SS2-TOUCH-TONE® SELECTIVE SIGNALING SYSTEM EQUIPMENT DESIGN REQUIREMENTS PRIVATE SERVICE SYSTEMS

1. GENERAL

Scope

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the framework, equipment, and circuits to be used in the manufacture and installation of the SS2 TOUCH-TONE selective signaling system.

Description

1.02 This circuit employs TOUCH-TONE frequencies to provide signaling between stations in a nonprivacy mode over a 4-wire private line facility. It also provides for group coding, via relays in a 4-wire terminating set, and thus permits the signaling of any combination of stations by dialing a single 3-digit code. A maximum of 243, 3-digit codes may be assigned to stations associated with the system.

1.03 The signaling equipment consists of two 2- by 23-inch panels, one of which contains common logic, a power supply, and the capacity to recognize up to 8 responses, (Fig. 1). The second panel has the capacity of adding up to 16 code responses.

1.04 A digit counter, interdigital timer, and decoder form the common logic which is mounted on a plug-in printed wiring board that measures 7.5 by 5.6 inches (Fig. 2). This board is required at all locations regardless of the number of stations. Coding the board is accomplished by means of spade ended leads that are inserted under the appropriate screw terminals.

1.05 The code output circuit is mounted on a 3.5- by 5.3-inch plug-in printed wiring board (Fig. 3). Code selection is accomplished by means of spade ended leads which are inserted under screw terminals. The circuit pack has a 4 response capacity. A maximum of 6 packs (24 responses) is permitted per 4.5-volt power supply. A response output is a 100-ms ground pulse that is supplied to the code relay located in a 4-wire terminating set. Provision is made for inserting a maximum of two code output boards on the basic panel, which also contains the common logic board mentioned in 1.04. Up to four additional code output boards may be installed in a second panel.

1.06 The power supply and voltage regulator consists of a transistor, several diodes, resistors, and capacitors. The supply, mounted on the basic panel, reduces −48 volts to −4.5 volts which supplies power to the basic as well as the additional response panel. Up to 24 responses may be powered from the supply.

1.08 Connection to either panel is accomplished by means of wire-wrap terminals. A cord equipped with a plug and attached to the basic panel provides connection to the TOUCH-TONE receiver.

2. SUPPLEMENTARY INFORMATION

AA128.006 – Checking List – General Equipment Requirements
J53045 – (AA321.035) 4-Wire Private Line Terminating and Station Equipment – Station Systems
J58844 – (809-140-152) TOUCH-TONE – Calling Receiver – PBX Systems

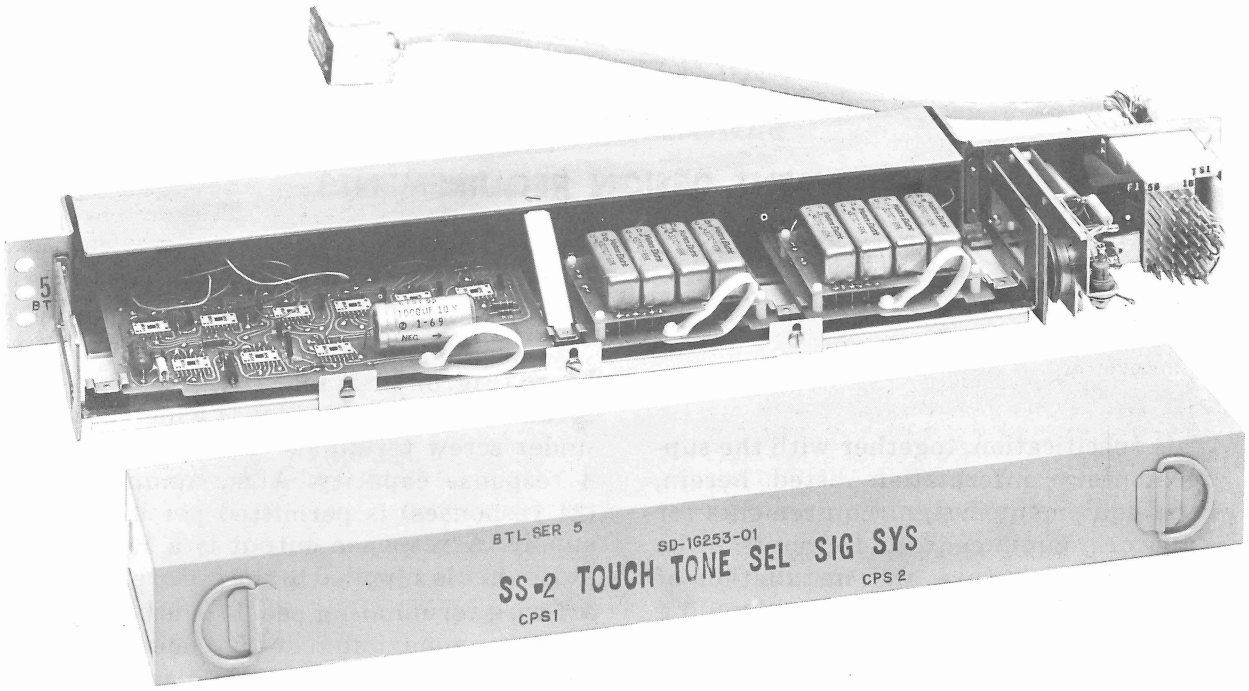

Fig. 1 — Basic Location Panel

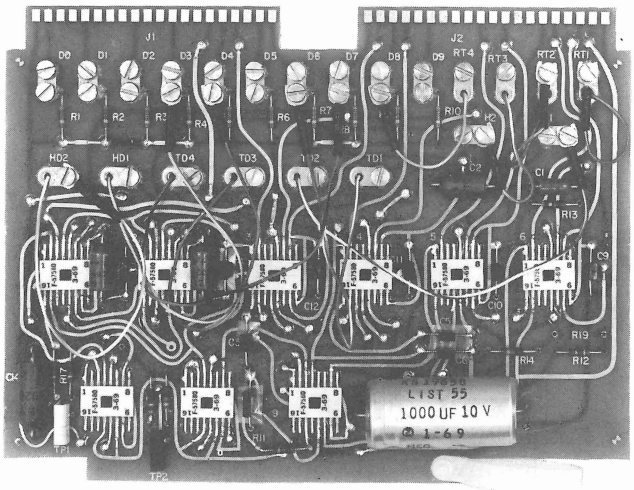

Fig. 2 — Common Logic

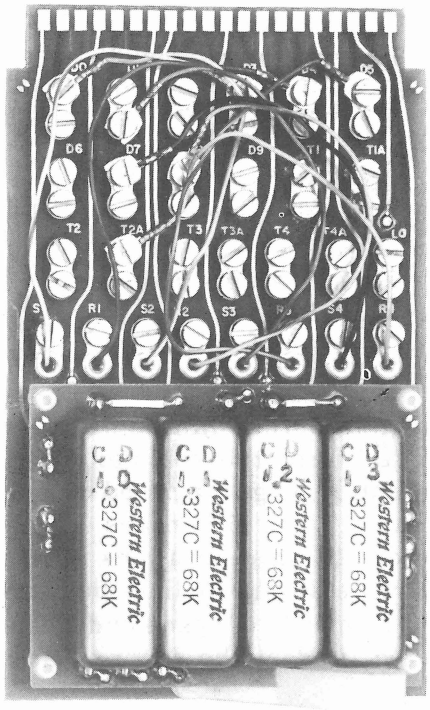

Fig. 3 — Code Output

502-532-121 – 2568HAA Telephone Set – Station System – Identification
502-532-432 – Connections

3. DRAWINGS

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

Circuits

SD-1G253-01 – Private Service Systems – SS2 TOUCH-TONE Selective Signaling System
SD-67027-01 – PBX Systems – TOUCH-TONE Calling Receiver

Equipment

ED-1G174-( ) – Typical Equipment Arrangements
ED-1G176-( ) – Cord Assembly
ED-1G177-( ) – Printed Wiring Board – Decoder
ED-1G178-( ) – Printed Wiring Board – Code Output
ED-1G179-( ) – Printed Wiring Board – Voltage Regulator
J1G025A-( ) – Basic Location Panel
J1G025B-( ) – Additional Response Panel
J1G025AA-( ) – Power Supply

4. EQUIPMENT

J1G025A (AT&TCo Std) – Basic Location Panel

Equipment – J1G025A-( )

List 1 – Framework, assembly, equipment, and wiring for one basic panel per SD-1G253-01, App Fig. 1 and 2 (includes one J1G025AA, L1 power supply).

List 2 – Includes one ED-1G177-30, G1 decoder, and one ED-1G178-30, G1 code output.

List 3 – Same as list 2, except it contains two ED-1G178-30, G1 code output.

Note:

A. One J58844 TOUCH-TONE calling receiver required for each J1G025A, List 1 (SS2 base location panel).

J1G025B (AT&TCo Std) – Additional Response Panel

Equipment – J1G025B-( )

List 1 – Framework, assembly, equipment, and wiring for one additional response panel per SD-1G253-01, App Fig. 2.

List 2 – Includes one ED-1G178-30, G1 code output (maximum 4).

J1G025AA (AT&TCo Std) – Power Supply

Equipment – J1G025AA-( )

List 1 – Framework, assembly, equipment, and wiring for one power supply per SD-1G253-01, App Fig. 1 (includes one ED-1G179-30, G1 printed wiring circuit pack, voltage regulator).

5. GENERAL NOTES

5.01 Codes C through Y are unassigned.

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