

**OFFICE 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 engineering manufacture and installation of the office test frame.

**1.02** This specification is reissued:

(a) To bring the information into agreement with SD-27633-01, Issues 27D and 28A; SD-27634-01, Issues 20A and 21D.

(b) To arrange the office test frame:

(1) To provide for testing 911 emergency service trunks, J23260A, List 24 and J23260AC, List 3 are added.

(2) To provide the facilities for testing into ACD office from the office test frame, J23260A, List 1 is revised; lists 22, 23, and J23260AJ, List 6 are added.

(3) To supplement ordering information associated with ROTL, ACD, and positive test call control feature, J23260A, List 1 is revised; J23260AJ, Lists 5 and 6 are added to Table A.

(4) To provide test preference and connector functions for testing with the remote office test line register, J23260AT, List 1 is rated Mfr Disc.; J23260BA, Lists 1 and 2 are added.

(c) To incorporate changes made per Addendum Issues 1 and 2.

**CAPACITY**

**1.03** The office test frame is designed to operate on a 2-wire basis with the following equipment.

**Connectors**

|                                  |    |
|----------------------------------|----|
| Incoming register marker conn    | 4  |
| Reg per conn                     | 20 |
| Originating register marker conn | 4  |
| Reg per conn                     | 20 |
| Line line marker conn            | 10 |

|                                                                                    |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Line Links                                                                         | 10 | <b>1.04</b> <i>The office test frame</i> is a double bay sheet metal frame 11-feet 6-inches high by 4-feet 4-1/8 inches wide arranged for 2- by 23-inch mounting plates. It is equipped with various units as shown in Fig. 1. The frame, local cable, miscellaneous frame circuits, fuse panels, frame terminal strips, key, jack, and lamp panels are included in J23260A. All other equipment units to be mounted on the frame are covered by separate J codes and shall be ordered in accordance with Table A. The frame local cable contains interunit wiring, battery and ground supply leads, wiring to control and indicating panels and all optional wiring. |
| Markers                                                                            |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Completing                                                                         | 2  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Dial Tone                                                                          | 2  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| MTF Jack Bay                                                                       | 1  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Number Groups                                                                      | 5  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Originating Line Identifiers Required<br>(When dial tone markers are not provided) | 2  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Pretranslators                                                                     |    | <b>1.05</b> <i>The MTF jack bay</i> , J23252Q, always required with the office test frame, provides the progress, identification, busy alarm, and guard lamps for a visual indication of the operating condition of the office equipment. This bay also provides the service make-busy jacks.                                                                                                                                                                                                                                                                                                                                                                         |
| Regular                                                                            | 2  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| IDDD                                                                               | 2  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| I. R.                                                                              | 2  | <b>DESCRIPTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Recorders                                                                          | 3  | <b>1.06</b> The office test frame is used primarily in No.5 crossbar E, F, and G package offices. The design does not permit growth beyond ten line link frames or the addition of certain features such as centrex; wide area data switching; CAMA; private line switching; 4-wire switching; coin zone dialing; line insulation testing; APTT; automatic monitor or register and sender test set testing. If any of these features are considered for addition the office test frame must be replaced by the master test frame. (See Note 5.06.)                                                                                                                    |
| Registers                                                                          |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Incoming                                                                           | 24 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Originating                                                                        | 24 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Senders                                                                            |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| DP                                                                                 | 10 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| MF                                                                                 | 10 | <b>1.07</b> Tests are made by originating calls from the test frame by the operation of keys and switches and by utilizing the originating test line, or by the use of an incoming trunk. The incoming trunk must be patched by means of patch cords from the trunk to the SP jack at the relay rack bay, and from the SP jack to the ITT jack at the office test frame. Customers line locations may similarly be patched to the test frame via the SP jack arrangement. Calls may be set up using dial pulsing, multifrequency pulsing, or TOUCH-TONE® frequencies and may be terminated within the office or to a distant office.                                  |
| LLP                                                                                | 10 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Translators                                                                        |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Foreign Area                                                                       | 2  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| LAMA or ANI                                                                        | 5  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Transverters                                                                       |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| LAMA or ANI                                                                        | 2  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Trunk Link Frames                                                                  | 5  | <b>1.08</b> A semiautomatic make-busy circuit steers the test call to a particular piece of equipment by momentarily making busy all similar circuits except the desired one. When the desired circuit is seized all others are immediately released.                                                                                                                                                                                                                                                                                                                                                                                                                 |

Facilities for selecting classes of service, trunk testing, displaying call progress, and checking sender output are provided. An amplified monitoring circuit provides audible indications during the test call.

**1.09** Facilities for testing the following features are provided on an optional basis: LAMA, ANI, line link pulsing, TOUCH-TONE calling, PBX allotter busy test, E and M lead supervision in trunks, voltmeter testing, OL1, ROTL, AMA-LVT portable test, range extension for Unigauge cabling, intertoll trunk, coin service improvements (dial-tone-first), automatic intercept service, call waiting, and IDDD TSPS.

## OPERATION OF TROUBLE INDICATOR

**1.10** When a marker, transverter, pretranslator, recorder, or master timer encounters a trouble condition, a start signal will be sent to the indicator through the preference control circuit. If the indicator is idle the connector relays operate and cut through the indicating leads to the associated lamp relays. The lamp relays operate the trouble indicating lamps. The resulting display will be locked in until released. Any attempt to seize the indicator while busy will result in a display lost lamp.

## SUBDIVISIONS OF EQUIPMENT AND DETAILED INDEX

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

| EQUIPMENT<br>CODE | RATING<br>OF UNIT | TITLE                                                                      | EQUIPMENT<br>DRAWING | CIRCUIT<br>DRAWING                                |
|-------------------|-------------------|----------------------------------------------------------------------------|----------------------|---------------------------------------------------|
| J23260A           | AT&TCo<br>Std     | Office Test Fr                                                             | J23260A-( )          | SD-27633-01<br>SD-27634-01                        |
| J23260AA          | AT&TCo<br>Std     | Test Control Unit                                                          | J23260AA-( )         | SD-27633-01,<br>Fig. 5                            |
| J23260AB          | AT&TCo<br>Std     | Register and Sender Select Unit                                            | J23260AB-( )         | SD-27633-01,<br>Fig. 15                           |
| J23260AC          | AT&TCo<br>Std     | PBX Test and Channel Select Unit                                           | J23260AC-( )         | SD-27633-01,<br>Fig. 14                           |
| J23260AD          | AT&TCo<br>Std     | Multifrequency, RCVR, and Control Unit                                     | J23260AD-( )         | SD-27633-01,<br>Fig. 2,17,28                      |
| J23260AE          | AT&TCo<br>Std     | Timing Control and Loop Around Test Unit                                   | J23260AE-( )         | SD-27633-01,<br>Fig. 4,29                         |
| J23260AF          | AT&TCo<br>Std     | Transistor Pulsing & Loop Leak Test Unit                                   | J23260AF-( )         | SD-27633-01,<br>Fig. 10,39                        |
| J23260AG          | AT&TCo<br>Std     | "TOUCH-TONE" Test Unit                                                     | J23260AG-( )         | SD-27633-01,<br>Fig. 8                            |
| J23260AH          | AT&TCo<br>Std     | Voltmeter Test Unit                                                        | J23260AH-( )         | SD-27633-01,<br>Fig. 11,12                        |
| J23260AJ          | AT&TCo<br>Std     | Pulsing Control Unit                                                       | J23260AJ-( )         | SD-27633-01,<br>Fig. 1,19,24,25<br>32,34          |
| J23260AK          | AT&TCo<br>Std     | Intertoll Trunk Test Unit                                                  | J23260AK-( )         | SD-27633-01,<br>Fig. 9                            |
| J23260AL          | AT&TCo<br>Std     | ANI Test Unit                                                              | J23260AL-( )         | SD-27633-01,<br>Fig. 6                            |
| J23260AM          | AT&TCo<br>Std     | AMA Recorder Test Unit                                                     | J23260AM-( )         | SD-27633-01,<br>Fig. 7                            |
| J23260AN          | AT&TCo<br>Std     | Preference and Control Unit for LAMA,<br>ANI, ANI-LAMA, and Pretranslators | J23260AN-( )         | SD-27633-01,<br>Fig. 37<br>SD-27634-01,<br>Fig. 4 |

| EQUIPMENT<br>CODE | RATING<br>OF UNIT | TITLE                                            | EQUIPMENT<br>DRAWING | CIRCUIT<br>DRAWING                                |
|-------------------|-------------------|--------------------------------------------------|----------------------|---------------------------------------------------|
| J23260AP          | A&M<br>Only       | Plant Register Unit                              | J23260AP-( )         | SD-27634-01,<br>Fig. 2                            |
| J23260AR          | AT&TCo<br>Std     | Marker Preference and Control Unit               | J23260AR-( )         | SD-27634-01,<br>Fig. 4                            |
| J23260AS          | AT&TCo<br>Std     | Lamp Control Unit                                | J23260AS-( )         | SD-27634-01,<br>Fig. 5                            |
| J23260AU          | AT&TCo<br>Std     | Range Extension Test Unit                        | J23260AU-( )         | SD-27633-01,<br>Fig. 33                           |
| J23260AV          | AT&TCo<br>Std     | Positive Test Call Control Unit                  | J23260AV-( )         | SD-27633-01,<br>Fig. 36<br>SD-94820-01,<br>Fig. 2 |
| J23260AW          | AT&TCo<br>Std     | Dial-Tone-First Test Unit                        | J23260AW-( )         | SD-27633-01,<br>Fig. 38                           |
| J23260AX          | AT&TCo<br>Std     | Call-Waiting Test Unit                           | J23260AX-( )         | SD-27633-01,<br>Fig. 40                           |
| J23260AY          | AT&TCo<br>Std     | Supplementary Pretranslator Unit                 | J23260AY-( )         | SD-27634-01,<br>Fig. 4                            |
| J23260BA          | AT&TCo<br>Std     | Remote Office Test Line Marker Connector<br>Unit | J23260BA-( )         | SD-27634-01,<br>Fig. 7,8,9                        |

**Circuit Schematic Index**

| CIRCUIT<br>DRAWING | J23260<br>EQPT CODE                                                   |
|--------------------|-----------------------------------------------------------------------|
| SD-27633-01        | A, AA, AB, AC, AD, AE, AF,<br>AG, AH, AK, AL, AM, AN,<br>AU, AV, & AW |
| SD-27634-01        | A, AN, AP, AR, AS, AT, AY, &<br>BA                                    |

**2. SUPPLEMENTARY INFORMATION**

819-000-000—Numerical Index—No. 5 Crossbar  
System—Equipment Design Requirements  
800-610-152—Gauge and Insulation of Wire  
J20155—819-022-150—Conductor Lengths Between  
Frames and Units  
J29259—819-005-150—General Outline—No.5 Crossbar  
System  
J24759D—819-708-150—AMA-LVT Test Set Conn

**Unit**

J99235AW—801-025-166—MF Signal Generator Unit  
SD-25760-02—Circuit Drain Data Sheet  
Floor Plan Data—Section 11.1, Sheet 7

**3. DRAWINGS**

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

**Keysheet**

SD-25760-01—Crossbar System No. 5

**Circuits**

SD-25574-01—Miscellaneous Circuit for all Frames  
SD-27632-01—AMA Translator Line Verification  
Test Set Connector Unit  
SD-27633-01—Office Test Frame Test Circuit  
SD-27634-01—Office Test Frame Trouble Indicator

and Connector  
 SD-95867-01—MF Signal Generator Circuit  
 SD-96410-01—Auxiliary Signal Circuit

**Framework**

ED-26525-01—Sheet Metal Frame—Double Bay  
 ED-92250-01—Pigeonhole and Writing Shelf Assembly  
 ED-92271-01—Jack, Key, and Lamp Panel Assembly

**Cabling**

ED-27624-( )—Switched Cable Detail

**Equipment**

ED-25589-01—Fuse Alarm Lamps and Test Posts  
 ED-26528-01—Frame Appliance Outlets and Connections  
 ED-26567-01—Jack Mounting and Spare Fuse Holder  
 ED-27511-01—Fuse Panel Assemblies

**4. EQUIPMENT**

**J23260A—AT&T Co Std—Office Test Frame (See Table A)**

Equipment—J23260A-( )

**List 1**—Framework, assembly, common equipment, and local cable for one office test frame. (See Notes B, C, and 5.06.)

Misc Ckt,  
 SD-25574-01:

48V Fuse Ckt, Fig. 3,  
 with ZT option  
 48V Frame Fuse Alm.Ckt,  
 Fig. 4

Ground Feeder Ckt,  
 Fig. 10

48V Frame Test Battery  
 Fig. 13

Spare Jack Ckt, Fig. 16  
 Frame Line Telephone

Jack Ckt, Fig. 17  
 Telephone Jack Ckt,  
 Fig. 51

Remote Cont Jk Ckt,  
 Fig. 19

Office Test Frame Test  
 Ckt,

SD-27633-01:

Pulsing Control,  
 Fig. 1 & 32

MF, RCVR, & Cont  
 Fig. 2, 17, & 28

Office Tst Cont Jk,  
 Lp, & Key Ckt, Fig. 3,  
 less ZY and XS options

WIRE EQUIP NOTES

2 2

1 1

1 1

1 1

1 1

1 1

1 1

1 1

1 0

1 0

1 1

|                                                                      | WIRE | EQUIP | NOTES |
|----------------------------------------------------------------------|------|-------|-------|
| Office Test Cont,<br>Fig. 5                                          | 1    | 0     |       |
| Timing Cont & Loop<br>Around Test, Fig. 4                            | 1    | 0     |       |
| TOUCH-TONE Test,<br>Fig. 8 & 20                                      | 1    | 0     | A     |
| Register Sender Select,<br>Fig. 15                                   | 1    | 0     |       |
| AMA Recorder Test<br>Fig. 7 & 30                                     | 1    | 0     | A     |
| Transistor Pulsing &<br>Loop Leak Test,<br>Fig. 10                   | 1    | 0     | A     |
| ANI Test, Fig. 6 & 18                                                | 1    | 0     | A     |
| Control Keys for ANI,<br>LAMA, or Combined ANI-<br>LAMA, Fig. 31     | 1    | 1     |       |
| E&M Supervision Trk Tst,<br>Fig. 9, 21, & 29                         | 1    | 0     | A     |
| PBX Test & Channel Select,<br>Fig. 14                                | 1    | 0     |       |
| Voltmeter Test,<br>Fig. 11 & 12                                      | 1    | 0     | A     |
| Line Link Pulsing Test<br>Fig. 24 & 26                               | 1    | 0     |       |
| Number Group Allotting<br>Test, Fig. 25 & 27                         | 1    | 0     |       |
| Reverting Trk Marginal<br>Trk Tst, Fig. 19                           | 1    | 1     |       |
| Range Extension Test,<br>Fig. 33                                     | 1    | 0     |       |
| TT Dial and Key Ckt,<br>Fig. 44 and 45                               | 1    | 0     |       |
| Call-Waiting Select Ckt,<br>Fig. 40, 41                              | 1    | 0     |       |
| Coin Supervisory Select<br>Ckt, Fig. 42                              | 1    | 1     |       |
| Pos TST Call Cont Ckt,<br>Key and Lp, Fig. 36                        | 1    | 1     |       |
| Office Test Frame Trouble<br>Indicator and Conn Ckt,<br>SD-27634-01: |      |       |       |
| Connector Control, Fig. 6,<br>Less Y Apparatus                       | 1    | 1     | A     |
| Indicating Lamps & Make-<br>Busy Jacks, Fig. 3                       | 1    | 1     |       |
| Marker Preference & Cont,<br>Fig. 4, and A option                    | 1    | 0     |       |
| Lamp Cont, Fig. 5                                                    | 56   | 0     |       |
| AMA Preference & Cont,<br>Fig. 4, Y option                           | 1    | 0     | A     |
| Rotl Marker Conn.,                                                   |      |       |       |

|                                          | WIRE | EQUIP | NOTES |
|------------------------------------------|------|-------|-------|
| Fig. 7 & 8                               | 1    | 0     | A     |
| MF Signal Generator Ckt,<br>SD-95867-01: |      |       |       |
| Fig. 1                                   |      |       |       |
| X option                                 | 1    | 1     |       |
| Aux Signal Ckt,<br>SD-96410-01:          |      |       |       |
| Buzzer, Fig. 5, X option                 | 1    | 1     | 5.04  |
| Keys, Fig. 9 & 14                        | 1    | 1     |       |

**List 4**—Key and lamp equipment per SD-27633-01, Fig. 20 required in addition to list 1 when testing of TOUCH-TONE registers is required.

**List 5**—Key and lamp equipment per SD-27633-01 Fig. 29 required in addition to list 1 when E&M supervision trunk testing is provided.

**List 6**—A&M Only—Equipment per SD-27634-01, Fig. 6, Y and ZA options required in addition to list 1 when office is arranged for LAMA. (See Note 5.07.)

**List 7**—Key and lamp equipment per SD-27633-01, Fig. 26 required in addition to list 1 when line link pulsing test feature is provided.

**List 8**—Key and lamp equipment per SD-27633-01, Fig. 27 required in addition to list 1 when PBX allotter busy test feature is provided.

**List 9**—Key and lamp equipment per SD-27633-01, Fig. 11 required in addition to list 1 when voltmeter testing is required.

**List 10**—Key and lamp equipment per SD-27633-01, Fig. 12 required in addition to list 9 when voltmeter testing is required an office is equipped with MF incoming registers only.

**List 11**—Equipment per SD-27634-01, Fig. 6, Y option only required in addition to list 1 when office is equipped with LAMA, or ANI-LAMA.

**List 12**—Wiring and equipment required in addition to list 1 for control of start pulse frequency combinations on calls to TSPS No. 1 in accordance with SD-27633-01, Fig. 3, ZY option only.

**List 13**—Key and lamp equipment per SD-27633-01, Fig. 21 required in addition to list 1 when intertoll trunk testing is provided.

**List 14**—A&M Only—Key equipment required in addition to list 1 when originating register coin return test feature is provided, per SD-27633-01, Fig. 4, YB option.

**List 15**—Lamp equipment per SD-27633-01, Fig. 30 required in addition to list 1 when LAMA

or combined ANI-LAMA is provided.

**List 16**—Key equipment required in addition to list 1 when range extension for Unigauge cabling testing is provided, per SD-27633-01, Fig. 33.

**List 17**—Wiring and equipment per SD-27633-01, Fig. 38, lamps and keys only, required in addition to list 1 when coin service improvements (dial-tone-first) is provided.

**List 18**—Wiring and equipment per SD-27633-01, Fig. 39, A1S/DL4, LTH keys and LTH LP only, required in addition to list 1 when office is arranged for automatic intercept service.

**List 19**—A&M Only—Wiring and equipment per SD-27633-01, Fig. 39, XK option (keys and switches only), required in addition to list 18 when automatic intercept service is provided in an office not arranged for line link pulsing. (See Note D.)

**List 20**—Keys, lamps, and switches required in addition to list 1 when call-waiting test is provided, per SD-27633-01, Fig. 41.

**List 21**—Wiring and equipment per SD-27633-01, Fig. 3, XS option only required in addition to list 1 when line link pulsing test feature and/or call-waiting feature are required.

**List 22**—Equipment per SD-27633-01, Fig. 45 required in addition to list 1 to provide for TOUCH-TONE dial.

**List 23**—Equipment per SD-27633-01, Fig. 44 (ACND/ACDL key only) required in addition to list 22 when office is arranged for testing into an automatic call distribution (ACD) office.

**List 24**—Wiring and equipment per SD-27633-01, Fig. 43 911/OTTTL key and 911 lamp only required in addition to list 1 to provide for 911 emergency service trunk testing.

#### Notes

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

1. Wiring required as specified in Note 102 of SD-27633-01.
2. Wiring required as specified in Note 102 of SD-27634-01.
3. A&M Only—Wiring per X and ZG required as specified in Note 107 of SD-27634-01.

B. The local cable for the frame shall contain the interunit wiring, battery, and ground supply leads, wiring to the key, lamp, and switch panels, wiring looped at unequipped apparatus positions, and wiring between units and the frame terminal strips for all units listed in Table A, including list 1 of this J code.

C. All units to be mounted on this frame shall be provided as required in accordance with Table A.

D. The resistors and relays of Fig. 39 are provided per SD-23260AF, Lists 2 and 3.

#### **J23260AA—AT&TCo Std—Test Control Unit**

Equipment—J23260AA-( )

**List 1**—Assembly, wiring, and equipment for one test control unit per SD-27633-01, Fig. 5, less WA option.

#### **J23260AB—AT&TCo Std—Register and Sender Select Unit**

Equipment—J23260AB-( )

**List 1**—Assembly, wiring, and equipment for one register and sender select unit per SD-27633-01, Fig. 15.

#### **J23260AC—AT&TCo Std—PBX Test and Channel Select Unit**

Equipment—J23260AC-( )

**List 1**—Assembly, wiring, and equipment for one PBX test and channel select unit per SD-27633-01, Fig. 14.

**List 3**—Wiring and equipment per SD-27633-01, Fig. 43 (911,ASW) relays only required in addition to list 1 when 911 emergency service trunk testing is provided.

#### **J23260AD—AT&TCo Std—Multifrequency, RCVR, and Control Unit**

Equipment—J23260AD-( )

**List 1**—Assembly, wiring, and equipment for one multifrequency, RCVR, and control unit per SD-27633-01, Fig. 2, 17, and 28.

***J23260AE—AT&TCo Std—Timing Control and Loop Around Test Unit***

Equipment—J23260AE-( )

**List 1**—Assembly, wiring, and equipment for one timing control and loop around test unit per SD-27633-01, Fig. 4.**List 2**—Wiring and equipment per SD-27633-01, Fig. 4, R option only required in addition to list 1 when voltmeter test circuit is not provided.**List 3**—Wiring and equipment required in addition to list 1 when E and M supervision trunk testing is provided per SD-27633-01, Fig. 29 less key and lamp.**List 4**—A&M Only—Wiring and equipment required in addition to list 1 when originating register coin return test feature is provided, per SD-27633-01, Fig. 4, YB option, less key.***J23260AF—AT&TCo Std—Transistor Pulsing and Loop Leak Test Unit***

Equipment—J23260AF-( )

**List 1**—Assembly, wiring, and equipment for one transistor pulser and loop leak test unit per SD-27633-01, Fig. 10**List 2**—Wiring and equipment per SD-27633-01, Fig. 39 (LLB and LMB resistors only) required in addition to list 1 when automatic intercept service is provided.**List 3**—A&M Only—Wiring and equipment per SD-27633-01, Fig. 39, XK option (AIS, AIS1, and CKD relays, AIS potentiometer and AMB resistor) only required in addition to list 2 when automatic intercept service is provided in an office not arranged for line link pulsing.***J23260AG—AT&TCo Std—"TOUCH-TONE" Test Unit***

Equipment—J23260AG-( )

**List 1**—Assembly, wiring, and equipment for one TOUCH-TONE test unit per SD-27633-01, Fig. 8 required when office is equipped with TOUCH-TONE registers.***J23260AH—AT&TCo Std—Voltmeter Test Unit***

Equipment—J23260AH-( )

**List 1**—Assembly, wiring and equipment for one voltmeter test unit per SD-27633-01, Fig. 11 when voltmeter testing is required.**List 2**—Wiring and equipment for one voltmeter test unit per SD-27633-01, Fig. 12 required in addition to list 1 when office is arranged for MF incoming registers only, or office with MF incoming register and only bylink DP trunks.***J23260AJ—AT&TCo Std—Pulsing Control Unit***

Equipment—J23260AJ-( )

**List 1**—Assembly, wiring, and equipment for one pulsing control unit per SD-27633-01, Fig. 1, 32 and 5, WA option only.**List 2**—Wiring and apparatus per SD-27633-01, Fig. 24 required in addition to list 1 when the line link pulsing is provided.**List 3**—Wiring and apparatus per SD-27633-01, Fig. 25 required in addition to list 1 when PBX allotter busy test is provided.**List 4**—Wiring and equipment required in addition to list 1 per SD-27633-01, Fig. 19 to provide for reverting trunk marginal trunk test feature.**List 5**—Wiring and equipment required in addition to list 1 when remote office testing is provided per SD-27633-01, Fig. 34.**List 6**—Wiring and equipment per SD-27633-01, Fig. 44 (less key) when office is arranged for testing into an automatic call distribution (ACD) office.***J23260AK—AT&TCo Std—Intertoll Trunk Test Unit***

Equipment—J23260AK-( )

**List 1**—Assembly, wiring, and equipment for one intertoll trunk test unit per SD-27633-01, Fig. 9 required when office is arranged with intertoll trunks.***J23260AL—AT&TCo Std—ANI Test Unit***

Equipment—J23260AL-( )

**List 2**—Assembly, wiring, and equipment for one ANI test unit per SD-27633-01, Fig. 6, less YU option, required when office is arranged for ANI or ANI-LAMA.**List 3**—A&M Only—Wiring and equipment per

SD-27633-01, Fig. 6, YU option only, required when office is arranged of ANI or ANI-LAMA. (See Note A.)

#### Note

- A. Option YU is not required in ANI or ANI-LAMA offices equipped with the Positive Test Call Control Unit, J23260AV.

#### **J23260AM—AT&TCo Std—AMA Recorder Test Unit**

Equipment—J23260AM-( )

- List 1**—Assembly, wiring, and equipment for one AMA recorder test unit per SD-27633-01, Fig. 7 required when office is arranged for LAMA or combined ANI-LAMA.

- List 2**—A&M Only—Wiring and equipment required in addition to list 1 per SD-27633-01, Fig. 7, YC option when office is arranged for LAMA only.

#### **J23260AN—AT&TCo Std—Performance and Control Unit for LAMA, ANI, ANI-LAMA, and Pretranslators**

Equipment—J23260AN-( )

- List 2**—Assembly and common equipment for one preference and control unit of LAMA, ANI, and ANI-LAMA, and/or for pretranslators provided in office.

- List 3**—Equipment and wiring required in addition to list 2 when office is arranged for LAMA or ANI-LAMA in accordance with SD-27634-01, Fig. 4, Y, ZB, and ZD option only.

- List 4**—Equipment and wiring required in addition to list 2 when office is arranged for ANI in accordance with SD-27634-01, Fig. 4, ZB option only.

- List 6**—A&M Only—Wiring and equipment required in addition to list 2 for one AMA preference and control unit per SD-27634-01, Fig. 4, Y, ZA, ZB options when office is arranged for LAMA. (See Note 5.07.)

- List 7**—Wiring and equipment per SD-27633-01, Fig. 37 required in addition to list 2 when office is arranged for LAMA, ANI or ANI-LAMA.

- List 8**—Wiring and equipment per SD-27634-01, Fig. 4, ZH and YM options only required

in addition to list 2 when pretranslators are provided. (See Note A.)

#### Note

- A. Options ZH and YM are only required when pretranslators are provided in an office equipped with a master test frame connector per SD-27718-01.

#### **J23260AP—A&M Only—Plant Register Unit**

Equipment—J23260AP-( )

- List 1**—A&M Only—Assembly, wiring and equipment for one plant register unit per SD-27634-01, Fig. 2. (See Note 5.07.)

#### **J23260AR—AT&TCo Std—Marker Preference and Control Unit**

Equipment—J23260AR-( )

- List 1**—Assembly, wiring, and equipment for one marker preference and control unit per SD-27634-01, Fig. 4.

- List 2**—Equipment and wiring per SD-27634-01, Fig. 4, A option only required in addition to list 1 when office is arranged for OLI.

#### **J23260AS—AT&TCo Std—Lamp Control Unit**

Equipment—J23260AS-( )

- List 1**—Assembly, wiring, and equipment for 480 lamp controls per SD-27634-01, Fig. 5.

#### **J23260AU—AT&TCo Std—Range Extension Test Unit**

Equipment—J23260AU-( )

- List 1**—Assembly, wiring and equipment for one range extension test unit per SD-27633-01, Fig. 33, less key equipment, when range extension for Unigauge cabling testing is required. (See Note B.)

#### Notes

- A. Reserved.
- B. When office is arranged for range extension with voltmeter testing one 306A repeater unit

and one connector per ED-27714-( ) cabled in accordance with SD-27633-01, Fig. 35 and CAD 102 shall also be provided and mounted in ED-27714-( ) tray on miscellaneous relay rack per J23064.

***J23260AV—AT&TCO Std—Positive Test Call Control Unit***

Equipment—J23260AV-( )

**List 1**—Assembly, wiring, and equipment for one positive test call control unit per SD-27633-01, Fig. 36, less key and lamps, and SD-94820-01, Fig. 2.

**List 2**—Wiring and equipment per SD-27633-01, Fig. 36, YY option, required in addition to list 1 when the office is equipped with an originating line identifier.

***J23260AW—AT&TCO Std—Dial-Tone-First Test Unit***

Equipment—J23260AW-( )

**List 1**—Assembly, wiring, and equipment for one coin service improvements (dial-tone-first) test unit per SD-27633-01, Fig. 38, less keys and lamps.

***J23260AX—AT&TCO Std—Call-Waiting Test Unit***

Equipment—J23260AX-( )

**List 1**—Assembly, wiring, and equipment for one call-waiting test unit per SD-27633-01, Fig. 40.

***J23260AY—AT&TCO Std—Supplementary Pretranslator Unit***

Equipment—J23260AY-( )

**List 1**—Assembly, wiring, and equipment for one supplementary pretranslator unit per SD-27634-01, Fig. 4, YL option only to arrange office for IDDD TSPS testing or pretranslators for use with incoming register are provided.

**List 2**—Wiring and equipment per SD-27634-01, Fig. 4, YA option only required in addition to list 1 when office is arranged for IDDD TSPS testing.

**List 3**—Wiring and equipment SD-27634-01, Fig. 4, YF option only required in addition to list 1 when pretranslators for use with incoming register are provided.

***J23260BA—AT&TCO Std—Remote Office Test Line Marker Connector Unit***

Equipment—J23260BA-( )

**List 1**—Assembly, wiring, and equipment for one remote office test line marker connector unit per SD-27634-01, Fig. 7 and 8 required when office is arranged for remote office test line testing.

**List 2**—Wiring and equipment per SD-27634-01, Fig. 9 required in addition to list 1 when office is arranged for remote office test line register testing.

***Notes***

A. Reserved.

B. This is an 8-plate unit to be mounted on a miscellaneous relay rack, preferably near other units of the office test frame.

TABLE A – OFFICE TEST FRAME J23260A

Component Equipment Units Shall Be Equipped As Follows:

| QUANTITY | UNIT     |               | QUANTITY TO BE PROVIDED |                      | DESCRIPTION OF OPTION                                                                                                                        |
|----------|----------|---------------|-------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
|          | J CODE   | LIST NO.      | ALWAYS                  | FOR OPTION INDICATED |                                                                                                                                              |
| 1        | J23260AA | 1             | 1                       |                      |                                                                                                                                              |
| 1        | J23260AB | 1             | 1                       |                      |                                                                                                                                              |
| 1        | J23260AC | 1             | 1                       |                      |                                                                                                                                              |
| 1        |          | 3             |                         | 1                    | When 911 emergency service is provided.                                                                                                      |
| 1        | J23260AD | 1             | 1                       |                      |                                                                                                                                              |
| 1        | J23260AE | 1             | 1                       |                      |                                                                                                                                              |
|          |          | 2             |                         | 1                    | When VM test circuit not required.                                                                                                           |
|          |          | 3             |                         | 1                    | E and M supervision trunk test provided.                                                                                                     |
|          |          | 4<br>A&M Only |                         | 1                    | Originating register coin return is provided.                                                                                                |
| 1        | J23260AF | 1             | 1                       |                      |                                                                                                                                              |
| 1        |          | 2             |                         | 1                    | When AIS is provided.                                                                                                                        |
| 1        |          | 3<br>A&M Only |                         | 1                    | When AIS is added to office not arranged for LLP.                                                                                            |
| 1        | J23260AG | 1             |                         | 1                    | When office is arranged for TOUCH-TONE.                                                                                                      |
| 1        | J23260AH | 1             |                         | 1                    | When voltmeter testing is required.                                                                                                          |
|          |          | 2             |                         | 1                    | When voltmeter testing is required and office is equipped with MF incoming registers only or MF incoming register and only bylink DP trunks. |
| 1        | J23260AJ | 1             | 1                       |                      |                                                                                                                                              |
|          |          | 2             |                         | 1                    | When line link pulsing test is provided.                                                                                                     |
|          |          | 3             |                         | 1                    | When PBX allotter busy test is provided.                                                                                                     |
|          |          | 4             | 1                       |                      | Reverting trunk marginal trunk test feature.                                                                                                 |
| 1        |          | 5             |                         | 1                    | When office is arranged for remote office testing.                                                                                           |
|          |          | 6             |                         | 1                    | When office is arranged for testing into an automatic call distribution office.                                                              |
| 1        | J23260AK | 1             |                         | 1                    | When office is arranged for intertoll trunks.                                                                                                |
| 1        | J23260AL | 2             |                         | 1                    | When office is arranged for ANI or combined ANI-LAMA.                                                                                        |

TABLE A – OFFICE TEST FRAME J23260A (Cont)

Component Equipment Units Shall Be Equipped As Follows:

| QUANTITY | UNIT               |               | QUANTITY TO BE PROVIDED |                      | DESCRIPTION OF OPTION                                                                          |
|----------|--------------------|---------------|-------------------------|----------------------|------------------------------------------------------------------------------------------------|
|          | J CODE             | LIST NO.      | ALWAYS                  | FOR OPTION INDICATED |                                                                                                |
|          | J23260AL<br>(Cont) | 3<br>A&M Only |                         | 1                    |                                                                                                |
| 1        | J23260AM           | 1             |                         | 1                    | When office is arranged for LAMA or combined ANI-LAMA.                                         |
|          |                    | 2<br>A&M Only |                         | 1                    | When office is arranged for LAMA.                                                              |
| 1        | J23260AN           | 2             |                         | 1                    | When office is arranged for IAMA, ANI, ANI-LAMA or pretranslators.                             |
|          |                    | 3             |                         | 1                    | When office is arranged for LAMA or ANI-LAMA.                                                  |
|          |                    | 4             |                         | 1                    | When office is arranged for ANI.                                                               |
|          |                    | 6<br>A&M Only |                         | 1                    | Office arranged for LAMA.<br>(See Note 5.07)                                                   |
|          |                    | 7             |                         | 1                    | When office is arranged for ANI, LAMA, or ANI-LAMA.                                            |
|          |                    | 8             |                         | 1                    | When pretranslators are provided.                                                              |
| 1        | J23260AP           | 1<br>A&M Only |                         | 1                    | Office arranged for plant registers.<br>(See Note 5.07.)                                       |
| 1        | J23260AR           | 1             | 1                       |                      |                                                                                                |
|          |                    | 2             |                         | 1                    | When office is arranged for OLI.                                                               |
| 1        | J23260AS           | 1             | 1                       |                      |                                                                                                |
| 1        | J23260AU           | 1             |                         | 1                    | When range extension for Unigauge cabling testing is required.                                 |
| 1        | J23260AV           | 1             | 1                       |                      |                                                                                                |
|          |                    | 2             |                         | 1                    | When originating line identifier is provided.                                                  |
| 1        | J23260AW           | 1             |                         | 1                    | When coin service improvements (dial-tone-first) is provided.                                  |
| 1        | J23260AX           | 1             |                         | 1                    | When call waiting is provided.                                                                 |
| 1        | J23260AY           | 1             |                         | 1                    | When IDDD TSPS is provided or when pretranslators for use with incoming register are provided. |
|          |                    | 2             |                         | 1                    | When IDDD TSPS testing is required.                                                            |
|          |                    | 3             |                         | 1                    | When pretranslators for use with incoming register are provided.                               |

TABLE A – OFFICE TEST FRAME J23260A (Cont)

Component Equipment Units Shall Be Equipped As Follows:

| QUANTITY | UNIT     |          | QUANTITY TO BE PROVIDED |                      | DESCRIPTION OF OPTION                                        |
|----------|----------|----------|-------------------------|----------------------|--------------------------------------------------------------|
|          | J CODE   | LIST NO. | ALWAYS                  | FOR OPTION INDICATED |                                                              |
| 1        | J23260BA | 1        |                         | 1                    | When office is arranged for ROTL.                            |
|          |          | 2        |                         | 1                    | When office is arranged for ROTL register.                   |
| 1        | J24759D  | 1        |                         | 1                    | When the AMA-LVT portable test unit J24759C-( ) is required. |
| 1        | J99235AW | 1&4      | 1                       |                      |                                                              |

**5. GENERAL NOTES****Wiring**

**5.01** All J-coded relay units covered by this specification shall be surface-wired and interconnected by the frame local cable.

**Cabling**

**5.02** The codes of the switchboard cables and loose wires ordinarily used in cabling to this frame are shown on ED-26548-10.

**Equipment**

**5.03** All designation strips for the key, jack, and lamp panels shall be furnished completely designated.

**5.04** Relay equipment associated with the auxiliary signal circuit in accordance with SD-96410-01, Note 102 is mounted on a miscellaneous relay rack.

**5.05** When an office is equipped with bylink incoming trunks only, provide one direct pulsing trunk per SD-26070-01 for incoming register testing.

**5.06** When replacement of the office test frame with the master test frame is anticipated, arrangements should be made to reserve the required space in the maintenance lineup to add the MTF trouble recorder, MTF control, and the MTF jack bays. If the OTF and its associated jack bay are located in the lineup reserved for the MTF then switchboard cables to the OTF and jack bay should have sufficient slack to allow movement of these frames into the aisle, allowing for the addition of the MTF trouble recorder control and jack bays.

**5.07** This equipment is required for LAMA or ANI when the OTF per H595-950 is replaced with OTF per J23260A and is to function with the MTFC per SD-25805-01.

**5.08** Codes J23260B through J23260Y are unassigned.

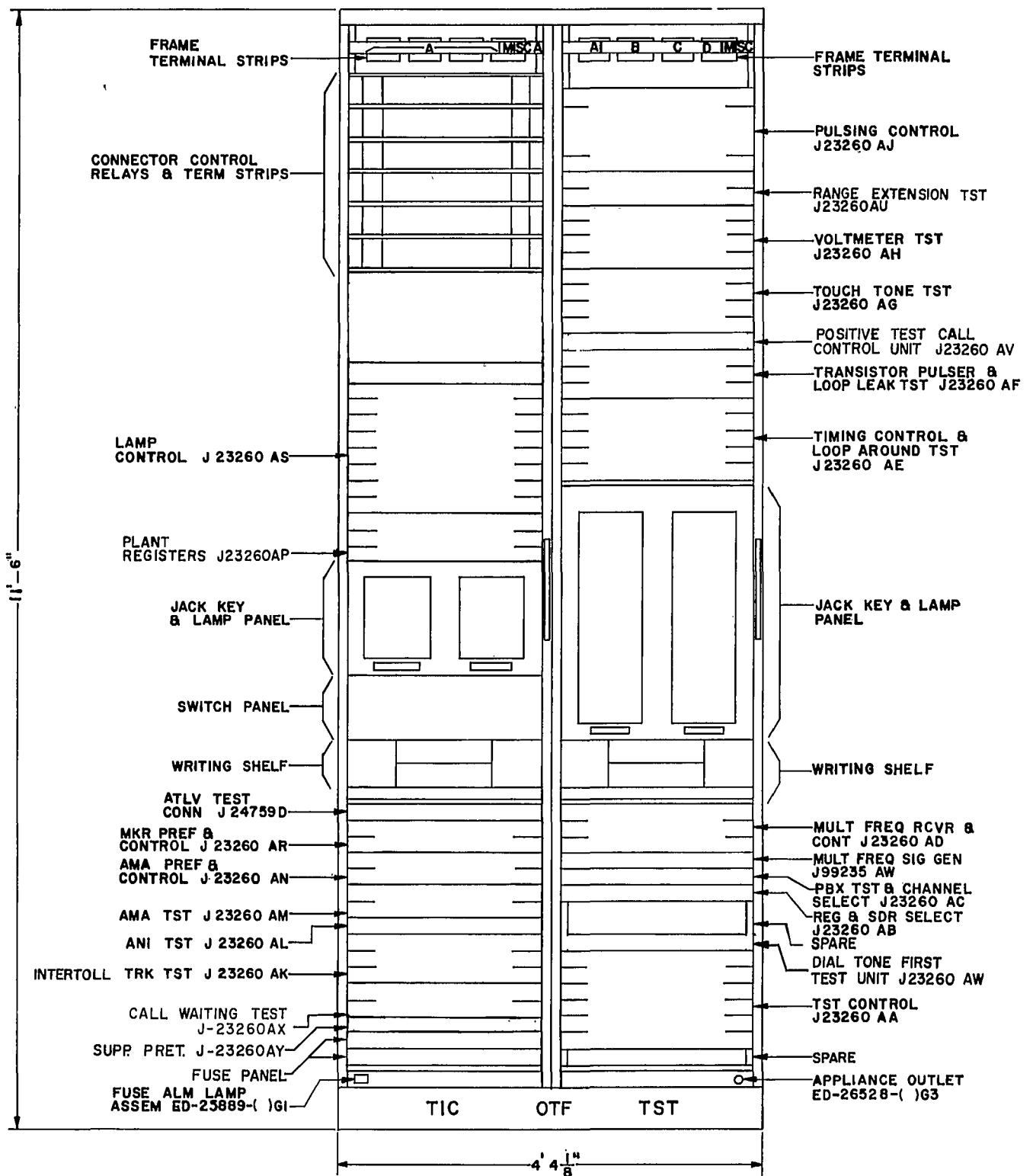


Fig. 1

## List of A&amp;M Only and Mfr Disc. Equipment

| EQUIPMENT    | RATING    | DETAILS<br>LAST<br>SHOWN<br>IN ISSUE | REPLACING<br>EQUIPMENT | EQUIPMENT    | RATING    | DETAILS<br>LAST<br>SHOWN<br>IN ISSUE | REPLACING<br>EQUIPMENT |
|--------------|-----------|--------------------------------------|------------------------|--------------|-----------|--------------------------------------|------------------------|
| J23260A,L2,  | Mfr Disc. | 2                                    | J23260A,<br>L1&L15     | L3           | A&M Only  | 4                                    | —                      |
| L3,          | Mfr Disc. | 2                                    | J23260A,<br>L1         | J23260AM,L2  | A&M Only  | 4                                    | J23260AN,<br>L7        |
| L6,          | A&M Only  | 3                                    | J23260A,<br>L11        | J23260AN,L1, | Mfr Disc. | 2                                    | J23260AN,<br>L2&L3     |
| L14,         | A&M Only  | 4                                    | —                      | L5,          | Mfr Disc. | 4                                    | J23260AN,<br>L8        |
| J23260A,L19, | A&M Only  | 5                                    | —                      | L6           | A&M Only  | 3                                    | —                      |
| J23260AC,L2  | Mfr Disc. | 6                                    | —                      | J23260AP,L1  | A&M Only  | 3                                    | J23261A                |
| J23260AE,L4  | A&M Only  | 4                                    | J23260AV,<br>L1        | J23260AT,L1  | Mfr Disc. | 6                                    | J23260BA,<br>L1        |
| J23260AF,L3  | A&M Only  | 6                                    | —                      |              |           |                                      |                        |
| J23260AL,L1, | Mfr Disc. | 4                                    | J23260AL,<br>L2        |              |           |                                      |                        |

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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