

TRANSMITTER TRUNK TERMINATING UNIT
PERSONAL SIGNALING SERVICE
EQUIPMENT DESIGN REQUIREMENTS
RADIO SYSTEMS

1. GENERAL

Scope

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for a transmitter trunk terminating unit for use in the BELLBOY® personal signaling service transmitter.

1.02 This specification is reissued to rate J41643A, List 1 Mfr Disc. This unit is not compatible with the BELLBOY transmitter.

Capacity

1.03 One transmitter trunk terminating unit is required per transmitter. Maximum conductor loop resistance is 10,000 ohms; maximum earth potential between terminal and TTU is ± 25 volts.

Description

1.04 The trunk terminating unit is a 4-inch high, 19-inch long panel (Fig. 1 Front, Fig. 2 Back) mounted in each BELLBOY transmitter cabinet.

It provides a means of connecting one 2-wire trunk from a J1 control terminal to the transmitter. This panel provides both interconnecting voice-frequency facilities between the 2-wire trunk and the audio input of the transmitter, and dc control facilities for operation of the transmitter. The following functions are performed:

- (a) Provide means for isolating the dc control functions from the ac signal path.
- (b) Provides a means for start control of the transmitter.
- (c) Automatically unkeys the transmitter when the carrier is not modulated.
- (d) Provides a carrier on indication to the terminal when carrier is being radiated.
- (e) Provides a means for remote and local restoring of the keying control to the control terminal.

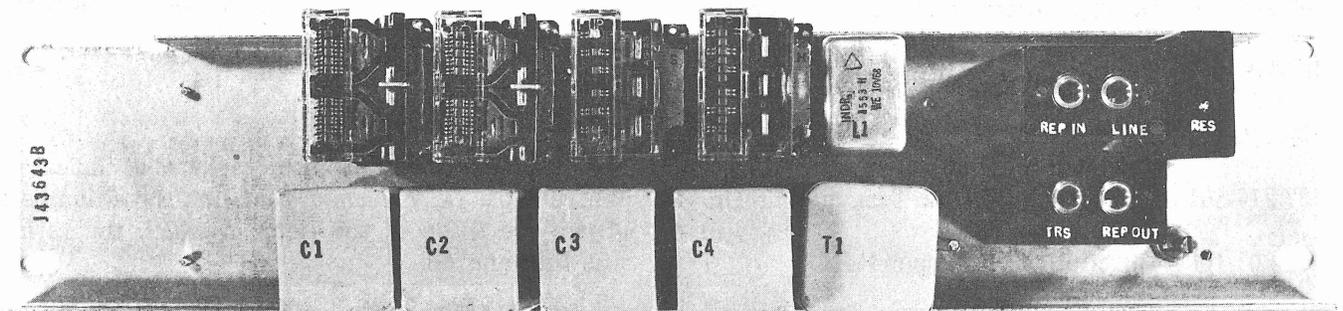


Fig. 1—Panel (Front)

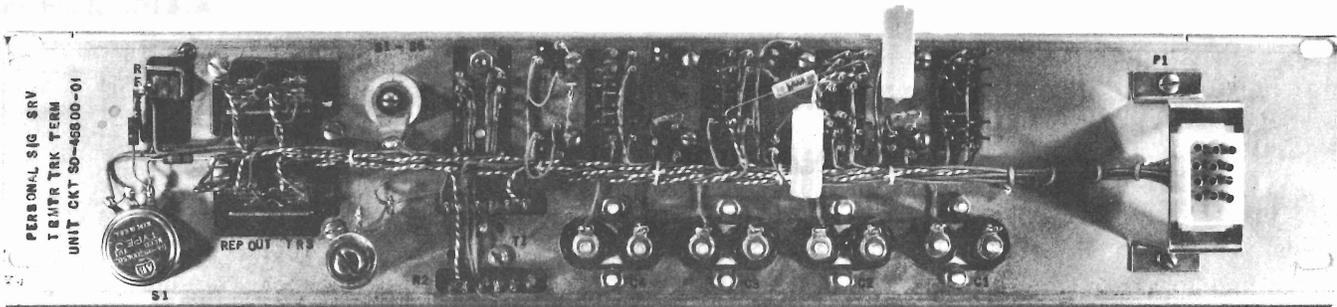


Fig. 2—Panel (Back)

(f) Provides jacks for easy access to the circuit and for isolating this circuit from connecting equipment.

(g) Provides a means of matching the input impedance of the transmitter to the trunk line to the control terminal.

Additional Test Instruments

1.05 In addition to the equipment listed herein, the following portable test apparatus is required for installation and maintenance of J4164B TTU:

- 1—J24753A Timing Test Set
- 1—Transmission Measuring Set No. 21A

2. SUPPLEMENTARY INFORMATION

- 800-600-000—List of General Equipment Requirement Sections
- 806-000-000—Equipment Design and General Equipment Requirements and Engineering Information—Radio Systems and Television Systems
- 407-200-100—General Description BELLBOY Personal Signaling System No. 1B
- 407-200-101—Transmitter Controls and Alarms Description
- 407-210-100—Description Transmitter Trunk Terminating Unit
- 407-210-501—Transmitter Trunk Terminating Unit Tests
- 407-201-100—Description of Transmitter

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3. DRAWINGS

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

J41643B-()—Transmitter Trunk Terminating Unit
SD-46800-01—Personal Signaling Service Transmitter Trunk Terminating Unit

4. EQUIPMENT

J41643B—AT&T Co Std—Transmitter Trunk Terminating Unit

Equipment—J41643B-()

List 1—Assembly, wiring, and equipment per SD-46800-01 for one transmitter trunk terminating unit.

5. GENERAL NOTES

List of A&M Only and Mfr Disc. Equipment

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J41643A	Mfr Disc.	1	J41643B

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.