

INCOMING LOOP DIALING PULSE CORRECTING REPEATERS AND TRUNK CIRCUITS

PULSING TESTS

STEP-BY-STEP OFFICES

1. GENERAL

1.01 This section describes the procedure of applying the pulsing tests operation method to incoming loop dialing pulse correcting repeaters and trunk circuits. These tests are based on the use of the pulsing test set J34717A (SD-31481-01) and the 35-type current flow test set.

1.02 It is reissued to:

- Update the format to conform to Pacific Bell's standards.
- Include the appropriate legend on Page 1 in accordance with System Instruction (SI) 178.

Note: Marginal arrows used to denote changes are omitted.

1.03 The test consists of pulsing the repeater or trunk circuit and observing the operation of the associated selector to determine whether or not the repeater or trunk circuit passes the test. The services of an assistant tester is required. Since the results of this test depend upon the operation of the selector, the selector equipment should be in standard condition. Therefore, if a failure is encountered, it can be traced to the repeater or trunk circuit. No attempt shall be made to apply special adjustments to the selector to make it operate with the equipment under test.

1.04 When tests are being made on a routine basis, they should preferably be made during periods of light traffic.

1.05 Circuits on which out-of-service failures are encountered shall be held busy until the trouble is cleared.

2. APPARATUS

2.01 Pulsing test set J34717A (SD-31481-01).

2.02 35-type current flow test set.

2.03 No. 36B test set (remote control).

2.04 Two dial hand test sets (1011G or equivalent).

2.05 One 2P9B cords (P2J cord, equipped with No. 310 plugs), where battery jacks are available.

2.06 One 2W12A cords [or equivalent] (W2M cord, equipped with a No. 310 plug and two No. 59 and two No. 108 cord tips), where battery jacks are not available.

2.07 One 3P7A cord (P3E cord) equipped with two 310 plugs.

2.08 One 3P2A (P3H) cord equipped with one No. 310 plug and one No. 240A plug.

3. PREPARATION

3.01 If a battery supply jack is available, connect the P2J cord to BAT-G jacks of the pulsing set and pulse repeating test set.

3.02 If a battery supply jack is not available, connect the plug of the W2M (or equivalent) cords to BAT-G jacks of the pulsing set and pulse repeating test set. Connect the No. 59 cord tips of the white (tip) conductor to a spare 48-volt battery fuse. Where a spare 48-volt battery fuse is not available, connect the No. 59 cord tips of the white (tip) conductors to the equipment side of a battery fuse in service. Connect the red (sleeve) conductor to ground. In no case should the fuse selected exceed 5 amperes.

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Note: To avoid possible grounding of the battery supply lead, connect the cord to the test set first and, when disconnecting, remove the cord from the test set last.

- 3.03** Connect the No. 36B remote control set to jacks A and B of the pulsing test set. The ridged side of the plug should be to the left.
- 3.04** Before making any tests, the trunks should be made busy at the originating end in the approved manner.
- 3.05** Connect one end of the P3E cord to the test BATT and GRD jack of the current flow test set and short the tip and ring of the 310 plug at the other end.
- 3.06** All sliders of the current flow test set shall be to the extreme right and all keys unoperated.
- 3.07** Connect the 310 plug of the P3H cord to the T and R jack of the current flow test set and insert the 240A plug in the test jack of the equipment under test.

Note: When testing SD-31542-01 insert the 240A plug in the talk jack of the repeater.

4. METHOD

- 4.01** Operate key No. 1 of the current flow test set.
- 4.02** Refer to Table A to obtain milliamperes current flow required for equipment under test.

- 4.03** Move the No. 1 sliders of the current flow test set to obtain current flow shown in Table A.
- 4.04** Remove the short from the tip and ring of the 310 plug and insert the plug in the TL jack of the pulsing test set.
- 4.05** Operate the LKC key of the pulsing test set. The resistance keys of the pulsing set should be unoperated.
- 4.06** Momentarily depress the remote control LP key and verify that the selector steps smoothly to the ninth level and cuts in.
- 4.07** Momentarily depress the remote control RLS key and verify that the selector releases.
- 4.08** Momentarily depress the remote control LK key and verify that the selector steps smoothly to the ninth level and cuts in.
- 4.09** Momentarily depress the remote control RLS key and verify that the selector releases.
- 4.10** Remove the 240A plug from the equipment under test.
- 4.11** Request the equipment restored to service at the originating office.

5. REPORTS

- 5.01** The required report of these tests shall be entered on the proper form.

TABLE A

CIRCUIT	RELAY AND OPTION	TYPE OF PULSING	ELECTRICAL REQUIREMENT
ES-30484-01 ES-30527-01 ES-30537-01 ES-30549-01		Loop	14.6 MA
SD-31542-01		Loop	8.7 MA
SD-31453-01 SD-31648-01		Loop	14.6 MA
SD-31929-01	(A) 221 FAE "D" Option	Loop	See Note
		Batt. and Grd.	21.8 MA
	(A) 221 FAF "E" Option	Loop	21.8 MA
		Batt. and Grd.	17 MA

Note: 35-type current flow test set not used. Use pulsing test set with 1400 Loop — LK-C condition.