

**SERVICE TRUNKS AND MISCELLANEOUS
RELAY RACK EQUIPMENT UNITS
EQUIPMENT DESIGN REQUIREMENTS
NO. 5 CROSSBAR SYSTEM**

1. GENERAL

Description

Scope

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the assembly, equipment, and circuits to be used in the manufacture and installation of miscellaneous service relay rack units for use in No. 5 Crossbar System.

1.02 This specification is reissued:

- (a) to add new Voice alarm and Control Unit, J23058BT, in accordance with SD-27980-01, Issue 1.
- (b) to add information shown on Addendum, Issue 1.

1.03 The units listed herein provide the equipment for miscellaneous relay rack units. These units, for which it is expected there will be a continued demand, are on a shop-wired basis and have been assigned equipment J codes. Installation force wired equipment not assembled on shop-wired units shall be arranged on the relay rack in accordance with the drawings listed herein and wired by the installation force. These trunk units mount on relay rack frames listed in J23064 and will be mounted on the frame from the bottom up. The circuits mounted on each frame are designated from 00 up.

1.04 All wiring for the coded units shall be provided as surface wiring.

SUBDIVISIONS OF EQUIPMENT AND DETAILED INDEX

WEC Co J drawings 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 PLTS PER UNIT
ED-25884-11	AT&TCO Std	Trk Make-Busy Unit For Trk From Line Lk Fr & Trk Lk Fr	ED-25884-11	SD-25668-01	Variable	1
ED-25915-01	AT&TCO Std	Coin Supervisory Key & Lamp Panel Unit	ED-25915-01	SD-25736-01	1 Com 5 Ind	1 1
J23058B	A&M Only	Unit for One Coin Supervisory Ckt — For Use With Trk Arranged for Over- time Coin Collection	J23058B-()	SD-25736-01	1	6
J23058C	A&M Only	Unit for One GB Ckt for Originating & Incoming Registers	J23058C-()	SD-25795-01	1	1
J23058D	AT&TCO Std	Unit for One All Markers Busy or All Transverters Busy Ckt	J23058D-()	SD-25695-01	1	1
J23058E	AT&TCO Std	Unit for One Coin Supervisory Release Ckt	J23058E-()	SD-25859-01	1	3
J23058F	AT&TCO Std	Unit for One RB Ckt—For Use With Recording-Comple- ting Trks Which Terminate in No. 13C, 13D, 14C, 14D, 15C, or 15D Swbd	J23058F-()	SD-25933-01	2 Cont 2 Sup. Ring 3 AC-DC Ring.	1 1 1

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLTS PER UNIT
J23058H	AT&TCo Std	Unit for Two Coin Supervisory Aux Make-Busy Relay Ckt	J23058H-()	SD-25736-01	2	1
J23058J	AT&TCo Std	Unit for Two Coin Supervisory Concen- trating Selector Units	J23058J-()	SD-25721-01	2	4
J23058K	AT&TCo Std	Unit for Five Coin Supervisory Concen- trating Start Relay Ckts	J23058K-()	SD-25721-01	5	1
J23058L	A&M Only	Unit for Three Sender GB Alarm Ckts	J23058L-()	SD-25500-01	3	1
J23058M	AT&TCo Std	Unit for One Observing Entry Control Ckt Arranged for AMA — For Use in No. 1 or 5 Crossbar Offices	J23058M-()	SD-25912-01	1	2
J23058N	AT&TCo Std	Unit for Two 4-IPM Interrupters	J23058N-()	SD-26063-01	2	1
J23058Q	AT&TCo Std	Unit for One Tone Trk for Use With Voice and WADS	J23058Q-()	SD-26132-01	1	1
J23058R	AT&TCo Std	Unit for One Tone Trk — Coin	J23058R-()	SD-26133-01	1	1
J23058S	AT&TCo Std	Unit for One Per- manent Signal Holding Trk	J23058S-()	SD-26134-01	1	2

SECTION 819-609-150

J23058, ISSUE 13

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLTS PER UNIT	
J23058T	AT&TCo Std	Unit for One 4-IPM Interrupter Timer	J23058T-()	SD-26063-01	6	1	
J23058U	AT&TCo Std	Unit for Building- Out Capacitors	J23058U-()	SD-25546-01	10	1	
J23058Y	AT&TCo Std	Lk Reseizure Relay Unit	J23058Y-()	SD-26072-01	12	1	,
J23058Z	AT&TCo Std	Pulse Generator & Counter Unit for Use With Inter- cepting Trk Using E&M Lead Super- vision	J23058Z-()	SD-26115-01	2	5	.
J23058AA	AT&TCo Std	Aux Outgoing Trunk Unit — From LineLkFr to PBX Tie Trk, Recorded Tele- phone Dictation Ckt, or 3A Code Call Ckt	J23058AA-()	SD-26084-01	2	1	
J23058AB	AT&TCo Std	Directional Reserva- tion Unit — For Use With 2-Way IT Trk Ckts	J23058AB-()	SD-26154-01	1	3	
J23058AC	AT&TCo Std	Aux Line Unit E&M Lead Supervision, Station End, for Use With 4-Wire Lines	J23058AC-()	SD-27517-01	1	2	
J23058AD	AT&TCo Std	Tone, Announcement & Permanent Signal Overflow Trk Unit for Use With 4-Wire Trk Lk Fr	J23058AD-()	SD-27504-01	1	2	
J23058AE	AT&TCo Std	Perm Signal Hold- ing Trk Unit for Use With 4-Wire Trk Lk Frs	J23058AE-()	SD-27506-01	1	5	
J23058AF	AT&TCo Std	Interrupter Counter Unit, 1-, 1-1/3, 2-, or 4-IPM for Use With 4-Wire Trunks	J23058AF-()	SD-27510-01	1	1	,
J23058AG	AT&TCo Std	Interrupter & Timer Unit, 1-, 1-1/3, 2-, or 4-IPM or 6- or 12-Minute Timing	J23058AG-()	SD-27510-01	1	2	
							

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLTS PER UNIT
J23058AH	AT&TCo Std	Emergency Control Unit — For Use With 2- to 4-Wire Inter- train Trk Ckt — Subscriber to Trk	J23058AH-()	SD-27528-01	1	1
J23058AJ	AT&TCo Std	Dual Channel Re- ceiver Unit — 700 & 1100 Hz	J23058AJ-()	SD-95956-01	1	2
J23058AK	AT&TCo Std	Unit for One 10- IPS Tone Inter- rupter Ckt	J23058AK-()	SD-27604-01	1	1
J23058AM	AT&TCo Std	Idle Line Release Unit for WADS	J23058AM-()	SD-27639-01	10	1
J23058AN	AT&TCo Std	Concentrator All Trks Busy Unit for WADS — For One Concentrator Group of Maximum 80 Lines	J23058AN-()	SD-27639-01	1	2
J23058AP	AT&TCo Std	Alarm Cutoff Unit for Permanent Signal Hold Trks	J23058AP-()	SD-27506-01	5	1
J23058AR	AT&TCo Std	Concentrator All Trks Busy Unit for WADS — For One Con- centrator Group of Maximum 50 Lines	J23058AR-()	SD-27639-01	1	1
J23058AT	AT&TCo Std	LLP Sender Group Busy Control Unit	J23058AT-()	SD-27638-01	1	2
J23058AU	AT&TCo Std	Unit for Two Per- manent Signal Hold- ing Trks for WADS	J23058AU-()	SD-27650-01	2	3
J23058AW	AT&TCo Std	Traffic Sample Unit	J23058AW-()	SD-27681-01	3	2
J23058AY	AT&TCo Std	Interrupter Counter Unit, 1-, 1-1/3, 2- or 4-IPM or 6- or 12-Minute Timing for Use With 2-Wire Trunks	J23058AY-()	SD-27510-01	1	1

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLTS PER UNIT	
J23058BA	AT&TCo Std	Originating, Trans- fer, or Incoming Register Group Busy Unit	J23058BA-()	SD-25795-01	2	1	
J23058BB	AT&TCo Std	Auxiliary Originat- ing Register Group Busy Unit	J23058BB-()	SD-25795-01	3	1	
J23058BC	AT&TCo Std	Unit for Two Com- mon Overflow Trunks	J23058BC-()	SD-27731-01	2	3	
J23058BE	AT&TCo Std	Sender Group Busy Alarm Unit	J23058BE-()	SD-27638-01	3	2	
J23058BF	AT&TCo Std	Immediate Ring Control Unit	J23058BF-()	SD-27820-01	1	2	
J23058BG	AT&TCo Std	High-Impedance Tone Generator Unit —440 Hz	J23058BG-()	SD-27825-01	2	1	
J23058BJ	AT&TCo Std	Trunk Group Busy Indication Unit	J23058BJ-()	SD-27847-01	6	1	
J23058BK	AT&TCo Std	Dynamic Overload Control Unit	J23058BK-()	SD-27866-01	1	1	
J23058BL	A&M Only	Unit for Two Aux Coin Supervisory Ckts — For Coin Service Improve- ments (Dial-Tone- First) When Overtime Charging is Required	J23058BL-()	SD-25736-01	2	1	
J23058BM	A&M Only	Unit for One Aux Coin Supv Ckt for Use with J23058B	J23058BM-()	SD-25736-01	1	1	
J23058BN	AT&TCo Std	Unit for One Aux Coin Supv Unit for Use with Overtime Machine Announce- ments in Conjunction with Coin Supv Unit J23058B	J23058BN-()	SD-25736-01	1	2	 

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CKT DWG	CKTS PER UNIT	MTG PLTS PER UNIT
J23058BP	AT&TCo Std	Dynamic Overload Control and Alarm Unit	J23058BP-()	SD-27970-01	1	1
J23058BR	AT&TCo Std	Dynamic Overload Control Signal Unit	J23058BR-()	SD-27970-01	1	1
J23058BS	AT&TCo	Unit for One Coin Supv Ckt Arr for Coin Service Improve- ments (Dial-Tone-First)	J23058BS-()	SD-25736-01	1	8
J23058BT	AT&TCo Std	Voice Alarm and Control Unit	J23058BT-()	SD-27980-01	2	3
J23058BD	Reserved					

Circuit Schematic Index

J23058		J23058	
CIRCUIT DRAWING	EQUIPMENT CODE	CIRCUIT DRAWING	EQUIPMENT CODE
SD-25500-01	L	SD-27504-01	AD
SD-25546-01	U	SD-27506-01	AE,AP
SD-25668-01	ED-25884-11	SD-27510-01	AF,AG,AY
SD-25695-01	D	SD-27517-01	AC
SD-25721-01	J,K	SD-27528-01	AH
SD-25736-01	ED-25915-01,B,H,BL	SD-27604-01	AK
	BM,BN,BS	SD-27638-01	AT,BE
SD-25795-01	C,BA,BB	SD-27639-01	AM,AN,AR
SD-25859-01	E	SD-27650-01	AU
SD-25912-01	M	SD-27681-01	AW
SD-25933-01	F	SD-27731-01	BC
SD-26063-01	N,T	SD-27820-01	BF
SD-26072-01	Y	SD-27825-01	BG
SD-26084-01	AA	SD-27847-01	BJ
SD-26115-01	Z	SD-27866-01	BK
SD-26132-01	Q	SD-27970-01	BP,BR,
SD-26133-01	R	SD-27980-01	BT
SD-26134-01	S	SD-95956-01	AJ
SD-26154-01	AB		

2. SUPPLEMENTARY INFORMATION

819-000-000—No. 5 Crossbar System Index
 800-600-000—Checking List—General Equipment Requirements Sections
 J23064—819-601-150—Relay Rack Frames for Trunks and Relay Equipments
 J29259—819-005-150—General Outline—No. 5 Crossbar System
 X-67286—Manufacturing Testing Requirements—Coin Supervisory Circuit

3. DRAWINGS

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

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

4. EQUIPMENT

ED-25884-11—AT&TCo Std—Trunk Make-Busy Unit for Trunks From Line Link Frame and Trunk Link Frame

Group 1—Assembly and equipment for four make-busy TB relays for busying 48 trunks on the trunk link frame and one make-busy LB relay for busying 11 trunks on the line link frame. This unit is arranged for a maximum of nine make-busy relays (or eight make-busy relays and one multiple M relay) and four line L relays.

Group 2—Equipment required in addition to group 1 or 6 for one multiple M relay, which is required when the number of make-busy (TB and/or LB) relays in any one group exceeds five. One M relay has a capacity for 60 TB and/or LB relays.

Group 3—Equipment required in addition to group 1 or 6 for one additional make-busy TB relay for busying 12 additional trunks on the trunk link frame.

Group 4—Equipment required in addition to group 1 or 6 for one additional make-busy LB relay for busying 11 additional trunks on the trunk link frame.

Group 5—Equipment required in addition to group 1 or 7 for one line L relay required for each group of trunks to be made

busy from a distant office or from a switchboard in the same office, if it is one of a series.

Group 6—Assembly and mounting plate to accommodate a maximum of 12 make-busy (LT, TB, and/or LB) and multiple M relays.

Group 7—Assembly and mounting plate to accommodate a maximum of 16 line L relays.

Group 8—Equipment required in addition to group 1 or 6 for one line LT relay required for each group of trunks to be made busy from Toll Systems trunk concentrating equipment or associated switchboard indicator control circuit.

ED-25915-01—AT&TCo Std—Coin Supervisory Key and Lamp Panel Unit

Group 1—Assembly and equipment for one common control circuit (capacity one) and one individual control circuit (capacity five).

Group 2—Equipment required in addition to group 1 or 3 for one additional individual control circuit.

Group 3—Assembly and equipment for one individual control circuit (capacity five).

J23058B—A&M Only—Unit for One Coin Supervisory Circuit—For Use With Trunks Arranged for Overtime Coin Collection

Equipment—J23058B-()

List 1—Assembly, equipment, and wiring for one circuit per SD-25736-01, Fig. 1, less options YJ, ZY, YN, and YK provided as part of J23058BM and less options listed below.

List 3—Equipment and wiring required in addition to list 1 when 1000-Hz trunk impedance is 1100 ohms or less per SD-25736-01, Fig. 1, T option only.

List 5—Equipment and wiring required in addition to list 1 when 1000-Hz trunk impedance is greater than 1100 ohms per SD-25736-01, Fig. 1, V option only.

List 6—Equipment and wiring required in addition to list 1 for common control circuit for first equipped unit on any one relay rack frame per SD-25736-01, Fig. 2, AD resistance only.

List 7—Equipment and wiring required in addition

to list 1 when coin service improvements (dial-tone-first) with overtime charging is required per SD-25736-01, YE option.

Notes

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

1. Wiring required in addition to list 1 when alarm sending is required in accordance with SD-25736-01, ZQ option.
2. Wiring required in addition to list 1 when alarm sending is not required in accordance with SD-25736-01, X and ZP options.
3. Wiring required in addition to list 1 when coin service improvements (dial-tone-first) are required in accordance with SD-25736-01, YC option. (See Note F.)
4. Wiring required in addition to list 1 when coin service improvements (dial-tone-first) are not required, in accordance with SD-25736-01, YB option.
6. Wiring required in addition to list 1 when either coin service improvements (dial-tone-first) are not required or coin service improvements (dial-tone-first) without overtime charging are required in accordance with SD-25736-01, YD option.
7. Wiring required in addition to list 1 when operator monitoring for coin deposit is provided with local operation without overtime machine announcement in accordance with SD-25736-01, option ZU.
8. Wiring required in addition to list 1 when overtime machine announcement is not provided in accordance with SD-25736-01, option ZS.

- B. The key and lamps, per SD-25736-01, Fig. 2 and 3, are covered by ED-25915-01.
- C. The auxiliary make-busy relay circuit, per SD-25736-01, Fig. 4, is covered by J23058H.
- D. Job records need not be maintained for R and W options.

E. Because of wiring arrangements provided in the wire spring coin supervisory link frame, a minimum of two coin supervisory circuits may be assigned to the link frame.

F. The coin service improvements (dial-tone-first) circuit for use when coin service improvements with overtime charging are required is provided per J23058BL.

J23058C—A&M Only—Unit for One Group-Busy Circuit for Originating and Incoming Registers

Equipment—J23058C-()

List 2—Equipment and wiring required in addition to list 1 for each group of registers on six frames, per SD-25795-01, Fig. 1, W, X, Y, or Z options only.

List 3—Terminal strip required in addition to list 1 when number of register frames exceeds nine.

Notes

- A. Reserved.
- B. When a call originating test set is associated with a group-busy unit manufactured prior to Issue 13D of SD-25695-01, provide N option and replace RB1 relay, P option, if furnished, with RB1 relay and Q option.
- C. Do not provide this unit for No. 5 crossbar incoming registers which are available to trunk from crossbar tandem, step-by-step, or No. 4A or 4M toll offices arranged for CAMA.

J23058D—AT&T Co Std—Unit for One All Markers Busy or All Transverters Busy Circuit

Equipment—J23058D-()

List 1—Assembly, equipment, and wiring for combined marker with common traffic control, or completing and dial tone marker with separate traffic control, or marker for automatic call distribution, or all transverters busy per SD-25695-01, Fig. 1 and 3.

List 5—Assembly, equipment, and wiring for combined markers with separate traffic control or completing markers arranged

for use with originating line identifier, per SD-25695-01, Fig. 1 and 4.

J23058E—AT&TCo Std—Unit for One Coin Supervisory Release Circuit

Equipment—J23058E-()

List 1—Assembly, equipment, and wiring for one release circuit with capacity for connection to 40 coin supervisory circuits and equipped for connection to ten, per SD-25859-01, Fig. 1, 2, B, and Y option.

List 3—Equipment and wiring required in addition to list 1 for each ten additional coin supervisory circuits per SD-25859-01, Fig. 1.

J23058F—AT&TCo Std—Unit for One Ringback Circuit—For Use With Recording—Completing Trunks Which Terminate in No. 13C, 13D, 14C, 14D, 15C, or 15D Switchboard

Equipment—J23058F-()

List 1—Assembly, equipment, and wiring for one ringback control circuit to serve 60 trunks with capacity for 120 per SD-25933-01, Fig. 1 and 2.

List 2—Assembly, equipment, and wiring for one ringback unit equipped to serve five trunks with capacity for 15 in offices arranged for 2-party selective, 4-party semiselective, or 10-party, 5-code ringing per SD-25933-01, Fig. A.

List 3—Assembly, equipment, and wiring for one trunk unit equipped to serve five trunks with capacity for ten in offices arranged for 4-party selective, or 8-party semiselective ringing per SD-25933-01, Fig. B.

List 4—Equipment and wiring required in addition to list 1 to serve 60 additional trunks per SD-25933-01, Fig. 2.

List 5—Equipment and wiring required in addition to list 2 for each additional five trunks served per SD-25933-01, Fig. A.

List 6—Equipment and wiring required in addition to list 3 for each additional five trunks served per SD-25933-01, Fig. B.

J23058H—AT&TCo Std—Unit for Two Coin Supervisory Auxiliary Make-Busy Relay Circuits

Equipment—J23058H-()

List 1—Assembly, equipment, and wiring for one auxiliary make-busy relay circuit with capacity for two circuits per SD-25736-01, Fig. 4.

List 2—Equipment and wiring required in addition to list 1 for the second circuit per SD-25736-01, Fig. 4.

Notes

A. Reserved.

B. One auxiliary make-busy circuit is required for each coin supervisory circuit in accordance with J23058B which is associated with a coin supervisory link group which serves trunks in more than five horizontal groups.

C. This unit shall be mounted on the same relay rack frame and preferably adjacent to the associated coin supervisory circuit.

J23058J—AT&TCo Std—Unit for Two Coin Supervisory Concentrating Selector Units

Equipment—J23058J-()

List 1—Assembly, equipment, and wiring for one coin supervisory concentrating selector unit equipped with two concentrating circuits per SD-25721-01, Fig. 1.

J23058K—AT&TCo Std—Unit for Five Coin Supervisory Concentrating Start Relay Circuits

Equipment—J23058K-()

List 1—Assembly, equipment, and wiring for one start circuit with capacity for five, per SD-25721-01, Fig. 2.

List 2—Equipment and wiring required in addition to list 1 for each additional start circuit per SD-25721-01, Fig. 2.

J23058L—A&M Only—Unit for Three Sender Group-Busy Alarm Circuits

Equipment—J23058L-()

List 2—Equipment and wiring required in addition to list 1 for each sender group alarm control circuit in accordance with SD-25500-01, Fig. 1, and Z option.

J23058M—AT&TCo Std—Unit for One Observing Entry Control Circuit Arranged for AMA—For Use in No. 1 or No. 5 Crossbar Offices

Equipment—J23058M-()

List 1—Assembly, common equipment, and wiring for one unit in accordance with SD-25912-01, Fig. 7 and C, less all options.

List 2—Equipment and wiring required in addition to list 1 for filament supply circuit for the first equipped of each group of 20 units in accordance with SD-25912-01, Fig. 8.

List 3—Equipment and wiring required in addition to list 1 for No. 5 crossbar offices in accordance with SD-25912-01, Fig. 7, S option only.

List 4—Equipment and wiring required in addition to list 1 for No. 1 crossbar offices in accordance with SD-25912-01, Fig. 7, R option only.

Notes

A. Reserved.

B. The 327B plug and S4B cord (black) or 223A jack shall be furnished at the service observing patching panel as shown on ED-25623-01.

J23058N—AT&TCo Std—Unit for Two 4-IPM Interrupters

Equipment—J23058N-()

List 1—Assembly, common equipment, and wiring for one interrupter unit arranged but not equipped for two circuits, each connecting to 24 trunks.

List 2—Equipment and wiring required in addition to list 1 for each interrupter circuit in accordance with SD-26063-01, Fig. 1.

Notes

A. Reserved.

B. The 2E timer, in accordance with SD-26063-01, Fig. 2, is located on J23058T.

J23058Q—AT&TCo Std—Unit for One Tone Trunk for Use With Voice and WADS

Equipment—J23058Q-()

List 3—Assembly, equipment, and wiring required for one tone trunk in accordance with SD-26132-01, Fig. 1.

List 4—Equipment and wiring required in addition to list 3 for voice service in accordance with SD-26132-01, S option.

List 5—Equipment and wiring required in addition to list 3 for WADS in accordance with SD-26132-01, R option.

List 6—Apparatus and wiring in accordance with SD-26132-01, Fig. 3 required in addition to list 3 when 6- or 12-minute timed release is provided. (See Note C.)

Notes

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

1. Wiring in accordance with SD-26132-01, M option required in addition to list 3 when tip and ring lead polarity is normal (ground on tip, battery on ring).

2. Wiring in accordance with SD-26132-01, K option required in addition to list 3 when tip and ring lead polarity is reversed (battery on tip, ground on ring). (See Note C.)

B. Reserved.

C. Unit J23058Q equipped with list 6 and K option is required when 2-way off-net access service is provided and shall be used in a separate trunk group.

J23058R—AT&TCo Std—Unit for One Tone Trunk—Coin

Equipment—J23058R-()

List 1—Assembly, equipment, and wiring for one trunk in accordance with SD-26133-01, Fig. 1. /

J23058S—AT&TCo Std—Unit for One Permanent Signal Holding Trunk

Equipment—J23058S-()

List 1—Assembly, equipment, and wiring for one trunk in accordance with SD-26134-01, Fig. 1.

List 2—Wiring and equipment required in addition to list 1 when office is arranged for range extension for unigauge cabling per SD-26134-01, Fig. 2.

Notes

A. Wiring required in addition to list 1 in marker groups serving coin lines in accordance with SD-26134-01, T and X options.

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

J23058T—AT&TCo Std—Unit for One 4-IPM Interrupter Timer

Equipment—J23058T-()

List 1—Common equipment for one timer unit with capacity for six timers.

List 2—Equipment and wiring required in addition to list 1 for each timer circuit in accordance with SD-26063-01, Fig. 2.

Notes

A. Reserved.

B. This unit is used with interrupter unit J23058N.

J23058U—AT&TCo Std—Unit for Building-Out Capacitors

Equipment—J23058U-()

List 1—Assembly, equipment, and wiring for one building-out capacitor unit equipped with ten building-out capacitors in accordance with SD-25546-01, ten Fig. 1.

J23058Y—AT&TCo Std—Link Reseizure Relay Unit

Equipment—J23058Y-()

List 1—Assembly, equipment, and wiring for one unit of 12 circuits in accordance with SD-26072-01, Fig. 1.

J23058Z—AT&TCo Std—Pulse Generator and Counter Unit for Use With Intercepting Trunks Using E and M Lead Supervision

Equipment—J23058Z-()

List 1—Assembly, equipment, and wiring for two pulse generators in accordance with SD-26115-01, two Fig. 1 and one Fig. 2.

J23058AA—AT&TCo Std—Auxiliary Outgoing Trunk Unit—From Line Link Frame To PBX Tie Trunk, Recorded Telephone Dictation Circuit, Or 3A Code Call Circuit (See Note A)

Equipment—J23058AA-()

List 1—Assembly, equipment, and wiring for two auxiliary outgoing trunks in accordance with SD-26084-01, two Fig. 1.

Notes

A. This trunk carries an AT&TCo Provisional rating for providing access to PBX tie trunks.

J23058AB—AT&TCo Std—Directional Reservation Unit—For Use With 2-Way Intertoll Trunk Circuits

Equipment—J23058AB-()

List 1—Assembly, equipment, and wiring for one directional reservation unit of 40-trunk capacity in accordance with SD-26154-01, Fig. 1 and 2.

J23058AC—AT&TCo Std—Auxiliary Line Unit E and M Lead Supervision, Station End, For Use With 4-Wire Lines

Equipment—J23058AC-()

List 2—Assembly, wiring, and equipment for one auxiliary line in accordance with SD-27517-01, Fig. 1.

List 3—Equipment and wiring required in addition to list 2 for rering against off-hook in accordance with SD-27517-01, Fig. 2.

Notes

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

1. Wiring required in addition to list 2 when rering against off-hook is not required in accordance with SD-27517-01, Z option.

J23058AD—AT&TCo Std—Tone, Announcement, and Permanent Signal Overflow Trunk Unit for Use With 4-Wire Trunk Link Frames

Equipment—J23058AD-()

List 1—Assembly, wiring, and equipment for one tone, announcement, and permanent signal overflow trunk in accordance with SD-27504-01, Fig. 1.

Notes

A. Reserved.

J23058AE—AT&TCo Std—Permanent Signal Holding Trunk Unit for Use With 4-Wire Trunk Link Frames

Equipment—J23058AE-()

List 1—Assembly, wiring, and equipment for two permanent signal holding trunks in accordance with SD-27506-01, two Fig. 1.

J23058AF—AT&TCo Std—Interrupter Counter Unit, 1-, 1-1/3, 2-, or 4-IPM For Use With 4-Wire Trunks

Equipment—J23058AF-()

List 1—Assembly, wiring, and equipment for one interrupter counter unit to provide 1-, 1-1/3, or 4-IPM for a maximum of ten 4-wire trunks in accordance with SD-27510-01, Fig. 1 with S option.

Notes

A. Reserved.

B. The associated interrupter and timer unit is J23058AG.

J23058AG—AT&TCo Std—Interrupter and Timer Unit, 1-, 1-1/3, 2- or 4-IPM or 6- or 12-Minute Timing

Equipment—J23058AG-()

List 1—Assembly and common equipment for one interrupter and timer unit arranged for two circuits per SD-27510-01. (See Note C.)

List 2—Equipment and wiring required in addition to list 1 for 1-, 1-1/3, 2-, or 4-IPM in accordance with SD-27510-01, Fig. 2 and 4.

List 3—Equipment and wiring required in addition to list 1 for 6- or 12-minute timing in accordance with SD-27510-01, Fig. 2 and 5.

Notes

A. Reserved.

B. This unit shall be mounted on the same relay rack frame as associated interrupter counter unit J23058AF or J23058AV.

C. This unit may be equipped with one list 2 and one list 3 or two lists 2 or two lists 3.

J23058AH—AT&TCo Std—Emergency Control Unit—For Use With 2- to 4-Wire Intertrain Trunk Circuit—Subscriber to Trunk

Equipment—J23058AH-()

List 1—Assembly, wiring, and equipment for one emergency control unit in accordance with SD-27528-01, Fig. 1.

J23058AJ—AT&TCo Std—Dual Channel Receiver Unit—700 and 1100 Hz

Equipment—J23058AJ-()

List 1—Assembly, equipment, and wiring for one dual channel receiver circuit in accordance with SD-95956-01, Fig. 1 and Y option.

Notes

- A. Reserved.
- B. This unit may also be provided in a No. 1 crossbar office.

J23058AK—AT&TCo Std—Unit for One 10-IPS Tone Interrupter Circuit

Equipment—J23058AK-()

List 1—Assembly, equipment, and wiring for one tone interrupter circuit in accordance with SD-27604-01, Fig. 1.

J23058AM—AT&TCo Std—Idle Line Release Unit for Wide Area Data Service

Equipment—J23058AM-()

List 1—Assembly, equipment, and wiring for ten idle line release TR relays for ten hunting groups in accordance with SD-27639-01, ten Fig. 2.

J23058AN—AT&TCo Std—Concentrator All-Trunks-Busy Unit for Wide Area Data Service—For One Concentrator Group of Maximum 80 Lines

Equipment—J23058AN-()

List 1—Assembly, equipment, and wiring for one all-trunks-busy unit for one concentrator group in accordance with SD-27639-01, seven Fig. 3 and one Fig. 4.

J23058AP—AT&TCo Std—Alarm Cutoff Unit for Permanent Signal Holding Trunks

Equipment—J23058AP-()

List 1—Assembly, equipment, and wiring for one alarm cutoff unit arranged to serve 50 trunks and equipped for ten trunks in accordance with SD-27506-01, Fig. 2.

List 2—Equipment and wiring required in addition to list 1 for each additional ten trunks

served in accordance with SD-27506-01, Fig. 2.

J23058AR—AT&TCo Std—Concentrator All-Trunks-Busy Unit for Wide Area Data Service—For One Concentrator Group of Maximum 50 Lines

Equipment—J23058AR-()

List 1—Assembly, equipment, and wiring for one concentrator all-trunks-busy unit for one concentrator group in accordance with SD-27639-01, four Fig. 3 and one Fig. 4.

J23058AT—AT&TCo Std—LLP Sender Group Busy Control Unit

Equipment—J23058AT-()

List 1—Assembly, wiring, and equipment for one line link pulsing sender group busy control unit arranged to serve six sender groups in accordance with SD-27638-01, two Fig. 4 and one Fig. 5. (See Note B.)

List 2—Wiring and equipment required in addition to list 1 for serving two additional sender groups in accordance with SD-27638-01, two Fig. 4. (Maximum is two list 2.)

List 3—Wiring and equipment required in addition to list 1 to provide sender busy peg count feature in accordance with SD-27638-01, Fig. 6.

List 4—Wiring and equipment required in addition to list 3 when traffic data recorder is provided in accordance with SD-27638-01, V option.

Notes

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

1. Wiring required in addition to list 3 when traffic data recorder is not provided in accordance with SD-27638-01, W option.

B. One unit is required in a marker group having two or more sender groups of the same type arranged for LLP. This unit is used with J23058BE.

- C. The LLP senders served by this unit may be associated with a maximum of 15 outsender link (LLP) frames.

J23058AU—AT&TCo Std—Unit for Two Permanent Signal Holding Trunks for WADS

Equipment—J23058AU-()

- List 1**—Assembly, equipment, and wiring for two permanent signal holding trunks in accordance with SD-27650-01, two Fig. 1.

J23058AW—AT&TCo Std—Traffic Sample Unit

Equipment—J23058AW-()

- List 1**—Assembly, equipment, and wiring for one traffic sample unit, arranged for three circuits, but equipped for one in accordance with SD-27681-01, Fig. 1.

- List 2**—Equipment and wiring for one additional traffic sample circuit in accordance with SD-27681-01, Fig. 1.

Notes

- A. In addition there are options involving wiring only as follows:
1. Wiring required when CTR counter check circuit is provided in the marker in accordance with SD-27681-01, Z option.
 2. Wiring required when CTR counter check circuit is not provided in the marker in accordance with SD-27681-01, Y option.
 3. Wiring required when traffic sample monitor circuit is provided in accordance with SD-27681-01, X option.

J23058AY—AT&TCo Std—Interrupter Counter Unit, 1-, 1-1/3, 2-, or 4-IPM or 6- or 12-Minute Timing For Use With 2-Wire Trunks

Equipment—J23058AY-()

- List 1**—Assembly, wiring, and equipment for one interrupter counter unit to provide 1-, 1-1/3, 2-, or 4-IPM, or 6- or 12-minute timing for two maximum of 100 2-wire

trunks in accordance with SD-27510-01, Fig. 1 and 3.

Notes

- A. Reserved.

- B. The associated interrupter and timer unit is J23058AG.

J23058BA—AT&TCo Std—Originating, Transfer, or Incoming Register Group Busy Unit

Equipment—J23058BA-()

- List 1**—Assembly, wiring, and common equipment for a group busy unit for two groups of originating registers arranged for a maximum of nine originating register frames per group and equipped for three; two incoming registers group; or two transfer register groups in accordance with SD-25795-01, two fig. 2. (See Note F.)

- List 2**—Equipment and wiring required in addition to list 1 for six additional originating register frames in one group of originating registers in accordance with SD-25795-01, Fig. 3.

Notes

- A. Reserved.
- B. Job records need not be maintained for F and G options.
- C. Each circuit on this unit may be used for an originating, an incoming, or a transfer register group as required.
- D. Do not provide this unit for No. 5 crossbar incoming registers which are available to trunks from crossbar tandem, step-by-step, or No. 4A or 4M offices arranged for CAMA.
- E. For additional originating register frames in same group provide auxiliary originating register group busy unit, J23058BB.
- F. One group busy circuit is required per group of permanent signal holding trunks to provide a signal to the 4-wire originating register when all permanent signal holding trunks are busy.

J23058BB—AT&TCo Std—Auxiliary Originating Register Group Busy Unit

Equipment—J23058BB-()

List 1—Assembly, wiring, and equipment for one auxiliary originating register group busy unit arranged for three and equipped for one RB- relay for six originating register frames in one group in accordance with SD-25795-01, Fig. 3.

List 2—Equipment and wiring required in addition to list 1 for six additional originating register frames in one group in accordance with SD-25795-01, Fig. 3.

J23058BC—AT&TCo Std—Unit for Two Common Overflow Trunks

Equipment—J23058BC-()

List 1—Assembly, equipment, and wiring for two common overflow trunks in accordance with SD-27731-01, two Fig. 1.

List 2—Equipment and wiring required in addition to list 1 when trunk is arranged for announcement return in accordance with SD-27731-01, two Fig. 2. (See Note C.)

List 3—A&M Only—Equipment and wiring required in addition to list 1 for two common overflow trunks, when connecting to permanent signal alarm circuit two SD-25815-01, Y option.

Notes

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

1. Wiring required in addition to list 1 when the trunk is not arranged for announcement return, in accordance with SD-27721-01, two X options.
2. Wiring in addition to list 1 when list 3 is not provided in accordance with two SD-27731-01, Z option.

B. Reserved.

C. When J23058BC is used in a marker group equipped with either an office test frame or an originating line identifier, the announcement return feature should not be furnished since

neither the office test frame nor the originating line identifier is arranged to function with this feature.

J23058BD—Reserved***J23058BE—AT&TCo Std—Sender Group Busy Alarm Unit***

Equipment—J23058BE-()

List 1—Assembly, wiring, and equipment for sender group busy alarm unit arranged to serve six sender groups and equipped to serve two sender groups in accordance with SD-27638-01, one Fig. 1, two Fig. 2, and one Fig. 3. (See Note B.)

List 2—Wiring and apparatus required in addition to list 1 for serving two additional sender groups in accordance with SD-27638-01, two fig. 2 and one Fig. 3 (maximum is two list 2).

Notes

A. Reserved.

B. One unit is always required in a marker group equipped with senders. When two or more sender groups of the same type arranged for LLP are to be served, an LLP sender group busy control unit per J23058AT is also required. Two units should normally be mounted in adjacent positions on a miscellaneous relay rack frame.

J23058BF—AT&TCo Std—Immediate Ring Control Unit

Equipment—J23058BF-()

List 1—Assembly, equipment, and wiring for one immediate ring control unit per SD-27820-01, Fig. 1 and SD-94820-01, two Fig. 2.

Notes

A. Reserved.

B. Office wiring list records need not be maintained for options Y and Z.

- C. One J23058BF unit is required per marker group when the marker controlled immediate ring feature is provided.

J23058BG—AT&TCo Std—High-Impedance Tone Generator Unit — 440 Hz.

Equipment—J23058BG-()

List 1—Assembly, equipment, and wiring for one high-impedance tone generator unit arranged to mount two tone generators and equipped with one tone generator in accordance with SD-27825-01, Fig. 1.

List 2—Equipment required in addition to list 1 for second tone generator in accordance with SD-27825-01, Fig. 1.

Notes

A. Reserved.

B. A KS-19355, List 4 tool is required to adjust the T1 transformer.

J23058BJ—AT&TCo Std—Trunk Group Busy Indication Unit

Equipment—J23058BJ-()

List 1—Assembly, equipment, and wiring for one trunk group busy indication unit which provides busy indications for six trunk groups, per SD-27847-01, six Fig. 1 and one Fig. 2.

J23058BK—AT&TCo Std—Dynamic Overload Control Unit

Equipment—J23058BK-()

List 1—Assembly, equipment, and wiring for dynamic overload control unit to control route transfer for a No. 5 crossbar marker group and a maximum of two additional switching units located in the same building in accordance with SD-27866-01, Fig. 1. (See Note B.)

List 2—Equipment and wiring required in addition to list 1 when unit is controlled by 43A1 channel terminal circuit in accordance with SD-27866-01, Y option.

List 3—Equipment and wiring required in addition to list 1 when a single dynamic overload

control unit is required to control route transfer for a maximum of seven additional switching units located in the same building in accordance with SD-27866-01, Fig. 2. (See Note B.)

Notes

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

1. Wiring required in addition to list 1 when unit is controlled by 2-wire metallic cable facilities in accordance with SD-27866-01, Z option.

B. The switching units served by the dynamic overload control unit consist of No. 5 crossbar marker groups, No. 1 crossbar offices, and panel offices.

J23058BL—A&M Only—Unit for Two Auxiliary Coin Supervisory Circuits—For Coin Service Improvements (Dial-Tone-First) When Overtime Charging is Required

Equipment—J23058BL-()

List 1—Assembly, equipment, and wiring for one auxiliary trunk unit with capacity for two coin service improvements (dial-tone-first) trunks when overtime charging is required, per SD-25736-01, Fig. 5. (See Note B.)

List 2—Equipment and wiring required in addition to list 1 for the second circuit per SD-25736-01, Fig. 5.

Notes

A. Reserved

B. One coin service improvements (dial-tone-first) circuit is required for each coin supervisory trunk in accordance with J23058B.

J23058BM—A&M Only—Unit for One Auxiliary Coin Supervisory Circuit for Use with J23058B

Equipment—J23058BM-()

List 1—Assembly, wiring, and equipment for one auxiliary coin supervisory circuit to provide additional apparatus and spare space for

use with basic unit per J23058B. This apparatus is provided per SD-25736-01, Fig. 1, options YJ, ZY, YN, and YK.

List 2—Wiring and equipment required in addition to list 1 when operator monitoring for coin deposit is provided with local operation with overtime machine announcement or remote operation with or without overtime machine announcement is required in accordance with SD-25736-01, ZV option.

List 3—Wiring and equipment required in addition to list 1 when provision for holding a coin station for trouble tracing is required in accordance with SD-25736-01, YH option.

J23058BN—AT&T Co Std—Unit for One Auxiliary Coin Supervisory Unit for Use with Overtime Machine Announcements in Conjunction with Coin Supervisory Unit J23058B

Equipment—J23058BN-()

List 1—Assembly, wiring, and equipment for one auxiliary coin supervisory unit for overtime machine announcement in accordance with SD-25736-01, Fig. 7 and 8. (See Note B.)

List 2—Wiring and equipment required in addition to list 1 when announcement machine 7A is furnished in accordance with SD-25736-01, Fig. 6 and option ZT.

List 3—Wiring and equipment required in addition to list 1 when announcement machine 6A is furnished in accordance with SD-25736-01, Fig. 9 and option ZW.

Notes

- A. Reserved.
- B. List 1 provides mounting plates and common equipment for overtime announcements. Equipment and wiring per list 2 or 3 is required for a functioning unit.

J23058BP—AT&T Co Std—Dynamic Overload Control and Alarm Unit

Equipment—J23058BP-()

List 1—Assembly, equipment, and wiring for one dynamic overload control and alarm unit in accordance with SD-27970-01, Fig. 2. (See Notes A and B.)

Notes

- A. It is preferable that this unit be mounted on the same relay rack frame with dynamic overload control signal units.
- B. This unit provides control and alarm functions for a maximum of 30 dynamic overload control signal units (J23058BR).
- C. Job records need not be maintained for W, R, and Q options.

J23058BR—AT&T Co Std—Dynamic Overload Control Signal Unit

Equipment—J23058BR-()

List 1—Assembly, equipment, and wiring for one dynamic overload control signal unit to control route transfer for a tandem or a 4A or 4M toll office from a maximum of eight switching entities located in the same building in accordance with SD-27970-01, Fig. 1 and SD-94820-01, Fig. 3. (See Notes A, B, C, and D.)

Notes

- A. It is preferable that units associated with dynamic overload control and alarm unit be mounted on same relay rack.
- B. A maximum of 30 dynamic overload control signal units may be associated with one dynamic overload control and alarm unit, J23058BP.
- C. The switching entities served by the dynamic overload control signal unit consist of No. 5 crossbar marker groups, No. 1 crossbar offices, panel offices, and No. 1 ESS offices.
- D. This unit must be associated with at least one other type switching entity (crossbar No. 1, crossbar No. 5, or panel) when serving No. 1 ESS entities.
- E. Job records need not be maintained for S, T, V, X, Y, and Z options.

J23058BS—AT&T Co Std—Unit for One Coin Supervisory Circuit Arranged for Coin Service Improvements (Dial-Tone-First)

Equipment—J23058BS-()

List 1—Assembly, equipment, and wiring for one coin supervisory circuit arranged for but not equipped with coin service improvements (dial-tone-first) in accordance with SD-25736-01, Fig. 1, options YJ and YN.

List 2—Equipment and wiring required in addition to list 1 when provision for coin service improvements (dial-tone-first) with overtime charging is required per SD-25736-01, Fig. 5, option YE.

List 3—Equipment and wiring required in addition to list 1 when 1000-Hz trunk impedance is 1100 ohms or less per SD-25736-01, Fig. 1, T option only.

List 4—Equipment and wiring required in addition to list 1 when 1000-Hz trunk impedance is greater than 1100 ohms per SD-25736-01, Fig. 1, V option only.

List 5—Equipment and wiring required in addition to list 1 for common control circuit for first equipped unit on any one relay rack per SD-25736-01, Fig. 2, (AD) resistor only.

List 6—Equipment and wiring required in addition to list 1 when selective testing of coin supervisory circuits is required per SD-25736-01, options YK and ZY.

List 7—Equipment and wiring required in addition to list 1 when operator monitoring for coin deposit is provided with local operation with overtime machine announcement or remote operation with or without overtime machine announcement is required per SD-25736-01, option ZV.

List 8—Equipment and wiring required in addition to list 1 when provision for holding a coin station for trouble tracing is required per SD-25736-01, option YH.

Notes

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

1. Wiring required in addition to list 1 when alarm sending is required per SD-25736-01, option ZQ.

2. Wiring required in addition to list 1 when alarm sending is not required per SD-25736-01, options X and ZP.

3. Wiring required in addition to list 1 when coin service improvements (dial-tone-first) are required per SD-25736-01, option YC.

4. Wiring required in addition to list 1 when coin service improvements (dial-tone-first) are not required per SD-25736-01, option YB.

5. Wiring required in addition to list 1 when either coin service improvements (dial-tone-first) are not required or coin service improvements (dial-tone-first) without overtime charging are required per SD-25736-01, option YD.

B. The key and lamps per SD-25736-01, Fig. 2 and 3 are covered by ED-25915-01.

C. The auxiliary make-busy relay circuit per SD-25736-01, Fig. 4 is covered by J23058H.

D. Job records need not be maintained for options R and W.

E. Because of wiring arrangements provided in the wire spring coin supervisory link frame, a minimum of two coin supervisory circuits may be assigned to the link frame.

F. The space of one 2-inch mounting plate shall be reserved directly below the unit for future use.

J23058BT—AT&T Co Std—Voice Alarm and Control Unit

Equipment—J23058BT-()

List 1—Assembly, wiring, and equipment for one (1) voice alarm and control unit, arranged for two voice alarm and control circuits per SD-27980-01, App Fig. 1 and equipped for one.

List 2—Wiring and equipment required in addition to list 1 for second voice alarm and control circuit per SD-27980-01, App Fig. 1.

List 3—Wiring and equipment required in addition to list 1 or list 2 when reorder tone during failure is required per SD-27980-01, Fig. 2.

Notes

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

5. GENERAL NOTES

5.01 Codes J23058AQ, J23058AV, J23058AX, and J23058AZ are unassigned.

List of A&M Only and Mfr Disc. Equipment

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
H599-288	Mfr Disc.	9	—
J23058A	Mfr Disc.	2	J23058J & J23058K
J23058B	A&M Only	12	J23058BS
L2 & L4	Mfr Disc.	3	—
J23058C	A&M Only	7	J23058BB
L1	Mfr Disc.	7	J23058BA
J23058D,L2,	Mfr Disc.	8	—
L3, & L4	Mfr Disc.	4	—
J23058E,L2	Mfr Disc.	4	—
J23058G	Mfr Disc.	5	J23058Y
J23058L,	A&M Only	9	—
L1	Mfr Disc.	9	J23058BE, L1,L2
L3	Mfr Disc.	4	—
J23058P	Mfr Disc.	9	J23058BC

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J23058Q,L1,	Mfr Disc.	7	J23058Q, L3,L4
L2	Mfr Disc.	5	—
J23058R,L2	Mfr Disc.	5	—
J23058V	Mfr Disc.	9	—
J23058W	Mfr Disc.	9	J23058BE
J23058X	Mfr Disc.	7	J23058AJ
J23058AC,			
L1	A&M Only	7	J23058AC, L2,L3
J23058AL	Mfr Disc.	7	—
J23058AS	Mfr Disc.	9	—
J23058BC,			
L3	A&M Only	9	—
J23058BL	A&M Only	12	J23058BS
J23058BM	A&M Only	—	J23058BS

The above equipment is 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

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