

OPERATION TESTS
PLUG, POSITION AND TRUNK CIRCUITS
USING TEST SET J64724
TOLL SWITCHBOARD NO. 1B

1. GENERAL

1.01 This section describes methods of testing the plug, position and trunk circuits associated with toll switchboard No. 1B. The tests are based on the use of test set J64724 (SD-64735-01) and are as follows:

- (A) Trunks from No. 1 CLR board in the same building, without call distribution.
- (B) Trunks from No. 3 or No. 3C CLR board in the same building, without call distribution.
- (C) Trunks from manual or DSA boards, without call distribution.
- (D) Plug and position circuits associated with call distribution equipment.
- (E) Trunks from outlying toll offices, composite signaling, without call distribution.

1.02 These tests should be made only during periods of light traffic.

1.03 Tests (A) and (B) are made from the No. 1, No. 3 or No. 3C CLR board and require the assistance of a person at the No. 1B toll switchboard, preferably an assistant tester.

1.04 Tests (C), (D) and (E) are made from jacks located at the relay rack and also require the assistance of a person at the No. 1B toll switchboard.

2. APPARATUS

Tests (A), (B), (C), (D) and (E)

2.01 Plug and Position Test Set J64724 (SD-64735-01).

Test (A)

2.02 Three P3E cords each equipped with two No. 310 plugs (3P7A).

2.03 P3K cord equipped with two No. 310 (or No. 110) plugs (3P15A).

Test (B)

2.04 Three P3E cords each equipped with two No. 310 plugs (3P7A) (for No. 3 CLR boards equipped with 49 type jacks) or three P3F cords each equipped with one No. 310 (or No. 110) plug and one No. 309 (or No. 109) plug (3P12E) (for No. 3 or No. 3C CLR boards equipped with 92 type jacks).

2.05 Two P3K cords each equipped with two No. 310 (or No. 110) plugs (3P15A) (for No. 3 CLR boards equipped with 49 type jacks) or two P3L cords each equipped with one No. 310 (or No. 110) and one No. 309 (or No. 109) plug (3P16A) (for No. 3 or No. 3C CLR boards equipped with 92 type jacks).

Test (C)

2.06 Three P3E cords each equipped with two No. 310 plugs (3P7A).

2.07 Two P3K cords each equipped with two No. 310 (or No. 110) plugs (3P15A).

Test (D)

2.08 Four P3E cords each equipped with two No. 310 plugs (3P7A).

2.09 P3K cord equipped with two No. 310 plugs (or No. 110) (3P15A).

Test (E)

2.10 Four P3E cords each equipped with two No. 310 plugs (3P7A).

2.11 Two P3K cords each equipped with two No. 310 (or No. 110) plugs (3P15A).

3. PREPARATION

Tests (A), (B), (C), (D) and (E)

3.01 Using a P3E or a P3F cord, patch jack TRK of the plug and position test set to jack TT in the OGT multiple or at the relay rack.

3.02 Using a P3K or a P3L cord, patch jack 24V of the plug and position test set to a 24V battery supply jack.

Note: To avoid grounding 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 Using a P3E or a P3F cord, patch jack AC of the plug and position test set to an AC supply jack.

Tests (B), (C) and (E)

3.04 Using a P3K or a P3L cord, patch jack 48V of the plug and position test set to a 48V battery supply jack, (see note in 3.02).

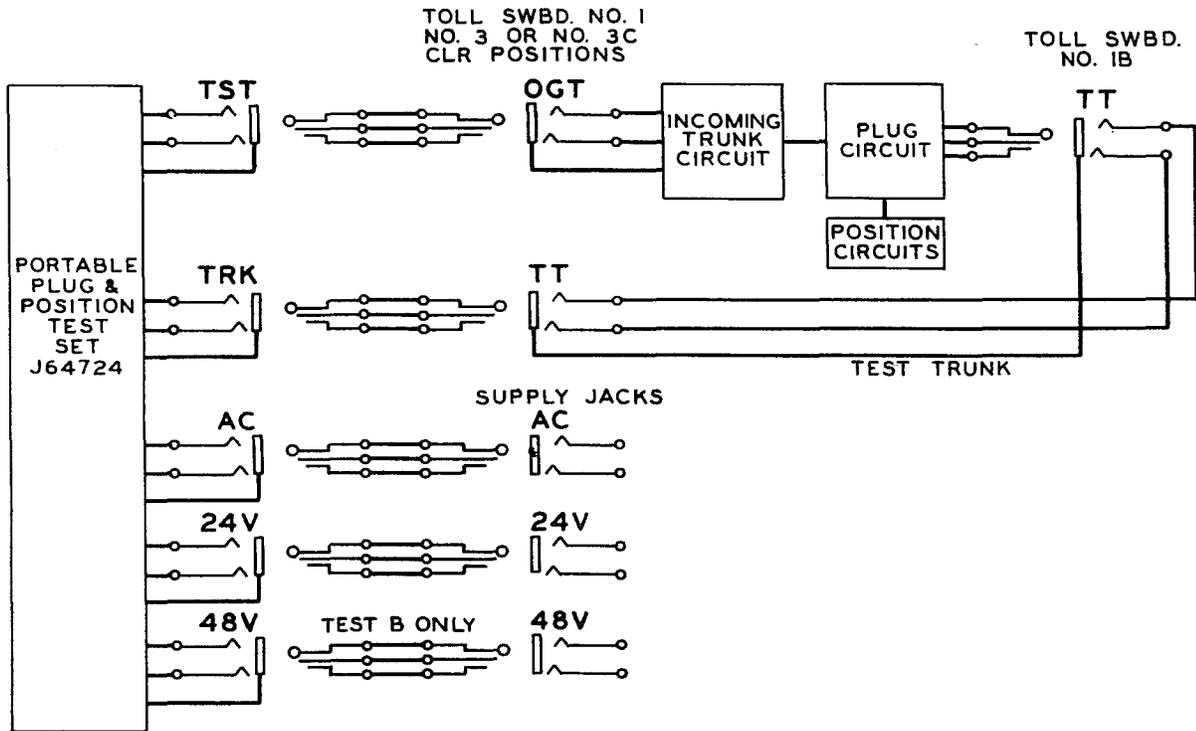


Fig. 1 - Test (A) Trunks from No. 1 CLR Board in Same Bldg. - Without Call Distribution
 Test (B) Trunks from No. 3 or No. 3C CLR Board in Same Bldg. - Without Call Distribution

4. METHOD

Test (A) - Trunks from No. 1 CLR Board in the Same Building, Without Call Distribution (See Fig. 1)

4.01 If some of the trunk circuits at the position under test are arranged for call distribution, operate the POS BY key. If a POS BY key is not provided, block non-operated the corresponding position occupied and position idle relays of the position indicator circuit if provided. Trunk circuits which are not arranged for call distribution or position indicating should be removed from service if traffic conditions so require.

At the No. 1B Switchboard

4.02 Connect the operators telephone set to the position.

At the No. 1 CLR Board

4.03 Connect the telephone set to jacks A and B of the test set. Insert one end of a PSE cord into the TST jack of the plug and position test set and with the free end of this cord, test the trunk for busy.

4.04 If no click is heard in the test receiver, it indicates that the trunk is idle. In this case, insert the cord into the OGT jack of the trunk.

4.05 Operate the ITRK and the CLR keys. Note that three zips are heard.

At the No. 1B Switchboard

4.06 Note that three zips are heard. Observe that the CN lamp flashes at 120 IPM (assuming that the position is idle). Check that the talking circuit to the No. 1 CLR board is established.

4.07 Insert the plug associated with the flashing CN lamp into the TT jack.

At the No. 1 CLR Board

4.08 Observe that the PU lamp lights steadily and that the R lamp lights for two seconds.

At the No. 1B Switchboard

4.09 Depress the TEL REL key. Observe that the CN lamp goes out. Check that the talking circuit to the No. 1 CLR board is disconnected.

4.10 Depress the TK key associated with the plug circuit under test. Observe that the CN lamp flashes at 120 IPM. Check that the talking circuit with the No. 1 CLR board is reestablished.

4.11 Depress the TEL REL key. Observe that the CN lamp goes out.

At the No. 1 CLR Board

- 4.12 Operate the RF key momentarily. Observe that the R lamp lights momentarily.
- 4.13 Remove the cord from the OGT jack of the trunk and restore the CLR key. Observe that the PU lamp goes out.

At the No. 1B Switchboard

- 4.14 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the No. 1 CLR Board

- 4.15 Test the trunk for busy. If idle, insert the cord into the OGT jack of the trunk and operate the CLR key. Note that three zips are heard.

At the No. 1B Switchboard

- 4.16 Note that three zips are heard. Observe that the CN lamp flashes at 120 IPM.
- 4.17 Insert the plug associated with the flashing CN lamp into a "reorder" jack.
- 4.18 Depress the TEL REL key. Observe that the CN lamp goes out.

At the No. 1 CLR Board

- 4.19 Note that interrupted tone at the rate of 120 IPM is heard.
- 4.20 Insert the plug of an idle rear cord into the overflow jack associated with OGT jack. Note that the interrupted tone is no longer heard. Observe that the supervisory lamp of the cord circuit flashes at the rate of 120 IPM.
- 4.21 Remove the cord from the OGT jack of the trunk and restore the CLR key. Observe that the supervisory lamp in the cord circuit continues to flash.
- 4.22 Test the trunk for busy. Note that clicks are heard in the test receiver, indicating a busy condition of the trunk.
- 4.23 Remove the cord from the overflow jack.

At the No. 1B Switchboard

- 4.24 Observe that the DC lamp lights. Remove the plug from the reorder jack. Observe that the DC lamp goes out.

At the No. 1 CLR Board

- 4.25 On one of the trunks associated with each No. 1B switchboard position, make the tests covered below in 4.26 to 4.33, inclusive.

- 4.26 Test the trunk for busy. If idle, insert the cord into the OGT jack of the trunk and operate the CLR key. Note that three zips are heard.

At the No. 1B Switchboard

- 4.27 Note that three zips are heard. Observe that the CN lamp flashes at 120 IPM.
- 4.28 Depress the NON RNG key.
- 4.29 Insert the plug associated with the flashing CN lamp into the TT jack.
- 4.30 Depress the TEL REL key. Observe that the CN lamp goes out.

At the No. 1 CLR Board

- 4.31 Observe that the PU lamp lights and that the R lamp does not light.
- 4.32 Remove the cord from the OGT jack and restore the CLR key. Observe that the PU lamp goes out.

At the No. 1B Switchboard

- 4.33 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the No. 1 CLR Board

- 4.34 At the conclusion of the tests, restore all keys and remove all cords.

Test (B) - Trunks from No. 3 or No. 3C CLR Board in the Same Building, Without Call Distribution (See Fig. 1)

- 4.35 If some of the trunk circuits at the position under test are arranged for call distribution, operate the POS BY key. If a POS BY key is not provided, block non-operated the corresponding position occupied and position idle relays of the position indicator circuit if provided. Trunk circuits which are not arranged for call distribution or position indicating should be removed from service if traffic conditions so require.

At the No. 1B Switchboard

- 4.36 Connect the operators telephone set to the position.

At the No. 3 or No. 3C CLR Board

- 4.37 Connect the telephone set to jacks A and B of the test set. Insert one end of the P3E or P3F cord into the TST jack of the plug and position test set and with the free end of this cord, test the trunk for busy.

- 4.38 If no click is heard in the test receiver, it indicates that the trunk is idle. In this case insert the cord into the OGT jack of the trunk.

4.39 Operate the CLR key. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.40 Note that three zips are heard and that the CN lamp flashes at 120 IPM (assuming that the position is idle). Check that the talking circuit to the CLR board is established.

4.41 Insert the plug associated with the flashing CN lamp into the TT jack.

At the CLR Board

4.42 Observe that the PU lamp lights steadily and that the R lamp lights for two seconds.

At the No. 1B Switchboard

4.43 Depress the TEL REL key. Observe that the CN lamp goes out. Check that the talking circuit to the CLR board is disconnected.

At the CLR Board

4.44 Observe that the S lamp goes out.

At the No. 1B Switchboard

4.45 Depress the TK key associated with the plug circuit under test. Observe that the CN lamp flashes at 120 IPM. Check that the talking circuit to the CLR board is re-established.

4.46 Depress the TEL REL key. Observe that the CN lamp goes out.

At the CLR Board

4.47 Operate the RF key momentarily. Observe that the R lamp lights momentarily.

4.48 If the trunk is arranged for non-locked-in recall, operate the RB key momentarily. Observe that the S lamp lights momentarily.

4.49 If the trunk is arranged for locked-in recall, operate the REV BAT key, then operate the RB key momentarily. Observe that the S lamp lights, steadily if the trunk is arranged for locked-in non-flash recall or at 120 IPM if the trunk is arranged for locked-in flashing recall.

4.50 Restore the REV BAT key. Observe that the S lamp goes out.

4.51 Remove the cord from the OGT jack of the trunk and restore the CLR key. Observe that the PU lamp goes out.

At the No. 1B Switchboard

4.52 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the CLR Board

4.53 On one of the trunks associated with each No. 1B switchboard position, make the tests covered below in 4.54 to 4.61, inclusive.

4.54 Test the trunk for busy. If idle, insert the P3E or P3F cord into the OGT jack of the trunk and operate the CLR key. Observe that the S lamp lights and that three zips are heard.

At the No. 1B Switchboard

4.55 Note that three zips are heard and that the CN lamp flashes at 120 IPM.

4.56 Depress the NON RNG key.

4.57 Insert the plug associated with the flashing CN lamp into the TT jack.

4.58 Depress the TEL REL key. Observe that the CN lamp goes out.

At the CLR Board

4.59 Observe that the PU lamp lights and that the R lamp does not light. Observe that the S lamp goes out.

4.60 Remove the cord from the OGT jack of the trunk and restore the CLR key. Observe that the PU lamp goes out.

At the No. 1B Switchboard

4.61 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the CLR Board

4.62 At the conclusion of the tests restore all keys and remove all cords.

Test (C) - Trunks from Manual or DSA Boards, Without Call Distribution (See Fig. 2)

4.63 If some of the trunk circuits at the position under test are arranged for call distribution, operate the POS BY key. If a POS BY key is not provided, block non-operated the corresponding position occupied and position idle relays of the position indicator circuit if provided. Trunk circuits which are not arranged for call distribution or position indication should be removed from service if traffic conditions so require.

At the No. 1B Switchboard

4.64 Connect the operators telephone set to the position.

At the Relay Rack

4.65 Connect the telephone set to jacks A and B of the test circuit. Check the trunk for busy by observing whether the L

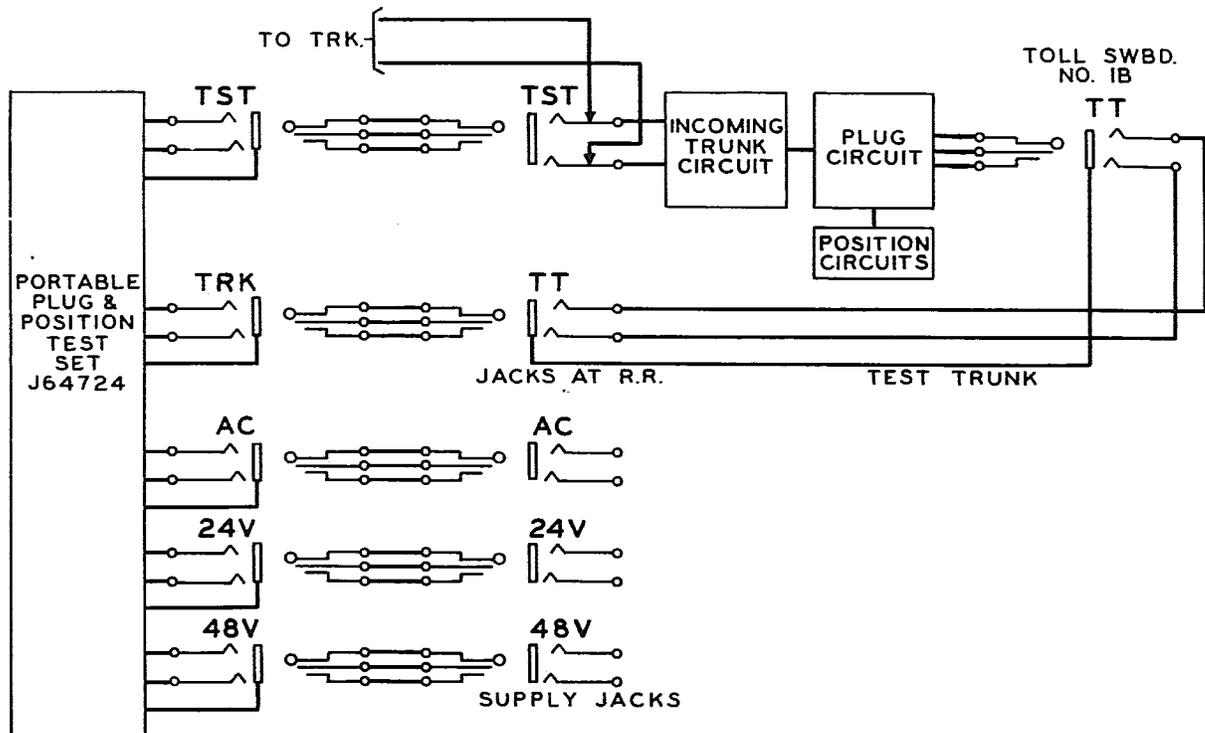


Fig. 2 - Test (C) - Trunks from Manual or DSA Boards Without Call Distribution

4.65 (Continued)

relay is operated, then using a P3E cord, patch jack TST of the plug and position test set to jack TST of the trunk.

4.66 Operate the ITRK and the A BD keys. If the trunk is arranged for reversed battery supervision, operate the REV BAT key. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.67 Note that three zips are heard and that the CN lamp flashes at 120 IPM (assuming that the position is idle). Check that the talking circuit to the relay rack is established.

4.68 Insert the plug associated with the flashing CN lamp into the TT jack.

At the Relay Rack

4.69 Observe that the PU lamp lights steadily and that the R lamp lights for two seconds.

At the No. 1B Switchboard

4.70 Depress the TEL REL key. Observe that the CN lamp goes out. Check that the talking circuit to the relay rack is disconnected.

At the Relay Rack

4.71 Observe that the S lamp goes out.

At the No. 1B Switchboard

4.72 Depress the TK key associated with the plug circuit under test. Observe that the CN lamp flashes at 120 IPM. Check that the talking circuit to the relay rack is re-established.

4.73 Depress the TEL REL key. Observe that the CN lamp goes out.

At the Relay Rack

4.74 Operate the RF key momentarily. Observe that the R lamp lights momentarily.

4.75 If the trunk is arranged for recall, operate the RB key momentarily. Observe that the S lamp lights momentarily.

4.76 Remove the cord from the TST jack of the trunk circuit and restore the A BD key. Observe that the PU lamp goes out.

At the No. 1B Switchboard

4.77 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the Relay Rack

4.78 On one of the trunks associated with each No. 1B switchboard position, make the tests covered below in 4.79 to 4.97, inclusive.

4.79 Check the trunk for busy by observing whether the L relay is operated, then insert the P3E cord into the TST jack of the trunk and operate the A BD key. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.80 Note that three zips are heard and that the CN lamp flashes at 120 IPM.

4.81 Depress the NON RNG key.

4.82 Insert the plug associated with the flashing CN lamp into the TT jack.

4.83 Depress the TEL REL key. Observe that the CN lamp goes out.

At the Relay Rack

4.84 Observe that the PU lamp lights and that the R lamp does not light. Observe that the S lamp goes out.

4.85 Restore the A BD key. Observe that the PU lamp goes out.

At the No. 1B Switchboard

4.86 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the Relay Rack

4.87 Operate the RCL key.

4.88 Operate the A BD key. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.89 Note that three zips are heard and that the CN lamp flashes at 120 IPM.

4.90 Insert the plug associated with the flashing CN lamp into the TT jack.

4.91 Depress the TEL REL key. Observe that the CN lamp goes out.

At the Relay Rack

4.92 Observe that the PU lamp lights and that the R lamp lights for two seconds. Restore the RCL key. Observe that the S lamp goes out.

4.93 Operate the RF key momentarily. Observe that the R lamp does not light. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.94 Note that three zips are heard and that the CN lamp flashes at 120 IPM. Check that the talking circuit is reestablished to the relay rack.

4.95 Depress the TEL REL key. The CN lamp goes out.

At the Relay Rack

4.96 Remove the cord from the TST jack of the trunk and restore the A BD key. Observe that the PU and the S lamps go out.

At the No. 1B Switchboard

4.97 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the Relay Rack

4.98 At the conclusion of the tests, restore all keys and remove all cords.

Test (D) - Plug and Position Circuits Associated with Call Distribution (See Fig. 3)

At the No. 1B Switchboard

4.99 Operate the POS BY key and connect the operators telephone set to the No. 1B position under test. Trunk circuits associated with the position under test which are not on a call distribution basis and which are not arranged for position indicating should be removed from service if traffic conditions so require.

At the Relay Rack

4.100 Connect the telephone set to jacks A and B of the test set. Insert one end of a P3E cord into the MA jack of the plug and position test set and with the free end of this cord, test the plug circuit for busy by touching the tip of the cord to the sleeve of the MB jack. If no click is heard, it indicates that the plug circuit is busy.

4.101 If a click is heard, it indicates that the plug circuit is idle, in which case, insert the free end of the P3E cord into the MA jack.

4.102 Insert one end of another P3E cord into the MB jack of the plug and position test set, then insert the other end into the MB jack of the plug circuit. Note that three zips are heard and that the S lamp lights.

4.103 Operate the ITRK key.

At the No. 1B Switchboard

4.104 Note that three zips are heard and that the CN lamp flashes at 120 IPM (assuming that the position is idle). Check that the talking circuit to the relay rack is established.

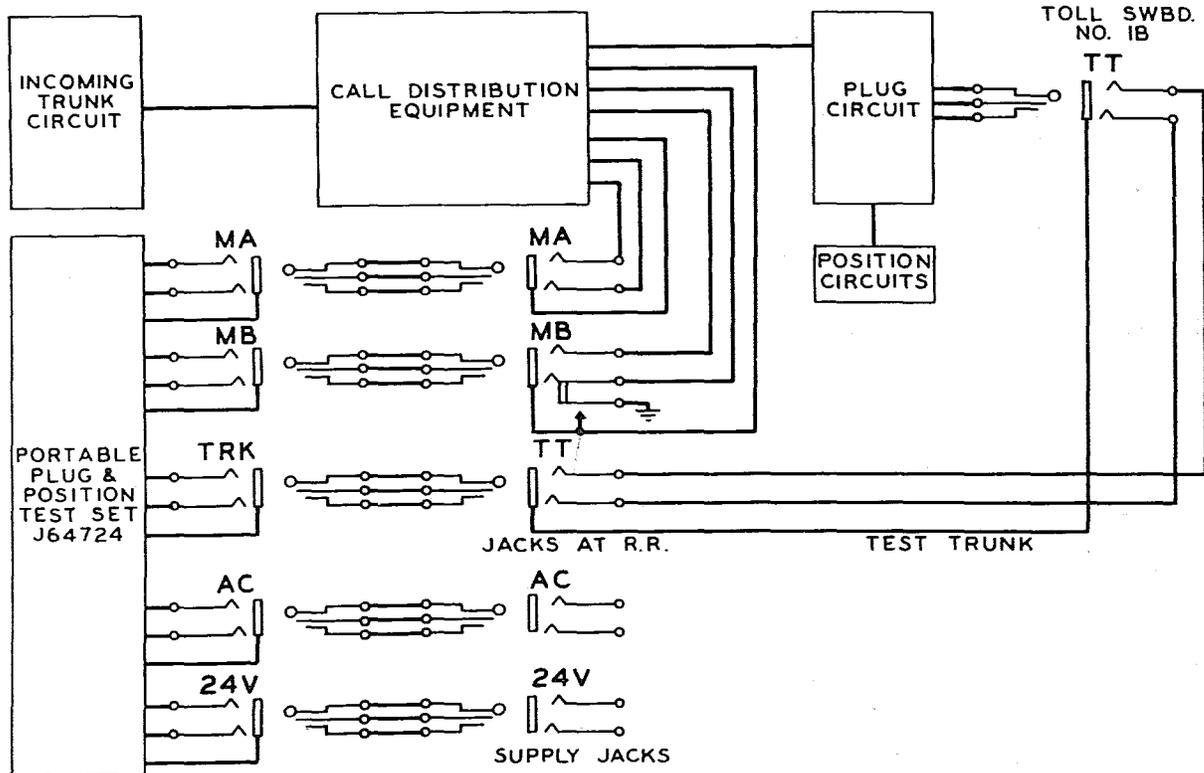


Fig. 3 - Test (D) - Plug and Position Circuits - Call Distribution

4.105 Insert the plug associated with the flashing CN lamp into the TT jack.

At the Relay Rack

4.106 Observe that the PU lamp lights steadily and that the R lamp lights for two seconds.

At the No. 1B Switchboard

4.107 Depress the TEL REL key. Observe that the CN lamp goes out. Check that the talking circuit to the relay rack is disconnected.

At the Relay Rack

4.108 Observe that the S lamp goes out.

At the No. 1B Switchboard

4.109 Depress the TK key associated with the plug circuit under test. Observe that the CN lamp flashes at 120 IPM. Check that the talking circuit to the relay rack is reestablished.

4.110 Depress the TEL REL key. Observe that the CN lamp goes out.

At the Relay Rack

4.111 Operate the RF key momentarily. Observe that the R lamp lights momentarily.

4.112 Remove the cords from the MB and MA jacks of the plug circuit. Observe that the PU lamp goes out.

At the No. 1B Switchboard

4.113 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the Relay Rack

4.114 On one of the trunks associated with each No. 1B switchboard position, make the tests covered below in paragraphs 4.115 to 4.133, inclusive.

4.115 Insert the P3E cords into the MA and MB jacks of the plug circuit. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.116 Note that three zips are heard and that the CN lamp flashes at 120 IPM.

- 4.117 Depress the NON RNG key.
- 4.118 Insert the plug associated with the flashing CN lamp into the TT jack.
- 4.119 Depress the TEL REL key. Observe that the CN lamp goes out.

At the Relay Rack

4.120 Observe that the PU lamp lights and that the R lamp does not light. Observe that the S lamp goes out.

4.121 Remove the cord from the MB jack of the plug circuit. Observe that the PU lamp goes out.

At the No. 1B Switchboard

4.122 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the Relay Rack

4.123 Operate the RCL key.

4.124 Insert the P3E cord into the MB jack of the plug circuit. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.125 Note that three zips are heard and that the CN lamp flashes at 120 IPM.

4.126 Insert the plug associated with the flashing CN lamp into the TT jack.

4.127 Depress the TEL REL key. Observe that the CN lamp goes out.

At the Relay Rack

4.128 Observe that the PU lamp lights steadily, that the R lamp lights for two seconds and that the S lamp goes out. Restore the RCL key.

4.129 Operate the RF key momentarily. Observe that the R lamp does not light. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.130 Note that three zips are heard and that the CN lamp flashes at 120 IPM. Check that the talking circuit to the relay rack is reestablished.

4.131 Depress the TEL REL key. Observe that the CN lamp goes out.

At the Relay Rack

4.132 Remove the cords from the MB and MA jacks of the plug circuit. Observe that the PU and the S lamps go out.

At the No. 1B Switchboard

4.133 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the Relay Rack

4.134 At the conclusion of the tests, restore all keys and remove all cords.

Test (E) - Trunks from Outlying Toll Offices Composite Signaling - Without Call Distribution (See Fig. 4)

4.135 If some of the trunk circuits at the position under test are arranged for call distribution, operate the POS BY key. If a POS BY key is not provided, block non-operated the corresponding position occupied and position idle relays of the position indicator circuit if provided. Trunk circuits which are not arranged for call distribution position indicating should be removed from service if traffic conditions so require.

At the No. 1B Switchboard

4.136 Connect the operators telephone set to the position.

At the Relay Rack

4.137 Connect the telephone set to jacks A and B of the test circuit. Check the trunk for busy by observing whether the A relay is operated. If idle, patch jacks TST and ST of the plug and position test set to jacks TR and ST, respectively, of the trunk, using P3E cords.

4.138 Operate the ITRK and the CX keys. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.139 Note that three zips are heard and that the CN lamp flashes at 120 IPM (assuming that the position is idle). Check that the talking circuit to the relay rack is established.

4.140 Insert the plug associated with the flashing CN lamp into the TT jack.

At the Relay Rack

4.141 Observe that the PU lamp lights steadily and that the R lamp lights for two seconds.

At the No. 1B Switchboard

4.142 Depress the TEL REL key. Observe that the CN lamp goes out. Check that the talking circuit to the relay rack is disconnected.

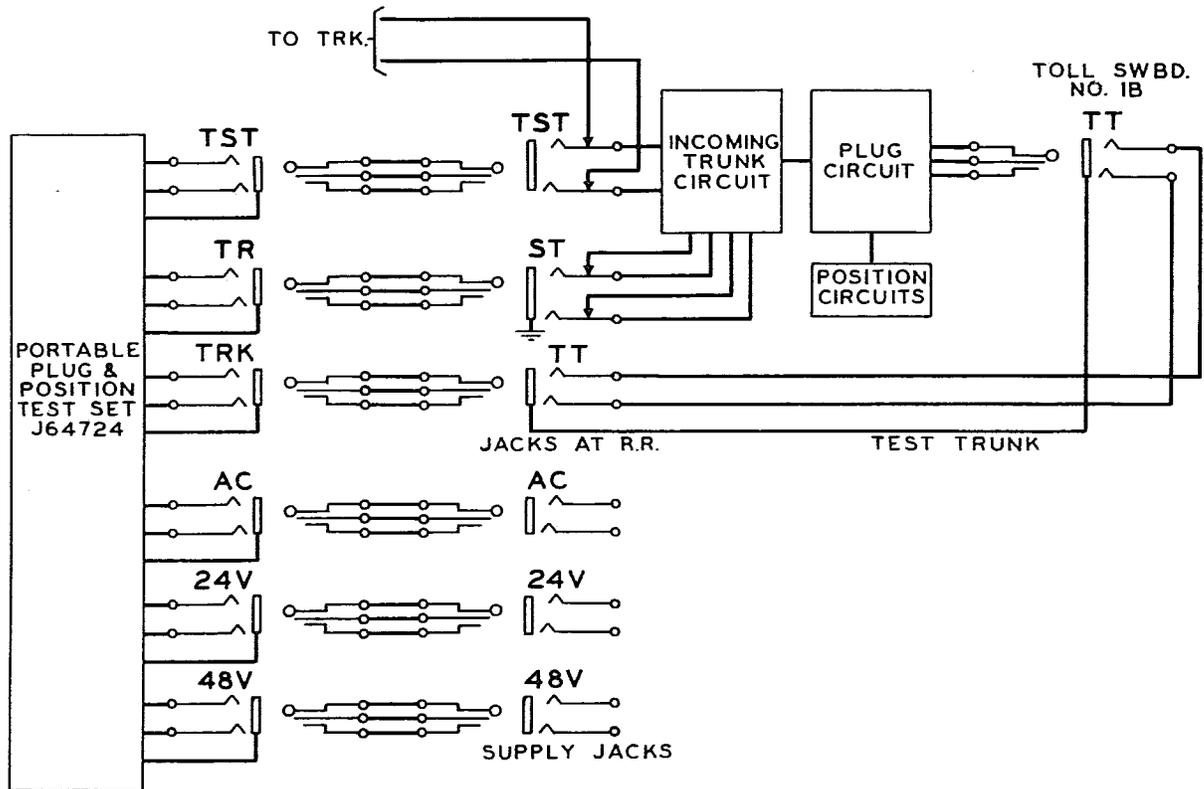


Fig. 4 - Test (E) - Trunks from Outlying Toll Offices - Composite Signaling - Without Call Distribution

At the Relay Rack

4.143 Observe that the S lamp goes out. If the trunk is arranged for pad control operate the PCT key momentarily. The PU lamp should go out, and then light again, indicating that the trunk pad control circuit is operative.

At the No. 1B Switchboard

4.144 Depress the TK key associated with the plug circuit under test. Observe that the CN lamp flashes at 120 IPM. Check that the talking circuit to the relay rack is re-established.

4.145 Depress the TEL REL key. Observe that the CN lamp goes out.

At the Relay Rack

4.146 Operate the RF key momentarily. Observe that the R lamp lights for a period of 2 seconds.

4.147 Operate the RB key momentarily. Observe that the S lamp lights momentarily.

4.148 Remove the cords from the TR and ST jacks of the trunk circuit and re-

store the CX key. Observe that the PU lamp goes out.

At the No. 1B Switchboard

4.149 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the Relay Rack

4.150 On one of the trunks associated with each No. 1B switchboard position, make the tests covered below in 4.151 to 4.170, inclusive.

4.151 Test the trunk for busy by observing whether the A relay is operated. If idle, patch the TST and ST jacks of the test set to jacks TR and ST, respectively, of the trunk and operate the CX key. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.152 Note that three zips are heard and that the CN lamp flashes at 120 IPM.

4.153 Depress the NON RNG key.

4.154 Insert the plug associated with the flashing CN lamp into the TT jack.

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4.155 Depress the TEL REL key. Observe that the CN lamp goes out.

At the Relay Rack

4.156 Observe that the PU lamp lights, that the R lamp does not light and that the S lamp goes out.

4.157 Restore the CX key. Observe that the PU lamp goes out.

At the No. 1B Switchboard

4.158 Observe that the DC lamp lights. Remove the plug from the TT jack. Observe that the DC lamp goes out.

At the Relay Rack

4.159 Operate the RCL key.

4.160 Operate the CX key. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.161 Note that three zips are heard and that the CN lamp flashes at 120 IPM.

4.162 Insert the plug associated with the flashing CN lamp into the TT jack.

4.163 Depress the TEL REL key. Observe that the CN lamp goes out.

At the Relay Rack

4.164 Observe that the PU lamp lights steadily and that the R lamp lights for two seconds. Restore the RCL key. Observe that the S lamp goes out.

4.165 Operate the RF key momentarily. Observe that the R lamp does not light. Note that three zips are heard and that the S lamp lights.

At the No. 1B Switchboard

4.166 Note that three zips are heard and that the CN lamp flashes at 120 IPM. Check that the talking circuit is reestablished to the relay rack.

4.167 Depress the TEL REL key. Observe that the CN lamp goes out.

At the Relay Rack

4.168 Observe that the S lamp goes out.

4.169 Remove the cords from the TR and ST jacks of the trunk and restore the CX key. Observe that the PU lamp goes out.

At the No. 1B Switchboard

4.170 Observe that the DC lamp lights. Remove the plug from the TT jack. The DC lamp goes out.

At the Relay Rack

4.171 At the conclusion of the tests, restore all keys and remove all cords.

5. RECORDS

5.01 The required record of this routine should be entered on the proper form.

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