

8-PARTY 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 the 8-party reverting call selectors using the SD-30998-01 test circuit in the step-by-step and No. 360A community dial offices, which provide extended range subscriber lines.

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 emergency interrupter circuits.

1.04 When testing selectors arranged for 1400-ohm or 1500-ohm maximum external subscriber loop, any ringing trip relays which fail on the pre-trip or trip test (test set resistance values) shall be readjusted mechanically and electrically to meet the requirements specified in Sections 040-803-701 and 040-236-701 and in the circuit requirement table. Repeat the test and if the relay continues to fail, operate the test set keys as indicated for readjust resistance values, and change the tension in the No. 1 spring as required.

1.05 All keys, jacks, and lamps are located on the test circuit, unless otherwise specified.

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

1.07 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. Where a condition does not apply, the associated steps should be omitted.

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 consisting of a W2CL cord, one No. 471A jack, and one No. 240A plug (2W39A cord) (or equivalent).

2.03 Patching cord - P3H (or P3C) cord, 10 feet long, equipped with a No. 310 plug and a No. 240A plug (3P2A cord) (or equivalent).

2.04 KS-6320 orange stick.

3. PREPARATION

STEP

ACTION

VERIFICATION

- 1 Connect dial hand test set to DL jack
- 2 Insert No. 310 plug of patching cord into TST jack

4. METHOD

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|---|--|---|
| 3 | Connect No. 240A plug of patching cord to selector test jack | SL lamp does not light |
| 4 | Operate SUP key | |
| 5 | Operate dial hand test set switch to TALK position | SL lamp lighted |
| 6 | Dial code 11 | Selector steps to terminal dialed |
| 7 | Operate dial hand test set switch to MON position | R- bell rings one-ring code (or -R lamp is lighted) |
| 8 | Operate and restore PT key during ringing cycle | R- bell continues to ring (or -R lamp is lighted) |

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<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
9a	When 67-volt trip battery is used - Operate T key	
10	Operate and restore TP key during silent interval	Selector releases SL lamp extinguished
11	Operate dial hand test set switch to TALK position	SL lamp lighted
12	Restore T key (if used)	
13	Dial code 45	Selector steps to terminal dialed
14	Operate dial hand test set to MON position	R- bell rings (or -R lamp is lighted) on 2-ring code T+ bell rings (or +T lamp is lighted) on the one-ring code <u>Note:</u> Check that first ring is full-code ring in order to test pickup feature.
15	Operate and restore TP key during ringing interval	Selector releases SL lamp is extinguished
16	Operate dial hand test set switch to TALK position	SL lamp lighted
17	Dial code 14	Selector steps to terminal dialed
18	Operate dial hand test set switch to MON position	R- bell rings (or -R lamp lighted) on one-ring code T+ bell rings (or +T lamp lighted) on one-ring code
19	Operate and restore TP key during ringing interval	Selector releases SL lamp extinguished
20	Operate dial hand test set switch to TALK position	SL lamp lighted
21	Dial code 88	Selector steps to terminal dialed
22	Operate dial hand test set switch to MON position	T+ bell rings (or +T lamp is lighted) on 2-ring code
23	Operate and restore TP key during ringing interval	Selector releases SL lamp extinguished
24	Operate dial hand test set switch to TALK position	SL lamp lighted
25	Dial code 67	Selector steps to terminal dialed
26	Operate dial hand test set switch to MON position	R+ bell rings (or +R lamp lighted) on 2-ring code T- bell rings (or -T lamp lighted) on 2-ring code
27	Operate and restore TP key during ringing interval	Selector releases SL lamp extinguished
28	Operate dial hand test set switch to TALK position	SL lamp lighted
29	Dial nonworking code (99)	Selector steps to terminal dialed
30	Operate dial hand test set switch to MON position	Selector releases SL lamp is extinguished

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
31	Restore SUP key	
32b	Should trip relay require adjusting - Proceed as indicated below Otherwise disconnect from selector test jack	

Adjusting Method

33	Operate ADJ key	
34	Proceed as in steps 4 through 15 except in step 10 operate PT key instead of TP where 67-volt trip battery is used	

Note: Provides trip and pre-trip adjust values of resistance to trip relays in order to check mechanical and electrical adjustment. An attempt should be made to meet pre-trip test and trip test in both ringing and silent intervals. However, if switch meets the pre-trip test and either trip test, it may be considered satisfactory. When readjusting trip relays, block B relay operated. Trip relay may be released after each operation by momentarily opening make first springs with orange stick.

35c	If no further tests are to be made - Remove plug from selector test jack Restore all keys and remove remaining cords	
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