

OPERATOR'S TRAINING CIRCUIT

SUBSCRIBER LINES

TELETYPEWRITER SWITCHBOARDS 3A AND 3C

1. GENERAL

1.01 This section describes a method of making tests on the operator's training circuit (SD-70262-01) associated with 3A and 3C TWX switchboards.

1.02 This circuit is provided for training operators on the method of establishing connections to subscriber lines. The training equipment, keys and lamps, is mounted in vacant key-shelf space in a regular operator's position teletypewriter table. The loop sides of two subscriber lines are terminated in this equipment and an arrangement is provided whereby the teletypewriter may be disassociated from its regular position circuit and used to terminate either one of the subscriber lines, so as to simulate a customer's station set. In this manner, calls can be originated from the training position and communication and supervisory features can be checked at the multiple-jack appearances of the subscriber line circuits, using the regular cord and position equipment associated with the switchboard.

1.03 POS B, referred to herein as the instructor's position, has the training circuit lamp and key equipment, arranged for transferring the position teletypewriter to the training equipment. POS A, referred to herein as the student's position, is adjacent to POS B. The answer lamps associated with the two subscriber lines assigned to the training circuit are omitted at all positions except at POS A.

2. APPARATUS

2.01 No testing apparatus is required for these test procedures.

3. METHOD (Fig. 1)

(A) Test of Line 1

3.01 At POS B: Operate the TRNS (transfer) key to the TRAIN position. This connects the position teletypewriter to the training circuit. The teletypewriter should run closed and not respond to typing from its keyboard. All other keys should be in their normal positions.

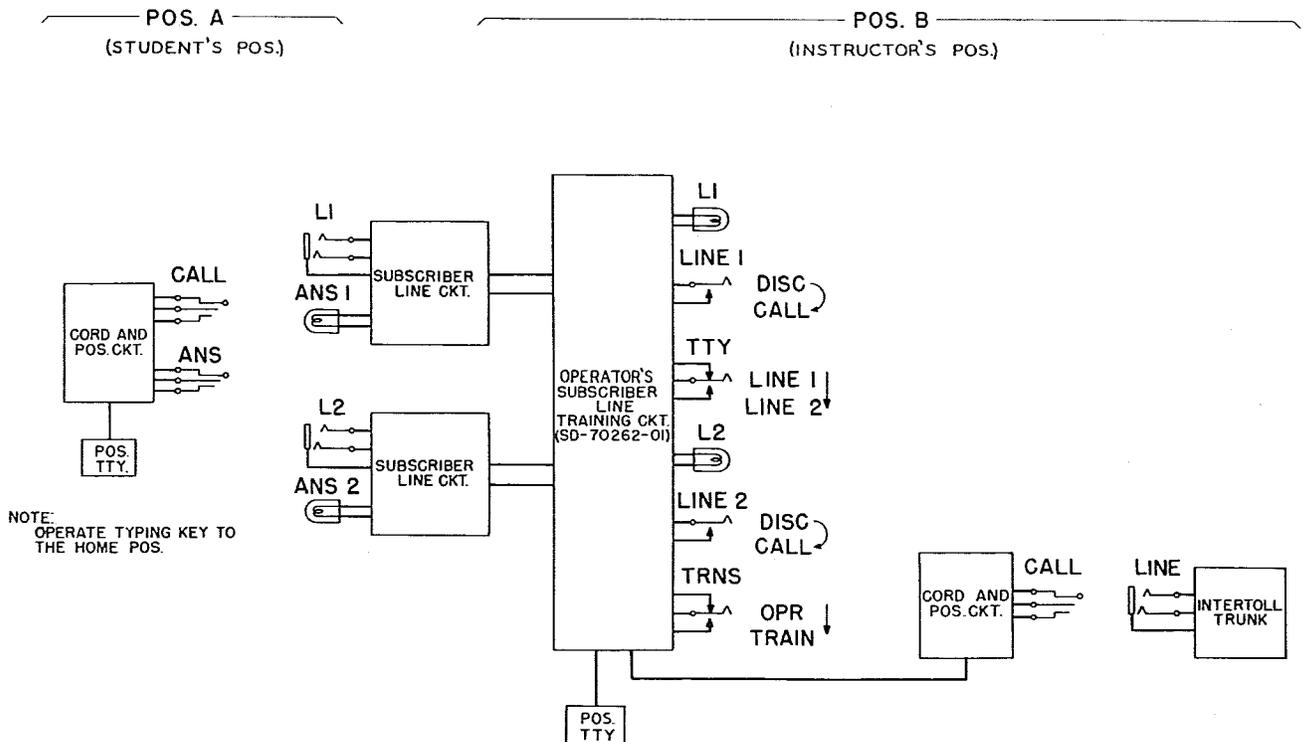


Fig. 1 - Subscriber-line Training Circuit

Call to POS A

- 3.02 At POS B: Operate LINE 1 key to the CALL position.
- 3.03 At POS A: The ANS 1 lamp should light. Operate the typing key of an idle cord circuit to the HOME position. Insert the plug of the ANS cord into the L1 jack. The ANS lamp should go out. The position teletypewriter should run closed.

Typing Test

- 3.04 At POS A: Type on the keyboard and the POS B teletypewriter should respond.
- 3.05 At POS B: Type on the keyboard and the POS A teletypewriter should respond.

Recall Test

- 3.06 At POS A: Restore the cord-circuit typing key to normal.
- 3.07 At POS B: Operate the LINE 1 key to the DISC position momentarily and then restore it to the CALL position.
- 3.08 At POS A: The answering-cord lamp should flash. Operate the typing key to the HOME position and the lamp should go out.

Disconnect Test

- 3.09 At POS B: Operate the LINE 1 key to the DISC position.
- 3.10 At POS A: The answering-cord lamp should light steadily. Remove the plug from the L1 jack. The lamp should go out.

Call to POS B

- 3.11 At POS A: Insert the plug of the CALL cord in the L1 jack. The calling-cord lamp should light and the teletypewriter should not respond to typing from its keyboard. Operate the RING key for approximately two seconds.

- 3.12 At POS B: The L1 lamp should light as long as the RING key is held operated. Operate the LINE 1 key to the CALL position. The teletypewriter should run closed.

Hold Test

- 3.13 At POS B: Operate the TTY key to the LINE 2 position and then restore it to the LINE 1 position.
- 3.14 At POS A: The teletypewriter should continue to run closed and the calling-cord lamp should not light.

Disconnect Test

- 3.15 At POS B: Operate the LINE 1 key to the DISC position.
- 3.16 At POS A: The calling-cord lamp should light steadily. Remove the plug from the L1 jack. The lamp should go out.

(B) Test of Line 2

- 3.17 At POS B: Operate the TTY key to LINE 2.
- 3.18 Repeat 3.02 to 3.16 inclusive substituting the L2 jack and ANS 2 lamp for the L1 jack and ANS 1 lamp at POS A, and the L2 lamp and LINE 2 key for the L1 lamp and LINE 1 key at POS B.

Restoring Equipment to Service

- 3.19 At POS B: Operate the TRNS (transfer) key to the OPR position. Insert the CALL plug into an idle intertoll trunk circuit. The position teletypewriter should respond to typing from its own keyboard. Remove the plug from the idle intertoll trunk circuit and restore all position keys and equipment to normal.
- 3.20 At POS A: Restore all position keys and equipment to normal.

4. REPORTS

- 4.01 Enter the required record of these tests on the proper forms.