

REVERTING CALL SELECTORS
OPERATION TESTS
USING TEST SET SD-90469-02 (J94710A) AND TEST LINE CIRCUIT SD-32198-01
STEP-BY-STEP SYSTEMS

1. GENERAL

1.01 This section describes a method of testing reverting call selectors using the SD-90469-02 (J94710A) test set and the SD-32198-01 connector test line circuit in No. 350A step-by-step and No. 360A community dial offices, when the visual signal option is provided in the test line circuit.

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 subscribers loop, any ring trip relays which fail on the pre-trip or trip test (test set, test 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 requirements table. Repeat the test and if the relay continues to fail, operate the test set keys as indicated in Adjusting Method to apply the test set readjust resistance values, and change the tension in the No. 1 spring as required.

1.05 All keys and jacks referred to are located on test set, unless otherwise specified.

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 upon 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 If the RING key is of the nonlocking type, hold the key operated until directed to restore it.

1.09 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 set - J94710A (SD-90469-02).

2.02 Test line circuit - SD-32198-01.

2.03 Patching cord - P2J cord, 9 feet long, equipped with two No. 310 plugs (2P9A cord) (for connecting battery and ground to the test set).

2.04 Testing cord - W2M cord, 9 feet long, equipped with one No. 310 plug (2W12A cord) (for connecting battery and ground to the test set when battery and ground jack is not provided).

2.05 Patching cords - three P3E cords, 6 feet long, equipped with two No. 310 plugs on each (3P7A cord) (for connecting GEN, TL, and C jacks of test set to test line).

2.06 Patching cord - P3H (or P3C) cord, 10 feet long, equipped with one No. 310 plug and one No. 240A plug (3P2A cord) (for connecting selector test jack to the test set).

2.07 KS-6320 orange stick (for use in Adjusting Method).

<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
12	Restore RING key	
13	Operate and restore the DL ST key	SL lamp lighted
14	Dial a reverting call code that will give a long ring on the ring side	Selector steps to terminal dialed
15	Operate RING key	RR lamp lighted steadily or flashes
16	Operate TP BT key and restore it to the ID position in the silent interval	Selector releases RR lamp extinguished SL lamp extinguished
17	Restore RING key	
18	Operate and restore DL ST key	SL lamp lighted
19	Dial the remaining codes listed in chart in order to make a complete test of the selector	
20	Operate RING key	C or RR lamp lighted steadily or flashes to indicate ringing received
21	Operate TP BT key and restore it to the ID position in the ringing interval	Selector releases SL lamp extinguished C or RR lamp extinguished
22	Restore RING, LP, and ID keys	

Test of Nonworking Code

23c	If the office is equipped with a non-working code - Repeat steps 5, 6, and 7	SL lamp lighted
24c	Dial a code that will step selector to a nonworking terminal	Selector steps to terminal dialed
25c	Operate RING key	Selector releases SL lamp extinguished
26c	Restore RING, LP, and ID keys	

Additional Tests for Selectors Having Two Trip Relays

27	Operate ID key	
28	Operate and restore DL ST key	SL lamp lighted
29	Dial a code that will ring on the tip side	Selector steps to terminal dialed
30	Operate RING key	C lamp lighted steadily or flashes
31	Restore and reoperate ID key during a ringing interval	C lamp extinguished and relighted
32	Operate TP BT key during silent interval	Selector releases SL lamp extinguished C lamp extinguished

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<u>STEP</u>	<u>ACTION</u>	<u>VERIFICATION</u>
33	Restore RING, LP, and ID keys	
34d	Should the trip relay require adjusting - Proceed as indicated in Adjusting Method, otherwise disconnect from the selector test jack	
<u>Adjusting Method</u>		
35	Connect T jack to selector test jack	
36	Operate T key then operate ID key	
37	Restore and reoperate ID key Restore T key	<p><u>Note:</u> Provides the trip and pre-trip ad- just values of resistance to the trip relays in order to check the mechanical and electrical adjustment. An attempt should be made to meet the pre-trip test and to meet the trip test in both ringing and silent intervals. How- ever, if a switch meets the pre-trip test and either trip test, it may be considered satis- factory. When readjusting trip relays, block the B relay operated. The trip relay may be released after each operation by opening the make first springs with an orange stick.</p>
38	Proceed as in steps 6 through 17	C or RR lamp lighted steadily or flashes to indicate ringing received
39e	If no further tests are to be made - Remove plug from selector jack Restore all keys and remove remaining cords	