

MASTER TEST CONTROL CIRCUIT UNITS
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 circuits to be used in the manufacture and installation of master test control 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 provide control of the ACD marker trunk selection sequence relays. A single-plate unit (supplementary ACD test unit—J23255BJ) is added.
- (b) To rerate list 8 of J23255M from A&M Only to Mfr Disc. to bring this specification into agreement with circuit and manufacturing drawings.
- (c) To rate the following J codes Mfr Disc. since the associated features are no longer being ordered and are also rated Mfr Disc. J23255D,L5; J23255M,L8; J23255S,L7; J23255AA,L2,L3; J23255AF,L1; J23255AG,L1; J23255AH, L1; and J23255AP,L3.
- (d) To provide testing of wideband and/or bit-stream service J23255AP, List 5 is added

and "Fig. 11, ZPM option only" is removed from J23255BF, List 1.

- (e) To provide testing of ACD intraflow feature, J23255D,L7 is added.
- (f) To provide testing arrangements in offices modified from paper to magnetic tape recording of AMA calls, J23255K, List 5 is added.
- (g) To bring J23255 into agreement with SD-25800-01, Issues 88D and 89A.

1.03 The units listed herein, together with units of J23253, J23256, and J23258 are the "building blocks" for the master test frame which is covered in Section 819-700-150 (J23252). The equipment on each unit is surface wired with optional wiring and wiring which runs off the units furnished as part of the master test frame control bay local cable. Each unit is made up of 2-inch mounting plates 30-1/2 inches long. The keys and lamps associated with the unit are mounted on the key and lamp panels in the center of the bay and are connected to the units by means of the bay local cable. The J23255AA, J23255AC, J23255AD, J23255AE, J23255AF, J23255AG, J23255AH, J23255AJ, J23255AK, J23255AL, J23255AM, J23255AN, J23255AP, J23255AR, J23255AT, J23255AU, J23255AV, J23255AW, J23255AY, J23255BB, J23255BC, J23255BD, J23255BE, J23255BF, J23255BG, and J23255BH units are mounted on 23-inch mounting plates and are mounted on a miscellaneous relay rack frame.

SUBDIVISIONS OF EQUIPMENT AND DETAILED INDEX

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

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKT PER UNIT	MTG PLTS UNIT
J23255A	AT&TCo Std	Continuity & Grd Tests & Progress Ident Lp Cont Unit	J23255A-()	SD-25800-01, Fig. 15, 32, 34, 76, 86, & 94, SD-25918-01, Fig. 1	1	2
J23255B	AT&TCo Std	Called No. & No. Conn Unit	J23255B-()	SD-25800-01, Fig. 4, 5, & 13	1	2
J23255C	AT&TCo Std	L Ident & Verif Unit	J23255C-()	SD-25800-01, Fig. 6, 7, 23, & M	1	3
J23255D	AT&TCo Std	Ckt Sel Unit	J23255D-()	SD-25800-01, Fig. 9, 10, & V SD-25918-01, Fig. 1	1	2
J23255E	AT&TCo Std	Inc Unit	J23255E-()	SD-25800-01, Fig. 11, 12, & 13	1	3
J23255F	AT&TCo Std	L Hold Mag & No-Test Conn Cont Unit	J23255F-()	SD-25800-01, Fig. 14 & 58	1	1
J23255G	AT&TCo Std	Tst Start & Rls Cont; & Mkr, Reg, & Sdr Tst Cont Unit	J23255G-()	SD-25800-01, Fig. 1, 2, 22, 24, 31, A, N, & P	1	3
J23255H	AT&TCo Std	Trk Tst, L Verif, & L Tst Cont Unit	J23255H-()	SD-25800-01, Fig. 3, 6, 9, 60, 77, 97, & K	1	2
J23255J	AT&TCo Std	AMA L Verif & Trans- verter Tst Cont Unit	J23255J-()	SD-25800-01, Fig. B	1	1
J23255K	AT&TCo Std	Transverter Tst Unit	J23255K-()	SD-25800-01, Fig. 20, 30, & D	1	4
J23255L	AT&TCo Std	Sdr Sel Unit	J23255L-()	SD-25800-01, Fig. 35 & 36	1	1
J23255M	AT&TCo Std	PBX Hunt & No-Test Tst Cont Unit	J23255M-()	SD-25800-01, Fig. 16 & 17	1	2
J23255N	AT&TCo Std	Pretranslator Tst Unit	J23255N-()	SD-25800-01, Fig. F	1	2

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKT PER UNIT	MTG PLTS UNIT
J23255P	AT&TCo Std	Pulse Conversion Tst Unit	J23255P-()	SD-25800-01, Fig. H	1	1
J23255R	AT&TCo Std	Conn & Trk TT Rel Check Unit	J23255R-()	SD-25800-01, Fig. 25 & 26	1	1
J23255S	AT&TCo Std	Tst Pref & Tst Pref Cont Unit	J23255S-()	SD-25800-01, Fig. 27, 29, & 39	1	1
J23255T	AT&TCo Std	Class of Serv & Surge Opr of Hold Mag Unit	J23255T-()	SD-25800-01, Fig. 7, 37, 38, 39, & 89	1	1
J23255U	AT&TCo Std	CAMA and CAMA/ANI Test Unit	J23255U-()	SD-25800-01, Fig. 40, 41, 42, 44, 45, 46, 48, 64, 93, 100, Q, & R	1	3
J23255V	AT&TCo Std	Four-Wire and Tandem AMA Cont Unit	J23255V-()	SD-25800-01, Fig. 49, 117	1	2
J23255W	A&M Only	CAMA Simulated Pos & Pos Sel Unit	J23255W-()	SD-25800-01, Fig. 40	1	.1
J23255X	AT&TCo Std	Centrex Test Unit	J23255X-()	SD-25800-01, Fig. 55 & 56	1	1
J23255Y	AT&TCo Std	ANI Transverter and ANI Test Cont Unit	J23255Y-()	SD-25800-01, Fig. 45, 48, 64, 93, & 100	1	1
J23255AA	AT&TCo Std	Sup 4-Wire Tst Unit	J23255AA-()	SD-25800-01, Fig. 49, 59, & 62	1	2
J23255AC	AT&TCo Std	Line Identifier Test Unit	J23255AC-()	SD-25800-01, Fig. 87	1	4
J23255AD	AT&TCo Std	Paired Line Link Con- trol Unit	J23255AD-()	SD-25800-01, Fig. 90	1	1
J23255AE	AT&TCo Std	Sup Continuity Test Unit	J23255AE-()	SD-25800-01, Fig. 94	1	1
J23255AJ	AT&TCo Std	Direct Access Pre- translator Connector Test Unit	J23255AJ-()	SD-25800-01, Fig. 101	1	1
J23255AK	AT&TCo Std	PBX Block Selection Hunting Group Test Control Unit	J23255AK-()	SD-25800-01, Fig. 107	1	2
J23255AL	AT&TCo Std	MTF Supplementary Relay Unit A	J23255AL-()	SD-25800-01, Fig. 60, 105, & 108, 109, & M	1	1

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKT PER UNIT	MTG PLTS UNIT
J23255AM	AT&TCo Std	Centrex Dial Transfer Test Unit	J23255AM-()	SD-25800-01, Fig. 86	1	2
J23255AN	AT&TCo Std	MTF Supplementary Relay Unit B	J23255AN-()	SD-25800-01, Fig. 111 SD-94820-01, Fig. 2	1	1
J23255AP	AT&TCo Std	MTF Supplementary Relay Unit C	J23255AP-()	SD-25800-01, Fig. 114	1	1
J23255AR	AT&TCo Std	Magnetic Tape Recording Test Unit	J23255AR-()	SD-25800-01, Fig. 127	1	4
J23255AS	AT&TCo Std	Transv Test Unit For LAMA Office	J23255AS-()	SD-25800-01, Fig. 20, 30, & 132	1	3
J23255AT	AT&TCo Std	Master Test Fr Suppl Unit D	J23255AT-()	SD-25800-01, Fig. 1	1	1
J23255AU	AT&TCo Std	Wideband/Bit-Stream Test Control Unit	J23255AU-()	SD-25800-01, Fig. 135 & 136	1	19
J23255AV	AT&TCo Std	Wideband/Bit-Stream Service Relay Unit	J23255AV-()	SD-25800-01, Fig. 135	1	7
J23255AW	AT&TCo Std	Line Verification Cut-In Relay Unit	J23255AW-()	SD-25800-01, Fig. 136	10	1
J23255AY	AT&TCo Std	Wideband Remote Switch Relay Unit	J23255AY-()	SD-25800-01, Fig. 139	40	7
J23255BB	AT&TCo Std	MTF Call-Waiting Unit	J23255BB-()	SD-25800-01, Fig. 146 SD-94820-01, Fig. 2	1	4
J23255BC	AT&TCo Std	MTF Supplementary Access Group Control Unit	J23255BC-()	SD-25800-01, Fig. 151, 152	1	1
J23255BD	AT&TCo Std	MTF Supplementary Relay Unit E	J23255BD-()	SD-25800-01, Fig. 1, 40, 4, 14, 149	1	1
J23255BE	AT&TCo Std	MTF Supplementary Relay Unit F	J23255BE-()	SD-25800-01 Fig. 154	1	1
J23255BF	AT&TCo Std	MTF Supplementary Relay Unit G	J23255BF-()	SD-25800-01 Fig. 1	1	1
J23255BG	AT&TCo Std	Supplementary MAMA Unit	J23255BG-()	SD-25800-01 Fig. 127	1	1
J23255BH	AT&TCo Std	Permanent Signal Test Control Unit	J23255BH-()	SD-25800-01 Fig. 158	1	1
J23255BJ	A&M Only	Supplementary ACD Test Unit	J23255BJ-()	SD-25800-01 Fig. 160	1	1

Circuit Schematic Index

CIRCUIT DRAWING	J23255 EQUIP CODE
SD-25800-01	A-AE, AJ-AY, BB-BJ
SD-25918-01	A,D
SD-94820-01	AN,BB

2. SUPPLEMENTARY INFORMATION

819-000-000—Numerical Index—No. 5 Crossbar System—Equipment Design Requirements
 J23252—819-700-150—Master Test Frame
 J29259—819-005-150—General Outline—No. 5 Crossbar System

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-25800-01—Master Test Control Circuit
 SD-25918-01—Master Test Frame Trunk Test Circuit
 SD-94820-01—Common Systems—Time Delay Control Circuit

4. EQUIPMENT***J23255A—AT&TCo Std—Continuity and Ground Tests and Progress Identification Lamp Control Unit***

Equipment—J23255A-()

List 2—A&M Only—Equipment and wiring per SD-25800-01, Fig. 32, required in addition to list 1 when number groups are allotted for large PBX groups.

List 3—Assembly, wiring, and equipment for one continuity and ground test and progress identification lamp control unit per SD-25800-01, Fig. 15, 32, 34 (less keys), and 86, FCGB resistors only, and Fig. 7, TNK relay only. (See 5.01)

List 4—Wiring and apparatus required in addition to list 3 per SD-25800-01, Fig. 94, (CT, CTA, and FCGB resistors only) when the office is equipped with the 4-wire or dial transfer features.

List 5—Equipment and wiring per SD-25800-01, Fig. 76, less ZYA option, required in addition to list 3 when the office is arranged for 4-wire or universal pad control. (See 5.01 and 5.03.)

List 6—Equipment and wiring per SD-25918-01, Fig. 1, VF option only, required in addition to list 3 when office is equipped with 2-way off-net access lines.

J23255B—AT&TCo Std—Called Number and Number Connector Unit

Equipment—J23255B-()

List 2—A&M Only—Equipment and wiring per SD-25800-01, Fig. 5, N option, required in addition to list 1 when AMA, CAMA, or ANI is required. (See Note A.)

List 3—A&M Only—Equipment and wiring per SD-25800-01, Fig. 5, Q option, required in addition to list 1 when trunk test calls require 1-code digit preceding the terminating test line numerical digits.

List 4—A&M Only—Equipment and wiring per SD-25800-01, Fig. 5, R option, required in addition to list 1 when trunk test calls require 2-code digits preceding the terminating test line numerical digits.

List 5—A&M Only—Equipment and wiring per SD-25800-01, Fig. 5, S option, required in addition to list 1 when trunk test calls require 3-code digits preceding the terminating test line numerical digits.

List 6—A&M Only—Equipment and wiring per SD-25800-01, Fig. 4, T, U, V, W, X, Y, and Z options, required in addition to list 1 for 5, 6, 7, 8, 9, 10, and 11 digits.

List 13—Assembly, wiring, and equipment per SD-25800-01, Fig. 4 and 5, N option, and Fig. 13, IY option only, for one called number and number connector unit. (See Note A, 5.01, 5.02, and 5.03.)

Note

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

1. A&M Only—Wiring per SD-25800-01, Fig. 5, ZA option, required in addition to list 2 and 7 where AMA, CAMA, or ANI is provided and the number of digits in the code for the office is zero.

2. A&M Only—Wiring per SD-25800-01, Fig. 5, ZB option, required in addition to list 2 or 7 where AMA, CAMA, or ANI is provided and the number of digits in the code for the office is one.
3. A&M Only—Wiring per SD-25800-01, Fig. 5, ZC option, required in addition to list 2 or 7 where AMA, CAMA, or ANI is provided and the number of digits in the code for the office is two.
4. A&M Only—Wiring per SD-25800-01, Fig. 5, ZD option, required in addition to list 2 or 7 where AMA, CAMA, or ANI is provided and the number of digits in the office code is three.
5. A&M Only—Wiring per SD-25800-01, Fig. 4, XI option, required in addition to list 1 or 7 when the automatic monitor, register, and sender test circuit is provided.

J23255C—AT&TCo Std—Line Identification and Verification Unit

Equipment—J23255C()

List 2—A&M Only—Equipment and wiring per SD-25800-01, Fig. S, required in addition to list 6 when the number of line link frames in the office exceeds ten.

List 3—A&M Only—Equipment and wiring per SD-25800-01, Fig. 6, ZF option, required in addition to list 6 when the number of vertical groups equipped in the office exceeds ten.

List 5—A&M Only—Equipment and wiring per SD-25800-01, Fig. 7, ZH option, required in addition to list 6, 8, or 9 when the number of classes of service in the office exceeds 20 or when an existing office is to be modified for 20 classes of service and 20 treatments.

List 7—A&M Only—Equipment and wiring per SD-25800-01, Fig. 23, required in addition to list 6 when free-number identification is required.

List 8—A&M Only—Equipment and wiring per SD-25800-01, Fig. 7, XA option, required in addition to list 6 when number of tandem classes (TAN or TAN0-4) furnished in the marker is none or one and the number of classes of service is greater than ten.

List 9—A&M Only—Equipment and wiring per SD-25800-01, Fig. 7, XB option, required in addition to list 6 when the number of tandem classes is two through five.

List 10—A&M Only—Equipment and wiring per SD-25800-01, Fig. 7, YZ option, required in addition to list 8 or 9 when the number of classes of service is greater than ten or when an existing office is modified for 20 classes of service and 20 rate treatments.

List 11—Assembly, wiring, and equipment per SD-25800-01, Fig. 6, 23, and M, less options, Fig. 7, with XE option and less ED option, for one line identification and verification unit. (See 5.01, 5.02, and 5.03.)

List 12—Equipment and wiring required in addition to list 11 when the office is not arranged for line link pulsing or automatic intercept features per SD-25800-01, Fig. M, ZYM option only.

List 13—Equipment and wiring required in addition to list 11 when the office is arranged for line link pulsing and/or automatic intercept features per SD-25800-01, Fig. M, ZYN option only.

Note

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

1. A&M Only—Wiring per SD-25800-01, Fig. 7, YW option, required in addition to list 6 or 11 when the number of tandem classes (TAN or TAN0-4) furnished in the marker is two through five and the automatic monitor, register, and sender test circuit is provided.
2. A&M Only—Wiring per SD-25800-01, Fig. 7, XL option, required in addition to list 6 when the number of tandem classes (TAN or TAN0-4) furnished in the marker is two through five and the automatic monitor, register, and sender test circuit is not provided.
3. A&M Only—Wiring per SD-25800-01, Fig. 11, YV option, required in addition to list 1 when the number of tandem classes is none or one and the automatic monitor, register, and sender test circuit is provided.

4. A&M Only—Wiring per SD-25800-01, Fig. 11, YW option, required in addition to list 1 when the number of tandem classes is two through five and the automatic monitor, register, and sender test circuit is provided.

J23255D—AT&TCO Std—Circuit Selection Unit

Equipment—J23255D-()

- List 2**—A&M Only—Equipment and wiring per SD-25800-01, Fig. U, P option, required in addition to list 1 when more than ten trunk link frames are equipped or when the number of trunk link frames is less than ten and Fig. U is furnished, and the office is arranged for digit-1 access code.
- List 3**—A&M Only—Equipment and wiring per SD-25800-01, Fig. 9, D option, required in addition to list 1 when the marker is equipped with a 2-step allotter.
- List 6**—Assembly, wiring, and equipment for one selection unit per SD-25800-01, Fig. 9, 10, and V, and D option; SD-25918-01, Fig. 1, VI option.
- List 7**—A&M Only—Equipment and wiring per SD-25800-01, Fig. 155 (J1 and J4 diodes only), required in addition to list 1, 4, or 6 when office is arranged for testing ACD intraflow feature.

J23255E—AT&TCO Std—Incoming Unit

Equipment—J23255E-()

- List 2**—A&M Only—Equipment and wiring per SD-25800-01, Fig. 12 and 13, N option, required in addition to list 1, when AMA, CAMA, or ANI is provided.
- List 3**—A&M Only—Equipment and wiring per SD-25800-01, Fig. 12 and 13, M option, required in addition to list 1 when markers are arranged for tandem or intertoll switching.
- List 4**—A&M Only—Equipment and wiring per SD-25800-01, Fig. 11, ZE option, required in addition to list 1 when the rate discrimination between physical and theoretical offices is to be controlled by high- and low-group selection in reverive pulse incoming registers.
- List 5**—A&M Only—Equipment and wiring per SD-25800-01, Fig. 12, H option, required in addition to list 1 when lists 2 and/or 3

are required.

- List 6**—A&M Only—Equipment and wiring per SD-25800-01, Fig. 11, WC option, required in addition to list 1 when 2-digit translation is required for BX codes incoming from other offices where the first digit of a 3-digit code is used to reach the No. 5 office.

- List 7**—A&M Only—Equipment and wiring per SD-25800-01, Fig. 11, YY option, required in addition to list 1 when the number of tandem classes (TAN or TAN0-4) furnished in the marker is two through five or when 2-digit translation is provided.

- List 10**—A&M Only—Equipment per SD-25800-01, Fig. 11, WD and WJ apparatus only, required in addition to list 1 when office is arranged for 1- or 2-digit office codes but must receive 3-code digits in addition to customer number on intermarker group, trunk to customer calls, or when extratheoretical numbers are provided.

- List 11**—Assembly, wiring, and equipment per SD-25800-01, Fig. 11, 12, and 13, and N and ZE options for one incoming unit. (See Note A.)

Note

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

1. A&M Only—Wiring per SD-25800-01, Fig. 11, XM option, required in addition to list 1 when the number of tandem classes (TAN or TAN0-4) furnished in the marker is none or one and the automatic monitor, register, and sender test circuit is not provided.
2. A&M Only—Wiring per SD-25800-01, Fig. 11, XL option, required in addition to list 1 when the number of tandem classes (TAN or TAN0-4) furnished in the marker is two through five and the automatic monitor, register, and sender test circuit is not provided.
3. A&M Only—Wiring per SD-25800-01, Fig. 11, YV option, required in addition to list 1 when the number of tandem classes is none or one and the automatic monitor, register, and sender test circuit is provided.

4. A&M Only—Wiring per SD-25800-01, Fig. 11, YW option, required in addition to list 1 when the number of tandem classes is two through five and the automatic monitor, register, and sender test circuit is provided.
5. A&M Only—Wiring per SD-25800-01, Fig. 11, XI option, required in addition to list 1 when the automatic monitor, register, and sender test circuit is provided.
6. A&M Only—Wiring per SD-25800-01, Fig. 11, WG and YX options, required in addition to list 1 when 2-digit translation is required for BX codes incoming from other offices where the first digit of a 3-digit code is used to reach the No. 5 office and the automatic monitor, register, and sender test circuit is provided.
7. A&M Only—Wiring per SD-25800-01, Fig. 11, XP option, required in addition to list 1 when 2-digit translation is required for BX codes incoming from other offices where the first digit of a 3-digit code is used to reach the No. 5 office and the automatic monitor, register, and sender test circuit is not provided.
8. A&M Only—Wiring per SD-25800-01, Fig. 11, WD option, required in addition to list 1 when office is arranged for 1- or 2-digit office codes but must receive 3-code digits in addition to customer number on intermarker group trunk to customer calls.
9. A&M Only—Wiring per SD-25800-01, Fig. 11 and 13, WJ option, required in addition to list 1 when extratheoretical numbers are provided.
10. A&M Only—Wiring per SD-25800-01, Fig. 11, WI option, required in addition to list 1 when extratheoretical numbers are not provided.
11. A&M Only—Wiring per SD-25800-01, Fig. 11, WH option, required in addition to list 1 when the automatic monitor, register, and sender test circuit is used for testing incoming registers having nontandem class and requiring local translation.

J23255F—AT&TCo Std—Line Hold Magnet and No-Test Connector Controller Unit

Equipment—J23255F-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. 14, for one line hold magnet and no-test connector controller unit. (See 5.01.)

List 2—Equipment and wiring per SD-25800-01, Fig. 58, required in addition to list 1 when the office is arranged for number group tens block screening.

J23255G—AT&TCo Std—Test Start and Release Controller; and Marker, Register, and Sender Test Controller Unit

Equipment—J23255G-()

List 2—A&M Only—Equipment and wiring per SD-25800-01, Fig. 1, G option, required in addition to list 1 when both dial pulse and multifrequency originating registers are furnished in the office.

List 3—A&M Only—Equipment and wiring per SD-25800-01, Fig. 21, required in addition to list 1 for marker, pretranslator, and transverter selection; one list required per each two markers in the office.

List 4—A&M Only—Equipment and wiring per SD-25800-01, Fig. 22, less options, required in addition to list 1 for offices equipped for intermarker group operation.

List 5—Equipment and wiring per SD-25800-01, Fig. 2, XI option, required in addition to list 1 or 10 when the automatic monitor, register, and sender test circuit is provided. (See Note A.)

List 6—A&M Only—Equipment and wiring per SD-25800-01, Fig. 31, required in addition to list 1 when the automatic monitor, register, and sender test circuit is not provided and when the register test set for testing originating register is provided.

List 7—Equipment and wiring per SD-25800-01, Fig. N, required in addition to list 1 or 10 when the sender test circuit is provided.

List 8—A&M Only—Equipment and wiring per SD-25800-01, Fig. 22, XZ option, required in addition to lists 1 and 4 when the sender test circuit is not provided.

List 9—A&M Only—Key equipment per SD-25800-01, Fig. 2, XI option, and Fig. 75, IR/IMS key only, required in addition to list 4 or 5.

List 10—Assembly, wiring, and equipment per SD-25800-01, Fig. 1, and G option; Fig. 2, less options; Fig. 22, and XZ option; and Fig. 24 and 31 for one test start and release controller and marker register and sender test controller unit. (See 5.01 and 5.03.)

Note

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

1. A&M Only—Wiring per SD-25800-01, Fig. A, required in addition to list 1 when AMA, CAMA, or ANI is not provided.
2. A&M Only—Wiring per SD-25800-01, Fig. 1, YF option, and Fig. 2, VW option, required in addition to list 1 when neither the automatic progression trunk test circuit nor the line verification circuit is provided.
3. A&M Only—Wiring per SD-25800-01, Fig. 1 and 2, VV and YG options, required in addition to list 1 when either the automatic progression trunk test circuit and/or the line verification circuit is provided.
4. A&M Only—Wiring per SD-25800-01, Fig. 1, 22, and N, XI option, required in addition to list 1 when the automatic monitor, register, and sender test circuit is provided.
5. A&M Only—Wiring per SD-25800-01, Fig. 1, XJ option, required in addition to lists 1 and 6 when the automatic monitor, register, and sender test circuit is not provided and when the register test set is provided.
6. A&M Only—Wiring per SD-25800-01, Fig. P, required in addition to list 1 when the sender test circuit is not provided.
7. A&M Only—Wiring per SD-25800-01, Fig. 1, XF option, required in addition to list 1 when route translation of local office codes for foreign areas is not provided.

J23255H—AT&T Co Std—Trunk Test, Line Verification, and Line Test Controller Unit

Equipment—J23255H-()

List 2—A&M Only—Equipment and wiring per SD-25800-01, Fig. 3, J option, required in addition to list 1 when marker operates with outgoing senders or AMA senders.

List 3—A&M Only—Equipment and wiring per SD-25800-01, Fig. 3, YF option, required in addition to list 1 when neither the automatic progression trunk test circuit nor the line verification circuit is provided.

List 4—A&M Only—Equipment and wiring per SD-25800-01, Fig. 3, XI option, required in addition to list 1 when the automatic monitor, register, and sender test circuit is provided.

List 6—Equipment and wiring per SD-25800-01, Fig. 60, required in addition to list 5 or 10 when the office is arranged for line link pulsing and/or automatic intercept service using line link pulsing.

List 7—A&M Only—Equipment and wiring per SD-25800-01, Fig. 9, FD option only, required in addition to list 5 when the office is arranged for overload announcement and/or automatic call distribution and/or wideband switching. (See 5.01 and 5.03.)

List 8—Equipment and wiring per SD-25800-01, Fig. 77, less ZXZ option, required in addition to list 5 or 10 when the office is arranged for customer group traffic sampling. (See 5.01 and 5.03.)

List 9—Equipment and wiring per SD-25800-01, Fig. 97, required in addition to list 5 or 10 when line link pulsing or centrex and/or automatic intercept service using line link pulsing is provided. (See 5.01 and 5.03.)

List 10—Assembly, wiring, and equipment per SD-25800-01, Fig. 3, and ZQN (AL resistance only), and YF (NI resistance only) options; Fig. 6, JF option; Fig. 9, FD options; and Fig. K for one test trunk line verification and line test controller unit. (See 5.01 and 5.03.)

List 11—Wiring and equipment required in addition to list 5 or 10 in offices arranged for testing 2-way off-net access lines (or centrex multilevel precedence preemption 2-way trunks) per SD-25800-01, Fig. 133.

Note

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

1. A&M Only—Wiring per SD-25800-01, Fig. A, required in addition to list 1 when AMA, CAMA, or ANI is not provided.
2. A&M Only—Wiring per SD-25800-01, Fig. 3 and K, YG option, required in addition to list 1 when either the automatic progression trunk test circuit and/or the line verification circuit is provided.

J23255J—AT&TCo Std—AMA Line Verification and Transverter Test Controller Unit

Equipment—J23255J-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. B; for one AMA line verification and transverter test controller unit required when AMA, CAMA, or ANI is provided.

Note

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

1. Wiring per SD-25800-01, Fig. B, NL option, must be removed in offices arranged for AMA and equipped for intermarker group operation only, and combined marker line verification—transverter line verification tests are desired.

J23255K—AT&TCo Std—Transverter Test Unit

Equipment—J23255K-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. 20 and 125, ZXF and ZXH options, for one transverter test unit when AMA, CAMA, or ANI is provided and the office is arranged for paper tape recording. (See 5.01.)

List 2—Equipment and wiring per SD-25800-01, Fig. 30, ML option, required in addition to list 1 or 3 when the office is arranged for foreign area translation for seven through 12 foreign areas.

List 3—Equipment (mounting plate only) required

in addition to list 2 when AMA, CAMA, or ANI is not provided.

List 4—Equipment and wiring per SD-25800-01, Fig. 20, DZ option only, required in addition to list 1 when AIOD translators are provided and associated with conventional PBXs. (See 5.01 and 5.03.)

List 5—A&M Only—Equipment and wiring per SD-25800-01, Fig. 161, required in addition to list 1 when an office arranged for paper tape recording is modified for magnetic tape recording of AMA calls.

Note

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

1. A&M Only—Wiring per SD-25800-01, Fig. C, WJ option, required in addition to list 1 when extratheoretical numbers are provided.

J23255L—AT&TCo Std—Sender Selection Unit

Equipment—J23255L-()

List 2—A&M Only—Equipment and wiring per SD-25800-01, Fig. 36, required per sender group in addition to list 1 to equip one sender group delay.

List 3—Assembly, wiring, and equipment per SD-25800-01, Fig. 35, and X and TH options, and 12 Fig. 36 for one sender selection unit required when markers operate with senders. (See 5.01.)

J23255M—AT&TCo Std—PBX Hunt and No-Test Test Controller Unit

Equipment—J23255M-()

List 2—Equipment and wiring per SD-25800-01, Fig. 16, YD and ZR options, required in addition to list 1 or 7 when special marker is equipped with message registration potential detector.

List 3—A&M Only—Equipment and wiring per SD-25800-01, Fig. 17, N option, required in addition to list 1 when AMA, CAMA, or ANI is provided.

List 4—A&M Only—Equipment and wiring per SD-25800-01, Fig. 17, K option, required in addition to list 1 when coin service is provided.

List 5—A&M Only—Equipment and wiring per SD-25800-01, Fig. 17, M option, required in addition to list 1 when tandem or intertoll switching is provided.

List 6—A&M Only—Equipment and wiring per SD-25800-01, Fig. 17, VM option, TOBS key, required in addition to list 1 when markers are arranged for trunk service observing.

List 7—Assembly, wiring, and equipment per SD-25800-01, Fig. 16, less options, and Fig. 17, for one PBX hunt and no-test controller. (See 5.01, 5.03, and 5.04.)

J23255N—AT&TCo Std—Pretranslator Test Unit

Equipment—J23255N-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. 5, required in offices equipped with pretranslators.

List 2—A&M Only—Wiring and equipment per SD-25800-01, Fig. F, ZI, ZJ, and ZK options, respectively, required in addition to list 1 for each additional start index without stations delay or a start without index stations delay for X0X and X1X codes and/or the corresponding indexes with stations delay are required.

J23255P—AT&TCo Std—Pulse Conversion Test Unit

Equipment—J23255P-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. H, for one pulse conversion test unit required in offices equipped for pulse conversion. (See 5.01 and 5.03.)

J23255R—AT&TCo Std—Connector and Trunk TT Relay Check Unit

Equipment—J23255R-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. 25 and 26, for one connector and trunk TT relay check unit.

List 2—A&M Only—Equipment and wiring per SD-25800-01, Fig. 25, YO option, required in addition to list 1 when the number of trunk link frames exceeds ten.

J23255S—AT&TCo Std—Test Preference and Test Preference Control Unit

Equipment—J23255S-()

List 2—A&M Only—Equipment and wiring per SD-25800-01, Fig. 29, required in addition to list 1 when AMA, CAMA, or ANI is provided and either the automatic progression trunk test circuit or line verification test circuit or both are provided.

List 3—A&M Only—Equipment and wiring per SD-25800-01, Fig. 27, XI option, required in addition to list 1 when the automatic monitor, register, and sender test circuit is provided.

List 5—Assembly and equipment (mounting plate only) required when the first of the following lists are provided.

List 6—Equipment and wiring per SD-25800-01, Fig. 29, required in addition to list 5 when office is arranged for magnetic tape recording or when the office is equipped with APTT, ROTL, LV, TT REG, ARET, or TT REG (wideband) circuits with CAMA, AMA, or ANI provided.

List 8—Equipment and wiring to provide improved 4-wire echo suppression or pad control testing per SD-25800-01, Fig. 76, ZYA option only, less lamps. (See 5.03.)

J23255T—AT&TCo Std—Class of Service and Surge Operation of Hold Magnet Unit

Equipment—J23255T-()

List 2—A&M Only—Wiring and equipment per SD-25800-01, Fig. 37, required in addition to list 1 when the number of classes of service to be provided is greater than 30.

List 3—A&M Only—Wiring and equipment per SD-25800-01, Fig. 38, required in addition to list 1 or 7 when surge operation of hold magnets is provided.

List 5—Assembly, wiring, and equipment per SD-25800-01, Fig. 7, with ED option, Fig. 38 and 89, RG and RX options only, for class-of-service selection on a tens and units basis and surge operation of hold magnets.

List 6—Equipment and wiring per SD-25800-01, Fig. 7, RH option only, required in addition to list 5 when one to 20 rate treatments are required.

List 9—A&M Only—Mounting plate, assembly, and equipment per SD-25800-01, Fig. 89, required to prevent tied up originating registers due to a false ground on the M lead at the trunk link connector in offices without surge operation of hold magnets arranged for test set testing of originating registers.

Note

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

1. A&M Only—Wiring per SD-25800-01, Fig. 37, VE option, required in addition to list 4 when neither the automatic progression trunk test circuit nor the line verification circuit is provided.
2. A&M Only—Wiring per SD-25800-01, Fig. 37, VJ option, required in addition to list 4 when either the automatic progression trunk test circuit and/or the line verification circuit is required.
3. Wiring per AJ and AK options required as specified in Note 102 of SD-25800-01.

J23255U—AT&TCo Std—CAMA and CAMA/ANI Test Unit

Equipment—J23255U-()

List 1—A&M Only—Assembly, wiring, and equipment per SD-25800-01, Fig. 41 (less IT option), 42, 44, 45, 46, and R for one CAMA test unit required when CAMA is provided in the office. (See Note B, 5.01, 5.03, and 5.05.)

List 2—Wiring and equipment per SD-25800-01, Fig. 48, 64, and 93, required in addition to list 1 when the office is equipped with the register priority link or the preemption features.

List 3—Assembly, wiring, and equipment per SD-25800-01, Fig. 40 (less IQ option), Fig. 41 (less IS option), Fig. 42, 44, 46, and R for one CAMA test unit required when the office is arranged for CAMA. (See 5.01 and 5.03.)

List 4—Wiring and equipment per SD-25800-01, Fig. 48, less IK option, required in addition to list 1 or 3 when the office is arranged for both CAMA and ANI. (See 5.03.)

List 5—Wiring and equipment per SD-25800-01, Fig. 64, required in addition to list 4 when ANI transverters are provided.

List 6—Wiring and equipment per SD-25800-01, Fig. 100, required in addition to list 4 when combined CAMA-ANI transverters are provided.

Notes

A. Reserved.

B. A&M Only—List 1 should be provided when CAMA is added to an office equipped with J23252U-() arranged for CAMA, but not equipped with either CAMA or ANI.

J23255V—AT&TCo Std—Four-Wire and Tandem AMA Control Unit

Equipment—J23255V-()

List 4—Assembly and common equipment required for one 4-wire and tandem AMA control unit required when office is arranged for the 4-wire or tandem AMA feature.

List 5—Wiring and equipment required in addition to list 4 when office is equipped with the 4-wire feature per SD-25800-01, Fig. 49, less AL, PY, GS, and EZ options.

List 6—Wiring and equipment required in addition to list 4 when office is arranged for tandem AMA per SD-25800-01, Fig. 117.

List 7—Wiring and equipment per SD-25800-01, Fig. 49, AL option only, required in addition to list 5 when an automatic monitor, register, and sender test circuit not arranged for 4-wire is provided in an office with 4-wire or 2-wire and 4-wire lines.

Note

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

1. Wiring per AM and RR options required as specified in Note 102 of SD-25800-01.

J23255W—A&M Only—CAMA Simulated Position and Position Selection Unit

Equipment—J23255W-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. 40 (less IR option), for one simulated position and position selection unit required when CAMA is provided in the office. (See 5.01 and 5.03.)

J23255X—AT&TCo Std—Centrex Test Unit

Equipment—J23255X-()

List 1—A&M Only—Assembly, wiring, and equipment per SD-25800-01, Fig. 55 with PQ option, and Fig. 56 for one centrex test unit, required when centrex service is provided. (See 5.01 and 5.03.)

List 2—Assembly, wiring, and equipment per SD-25800-01, Fig. 55 with PR option, and Fig. 56 for one centrex test unit required when centrex service is provided. (See 5.01 and 5.03.)

J23255Y—AT&TCo Std—ANI Transverter and ANI Test Control Unit

Equipment—J23255Y-()

List 1—A&M Only—Assembly, wiring, and equipment per SD-25800-01, Fig. 45 and 48 (less IL option) and Fig. 64 for one ANI transverter test control unit required when the office is arranged for ANI. (See Note C and 5.05.)

List 2—Wiring and equipment per SD-25800-01, Fig. 48 (less IK option) and Fig. 93, required in addition to list 1 when the office is equipped with the register priority link or the preemption features.

List 3—Wiring and equipment per SD-25800-01, Fig. 64, required in addition to list 2 when ANI transverters are provided.

List 4—Wiring and equipment per SD-25800-01, Fig. 100, required in addition to list 2 when combined LAMA-ANI transverters are provided.

Notes

- A. Reserved.
- B. Prior to Issue 49 of SD-25800-01, Fig. 46 was part of this unit.
- C. A&M Only—List 1 should be provided when ANI is added to an existing office equipped

with J23255U-() arranged for ANI, but not equipped with either CAMA or ANI.

J23255AA—AT&TCo Std—Supplementary 4-Wire Test Unit

Equipment—J23255AA-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. 49 (PY, GS, and EZ options only), for one supplementary 4-wire test unit required when the office is equipped with the 4-wire feature. (See 5.03.)

Notes

- A. Reserved.
- B. This unit is located on a miscellaneous relay rack.

J23255AC—AT&TCo Std—Line Identifier Test Unit

Equipment—J23255AC-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. 87, for one line identifier test unit required in centrex offices arranged for dial transfer with line identifiers. (See 5.01 and 5.03.)

List 2—Wiring and equipment required in addition to list 1 when centralized attendant operation is provided per SD-25800-01, Fig. 87, ZUK option only.

List 3—Wiring and equipment required in addition to list 2 when 7-digit transfer is provided per SD-25800-01, Fig. 87, ZVK option only.

J23255AD—AT&TCo Std—Paired Line Link Control Unit

Equipment—J23255AD-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. 90, for one paired line link control unit required in offices arranged for paired line link operation. (See 5.01 and 5.03.)

J23255AE—AT&TCo Std—Supplementary Continuity Test Unit

Equipment—J23255AE-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. 94 (less CT, CTA, and FCGA resistors), for one supplementary continuity test unit required when the office is arranged for 4-wire or dial transfer. (See 5.01 and 5.03.)

J23255AJ—AT&TCo Std—Direct Access Pretranslator Connector Test Unit

Equipment—J23255AJ-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. 101, less ZWU option, for one direct access pretranslator connector test unit required when the office is arranged for direct access to No. 101 ESS.

List 2—Wiring and equipment per SD-25800-01, ZWU option only, required in addition to list 1 when office is arranged for wideband service.

Notes

- A. Reserved.
- B. This is a single-plate unit and mounts on miscellaneous relay rack.

J23255AK—AT&TCo Std—PBX Block Selection Hunting Group Test Control Unit

Equipment—J23255AK-()

List 1—Assembly, equipment, and wiring for a PBX block selection hunting group test control unit per SD-25800-01, Fig. 107.

Notes

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

J23255AL—AT&TCo Std—MTF Supplementary Relay Unit A

Equipment—J23255AL-()

List 4—Wiring and equipment per SD-25800-01, Fig. 109 (REX, LOLP, LOL, NCL, and NTRE relays only), required in addition

to list 1 or 9 in offices arranged for range extension of Unigauge lines.

List 5—Wiring and equipment per SD-25800-01, Fig. 108 (relays and resistor), required in addition to list 1 or 9 in offices arranged for test set type testing of originating registers arranged for toll diversion.

List 6—Wiring and equipment required in addition to list 1 or 9 in offices arranged for line link pulsing and/or automatic intercept features per SD-25800-01, Fig. M, ZYN option only.

List 7—Wiring and equipment required in addition to list 1 or 9 in offices having markers arranged for toll diversion per SD-25800-01, Fig. 131.

List 8—Wiring and equipment required in addition to list 9 in offices having line link pulsing per SD-25800-01, Fig. 60, ZTZ and BR options only.

List 9—Assembly and equipment (mounting plate and two terminal strips) required when the office is arranged for line link pulsing, range extension of Unigauge lines, test set testing of originating registers arranged for toll diversion or automatic intercept.

Notes

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

J23255AM—AT&TCo Std—Centrex Dial Transfer Test Unit

Equipment—J23255AM-()

List 1—Assembly, wiring, and equipment for one centrex dial transfer test unit required in centrex offices arranged for dial transfer per SD-25800-01, Fig. 86, less RW option. (See Notes B and C, 5.01, and 5.03.)

List 2—A&M Only—Wiring and equipment required in addition to list 1 for phase I and II centrex offices arranged for dial transfer and having test set testing per SD-25800-01, Fig. 86, RW option only.

Notes

- A. Reserved.

- B. Resistor FCGB is mounted on J23255A.
- C. This 2-plate unit is mounted on relay rack frame, preferably near other master test frame relay rack mounted units.

J23255AN—AT&TCo Std—MTF Supplementary Relay Unit B

Equipment—J23255AN-()

- List 1**—Assembly and equipment-mounting plate and one terminal strip required when the first of any of following lists are provided.
- List 2**—Wiring and equipment required in addition to list 1 when office is arranged for glare detection in accordance with SD-25800-01, Fig. 111, and SD-94820-01, Fig. 2. (See Note B, 5.01, and 5.03.)
- List 3**—Wiring and equipment required in addition to list 1 when office is arranged for pretranslators for use with incoming registers per SD-25800-01, Fig. 153 (less key and lamp).
- List 4**—A&M Only—Wiring and equipment required in addition to list 1 when an office equipped with nonwire spring markers is arranged for allotted PBX number groups per SD-25800-01, Fig. 107, option ZQT.

Notes

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

J23255AP—AT&TCo Std—MTF Supplementary Relay Unit C

Equipment—J23255AP-()

- List 1**—Assembly and equipment (mounting plate and terminal strip only) for one master test frame supplementary relay unit "C" required when the first of any of the following lists is provided.
- List 2**—Equipment and wiring required in addition to list 1 in all non-Autovon offices arranged for automatic intercept service or in offices arranged for 2-way off-net access lines or in offices arranged for centrex multilevel precedence preemption 2-way trunk, or in

offices arranged for wideband switching or 911 emergency reporting service per SD-25800-01, Fig. 114. (See Note C.)

List 4—Reserved.

List 5—Equipment and wiring required in addition to list 1 when wideband and/or bit-stream service is provided per SD-25800-01, Fig. 11, ZPM 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 relay rack mounted units.
- C. The wiring and apparatus required for automatic intercept service and/or 2-way off-net access service in Autovon offices is provided on the 4-wire multilevel test unit J23255AG.

J23255AR—AT&TCo Std—Magnetic Tape Recording Test Unit

Equipment—J23255AR-()

List 1—Assembly, wiring, and equipment per SD-25800-01, Fig. 127, and ZXG option, for one magnetic tape recording test unit.

J23255AS—AT&TCo Std—Transverter Test Unit For LAMA Office

Equipment—J23255AS-()

- List 1**—Assembly, wiring, and equipment per SD-25800-01, Fig. 20 and 132, for one transverter test unit when AMA or AMA-ANI is provided and the office is arranged for magnetic tape recording.
- List 2**—Equipment and wiring per SD-25800-01, Fig. 30, MC and MN options, required in addition to list 1 or 3 when the office is arranged for foreign area translation for seven through nine foreign areas.
- List 3**—Equipment and wiring per SD-25800-01, Fig. 20, DZ option, only required in addition to list 1 when AIOD translators are provided and associated with conventional PBXs. (See 5.01 and 5.03.)

**J23255AT—AT&TCo Std—Master Test Frame
Supplementary Unit D**

Equipment—J23255AT-()

List 1—Assembly, wiring, and equipment for one supplementary unit "D" per SD-25800-01, Fig. 1, ZZK, ZWN, ZVG, ZUA, ZUE, ZTE, ZTF, ZTG, ZTK, ZSJ, and ZRI options only. (See Note B.)

Notes

- A. Reserved.
- B. This unit is always required for the MTF control circuit and shall be mounted on miscellaneous relay rack frame preferably near other master test frame units.
- C. This unit is also required when an existing office is modified for any of the following features:
1. Magnetic Tape Recording.
 2. Traffic Sampling—Selected Trunk Group.
 3. Completing Marker Arranged for Toll Diversion.
 4. Wideband (Std).
 5. CAMA Transverter With New Numbering Plan.
 6. Automatic Intercept Service Without LLP.
 7. Interchangeable Area Codes and Local Office Codes.
 8. Call-Waiting.
 9. Line Hold Magnet Vertical Testing Having No Directory Number Assignment.
 10. Testing the markers improved treatment of permanent signals.

**J23255AU—AT&TCo Std—Wideband/Bit-Stream
Test Control Unit**

Equipment—J23255AU-()

List 1—Framework, assembly, common equipment, and local cable for one wideband/bit-stream test control unit arranged and wired for 40 wideband line links.

	WIRE	EQUIP	NOTES
Master Test Control Ckt, SD-25800-01: Wideband/Bit-Stream Service Relays, Fig. 135	1	0	C
Line Verification Cut-in Relays, Fig. 136	40	0	C

Notes

- A. Reserved.
- B. Each wideband test control unit shall be initially equipped with one wideband/bit-stream service relay unit (J23255AV) and one line verification cut-in relay unit (J23255AW). The J23255AU unit has a capacity of four J23255AW units and one J23255AV unit. The J23255AU unit is relay rack mounted.
- C. The equipment for Fig. 135 is provided in the J23255AV unit and the J23255AW unit consists of ten Fig. 136. The local cable associated with these units is provided in list 1 of the J23255AU unit.

**J23255AV—AT&TCo Std—Wideband/Bit-Stream
Service Relay Unit**

Equipment—J23255AV-()

List 1—Assembly, equipment, and wiring per SD-25800-01, Fig. 135, for one wideband/bit-stream service relay unit. (See Note B.)

List 2—Wiring and equipment per SD-25800-01, Fig. 135, ZPI and ZPJ options only, required in addition to list 1 in offices arranged for bit-stream switching.

Notes

- A. Reserved.

- B. This unit is surface wired and is mounted on the J23255AU unit.

J23255AW—AT&TCo Std—Line Verification Cut-In Relay Unit

Equipment—J23255AW-()

- List 1**—Assembly, wiring, and equipment per SD-25800-01, ten Fig. 136 for one line verification cut-in relay unit with a capacity of ten wideband line links and two wideband link frames. (See Note B.)

Notes

- A. Reserved.
- B. This unit is surface wired and a maximum of four are mounted on the J23255AU unit.

J23255AY—AT&TCo Std—Wideband Remote Switch Relay Unit

Equipment—J23255AY-()

- List 1**—Assembly, wiring, and equipment (mounting plates, terminal strips, mounting bars, and unit local cable only) for one wideband remote switch relay unit per 40 Fig. 139 of SD-25800-01. Required in wideband offices serving remote switch units. (See Note B.)

- List 2**—Equipment [one (WR—) relay and one (WR—) diode only] required in addition to list 1 for each remote switch unit served per SD-25800-01, Fig. 139. (See Note C.)

Notes

- A. Reserved.
- B. This unit requires 7-mounting plate space on miscellaneous relay rack and preferably should be located above or below wideband/bit-stream test unit J23255AU for cabling reasons.

- C. A maximum of 40 list 2 can be provided per list 1.

J23255BB—AT&TCo Std—Master Test Frame Call-Waiting Unit

Equipment—J23255BB-()

- List 1**—Assembly, wiring, and equipment for one MTF call-waiting unit per SD-25800-01, Fig. 146. (See Note B.)

Notes

- A. Reserved.
- B. This 3-plate unit shall be mounted on miscellaneous relay rack frame preferably near other master test frame units.

J23255BC—AT&TCo Std—MTF Supplementary Access Group Control Unit

Equipment—J23255BC-()

- List 1**—Assembly wiring and equipment for one supplementary access group control (AGC) unit required when more than one AGC circuit per network or more than five AGC circuits per marker group is provided per SD-25800-01, Fig. 151, and six Fig. 152. (Serves first six completing markers MC0-MC5.) (See Note B.)

- List 2**—Wiring and equipment required in addition to list 1 for each additional completing marker (MC6-MC11) per SD-25800-01, Fig. 152. (A maximum of six List 2 may be provided.)

Notes

- A. Reserved.
- B. This 2-plate unit is required when the office is arranged for access group control and shall be mounted on a miscellaneous relay rack frame, preferably near other units of the master test frame.

J23255BD—AT&TCo Std—Master Test Frame Supplementary Relay Unit E

Equipment—J23255BD-()

- List 1**—Assembly and equipment (mounting plate and terminal strips) only for one master test frame supplementary relay unit E. (See Note B.)

- List 2**—Equipment and wiring per SD-25800-01, Fig. 1, ZRA and ZRB options only required in addition to list 1 when the office is arranged for loop-around testing of tandem

and toll trunks with a second originating test line furnished. (See Note B.)

List 3—Wiring and equipment required in addition to list 1 when office is arranged for dynamic overload control per SD-25800-01, Fig. 140 (less keys and switches).

List 4—Wiring and equipment required in addition to list 1 when office is arranged for testing 12-digit IDDD per SD-25800-01, Fig. 4, ZSO option.

List 5—Wiring and equipment required in addition to list 1 when office is arranged for improved channel testing per SD-25800-01, Fig. 149 and Fig. 14, ZTP option only. (See Note B.)

Notes

A. Reserved

B. This 1-plate unit shall be mounted on a miscellaneous relay rack frame, preferably near other MTF relay rack mounted units. Lists 1, 2, and 5 are always provided.

J23255BE—AT&TCo Std—Master Test Frame Supplementary Unit F

Equipment—J23255BE-()

List 1—Assembly and equipment (mounting plate and terminal strip only) for one master test frame supplementary relay unit F required when any or all of the following circuits are provided: automatic progression trunk test, remote office test control, line verification, trunk test register, automatic range extension test, or trunk test register (wideband), or ROTL register.

List 2—Equipment and wiring required in addition to list 1 when any or all of the following circuits are provided: automatic progression trunk test, remote office test control, line verification, trunk test register, automatic range extension test, or trunk test register (wideband), or ROTL register per SD-25800-01, Fig. 154.

Notes

A. Reserved.

B. This 1-plate unit shall be mounted on a miscellaneous relay rack frame, preferably

near other master test frame relay rack mounted units.

J23255BF—AT&TCo Std—Master Test Frame Supplementary Relay Unit G

Equipment—J23255BF-()

List 1—Assembly, wiring, and equipment for one master test frame supplementary unit G per SD-25800-01, Fig. 1, ZQR and ZQV options only, and Fig. 3, ZPX option only. (See Note B.)

Notes

A. Reserved.

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

C. This unit is required when existing offices are being modified for any of the following features:

- (a) Call-waiting.
- (b) Elimination of a false HTR punch on a trouble record card of a service call.
- (c) Testing of the marker trunk guard.
- (d) Wideband and/or bit-stream service.
- (e) Automatic recycle of trunk tests.
- (f) Testing the markers improved treatment of permanent signals.

J23255BG—AT&TCo Std—Supplementary Magnetic Automatic Message Accounting Unit

Equipment—J23255BG-()

List 1—Assembly, equipment, and wiring per SD-25800-01, Fig. 127, ZTW option only required in an office which has transverters arranged to handle ANI traffic and is arranged for magnetic tape recording of AMA calls.

Notes

- A. Reserved.
- B. This 1-plate unit is to be mounted on a miscellaneous relay rack frame preferably near other master test frame units. J23255AR unit is a prerequisite.

J23255BH—AT&TCo Std—Permanent Signal Test Control Unit

Equipment—J23255BH-()

- List 1**—Assembly, wiring, and equipment per SD-25800-01, Fig. 158 (less keys and lamps) for one permanent signal test control unit required when the office is arranged for improved permanent signal treatment. (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 relay rack mounted units.

J23255BJ—A&M Only—Supplementary ACD Test Unit

Equipment—J23255BJ-()

- List 1**—Assembly, wiring, and equipment for one supplementary ACD test unit required when control of the ACD markers trunk selection sequence relays is provided per SD-25800-01, Fig. 160. (See Note B.)

Notes

- A. Reserved.

- B. This 1-plate unit shall be mounted in position 41L of the MTF Control Bay J23252AJ-().

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. Such optional wiring shall be included in the bay local cable for the master test frame control bays per J23252AU, A&M Only, or J23252AJ. This bay local cable shall contain all wiring not provided as surface wiring.

5.02 Cross-connection terminal facilities are provided on terminal strips at the top of the master test frame control bays and connected to the apparatus on the units by leads in the bay local cable.

5.03 All switches, keys and lamps, per SD-25800-01, are specified in J23252U, A&M Only, or J23252AJ, and are mounted on the jack, key, and lamp panel located on the control bays per J23252U-(), A&M Only, or J23252AJ-(), J23252BW-(), and on the recorder bay J23252BY-().

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

5.05 To enable existing offices in the field to equip for CAMA or ANI without a major modification to the local cable of J23252U-(), IK, IQ, and IS options were rated A&M Only instead of Mfr Disc. List 2 of J23255U is unassigned to make J-specification list information compatible with the J-drawing list information.

5.06 The J23255AF and J23255AG units shall be mounted together in a miscellaneous relay rack frame with J23255AF immediately above J23255AG.

List of A&M Only and Mfr Disc. Equipment

EQUIPMENT	RATING	DETAILS		EQUIPMENT	RATING	DETAILS	
		LAST SHOWN IN ISSUE	REPLACING EQUIPMENT			LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J23255A,L1	Mfr Disc.	3	J23255A,L3	L3 to L6	A&M Only	4	—
L2	A&M Only	3	—	L8	Mfr Disc.	14	J23255BE,L2
L3	Mfr Disc.	12	J23255A,L7	J23255N,L2	A&M Only	4	—
L7	Mfr Disc.	13	J23255A,L3	J23255R,L2	A&M Only	9	—
J23255B,L1	Mfr Disc.	3	J23255B,L13	J23255S,L1	Mfr Disc.	3	J23255S,L4
L2 to L6	A&M Only	4	—	L2 & L3	A&M Only	4	—
L7 to L12	Mfr Disc.	1	J23255B,L6	L4	Mfr Disc.	9	J23255S,L5 & L6
J23255C,L1			J23255C,L6	L7	Mfr Disc.	14	—
& L4	Mfr Disc.	2	& L8	J23255T,L1	Mfr Disc.	3	J23255T,L4
L2,L3,L5,				L2 & L3	A&M Only	4	—
L7 to L10	A&M Only	4	—	L4	Mfr Disc.	5	J23255T,L5
L6	Mfr Disc.	3	J23255C,L11	L7 & L8	Mfr Disc.	8	—
J23255D,L1	Mfr Disc.	3	J23255D,L4	L9	A&M Only	9	—
L2 & L3	A&M Only	4	—	J23255U,L1	A&M Only	7	—
L4	Mfr Disc.	9	J23255D,L6	J23255V,L1	Mfr Disc.	8	J23255V,L3
L5	Mfr Disc.	14	—	L2	Mfr Disc.	8	—
L7	A&M Only	15	—	L3	Mfr Disc.	9	J23255V,L4 & L5
J23255E,L1	Mfr Disc.	3	J23255E,L11	J23255W	A&M Only	7	J23255U
L2				J23255X,L1	A&M Only	8	J23255X,L2
to L7 & L10	A&M Only	4	—	J23255Y,L1	A&M Only	7	—
L8	Mfr Disc.	2	J23255E,L7	J23255AA,L2	Mfr Disc.	14	—
L9	Mfr Disc.	3	J23255E,L6	& L3			
J23255G,L1	Mfr Disc.	3	J23255G,L10	J23255AB	Mfr Disc.	9	J23255AM
L2				J23255AF,L1	Mfr Disc.	14	—
to L4, L6				J23255AG,L1	Mfr Disc.	14	—
L8, & L9	A&M Only	4	—	J23255AH,L1	Mfr Disc.	14	—
J23255H,L1	Mfr Disc.	3	J23255H,L5	J23255AL,L1	Mfr Disc.	12	J23255AL,L9
L2 to L4	A&M Only	4	—	L2	Mfr Disc.	12	J23255AL,L8
L5	Mfr Disc.	9	J23255H,L10	L3	Mfr Disc.	12	J23255AL,L1
L7	A&M Only	10	—	J23255AM,L2	A&M Only	10	—
J23255K,L5	A&M Only	15	—	J23255AP,L3	Mfr Disc.	14	—
J23255L,L1	Mfr Disc.	3	J23255L,L3	J23255BA	Mfr Disc.	12	J23255BD,L5
L2	A&M Only	4	—	J23255BJ	A&M Only	15	—
J23255M,L1	Mfr Disc.	3	J23255M,L7				

The above equipment has been replaced as indicated. Where A&M Only items appear, the issue numbers

shown are those of the issue in which the rating was first applied.

Bell Telephone Laboratories, Incorporated

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