

**"TOUCH-TONE" DIAL EQUIPMENT  
FOR ATTENDANT SWITCHBOARDS  
EQUIPMENT DESIGN REQUIREMENTS  
PBX SYSTEMS**

**1. GENERAL****SCOPE**

**1.01** This specification, together with the supplementary information listed herein, covers the equipment and circuit requirements for providing, through field modification, TOUCH-TONE calling at the attendant switchboards for PBX systems.

**1.02** Optional ordering lists are available for selection and installation of either a 16-button, or the standard 10-button TOUCH-TONE dial on 551A, 551B, 551D, 552A, 552B, 552D, 552E, 555, 556A, 605A, 607A, 607B, and 608A PBX switchboards.

**1.03** This specification is reissued to incorporate previous appendix changes and to remove references to the 608D PBX. No. 608D units were built per this information which is now shown in J53132 (809-755-157).

**DESCRIPTION**

**1.04** The TOUCH-TONE equipment provided at attendant switchboards consists of a dial, dial mounting, and dial auxiliary unit. The dial assembly mounts on the surface of the keyshelf in the space normally occupied by the rotary dial, and a dial auxiliary unit mounts on the underside of the keyshelf, immediately below the dial assembly or, in the case of the 555, 556, and 557A switchboards, directly on a telephone unit.

**1.05** The dial auxiliary unit provides 7 to 9 volts to the TOUCH-TONE dial regardless of local battery variations. The dial is coupled to the line by means of a four winding transformer and, when idle, the primary winding is short-circuited by the normal contacts in the dial. When the dial is operated, the trans-

former is coupled to the line, a capacitor is connected across the line on the station side and the TOUCH-TONE signals are generated in the conventional manner.

**Application**

**1.06** This specification provides ordering codes for a TOUCH-TONE dial and dial auxiliary unit for application to the various PBX switchboards listed in Part 4.

**1.07** For the modification of existing switchboards in the field, codes J58850A, B, C, and D are available. Each code provides modification information and components for a related group of switchboards as described under Part 4. When ordered per this specification, the necessary parts, wiring, and modification information are furnished as a single package.

**1.08** Codes J58850AA and AD cover dial auxiliary units mounting the apparatus components associated with the TOUCH-TONE dial. Code J58850AC is a complete assembly of TOUCH-TONE dial and auxiliary components. These units are included, as required, as part of the equipment modification ordering codes listed above.

**1.09** A TOUCH-TONE card dialer is provided for application to the 557A, 557B PBX. The arrangement calls for the card dialer to be mounted on the right side of the keyshelf and employs the dial auxiliary unit J58850AD in much the same fashion as the TOUCH-TONE calling dial.

**1.10** The J58850G modification kit provides a 16-button TOUCH-TONE dial for 1- and 2-type consoles.

**2. SUPPLEMENTARY INFORMATION**

809-000-000 — PBX Systems Index

AA128.006 — Checking List — General Equipment Requirements

- J53101 (809-752-150) — 605A PBX Switchboard  
 J53104 (809-715-152) — 551D PBX Switchboard  
 J53106 (809-753-150) — 606A PBX Switchboard  
 J53110 (809-717-150) — 554B PBX Switchboard  
 J53112 (809-716-154) — 552D PBX Switchboard  
 J53113 (809-753-151) — 606B PBX Switchboard  
 J53118 (809-754-150) — 607A PBX Switchboard  
 J53119 (809-754-151) — 607B PBX Switchboard  
 J53121 (809-716-156) — 552E PBX Switchboard  
 J53123 (809-716-155) — 552D PBX Switchboard  
 J53124 (809-716-157) — 552E PBX Switchboard  
 J53125 (809-755-150) — 608A PBX Switchboard  
 J59001 (809-715-150) — 551A PBX Switchboard  
 J59002 ( ) — 551B PBX Switchboard  
 J59004 (809-716-150) — 552A PBX Switchboard  
 J59011 (809-717-151) — 554C PBX Switchboard  
 J59013 (809-718-150) — 555 PBX Switchboard  
 J59018 (809-719-150) — 556A PBX Switchboard  
 J59020 (809-716-152) — 552B PBX Switchboard  
 J59023 (809-720-150) — 557A PBX Switchboard  
 J59024 (809-720-151) — 557B PBX Switchboard  
 J59025 (809-716-151) — 552A PBX Switchboard  
 J59026 (809-716-153) — 552B PBX Switchboard  
 X-63048 — Engineering Requirements for No. 550C PBX Switchboards — 30 Office Capacity  
 X-63049 — Engineering Requirements for No. 550C PBX Switchboards — 80 Line Capacity  
 X-63050 — Engineering Requirements for No. 550C PBX Switchboards — 320 Line Capacity

**3. DRAWINGS**

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

**Circuits**

- SD-65656-01 — No. 607A Telephone and Dial Circuit  
 SD-65658-01 — No. 556A Cord, Telephone and Dial Circuit  
 SD-65671-01 — No. 607B Telephone and Dial Circuit  
 SD-65714-01 — No. 557A Cord, Telephone and Dial Circuit  
 SD-65731-01 — No. 557B Cord, Telephone and

**Dial Circuit**

- SD-65774-01 — Switchboard Peg Count Circuit  
 SD-65787-01 — No. 552A, 552B, 552D, 552E or 605A Attendant's Telephone and Dial Circuit  
 SD-66129-01 — No. 605A or 701A Telephone and Dial Circuits  
 SD-66180-01 — No. 551A, 551B or 551D Telephone and Dial Circuits  
 SD-66193-01 — No. 551A or 551B Position Grouping Key Circuit  
 SD-66261-01 — No. 606A Telephone and Dialing Circuit  
 SD-66273-01 — No. 552A, 552B, 552D, 552E or 605A Position Grouping Key Circuit  
 SD-66366-01 — No. 554B Telephone and Dialing Circuit  
 SD-66405-01 — No. 606A Telephone and Dialing Circuit  
 SD-66425-01 — No. 552A, 552B, 552D, 552E, 605A or 701A Attendant's Telephone and Dial Circuit  
 SD-66465-01 — No. 554B or 554C Telephone and Dialing Circuits  
 SD-66468-01 — No. 606A Telephone and Dialing Circuit  
 SD-66520-01 — No. 555 Cord, Telephone and Dial Circuit  
 SD-66619-01 — No. 606B Telephone and Dialing Circuit  
 SD-66654-01 — No. 606B Telephone and Dialing Circuit  
 SD-66720-01 — No. 608A Cord Circuit  
 SD-66721-01 — No. 608A Position Circuit  
 SD-66722-01 — No. 608A, Auxiliary Signal, FA, BATCO and Miscellaneous Circuit  
 SD-66916-01 — TOUCH-TONE Calling Dial Auxiliary Circuit  
 SD-66917-01 — No. 550BX, 550C, and 550SC Conversion Circuit for TOUCH-TONE Calling  
 SD-1E065-01 — Modification of 1- and 2-Type Consoles to Add 16-Button TOUCH-TONE Dial for Use With 701B PBX

**Equipment**

- ED-66723-( ) — TOUCH-TONE Calling Equipment Arrangement for PBX Switchboards  
 J58850A-( ) — TOUCH-TONE Dial and Dial Auxiliary Unit for Attendant

Switchboards No. 550BX, 550C, 550SC, 551A, 551B, 551D, 552A, 552B, 552D, 552E, 554B, 554C, 605A, 606A, 606B, 607A, and 607B

J58850B-( ) — TOUCH-TONE Dial and Dial Auxiliary Unit for Attendant Switchboards No. 555, 556A, and 557A

J58850C-( ) — TOUCH-TONE Dial and Dial Auxiliary Unit for Attendant Switchboards No. 608A

J58850D-( ) — TOUCH-TONE Dial and Dial Auxiliary Unit for Attendant Switchboard No. 557B

J58850E-( ) — TOUCH-TONE Card Dialer and Auxiliary Unit for One 557A PBX Switchboard

J58850F-( ) — TOUCH-TONE Card Dialer and Auxiliary Unit for One 557B PBX Switchboard

J58850G-( ) — Modification Kit for Addition of 16-Button TOUCH-TONE Dial to 1- and 2-Type Consoles

J58850AA-( ) — Dial Auxiliary Unit for Attendant Switchboards No. 550BX, 550C, 550SC, 551A, 551B, 551D, 552A, 552B, 552D, 552E, 554B, 554C, 605A, 606A, 606B, 607A, and 607B

J58850AC-( ) — TOUCH-TONE Dial Assembly for 608A

J58850AD-( ) — Dial Auxiliary Unit for Attendant Switchboards No. 555, 556A, 557A and 557B

**4. EQUIPMENT**

*J58850A (AT&T Co Std) — TOUCH-TONE Dial and Dial Auxiliary Unit for Attendant Switchboards No. 550BX, 550C, 550SC, 551A, 551B, 551D, 552A, 552B, 552D, 552E, 554B, 554C, 605A, 606A, 606B, 607A, and 607B*

Equipment — J58850A-( )

Equipment Arrangement — ED-66723-( )

*List 1* — TT dial and dial auxiliary unit for one attendant switchboard position. (See note A.)

	EQUIP
J58850AA, L1	1
SD-66916-01, Fig. 1, "S" option	1
Package of wire and miscellaneous hardware	1

*List 2* — One set of circuit and equipment drawings and schematic circuit descriptions for 550BX, 550C, and 550SC PBX switchboards.

*List 3* — One set of circuit and equipment drawings, and schematic circuit descriptions for 551A, 551B, and 551D PBX switchboards.

*List 4* — One set of circuit and equipment drawings, and schematic circuit descriptions for 552A, 552B, 552D, 552E, and 605A PBX switchboards.

*List 5* — One set of circuit and equipment drawings, and schematic circuit descriptions for 554B and 554C PBX switchboards.

*List 6* — One set of circuit and equipment drawings, and schematic circuit description for 606A PBX switchboard.

*List 7* — One set of circuit and equipment drawings, and schematic circuit description for 606B PBX switchboard.

*List 8* — One set of circuit and equipment drawings, and schematic circuit description for 607A PBX switchboard.

*List 9* — One set of circuit and equipment drawings, and schematic circuit description for 607B PBX switchboard.

*List 10* — 16-button TT dial and dial auxiliary unit for one attendant switchboard position for No. 551A, 551B, 551D, 552A, 552B, 552D, 552E, 605A, 607A, and 607B switchboards. (See Note A.)

	EQUIP
J58850AA.L1	1
SD-66916-01, Fig. 1, "T" option	1
Package of wire and miscellaneous hardware	1

**Note**

A. This equipment, together with a set of circuit and equipment drawings and schematic circuit description, applicable to the switchboard to be modified, shall be shipped in one container which shall be stamped with the J-code and corresponding list numbers.

**J58850B (AT&TCo Std) — TOUCH-TONE Dial and Dial Auxiliary Unit for Attendant Switchboards No. 555, 556A, and 557A**

Equipment — J58850B-( )

Equipment Arrangement — ED-66723-( )

**List 1** — TT dial and dial auxiliary unit for one attendant switchboard position. (See note A.)

**EQUIP**

J58850AD,L1	1
SD-66916-01, Fig. 1, "S" Option	1
Package of wire and miscellaneous hardware	1

**List 2** — One set of circuit and equipment drawings, and schematic circuit description for 555 PBX switchboard.

**List 3** — One set of circuit and equipment drawings, and schematic circuit description for 556A PBX switchboard.

**List 4** — One set of circuit and equipment drawings, and schematic circuit description for 557A PBX switchboard.

**List 5** — 16-button TT dial and dial auxiliary unit for one attendant switchboard position for No. 555 and 556A switchboard. (See Note A.)

**EQUIP**

J58850AD,L1	1
SD-66916-01, Fig. 1, "T" Option	1
Package of wire and miscellaneous hardware	1

**Note**

A. This equipment, together with a set of circuit and equipment drawings and schematic circuit description, applicable to the switchboard to be modified, shall be shipped in one container which shall be stamped with the J-code and corresponding list numbers.

**J58850C (AT&TCo Std) — TOUCH-TONE Dial and Dial Auxiliary Unit for Attendant Switchboard No. 608A**

Equipment — J58850C-( )

Equipment Arrangement — ED-66723-( )

**List 1** — TT dial and dial auxiliary unit for one attendant switchboard position. (See note A.)

**EQUIP**

J58850AC, L1	1
SD-66721-01, Fig. 12	1
Package of wire and miscellaneous hardware	1

**List 2** — One set of circuit and equipment drawings and schematic circuit description for 608A PBX switchboard.

**List 3** — 16-button TT dial and dial auxiliary unit for one attendant switchboard position. (See Note A.)

**EQUIP**

J58850AC,L2	1
SD-66721-01, Fig. 12	1
Package of wire and miscellaneous hardware	1

**List 4 (Special)** — 16-button TT dial and dial auxiliary unit together with remounted rotary dial for one attendant switchboard position. (See Note A.)

**EQUIP**

J58850AC, L2	1
SD-66721-01, Fig. 6 and 12	1
Mounting plate, package of wire, and miscellaneous hardware	1

**Note**

A. This equipment, together with a set of circuit and equipment drawings and schematic circuit description shall be shipped in one container which shall be stamped with the J-code and corresponding list numbers.

**J58850D (AT&TCo Std) — TOUCH-TONE Dial and Dial Auxiliary Unit for Attendant Switchboard No. 557B**

Equipment — J58850D-( )

Equipment Arrangement — ED-66723-( )

**List 1** — TT dial and dial auxiliary unit for one attendant switchboard position. (See note A.)

**EQUIP**

J58850AD,L1	1
SD-66916-01, Fig. 1, "S" option	1
Package of wire and miscellaneous hardware	1

**List 2** — One set of circuit and equipment drawings and schematic circuit description for 557B PBX switchboard.

**Note**

A. This equipment, together with a set of circuit and equipment drawings and schematic circuit description shall be shipped in one container which shall be stamped with the J-code and corresponding list numbers.

**J58850E (AT&TCo Std) — TOUCH-TONE Card Dialer and Auxiliary Unit for One 557A PBX Switchboard**

Equipment — J58850E-( )  
Equipment Arrangement — ED-66723-( )

**List 1** — TOUCH-TONE card dialer for one 557A PBX (see Note A).

	EQUIP
J58850AD, L1	1
26E TOUCH-TONE card dialer	1
Package of wire and miscellaneous hardware	1
SD-65714-01, Fig. 2, ZK option	1

**List 2** — One set of circuit and equipment drawings and schematic circuit description for 557A PBX switchboard

**Note**

A. This equipment, together with a set of circuit and equipment drawings and schematic circuit description shall be shipped in one container which shall be stamped with the J-code and list numbers.

**J58850F (AT&TCo Std) — TOUCH-TONE Card Dialer and Auxiliary Unit for One 557B PBX Switchboard**

Equipment — J58850F-( )  
Equipment Arrangement — ED-66723-( )

**List 1** — TOUCH-TONE card dialer and auxiliary unit for one 557B PBX switchboard (see Note A).

	EQUIP
J58850AD, L1	1
26E TOUCH-TONE card dialer	
Package of wire and miscellaneous hardware	1

**List 2** — One set of circuit and equipment drawings and circuit descriptions for 557B PBX switchboard.

**Note**

A. This equipment together with a set of circuit and equipment drawings and circuit description shall be shipped in one container which shall be stamped with the J-code and list numbers.

**J58850G (AT&TCo Std) — Modification Kit for Addition of 16-Button TOUCH-TONE Dial to 1- and 2-Type Consoles**

Equipment — J58850G-( )

**List 1** — Apparatus and wiring for one modification kit per SD-1E065-01, Fig. 1 and 2.

**List 2** — One set of circuit, wiring, and equipment drawings, including SD-67001-01 circuit drawing and schematic circuit description.

**J58850AA (AT&TCo Std) — Dial Auxiliary Unit for Attendant Switchboards No. 550BX, 550C, 550SC, 551A, 551B, 551D, 552A, 552B, 552D, 552E, 554B, 554C, 605A, 606A, 606B, 607A, and 607B**

Equipment — J58850AA-( )

**List 1** — Assembly, wiring, and equipment for one TOUCH-TONE dial auxiliary unit per SD-66916-01, Fig. 1.

**J58850AC (AT&TCo Std) — TOUCH-TONE Calling Dial Assembly for Attendant Switchboard No. 608A**

Equipment — J58850AC-( )

**List 1** — Framework, assembly, wiring, and equipment for one TOUCH-TONE calling dial assembly.

	WIRE	EQUIP
Position Circuit, SD-66721-01, Fig. 10, Fig. 11 with "ZH" option	1	1
Transfer Key Circuit, SD-66721-01, Fig. 8	1	1
Peg Count Circuit, SD-65774-01, Fig. 6	1	1
Paging Circuit, SD-66721-01, Fig. 14	1	1

**List 2** — Framework, assembly, wiring, and equipment for one 16-button TOUCH-TONE calling dial assembly for No. 608A switchboard.

	WIRE	EQUIP
Position Circuit, SD-66721-01, Fig. 10 and Fig. 11 with "ZJ" Option	1	1
Transfer Key Circuit, SD-66721-01, Fig. 8	1	1
Peg Count Circuit SD-65774-01, Fig. 6	1	1
Paging Circuit, SD-66721-01, Fig. 13	1	1

**J58850AD (AT&T Co Std) — Dial Auxiliary Unit for Attendant Switchboards No. 555, 556A, 557A, and 557B**

Equipment — J58850AD-( )

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**List 1** — Assembly, wiring, and equipment for one TOUCH-TONE dial auxiliary unit per SD-66916-01, Fig. 1.

**5. GENERAL NOTES**

**5.01** Codes J58850H through J58850Z are unassigned.

**List of "A&M Only" and "Mfr Disc." Equipment**

The following 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.

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J58850AB,L1	Mfr Disc.	1	J58850AD,L1