

DIAL LONG LINE CIRCUITS
SD-96589-01—96590-01—96591-01
TESTS USING TEST POSITION SD-96594-01

1. GENERAL

1.01 This section provides a method of testing the dial long line circuits using the associated test position. It also provides a procedure for taking the equipment out of service and the installation of a new unit.

1.02 This section is reissued for the following reasons.

- (a) Revise Test A
- (b) Revise Fig. 1.

This reissue does not affect the Equipment Test List.

1.03 †Jacks other than those used for LOOP and LEAK pulsing on test position are for use in conjunction with circuit requirement tables listed in related SD for relay maintenance purposes.‡

1.04 The following tests are covered.

A. Loop Pulsing Test: The loop pulsing test is made to check that the percent of break is below the specified maximum limit. **2**

B. Leak Pulsing Test: The leak pulsing test is made to check that the percent of break is above the specified minimum limit. **2**

1.05 In testing, faulty unit is inserted in the number 10 slot on the shelf which is set up for making pulse repeating tests.

1.06 Access to test position is through the IN and OUT jacks. Battery for the test sets is obtained from the A and B jacks.

2. APPARATUS

All Tests

- 2.01** Pulse repeating test set J34720A (SD-31667-01).
- 2.02** Pulsing test set J34717A (SD-31481-01).
- 2.03** Patching cords, two P2J cords, each 6 feet long, equipped with two 310 plugs (2P9B cords).
- 2.04** Patching cord, †P3E cord, 2 feet long, equipped with two 310 plugs (3P7D cord).‡
- 2.05** Patching cords, two P3E cords, each 6 feet long, equipped with two 310 plugs (3P7A cords) (for input or output connections or both).

3. PREPARATION

STEP	ACTION	VERIFICATION
All Tests		
1	Obtain a spare unit.	
2	Determine condition of line (busy or idle).	Ground at TST jack indicates busy.
3	Remove unit from shelf.	

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STEP	ACTION	VERIFICATION
4	Insert spare unit in vacated shelf.	
5	Place unit under test in the test position.	
6	Connect pulse repeating test set to pulsing test set as shown in Fig. 1.	
7	Connect pulsing test set to relay under test as shown in Fig. 1.	

4. METHOD

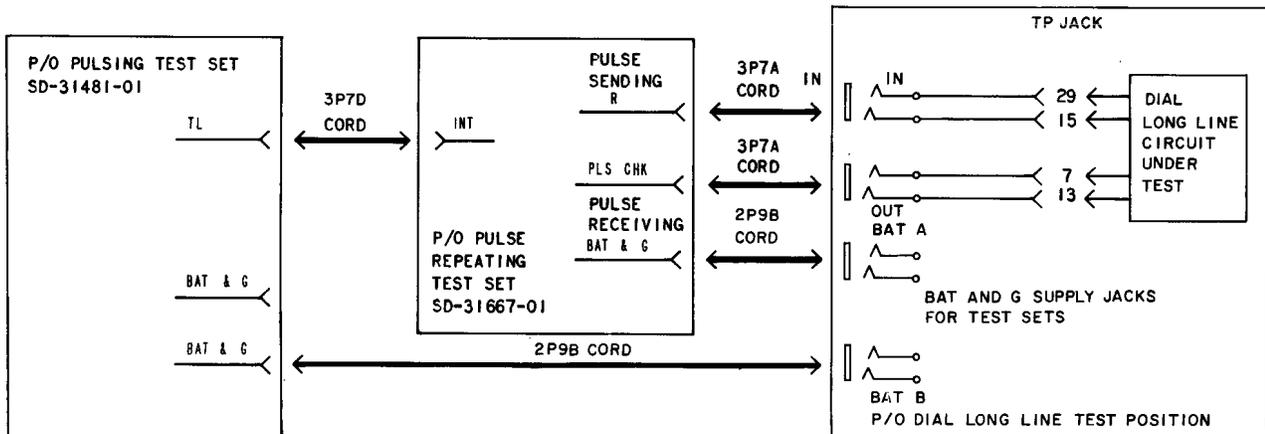
STEP	ACTION	VERIFICATION
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A. Loop Pulsing Test

8	Set key selector on pulse repeating test set to apply 2400 ohms in series with pulsing contacts of pulsing test set.	
9	Read percent break on output meter.	◆Maximum break on output meter is 75 percent.◆

B. Leak Pulsing Test

8	Set key selector on pulsing test set to apply two resistors (10250 ohms, 5050 ohms) and a 2.16 μF capacitor in parallel with pulsing contacts of pulsing test set (LEAK A key).	
9	Read percent break on output meter.	◆Minimum break on output meter is 38 percent.◆



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Fig. 1—Test Equipment Connections