Signal Circuit Phase I Centrex

Equipment—J23069AP-()

List 1—Assembly, wiring, and equipment for two audible signals to telephone console circuits in accordance with SD-26271-01, two Fig. 3.

J23069AQ—AT&TCo Std—Calls-Waiting Signal Unit Phase II, Phase III Centrex

Equipment—J23069AQ-()

List 1—Assembly, equipment, and wiring for one calls-waiting signal unit phase II, phase III, centrex equipped with two calls-waiting signal circuits, per two SD-27653-01, Fig. 1 and two SD-94820-01, Fig. 2.

List 2—Wiring and apparatus required in addition to list 1 for providing an audible signal to the telephone console per two SD-27653-01, X option.

J23069AR—AT&TCo Std—Line-Busy Verification Trunk Unit

Equipment—J23069AR-()

List 1—Assembly, equipment, and wiring for one line-busy verification trunk in accordance with SD-27812-01, Fig. 1 and SD-94820-01, Fig. 3.

Notes

- A. Reserved.

- B. Job records need not be maintained for Z option.

J23069AS—A&M Only—Auxiliary Unit for Position Circuit for Phase I Centrex

Equipment—J23069AS-()

List 1—Assembly and common equipment for one auxiliary position unit.

List 2—Equipment and wiring required in addition to list 1 when busy verification is required per SD-26273-01, Fig. 4 and ZL option.

List 3—Equipment and wiring required in addition to list 1 when exclusion on STO keyed attendant trunk calls is required per SD-26273-01, Fig. 5 and ZO option.

Note

- A. Reserved.

J23069AT—AT&TCo Std—Auxiliary Position Control Unit for Use Only with Phase III Centrex Service Position

Equipment—J23069AT-()

List 1—Assembly and equipment for one auxiliary position control unit.

List 2—Equipment and wiring required in addition to list 1 for busy verification in accordance with SD-27695-01, Fig. 6.

List 3—Equipment and wiring required in addition to list 1 when attendant trunk circuit, switch terminated-key dedicated, is provided in accordance with SD-27695-01, Fig. 8.

Notes

- A. Reserved.
- B. When list 2 is furnished test telephone console must be equipped with a D75B-61 cord.

J23069AU—AT&TCo Special—Attendant Trunk Unit—Off-Net Access Control—Office Arranged for Centrex Service

Equipment—J23069AU-()

List 1—Assembly, equipment, and wiring for one attendant trunk unit for off-net access control in accordance with SD-27851-01, Fig. 1. (See Note B.)

List 2—AT&TCo Special—Equipment and wiring required in addition to list 1 when use with a remote line link circuit is required in accordance with SD-27851-01, S option.

List 3—Equipment and wiring required in addition to list 1 when trunk is used as a test attendant trunk in accordance with SD-27851-01, Z option.

Notes

- A. In addition, there are options involving wiring only as follows:

2. Wiring required in addition to list 1 when list 2 is not specified in accordance with SD-27851-01, R option.

3. AT&TCo Special—Wiring required in addition to list 1 when use as a test attendant trunk is not required in accordance with SD-27851-01, Y option.

- B. This trunk may be used as either an attendant trunk for use with a 608A switchboard or as a test attendant trunk for use with the master test frame trunk test circuit. When used as an attendant trunk, the rating is AT&TCo Special. When used as a test attendant trunk, the rating is AT&TCo standard.

J23069AW—AT&TCo Special—Attendant Access Trunk for Off-Net Access Control With Attendant Console-Office Arranged for Centrex Service

Equipment—J23069AW-()

List 1—Assembly, equipment, and wiring required for one attendant access trunk circuit for off-net access control in accordance with SD-27857-01, Fig. 1, and SD-94820-01, one Fig. 2.

List 2—Equipment and wiring required in addition to list 1 to provide for phase III centrex operation in accordance with SD-27857-01, part of Fig. 1, T option.

List 3—Equipment and wiring required in addition to list 1 when use with remote line circuit is required per SD-27857-01, R option.

Note

A. In addition, there are options involving wiring only as follows:

1. Wiring required in addition to list 1 to provide for phase I and II centrex operation in accordance with SD-27857-01, S option.
2. Wiring required in addition to list 1 when use with remote line circuit is not required per SD-27857-01, X option.

J23069AY—AT&TCo Special—Attendant Trunk Unit for Remote Attendant—E&M Lead Supervision—For Use in CCSA Offices Arranged for Off-Net Access

Equipment—J23069AY-()

List 1—Assembly, equipment, and wiring for one attendant trunk unit per SD-27838-01, Fig. 1 and SD-94820-01, one Fig. 2.

List 2—Equipment and wiring for SD-27838-01, Fig. 2, required in addition to list 1 when 17E testboard is provided.

Notes

- A. Reserved.
- B. Job records need not be maintained for Y option.
- C. This unit occupies the space of four 2-inch mounting plates. The bottom plate is not provided and is reserved for future expansion.

J23069AZ—AT&TCo Std—Unit for One Remote Line Circuit for Off-Net Access Control—Office Arranged for Centrex Service

Equipment—J23069AZ-()

List 1—Assembly, equipment, and wiring for one remote line circuit for off-net access control, office arranged for centrex service, per SD-27858-01, Fig. 1. (List 3 or wiring per Note A.1 also required.)

List 2—Equipment and wiring required in addition to list 1 for first remote line circuit equipped on a relay rack frame per SD-27858-01, Fig. 2.

List 3—Equipment and wiring required in addition to list 1 when remote line is not directly wired to an attendant trunk (off-net access) per SD-27858-01, Z option.

Notes

A. In addition, there are options requiring wiring only as follows:

1. Wiring required in addition to list 1 when remote line is directly wired to an attendant trunk (off-net access) per SD-27858-01, Y option.

J23069BA—AT&TCo Std—4-Wire Attendant Trunk Unit for Remote Attendant—E&M Lead Supervision—For Use in CCSA Offices Arranged for Off-Net Access

Equipment—J23069BA-()

List 1—Assembly, equipment, and wiring for one 4-wire attendant trunk unit per SD-27844-01, Fig. 1.

Notes

A. In addition, there are options involving wiring only as follows:

1. Wiring required in addition to list 1 when trunk is arranged for service to a remote PBX or a No. 5 crossbar office in accordance with SD-27844-01, Y option.
2. Wiring required in addition to list 1 when trunk is arranged as a test attendant trunk in accordance with SD-27844-01, X option.

B. Job records need not be maintained for Z option.

J23069BB—AT&TCo Std—Unit for One 2-way Trunk for Access Between Centrex and Autovon Incoming Service—For Use With 608A Switchboard

Equipment—J23069BB-()

List 1—Assembly, equipment, and wiring for one trunk, per SD-27865-01, Fig. 1, 4, and X option, and SD-94820-01, three Fig. 2 and one Fig. 3.

List 2—Equipment and wiring required in addition to list 1 to provide precedence network in-dialing per SD-27865-01, Fig. 2 and Z option.

List 3—Equipment and wiring required in addition to list 1 when list 2 is not provided per SD-27865-01, Fig. 3 and Y option.

Notes

A. Reserved.

B. Office records need not be maintained for Q, S, T, and V options.

J23069BC—AT&TCo Std—Unit for One Attendant Access Trunk for Use With Phase II or Phase III Centrex Service

Equipment—J23069BC-()

List 1—Assembly, wiring, and equipment for one attendant access trunk in accordance with SD-27937-01, Fig. 1 and Fig. 3.

Note

A. Reserved.

J23069BG—AT&TCo Std—Unit for One 2-way Trunk for Access Between Centrex and Autovon Incoming Service—For Use With Telephone Console

Equipment—J23069BG-()

List 1—Assembly, equipment, and wiring for one trunk per SD-27865-01, Fig. 1, 5, and W options and SD-94820-01, three Fig. 2 and Fig. 3.

List 2—Equipment and wiring required in addition to list 1 to provide precedence network in-dialing per SD-27865-01, Fig. 2 and Z option.

List 3—Equipment and wiring required in addition to list 1 when list 2 is not provided per SD-27865-01, Fig. 3 and Y option.

List 4—Equipment and wiring required in addition to list 1 for the first of 24 trunk units in the same trunk group per SD-27865-01, Fig. 6.

Notes

A. Reserved.

B. Office records need not be maintained for Q, S, T, and V options.

J23069BD

J23069BE—Reserved

J23069BF

J23069BH—AT&TCo Std—Auxiliary Unit for Dial Transfer Trunk for Use With Phase III Centrex Service

Equipment—J23069BH-()

List 1—Assembly, equipment, and wiring for one auxiliary unit associated with three dial transfer trunks in accordance with SD-27688-01, J option.

Notes

A. Reserved.

B. This unit is required in addition to each three dial transfer trunks, J23069P.

J23069BJ—AT&TCo Std—Unit for One Line Circuit for Centralized Attendant Operation—Reverse Battery Supervision Phase III Centrex

Equipment—J23069BJ-()

List 1—Assembly, equipment, and wiring for one phase III centrex line unit for centralized attendant operation in accordance with SD-27896-01, Fig. 1 and SD-94820-01, Fig. 2.

J23069BK—AT&TCo Std—Auxiliary Unit for Position and Position Loop Unit for Use With Phase III Centrex

Equipment—J23069BK-()

List 1—Assembly, equipment, and wiring for one auxiliary unit associated with two position and position loop units when centralized attendant operation is required in accordance with SD-27695-01, Fig. 7.

Notes

A. Reserved.

B. This unit is required in addition to each two position and position loop units, J23069R.

***J23069BM—AT&T Co Std—Unit for One Line
Circuit for Centralized Attendant
Operation—E&M Lead Supervision
Phase III Centrex***

Equipment—J23069BM-()

List 1—Assembly, equipment, and wiring for one phase III centrex line unit for centralized attendant operation with E and M lead supervision in accordance with SD-27945-01, Fig. 1 and SD-94820-01, Fig. 2.

***H599-111—A&M Only—Attendant Trunk Unit
Arranged for Phase I Centrex***

Equipment—H599-111

List 1—Assembly, equipment, and wiring for one trunk per SD-26270-01, one Fig. 1.

List 2—Equipment and wiring required in addition to list 1 when pad control for switched service network systems is provided in accordance with SD-26270-01, Fig. 4.

Notes

A. In addition, there are options involving wiring and apparatus as follows:

1. Wiring and apparatus required in addition to list 1 when switched loop operation is provided with the 701B trunk and position finder and call distribution circuit in accordance with SD-26270-01, Fig. 1, ZA option.
2. Wiring and apparatus required in addition to list 1 when switched loop operation is provided by the centrex position link circuit, in accordance with SD-26270-01, Fig. 2.

B. In addition, there are options involving wiring only as follows:

1. Wiring required in addition to list 1 to prevent a false audible signal at the position circuit, on fixed loop operation, when the toll ringback feature is tested, in accordance with SD-26270-01, T option.
2. Wiring required in addition to list 1 when pad control for centrex tie trunks is not provided in accordance with SD-26270-01, ZB option.

3. Wiring required in addition to list 1 when pad control for switched service network systems is not provided in accordance with SD-26270-01, ZI option.
4. Wiring required in addition to list 1 when fixed loop operation is required in accordance with SD-26270-01, ZI option.
5. Wiring required in addition to list 1 when exclusion on STO keyed calls is not provided in accordance with SD-26270-01, ZL option.
6. Wiring required in addition to list 1 when attendant lockout is not provided in accordance with SD-26270-01, ZK option.

C. Job records need not be maintained for A, K, M, N, Q, Y, and Z options.

***H599-138—A&M Only—Attendant Access Trunk
Unit for 2-Way Operation for Use
With Phase I Centrex***

Equipment—H599-138

List 1—Assembly, equipment, and wiring for two attendant access trunks per SD-26278-01, two Fig. 1.

A. Reserved.

***H599-147—A&M Only—Position Loop Circuit
Office Arranged for Phase I Centrex
Service***

Equipment—H599-147

List 1—Assembly, wiring, and equipment required for one position loop circuit in accordance with SD-26272-01, Fig. 1.

List 3—Wiring and apparatus required in addition to list 1 when position is arranged for switched loop operation using centrex position link circuit per SD-26272-01, Fig. 3.

List 4—Wiring and apparatus required in addition to list 1 when position is arranged for switched loop operation using the 701B trunk and position finder circuit per SD-26272-01, Fig. 3 and 4.

Notes

A. Reserved.

- B. Job records need not be maintained for Y, Z, Q, and R options.

H599-200—A&M Only—Position Circuit Arranged for Phase I Centrex

Equipment—H599-200

List 1—Assembly, wiring, and equipment for one position circuit per SD-26273-01, Fig. 1.

List 2—Wiring and equipment required in addition to list 1 for operation with night closing and make-busy circuit per SD-26273-01, Fig. 2.

Notes

- A. In addition, there are options involving wiring and apparatus as follows:

1. Wiring and apparatus required in addition to list 2 when audible dial tone recognition on tie line calls is required, in accordance with SD-26273-01, Fig. 3.

- B. In addition, there are options involving wiring only, as follows:

1. Wiring required in addition to list 1 when the position circuit is arranged for fixed loop operation per SD-26273-01, Fig. 1, Y option.
2. Wiring required in addition to list 1 when the position circuit is arranged for fixed loop operation per SD-26273-01, Fig. 1, Z option.
3. Wiring required in addition to list 1 when automatic outpulsing of office identifying digit is provided per SD-26273-01, W option.
4. Wiring required in addition to list 1 when automatic outpulsing of office identifying digit is not provided per SD-26273-02, X option.

- C. Job records need not be maintained for A, R, S, T, V, W, X, Y, Z, ZA, and ZG option.

- D. For position busy verification and exclusion on STO calls see J23069AS.

H599-201—A&M Only—Assembly for One Position Oscillator

Equipment—H599-201

List 1—Assembly, wiring, and equipment for one position oscillator in accordance with SD-26273-01, part of Fig. 1.

Note

- A. Reserved.

H599-206—A&M Only—Conference, Conference Control Circuit Unit Arranged for Phase I Centrex

Equipment—H599-206

List 2—Assembly, equipment, and wiring for two conference control circuits in accordance with SD-26279-01, two Fig. 1.

List 3—A&M Only—Assembly, equipment, and wiring required in addition to list 1 when conference circuit is passive in accordance with SD-26279-01, two Fig. 2 with Z and Y options.

List 4—Equipment and wiring required in addition to list 2, when list 3 is not provided in accordance with SD-26279-01, two Fig. 3

Note

- A. Reserved.

H599-218—A&M Only—Attendant Access Trunk Unit With Advance Control for 2-Way Operation for Use With Phase I Centrex

Equipment—H599-218

List 1—Assembly, equipment, and wiring for two attendant access trunks with advance control per SD-26278-02, two Fig. 1.

Note

- A. Reserved.

H599-228—A&M Only—Calls-Waiting Signal Unit—Phase I Centrex

Equipment—H599-228

List 1—Assembly, wiring, and equipment for one calls-waiting signal circuit in accordance with SD-26271-01, Fig. 1.

Notes

- A. Reserved.
- B. Specify one or more list 1 per customer group—dependent on traffic requirements.
- C. When indicator lamps are associated with this unit they will be mounted on customer premises near attendant console in manner prescribed by the telephone company, Mfr Disc.
- D. Office records need not be maintained for W and X options.
- E. Where a lamp repeating circuit is not required, unit J23069AN or unit J23069AP audible signal to telephone must be provided.

H599-230—A&M Only—Attendant Trunk for Use With 608A Switchboard Arranged for Phase I Centrex

Equipment—H599-230

List 1—Wiring and equipment for one attendant trunk for use with 608A switchboard, in accordance with SD-26503-01, Fig. 1.

Note

- A. Reserved.

H599-241—A&M Only—Balancing Network Unit for Offices Arranged for Phase I Centrex Service

Equipment—H599-241

List 1—Assembly, wiring, and equipment for 12 balancing networks, in accordance with SD-26268-01, 12 Fig. 1.

Notes

- A. Reserved.
- B. Specify one H599-241, List 1 per 12 or fewer position units per H599-200.

5. GENERAL NOTES**Wiring and Cabling**

5.01 For the gauge and insulation of wire to be use in manufacture of the units listed herein see ED-27042-01.

5.02 In addition to the test position unit the following equipment for testing must be provided.

1. One centrex test connector unit, J23252AF, A&M Only, on the recorder bay of the master test frame and additional units as required on the miscellaneous relay racks (phase II centrex).
2. One 1B11F-61 telephone console (phase II centrex).
3. One centrex test connector unit, J23252AK, AT&TCo Standard, on the recorder bay, A&M Only, or auxiliary control bay of the master test frame and one or more as required on the miscellaneous relay racks (phase III centrex).
4. One 1B25F-61 telephone console (phase III centrex).

5.03 Codes J23069T through J23069Y are unassigned.

List of A&M Only and Mfr Disc. Equipment

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J23069A	A&M Only	1	—
J23069B	A&M Only	2	—
J23069C	A&M Only	1	—
J23069D	Mfr Disc.	1	J23069AK
J23069E	Mfr Disc.	4	J23069BC
J23069F	A&M Only	2	—
J23069G,	A&M Only	1	—
L2	A&M Only	1	J23069G,L3
J23069J,L1	Mfr Disc.	1	J23069J,L3
J23069K,L1	Mfr Disc.	1	J23069K,L2
J23069S,L2	Mfr Disc.	5	—
J23069AA	A&M Only	1	—
J23069AB	A&M Only	1	—
J23069AC	A&M Only	1	—
J23069AD	A&M Only	1	—
J23069AJ	A&M Only	1	J23069AK
J23069AL	A&M Only	2	—
J23069AN	A&M Only	2	—
J23069AP	A&M Only	2	—
J23069AS	A&M Only	4	—
H599-111	A&M Only	—	—
H599-138	A&M Only	—	H599-218
H599-147	A&M Only	—	—
L2	Mfr Disc.	—	—

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
H599-200	A&M Only	-	-
H599-201	A&M Only	-	-
H599-206	A&M Only	-	-
L1	Mfr Disc.	-	L2
L3	A&M Only	-	L4
H599-218	A&M Only	-	-
H599-228	A&M Only	-	-
H599-230	A&M Only	-	-
H599-241	A&M Only	-	-

The above equipment has been replaced as indicated. Where A&M Only items appear, the issue numbers shown are those of the issue in which the rating was first applied.

Bell Telephone Laboratories, Incorporated

Dept 5143