

TEN-PARTY TERMINAL PER LINE REVERTING CALL SELECTORS OPERATION TESTS USING DIAL HAND TEST SET AND TEST CIRCUIT SD-30998-01 STEP-BY-STEP SYSTEMS

1. GENERAL

1.01 This section describes a method of testing the operating features of 10-party terminal per line reverting call selectors using the SD-30998-01 test circuit in step-by-step offices, arranged for extended range subscriber loops.

1.02 This section is reissued to incorporate material from the addendum in its proper location. In this process marginal arrows have been omitted.

1.03 At least one reverting call switch should be tested with the emergency reverting call interrupter transfer key operated, in order to check both the regular and the emergency interrupter circuits.

1.04 All keys and jacks referred to are located on the test set unless otherwise specified.

1.05 In performing these tests, the particular ringing interruptions received above codes 1, 2, and 3 may vary ("R" wiring or "S" wiring of SD-31344-01 or use of No. 806D power plant). Accordingly, it will be necessary for the tester to determine the codes applicable for the particular office from the power ringing circuit drawings or other office records.

1.06 Lettered Steps: The letters a, b, c, etc, are added to a step number to indicate that the steps cover an action which

may or may not be required, depending on local conditions. The conditions under which a lettered step or series of steps should be made are given in the action column and all steps governed by the same condition are designated by the same letter. When a condition does not apply, the associated steps should be omitted.

1.07 These tests should preferably be made during periods of light traffic.

1.08 The test equipment specified in this section is designed to apply proper marginal tests (simulated critical circuit conditions) when the circuit under test and the test equipment have an applied voltage of 48.5 to 50. In those offices where power plants are normally operated at more than 50 volts, the battery voltage should be reduced and maintained within the required limits while the tests are being made.

2. APPARATUS

2.01 Test circuit, SD-30998-01.

2.02 No. 1011G dial hand test set equipped with a W2CL cord, a No. 471A jack, and a No. 240A plug (2W39A cord).

2.03 Patching cord - P3C cord, 10 feet long, equipped with a No. 310 plug and a No. 240A plug (3P2A cord).

3. PREPARATION

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
1	Connect dial hand test set to DL jack	
2	Insert No. 310 plug of patching cord into TST jack	

4. METHOD

Test of Ringing Codes - Pretrip and Trip Tests

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
3	With dial hand test set switch in MON position and cord switch in ON position - Insert the No. 240 plug of the patching cord into selector test jack	SL lamp does not light <u>Note:</u> If SL lamp is lighted, proceed to another selector, or delay test until lamp is extinguished.

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<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
4	Operate dial hand test set switch to TALK position	SL lamp lighted
5	Dial code 11	Selector steps to terminal dialed
6	Operate dial hand test set switch to MON position	Test bell rings (or lamp lights) to indicate ringing code dialed
7	Operate and release the PT key during a ringing cycle	Ringng continues
8	Operate and release TP key during a silent interval	Selector is released SL lamp extinguished
9	Operate dial hand test set switch to TALK position	SL lamp lighted
10	Dial code 22	Switch steps to terminal dialed
11	Operate dial hand test set switch to MON position	Test bell rings (or lamp lights) to indicate ringing code dialed
12	Operate and release TP key during a ringing cycle	Selector is released SL lamp extinguished

Test of Reverting Ringing Codes

13	Operate dial hand test set switch to TALK position	SL lamp lighted
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Calling and Called Party Codes

14	Dial code 63	Selector steps to terminal dialed
15a	If CO key is provided - Operate dial hand test set switch to MON position Operate RCO key	Test bell rings on tip side of line to indicate ringing code and revertive call ringing
16a	Operate TCO key	Test bell rings on ring side of line to indicate ringing code and revertive call ringing
17b	If CO key is not provided - Operate dial hand test set switch to MON position	Lighted lamps indicate proper code dialed
18	Operate and release TP key during silent interval	Selector is released SL relay extinguished
19	Repeat steps 13 through 18 using code 98	

Calling Party Code and Revertive Ringing

20	Repeat steps 13 through 18 using codes 74, 78, 85, and 89	
21c	If no further tests are to be performed on this switch - Remove the No. 240A plug from the selector test jack	
22	When tests are completed - Restore keys and disconnect cords	