

BELL SYSTEM PRACTICES  
Plant Series

This Practice Released on:.....

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SECTION 226-508-900PT

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## OPERATION TEST OF INTEROFFICE TRUNKS

USING LINE FINDER TEST SETS SD-31246-01, SD-31258-01, AND SD-31456-01

### STEP-BY-STEP SYSTEMS

#### 1. GENERAL

1.01 This section describes a method of testing the operating features of interoffice trunks in step-by-step offices using line finder test sets SD-31246-01, SD-31258-01 or SD-31456-01.

1.02 This section has been reissued to include the use of test sets SD-31246-01 and SD-31456-01 where these sets are provided.

1.03 Tests of interoffice trunks are to be made with these test sets in offices where regular trunk test sets are not available or where it is more convenient to use test set SD-31258-01 or SD-31456-01 because of their remote control features.

1.04 The tests covered are:

(A) Maximum Loop - Minimum Leak Test.

(B) Maximum Leak - Minimum Loop Test.

#### 2. APPARATUS

2.01 Line finder test sets SD-31258-01, SD-31246-01, or SD-31456-01.

2.02 One P3C cord equipped with a No. 110 plug and a No. 240-A plug.

2.03 One No. P3E cord or one No. W2M cord equipped with one No. 110 and two No. 59 and two No. 90 cord tips or equivalent for battery supply to test set.

2.04 One operator's telephone set.

2.05 One No. 40-A remote control set when desired, for use with test sets SD-31258-01 or SD-31456-01.

#### 3. PREPARATION

3.01 By means of the P3E or W2M cord, connect the battery jack of the test set to a 48-V battery supply.

NOTE: If a battery supply jack is not available, insert the plug of the W2M cord into the Batt. Jack of the test set and connect the white conductor of this cord to a spare 48-volt battery fuse or to the equipment side of a battery fuse in service, and the red conductor to ground. In no case should the fuse selected exceed 5 amperes.

3.02 Connect the operator's telephone set to the Tel. Jacks of the test set.

3.03 Connect the P3C cord to the "PL" jack of the test set.

#### 4. METHOD

(A) Maximum Loop - Minimum Leak Test

4.01 Insert the 240-A plug of the P3C cord into the test jack of the repeater under test.

4.02 If the repeater is busy the "BY" lamp will light, in which case the No. 240-A plug should be removed from the test jack of the repeater.

4.03 If using test set SD-31258-01 or SD-31456-01 and the trunk is idle, operate the RP, LP, and TRS keys and note that the ST lamp is lighted.

4.04 If using test set SD-31246-01 and the trunk is idle operate the LP key and note that the BY lamp is lighted.

4.05 Dial the test number in the distant office.

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After the dialing is completed, the REV or R lamp should flash and interrupted tone should be heard in the receiver.

NOTE: If a trunk is found on which weaker tone is heard than that of the other trunks in the group, it is an indication of transmission trouble on the trunk, usually open talking condensers on the repeater.

4.06 Restore the RP key of SD-31258-01 or SD-31456-01, or the LP key of SD-31246-01 and note that the REV and ST or the R and BY lamps are extinguished and tone is no longer heard in the receiver. Restore the LP key and remove the No. 240-A plug from the test jack of the repeater.

### (B) Maximum Leak - Minimum Loop Test

4.07 Proceed as in 4.01 to 4.06, except operate the "LX" instead of the "LP" key.

## 5. REMOTE CONTROL SET 40-A

5.01 If it is desired to use the remote control feature in connection with tests made with test sets SD-31258-01 or SD-31456-01, connect the grey, black, and red plugs of the 40-A set to the G, BL, and R jacks of the test set in addition to the other preparations covered under "Preparation."

5.02 Operate the RC, RP, and LP keys of the test set.

5.03 Insert the 240-A plug in the test jack of the repeater under test. If the trunk is busy, the BY lamp will light in which case the No. 240-A plug should be removed from the test jack of the repeater.

5.04 If the trunk is idle, operate the ST (No. 1) key of the 40-A set; the ST lamp should light. Dial the test number in the distant office by means of the dial on the 40-A set. After dialing is completed, the "REV" lamp should flash and interrupted tone should be heard in the receiver.

5.05 Operate the RLS (No. 3) key of the 40-A set. Note that the REV and ST lamps are extinguished and tone is no longer heard in the receiver.

### (B) Maximum Leak - Minimum Loop Test

5.06 Proceed as described in paragraphs 5.01 to 5.05, except operate the "LK" key in place of the "LP" key.

## 6. REPORTS

6.01 The required record of these tests should be entered on the proper form.