

**TRUNK TEST EQUIPMENT UNITS
ASSOCIATED WITH THE
MASTER TEST FRAME
EQUIPMENT DESIGN REQUIREMENTS
NO. 5 CROSSBAR SYSTEM**

1. GENERAL

SCOPE

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the framework, equipment, and circuit to be used in the manufacture and installation of trunk test circuit equipment which forms a part of the master test frame used in the No. 5 Crossbar System.

1.02 This specification is reissued to provide equipment design requirements per SD-25918-01, Issue 64D and 65A:

- (a) To add a new supplementary trunk test unit K, J23256AK to provide for 911 emergency reporting features.
- (b) To add Note C under J23256A, replacing Note B.
- (c) To add list 14 to J23256D for calls-waiting feature.
- (d) To change lists 1 and 5 and remove list 6 in J23256G.
- (e) To change lists 1 and 2 in J23256H.
- (f) To rate list 1 Mfr Disc. and add list 2 in J23256R.
- (g) To change list 2 in J23256W.
- (h) To change Note B and add Note C in J23256AD.
- (i) To make minor miscellaneous changes.

DESCRIPTION

1.03 The equipment covered by this specification provides a manually controlled testing arrangement at the master test frame for testing incoming, intraoffice, outgoing, recording completing, special service, vacant code, tandem, intertoll, intermarker group, and other miscellaneous central office trunk circuits appearing on trunk link frames in message register or AMA-type offices. Means are also provided to assist in making tests on originating registers using the portable register test set.

1.04 This manual testing arrangement, covered in SD-25918-01, is for use on master test frames J23252U or J23252A, both rated A&M Only, or J23252AJ.

1.05 The relay equipment is assembled on 11 surface-wired units; three mounted on the left control bay, one on the right control bay, one on the auxiliary master test frame (or a miscellaneous relay rack), and 17 on miscellaneous relay racks. For units mounted on test frames, all interunit wiring and other frame wiring associated with these units is included in the bay local cable.

1.06 Units Mounted on the Control Bays:
J23256A is a unit with four mounting plates and contains the common equipment. **J23256B** is a supplementary trunk test unit which is always required in addition to J23256A. It consists of either one or two mounting plates of apparatus. **J23256C** is an optional unit with two mounting plates required in offices with intertoll and/or CAMA trunks. **J23256D** is a unit with one mounting plate always required.

1.07 Units Mounted on the Auxiliary Master Test Frame: **J23256E** is a 1-plate unit

required when WADS trunks are to be tested. When the auxiliary frame is not provided, the unit is relay rack mounted.

1.08 Units Mounted on Miscellaneous Relay

Racks: *J23256F* is an optional 6-plate unit required to test 4-wire multilevel preemption trunks. *J23256G* is an optional 1-plate unit required when phase III centrex service is provided with a 608A switchboard, when 4-wire multilevel preemption trunks are tested, when 2-way off-net access lines are provided, and/or in an automatic call distribution (ACD) office. *J23256H* is an optional 2-plate unit required when simulated 2-wire trunks, direct access to No. 101 ESS trunks, and/or range extension for Unigauge cabling is provided. *J23256J* is a 1-plate optional unit required in offices which connect to an ACD office and/or in offices with the multilevel preemption feature. *J23256K* is a 1-plate optional unit required in offices equipped with 2-way off-net access lines (ONAL) and/or TOUCH-TONE® dial remote control. *J23256L* is a 1-plate unit that is always required for the trunk test circuit. *J23256M* is a 1-plate optional unit required when range extension for Unigauge cabling is provided. *J23256P* is a 3-plate optional unit required when wideband and/or bit-stream switching service with operator trunks is provided. *J23256R* is a 1-plate optional unit required when wideband and/or bit-stream switching is provided. *J23256S* is a 1-plate optional unit required when dial-tone-first is provided. *J23256T* is a 2-plate optional unit required when office is arranged to test centrex multilevel precedence preemption 2-wire trunks. *J23256U* is a 1-plate optional unit required when office is arranged for 4-wire multilevel preemption. *J23256W* is a 1-plate optional unit required when office is arranged to test 2-way auxiliary lines providing access between local and CCSA offices. *J23256Y* is a 1-plate

optional unit required when office is arranged to test 2-way auxiliary line signaling between local and CCSA offices. *J23256Z* is a 2-plate optional unit required when office is arranged to test centrex centralized attendant feature. *J23256AA* is a 2-plate unit required when an office is arranged for tandem trunk loop-around transmission testing or 2-dB test pad utilization for tandem originating test lines. *J23256AB* is a 2-plate optional unit required when office is arranged for call-waiting feature. *J23256AC* is a 3-plate unit required in an office arranged for toll trunk loop-around transmission testing; or 2-dB test pad application for toll originating test lines. *J23256AD* is a 6-plate unit required in an office arranged for the automatic recycle feature. *J23256AF* is a 1-plate unit required when an office is arranged for bit-stream switching feature. *J23256AG* is a 3-plate unit required for multiple wink coin signaling coin service improvements when outgoing trunks to TSP(S) are provided. *J23256AJ* is a 1-plate unit required when outgoing trunks without coin service improvements to a TSP(S) are provided. *J23256AK* is a 2-plate unit required for the 911 emergency reporting service feature.

1.09 The key and lamp equipment used with this circuit is mounted in the key and lamp panel assembly in the right-hand bay of the master test frame control bays.

1.10 Units Mounted on Master Test Frame

Jack Bay for ACD *J23256N* is a 2-plate optional unit required in an ACD office for class tone detection when some or all positions are located in a distant building. *J23256AE* is a 1-plate unit always required in an ACD office for ACD intercept line testing. *J23256AH* is a 1-plate unit required in an ACD office to provide close down service feature.

SUBDIVISIONS OF EQUIPMENT AND DETAILED INDEX

WE J drawings should be ordered by referring to the prefix and base number and requesting the current dash (—) number.

EQUIP CODE	RATING	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLTS PER UNIT
J23256A	AT&TCo Std	Trunk Test Unit	J23256A-()	SD-25918-01 Fig. 1,5,6,7,10, G,J	1	4
J23256B	AT&TCo Std	Supl Trk Tst Unit A	J23256B-()	SD-25918-01 Fig. 1,2,4,12	1	1 or 2
J23256C	AT&TCo Std	Intertoll & CAMA Trk Tst Unit	J23256C-()	SD-25918-01 Fig. 8,11,D	1	2
J23256D	AT&TCo Std	Supl Trk Tst Unit B	J23256D-()	SD-25918-01 Fig. 1,8,13,14, 15,18,P	1	1
J23256E	AT&TCo Std	WADS Wideband Trk Tst Unit	J23256E-()	SD-25918-01 Fig. 1,16 SD-94820-01 Fig. 2	1	1
J23256F	AT&TCo Std	4-Wire Multilevel Preemption Trk Tst Unit	J23256F-()	SD-25918-01 Fig. 19,26	1	6
J23256G	AT&TCo Std	Supl Trk Tst Unit C	J23256G-()	SD-25918-01 Fig. 1,14,19	1	1
J23256H	AT&TCo Std	Supl Trk Tst Unit D	J23256H-()	SD-25918-01 Fig. 1,22,P	1	2
J23256J	AT&TCo Std	Supl Trk Tst Unit E	J23256J-()	SD-25918-01 Fig. 1,19	1	1
J23256K	AT&TCo Std	Supl Trk Tst Unit F	J23256K-()	SD-25918-01 Fig. 1, 11	1	1
J23256L	AT&TCo Std	Supl Trk Tst Unit G	J23256L-()	SD-25918-01 Fig. 1,G,8	1	1
J23256M	AT&TCo Std	Range Extension Trunk Tst Unit	J23256M-()	SD-25918-01 Fig. 1, WA Opt	1	1
J23256N	A&M Only	Trunk Tst Class Tone Detector Unit	J23256N-()	SD-25918-01 Fig. 24	1	2

EQUIP CODE	RATING	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLTS PER UNIT
J23256P	AT&TCo Std	Wideband and/or Bit-Stream Trk Tst Unit	J23256P-()	SD-25918-01 Fig. 25 and 36	1	3
J23256R	AT&TCo Std	Wideband and/or Bit-Stream Switching Tst Unit	J23256R-()	SD-25918-01 Fig. 20, 27	1	1
J23256S	AT&TCo Std	Trk Tst Dial-Tone-First Unit	J23256S-()	SD-25918-01 Fig. 1, J	1	2
J23256T	AT&TCo Std	Centrex MLPP 2-Wire Trk Tst Unit	J23256T-()	SD-25918-01 Fig. 28 SD-94820-01 Fig. 2	1	2
J23256U	AT&TCo Std	Supl 4-Wire MLP Trk Tst Unit	J23256U-()	SD-25918-01 Fig. 19	1	1
J23256W	AT&TCo Std	Supl Trk Tst Unit H	J23256W-()	SD-25918-01 Fig. 1	1	1
J23256Y	AT&TCo Std	2-Way Aux Line Sig Tst Unit	J23256Y-()	SD-25918-01 Fig. 29 SD-94820-01 Fig. 2	1	1
J23256Z	AT&TCo Std	Centrex Centralized Attendant Trk Tst Unit	J23256Z-()	SD-25918-01 Fig. 30 SD-94820-01 Fig. 2	1	2
J23256AA	AT&TCo Std	Tandem Trunk Loop- Around Transmission Test Unit	J23256AA-()	SD-25918-01 Fig. 7, 34	1	2
J23256AB	AT&TCo Std	Trk Tst Call-Waiting Unit	J23256AB-()	SD-25918-01 Fig. 31	1	2
J23256AC	AT&TCo Std	Toll Trunk Loop- Around Trans Test Unit	J23256AC-()	SD-25918-01 Fig. 33, 8	1	3
J23256AD	AT&TCo Std	Trk Tst Automatic Recycle Control Unit	J23256AD-()	SD-25918-01 Fig. 35 SD-94820-01 Fig. 2 and Fig. 3	1	6

EQUIP CODE	A&M Only	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLTS PER UNIT
J23256AE	A&M Only	ACD Intercept Line Test Unit	J23256AE-()	SD-25918-01 Fig. 1, RP Option	1	1
J23256AF	AT&TCo Std	Suppl Bit-Stream Trunk Test Unit	J23256AF-()	SD-25918-01 Fig. 37 and Fig. 38	1	1
J23256AG	AT&TCo Std	Coin Service Improvements Unit	J23256AG-()	SD-25918-01 Fig. 40	1	3
J23256AH	A&M Only	ACD Close Down Service Unit	J23256AH-()	SD-25918-01 Fig. 41 and 42	1	1
J23256AJ	AT&TCo Std	Suppl Trk Tst Unit J	J23256AJ-()	SD-25918-01 Fig. 43	1	1
J23256AK	AT&TCo Std	Suppl Trk Tst Unit K	J23256AK-()	SD-25918-01 Fig. 44 SD-94820-01 Fig. 2	1'	2

Circuit Schematic Index**CIRCUIT
DRAWING**

SD-25918-01
SD-25744-01
SD-94820-01
SD-25800-01

2. SUPPLEMENTARY INFORMATION

819-000-000—Numerical Index—No. 5 Crossbar
System—Equipment Design Requirements
J23060—819-753-150—Permanent Signal Equipment
Units
J23252—819-700-150—Master Test Frame
J23259—819-005-150—General Outline—No. 5 Crossbar
System
SD-25760-02—Current Drain Data Sheet

3. DRAWINGS

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

Keysheet

SD-25760-01—Crossbar System No. 5

Circuits

SD-25918-01—Trunk Test Circuit
SD-94820-01—Time Delay Control Circuit
SD-25744-01—MTF Telephone, Key, & Lamp Circuit
SD-25800-01—Master Test Frame Control Circuit

Equipment

ED-94859-()—Component Assembly Plug-In G1

4. EQUIPMENT**J23256A—AT&TCo Std—Trunk Test Unit**

Equipment—J23256A-()

List 2—A&M Only—Wiring and equipment per
SD-25918-01, Fig. 5, required in addition
to list 1 for offices with message registration.

List 3—A&M Only—Wiring and equipment per
SD-25918-01, Fig. 6, required in addition
to list 1 for offices with superimposed
ringing.

List 4—A&M Only—Wiring and equipment per SD-25918-01, Fig. 7, required in addition to list 1 for offices having tandem trunks.

List 5—A&M Only—Wiring and equipment per SD-25918-01, Fig. 9, required in addition to list 1 for offices having intermarker group trunks.

List 6—A&M Only—Wiring and equipment per SD-25918-01, Fig. G, required in addition to list 1 for offices having intertoll trunks arranged for outgoing service with CX or CX and reverse-battery supervision.

List 7—A&M Only—Wiring and equipment per SD-25918-01, Fig. J, less options, required in addition to list 1 for offices arranged for originating register test without the automatic monitor, register, and sender test circuit.

List 8—A&M Only—Wiring and equipment per SD-25918-01, Fig. J, ZN option, required in addition to lists 1 and 7 for offices arranged for originating register test and any tip-party station ground greater than $1000\Omega \pm 10$ percent.

List 9—Assembly, wiring, and equipment per SD-25918-01, Fig. 1, 5, 6, 7, 10, G, and J, and ZN option. (See 5.01 through 5.03.)

List 10—AT&TCo Spl—Wiring and equipment to provide an additional terminating test line per SD-25918-01, Fig. 1, XU option only.

Notes

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

1. Wiring per SD-25918-01, Fig. 1, Y option, required in addition to list 1 or 9 in offices where the coin potential used for coin collect is positive.
2. Wiring per SD-25918-01, Fig. 1, X option, required in addition to list 1 or 9 in offices where the coin potential used for coin collect is negative.
3. Wiring per SD-25918-01, Fig. J, ZM option, required in addition to lists 1 and 7 or 9 for offices arranged for originating register test with no tip-party station ground greater than $1000\Omega \pm 10$ percent.
4. Wiring per SD-25918-01, Fig. J, ZN option, required in addition to list 9 for offices

arranged for originating register test and any tip-party station ground greater than $1000\Omega \pm 10$ percent.

5. Wiring per SD-25918-01, Fig. 1, YA option, required in addition to list 9 for offices with CAMA trunks.

B. Mfr Disc.—For equipment manufactured prior to Issue 18D of SD-25918-01 (see Note 104 for ZG, ZU, and ZV options), when wire spring trunks are added in existing offices where the trunk trip relay adjustments are not the same as for the added trunks, ZG, ZU, or ZV options (P and Q resistors) must be furnished.

C. For improved pretrip and trip testing of the ringing trip (RT) relays in incoming and intraoffice trunks, option ZW, ZV, ZU, ZG, or ZF, if provided, must be removed and replaced by QQ, QP, QO, or QN option as required. (P and Q resistors.)

J23256B—AT&TCo Std—Supplementary Trunk Test Unit A

Equipment—J23256B-()

List 2—A&M Only—Recorder lamps per SD-25918-01, Fig. 4, required in addition to list 1 for each AMA recorder in the office other than the first two.

List 3—Assembly, wiring, and equipment per SD-25918-01, Fig. 1, WW option, Fig. 2 and 12, and YA and YE options, for one supplementary trunk test unit A required in offices equipped for LAMA and/or CAMA. (See Notes A and C, and 5.01 through 5.03.)

List 4—Assembly, wiring, and equipment per SD-25918-01, Fig. 1, WW option, and Fig. 12 for one supplementary trunk test unit A required in offices not equipped for LAMA or CAMA. (See Notes A and B, and 5.01 through 5.03.)

List 5—A&M Only—Wiring and equipment per SD-25918-01, Fig. 1, YS option (BR resistor only), required when both console and 608A switchboard operation are required in phase I centrex offices presently arranged for console operation only. (See Notes A.3 and D, and 5.03.)

List 8—Wiring and equipment required in addition to list 3 or 4 for offices equipped with

2-way off-net access lines per SD-25918-01, Fig. 1, WX option.

Notes

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

1. Wiring per SD-25918-01, Fig. 2, ZA option, required in addition to list 1 or 3 when the automatic progression trunk test circuit, or remote office test line circuit, or trunk test register circuit (wideband), or line verification circuit is provided.
2. Wiring per SD-25918-01, Fig. 2, A option, required in addition to list 1 or 3 when the automatic progression trunk test circuit, or remote office test line circuit, or trunk test register circuit (wideband), or line verification circuit is not provided.
3. A&M Only—Wiring per SD-25918-01, Fig. 1, YR and YV options only, required when both console and 608A switchboard operation are required in phase I centrex offices presently arranged for 608A switchboard operation only. (See Note D.)

B. A&M Only—When ANI is added to an office with trunk test equipment manufactured prior to SD-25918-01, Issue 25AC, and LAMA or CAMA is not provided, J23256B, List 4 must be furnished.

C. When LAMA and/or CAMA is added to an office equipped with trunk test equipment per J23256B, List 4, the equipment per list 4 must be removed and J23256B, List 3 added.

D. A&M Only—When both console and 608A switchboard operation are required in phase I centrex offices presently arranged for operation with 608A switchboards only, H599-222, List 4 must be provided. J23256B, List 5 and Note A.3 can be applied only to offices when phase I centrex service was provided initially.

J23256C—AT&T Co Std—Intertoll and CAMA Trunk Test Unit

Equipment—J23256C()

List 5—Assembly, wiring, and equipment per SD-25918-01, Fig. 8, and YA option, and Fig. D, for one intertoll and CAMA trunk test unit required in offices having toll trunks with CX or SX supervision through the switches and/or CAMA trunks, and/or 2-wire centrex multilevel precedence preemption (MLPP), or where WADS trunks are to be tested. (See Note A and 5.01 through 5.03.)

List 6—Wiring and equipment required in addition to list 5 per SD-25918-01, Fig. 11, and YK option, when master test frame is equipped with the 4-wire feature.

List 7—Wiring and equipment required in addition to list 6 in offices arranged for the 4-wire multilevel preemption feature per SD-25918-01, Fig. 8, XY option only, and Fig. 11, XW option only.

Note

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

1. A&M Only—Wiring per SD-25918-01, Fig. D, required in addition to list 1 for offices with nonpad control on intertoll trunks.
2. Wiring per SD-25918-01, Fig. 8, Z option, required in addition to list 1 or 5 when office connects to No. 4 or 5 toll testboard.
3. When the master test frame is not equipped with the 4-wire feature, YJ wiring must be connected.

J23256D—AT&T Co Std—Supplementary Trunk Test Unit B

Equipment—J23256D()

List 1—Assembly, wiring, and equipment per SD-25918-01, Fig. P, required for one supplementary trunk test unit B. (See 5.01 through 5.04.)

List 2—Wiring and equipment per SD-25918-01, Fig. 13, required in addition to list 1 when phase II or III centrex is provided. (See 5.01 through 5.03.)

List 3—Wiring and equipment per SD-25918-01, Fig. 14, required in addition to list 1 when phase II or III centrex service is provided with 608A switchboard and/or when 2-way

off-net access service is provided. (See 5.01 through 5.03.)

List 5—Wiring and equipment per SD-25918-01, Fig. 1, WT option only, required in addition to list 1 in offices having intertoll and/or CAMA trunks, or 2-way off-net access lines or 4-wire multilevel preemptible trunks or when WADS trunks are to be tested, or for an automatic call distribution office. (See Note B and 5.01 through 5.03.)

List 6—Wiring and equipment per SD-25918-01, Fig. 18, required in addition to list 2 when phase II centrex service is provided with dial transfer or when phase III centrex is provided. (See 5.01 through 5.03.)

List 7—Wiring and equipment required once in addition to list 1 per SD-25918-01, Fig. 1, WU option only, for any of the following features:

- (a) Automatic call distribution (A&M Only).
- (b) Line link pulsing.
- (c) Direct access to No. 101 ESS.
- (d) 2-way off-net access.
- (e) Automatic intercept service.

List 11—Wiring and equipment required once in addition to list 1 per SD-25918-01, Fig. 15, for any of the following features:

- (a) Line link pulsing.
- (b) Direct access to No. 101 ESS.
- (c) Automatic intercept service.

List 12—Wiring and equipment required once in addition to list 1 per SD-25918-01, Fig. 1, TB option only, for any of the following features:

- (a) Line link pulsing.
- (b) Direct access to No. 101 ESS.
- (c) Calls-waiting.
- (d) Automatic intercept service.

List 13—Wiring and equipment required once in addition to list 1 or 12 per SD-25918-01, Fig. 1, SI, VB, YM option only, for any of the following features:

- (a) Line link pulsing.
- (b) Direct access to No. 101 ESS.
- (c) 2-way off-net access.
- (d) Automatic intercept service.
- (e) Calls-waiting.

List 14—Equipment and wiring per SD-25918-01, Fig. 20 required in addition to list 1 to provide for any of the following services:

- (a) 911 emergency reporting.
- (b) Wideband feature.
- (c) Calls-waiting.

Notes

- A. Reserved.
- B. A&M Only—Lists 2, 3, 4, and 5 may be provided without list 1.
- C. A&M Only—When phase I centrex trunks are arranged for dial transfer, J23256D, List 6 must be provided.

J23256E—AT&T Co Std—WADS Wideband Trunk Test Unit

Equipment—J23256E-()

List 2—Assembly and equipment (mounting plate and terminal strip only) for one WADS wideband trunk test unit required in offices arranged for testing WADS and/or interoffice wideband trunks. (See Note B and 5.01 through 5.03.)

List 3—Equipment and wiring required in addition to list 2 for testing WADS trunks per SD-25918-01, Fig. 16, and SD-94820-01, Fig. 2.

List 4—Equipment and wiring required in addition to list 2 for testing WADS and/or interoffice

wideband trunks per SD-25918-01, Fig. 1, WP option only.

Notes

- A. Reserved.
- B. The J23256E-() unit shall be mounted on the auxiliary master test frame J23252AH-(), if provided, or on a miscellaneous relay rack.

J23256F—AT&T Co Std—4-Wire Multilevel Preemption Trunk Test Unit

Equipment—J23256F-()

List 2—Assembly, wiring, and equipment for one 4-wire multilevel preemption and/or 4-wire off-network access control trunk test unit per SD-25918-01, Fig. 26. (See Notes B and D, and 5.01 through 5.03.)

List 3—Wiring and equipment per SD-25918-01, Fig. 19, less WI option, required in addition to list 2 when office is arranged for 4-wire multilevel preemption. (See Note C.)

Notes

- A. Reserved.
- B. This is a 6-plate unit and shall be mounted on a miscellaneous relay rack preferably above or below J23255AF-() and J23255AG-() for maintenance reasons.
- C. Apparatus per SD-25918-01, Fig. 19, WI option only, is included in list 3 of J23256G-().
- D. Supplementary 4-wire MLP trunk test unit J23256U is always required with this unit.

J23256G—AT&T Co Std—Supplementary Trunk Test Unit C

Equipment—J23256G-()

List 1—Assembly and equipment (mounting plate and terminal strip only) required for one supplementary trunk test unit C required when phase III centrex service is provided with a 608A switchboard, when 4-wire multilevel preemption trunks are tested, when testing the glare detection feature, and/or for an automatic call distribution

office, when 2-wire, 2-way, off-net access is provided. (See Note B.)

List 2—Equipment and wiring required in addition to list 1 when phase III centrex service is provided with a 608A switchboard per SD-25918-01, Fig. 14, XM option only. (See 5.01 and 5.02.)

List 3—Equipment and wiring required in addition to list 1 when 4-wire preemptible trunks are tested per SD-25918-01, Fig. 19, WI option only.

List 5—Equipment and wiring required in addition to list 1 when 2-wire, 2-way off-net access is provided per SD-25918-01, Fig. 14, QJ option only.

List 7—Equipment and wiring required in addition to list 1 when intertoll trunks and marker glare detection and/or 4-wire trunks with multilevel preemption, and/or 2-way off-net access lines are provided for SD-25918-01, Fig. 1, WE option only (less GL lamp).

Notes

- A. Reserved.
- B. This is a 1-plate unit and shall be mounted on a miscellaneous relay rack, preferably near other units of the master test frame.

J23256H—AT&T Co Std—Supplementary Trunk Test Unit D

Equipment—J23256H-()

List 1—Assembly, wiring, and equipment for one supplementary trunk test unit D required in offices equipped with 2-wire 2-way ONAL when simulated 2-wire trunk, direct access to No. 101 ESS trunks, range extension for Unigauge cabling, when trunk uses reverse-battery supervision through switches and E and M lead interoffice supervision, and/or loop-around transmission testing of 2-wire tandem trunks and/or when testing of 2-way auxiliary line circuit for access between local and CCSA offices is provided per SD-25918-01, Fig. 22. (See Notes A and B and 5.03.)

List 2—Wiring and equipment required in addition to list 1 when No. 101 ESS central office trunks are arranged for direct inward dialing on a direct access basis, or loop-around transmission testing of 2-wire tandem trunks

per SD-25918-01, Fig. 1, XZ option only, and Fig. P, WB option only. (See Note 5.03.)

Notes

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

1. Wiring required in addition to list 1 when trunk uses reverse-battery supervision through option.

B. This is a 2-plate unit and shall be mounted on a miscellaneous relay rack, preferably near other units of the master test frame.

J23256J—AT&TCo Std—Supplementary Trunk Test Unit E

Equipment—J23256J-()

List 1—Assembly and equipment (mounting plate and terminal strip only) for one supplementary trunk test unit E, required in an office which connects to an automatic call distribution office and/or when testing signal distortion of multilevel preemption interoffice trunks using distant office 103 trunk. (See Note B.)

List 2—Equipment and wiring required in addition to list 1 in an office which connects to an ACD office, per SD-25918-01, Fig. 1, UA and WZ options only (less key).

List 3—Equipment and wiring required in addition to list 1 when multilevel preemption is provided per SD-25918-01, Fig. 19, VV and VA option (less lamp).

Notes

A. Reserved.

B. This is a 1-plate unit and shall be mounted on a miscellaneous relay rack, preferably near other units of the master test frame.

J23256K—AT&TCo Std—Supplementary Trunk Test Unit F

Equipment—J23256K-()

List 1—Assembly and equipment (mounting plate and terminal strip only) for one supplementary

trunk test unit F, required in offices equipped with 2-way off-net access lines (ONAL). (See Note B.)

List 2—Equipment and wiring required in addition to list 1 in an office equipped with 2-way off-net access lines per SD-25918-01, Fig. 1, VF and VG options.

List 4—Wiring and equipment per SD-25918-01, Fig. 11, UX option, required in addition to list 2 in offices arranged for 4-wire, 2-way off-net access. (See Note 5.02.)

Notes

A. Reserved.

B. This is a 1-plate unit and shall be mounted on a miscellaneous relay rack frame, preferably near other master test frame units.

J23256L—AT&TCo Std—Supplementary Trunk Test Unit G

Equipment—J23256L-()

List 1—Assembly, equipment, and wiring for one supplementary trunk test unit G per SD-25918-01, Fig. G, VO option; Fig. 1, VL option. (See Note B.)

List 2—Wiring and equipment required in addition to list 1 in offices arranged for 2-way off-net access service per SD-25918-01, Fig. 1, VF option only.

List 3—Wiring and equipment required in addition to list 1 in offices arranged to test 2-way trunk circuits for access between centrex and Autovon offices and for calls-waiting feature per SD-25918-01, Fig. 1, TO option.

List 4—Wiring and equipment required in addition to list 1 when office is a primary office arranged for centrex centralized attendant per SD-25918-01, Fig. 1, SC option only.

List 5—Wiring and equipment required in addition to list 1 when office is a secondary office arranged for centrex centralized attendant per SD-25918-01, Fig. 1, SD option only.

List 6—Wiring and equipment per SD-25918-01, Fig. 8, SV option only, when lockout of the second toll testboard patching, monitoring, and testing jacks circuit is required from the MTF jack, lamp, and key circuit.

List 7—Wiring and equipment per SD-25918-01, Fig. 1, QF option only to provide for testing, without operator assistance, of

outgoing trunks, not arranged for coin service improvements, outgoing to a TSP(S).

Notes

- A. Reserved.
- B. This unit is always required for the trunk test circuit and shall be mounted on a miscellaneous relay rack frame preferably near other master test frame units.

J23256M—AT&T Co Std—Range Extension Trunk Test Unit

Equipment—J23256M-()

- List 1**—Assembly, wiring, and equipment required for making transmission tests on range extender circuits per SD-25918-01, Fig. 1, WA option (less keys). (See Note B.)

Notes

- A. Reserved.
- B. This unit shall be mounted on a miscellaneous relay rack frame preferably above or below the J23256H unit for maintenance reasons.

J23256N—A&M Only—Trunk Test Class Tone Detector Unit

Equipment—J23256N-()

- List 1**—Assembly, wiring, and equipment for one class tone detector unit required in an ACD office when some or all attendant positions are located in a distant building per SD-25918-01, Fig. 24 (less lamps). (See Note B.)

Notes

- A. Reserved.
- B. This 2-plate unit shall be mounted on the master test frame jack bay for ACD. The lamps of Fig. 24 are located on the master test frame control bay.

J23256P—AT&T Co Std—Wideband and/or Bit-Stream Trunk Test Unit

Equipment—J23256P-()

- List 1**—Assembly, wiring, and equipment for one wideband and/or bit-stream trunk test unit required when wideband and/or bit-stream switching service with operator trunks is provided per SD-25918-01, Fig. 25 and 36.

- List 2**—Wiring and equipment per SD-25918-01, Fig. 1, QA option only, required in addition to list 1 when the wideband office is arranged for phase III centrex.

Notes

- A. Reserved.
- B. This unit shall be mounted on a miscellaneous relay rack frame preferably near other master test frame units.

J23256R—AT&T Co Std—Wideband and/or Bit-Stream Switching Test Unit

Equipment—J23256R-()

- List 2**—Assembly, wiring, and equipment per SD-25918-01, Fig. 27, SF option for one wideband switching trunk test unit required for wideband switching feature. (See Note B.)

Notes

- A. Reserved.
- B. This unit shall be mounted on a miscellaneous relay rack frame preferably near other master test frame units.

J23256S—AT&T Co Std—Trunk Test Dial-Tone-First Unit

Equipment—J23256S-()

- List 2**—Equipment and wiring required in addition to list 1 or 4 when overtime coin deposit feature is provided per SD-25918-01, Fig. 1, TD option only.

- List 4**—Assembly, wiring, and equipment for one trunk test dial-tone-first unit per SD-25918-01,

Fig. 1, RO and TF options, and Fig. J, UZ option. (See Note B.)

Notes

- A. Reserved.
- B. This is a 1-plate unit and shall be mounted on a miscellaneous relay rack frame, preferably near other master test frame units.

J23256T—AT&TCo Std—Centrex Multilevel Precedence Preemption 2-Wire Trunk Test Unit

Equipment—J23256T-()

List 1—Assembly, wiring, and equipment required for one centrex MLPP 2-wire trunk test unit per SD-25918-01, Fig. 28, and one timer per SD-94820-01, Fig. 2.

List 2—Wiring and equipment per SD-25918-01, Fig. 28, RW option required in addition to list 1 when 2-way trunks are arranged for attendant console operation.

Notes

- A. Reserved.
- B. This is a 2-plate unit and shall be mounted on a miscellaneous relay rack frame, preferably near other master test frame units.

J23256U—AT&TCo Std—Supplementary 4-Wire Multilevel Preemption Trunk Test Unit

Equipment—J23256U-()

List 1—Assembly, wiring, and equipment required for one supplementary 4-wire multilevel preemption trunk test unit per SD-25918-01, Fig. 19, TY option only. (See Note B.)

Notes

- A. Reserved.
- B. This unit is always required in addition to 4-wire MLP trunk test unit J23256F. This is a 1-plate unit and shall be mounted on a miscellaneous relay rack frame preferably near other master test frame units.

J23256W—AT&TCo Std—Supplementary Trunk Test Unit—H

Equipment—J23256W-()

List 1—Assembly and equipment (mounting plate and terminal strip only) for one supplementary trunk test unit H, required in offices arranged to test 2-way auxiliary line circuits providing access between local and CCSA offices. (See Note B.)

List 2—Wiring and equipment required in addition to list 1 in an office arranged for testing 2-way auxiliary line circuits providing access between local and CCSA offices per SD-25918-01, Fig. 1, TU option only.

Notes

- A. Reserved.
- B. This is a 1-plate unit and shall be mounted on a miscellaneous relay rack frame, preferably near other master test frame units.

J23256Y—AT&TCo Std—2-Way Auxiliary Line Signaling Test Unit

Equipment—J23256Y-()

List 1—Assembly, wiring, and equipment for one 2-way auxiliary line signaling test unit for access between local and CCSA offices per SD-25918-01, Fig. 29, and two timers per SD-94820-01, Fig. 2. (See Note B.)

Notes

- A. Reserved.
- B. This is a 1-plate unit and shall be mounted on a miscellaneous relay rack frame preferably near other master test frame units.

J23256Z—AT&TCo Std—Centrex Centralized Attendant Trunk Test Unit

Equipment—J23256Z-()

List 1—Assembly, wiring, and equipment for one centrex centralized attendant trunk test unit per SD-25918-01, Fig. 30, less options. (See Note B.)

List 2—Wiring and equipment required in addition

to list 1 when office is a primary office per SD-25918-01, Fig. 30, option TS and Fig. 1, RA option only.

- List 3**—Wiring and equipment required in addition to list 1 when office is a secondary office per SD-25918-01, Fig. 30, option TT only, and one timer per SD-94820-01, Fig. 2.

Notes

- A. Reserved.
- B. This 2-plate unit shall be mounted on a miscellaneous relay rack frame, preferably near other master test frame units.
- C. The dual channel receiver unit (J23058 spec) is required with this unit in a centrex primary office and should be located near the maintenance center.

J23256AA—AT&TCo Std—Tandem Trunk Loop-Around Transmission Test Unit

Equipment—J23256AA-()

- List 1**—Assembly and equipment (mounting plates and terminal strips only) for one tandem trunk loop-around transmission test unit.
- List 2**—Wiring and equipment required in addition to list 1 to provide loop-around transmission testing of 2-wire tandem trunks per SD-25918-01, Fig. 34.
- List 3**—Wiring and equipment required in addition to list 1 to provide a 2-dB pad for tandem originating test lines per SD-25918-01, Fig. 7, SJ and RF options only.
- List 4**—Wiring and equipment required in addition to list 3 to provide additionally required pads for loop-around transmission testing of 2-wire tandem trunks per SD-25918-01, Fig. 7, SK option only.
- List 5**—Wiring and equipment required in addition to list 3 to provide additionally required pads for testing 4-wire trunks in a tandem mode per SD-25918-01, Fig. 7, SL option only.

Notes

- A. Reserved.
- B. This is a relay rack mounted unit.

J23256AB—AT&TCo Std—Trunk Test Call-Waiting Unit

Equipment—J23256AB-()

- List 1**—Assembly, wiring, and equipment per SD-25918-01, Fig. 31, required for one trunk test call-waiting unit. (See Note B.)

Notes

- A. Reserved.
- B. This unit is to be mounted on a miscellaneous relay rack unit preferably near other master test frame units.

J23256AC—AT&TCo Std—Toll Trunk Loop-Around Transmission Test Unit

Equipment—J23256AC-()

- List 1**—Assembly and equipment (mounting plates and terminal strips only) for one toll trunk loop-around transmission test unit.
- List 2**—Wiring and equipment required in addition to list 1 to provide loop-around transmission testing of 2-wire toll trunks with CX or SX supervision through the switches per SD-25918-01, Fig. 33, less options.
- List 3**—Wiring and equipment required in addition to list 1 to provide a 2-dB pad for toll originating test line No. 1 per SD-25918-01, Fig. 8, TQ option only.
- List 4**—Wiring and equipment required in addition to list 1 to provide a 2-dB pad for toll originating test line No. 2 per SD-25918-01, Fig. 33, SY option only.

Notes

- A. Reserved.
- B. This is a 3-plate unit mounted on a miscellaneous relay rack frame preferably in the maintenance center.

J23256AD—AT&TCo Std—Trunk Test Automatic Recycle Control Unit

Equipment—J23256AD-()

- List 1**—Assembly, wiring, and equipment per SD-25918-01, Fig. 35 and SD-94820-01, two

Fig. 2 and two Fig. 3 for one automatic recycle control unit. (See Notes B and C.)

Notes

- A. Reserved.
- B. This is a 7-plate unit mounted on a miscellaneous relay rack frame, preferably in the maintenance center.
- C. Tone detector unit J93020AH is required for connection to this unit. If a tone detector used with the test termination circuit exists in the office it may be time-shared with this unit. Switchboard cable leads shall be multiplied at the tone detector unit located on a miscellaneous relay rack frame.

J23256AE—A&M Only—ACD Intercept Line Test Unit

Equipment—J23256AE-()

List 1—Assembly, wiring, and equipment per SD-25918-01, Fig. 1, RP option, for one ACD intercept line test unit (less keys). (See Note B.)

Notes

- A. Reserved.
- B. This single-plate unit shall be located on the MTF jack bay for ACD. The keys associated with Fig. 1, RP option, are located on the MTF control bay.

J23256AF—A T & T Co Std—Supplementary Bit-Stream Trunk Test Unit

Equipment—J23256AF-()

List 1—Assembly, equipment, and wiring per SD-25918-01, Fig. 37, required in an office arranged for bit-stream service.

List 2—Equipment and wiring per SD-25918-01, Fig. 38, required in addition to list 1 when delayed call operator trunks are provided.

Notes

- A. Reserved.

- B. This single-plate unit shall be relay rack mounted preferably in or near the maintenance center area with other test circuit units.

J23256AG—A T & T Co Std—Coin Service Improvements Unit

Equipment—J23256AG-()

List 1—Assembly, equipment, and wiring per SD-25918-01, Fig. 40 to provide for testing of outgoing trunks, arranged for coin service improvements (multiple wink coin control) outgoing to a TSP(S).

Notes

- A. Reserved.
- B. This is a 3-plate miscellaneous relay rack mounted unit.

J23256AH—A&M Only—ACD Close Down Service Unit

Equipment—J23256AH-()

List 1—Assembly, wiring, and equipment per SD-25918-01, Fig. 41 for one ACD close down service unit (less keys and lamps). (See Note B.)

List 2—Equipment and wiring per SD-25918-01, Fig. 42 in addition to list 1 to provide operator transfer in an ACD office.

Notes

- A. Reserved.
- B. This single-plate unit shall be located on the MTF jack bay for ACD. The keys and lamps associated with Fig. 41 and 42 are located on the MTF control bay.

J23256AJ—A T & T Co Std—Supplementary Trunk Test Unit J

Equipment—J23256AJ-()

List 1—Assembly, equipment, and wiring per SD-25918-01, Fig. 43 to provide for testing, without operator assistance, of outgoing trunks, not arranged for coin service improvements, outgoing to a TSP(S).

Notes

- A. Reserved.
- B. This unit mounts on a miscellaneous relay rack frame, this is a single-plate unit (option AL).

J23256AK—AT&T Co Std—Supplementary Trunk Test Unit K

Equipment—J23256AK-()

List 1—Assembly, equipment, and wiring per SD-25918-01, Fig. 44 and SD-94820-01, Fig. 2 to provide for the 911 emergency reporting service feature.

Notes

- A. This unit is always provided.
- B. This is a 2-plate relay rack mounted unit.
- C. The J23256R unit is also required for 911 service.

5. GENERAL NOTES

5.01 Surface wiring shall be used between components on the same unit except for optional wiring which may be connected in the field.

5.02 All wiring not provided as surface wiring, including all optional wiring which may be connected in the field, shall be included in the bay local cable for the master test frame control bays per J23252AJ.

5.03 All panel or frame mounted keys, lamps, and jacks per SD-25918-01 required for operation of this circuit are specified in J23252U, List 1 (Mfr Disc.) or J23252AJ, List 1, and are shown on drawing J23252U-() (A&M Only), or J23252AJ-().

5.04 Key adapters, designation strips, lamp sockets, and mountings, key spaces, and jack spaces for use in the key and lamp panel in the control bay shall be provided as shown on ED-26611-01, Fig. Y, rated A&M Only.

5.05 Originating and terminating test line numbers shall be assigned for use with the trunk

testing facilities on the master test frame in accordance with Note 301 on SD-25918-01.

List of A&M Only and Mfr Disc. Equipment

EQUIPMENT	RATING	DETAILS	
		LAST SHOWN IN ISSUE	REPLACEMENT EQUIPMENT
J23256A,L1	Mfr Disc.	3	J23256A,L9
L2			
to L8	A&M Only	4	J23256A,L9
L11	Mfr Disc.	11	—
J23256B,L1	Mfr Disc.	3	J23256B,L3
L2	A&M Only	4	J23256B,L3
L5	A&M Only	5	—
L6	Mfr Disc.	14	J23256B,L8
L7	Mfr Disc.	12	J23255BE,L2
J23256C,L1	Mfr Disc.	3	J23256C,L5
L2			
to L4	Mfr Disc.	3	—
J23256D,L4	Mfr Disc.	2	J23256D,L9
L8	Mfr Disc.	13	J23256D,L11 and L12
L9	Mfr Disc.	13	J23256D,L13
L10	Mfr Disc.	11	—
J23256E,L1	Mfr Disc.	9	J23256E,L2, L3,L4
J23256F,L1	Mfr Disc.	9	J23256F,L2 and L3
J23256G,L4	Mfr Disc.	14	J23256G,L7
J23256K,L3	Mfr Disc.	9	—
J23256N,L1	A&M Only	14	J23266A
J23256R,L1	Mfr Disc.	15	J23256R, L2 and J23256D,L14
J23256S,L1	Mfr Disc.	12	J23256S,L4
L3	Mfr Disc.	12	
J23256AE,L1	A&M Only	14	J23266A
J23256AH,L1	A&M Only	14	J23266A
L2	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.

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