

**AUTOMATIC MONITOR, REGISTER, AND SENDER TEST EQUIPMENT UNITS
MOUNTED ON AUTOMATIC MONITOR,
REGISTER AND SENDER TEST BAYS—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 wiring to be used in the manufacture and installation of automatic monitor, register, and sender test circuit units which form a part of the master test frame used in the No. 5 Crossbar System.

1.02 This specification is reissued:

- (a) To bring J23253 into agreement with SD-25680-01, Issues 89D and 90A.
- (b) To arrange the automatic monitor to function with originating registers or outgoing senders that are equipped to handle IDDD calls but are not equipped with the end-of-dialing and/or 12 digit. J23253AM, List 5 is revised, J23253CG, List 3 is added. J23253CJ, Lists 1 and 2 are rated Mfr Disc., list 3 is revised and list 4 is added. J23253CK, List 1 and Note B are revised.
- (c) To incorporate changes made per Addendum Issues 1 and 2.

1.03 The units listed herein, together with units of J23255, J23256, and J23258 are the "building blocks" for the master test frame which is covered in specification J23252. The equipment on each unit is surface wired with optional wiring and wiring which runs off the units furnished as part of the automatic monitor, register and sender test, or auxiliary register and sender test bay local cables. Each unit is made up of 2-inch mounting plates 23 inches long, except for J23253A which, in addition to 2-inch mounting plates, includes an 8-inch wide panel; and J23253AF, J23253AG, J23253BH, and J23253BJ which, in addition to 2-inch mounting plates, include a 4-inch wide panel. The keys and lamps associated with the units are mounted on the key and lamp panel of the auxiliary control bay of the master test frame. Keys and lamps are wired in the control bay local cable to terminal strips at the top of the control bay and connected by means of switchboard cables to terminal strips at the top of the automatic monitor, register and sender test, and auxiliary register and sender test bays. Bay local cables complete the connection to the units. The J23253CC, J23253CE, J23253CF, J23253CJ, and J23253CK units are mounted on a miscellaneous relay rack frame.

SUBDIVISIONS OF EQUIPMENT AND DETAILED INDEX

WECo 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
J23253A	AT&TCo Std	Dial Pulse Amplifier, Repeater, & Bias Con- trol Unit	J23253A-()	SD-25680-01, Fig. 13	1	6
J23253B	AT&TCo Std	Dial Pulse Counting Unit	J23253B-()	SD-25680-01, Fig. 15, 16, 17, & AD	1	4
J23253C	AT&TCo Std	MF Amplifier Unit	J23253C-()	SD-25680-01, Fig. 12	1	2
J23253D	AT&TCo Std	Monitor Controller Unit	J23253D-()	SD-25680-01, Fig. 1	1	4
J23253E	AT&TCo Std	Monitoring Allotter Unit	J23253E-()	SD-25680-01, Fig. 2	1	4
J23253F	AT&TCo Std	Marker Pref Unit	J23253F-()	SD-25680-01, Fig. 6, 7, & 8	1-4	1
J23253G	AT&TCo Std	Sdr Grp Sel Unit	J23253G-()	SD-25680-01, Fig. 25	1-6	1
J23253H	AT&TCo Std	Stg, Reg, & Matching Rel for One Digit	J23253H-()	SD-25680-01, Fig. 16	1	1
J23253J	AT&TCo Std	Stg, Reg, & Matching Rel Cont Unit	J23253J-()	SD-25680-01, Fig. 16	1	2
J23253K	AT&TCo Std	Code Rte Digit of Stg, Reg, & Match- ing Rel Unit	J23253K-()	SD-25680-01, Fig. 16	1	1
J23253L	AT&TCo Std	Stg, Reg, & Matching Rel for First Digit Unit	J23253L-()	SD-25680-01, Fig. 16	1	1
J23253M	AT&TCo Std	Inc Reg Grp Conn. & Sel Unit	J23253M-()	SD-25680-01, Fig. 3, 4, 5, 22, & 24	1	3
J23253N	AT&TCo Std	Tst Controller Cont Unit	J23253N-()	SD-25680-01, Fig. 9, A, & P	1	4

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLTS PER UNIT
J23253P	AT&TCO Std	Orig Reg Tst Controller Com Rel Unit	J23253P-()	SD-25680-01, Fig. 11, Z, & 16, 18	1	4
J23253R	AT&TCO Std	Orig Reg Tst Controller Cn Tmg Unit	J23253R-()	SD-25680-01, Fig. 11	1	4
J23253S	AT&TCO Std	Inc Reg Tst Controller Cont Unit	J23253S-()	SD-25680-01, Fig. 18 & 20	1	4
J23253T	AT&TCO Std	Inc Reg Tst Controller Wink Unit	J23253T-()	SD-25680-01, Fig. 32	1	1
J23253U	AT&TCO Std	Sdr Tst Cont Unit	J23253U-()	SD-25680-01, Fig. 17 & 45	1	4
J23253V	AT&TCO Std	Class Abandoned Call, & AMA Sdr Tst Unit	J23253V-()	SD-25680-01, Fig. 17	1	2
J23253W	AT&TCO Std	Conn. Controller Unit	J23253W-()	SD-25680-01, Fig. 10	1	4
J23253Y	AT&TCO Std	Revertive Reg Tst Pulse Ctg Unit	J23253Y-()	SD-25680-01, Fig. 33	1	2
J23253AA	AT&TCO Std	Trk Lk Fr & Trk Ident Unit	J23253AA-()	SD-25680-01, Fig. 27 & 31	1	3
J23253AB	AT&TCO Std	Tdm Trk Ident Unit	J23253AB-()	SD-25680-01, Fig. 30	1	1
J23253AC	AT&TCO Std	L Ident Unit	J23253AC-()	SD-25680-01, Fig. 28	1	2
J23253AD	AT&TCO Std	Mkr Ident Unit	J23253AD-()	SD-25680-01, Fig. 27, 29, & 30	1	1
J23253AE	AT&TCO Std	Outpulse Steerer Unit	J23253AE-()	SD-25680-01, Fig. 18, 11	1	3
J23253AF	AT&TCO Std	Dial Pulse Gen Pulsing & Ctg Rel Unit	J23253AF-()	SD-25680-01, Fig. 26	1	3
J23253AG	AT&TCO Std	Dial Pulse Gen Interrupter Rel Unit	J23253AG-()	SD-25680-01, Fig. 26	1	3
J23253AH	AT&TCO Std	Dial Pulse Gen Ctg Rel Unit	J23253AH-()	SD-25680-01, Fig. 26	1	4

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLTS PER UNIT
J23253AJ	AT&TCO Std	Dial Pulse Gen Cont Unit	J23253AJ-()	SD-25680-01, Fig. 26	1	3
J23253AL	AT&TCO Std	Fast Pulse Mf Gen Rel Unit	J23253AL-()	SD-25680-01, Fig. 21 & M	1	4
J23253AM	AT&TCO Std	Slow Pulse Mf Gen Rel Unit	J23253AM-()	SD-25680-01, Fig. 21 & 62 M & X, 70	1	3
J23253AN	AT&TCO Std	Tst Controller Tmg Unit	J23253AN-()	SD-25680-01, Fig. 9 & D	1	1
J23253AP	AT&TCO Std	Digit Tmg Tester Unit	J23253AP-()	SD-25680-01, Fig. 14	1	1
J23253AR	AT&TCO Std	Cont Unit to Tst Reg Arranged for 11X Serv or 11 Prefix Directing Codes	J23253AR-()	SD-25680-01, Fig. 16	1	1
J23253AS	AT&TCO Std	Inc Reg Tst Controller Class Check Unit	J23253AS-()	SD-25680-01, Fig. E, 20, & 50	1	3
J23253AT	AT&TCO Std	Cont Unit for Testing Sdr Arranged to Out- pulse Prefix XX	J23253AT-()	SD-25680-01, Fig. 16	1	1
J23253AU	AT&TCO Std	Panel Call Indicator Pulse Ampl Unit	J23253AU-()	SD-25680-01, Fig. 36 & R	1	2
J23253AW	AT&TCO Std	Revertive Ctg & Reg Cont Unit	J23253AW-()	SD-25680-01, Fig. 34	1	3
J23253AY	AT&TCO Std	Revertive Mon & Sdr Tst Ctg Unit	J23253AY-()	SD-25680-01, Fig. 34	1	2
J23253BA	AT&TCO Std	Revertive Reg Misc Tst Unit	J23253BA-()	SD-25680-01, Fig. 33	1	2
J23253BB	AT&TCO Std	Revertive No. Trnsl Unit	J23253BB-()	SD-25680-01, Fig. 33	1	2
J23253BC	AT&TCO Std	Revertive Reg Tst Stg Unit	J23253BC-()	SD-25680-01, Fig. 33	1	2
J23253BD	AT&TCO Std	Revertive Reg Tst Tmg Unit	J23253BD-()	SD-25680-01, Fig. 33	1	3

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLTS PER UNIT
J23253BE	AT&TCO Std	Revertive Sdr Tst Controller Unit	J23253BE-()	SD-25680-01, Fig. 40	1	3
J23253BF	AT&TCO Std	PCI Sdr Tst Con- troller Unit	J23253BF-()	SD-25680-01, Fig. 40 & T	1	2
J23253BG	AT&TCO Std	Revertive & PCI Sdr Tst Com Unit	J23253BG-()	SD-25680-01, Fig. 40	1	5
J23253BH	AT&TCO Std	Revertive Pulse Gen Interrupter Rel Unit	J23253BH-()	SD-25680-01, Fig. 40	1	3
J23253BJ	AT&TCO Std	Revertive Pulse Gen Pulsing Rel Unit	J23253BJ-()	SD-25680-01, Fig. 40	1	2
J23253BL	AT&TCO Std	PCI Reg Unit	J23253BL-()	SD-25680-01, Fig. 38	1	3
J23253BM	AT&TCO Std	PCI Stg Unit	J23253BM-()	SD-25680-01, Fig. 37	1	3
J23253BN	AT&TCO Std	Revertive Pulse Reg Unit	J23253BN-()	SD-25680-01, Fig. 35	1	5
J23253BP	AT&TCO Std	B Arbitrary Digit Cont Unit	J23253BP-()	SD-25680-01, Fig. 16	1	1
J23253BR	AT&TCO Std	A Arbitrary Digit Cont &/or Loc ANI Unit	J23253BR-()	SD-25680-01, Fig. 16 & V	1	2
J23253BS	AT&TCO Std	Dial Pulse Sdr AG Tmr Tst Unit	J23253BS-()	SD-25680-01, Fig. 43	1	1
J23253BT	AT&TCO Std	Dial Pulse Gen Ringing Tst Unit	J23253BT-()	SD-25680-01, Fig. 26	1	1
J23253BU	AT&TCO Std	Trk Lk & Trk Ident Unit	J23253BU-()	SD-25680-01, Fig. 27 & 31	1	1
J23253BW	AT&TCO Std	PCI Trfr Unit	J23253BW-()	SD-25680-01, Fig. 39	1	1
J23253BX	AT&TCO Std	Prefix Digit Test Unit	J23253BX-()	SD-25680-01, Fig. 16, 18, & AB	1	1
J23253BY	AT&TCO Std	Stg Reg & Matching Rel for Eighth or Eleventh Digit Unit	J23253BY-()	SD-25680-01, Fig. 16	1	1

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKTS PER UNIT	MTG PLTS PER UNIT
J23253BZ	AT&TCo Std	Transfer Register Test Unit	J23253BZ-()	SD-25680-01, Fig. 9, 20, 51 & 58	1	3
J23253CA	AT&TCo Std	Range Extension and Toll Diversion Test Unit	J23253CA-()	SD-25680-01, Fig. 9, 13, 26	1	1
J23253CB	AT&TCo Std	OR Translator Indica- tion Tst Unit	J23253CB-()	SD-25680-01, Fig. 14, 53, 54 & 66	1	1
J23253CC	AT&TCo Std	4-Wire Test Unit	J23253CC-()	SD-25680-01, Fig. 55, 56, & 61	1	4
J23253CD	AT&TCo Std	Control Digit Steering Unit	J23253CD-()	SD-25680-01, Fig. 57	1	1
J23253CE	AT&TCo Std	Reg & Sdr Test Unit A	J23253CE-()	SD-25680-01, Fig. 59	1	1
J23253CF	AT&TCo Std	TOUCH-TONE® Monitoring Cont Unit	J23253CF-()	SD-25680-01, Fig. 60	1	1
J23253CG	AT&TCo Std	Automatic Monitor Unit A	J23253CG-()	SD-25680-01 Fig. 16	1	1
J23253CH	AT&TCo Std	Class and Translator Check Unit	J23253CH-()	SD-25680-01, Fig. 52	1	1
J23253CJ	AT&TCo Std	IDDD Test Unit	J23253CJ-()	SD-25680-01, Fig. 69 & 72	—	2
J23253CK	AT&TCo Std	EOD - 12 Digit Tst Unit	J23253CK-()	SD-25680-01, Fig. 70, Opt ZYC & ZXB	—	1

Circuit Schematic Index

CIRCUIT
DRAWING
SD-25680-01

J23253
EQUIP. CODE

A through Y
AA through AY
BA through BZ
CA, CB, CE, CF, CG,
CH, CJ, and CK

2. SUPPLEMENTARY INFORMATION

800-610-152—Gauge and Insulation of Wire
819-000-000—Numerical Index—No. 5 Crossbar
System
J23252—819-700-150—Master Test Frame
J29259—819-005-150—General Outline—No. 5 Crossbar
System
J99297—801-205-178—TOUCH-TONE Station Test
Receiver

3. DRAWINGS

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

SD-25760-01—No. 5 Crossbar System—Keysheet
SD-98150-01—TOUCH-TONE Station Test Receiver
Type E-1

4. EQUIPMENT

J23253A—AT&TCo Std—Dial Pulse Amplifier, Repeater, and Bias Control Unit

Equipment—J23253A-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 13, for one dial pulse amplifier, repeater, and bias control unit. (See Note B and 5.01.)

List 2—Wiring and equipment required in addition to list 1 when the office is arranged for range extension for Unigauge cabling per SD-25680-01, Fig. 13, CA option.

Notes

- A. Reserved.
- B. Leads designated HV and leads run in close proximity to the bare termination of these leads shall be run with KS-13385 single-conductor or stranded wire.

J23253B—AT&TCo Std—Dial Pulse Counting Unit

Equipment—J23253B-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 15 and AD for one dial pulse counting unit. (See Note A and 5.01.)

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 16 and 17, JH option only, required in addition to list 1 for offices with multifrequency outgoing senders, where the office is arranged to route zero operator traffic to a traffic service position. (See 5.01.)

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 16 and 17, JJ option only, required in addition to list 1 for

offices with multifrequency outgoing senders, where the office is arranged to route person paid collect special and station paid coin traffic to tandem over a common trunk group. (See 5.01.)

List 6—Wiring and equipment required in addition to list 1 when the office is equipped with MF senders arranged to function with automatic intercept service, per SD-25680-01, Fig. 17, BI option (CL13 relay only).

List 7—Wiring and equipment per SD-25680-01, Fig. 16, ZXJ and JH options, Fig. 17 and Fig. 20, JC option, required in addition to list 1 when office is equipped with MF senders arranged for ANI or ANI-LAMA. (See Note 5.01.)

List 8—Wiring and equipment per SD-25680-01, Fig. 16, ZXT option, required in addition to list 5 when office is arranged for IDDD (TSPS).

Note

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

1. A&M Only—Wiring per SD-25680-01, Fig. 15, RX option for offices having dial pulse senders and no customer-dialed calls made through CX intertoll or CX 2-way trunks; that is, CL6 class is not provided.

J23253C—AT&TCo Std—Multifrequency Amplifier Unit

Equipment—J23253C-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 12, for one multifrequency amplifier unit.

Notes

- A. Reserved.
- B. When the multifrequency supply and distribution circuit has 619-ohm resistors in the MF supply leads to the monitor, the MF pad shall be equipped as follows:

1. When the MF supply and distribution circuit has 1130-ohm resistors supplying the sender or for a sender having an individual supply with 845-ohm resistors functioning with the

monitor, the MF pad shall be an 89 BK, 14.5 dB.

2. When the MF supply and distribution circuit has 856-ohm resistors supplying the sender or for a sender having an individual supply with 634-ohm resistors functioning with the monitor, the MF pad shall be an 89 BP, 16.5 dB.

J23253D—AT&TCo Std—Monitor Controller Unit

Equipment—J23253D-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 1, YE option, required in addition to list 1 for offices with outgoing senders.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 1, UC option, required in addition to lists 1 and 2 for offices with dial pulse outgoing senders.

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 1, YD option, required in addition to lists 1 and 2 for offices with multifrequency outgoing senders.

List 5—A&M Only—Wiring and equipment per SD-25680-01, Fig. 1, UA option, required in addition to list 1 for offices with dial pulse incoming registers.

List 6—A&M Only—Wiring and equipment per SD-25680-01, Fig. 1, YB option, required in addition to list 1 for offices with multifrequency incoming registers.

List 7—A&M Only—Wiring and equipment per SD-25680-01, Fig. 1, UK option, less BFR3 and STM3 relays required in addition to list 1 for offices with revertive incoming registers.

List 8—A&M Only—Wiring and equipment per SD-25680-01, Fig. 1, UL option, less BFR3 and STM3 relays required in addition to list 1 for offices with incoming central B registers.

List 9—A&M Only—Wiring and equipment per SD-25680-01, Fig. 1, VP option, less BFR3 and STM3 relays required in addition to list 1 for offices with PCI outgoing senders.

List 10—A&M Only—Wiring and equipment per SD-25680-01, Fig. 1, VR option, less BFR3 and STM3 relays required in addition to list 1 for offices with revertive outgoing senders.

List 11—A&M Only—Wiring and equipment per SD-25680-01, Fig. 1, UK, UL, VP, and VR options, STM3 and BFR3 relays only, and SG option, required in addition to list 1 when either or any combination of lists 7, 8, 9, or 10 is furnished.

List 12—Assembly, wiring, and equipment per SD-25680-01, Fig. 1 and SG, UK, UL, VP, and VR options, for one monitor controller unit. (See 5.01.)

List 13—A&M Only—Wiring and equipment per SD-25680-01, Fig. 1, LG option, required in addition to list 7 when WS revertive pulse incoming registers are added to an existing office equipped with unbalanced U-type revertive pulse incoming registers.

List 14—Wiring and equipment per SD-25680-01, Fig. 13, ZXX option, required in addition to list 1 in offices arranged for precise tone signals.

J23253E—AT&TCo Std—Monitoring Allotter Unit

Equipment—J23253E-()

List 1—Assembly, wiring, and common equipment per SD-25680-01, Fig. 2, for one monitoring allotter unit. (See Note B and 5.01.)

Notes

- A. Reserved.
- B. Cross-connection terminal facilities for apportioning the amount of monitoring time between originating registers, outgoing senders, and incoming registers are provided on the J23253E unit. Connections shall be made in accordance with SD-25680-01, Table A.

J23253F—AT&TCo Std—Marker Preference Unit

Equipment—J23253F-()

List 2—A&M Only—Apparatus and wiring per SD-25680-01, Fig. 6, 7, or 8 for one marker preference circuit. (See Note B and 5.01.)

List 3—Assembly, wiring, and equipment per SD-25680-01, Fig. 6, 7, or 8, for four marker preference circuits. (See Note C and 5.01.)

Notes :

- A. Reserved.
- B. A&M Only—Unit surface wiring and equipment provided for Fig. 6, 7, and 8 is all identical. The optional and sequential wiring is included in the bay local cable.
- C. One unit per list 3 required for each four markers.

J23253G—AT&TCo Std—Sender Group Selector Unit

Equipment—J23253G-()

List 2—A&M Only—Apparatus and wiring per SD-25680-01, Fig. 25 required in addition to list 1 for one additional sender group selector relay.

List 3—Assembly, wiring, and equipment per SD-25680-01, 12 Fig. 25, (for 12 sender groups) required where this circuit functions with any outgoing sender.

J23253H—AT&TCo Std—Steering, Register, and Matching Relays for one Digit

Equipment—J23253H-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 16, for steering, register, and matching relays for one digit. (See Note B and 5.01.)

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 16, W, V, U, or T apparatus for B, C, D, E, and F digits, respectively, required in addition to list 1 for each digit that any sender is arranged to not outdial.

Notes

- A. Reserved.
- B. The surface wiring and equipment provided for digits B through G and J through K is identical for each unit. The relays and wiring for each digit are shown separately on SD-25680-01, Fig. 16. Digit H and L are provided in J23253BY.

J23253J—AT&TCo Std—Steering, Register, and Matching Relay Control Unit

Equipment—J23253J-()

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 16, SV option, MCM relay only required in addition to list 1 when any sender is arranged to outpulse 1, 2, or 3 arbitrary digits.

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 16, SY option, MCK relay and network only required in addition to list 1 for PCI or reverteive outgoing senders or when any sender is arranged to outpulse 1, 2, or 3 arbitrary digits.

List 6—A&M Only—Wiring and equipment per SD-25680-01, Fig. 16, KP option, required in addition to list 5 for offices arranged for centrex, and PBX class of customer and regular telephone company customers are served in the same register group (1XX PBX tie line and special codes).

List 7—A&M Only—Wiring and equipment per SD-25680-01, Fig. 16, KR option, required in addition to list 5 for offices arranged for centrex, and PBX class of customer is served in a register group separate from telephone company customers (11X PBX tie line and special codes), and telephone company service codes are 11X.

List 8—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 16 with AU option (MCT network only), KP, SV, and SY options for one steering register and matching relay control unit. (See 5.01.)

Notes

- A. Reserved.
- B. List 8 contains the following apparatus of Fig. 16.

Relays: MK, ONR, TO, ORM1, CGC, MC1, MC3, X, TR, STS, ST7, KST7, TRS

Networks: MK, ONR, 11, ONR2-9, ORM1, MC1, MCB, MCE, RTC, MTC, STS, KST7

Resistors: TO TO1, ONR2-9, X

J23253K—AT&TCo Std—Code Route Digit of Steering, Register, and Matching Relays Unit

Equipment—J23253K-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 16, Z and SV options, less KR1, KR2, KR4, KR7, and MCM relays and networks required in addition to list 1 where any sender is arranged to outpulse 1, 2, or 3 arbitrary digits.

List 3—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 16 and Z, SV, VP, and VR options for 1-code route digit of steering register and matching relays unit required where this circuit functions with any outgoing sender arranged to outpulse arbitrary digits and/or where this circuit functions with reverive or PCI outgoing senders, and/or multifrequency senders arranged for ANI. (See 5.01.)

J23253L—AT&TCo Std—Steering, Register, and Matching Relays for First Digit Unit

Equipment—J23253L-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 16, less options for steering, register, and matching relays for first A digit. (See 5.01.)

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 16, Y option, required in addition to list 1 if any sender is arranged not to outdial first A digit.

J23253M—AT&TCo Std—Incoming Register Group Connector and Selector Unit

Equipment—J23253M-()

List 2—A&M Only—Apparatus and wiring per SD-25680-01, Fig. 3, 4, or 5 required in addition to list 1 for each register in the incoming register group. (See Note B.)

List 5—Assembly, wiring, and equipment per SD-25680-01, Fig. 22 and 24 and Fig. 3, 4, or 5 (IRBO through IRB9, IRPO through IRP9 relays, and IRPO/IRP1, IRP2/IRP3, IRP4/LK, IRP5/IRP6, IRP7/IRP8, and IRP9 networks, and LK resistor) for one incoming register or station dial transfer register

group and preference unit. (See Notes D, F, and 5.01.)

Notes

- A. Reserved.
- B. A&M Only—Unit surface wiring and equipment provided for Fig. 3, 4, and 5 is identical. The optional and sequential wiring is included in the bay local cable when the unit is mounted on the register and sender test frame.
- C. Mfr Disc.—Unit surface wiring and equipment provided for Fig. 4 and 5 is identical. The optional and sequential wiring shall be included in unit local cable when the unit is mounted on relay rack.
- D. List 5 units are surface wired.
- E. Mfr Disc.—Wiring between list 5 and list 6 units is furnished in the frame local cable when the units are mounted on the register and sender test bay.
- F. When the office is equipped with six or less incoming register groups, list 5 units will be mounted on the register and sender test bays. If the office is equipped with more than six incoming register groups, the additional list 5 units will be relay-rack-mounted and each additional unit will be provided with a unit local cable and a terminal strip A to connect the additional unit to the register and sender test bay via switchboard cable.

J23253N—AT&TCo Std—Test Controller Control Unit

Equipment—J23253N-()

List 2—A&M Only—Equipment per SD-25680-01, Fig. 9, UC apparatus, required in addition to list 1 for offices with dial pulse outgoing senders.

List 3—A&M Only—Equipment per SD-25680-01, Fig. 9, YD apparatus, required in addition to list 1 for offices with multifrequency outgoing senders.

List 4—A&M Only—Equipment per SD-25680-01, Fig. 9, UA apparatus, required in addition to list 1 for offices with dial pulse incoming registers.

List 5—A&M Only—Equipment per SD-25680-01, Fig. 9, YB apparatus, required in addition to list 1 for offices with multifrequency incoming registers.

List 6—A&M Only—Wiring and equipment per SD-25680-01, Fig. 9, VP option, required in addition to list 1 for offices with PCI outgoing senders.

List 7—A&M Only—Wiring and equipment per SD-25680-01, Fig. 9, VR option, ROS1, and ROS2 relays only required in addition to list 1 for offices with revertive outgoing senders.

List 8—A&M Only—Wiring and equipment per SD-25680-01, Fig. 9, UL option and part of Fig. P, required in addition to list 1 for offices with incoming central B registers.

List 9—A&M Only—Wiring and equipment per SD-25680-01, Fig. 9, UK option, RIR1 and RIR2 relays only required in addition to list 1 for offices with revertive incoming registers.

List 10—A&M Only—Wiring and equipment per SD-25680-01, Fig. 9, TM, XE, XY, and XZ options, required in addition to list 1 for offices where any outgoing sender is required to complete calls on intertoll trunks, combination outgoing and toll switching trunks, or toll switching trunks, or where any outgoing sender is required to complete tandem class or junctor class calls, or where any outgoing sender or incoming register is required to complete pulse conversion calls of any type.

List 11—A&M Only—Wiring and equipment per SD-25680-01, Fig. 9, UK option, less RIR1 and RIR2 relays and VR option less ROS1 and ROS2 relays required in addition to lists 7 and/or 9 in offices with revertive incoming registers and/or senders.

List 12—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 9, A, and P and UK, UL, VP, and VR options required for one test controller unit. (See Note B and 5.01.)

Notes

A. Reserved.

B. Test receiver and connecting block shown in Fig. A and the TA and TB jacks and 52S head telephone set, Fig. P, are furnished with the MTF control bay per J23252AJ.

J23253P—AT&T Co Std—Originating Register Test Controller Common Relay Unit

Equipment—J23253P-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 11, YF option, required in addition to list 1 or 8 for offices with X11 service codes and not equipped with pretranslators.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 11, WZ option, required in addition to list 1 when a dial pulse originating register serves coin lines.

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 11, VC option, required in addition to list 3, 8, or 11 when coin lines are arranged for loop-start.

List 5—A&M Only—Wiring and equipment per SD-25680-01, Fig. 11, XM and GC options, required in addition to list 3, 8, or 11 when dial pulse originating registers return coin on permanent signal, abandoned calls, calls to operator trunks, and other free trunks on trunk link frame.

List 6—A&M Only—Wiring and equipment per SD-25680-01, Fig. 11, RT option, required in addition to list 1, 8, or 11 where originating registers are arranged to function with 2-party lines having a resistance to ground of the tip-party station ringer not greater than 1000 ohms ± 10 percent on any line.

List 9—A&M Only—Equipment and wiring per SD-25680-01, Fig. Z, JV option required in addition to list 8 when the office is arranged for centrex customers and regular telephone company customers in the same register group and the private line network feature (prefix digit 8) is required. (See 5.01.)

List 10—Wiring and equipment per SD-25762-01, Fig. 11, GC option only, required in addition to list 8 or 11 when this circuit functions with a station dial transfer register and line identifier is provided or when this circuit tests 4-wire originating registers and functions with 4-wire incoming registers and 4-wire outgoing senders. (List 5 not provided.)

List 11—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 11 with AR and WZ options; Fig. 16, JV option (CTX resistor only), and Fig. Z with JV option for one originating register test controller

unit. (See Notes C and 5.01.)

List 12—Wiring and equipment per SD-25680-01, Fig. 18, GJ option only, required in addition to list 8 or 11 when the DP register and/or the TOUCH-TONE receiver of a reverting call trunk is to be tested.

List 13—Special—Wiring and equipment per SD-25680-01, Fig. 11, AQ option required in addition to list 11 when any originating register is arranged for PICTUREPHONE® or when the originating register arranged for dial-tone-first loop coin operation makes a coin test on zero operator calls where the marker is summoned with a "coin" or "no coin" deposited indication, and where the coin is not returned on zero operator calls. (See Note F.)

List 14—Special—Wiring and equipment per SD-25680-01, Fig. 11, ZZM option only, required in addition to list 11 when originating registers are required to process 11-digit numbers. (See Note E.)

List 15—Wiring and equipment per SD-25680-01, Fig. 11, ZZH option, required in addition to list 11 when any originating register serving coin lines is arranged for dial-tone-first, loop-start, and returns coin on permanent signal and abandoned calls only.

List 16—Wiring and equipment per SD-25680-01, Fig. 11, ZZO option, required in addition to list 4 when this circuit functions with originating registers arranged for wideband service. (See Note F.)

Notes

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

1. A&M Only—Wiring per SD-25680-01, Fig. 11, H option, required in addition to list 3 when coin lines are dial-tone-first.
2. Mfr Disc.—Wiring per SD-25680-01, Fig. 11, ZF option, required in addition to list 1 or 8 when X11 service codes are not provided or office is equipped with pretranslators.
3. A&M Only—Wiring per SD-25680-01, Fig. 11, WJ option, required in addition to list 1 when coin lines are arranged for coin first-ground start or the dial pulse originating registers do not serve coin lines.

B. A&M Only—When the TOUCH-TONE-feature is added in a marker group equipped with an originating register test controller unit per an issue of SD-25680-01 prior to Issue 45D, equipment and wiring per LY option must be added.

C. List 8 (Mfr Disc.) after Issue 45D, or list 11 includes the following apparatus only of Fig. 11.

Relays: DOR3, ORST, ORON, MAN ORAB, MST, MST1, FR2, MCD, SCK, PK, PD, PS, TP, RP, TPK, TPK1, FPT, SPT, TPT, TPT1, 2P, BT, RPD, RPS, POR1, POR2.

Networks: ORON, ORST, MST, MST1, FD2, SCK, MCD, PK, RP, TP, TPK1, TPT, TPT1.

Resistors: CRK1, CRK2, CRK3, TPK1.

D. When units manufactured subsequent to Issue 73 of SD-25680-01, are provided in an office with originating registers arranged to function with 2-party lines having a resistance to ground of the tip-party station ringer not greater than 1000 ohms, ± 10 percent on any line, option AR must be removed and RT option (list 6) provided.

E. List 14 is not required if the CR relay was previously provided per XM option in list 5.

F. When list 16 is provided, the CKL relay is to be mounted in available space on a job basis.

J23253R—AT&T Co Std—Originating Register Test Controller Coin Timing Unit

Equipment—J23253R-()

List 2—Wiring and equipment per SD-25680-01, Fig. 11, H option, required in addition to list 1 or 4 for dial-tone-first coin lines.

List 3—Wiring and equipment per SD-25680-01, Fig. 11, J option, required in addition to list 1 or 4 for coin first coin lines.

List 4—Assembly, wiring, and equipment per SD-25680-01, Fig. 11, VB and WZ options, for one originating register test controller coin timing unit required in offices where dial pulse originating register serves coin lines. (See 5.01.)

List 5—Wiring and equipment per SD-25680-01, Fig. 11, XM option, required in addition to list 4 when dial pulse originating register returns coin on permanent signal, abandoned calls, calls to operator trunks, and other free trunks on trunk link frame.

List 6—Wiring and equipment per SD-25680-01, Fig. 11, VC option, require in addition to list 4 when dial pulse originating registers are arranged for loop-start coin lines.

List 7—Wiring and equipment per SD-25680-01, Fig. 11, XQ option, required in addition to list 4 when dial pulse originating registers arranged for coin first-ground start coin lines return coin on permanent signal and abandoned calls only.

List 8—Wiring and equipment per SD-25680-01, Fig. 11, ZZK option (less key) required in addition to list 4 when any originating register serving coin lines is arranged for dial-tone-first, loop-start, and returns coin on permanent signal and abandoned calls only.

Note

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

1. A&M Only—Wiring per SD-25680-01, Fig. 11, G option, required in addition to list 1 where coin return potential is negative.
2. A&M Only—Wiring per SD-25680-01, Fig. 11, F option, required in addition to list 1 where coin return potential is positive.

J23253S—AT&TCo Std—Incoming Register Test Controller Control Unit

Equipment—J23253S-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, UA option, required in addition to list 1 for offices with dial pulse incoming registers.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, YB option, required in addition to list 1 for offices with multifrequency incoming registers.

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, ZY option, required in addition to list 1 for offices with dial pulse incoming registers arranged for bylink

operation.

List 5—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, UK option, less CA, RR3, RR3A, and RR3C relays and TC3A and TC4 resistances required in addition to list 1 for offices with revertive incoming registers.

List 6—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, UL option, less CA, RR3C, RR3, and RR3A relays and TC3A and TC4 resistances required in addition to list 1 for offices with incoming central B registers.

List 7—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, UK and UL options, CA, RR3, RR3C, RR3A relays and TC3A and TC4 resistances only required in addition to list 1 when either or both lists 5 and 6 are furnished.

List 8—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, WH option, required in addition to list 4 for offices where any pulse incoming register is arranged for an automatic check of the BL lead on bylink calls.

List 9—Assembly, wiring, and equipment for one incoming register test controller required for testing any incoming register per SD-25680-01, Fig. 11, ZEE option only, Fig. 18, EQ option only, and part of Fig. 20 and UK and UL options.

Notes

A. A&M Only—In addition, there is an option involving wiring only as follows.

1. Wiring per SD-25680-01, Fig. 20, YO option, required in addition to list 1 for offices with neither revertive nor central B registers.

B. List 9 includes the following apparatus only of Fig. 20.

Relays: IRST, RB1, RB2, RB3, LK, OH, C, CA, D, STK, DLP, DLP1, MFP, BLR, LKT, NBL, BL, BL1, BLT, BLT1, DR, MR, IRAB, RIPS, TC1, TC2, TST, TST1, RIR3, RR3C, RR3, RR3A, CBR3, CB3A, CBTT, TCA, TCB.

Resistors: ST, B, R, RB, A1, A0, TC1A, TC2A.

Capacitor: TT.

Transformer: TT.

J23253T—AT&TCo Std—Incoming Register Test Controller Wink Unit

Equipment—J23253T-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 32, for one incoming register test controller wink unit required where this circuit functions with multifrequency and/or dial pulse incoming registers. (See 5.01.)

J23253U—AT&TCo STd—Sender Test Control Unit

Equipment—J23253U-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, UC option, required in addition to list 1 for offices with dial pulse outgoing senders.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, YD option, required in addition to list 1 for offices with multifrequency outgoing senders.

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, XD option, required in addition to list 1 when either dial pulse or multifrequency senders are arranged for operation with 2-way or intertoll trunks (class CL2).

List 5—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, XV option, required in addition to list 1 in offices where any sender is required to complete calls over intertoll trunks which have CX-type supervision outward.

List 6—A&M Only—Wiring and STVT relay per SD-25680-01, Fig. 17, WC, WD, and XW options, required in addition to list 1 in offices where any sender is arranged for reduced timing intervals while awaiting transverter release.

List 7—A&M Only—Wiring and RTV relay and network per SD-25680-01, Fig. 17, WC and WD options, required in addition to list 6 in offices where dial multifrequency or revertive pulse senders are arranged for reduced timing interval while awaiting transverter release.

List 8—Assembly, wiring, and equipment per SD-25680-01, Fig. 45 and part of Fig. 17 for one sender test control unit required when this circuit functions with any outgoing sender. (See Note A and 5.01.)

List 9—Wiring and equipment per SD-25680-01, Fig. 17, JM option only (less LLS1 relay), required in addition to list 8 when this circuit is used to test outgoing senders for line link pulsing. (See 5.01.)

List 10—Wiring and equipment per SD-25762-01, Fig. 17, ZYD option only, required in addition to list 8 when the office is arranged for line link pulsing and/or automatic intercept service without using line link pulsing.

Note

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

1. A&M Only—Wiring per SD-25680-01, Fig. 17, TL option, required in addition to list 1 when no outgoing senders are required to complete calls on intertoll, toll switching, tandem pulse conversion, coin junctor, or AMA junctor trunks.
2. A&M Only—Wiring per SD-25680-01, Fig. 17, RX option, required in addition to list 1 for offices having DP senders and no customer-dialed calls made through CX intertoll or CX 2-way trunks; that is, CL6 class is not provided.
3. A&M Only—Wiring per SD-25680-01, Fig. 17, RZ option, required in addition to list 1 for offices having DP senders and customer-dialed calls made through CX intertoll or CX 2-way trunks; that is, CL6 class is provided.

J23253V—AT&TCo Std—Class, Abandoned Call, and AMA Sender Test Unit

Equipment—J23253V-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, XX option, required in addition to list 1 for offices with senders and AMA.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, UC option, less RV2

resistance, RVW potentiometer, CL3 and CL4 relays, and CL4 and CL5 network required in addition to list 1 for offices with dial pulse outgoing senders.

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, YD and UC options, RV2 resistance and RVW potentiometer only required in addition to list 1 for offices with dial pulse or multifrequency outgoing senders.

List 5—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, UC and VR options, CL4 relay and CL4 and CL5 networks only required in addition to list 1 for offices with revertive outgoing senders and/or dial pulse senders.

List 6—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17 required in addition to list 1 for offices with either or any combination of revertive outgoing senders, VR option, PCI outgoing senders, VP option, and dial pulse senders, UC option, CL3 relay only.

List 7—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, VP, VR, and XD options, CL2 and CL2A relays only required in addition to list 1 for offices with either or any combination of revertive of PCI outgoing senders; or dial pulse or multifrequency outgoing senders arranged for operation with 2-way or intertoll trunks (class CL2).

List 8—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, RZ option, required in addition to list 1 for offices having dial pulse outgoing senders and customer-dialed calls made through CX intertoll or CX 2-way trunks; that is, CL6 class is provided.

List 9—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 17 and VP and VR options for class, abandoned call, and AMA sender unit, required when this circuit functions with any sender. (See 5.01.)

List 10—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, LT option, CL4 relay and network required in addition to list 1 for offices not having dial pulse or revertive pulse senders and requiring coin zone dialing with multifrequency senders.

List 11—A&M Only—Wiring and equipment per SD-25680-01, Fig. 17, LU option, CL3 and CL5 relays and network required in addition to list 1 for offices not having dial pulse senders and requiring automatic

number identification with multifrequency senders.

Note

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

1. A&M Only—Wiring per SD-25680-01, Fig. 17, RX option, required in addition to list 1 for offices having DP senders and no customer-dialed calls made through CX intertoll or CX 2-way trunks; that is, CL6 class is not provided.

J23253W—AT&T Co Std—Connector Controller Unit

Equipment—J23253W-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 10, YE option, required in addition to list 1 for offices with senders.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 10, MS and VP options, required in addition to list 2 for offices with PCI outgoing senders.

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 10, TM and XZ options, required in addition to list 1 in offices where any outgoing sender is required to complete calls on intertoll trunks, combination outgoing and toll switching, or toll switching trunks, or where any outgoing sender is required to complete tandem class or junctor class calls, or where any outgoing sender or incoming register is required to complete pulse conversion calls of any type.

List 5—Assembly, wiring, and equipment per SD-25680-01, Fig. 10, and MS and VP options, for one connector controller unit. (See 5.01.)

Note

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

1. A&M Only—Wiring per SD-25680-01, Fig. 10, YI option, required in addition to list 1 when alarm sending unit is not provided.
2. A&M Only—Wiring per SD-25680-01, Fig. 10, SV option, required in addition to list 1

when any sender is arranged to outdial an arbitrary digit.

J23253Y—AT&TCo Std—Revertive Register Test Pulse Counting Unit

Equipment—J23253Y-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 33 for one revertive register test counting unit required where this circuit functions with revertive or central B switchboard registers. (See 5.01.)

J23253AA—AT&TCo Std—Trunk Link Frame and Trunk Identifier Unit

Equipment—J23253AA-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 31 required in addition to list 1 for each trunk link frame in the office for offices with outgoing senders.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 27, QM option, required in addition to list 1 for offices with more than ten trunk link frames.

List 4—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 27 and 31, less multicontact relay, for one trunk frame and trunk identifier unit required where this circuit functions with outgoing senders and/or incoming registers. (See Note B and 5.01.)

Notes

A. Reserved.

B. List 4 includes the following apparatus of Figures 27 and 31.

Relays: FGO, FG1, TFO, TF1, TF2, TF4, TF7, LCO-9, FAK, FBK, LV2-9, LVG, LCG, FSG1, FSG2 & FSO-19.

Networks: FS1, MCC, LCG, LVG, FSG.

Resistor: FS

J23253AB—AT&TCo Std—Tandem Trunk Identifier Unit

Equipment—J23253AB-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 30 less ZWA option for one tandem trunk identifier unit where this circuit functions with trunks having appearances on line link frames served by incoming registers. (See 5.01.)

J23253AC—AT&TCo Std—Line Identifier Unit

Equipment—J23253AC-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 28, QW option, required in addition to list 1 for offices with line link frames equipped for more than ten vertical groups.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 28, QR option, required in addition to list 1 for offices with more than ten line link frames.

List 4—Assembly, wiring, and equipment per SD-25680-01, Fig. 28, less MCA relay for one line identifier unit. (See Note B and 5.01.)

Notes

A. Reserved.

B. MCA relay is furnished with the register and sender test bays as covered by J23252W, List 1.

J23253AD—AT&TCo Std—Marker Identifier Unit

Equipment—J23253AD-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 29 required in addition to list 1 for one marker up to and including the tenth marker.

List 5—Assembly, wiring, and equipment for one marker identifier unit per SD-25680-01, Fig. 29. (See 5.01.)

List 6—Wiring and equipment required in addition to list 5 when operation with 4-wire originating registers and 4-wire incoming registers and/or 4-wire out-senders is required per SD-25680-01, Fig. 27 (DO option only).

List 7—Equipment and wiring per SD-25680-01, Fig. 41 required in addition to list 5 for offices equipped with more than ten completing markers.

List 8—Wiring and equipment per SD-25680-01,

Fig. 30, ZWA option only, required in addition to list 5 when any incoming register is arranged to serve incoming trunks with line link appearances.

J23253AE—AT&T Co Std—Outpulse Steerer Unit

Equipment—J23253AE-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 18, Q option, required in addition to list 1 if any register is arranged to record E digit.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 18, P and Q options, required in addition to list 1 if any register is arranged to record F digit.

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 18, N, P, and Q options, required in addition to list 1 if any register is arranged to record G digit.

List 5—A&M Only—Wiring and equipment per SD-25680-01, Fig. 18, M, N, P, and Q options, required in addition to list 1 if any register is arranged to record H digit.

List 6—A&M Only—Wiring and equipment per SD-25680-01, Fig. 18, D, M, N, P, and Q options, required in addition to list 1 if any register is arranged to record J digit.

List 7—A&M Only—Wiring and equipment per SD-25680-01, Fig. 18, B, D, M, N, P, and Q options, required in addition to list 1 if any register is arranged to record K digit.

List 8—A&M Only—Wiring and equipment per SD-25680-01, Fig. 18, B, D, M, N, P, Q, and YG options, required in addition to list 1 if any register is arranged to record L digit.

List 9—A&M Only—Wiring and equipment per SD-25680-01, Fig. 18, YB option, required in addition to list 1 for offices with multifrequency incoming registers.

List 10—Assembly, wiring, and equipment per SD-25680-01, Fig. 18 and B, D, LY, and YG options for one outpulse steerer unit. (See Note B and 5.01.)

List 11—Special—Equipment and wiring required in addition to list 10 where the originating register is arranged for special dial-tone-first loop-start coin operation, per SD-25680-01, Fig. 11, CQ option only.

Notes

A. Reserved.

B. A&M Only—When the TOUCH-TONE feature is added in a marker group equipped with an outpulse steerer unit per an issue of SD-25680-01 prior to Issue 45D, equipment and wiring per LY option must be added.

J23253AF—AT&T Co Std—Dial Pulse Generator Pulsing and Counting Relay Unit

Equipment—J23253AF-()

List 1—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 26 for one dial pulse generator pulsing and counting relay unit. (See 5.01.)

J23253AG—AT&T Co Std—Dial Pulse Generator Interrupter Relay Unit

Equipment—J23253AG-()

List 1—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 26 for one dial pulse generator interrupter relay unit. (See 5.01.)

J23253AH—AT&T Co Std—Dial Pulse Generator Counting Relay Unit

Equipment—J23253AH-()

List 1—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 26 for one dial pulse generator counting relay unit. (See 5.01.)

J23253AJ—AT&T Co Std—Dial Pulse Generator Control Unit

Equipment—J23253AJ-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 26, OQ, OS, and UA options, required in addition to list 1 for offices with dial pulse incoming registers.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 26, OJ and WG options, required in addition to list 1 where coin first-ground start lines are added in offices having only U-type dial pulse originating

registers.

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 26, OK and WG options, required in addition to list 1 for offices with coin first-ground start lines having wire-spring-type dial pulse originating registers.

List 5—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 26 and LY and WG options for one dial pulse generator control unit. (See Note B and 5.01.)

List 6—Wiring and equipment per SD-25680-01, Fig. 26, WG option, required in addition to list 5 for offices with coin first-ground start coin lines.

Notes

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

1. A&M Only—Wiring per SD-25680-01, Fig. 26, H option, required in addition to list 1 for offices where coin lines are dial tone first.

B. A&M Only—When the TOUCH-TONE feature is added in a marker group equipped with a dial pulse generator control unit per an issue of SD-25680-01 prior to Issue 45D, equipment and wiring per LX option must be removed and LY option added.

J23253AL—AT&TCo Std—Fast Pulse Multifrequency Generator Relay Unit

Equipment—J23253AL-()

List 1—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 21 and M for one fast pulse multifrequency unit, required where this circuit functions with multifrequency incoming registers and/or tests TOUCH-TONE originating registers or transfer registers.

J23253AM—AT&TCo Std—Slow Pulse Multifrequency Generator Relay Unit

Equipment—J23253AM-()

List 1—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 21, M, and X for one slow pulse multifrequency generator unit required where this circuit functions

with multifrequency incoming registers and/or tests TOUCH-TONE originating registers or transfer registers.

List 3—Wiring and equipment per SD-25680-01, Fig. 56, (SSL/SSR relay only) required in addition to list 1 when testing 4-wire originating registers and/or 2-wire originating registers arranged to function with TOUCH-TONE sets equipped with 12 buttons.

List 4—Special—Wiring and equipment required in addition to list 2 when TOUCH-TONE monitoring is required, per SD-25680-01, Fig. 62.

List 5—Wiring and equipment per SD-25680-01, Fig. 70, less ZYC and ZXB options, required in addition to list 1 in offices equipped with originating registers arranged for end-of-dial signal and/or 12 digits.

Notes

A. Reserved.

B. A&M Only—When the TOUCH-TONE feature is added in a marker group per an issue of SD-25680-01 prior to Issue 45D, equipment and wiring per Fig. W and LX option must be removed and Fig. X and LY option added.

J23253AN—AT&TCo Std—Test Controller Timing Unit

Equipment—J23253AN-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 9, YE option, required in addition to list 1 for offices with outgoing senders.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 9, XE option, (CX1 relay, SV1 and SV2 resistances, and inductor only) required in addition to list 2 for offices where any outgoing sender is required to complete calls on intertoll trunks, combination outgoing and toll switching trunks, or toll switching trunks.

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 9, XY and XZ options (PCT relay only), required in addition to list 1 for offices where any outgoing sender completes tandem or junctor class calls, or where any incoming register or outgoing sender completes pulse conversion calls of

any type.

List 5—A&M Only—Wiring and equipment per SD-25680-01, Fig. 9, XE and YX options (SV relay, TN resistor, TN capacitor, and A resistance lamp only), required in addition to list 2 when list 3 or 4 is provided and where any outgoing sender is required to complete tandem class or junctor class calls or calls on intertoll, combination toll and outgoing, or toll switching trunks.

List 6—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 9 and D for one test controller timing unit. (See 5.01.)

Note

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

1. A&M Only—Wiring per SD-25680-01, Fig. 9, YO option, required in addition to list 1 for offices with neither revertive nor central B registers.

J23253AP—AT&TCo Std—Digit Timing Tester Unit

Equipment—J23253AP-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 14, less options, for one digit timing tester unit. (See 5.01.)

List 2—A&M Only—Wiring and equipment required in addition to list 1 for offices with station dial transfer registers with no line identifier, per SD-25680-01, Fig. 14, EA option.

List 3—A&M Only—Wiring and equipment required in addition to list 1 when digit timers are all tube type or are tube and transistor type mixed, per SD-25680-01, Fig. 14, FY option only.

J23253AR—AT&TCo Std—Control Unit to Test Registers Arranged for 11X Service or 11 Prefix Directing Codes

Equipment—J23253AR-()

List 1—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 16, for one directing code control unit. (See 5.01.)

J23253AS—AT&TCo Std—Incoming Register Test Controller Class Check Unit

Equipment—J23253AS-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, A option, required in addition to list 1 for offices with incoming registers arranged to serve 4-digit trunks which complete to a single-office marker group, or to the first office of a multioffice marker group, or when the revertive incoming or central B switchboard revertive registers complete calls to numbers in office A and office B of a multioffice marker group with identification between offices by low and high incoming group selection.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, DC option, required in addition to list 1 for offices with incoming registers arranged to serve 4-digit trunks which complete to the second office of a multioffice marker group or when revertive incoming or central B switchboard revertive registers complete calls to numbers in office A and office B of a multioffice marker group with identification between offices by low and high incoming group selection.

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, ZH option required in addition to list 1 for offices with incoming registers arranged to serve 5-digit trunks which complete to only a single marker group.

List 5—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, DO option, required in addition to lists 4 and/or 15 for offices with incoming registers arranged to serve tandem trunks which transmit only 1 digit of 2- or 3-digit office codes or tandem trunks which transmit full office codes for area.

List 6—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, YM option, less MCH and SPL1 relays, required in addition to list 1 for offices where revertive incoming or central B switchboard revertive registers complete calls to both physical and theoretical numbers of a single office over a common trunk group with discrimination between physical and theoretical numbers by low and high incoming group selection.

- List 7**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, ZJ option, required in addition to list 1 for offices with incoming registers arranged to serve intertoll trunks (No. 5 crossbar office used as a toll center).
- List 8**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, EZ option, required in addition to list 1 for offices with incoming dial pulse registers.
- List 9**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, UK or UL options, required in addition to list 1 for offices having incoming central B or revertive incoming registers.
- List 10**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, ZZ option, required in addition to list 1 for offices with incoming dial pulse registers arranged for direct pulsing or with incoming multifrequency registers when office has no incoming central B or revertive incoming registers.
- List 11**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, XB option, less MCH and SPL1 relays, required in addition to list 1 for offices with multifrequency incoming registers arranged to serve pulse conversion trunks which require conversion of multifrequency to dial pulses (first sender group).
- List 12**—A&M Only—Wiring and equipment per SD-25680-01, Fig. E, with XC option (PCR relay) required in addition to list 1 or 24 in offices where multifrequency incoming registers or revertive pulse outgoing senders serve multifrequency to revertive pulse, pulse conversion trunks.
- List 13**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, XH option, required in addition to list 1 when multifrequency incoming register is arranged to serve pulse conversion trunks which require conversion from multifrequency to dial pulse (second sender group).
- List 14**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, S, XB, XC, YM, and FH options, MCH and SPL1 relays only, required in addition to list 1 when list 6, 7, 11, or 12 is provided or when any incoming register is arranged to serve intertoll trunks (No. 5 office used as a toll center).
- List 15**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, YH option, required in addition to list 1 for offices where any incoming register is arranged to serve tandem or nontandem trunks which transmit full home area office codes (LT translator lead).
- List 16**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, XB, XC, and YM options, SPL1 relay only, required in addition to list 1 when any of lists 6, 11, and/or 12 is provided.
- List 17**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, WR option, required in addition to list 1 for offices where there are dial pulse or multifrequency incoming registers.
- List 18**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, TR option, required in addition to list 22 when registers are equipped for groups of tandem trunks using TAN 1 class.
- List 19**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, TS option, required in addition to lists 18 and 22 when registers are equipped for groups of tandem trunks using TAN 2 class.
- List 20**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, TT option, required in addition to lists 19 and 22 when registers are equipped for groups of tandem trunks using TAN 3 class.
- List 21**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, TU option, required in addition to lists 20 and 22 when registers are equipped for groups of tandem trunks using TAN 4 class.
- List 22**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, TZ option, required in addition to list 1 for offices equipped with dial pulse and/or MF incoming registers arranged for screening of tandem class calls or any incoming registers arranged to serve tandem or nontandem trunks transmitting only two of 3-digit local office codes.
- List 23**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 20, SA option, required in addition to list 22 for offices with any incoming registers arranged to serve tandem trunks or nontandem trunks which transmit BX codes (2DT translator lead).
- List 24**—A&M Only—Mounting plate required for PCR relay furnished in list 12 when list 1 is not provided (when SD-25680-01 is not used to test any incoming register but is used to test revertive pulse outgoing

senders serving multifrequency to revertive pulse and pulse conversion trunks).

List 25—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 20, VK, VL, YM, and YN options, Fig. 50 and Fig. E for one incoming register test controller class check unit required when this circuit functions with any incoming register. (See 5.01.)

List 26—Mounting plate, wiring, and equipment per SD-25680-01, Fig. E, required when list 25 is not furnished but when SD-25680-01 is used to test revertive pulse outgoing senders serving multifrequency to revertive pulse, pulse, and pulse conversion trunks.

List 27—Wiring and equipment per SD-25680-01, Fig. 20, JC option required in addition to list 25 when this circuit functions with multifrequency incoming registers or transfer registers in offices arranged for centrex.

List 28—Mounting plate, wiring, and equipment per SD-25680-01, Fig. 50 required when list 25 is not furnished by when the office is arranged for 5-digit translators. (See 5.01.)

Notes

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

1. A&M Only—Wiring per SD-25680-01, Fig. 20, XG option, required in addition to list 1 where no multifrequency incoming registers serve pulse conversion trunks.
2. A&M Only—Wiring per SD-25680-01, Fig. 20, YN option, required in addition to lists 2 and 3 when the revertive incoming or central B switchboard revertive registers complete calls to numbers in office A and office B of a multioffice marker group with identification between offices by low and high incoming group selection.
3. A&M Only—Wiring per SD-25680-01, Fig. F required in addition to list 1 when the multifrequency incoming register and/or revertive outgoing sender is not required to serve pulse conversion trunks.
4. A&M Only—Wiring per SD-25680-01, Fig. 20, QE option, required in addition to list 1

where any incoming register is arranged to serve nontandem trunks where the full home area office codes are transmitted (LT translator lead).

5. A&M Only—Wiring per SD-25680-01, Fig. 20, QF option, required in addition to list 1 where any incoming register is arranged to serve nontandem trunks where BX codes are transmitted (2DT translator lead).
6. A&M Only—Wiring per SD-25680-01, Fig. 20, TQ option, required in addition to list 1 when dial pulse or multifrequency incoming registers are arranged for screening of tandem class calls.
7. A&M Only—Wiring per SD-25680-01, Fig. 20, TP option, required in addition to list 1 when no incoming register is arranged for screening of tandem calls.

B. List 25 includes the following apparatus only of Fig. 20.

Relays: DTT, NDT, NDT1, MCF, MCH, MCG, PCD, PCD1, SFT, SPL, OA, OB, TT, TOL, TAN, INC, PHC, THC, SPL1, RO, DCK, LR NDK, TAN1, TAN2, TAN3, TAN4, MSTB, IGH, CCK.

J23253AT—AT&T Co Std—Control Unit for Testing Senders Arranged to Outpulse Prefix XX

Equipment—J23253AT-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 16, R option, less CL1 network and CL1 and TD1 relays, required in addition to list 1 for offices where any sender is arranged to outpulse prefix XX.

List 4—Mounting plate required for one control unit to be provided when any of the subsequent lists are required.

List 5—Wiring and equipment per SD-25680-01, Fig. 16, R option required in addition to list 4 where this circuit functions with any outgoing sender arranged to outpulse one arbitrary digit and/or 11 or XX prefix with the marker not arranged for 2- or 3-digit code conversion (2 or 3 digits obtained on CL1 basis with first 2 digits

cross-connectable but fixed for marker group).

List 6—Wiring and equipment per SD-25680-01, Fig. 16 (CL1 relay only) required in addition to list 4 when this circuit:

- (a) Tests 4-wire originating registers and functions with 4-wire outgoing senders (CY option)
- (b) Functions with any revertive outgoing sender or with any outgoing sender arranged to function with AIS and/or IDDD (TSPS) BH option or when
- (c) List 5 is provided.

List 7—Wiring and equipment per SD-25680-01, Fig. 16 (TD1 relay only) required in addition to list 4 when this circuit tests 4-wire originating registers and functions with 4-wire outgoing senders (CY option) and/or when this circuit functions with any revertive outgoing sender (VR option) and/or when list 5 is provided.

J23253AU—AT&TCo Std—Panel Call Indicator Pulse Amplifier Unit

Equipment—J23253AU-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 36 and R for one panel call indicator pulse amplifier unit, required where this circuit functions with PCI outgoing senders. (See 5.01.)

J23253AW—AT&TCo Std—Revertive Counting and Register Control Unit

Equipment—J23253AW-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 34, VR and VT options, required in addition to list 1 for offices where there are revertive outgoing senders.

List 3—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 34, and VR and VT options for one revertive pulse counting and register unit required when this circuit functions with revertive outgoing senders, revertive incoming, or central B switchboard registers. (See 5.01.)

List 4—A&M Only—Wiring and equipment per SD-25680-01, Fig. 34, LS option, required

in addition to list 1 when balanced WS revertive pulse incoming registers are added to an existing office equipped with unbalanced U-type revertive pulse incoming registers.

Note

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

1. A&M Only—Connect XC wiring per SD-25680-01, Fig. 34, when MF incoming registers are arranged to serve pulse conversion trunks which require conversion from MF to revertive pulses.

J23253AY—AT&TCo Std—Revertive Monitor and Sender Test Counting Unit

Equipment—J23253AY-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 34, for one revertive pulse monitor and sender test counting unit, required where this circuit functions with revertive outgoing senders, revertive incoming, or central B switchboard registers. (See 5.01.)

J23253BA—AT&TCo Std—Revertive Register—Miscellaneous Test Unit

Equipment—J23253BA-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 33, UL option, required in addition to list 1 for offices where there are central B switchboard revertive pulse registers.

List 3—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 33 and UL option for one revertive register miscellaneous test unit required when this circuit functions with revertive pulse incoming or central B switchboard registers. (See 5.01.)

J23253BB—AT&TCo Std—Revertive Number Translator Unit

Equipment—J23253BB-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 33, UK option, required

in addition to list 1 for offices with revertive pulse incoming registers.

- List 3**—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 33 and UK option for one revertive number translator unit required where circuit functions with revertive pulse incoming or central B switchboard registers. (See 5.01.)

J23253BC—AT&TCo Std—Revertive Register Test Steering Unit

Equipment—J23253BC-()

- List 2**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 33, UK option, required in addition to list 1 for offices with revertive pulse incoming registers.

- List 3**—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 33 and UK option for one revertive test register unit required where this circuit functions with revertive pulse incoming or central B switchboard registers. (See 5.01.)

J23253BD—AT&TCo Std—Revertive Register Test Timing Unit

Equipment—J23253BD-()

- List 2**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 33, UK option, required in addition to list 1 for offices with revertive pulse incoming registers.

- List 3**—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 33 and UK option for one revertive register test timing unit required where this circuit functions with revertive pulse incoming or central B switchboard registers. (See 5.01.)

J23253BE—AT&TCo Std—Revertive Sender Test Controller Unit

Equipment—J23253BE-()

- List 1**—Assembly, wiring, and equipment per SD-25680-01, Fig. 40, LO, VR, and VV options, for one revertive pulse sender test controller unit required where this circuit functions with revertive outgoing senders.

J23253BF—AT&TCo Std—PCI Sender Test Controller Unit

Equipment—J23253BF-()

- List 1**—Assembly, wiring, and equipment per SD-25680-01, Fig. 40, VP option, and Fig. T for one panel call indicator sender test controller unit required where this circuit functions with PCI outgoing senders. (See 5.01.)

J23253BG—AT&TCo Std—Revertive and PCI Sender Test Common Unit

Equipment—J23253BG-()

- List 2**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 40, VP option, required in addition to list 1 for offices with PCI outgoing senders.

- List 3**—A&M Only—Wiring and equipment per SD-25680-01, Fig. 40, VR option, required in addition to list 1 for offices with revertive outgoing senders.

- List 4**—Assembly, wiring, and equipment per SD-25680-01, part of Fig. 40 and VP and VR options for one revertive and PCI sender test common unit required where this circuit functions with revertive or PCI outgoing senders. (See 5.01.)

J23253BH—AT&TCo Std—Revertive Pulse Generator Interrupter Relay Unit

Equipment—J23253BH-()

- List 1**—Assembly, wiring, and equipment per SD-25680-01, Fig. 40, VR option, for one revertive pulse generator interrupter relay unit required where this circuit functions with revertive outgoing senders.

J23253BJ—AT&TCo Std—Revertive Pulse Generator Pulsing Relay Unit

Equipment—J23253BJ-()

- List 1**—Assembly, wiring, and equipment per SD-25680-01, Fig. 40, VR option, for one revertive pulse generator pulsing relay unit required where this circuit functions with revertive outgoing senders.

J23253BL—AT&TCo Std—PCI Register Unit

Equipment—J23253BL-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 38, YV option, required in addition to list 1 for offices with PCI outgoing senders that output 2-digit office codes.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 38, YW option, required in addition to lists 1 and 2 for offices with PCI outgoing senders that output 3-digit office codes.

List 4—Assembly, wiring, and equipment per SD-25680-01, Fig. 38 and YV and YW options for one PCI register unit required where this circuit functions with PCI outgoing senders. (See 5.01.)

J23253BM—AT&TCo Std—PCI Steering Unit

Equipment—J23253BM-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 37, YV option, required in addition to list 1 for offices with PCI outgoing senders that output 2-digit office codes.

List 3—A&M Only—Wiring and equipment per SD-25680-01, Fig. 37, YV and YW options, required in addition to list 1 for offices with PCI outgoing senders that output 3-digit office codes.

List 4—Assembly, wiring, and equipment per SD-25680-01, Fig. 37 and YV and YW options for one PCI indicator steering unit required where this circuit functions with PCI outgoing senders. (See 5.01.)

J23253BN—AT&TCo Std—Revertive Pulse Register Unit

Equipment—J23253BN-()

List 2—A&M Only—Wiring and equipment per SD-25680-01, Fig. 35, UK, UL, and XC options, required in addition to list 1 for offices having revertive pulse incoming registers, central B switchboard registers, or MF incoming registers arranged to serve pulse conversion trunks which require conversion from MF to revertive pulses.

List 4—A&M Only—Wiring and equipment per

SD-25680-01, Fig. 35, VR option, required in addition to list 1 for offices where there are revertive outgoing senders.

List 5—A&M Only—Wiring and equipment per SD-25680-01, Fig. 35, YQ option, required in addition to list 1 for offices where there are revertive outgoing senders which output 2-digit office codes only.

List 6—A&M Only—Wiring and equipment per SD-25680-01, Fig. 35, YS option, required in addition to list 1 for offices where there are revertive outgoing senders which output 3-digit office codes only.

List 7—A&M Only—Wiring and equipment per SD-25680-01, Fig. 35, YT option, required in addition to list 1 for offices where there are revertive outgoing senders that output both 2- and 3-digit office codes.

List 8—A&M Only—Wiring and equipment per SD-25680-01, Fig. 35, YU option, required in addition to list 1 for offices where there are revertive outgoing senders that output high incoming group selection.

List 9—Assembly, wiring, and equipment per SD-25680-01, Fig. 35, and UK, UL, VR, YQ, YS, and YT options for one revertive pulse register unit, required where this circuit functions with revertive outgoing senders, revertive incoming, and/or central B switchboard registers. (See 5.01.)

J23253BP—AT&TCo Std—B Arbitrary Digit Control Unit

Equipment—J23253BP-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 16 (BRS relay only) for one B arbitrary digit control unit required when this circuit tests 4-wire originating registers and functions with 4-wire incoming registers and/or 4-wire outgoing senders (DQ option and/or where this circuit functions with any outgoing sender arranged to output 1, 2, or 3 arbitrary digits with the marker arranged for 2- or 3-digit code conversion (marker equipped to operate AR and BR digit registers, SW option). (See 5.01.)

List 2—Wiring and equipment per SD-25680-01, Fig. 16, SW option (less BRS relay) required in addition to list 1 when this circuit functions with any outgoing sender arranged to output 1, 2, or 3 arbitrary digits with

the marker arranged for 2- or 3-digit code conversion (marker equipped to operate AR and BR digit registers).

sender AG timer test unit required where this circuit functions with dial pulse outgoing senders.

J23253BR—AT&T Co Std—A Arbitrary Digit Control and/or Local ANI Unit

Equipment—J23253BR-()

List 2—Mounting plate required for one arbitrary digit A control unit to be provided when any of the subsequent lists are required. (See 5.01.)

List 3—Wiring and equipment per SD-25680-01, Fig. 16, SX option (less ARS and MCL relays) required in addition to list 2 when this circuit functions with any outgoing sender arranged to output pulse 1, 2, or 3 arbitrary digits with the marker arranged for 2- or 3-digit code conversion (marker equipped to operate AR and BR digit registers).

List 4—Wiring and equipment per SD-25680-01, Fig. V required in addition to list 2 when circuit functions with MF senders arranged for ANI. (See 5.01.)

List 5—Wiring and equipment per SD-25680-01, Fig. 16 (ARS relay only) required in addition to list 2 when this circuit tests 4-wire incoming registers and/or 4-wire outgoing senders (DQ option) and/or when list 3 is provided.

List 7—Wiring and equipment per SD-25680-01, Fig. 16, ZXG option, required in addition to list 2 when this circuit functions with any outgoing sender.

Notes

A. Reserved.

B. When adding ANI feature to an existing A arbitrary digit control unit, MCL and MCN relays may be removed from top mounting plate and these relays may be mounted on new mounting plate per list 4.

J23253BS—AT&T Co Std—Dial Pulse Sender AG Timer Test Unit

Equipment—J23253BS-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 43 for one dial pulse

J23253BT—AT&T Co Std—Dial Pulse Generator Ringing Test Unit

Equipment—J23253BT-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 26 for one dial pulse generator ringing test unit. (See 5.01.)

J23253BU—AT&T Co Std—Trunk Link Frame and Trunk Identifier Unit

Equipment—J23253BU-()

List 2—Assembly, wiring, and equipment for one trunk link frame and trunk identifier unit required when more than 20 trunk link frames are provided and/or where this circuit functions with 4-wire incoming registers of 4-wire outgoing senders and/or in offices having trunk link frames equipped with 12 level switches per SD-25680-01, Fig. 27, NX option only. (See 5.01.)

List 3—Wiring and equipment per SD-25680-01, Fig. 27, NZ option, and Fig. 31, NU option required in addition to list 2 when more than 20 trunk link frames are provided.

Notes

A. Reserved.

J23253BW—AT&T Co Std—PCI Transfer Unit

Equipment—J23253BW-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 39, and YV, YW, and YY options for one PCI transfer unit required where this circuit functions with PCI outgoing senders. (See 5.01.)

J23253BX—AT&T Co Std—Prefix Digit Test Unit

Equipment—J23253BX-()

List 1—A&M Only—Assembly, wiring, and equipment per SD-25680-01, Fig. AB, Fig. 16, JU option (CG relay only), and Fig. 18, (PDO and PD9 relays only) for one prefix digit

test unit. (See 5.01.)

List 2—A&M Only—Equipment and wiring per SD-25680-01, Fig. 16, JV option and Fig. 18, JV option required in addition to list 1 when the office is arranged for centrex customers and regular telephone company customers are served in the same register group and the private line network feature (prefix digit 8) is required. (See 5.01.)

List 3—A&M Only—Assembly, wiring, and equipment per SD-25680-01, Fig. AB, Fig. 16, JV and JU options (CG relay only), and Fig. 18, (PBX, PDO and PO9 relays) with GG and JV options for one prefix digit test unit. (See Note B and 5.01.)

List 5—Assembly, wiring, and equipment for one prefix digit test unit per SD-25680-01, Fig. 16, JV option and JU option (CG relay only). (See 5.01.)

Notes

A. Reserved.

B. Where an existing office is modified to include an arrangement for centrex, PPCS, Digit 1 access codes, and/or CCSA (requiring the recognition of an access digit 8) and the modification does not include the new numbering plan arrangement of translator and class leads, list 3 should be provided instead of list 5.

J23253BY—AT&TCo Std—Steering Register and Matching Relays for Eighth or Eleventh Digit Unit

Equipment—J23253BY-()

List 1—Assembly, wiring, and equipment per SD-25680-01, Fig. 16, for steering register and matching relays for one eighth or eleventh digit unit. (See 5.01.)

J23253BZ—AT&TCo—Transfer Register Test Unit

Equipment—J23253BZ-()

List 3—Assembly, equipment, and wiring required when this circuit functions with a station dial transfer register per SD-25680-01, Fig. 9 and 20, IH and II options only and Fig. 58. (See 5.06.)

List 4—Equipment and wiring required in addition

to list 3 when the line identifier is provided (phase III) per SD-25680-01, Fig. 51.

List 5—A&M Only—Equipment and wiring required in addition to list 3 when the line identifier is not provided (phase I and II), per SD-25680-01, Fig. 20, IJ option only.

List 7—Wiring and equipment per SD-25680-01, Fig. 51, ZYK option, required in addition to list 1 in phase III centrex wideband offices.

J23253CA—AT&TCo Std—Range Extension and Toll Diversion Test Unit

Equipment—J23253CA-()

List 1—Assembly and equipment (mounting plate and insulated grid only) required when either range extension for Unigauge cabling or toll diversion is required.

List 2—Wiring and equipment required in addition to list 1 when the office is arranged for range extension for Unigauge cabling per SD-25680-01, Fig. 13 and 26, EE option.

List 3—Wiring and equipment required in addition to list 1 when the office is arranged for toll diversion per SD-25680-01, Fig. 9, EG option.

J23253CB—AT&TCo Std—Originating Register Translator Indicator Test Unit

Equipment—J23253CB-()

List 2—Wiring and equipment required in addition to list 1 or 3 when operation with 4-wire circuits is required, per SD-25680-01, Fig. 54, DH option only.

List 3—Assembly, wiring, and equipment for one originating register translator indication test unit per SD-25680-01, Fig. 14, FZ option only, and Fig. 54.

List 4—Wiring and equipment required in addition to list 3 when the office is arranged for local and foreign area translators, per SD-25680-01, Fig. 53.

List 6—Wiring and equipment required in addition to list 1, where this circuit functions with 4-wire originating registers and/or station dial transfer registers with line identifier provided, per SD-25680-01, Fig. 66.

J23253CC—AT&TCo Std—Four-Wire Test Unit

Equipment—J23253CC-()

List 1—Assembly, wiring, and equipment for one 4-wire test unit required when this circuit tests 4-wire originating registers, per SD-25680-01, Fig. 55 and Fig. 56, DI option only. (See Notes B and 5.01.)

List 2—Wiring and equipment required in addition to list 1 when TOUCH-TONE monitoring is required, per SD-25680-01, Fig. 61.

Notes

- A. Reserved.
- B. This is a 4-mounting plate unit and is to be mounted on miscellaneous relay rack, preferably near other AMRST units.

J23253CD—AT&TCo Std—Control Digit Steering Unit

Equipment—J23253CD-()

List 1—Assembly, wiring, and equipment for one control digit steering unit required when this circuit tests 4-wire originating registers and functions with 4-wire incoming registers; per SD-25680-01, Fig. 57, less CY and DS options.

List 2—Wiring and equipment required in addition to list 1 when this circuit tests 4-wire originating registers and functions with 4-wire outsenders, per SD-25680-01, Fig. 57, CY and DS options only.

J23253CE—AT&TCo Std—Register and Sender Test Unit A

Equipment—J23253CE-()

List 1—Assembly and equipment (mounting plate and terminal strip) required when the office is equipped with MF senders arranged to function with automatic intercept service and/or ANI or ANI-LAMA. (See Note B.)

List 2—Equipment and wiring required in addition to list 1 when the office is equipped with MF senders arranged to function with automatic intercept service and/or ANI or ANI-LAMA, per SD-25680-01, Fig. 59. (See Note B.)

List 3—Equipment and wiring required in addition to list 2 when the office is equipped with MF senders arranged for ANI or ANI-LAMA, per SD-25680-01, Fig. 59, CC option.

Notes

- A. Reserved.
- B. This is a single mounting plate unit to be mounted on the miscellaneous rack.

J23253CF—AT&TCo Std—"TOUCH-TONE®" Monitoring Control Unit

Equipment—J23253CF-()

List 1—Assembly, wiring, and equipment for one TOUCH-TONE monitoring unit required when this circuit monitors TOUCH-TONE calls, per SD-25680-01, Fig. 60, and SD-98150-01, Fig. 2. (See Note B.)

Notes

- A. Reserved.
- B. A TOUCH-TONE monitoring unit J23253CF-() and a TOUCH-TONE station test receiver J99297A-(), List 2 are required for TOUCH-TONE monitoring. These units are mounted on a miscellaneous rack with the TOUCH-TONE monitoring unit directly above the station test receiver. This assembly takes the space of four 2-inch mounting plates. Fusing for this assembly is to be provided on the relay rack. All leads connecting the TOUCH-TONE monitoring unit and the TOUCH-TONE station test receiver shall be in a unit local cable.

J23253CG—AT&TCo Std—Automatic Monitor Unit A

Equipment—J23253CG-()

List 1—Assembly, wiring, and equipment for one automatic monitor unit, per SD-25680-01, Fig. 16, AE option.

List 2—Wiring and equipment required in addition to list 1 when this circuit functions with dial pulse or multifrequency senders arranged for 4-wire, per SD-25680-01, Fig. 16, CU option.

List 3—A&M Only—Wiring and equipment per

SD-25680-01, Fig. 73 required in addition to list 1 when the 1A pulsing analyzer test set is used to test flat spring MF or DP senders.

J23253CH—AT&TCo Std—Class and Translator Check Unit

Equipment—J23253CH-()

List 1—Assembly, wiring, and equipment for one class and translator check unit, per SD-25680-01, Fig. 52.

J23253CJ—AT&TCo Std—IDDD Test Unit

Equipment—J23253CJ-()

List 3—Wiring and equipment per SD-25680-01, Fig. 69, ZXV option only, required in addition to list 2 (Mfr Disc.) or list 4 when markers are not arranged for 2- or 3-digit code conversion.

List 4—Assembly, wiring, and equipment for IDDD test unit required when this circuit functions with originating registers and MF senders arranged for international direct distance dialing (IDDD) per SD-25680-01, Fig. 69 (less TON/TOF and S1D keys) and Fig. 72. (See Note B.)

Notes

- A. Reserved.
- B. This is a 2-mounting plate unit and is to be mounted on relay rack frame preferably near other AMRST units.
- C. This unit is only required in offices arranged for IDDD (LAMA).

J23253CK—AT&TCo Std—EOD 12-Digit Test Unit

Equipment—J23253CK

List 1—Assembly, wiring, and equipment for one EOD 12-digit test unit required in offices arranged for 12-digit operation per SD-25680-01, Fig. 70, and ZYC, ZXB options. (See Note B.)

Notes

- A. Reserved.
- B. This 1-plate unit is to be relay rack mounted and located immediately above the IDDD test unit J23253CJ, if provided.

5. GENERAL NOTES

5.01 Keys, lamps, and other equipment that are associated with the individual units but mounted on the control bays of the master test frame are ordered on these bays.

Surface wiring shall be used between components on the same unit except for optional wiring which may be connected in the field. Such optional wiring shall be included in the bay local cables for the automatic monitor bay, register and sender test bays, and auxiliary register and sender test bay. These bay local cables shall contain all wiring not provided as surface wiring.

5.02 For the gauge and insulation of wire to be used in the manufacture of the units herein, see Section 800-610-152.

List of A&M Only and Mfr Disc. Equipment

			DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT				DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
EQUIPMENT	RATING				EQUIPMENT	RATING			
J23253B,L2	A&M Only	9	J23253B,L4	J23253AA,L1	Mfr Disc.	6	J23253AA,L4		
L3	A&M Only	9	L4	L2					
L4	Mfr Disc.	13	J23253B,L7	& L3	A&M Only	7	—		
L5	Mfr Disc.	11	—	J23253AC,L1	Mfr Disc.	7	J23253AC,L4		
J23253D,L1	Mfr Disc.	6	J23253D,L12	L2					
L2				& L3	A&M Only	7	—		
to L11	A&M Only	7	—	J23253AD,L1	Mfr Disc.	6	J23253AD,L4		
L13	A&M Only	7	—	L2					
J23253F,L1	Mfr Disc.	6	J23253F,L3	L3	Mfr Disc.	12	J23253AD,L7		
L2	A&M Only	7	—	& L4	Mfr Disc.	11	J23253AD,L5		
J23253G,L1	Mfr Disc.	6	J23253G,L3	J23253AE,L1	Mfr Disc.	6	J23253AE,L10		
L2	A&M Only	7	—	L2					
J23253H,L2	A&M Only	7	—	to L9	A&M Only	7	—		
J23253J,L1	Mfr Disc.	6	J23253J,L5	J23253AJ,L1	Mfr Disc.	6	J23253AJ,L5		
L2	Mfr Disc.	4	L1	L2					
L3 & L4	A&M Only	7	—	to L4	A&M Only	7	—		
L5	Mfr Disc.	9	J23253J,L8	J23253AK	Mfr Disc.	6	J23253BT		
L6 & L7	A&M Only	9	—	J23253AM,L2	Mfr Disc.	11	J23253AM,L3		
J23253K,L1	Mfr Disc.	6	J23253K,L3	J23253AN,L1	Mfr Disc.	6	J23253AN,L6		
L2	A&M Only	7	—	L2					
J23253L,L2	A&M Only	7	—	to L5	A&M Only	7	—		
J23253M,L1			J23253M,L5	J23253AP,L3	A&M Only	11	—		
& L3	Mfr Disc.	6	J23253M,L5	J23253AS,L1	Mfr Disc.	6	J23253AS,L25		
L2	A&M Only	7	—	L2					
L4	Mfr Disc.	7	—	to L24	A&M Only	7	—		
L6	Mfr Disc.	8	—	J23253AT,L1	Mfr Disc.	6	J23253AT,L3		
J23253N,L1	Mfr Disc.	6	J23253N,L12	L2	A&M Only	7	—		
L2				L3	Mfr Disc.	12	J23253AT,L5, L6, L7		
to L11	A&M Only	7	—						
J23253P,L1	Mfr Disc.	6	J23253P,L8	J23253AW,L1	Mfr Disc.	6	J23253AW,L3		
L2	A&M Only	8	—	L2	A&M Only	7	—		
L3	A&M Only	7	—	L4	A&M Only	8	—		
L4 & L5	A&M Only	12	—	J23253BA,L1	Mfr Disc.	6	J23253BA,L3		
L7	Mfr Disc.	11	—	L2	A&M Only	7	—		
L6 & L9	A&M Only	9	J23253P,L11	J23253BB,L1	Mfr Disc.	6	J23253BB,L3		
L8	Mfr Disc.	9	—	L2	A&M Only	7	—		
J23253R,L1	Mfr Disc.	3	J23253R,L4	J23253BC,L1	Mfr Disc.	6	J23253BC,L3		
J23253S,L1	Mfr Disc.	6	J23253S,L9	L2	A&M Only	7	—		
L2				J23253BD,L1	Mfr Disc.	6	J23253BD,L3		
to L8	A&M Only	7	—	L2	A&M Only	7	—		
J23253U,L1	Mfr Disc.	6	J23253U,L8	J23253BG,L1	Mfr Disc.	6	J23253BG,L4		
L2				L2					
to L7	A&M Only	7	—	& L3	A&M Only	7	—		
J23253V,L1	Mfr Disc.	6	J23253V,L9	J23253BK	Mfr Disc.	6	J23253BW		
L2				J23253BL,L1	Mfr Disc.	6	J23253BL,L4		
to L8	A&M Only	7	—	L2					
L10				& L3	A&M Only	7	—		
& L11	A&M Only	8	—	J23253BM,L1	Mfr Disc.	6	J23253BM,L4		
J23253W,L1	Mfr Disc.	6	J23253W,L5	L2					
L2				& L3	A&M Only	7	—		
to L4	A&M Only	7	—	J23253BN,L1	Mfr Disc.	6	J23253BN,L9		

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT	EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J23253BN,L3	Mfr Disc.	4	L2				
L2				L2	Mfr Disc.	10	L3,L5
& L4 to L8	A&M Only	7	—	L6	Mfr Disc.	12	
J23253BR,L1	Mfr Disc.	7	J23253BR,L2				
			to L4	J23253CB,L1	Mfr Disc.	11	J23253CB,L3
L4	A&M Only	8	—	L5	Mfr Disc.	12	
L6	Mfr Disc.	13	J23253BR,L7	J23253CJ,L1			
J23253BU,L1	Mfr Disc.	12	J23253BU,L2	L2	Mfr Disc.	13	J23253CJ,L4
			L3	J23253CK,L2	Mfr Disc.	13	—
J23253BX,L1	A&M Only	9	J23253BX,L3				
L2	A&M Only	9	—				
J23253BX,L3	A&M Only	10	J23253BX,L4	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.			
L4	Mfr Disc.	11	J23253BX,L5				
J23253BZ,L1	Mfr Disc.	10	J23253BZ,L3				
			L4				

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