

**INTERCEPTING TRUNKS
FOR MANUAL INTERCEPTING
AND NO. 7A ANNOUNCEMENT SYSTEM
EQUIPMENT DESIGN REQUIREMENTS
STEP-BY-STEP SYSTEMS**

1. GENERAL

SCOPE

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the manufacture and installation of intercepting trunk relay units for manual intercept service in step-by-step offices and intercepting trunks and common equipment for the machine intercept system known as the No. 7A announcement system for machine intercept service in small dial offices.

1.02 This specification is reissued:

- (a) To add 1.09 to the subpart heading DESCRIPTION.
- (b) To add list 9 and Note K to J33016AE in accordance with SD-35011-01, Issue 2.
- (c) To revise list 1 and add list 6 to J33016AP, in accordance with SD-32532-01, Issue 8.
- (d) To add codes J33016AR, J33016AS, J33016AT, J33016AU, J33016AW, J33016AY, J33016BA, and J33016BB.
- (e) To change 5. GENERAL NOTES to reflect that J33016AD, List 10, instead of J33016AD, List 12 is A&M Only.

DESCRIPTION

1.03 It is intended eventually to include in this specification all intercepting trunk relay units,

arranged on 2-inch wide mounting plates, that are used in step-by-step systems.

1.04 These relay units consist of one or more mounting plates, 2 inches wide by 23 inches long, on which the apparatus for one or more circuits is mounted and surface wired to one or more unit terminal strips. The terminal strips facilitate shop testing of the circuit, provide a place for strapping to obtain circuit options, and serve as a convenient place for the installer to make the necessary external connections. These 2-inch units may be mounted on relay racks drilled for 1-3/4 inch mounting plates by using adapters per ED-92243- () as illustrated on ED-92242-01.

1.05 Unless otherwise indicated, all units covered by this specification are surface wired.

1.06 The intercepting trunk relay rack units covered in this specification are part of the facilities for handling intercepting traffic in step-by-step offices. Also, see J32008 for No. 1, 350A, or 355A office.

1.07 The No. 7A announcement system consists of the following equipment: trunk units per J33016AD and J33016AE and KS-16765 announcement set and KS-16754 amplifier per H-400-107. This equipment provides for transmitting an announcement of not more than 2-minute duration to a calling subscriber reaching one of the intercepting trunks from connector terminals, selector levels, or through jacks of 200-point connectors. H-400-107 is a shop assembled and wired relay rack unit arranged for connections from the intercepting trunks and occupies a space of five 2- by 23-inch mounting plates. This equipment, per H-400-107, replaces

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

the previous arrangement shown on ED-95034-(). For additional information regarding this system, see Sections 951-116-100 and 814-011-170.

1.08 When an automatic intercept system (AIS) is required in offices arranged with ANI-C or D and local announcement to vacant selector level traffic is required, intercept trunks per J33016B or F must be replaced with AIS intercept trunk J33016AT, AU, AW, or AY.

1.09 See J32008 and J33029 when an AIS is required in offices equipped with ANI-C or D.

2. SUPPLEMENTARY INFORMATION

814-000-000—Step-by-Step Systems Index
 800-600-000—List of General Equipment Requirements
 814-011-170—Announcement System for Machine Intercept Service
 951-116-100—Machine Intercept — Announcement Systems
 J23058—819-609-150—Service Trunks and Miscellaneous Relay Rack Equipment Units
 J32008—814-415-151—Intercepting Trunks and Trunk Finder Equipment, No. 1, 350A, and 355A Offices
 J33029—814-526-150—Intercept Trunk Frame to AIS—For ANI Type C or D
 J38801—814-007-150—360A Dial Office
 J38805—814-005-151—No. 355A Office
 J38809—814-006-150—356A Office
 J39206—814-005-150—No. 1 and 350A Offices, General
 J39210—814-008-150—No. 35E97 Dial Office
 KS-16754—Amplifier
 KS-16765—Announcement Set
 Current Drain Data—
 SD-31250-01—No. 360A Office
 SD-31359-02—No. 1 Office
 SD-31364-02—No. 350A Office
 SD-31780-02—No. 355A Office
 SD-32149-02—No. 356A Office
 SD-32325-02—No. 35E97 Office

3. DRAWINGS

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

Keysheets

SD-31250-01—No. 360A Dial Office—Keysheet

SD-31359-01—No. 1 Office—Keysheet
 SD-31364-01—No. 350A Office—Keysheet
 SD-31780-01—No. 355A Office—Keysheet
 SD-32149-01—No. 356A Office—Keysheet
 SD-32325-01—No. 35E97 Office—Keysheet
 SD-90250-01—Master Keysheet—All Systems

Equipment

ED-31041-01—Step-by-Step Systems—No. 1, 350A, or 355A Outgoing Trunk Equipment—For Intercepting Service With or Without Flashing and Toll Identification Tone (2- by 23-Inch Mounting Plates, Surface Wired)
 ED-31965-01—Step-by-Step Systems—No. 1, 350A, or 355A Outgoing Intercepting Trunk Equipment—For Intercepting Service With or Without Flashing Toll Identification Tone and Completion of Intercepted Calls (J32003BB)
 ED-66077-50—PBX Systems—Message Waiting Service — Message Register Service — Framework Assemblies Having Unfinished Exterior Surfaces
 ED-91837-01—Relay Rack Assembly—Angle Type—1-Foot 0-Inch Sheet-Metal Base—7 Feet 0 Inch, 9 Feet 0 Inch, and 11 Feet 6 Inches High
 ED-92242-01—Application of 2-Inch Mounting Plates or Units to 1-3/4 Inch Racks or 1-3/4 Inch Plates or Units to 2-Inch Racks—Typical
 ED-92243-01—Common Systems—Relay Rack Unit Framework Assembly
 ED-95034-()—Common Systems — Signaling — Auxiliary Pulse Link Equipment — Arranged to Pass Signals From One CX Signaling Circuit to Another at an Intermediate Point When Patching Jacks Are Not Provided in the E and M Leads of Signaling Circuits

4. EQUIPMENT

J33016A—AT&T Co Std—Three- or 4-Wire Intercepting Trunk for Use With Trunk Finders and No. 3-, 4-, and 6-Type Information Desks—Arranged for Trip Ringing in the Trunk

List 1—Framework, assembly, wiring, and equipment for one intercepting trunk per SD-30817-01, Fig. 1 and 2, with K, N, Q, S, and U apparatus, less plug T1. (No. of Mtg Plts

2—No. of Ckts 1)

List 2—Wiring and equipment per SD-30817-01, Fig. 1, W apparatus only, required in addition to list 1 when unit is associated with 100- or 22-point trunk finders and connection to make-busy circuit is required.

List 3—Wiring and equipment per SD-30817-01, Fig. 1, V apparatus only, required in addition to list 1 when associated with 200-point trunk finder and connection to make-busy circuit is required.

Notes

A. Wiring per SD-30817-01, Fig. 1, Y wiring only, is required in addition to list 1 for trouble calls intercepted at information desk.

B. Wiring per SD-30817-01, Fig. 1, X wiring only, is required in addition to list 1 for trouble calls intercepted at a DSA switchboard and regular calls at the information desk.

J33016B—AT&TCo Std—Intercepting Trunk From Toll Selector Multiple, Except AB Toll Preceding Selectors

List 1—Framework, assembly, wiring, and equipment for one intercepting trunk per SD-32163-01, Fig. 1, with S wiring. (See Note A.) (No. of Mtg Plts 1—No. of Ckts 1)

List 2—Wiring and equipment per SD-32163-01, Fig. D, required in addition to list 1 when trunk is used with trunk finders.

List 3—Wiring and equipment per SD-32163-01, Fig. A, with V wiring, required in addition to list 1 when calls are routed over an intercept-type trunk in No. 1, 350A, or 355A office to operator or announcement machine. (See Note B.)

List 4—Wiring and equipment per SD-32163-01, Fig. C, required in addition to list 1 when calls are routed to operator-over-operator offices or O-type trunks in No. 1, 350A, or 355A offices.

List 6—Equipment per SD-32163-01, Fig. 1, Y apparatus only, required in addition to list 1 when ringing supply is from a vibrating reed-type ringing converter in a No. 35E97 office.

List 7—Equipment per SD-32163-01, Fig. 1, Z apparatus only, required in addition to list 1 when ringing supply is from other than a vibrating reed-type ringing converter.

List 8—Wiring and equipment per SD-32163-01, Fig. F, required in addition to list 1 when calls are routed to operator-over-operator offices or O-type trunks equipped with Automatic Electric Company (AECO) selectors in No. 35E97 offices.

Notes

A. Wiring per SD-32163-01, Fig. 3, is required in addition to list 1 when trunks are used without trunk finders.

B. Wiring and equipment per SD-32163-01, Fig. A, with T wiring (omit V wiring), are required in addition to list 3 when calls from WE selectors in No. 35E97 offices are routed to an operator-over-operator office trunk or level O-type trunks or when calls are routed over an intercept-type trunk.

C. R apparatus and wiring for No. 35E97 offices shall be mounted by the installer when required. (Omit S wiring.)

D. Wiring and equipment per SD-32163-01, Fig. A, with T and M wiring and apparatus (omit V wiring), are required in addition to list 3 when calls from AECO selectors in No. 35E97 offices are routed over intercept-type trunks.

J33016C—AT&TCo Std—Outgoing Intercepting Trunk With or Without Flashing and Toll Identification Tone

List 2—Wiring and equipment per SD-31965-01, Fig. 1, R wiring only, and Fig. 6, less Q wiring, required in addition to list 1, 11, 12, or 13 when connection to a make-busy circuit is required (not required when list 4 is used).

List 3—Wiring and equipment per SD-31965-01, Fig. 1, R wiring only, Fig. 4, with E option and W wiring, and Fig. 6, with Q wiring, required in addition to list 1, 11, 12, or 13 when separate answering jacks are required at the switchboard for trouble intercept.

List 4—Wiring and equipment per SD-31965-01, Fig. 1, R and X wiring only, Fig. 4, with option E but less W wiring, and Fig. 6, with Q wiring, required in addition to list 1, 11, 12, or 13 when used for trouble intercept only or for both trouble and

regular intercept with common answering jacks at the switchboard.

List 12—Framework, assembly, wiring, and equipment for one outgoing intercepting trunk per SD-31965-01, Fig. 1, 5, and A, with ZI and ZL apparatus and Z wiring, when ringing supply is from other than vibrating reed-type ringing converter. (See Notes A, B, and C.) (No. of Mtg Plts 2—No. of Ckts 1)

List 13—A&M Only—Framework, assembly, wiring, and equipment for one outgoing intercepting trunk per SD-31965-01, Fig. 1, 5, and A, with ZH and ZL apparatus and Z wiring, when ringing supply is from vibrating reed-type ringing converter in No. 35E97 offices. (See Notes A, B, and C.) (No. of Mtg Plts 2—No. of Ckts 1)

Notes

- A. The installer will connect the unit per option M for the No. 355A and 35E97 offices or per option N for all others.
- B. Furnish options V and X for trunks used for regular intercept only.
- C. When offices are arranged for an external circuit subscriber loop of less than 1400 ohms, the ZM strap located between 7T of relay TK and the No. 210A terminal mounted on the rear of relay RT shall be added.

J33016E—AT&TCo Std—Auxiliary Trunk Unit—Digit Absorbing for Use Between Toll Selector Multiple and Intercepting Trunk or Between Local Selector Multiple and Operator Office Trunk—For Delaying Cut-Through

List 2—Assembly, wiring, and equipment for one auxiliary trunk per SD-32084-01, Fig. 1, with Y apparatus. (See Note A.) (No. of Mtg Plts 1—No. of Ckts 1)

Note

- A. The unit is furnished with straps at the bank of the No. 204C selector switch. These straps shall be cut as required at the time of installation.

J33016F—AT&TCo Std—Intercepting Trunk Unit for Trunks From Local Selector Multiple

List 1—Assembly, wiring, and equipment for one intercepting trunk per SD-31767-01, Fig. 3, with W and S wiring. (See Note A.) (No. of Mtg Plts 1—No. of Ckts 1)

List 2—Wiring and equipment per SD-31767-01, Fig. 2 and 3, T wiring only, less W wiring, required in addition to list 1 for use with trunk finders.

List 3—Equipment per SD-31767-01, Fig. 1, X apparatus only, required in addition to list 1 when vibrating reed-type converter is used.

List 4—Equipment per SD-31767-01, Fig. 1, V apparatus only, required in addition to list 1 when other than vibrating reed-type ringing converter is used.

List 5—Wiring and equipment per SD-31767-01, Fig. A, required in addition to list 1 when calls are routed to an operator over an intercepting trunk circuit in No. 1, 350A, or 355A offices.

List 6—A&M Only—Wiring and equipment per SD-31767-01, Fig. C, required in addition to list 1 when calls are routed to operator-over-operator office or O operator-type trunk circuit in No. 35E97 offices.

List 7—A&M Only—Wiring and equipment per SD-31767-01, Fig. D, required in addition to list 1 when calls are routed to operator-over-intercept trunk in No. 35E97 offices.

List 8—A&M Only—Wiring and equipment per SD-31767-01, Fig. 3, R wiring and apparatus only, less S wiring, required in addition to list 1 for use with grounded ringing supply in No. 35E97 offices.

Note

- A. When calls are routed to the operator-type trunk circuit in a No. 1, 350A, 355A, or 360A office, SD-31767-01, Fig. B, shall be provided.

2—No. of Ckts 1)

List 2—Wiring and equipment per SD-30817-01, Fig. 1, W apparatus only, required in addition to list 1 when unit is associated with 100- or 22-point trunk finders and connection to make-busy circuit is required.

List 3—Wiring and equipment per SD-30817-01, Fig. 1, V apparatus only, required in addition to list 1 when associated with 200-point trunk finder and connection to make-busy circuit is required.

Notes

- A. Wiring per SD-30817-01, Fig. 1, Y wiring only, is required in addition to list 1 for trouble calls intercepted at information desk.
- B. Wiring per SD-30817-01, Fig. 1, X wiring only, is required in addition to list 1 for trouble calls intercepted at a DSA switchboard and regular calls at the information desk.

J33016B—AT&TCo Std—Intercepting Trunk From Toll Selector Multiple, Except AB Toll Preceding Selectors

List 1—Framework, assembly, wiring, and equipment for one intercepting trunk per SD-32163-01, Fig. 1, with S wiring. (See Note A.) (No. of Mtg Plts 1—No. of Ckts 1)

List 2—Wiring and equipment per SD-32163-01, Fig. D, required in addition to list 1 when trunk is used with trunk finders.

List 3—Wiring and equipment per SD-32163-01, Fig. A, with V wiring, required in addition to list 1 when calls are routed over an intercept-type trunk in No. 1, 350A, or 355A office to operator or announcement machine. (See Note B.)

List 4—Wiring and equipment per SD-32163-01, Fig. C, required in addition to list 1 when calls are routed to operator-over-operator offices or O-type trunks in No. 1, 350A, or 355A offices.

List 6—Equipment per SD-32163-01, Fig. 1, Y apparatus only, required in addition to list 1 when ringing supply is from a vibrating reed-type ringing converter in a No. 35E97 office.

List 7—Equipment per SD-32163-01, Fig. 1, Z apparatus only, required in addition to list 1 when ringing supply is from other than a vibrating reed-type ringing converter.

List 8—Wiring and equipment per SD-32163-01, Fig. F, required in addition to list 1 when calls are routed to operator-over-operator offices or O-type trunks equipped with Automatic Electric Company (AEC) selectors in No. 35E97 offices.

Notes

- A. Wiring per SD-32163-01, Fig. 3, is required in addition to list 1 when trunks are used without trunk finders.
- B. Wiring and equipment per SD-32163-01, Fig. A, with T wiring (omit V wiring), are required in addition to list 3 when calls from WE selectors in No. 35E97 offices are routed to an operator-over-operator office trunk or level O-type trunks or when calls are routed over an intercept-type trunk.
- C. R apparatus and wiring for No. 35E97 offices shall be mounted by the installer when required. (Omit S wiring.)
- D. Wiring and equipment per SD-32163-01, Fig. A, with T and M wiring and apparatus (omit V wiring), are required in addition to list 3 when calls from AEC selectors in No. 35E97 offices are routed over intercept-type trunks.

J33016C—AT&TCo Std—Outgoing Intercepting Trunk With or Without Flashing and Toll Identification Tone

List 2—Wiring and equipment per SD-31965-01, Fig. 1, R wiring only, and Fig. 6, less Q wiring, required in addition to list 1, 11, 12, or 13 when connection to a make-busy circuit is required (not required when list 4 is used).

List 3—Wiring and equipment per SD-31965-01, Fig. 1, R wiring only, Fig. 4, with E option and W wiring, and Fig. 6, with Q wiring, required in addition to list 1, 11, 12, or 13 when separate answering jacks are required at the switchboard for trouble intercept.

List 4—Wiring and equipment per SD-31965-01, Fig. 1, R and X wiring only, Fig. 4, with option E but less W wiring, and Fig. 6, with Q wiring, required in addition to list 1, 11, 12, or 13 when used for trouble intercept only or for both trouble and

regular intercept with common answering jacks at the switchboard.

List 12—Framework, assembly, wiring, and equipment for one outgoing intercepting trunk per SD-31965-01, Fig. 1, 5, and A, with ZI and ZL apparatus and Z wiring, when ringing supply is from other than vibrating reed-type ringing converter. (See Notes A, B, and C.) (No. of Mtg Plts 2—No. of Ckts 1)

List 13—A&M Only—Framework, assembly, wiring, and equipment for one outgoing intercepting trunk per SD-31965-01, Fig. 1, 5, and A, with ZH and ZL apparatus and Z wiring, when ringing supply is from vibrating reed-type ringing converter in No. 35E97 offices. (See Notes A, B, and C.) (No. of Mtg Plts 2—No. of Ckts 1)

Notes

- A. The installer will connect the unit per option M for the No. 355A and 35E97 offices or per option N for all others.
- B. Furnish options V and X for trunks used for regular intercept only.
- C. When offices are arranged for an external circuit subscriber loop of less than 1400 ohms, the ZM strap located between 7T of relay TK and the No. 210A terminal mounted on the rear of relay RT shall be added.

J33016E—AT&TCo Std—Auxiliary Trunk Unit—Digit Absorbing for Use Between Toll Selector Multiple and Intercepting Trunk or Between Local Selector Multiple and Operator Office Trunk—For Delaying Cut-Through

List 2—Assembly, wiring, and equipment for one auxiliary trunk per SD-32084-01, Fig. 1, with Y apparatus. (See Note A.) (No. of Mtg Plts 1—No. of Ckts 1)

Note

- A. The unit is furnished with straps at the bank of the No. 204C selector switch. These straps shall be cut as required at the time of installation.

J33016F—AT&TCo Std—Intercepting Trunk Unit for Trunks From Local Selector Multiple

List 1—Assembly, wiring, and equipment for one intercepting trunk per SD-31767-01, Fig. 3, with W and S wiring. (See Note A.) (No. of Mtg Plts 1—No. of Ckts 1)

List 2—Wiring and equipment per SD-31767-01, Fig. 2 and 3, T wiring only, less W wiring, required in addition to list 1 for use with trunk finders.

List 3—Equipment per SD-31767-01, Fig. 1, X apparatus only, required in addition to list 1 when vibrating reed-type converter is used.

List 4—Equipment per SD-31767-01, Fig. 1, V apparatus only, required in addition to list 1 when other than vibrating reed-type ringing converter is used.

List 5—Wiring and equipment per SD-31767-01, Fig. A, required in addition to list 1 when calls are routed to an operator over an intercepting trunk circuit in No. 1, 350A, or 355A offices.

List 6—A&M Only—Wiring and equipment per SD-31767-01, Fig. C, required in addition to list 1 when calls are routed to operator-over-operator office or O operator-type trunk circuit in No. 35E97 offices.

List 7—A&M Only—Wiring and equipment per SD-31767-01, Fig. D, required in addition to list 1 when calls are routed to operator-over-intercept trunk in No. 35E97 offices.

List 8—A&M Only—Wiring and equipment per SD-31767-01, Fig. 3, R wiring and apparatus only, less S wiring, required in addition to list 1 for use with grounded ringing supply in No. 35E97 offices.

Note

- A. When calls are routed to the operator-type trunk circuit in a No. 1, 350A, 355A, or 360A office, SD-31767-01, Fig. B, shall be provided.

J33016G—A&M Only—Intercepting Trunk Unit for Trunks From Connector Terminals for Code Ringing and Semiselective Party Lines and Full Selective Lines on Which Operators May Rering—For Offices With Interrupter Ground Supply to Connectors

List 1—Framework, assembly, wiring, and equipment for one intercepting trunk per SD-31995-01, Fig. 1. (See Notes A and B.) (No. of Mtg Plts 2—No. of Ckts 1)

List 2—Equipment per SD-31995-01, Fig. 1, U apparatus only, required in addition to list 1 for use in No. 35E97 offices.

List 3—Equipment per SD-31995-01, Fig. 1, S apparatus only, required in addition to list 1 for use in No. 1, 350A, 355A, or 360A offices.

List 4—Wiring and equipment per SD-31995-01, Fig. A, with M wiring, for one start relay circuit required in addition to list 1 for use with trunk finders.

List 6—Wiring and equipment per SD-31995-01, Fig. D, less X wiring and Z and Y apparatus, required in addition to list 1 for connectors with trip relay in ground return path and ringing interrupter relays operated from ground interruptions. (See Note C.)

List 7—Wiring and equipment per SD-31995-01, Fig. E, less X wiring and Z and Y apparatus, required in addition to list 1 for connectors with trip relay in ringing supply and ringing interrupter relays operated from ground interruptions. (See Note C.)

List 8—Wiring and equipment per SD-31995-01, Fig. F, less X wiring and Z and Y apparatus, required in addition to list 1 for connectors with trip relay in ringing supply and ringing interrupter relays operated from ground interruptions using positive and negative superimposed ringing. (See Note C.)

List 9—Equipment per SD-31995-01, Fig. D, E, or F, Z apparatus only, required in addition to list 6, 7, or 8 for No. 1, 350A, 360A, or No. 35E97 offices.

List 10—Equipment per SD-31995-01, Fig. D, E, or F, with Y apparatus only, required in addition to list 6, 7, or 8 for No. 355A offices using superimposed or ac-dc ringing.

List 11—Wiring and equipment per SD-31995-01, Fig. J, required in addition to list 1 for precode stations on 20-code lines.

List 12—Wiring and equipment per SD-31995-01, Fig. N, required in addition to list 1 for use without trunk finders.

Notes

A. Wiring per SD-31995-01, Fig. H, shall be specified in addition to list 1 for nonprecode stations on 20-code lines.

B. Wiring per SD-31995-01, Fig. G, shall be specified in addition to list 1 for stations on other than 20-code lines.

C. Wiring per SD-31995-01, Fig. D, E, or F with X wiring, shall be specified in addition to list 6, 7, or 8 for ac-dc ringing in No. 355A offices.

J33016H—AT&TCo Std—Test Trunk Unit for Use With Intercepting Trunk Circuits Requiring Machine Ringing

List 1—Assembly, wiring, and equipment per SD-32090-01, Fig. 1 for one test trunk. (No. of Mtg Plts 1—No. of Ckts 1)

J33016J—A&M Only—Intercepting Trunk Unit for Trunks From Connector Terminals for Code Ringing and Semiselective Lines on Which Operators May Rering—For Offices With Code Ringing Supply to Connectors

List 1—Framework, assembly, wiring, and equipment for one intercepting trunk per SD-31995-01, Fig. 1, C, and G. (No. of Mtg Plts 1—No. of Ckts 1)

List 2—Equipment per SD-31995-01, Fig. 1, U apparatus only, required in addition to list 1 for use in No. 35E97 offices.

List 3—Equipment per SD-31995-01, Fig. 1, S apparatus only, required in addition to list 1 for use in No. 1, 350A, 355A, or 360A offices.

List 4—Wiring and equipment per SD-31995-01, Fig. A, with M wiring, for one start relay circuit required in addition to list 1 for use with trunk finders.

List 6—Wiring and equipment per SD-31995-01, Fig. N, required in addition to list 1 for use without trunk finders.

J33016K—AT&T Co Std—Intercepting Trunk Unit for Trunks From Trunk Finder or Connector Bank Multiple or Intercepting Trunk-to-Trunk to Operator Office Arranged To Trip Ringing Only During Ringing Interval—Without Trunk Switch

List 3—Wiring and equipment per SD-31771-01, Fig. A, with J wiring, required in addition to list 1, 6, or 8 for use where no calls use positive superimposed ringing when the trunk is connected directly to the multiple of terminal-per-line connectors for intercepting all calls and where the tripping relay is in series with the ringing supply

List 4—Wiring and equipment per SD-31771-01, Fig. A, with N apparatus, required in addition to list 1, 6, or 8 for use where any calls use positive superimposed ringing when the trunk is connected directly to the multiple of terminal-per-line connectors for intercepting all calls and where the tripping relay is in series with the ringing supply.

List 5—Wiring and equipment per SD-31771-01, Fig. B, required in addition to list 1, 6, or 8 for use when the trunk is connected directly to the multiple of terminal-per-line connectors for intercepting all calls and the tripping relay is in series with ground.

List 7—Wiring and equipment per SD-31771-01, Fig. 1, U apparatus and Z wiring only, required in addition to list 1, 6, or 8 when intercepted local selector levels are multiplied to the same trunk circuits and when trunks are not connected to the trunk finder circuit. (See Note B.)

List 8—Framework, assembly, wiring, and equipment for one intercepting trunk for use where intercepted traffic is routed to trunk circuits used for intercepting service only per SD-31771-01, Fig. 1, with H and ZB apparatus. (See Notes A, C, D, E, F, and G.) (No. of Mtg Plts 1—No. of Ckts 1)

Notes

A. When the trunk is connected directly to connector terminals not equipped with a line circuit, the installer shall connect S wiring on the unit terminal strip.

B. When the trunk is connected to a trunk finder, the installer shall connect X wiring on the unit terminal strip.

C. When intercepting calls to the tip stations only, T wiring shall be connected by the installer on the unit terminal strip.

D. When intercepting calls to ring stations only, R wiring shall be connected by the installer on the unit terminal strip.

E. When neither T nor R wiring is required, the installer shall connect B wiring on the unit terminal strip.

F. When intercepted local selector levels are not multiplied to the same trunk and list 7 is not required, the installer shall connect M wiring on the unit terminal strip.

G. When offices are arranged for an external circuit subscriber loop of less than 1400 ohms, the ZC strap located between terminal 2 of the B tube and the T capacitor shall be added.

H. When automatic disconnect of the connector on calling party holds is required per SD-31771-01, Fig. 6, equipment unit J33016AN is required.

J33016L—AT&T Co Std—Intercepting Trunk Unit for Trunks From Connector or Toll Train Selector Multiple or From Auxiliary Intercepting Trunk for 8-Party Terminal-per-Line Connector Multiple

List 7—Assembly, wiring, and equipment for seven intercept trunks per SD-31337-01, Fig. 1, with option W. (See Note B.)

List 8—Assembly, wiring, and equipment for three intercept trunks per SD-31337-01, Fig. 1, with option W. (See Note B.)

Notes

A. When automatic disconnect of the connector on calling party holds is required per SD-31337-01, Fig. 4, equipment unit J33016AN is required.

B. When an automatic disconnect of connectors feature is specified and plugging-up line circuits are used, equipment per SD-31337-01, Fig. 2 is required and is covered by J33016AM.

J33016R—AT&TCo Std—Intercepting Trunk Unit for Trunks From Plugging-Up Lines—Reversed Outgoing Tip and Ring When Ringing Is Received Over Tip Conductor

List 1—Framework, assembly, wiring, and equipment for one unit of two intercepting trunks from plugging-up lines per SD-31482-01, Fig. 1. (No. of Mtg Plts 1—No. of Ckts 2)

J33016S—AT&TCo Std—Intercepting Trunk Unit for Trunks From Plugging-Up Lines

List 1—Framework, assembly, wiring, and equipment for one unit of two intercepting trunks from plugging-up lines per SD-31339-01, Fig. 1. (No. of Mtg Plts 2—No. of Ckts 2)

J33016T—AT&TCo Prov—Leave-Word Service Line Unit—Arranged for Plugging Up

List 1—Assembly, wiring, and equipment for two leave-word service lines per SD-31794-01, Fig. 1. (See Note A.) (No. of Mtg Plts 1—No. of Ckts 2)

List 2—Wiring and equipment per SD-31794-01, Fig. 1, M apparatus only, required in addition to list 1 when unit is used in offices having superimposed ringing.

Note

A. When list 2 is not provided, wiring per SD-31794-01, Fig. 1, N wiring only, shall be specified in addition to list 1.

J33016U—AT&TCo Std—Intercepting Trunk Unit for Trunks From Trunk Finder or Connector Multiple or Connector Intercepting Trunk-to-Trunk to Distant Office—With Trunk Switch

List 3—Equipment per SD-31771-01, Fig. 1, K apparatus only, required in addition to list 1, 2, 10, 11, 12, or 13 for one trunk for use in offices having vibrating reed-type converters.

List 4—Equipment per SD-31771-01, Fig. 1, L

apparatus only, required in addition to list 1, 2, 10, 11, 12, or 13 for one trunk for use in offices having other than vibrating reed-type ringing converters.

List 5—Equipment per SD-31771-01, Fig. A, with J wiring, required in addition to list 1, 2, 10, 11, 12, or 13 for one trunk for use where no calls use positive superimposed ringing trunk either not connected to the multiple of terminal-per-line connectors or connected to terminal-per-line connectors having trip relay in series with ring. (See Notes B, C, and D.)

List 6—Equipment per SD-31771-01, Fig. A, with N apparatus, required in addition to list 1, 2, 10, 11, 12, or 13 for one trunk for use where any calls use positive superimposed ringing trunk either not connected to the multiple or terminal-per-line connectors or connected to terminal-per-line connectors having trip relay in series with the ring. (See Notes B, C, and D.)

List 7—Equipment per SD-31771-01, Fig. B, required in addition to list 1, 2, 10, 11, 12, or 13 for one trunk for use when the trunk is connected directly to a multiple of terminal-per-line connectors for intercepting all calls and the tripping relay is in series with ground. (See Notes B and C.)

List 8—Equipment per SD-31771-01, Fig. 3, required in addition to list 1, 2, 10, 11, 12, or 13 for one trunk to furnish distinctive tone for intercepted calls.

List 9—Equipment per SD-31771-01, Fig. 4, required in addition to list 8 when distinctive tone is provided for intercepted calls (provide one list 9 per intercepting trunk unit).

List 12—Framework, assembly, wiring, and equipment for one unit of three intercepting trunks and switches for use where intercepting traffic is routed to trunk circuits used by subscribers for calls to the operator per SD-31771-01, Fig. 1 and 2, with M and Y wiring and H and ZB apparatus. (See Notes C, D, E, and F.) (No. of Mtg Plts 6—No. of Ckts 3)

List 13—Framework, assembly, wiring, and equipment for one unit of two intercepting trunks and switches for use where intercepting traffic is routed to trunk circuits used by subscribers for calls to the operator per SD-31771-01, Fig. 1 and 2, with M and

Y wiring and H and ZB apparatus. (See Notes C, D, E, and F.) (No. of Mtg Plts 5—No. of Ckts 2)

Notes

- A. Order three lists 3, 4, 5, 6, 7, or 8 as required when ordering list 12; and order two lists 3, 4, 5, 6, 7, or 8 as required when ordering list 13.
- B. When intercepting calls to tip stations only, T wiring shall be connected by the installer on the unit terminal strip.
- C. When intercepting calls to ring stations only, R wiring shall be connected by the installer on the unit terminal strip.
- D. When provision for connection to tip or ring stations only (T or R wiring) is not required, the installer shall connect B wiring on the unit terminal strip.
- E. When the trunk is connected directly to connector terminals not equipped with a line circuit, the installer should connect S wiring on the unit terminal strip.
- F. When offices are arranged for an external circuit subscriber loop of less than 1400 ohms, the ZC strap located between terminal 2 of the B tube and capacitor T shall be added.
- G. When automatic disconnect of connectors on calling party holds is required per SD-31771-01, Fig. 6, equipment unit J33016AN is required.

J33016W—AT&TCo Std—Outgoing Intercepting Trunk Arranged for Machine Announcements—With or Without Flashing and With or Without Toll Identification Tone

List 2—Wiring and equipment per SD-30990-01, Fig. 6, less Q wiring, required in addition to list 1, 9, or 10 when connection to make-busy circuit is required (not required when list 3 or 4 is used).

List 3—Wiring and equipment per SD-30990-01, Fig. 4, with E option and W wiring, and Fig. 6, with Q wiring, required in addition to list 1, 9, or 10 when used for both trouble and regular intercept with separate

answering jacks at the switchboard.

List 4—Wiring and equipment per SD-30990-01, Fig. 1, X wiring only, Fig. 4, with option E (but less W wiring), and Fig. 6, with Q wiring, required in addition to list 1, 9, or 10 when used for both trouble and regular intercept with common answering jacks at the switchboard.

List 5—Wiring and equipment per SD-30990-01, Fig. A, required in addition to list 1, 9, or 10 when flashing on toll or local calls, toll identification tone, and supervision on toll calls are not required.

List 10—Framework, assembly, wiring, and equipment for one outgoing intercepting trunk per SD-30990-01, Fig. 1 and 5, with ZA apparatus. (See Notes A and B.) (No. of Mtg Plts 3—No. of Ckts 1)

Notes

- A. Furnish options V, X, and B for trunks used for regular intercept only.
- B. When offices are arranged for an external circuit subscriber loop of less than 1400 ohms, the ZB strap located between 7T of relay TK and the No. 210A terminal mounted on the rear of relay RT shall be added.

J33016Y—AT&TCo Std—Outgoing Intercepting Trunk Applique Unit for Arranging Intercepting Trunk Units per ED-31965-01 or ED-31041-01 for Machine Announcements (SD-31965-01)

List 1—Assembly, wiring, and equipment for two applique circuits consisting of that portion of outgoing intercepting trunk SD-30990-01 shown on the equipment drawing. (No. of Mtg Plts 1—No. of Ckts 2)

List 2—Assembly, wiring, and equipment for one applique circuit consisting of that portion of outgoing intercepting trunk SD-30990-01 shown on the equipment drawing. (No. of Mtg Plts 1—No. of Ckts 1)

J33016AA—A&M Only—Intercepting Trunk From Toll Transmission and Toll Intermediate Selector Multiple

List 1—Assembly, wiring, and equipment for one intercepting trunk unit per SD-31769-01, Fig. 1, less all options. (No. of Mtg Plts

1—No. of Ckts 1)

List 2—Wiring and equipment per SD-31769-01, Fig. 1, Z apparatus only, required in addition to list 1 when used with trunk finders. (See Note B.)

List 3—Wiring and equipment per SD-31769-01, Fig. 1, W apparatus only, required in addition to list 1 when calls are routed to an operator over intercepting-type trunks. (See Note A.)

Notes

- A. Wiring per SD-31769-01, Fig. 1, X wiring only, required in addition to list 1 when calls are routed to operator-over-operator offices or O operator-type trunks.
- B. Wiring per SD-31769-01, Fig. 1, Y wiring only, required in addition to list 1 when not used with trunk finder.

J33016AC—AT&T Co Std—Auxiliary Trunk Unit—Arranged for Restricted Service—No. 1, 350A, 355A, 356A, or 360A Office

List 3—Assembly, wiring, and equipment for one unit with two auxiliary trunks per SD-32187-01, Fig. 1.

Note

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

J33016AD—AT&T Co Std—Intercepting Trunk Units and Common Equipment for the No. 7A Announcement System for Machine Intercept Service in Small Dial Offices

List 2—Assembly, wiring, and equipment for two intercepting trunks from local and toll preceding selector multiple per SD-32202-01, Fig. 2, less X apparatus and wiring. (No. of Mtg Plts 1—No. of Ckts 2)

List 3—Assembly, wiring, and equipment for two intercepting trunks from intertoll selector multiple per SD-32202-01, Fig. 3, less V and W wiring. (See Note A.) (No. of Mtg Plts 1—No. of Ckts 2)

List 4—A&M Only—Assembly, wiring, and equipment for two intercepting trunks from toll

transmission or toll intermediate selectors in No. 360A offices, per SD-32202-01, Fig. 4. (No. of Mtg Plts 1—No. of Ckts 2)

List 6—A&M Only—Wiring and equipment per SD-32202-01, X apparatus and wiring only, required in addition to list 2 for use in No. 35E97 offices.

List 7—A&M Only—Assembly, wiring, and equipment for two intercepting trunks from toll transmission or toll intermediate selector multiple in No. 35E97 offices per SD-32202-01, Fig. 1 and B (omit option Z). (No. of Mtg Plts 1—No. of Ckts 2)

List 10—A&M Only—Assembly and equipment for one intercepting trunk for connection to 200-point connectors through shelf jacks for use in conjunction with relay rack shelf-mounted telephone answering sets per SD-32202-01, Fig. 7. (See Note D.)

List 12—Equipment for one intercepting trunk for connection to 200-point connectors through shelf jacks or to an auxiliary trunk circuit, both for use in conjunction with an announcement set and amplifier equipment assembly units per SD-32202-01, Fig. 7. (See Note E.)

List 13—Assembly, wiring, and equipment for two intercepting trunks from terminal-per-line connector terminals per SD-32202-01, Fig. 6, with M and N wiring. (See Note F.)

List 14—Assembly, wiring, and equipment for four intercepting trunks from connector terminals or from toll intermediate selector multiple except in No. 360A and 35E97 offices per SD-32202-01, Fig. 1 and A, with Z apparatus and Z, N, and S wiring. (See Note G.)

Notes

A. Furnish W wiring in addition to list 3 in nonpad control offices and V wiring in pad control offices.

B. The present recorded announcement source comprises a KS-16765 announcement set and a KS-16754 auxiliary amplifier assembled as a complete shop-wired relay rack mounted unit occupying the space of five 2- by 23-inch mounting plates. This equipment is covered on H-400-107 and should be ordered per groups of this drawing. This arrangement replaces the previous arrangement of a 2AA telephone answering set mounted on the shelf per J33016AD, List 11 (Mfr Disc.) and shall be

similarly located at a convenient level on the relay rack for removing and replacing the announcement set for recording and maintenance. It is recommended that the trunk equipment be located immediately above the announcement equipment for convenient installation and maintenance.

- C. A 115-volt 60-Hz power supply, separately fused and not under control of a maintenance cutoff switch, shall be taken to the relay rack bay containing the announcement equipment per Note B for operating the announcement set. An E2 Kondu fitting equipped with an RG-210 or similar receptacle shall be employed at the position of the equipment, with the receptacle facing the equipment.
- D. The equipment per list 10 shall be mounted in a mounting plate position within the confines of the six mounting plate positions allocated for the telephone answering set equipment.
- E. List 12, which consists of relay SL per SD-32202-01, Fig. 7, and a relay cover, shall be shipped loose and mounted by the installer on a separate mounting plate near the announcement set.
- F. The equipment per list 13 is arranged with both M and N installer wiring to the unit terminal strip (the M installer wiring for connection to the switch trouble alarm or miscellaneous alarm circuit when automatic disconnect on calling-party holds is required, or N installer wiring to the traffic register circuit).
- G. The equipment per list 14 is arranged with both N and S installer wiring to the unit terminal strip (the N installer wiring for connection to the traffic register circuit or S installer wiring to the switch trouble alarm circuit or miscellaneous alarm circuit when automatic disconnect on calling-party holds is required).
- H. Unit J23058BT should be ordered on a one-per-office basis whenever a voice alarm and control circuit is to be used in connection with the intercept trunk units. Leads T2, R2, ST, and ST1, normally run to the 7A announcement machine, are to be run via J23058BT.

J33016AE—AT&T Co Std—Intercepting Trunk Units With Controlled Transfer to Operator and Common Equipment for the No. 7A Announcement System for Machine Intercept Service in Small Dial Offices

- List 1***—Assembly, wiring, and equipment for three intercepting trunks with controlled transfer to an operator from connector terminals or from toll intermediate selector multiple except in No. 360A and 35E97 offices per SD-35011-01, Fig. 1. (See Notes A, B, C, D, I, and J.) (No. of Mtg Plts 1—No. of Ckts 3)
- List 2***—Assembly, wiring, and equipment for two intercepting trunks with controlled transfer to an operator from local or toll preceding selector multiple per SD-35011-01, Fig. 2. (See Notes B, C, D, E, I, and J.) (No. of Mtg Plts 1—No. of Ckts 2)
- List 3***—Assembly, wiring, and equipment for two intercepting trunks with controlled transfer to an operator from intertoll selector multiple per SD-35011-01, Fig. 3. (See Notes B, C, D, F, I, and J.) (No. of Mtg Plts 1—No. of Ckts 2)
- List 4***—Assembly, wiring, and equipment for two intercepting trunks with controlled transfer to an operator from toll transmission or toll intermediate selectors in No. 360A offices per SD-35011-01, Fig. 4. (See Notes B, C, D, I, and J.) (No. of Mtg Plts 1—No. of Ckts 2)
- List 5***—Assembly, wiring, and equipment for two intercepting trunks with controlled transfer to an operator from terminal-per-line connector terminals per SD-35011-01, Fig. 5. (See Notes A, B, C, D, I, and J.) (No. of Mtg Plts 1—No. of Ckts 2)
- List 6***—Assembly, wiring, and equipment for two intercepting trunks with controlled transfer to an operator from toll transmission or toll intermediate selector multiple in No. 35E97 offices per SD-35011-01, Fig. 6. (See Notes B, C, D, I, and J.) (No. of Mtg Plts 1—No. of Ckts 2)
- List 7***—Assembly, wiring, and equipment for two auxiliary trunks arranged to restrict service with recorded announcement and with controlled transfer to an operator per SD-35011-01, Fig. 7. (See Notes B, C, D, I, and J.)
- List 8***—Assembly, wiring, and equipment for two

CT lead repeat relays per SD-35011-01, Fig. 8. (No. of Mtg Plts 1—No. of Ckts 2)

List 9—Assembly, wiring, and equipment required in addition to list 8 per SD-35011-01, Fig. 9, when voice alarm and control circuit is specified. (See Note K.)

Notes

- A. Furnish X wiring when automatic disconnect on calling party hold is required.
- B. Furnish W wiring when connection to traffic register circuit is required.
- C. Furnish Y wiring when the class-of-service mark to an operator trunk is required.
- D. Z wiring, which is a nonrecord option, must be removed when the class-of-service mark to an operator trunk is furnished by a resistance ground.
- E. Furnish V wiring when circuit is used in a 35E97 office.
- F. Furnish S wiring with a pad control office; in all others, furnish T wiring.
- G. The recorded announcement source comprises a KS-16765 announcement set and a KS-16754 auxiliary amplifier, assembled as a complete shop-wired relay rack mounted unit occupying the space of five 2- by 23-inch mounting plates. This equipment is covered on H-400-107 and should be ordered whenever an intercepting trunk circuit or auxiliary trunk circuit, each with controlled transfer to operator, is required. One announcement set is to be provided per maximum of 48 intercepting or auxiliary trunk circuits. The announcement unit shall be located at a convenient level on a relay rack for removing and replacing the announcement set for recording and maintenance. It is recommended that the trunk equipment be located immediately above the announcement equipment for convenient installation and maintenance.
- H. A 115-volt, 60-Hz power supply, separately fused and not under control of a maintenance cutoff switch, shall be taken to the relay rack bay containing the announcement equipment per Note G for operating the announcement

set. An E2 Kondu fitting, equipped with an RG-210 or similar receptacle, shall be employed at the position of the equipment, with the receptacle facing the equipment.

- I. Furnish R wiring when connection to TUR or to ground control totalizer circuit is required.
- J. Furnish Q wiring when connection to loop control totalizer circuit is required.
- K. The voice alarm and control unit, J23058BT, when required, shall be ordered on a one-per announcement-machine basis.

J33016AF—Reserved

J33016AG—*A&M Only—Outgoing Intercepting Trunk From Trunk Finders or Connector Multiple to Central "A" Switchboard*

List 1—Framework, assembly, wiring, and equipment for one intercepting trunk unit per SD-31410-02, Fig. 1, A, and H, less C, D, K, M, and N apparatus. (No. of Mtg Plts 3—No. of Ckts 1)

List 2—Equipment and wiring per SD-31410-02, Fig. 1, M and MB apparatus only, required in addition to list 1, to arrange trunk for use with intercepting trunk finder.

List 3—Equipment and wiring per SD-31410-02, Fig. 1, N apparatus only, required in addition to list 1, when trunk is not to be used with trunk finders.

List 4—Equipment and wiring per SD-31410-02, Fig. 1, K apparatus only, required in addition to list 1, when calls through plugging-up lines are to be routed through this trunk. (See Note A.)

List 5—Transformer per SD-31410-02, Fig. 1, C apparatus only, required in addition to list 1 for use with a trunk having less than 1100-ohm impedance at 1000 Hz.

List 6—Transformer per SD-31410-02, Fig. 1, D apparatus only, required in addition to list 1 for use with trunk having greater than 1100-ohm impedance at 1000 Hz.

Notes

- A. When list 4 is not specified, omit relay RV1 and run the C and D leads direct.

- B. When separate answering jacks at the incoming end are provided for TBL intercepting from PU lines, provide equipment and wiring per SD-31410-02, Fig. 1, KA apparatus and Q wiring (omit J wiring).

J33016AH—A&M Only—Intercepting Trunk From Connector Terminals for 4-Party Selective Lines on Which Operators Do Not Rering

- List 1**—Assembly, wiring, and equipment for one intercepting trunk for use with trunk finders per SD-31995-01, Fig. 2, with M wiring. (No. of Mtg Plts 1—No. of Ckts 1)

- List 2**—Assembly, wiring, and equipment for one intercepting trunk for use without trunk finders per SD-31995-01, Fig. 3. (No. of Mtg Plts 1—No. of Ckts 1)

J33016AJ—A&M Only—Intercepting Trunk From Connector Terminals for 2-Party Selective Lines on Which Operators Do Not Rering

- List 1**—Assembly, wiring, and equipment for one intercepting trunk per SD-31995-01, Fig. 4, with M wiring. (No. of Mtg Plts 1—No. of Ckts 1)

- List 2**—Wiring and equipment per SD-31995-01, Fig. L, required in addition to list 1 if connectors have trip relay in ground return path.

- List 3**—Wiring and equipment per SD-31995-01, Fig. M, required in addition to list 1 if connectors use positive superimposed ringing.

Note

- A. Wiring per SD-31995-01, Fig. K, required in addition to list 1 if connectors have trip relay in ringing supply and do not use positive superimposed ringing.

J33016AL—AT&T Co Std—Outgoing Intercepting Trunk—Arranged for E&M Lead Supervision

- List 5**—A&M Only—Equipment per SD-32309-01, Fig. 1, S apparatus only, required in addition to list 1, 2, 3, 4, 9, 10, 11, or 12 when a ringing tone capacitor is required for a No. 35E97 office when a vibrator-type

ringing machine is provided.

- List 6**—A&M Only—Equipment per SD-32309-01, Fig. 1, T apparatus only, required in addition to list 1, 2, 3, 4, 9, 10, 11, or 12 when a ringing tone capacitor is required for a No. 35E97 office when a rotary-type ringing machine or subcycle is provided.

- List 7**—Equipment per SD-32309-01, V apparatus only, required in addition to list 1, 2, 3, 4, 9, 10, 11, or 12 when a ringing tone capacitor is required in other than No. 35E97 offices.

- List 8**—Wiring and equipment per SD-32309-01, Fig. 1, Z wiring and apparatus only, required in addition to list 1, 2, 3, 4, 9, 10, 11, or 12 when fuse failure make-busy feature is required (omit Y wiring).

- List 9**—Assembly, wiring, and equipment for one outgoing intercepting trunk arranged for machine intercept only per SD-32309-01, Fig. 1 and 2, with Q and Y wiring and Q apparatus and W and X wiring to the unit terminal strip. (See Notes A and B.) (No. of Mtg Plts 1—No. of Ckts 1)

- List 10**—Assembly, wiring, and equipment for one outgoing intercepting trunk arranged for regular intercept only per SD-32309-01, Fig. 1 and 3, with Q and Y wiring and Q apparatus and W and X wiring to the unit terminal strip. (See Notes A and B.) (No. of Mtg Plts 1—No. of Ckts 1)

- List 11**—Framework, assembly, wiring, and equipment for two outgoing intercepting trunks arranged for trouble intercept only per SD-32309-01, Fig. 1, 4, 5, and 8, with Q and Y wiring and Q apparatus and W and X wiring to the unit terminal strip. (See Notes A and B.) (No. of Mtg Plts 3—No. of Ckts 2)

- List 12**—Framework, assembly, wiring, and equipment for one outgoing intercepting trunk arranged for more than one class of intercept per SD-32309-01, Fig. 1, 5, 6, and 8, with Q and Y wiring and Q apparatus and W and X wiring to the unit terminal strip. (See Notes A and B.) (No. of Mtg Plts 2—No. of Ckts 1)

Notes

- A. The RT resistance lamp per SD-32309-01, Fig. 7, shall be located on a miscellaneous fuse and lamp panel and associated W installer wiring provided.

- B. When this unit is used for No. 355A or 35E97 offices, the installer shall connect X wiring to the unit terminal strip.

J33016AM—AT&TCo Std—Intercept Trunk Jack Unit—Mounted at VCDF or VMDF—For Use With Intercept Trunks When Automatic Disconnect of Connectors Is Specified and Plugging-Up Line Circuits Are Used

List 1—Assembly, wiring, and equipment for one unit with 50 intercept trunk jack circuits per Note B, for first 50 connector hundred groups for 100-point connector or for first 50 connector shelves for 200-point connector, for use in disabling automatic disconnect of connectors when plugging-up line circuits are used. (See Notes A and C.)

List 2—Assembly, wiring, and equipment for one unit with 50 intercept trunk jack circuits per Note B, required in addition to list 1 for second 50 connector hundred groups for 100-point connector or for second 50 connector shelves for 200-point connector, for use in disabling automatic disconnect of connectors when plugging-up line circuits are used.

Notes

- A. Ten No. 165D plugs shall be furnished with list 1.
- B. This unit can be used for the following: SD-31337-01, Fig. 2; SD-32531-01, Fig. 4; SD-35015-01, Fig. 4; and SD-35042-01, Fig. 6.
- C. The following apparatus may be ordered, on a job basis, by the telephone company in place of J33016AM and shall be located as directed by the telephone company (all items shall be finished, assembled, wired, and installed on a job basis):

As Req'd—Unfinished case or cabinet per ED-66077-50

As Req'd—490A keys mounted in a 339B key mounting (20 per strip)

One—6F designation strip per key mounting

As Req'd—112-type jack spaces

J33016AN—AT&TCo Std—Connector Timed-Release Control Unit—Mounted at VCDF or VIDF—For Use With Intercept Trunks and/or Trunks Arranged To Trip Ringing Without Charging When Automatic Disconnect of Connectors Is Specified and More Than One Intercept Trunk and/or Trunks Arranged To Trip Ringing Without Charging Are Required per Connector Group

List 2—Assembly, wiring, and equipment for one connector timed-release control unit arranged for 70 circuits per SD-30940-01, Fig. 2; SD-31337-01, Fig. 4; SD-31405-01, Fig. 3; SD-31571-01, Fig. 3; SD-31728-01, Fig. 2; SD-31771-01, Fig. 6; and SD-31840-01, Fig. 3. (No. of Mtg Plts 1—No. of Ckts 70)

J33016AP—AT&TCo Std—Outgoing Intercept Trunk—Arranged for Loop or E&M Lead Signaling for Automatic Intercept Service—ANI Type B and Operation With Trunk Finder

List 1—Framework, assembly, wiring, and equipment for one outgoing intercept trunk arranged for operation with nonlevel hunting connector per SD-32532-01, Fig. 1, with S and W wiring and S apparatus. (No. of Mtg Plts 4—No. of Ckts 1)

List 2—Assembly, wiring, and equipment per SD-32532-01, Fig. 2, required in addition to list 1 to arrange the trunk for loop signaling.

List 3—Assembly, wiring, and equipment per SD-32532-01, Fig. 3 and Z wiring, required in addition to list 1 to arrange the trunk for E and M signaling.

List 4—Assembly, wiring, and equipment per SD-32532-01, Fig. 4 and X wiring, required in addition to list 1 to make the trunk busy at the manual outgoing frame.

List 5—Assembly, wiring, and equipment per SD-32532-01, Fig. 5 and Y wiring, required in addition to list 1 to make the trunk busy at the trunk jack.

List 6—Wiring and apparatus per SD-32532-01, V wiring, and the apparatus required in addition to list 1 when the outgoing intercept trunk is arranged for operation with any level hunting connector. (Omit W wiring.)

J33016AR—AT&TCo Std—Auxiliary Intercept Trunk and Isolation Unit—For Use With Automatic Number Identification Type C or D

List 1—Framework, assembly, wiring, and equipment for one auxiliary intercept trunk and isolation unit with two circuits for use with nonlevel hunting connectors per SD-35042-01, 40 Fig. 2, 2 Fig. 1 and 3, 4 Fig. 7, and options V and X. (No. of Mtg Plts 5—No. of Ckts 2)

List 2—Wiring and equipment required in addition to list 1 when announcement circuit is furnished per SD-35042-01, two Fig. 4 and option Y. (Omit options V and X.) (Maximum two list 5.)

Note

A. This unit is intended for mounting on ANI-C or D automatic intercept frames per J33029A, B, C, or D or a miscellaneous relay rack frame.

J33016AS—AT&TCo Std—Outgoing Intercept Trunk Unit—For Automatic Intercept Service (AIS)—Arranged for Use With ANI Type C or D and Operation With Trunk Finders

List 1—Framework, assembly, wiring, and equipment for an outgoing trunk unit for use with automatic intercept service for an ANI-type C or D system per SD-35037-01, Fig. 1 and options V and Y. (No. of Mtg Plts 4—No. of Ckts 1)

List 2—Wiring and equipment required in addition to list 1 to arrange the trunk for loop signaling per SD-35037-01, Fig. 2 and option R.

List 3—Wiring and equipment required in addition to list 1 to arrange the trunk for E and M signaling per SD-35037-01, Fig. 3 and option X.

List 4—Wiring and equipment required in addition to list 1 when this trunk is provided in an office equipped with precise tone per SD-35037-01, option W. (Omit option V.)

List 5—Wiring and equipment required in addition to list 1 when this trunk is provided in an office equipped with an ANI-type C system per SD-35037-01, option Z. (Omit option Y.)

List 6—Equipment per SD-35037-01, option S,

required in addition to list 2 or 3 for use with trunks having an impedance of less than 1100 ohms at 1000 Hz.

List 7—Equipment per SD-35037-01, option T, required in addition to list 2 or 3 for use with trunks having an impedance of 1100 ohms or greater at 1000 Hz.

Note

A. This unit is intended for mounting on ANI-C or D automatic intercept frames per J33029A, B, C, or D or a miscellaneous relay rack frame.

J33016AT—AT&TCo Std—Selector Level Intercept Trunk to AIS With Local Announcement — For Use With ANI-C or ANI-D—For Toll Transmission or Toll Intermediate Selector Level—No. 1, 350A, or 355A Office

List 1—Assembly, wiring, and equipment for one selector level intercept trunk to AIS with local announcement per SD-35048-01, Fig. 1. (No. of Mtg Plts 1—No. of Ckts 1)

J33016AU—A&M Only—Selector Level Intercept Trunk to AIS With Local Announcement—For Use With ANI-C or ANI-D—For Toll Transmission or Toll Intermediate Selector Level—No. 35E97 Office

List 1—Assembly, wiring, and equipment for one selector level intercept trunk to AIS with local announcement per SD-35048-01, Fig. 2. (No. of Mtg Plts 1—No. of Ckts 1)

J33016AW—AT&TCo Std—Selector Level Intercept Trunk to AIS With Local Announcement — For Use With ANI-C or ANI-D—For Intertoll Selector Level—No. 1, 350A, 355A, or 35E97 Office

List 1—Assembly, wiring, and equipment for one selector level intercept trunk to AIS with local announcement per SD-35048-01, Fig. 4. (No. of Mtg Plts 1—No. of Ckts 1)

Note

- A. Furnish option X when trunk is used in a nonpad control office and option Y when trunk is used in a pad control office.

J33016AY—AT&TCo Std—Selector Level Intercept Trunk to AIS With Local Announcement — For Use With ANI-C or ANI-D—For Local or Toll Preceding Selector Level—No. 1, 350A, 355A, or 35E97 Office

- List 1**—Assembly, wiring, and equipment for one selector level intercept trunk to AIS with local announcement per SD-35048-01, Fig. 3. (No. of Mtg Plts 1—No. of Ckts 1)

Note

- A. Furnish option Z when this trunk is used in a No. 35E97 office.

J33016BA—AT&TCo Std—Auxiliary Intercept Trunk and Isolation Unit for Automatic Intercept Service With Level Hunting Connectors—For Use With Automatic Number Identification Type C or D

- List 1**—Framework, assembly, wiring, and equipment for one auxiliary intercept trunk and isolation unit for use with level hunting connectors, per SD-35042-01, 10 Fig. 2, Fig. 3, 5, and 7, and options V, X, Y, and Z.

- List 2**—Wiring and equipment required in addition to list 1 when announcement circuit is furnished per SD-35042-01, Fig. 4 (omit options V and X).

J33016BB—AT&TCo Std—Supplementary Isolation Unit—For Automatic Intercept Service—For Use With Automatic Number Identification Type C or D

- List 1**—Framework, assembly, wiring, and equipment for one supplementary isolation unit per SD-35042-01, Fig. 7 and 10 Fig. 2.

Miscellaneous Equipment

J23058BT—Voice Alarm and Control Unit

5. GENERAL NOTES

List of A&M Only and Mfr Disc. Equipment

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J33016B,L5	Mfr Disc.	3	J33016B,L3 or L8
J33016C,L1 & L11	Mfr Disc.	4	J33016C, L12 L13
L5	Mfr Disc.	4	—
L6	—	—	—
through L10	Mfr Disc.	3	—
L13	A&M Only	4	—
J33016D	Mfr Disc.	3	J33016F
J33016E,L1	Mfr Disc.	3	J33016E,L2
J33016F,L6 through L8	A&M Only	1	—
J33016G	A&M Only	5	—
L5	Mfr Disc.	5	J33016G, L L12
L13	Mfr Disc.	6	—
J33016J	A&M Only	5	—
L5	Mfr Disc.	5	J33016J,L6
L7	Mfr Disc.	6	—
J33016K,L1 & L2	Mfr Disc.	3	J33016K,L6 L7
L6	Mfr Disc.	4	J33016K,L8
J33016L,L1 & L2	Mfr Disc.	4	J33016L,L3 L4
L3,	—	—	J33016L,L7
L4,	—	—	L8
L5	—	—	J33016AN, L1
& L6	Mfr Disc.	5	—
J33016M	Mfr Disc.	6	—
J33016N	Mfr Disc.	6	—
J33016P	Mfr Disc.	4	—
J33016U,L1	—	—	J33016U, L10
& L2	Mfr Disc.	3	L11
L10	—	—	J33016U, L12
& L11	Mfr Disc.	4	L13
L14	Mfr Disc.	3	—

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT	EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J33016W,L1 L6 through L8 L9	Mfr Disc. Mfr Disc. Mfr Disc.	3 3 4	J33016W,L9 — J33016W, L10	J33016AG J33016AH L3 J33016AJ L4 J33016AK J33016AL, L1, L2, L3 & L4 L5 & L6 J33016AN, L1 J33016AU	A&M Only A&M Only Mfr Disc. A&M Only Mfr Disc. Mfr Disc.	3 5 6 5 6 6	— — — — — —
J33016AA J33016AB	A&M Only Mfr Disc.	3 6	— —				
J33016AC,L1 & L2 L4	Mfr Disc. Mfr Disc.	4 5	J33016AC, L3 L4		Mfr Disc.	5	J33016AL,L9 L10 L11 L12
J33016AD, L1 L4, L6 & L7 L5	Mfr Disc. Mfr Disc. A&M Only Mfr Disc.	4 4 4 4	— — — J33016AD, L11				
L8 & L9	Mfr Disc.	5	J33016AD, L13 L14				
L10 L11	A&M Only Mfr Disc.	5 5	J33016AD, L12				J33016AN,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.

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 CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING
J33016A	AT&TCo Std	Three- or 4-Wire Intercepting Trunk for Use With Trunk Finders and No. 3-, 4-, and 6-Type Information Desks — Arranged for Trip Ringing in the Trunk	J33016A-()	SD-30817-01
J33016B	AT&TCo Std	Intercepting Trunk From Toll Selector Multiple, Except AB Toll Preceding Selectors	J33016B-()	SD-32163-01
J33016C	AT&TCo Std	Outgoing Intercepting Trunk With or Without Flashing and Toll Identification Tone	J33016C-()	SD-31965-01
J33016E	AT&TCo Std	Auxiliary Trunk Unit — Digit Absorbing for Use Between Toll Selector Multiple and Intercepting Trunk or Between Local Selector Multiple and Operator Office Trunk — For Delaying Cut-Through	J33016E-()	SD-32084-01
J33016F	AT&TCo Std	Intercepting Trunk Unit for Trunks From Local Selector Multiple	J33016F-()	SD-31767-01
J33016G	A&M Only	Intercepting Trunk Unit for Trunks From Connector Terminals for Code Ringing and Semiselective Party Lines and Full Selective Lines on Which Operators May Rering — For Offices With Interrupter Ground Supply to Connectors	J33016G-()	SD-31995-01
J33016H	AT&TCo Std	Test Trunk Unit for Use With Intercepting Trunk Circuits Requiring Machine Ringing	J33016H-()	SD-32090-01
J33016J	A&M Only	Intercepting Trunk Unit for Trunks From Connector Terminals for Code Ringing and Semiselective Lines on Which Operators May Rering — For Offices With Code Ringing Supply to Connectors	J33016J-()	SD-31995-01
J33016K	AT&TCo Std	Intercepting Trunk Unit for Trunks From Trunk Finder or Connector Bank Multiple or Intercepting Trunk-to-Trunk to Operator Office Arranged to Trip Ringing Only During Ringing Interval — Without Trunk Switch	J33016K-()	SD-31771-01

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING
J33016L	AT&TCo Std	Intercepting Trunk Unit for Trunks From Connector or Toll Train Selector Multiple or From Auxiliary Intercepting Trunk for 8-Party Terminal-per-Line Connector Multiple	J33016L-()	SD-31337-01
J33016R	AT&TCo Std	Intercepting Trunk Unit for Trunks From Plugging-Up Lines — Reversed Outgoing Tip and Ring When Ringing Is Received Over Tip Conductor	J33016R-()	SD-31482-01
J33016S	AT&TCo Std	Intercepting Trunk Unit for Trunks From Plugging-Up Lines	J33016S-()	SD-31339-01
J33016T	AT&TCo Prov	Leave-Word Service Line Unit — Arranged for Plugging Up	J33016T-()	SD-31794-01
J33016U	AT&TCo Std	Intercepting Trunk Unit for Trunks From Trunk Finder or Connector Multiple or Connector Intercepting Trunk-to-Trunk to Distant Office — With Trunk Switch	J33016U-()	SD-31771-01
J33016W	AT&TCo Std	Outgoing Intercepting Trunk Arranged for Machine Announcements — With or Without Flashing and With or Without Toll Identification Tone	J33016W-()	SD-30990-01
J33016Y	AT&TCo Std	Outgoing Intercepting Trunk Applique Unit for Arranging Intercepting Trunk Units per ED-31965-01 or ED-31041-01 for Machine Announcements (SD-31965-01)	J33016Y-()	SD-30990-01
J33016AA	A&M Only	Intercepting Trunk From Toll Transmission and Toll Intermediate Selector Multiple	J33016AA-()	SD-31769-01
J33016AC	AT&TCo Std	Auxiliary Trunk Unit — Arranged for Restricted Service — No. 1, 350A, 355A, 356A, or 360A Office	J33016AC-()	SD-32187-01
J33016AD	AT&TCo Std	Intercepting Trunk Units and Common Equipment for the No. 7A Announcement System for Machine Intercept Service in Small Dial Offices	J33016AD-()	SD-32202-01
J33016AE	AT&TCo Std	Intercepting Trunk Units With Controlled Transfer to Operator and Common Equipment for the No. 7A Announcement System for Machine Intercept Service in Small Dial Offices	J33016AE-()	SD-35011-01

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING
J33016AG	A&M Only	Outgoing Intercepting Trunk From Trunk Finders or Connector Multiple to Central "A" Switchboard	J33016AG-()	SD-31410-02
J33016AH	A&M Only	Intercepting Trunk From Connector Terminals for 4-Party Selective Lines on Which Operators Do Not Rering	J33016AH-()	SD-31995-01
J33016AJ	A&M Only	Intercepting Trunk From Connector Terminals for 2-Party Selective Lines on Which Operators Do Not Rering	J33016AJ-()	SD-31995-01
J33016AL	AT&TCo Std	Outgoing Intercepting Trunk — Arranged for E&M Lead Supervision	J33016AL-()	SD-32309-01
J33016AM	AT&TCo Std	Intercept Trunk Jack Unit — Mounted at VCDF or VMDF — For Use With Intercept Trunks When Automatic Disconnect of Connectors is Specified and Plugging-Up Line Circuits Are Used	J33016AM-()	SD-31337-01 SD-32531-01 SD-35015-01 SD-35042-01
J33016AN	AT&TCo Std	Connector Timed-Release Control Unit — Mounted at VCDF or VIDF — For Use With Intercept Trunks and/or Trunks Arranged to Trip Ringing Without Charging When Automatic Disconnect of Connectors Is Specified and More Than One Intercept Trunk and/or Trunks Arranged To Trip Ringing Without Charging Are Required per Connector Group	J33016AN-()	SD-30940-01 SD-31337-01 SD-31405-01 SD-31571-01 SD-31728-01 SD-31771-01 SD-31840-01
J33016AP	AT&TCo Std	Outgoing Intercept Trunk — Arranged for Loop or E&M Lead Signaling for Automatic Intercept Service — ANI Type B and Operation With Trunk Finder	J33016AP-()	SD-32532-01
J33016AR	AT&TCo Std	Auxiliary Intercept Trunk and Isolation Unit — For Use With Automatic Number Identification Type C or D	J33016AR-()	SD-35042-01
J33016AS	AT&TCo Std	Outgoing Intercept Trunk Unit — For Automatic Intercept Service (AIS) Arranged for Use With ANI Type C or D and Operation With Trunk Finders	J33016AS-()	SD-35037-01
J33016AT	AT&TCo Std	Selector Level Intercept Trunk to AIS With Local Announcement — For Use With ANI-C or ANI-D — For Toll Transmission or Toll Intermediate Selector Level — No. 1, 350A, or 355A Office	J33016AT-()	SD-35048-01

SECTION 814-524-150

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EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING
J33016AU	A&M Only	Selector Level Intercept Trunk to AIS With Local Announcement — For Use With ANI-C or ANI-D for Toll Transmission or Toll Intermediate Selector Level — No. 35E97 Office	J33016AU-()	SD-35048-01
J33016AW	AT&TCo Std	Selector Level Intercept Trunk to AIS With Local Announcement — For Use With ANI-C or ANI-D — For Intertoll Selector Level — No. 1, 350A, 355A, or 35E97 Office	J33016AW-()	SD-35048-01
J33016AY	AT&TCo Std	Selector Level Intercept Trunk to AIS With Local Announcement — For Use With ANI-C or ANI-D — For Local or Toll Preceding Selector Level No. 1, 350A, 355A, or 35E97 Office.	J33016AY-()	SD-35048-01
J33016BA	AT&TCo Std	Auxiliary Intercept Trunk and Isolation Unit for Automatic Intercept Service With Level Hunting Connectors — For Use With Automatic Number Identification Type C or D	J33016BA-()	SD-35042-01
J33016BB	AT&TCo Std	Supplementary Isolation Unit — For Automatic Intercept Service — For Use With Automatic Number Identification Type C or D	J33016BB-()	SD-35042-01
J33016AF	Reserved			

Circuit Schematic Index

CIRCUIT DRAWING	J33016 EQPT CODE	CIRCUIT DRAWING	J33016 EQPT CODE
SD-30817-01	A	SD-31965-01	C
SD-30940-01	AN	SD-31995-01	G, J, AH, AJ
SD-30990-01	W, Y	SD-32084-01	E
SD-31337-01	L, AM, AN	SD-32090-01	H
SD-31339-01	S	SD-32163-01	B
SD-31405-01	AN	SD-32187-01	AC
SD-31410-02	AG	SD-32202-01	AD
SD-31482-01	R	SD-32309-01	AL
SD-31571-01	AN	SD-32531-01	AM
SD-31728-01	AN	SD-32532-01	AP
SD-31767-01	F	SD-35011-01	AE
SD-31769-01	AA	SD-35015-01	AM
SD-31771-01	K, U, AN	SD-35037-01	AS
SD-31794-01	T	SD-35042-01	AM, AR, BA, BB
SD-31840-01	AN	SD-35048-01	AT, AU, AW, AY

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