

3-PORT CONFERENCE CIRCUIT (SD-2H137)

TESTS

NO. 2 AND NO. 2B ELECTRONIC SWITCHING SYSTEMS

1. GENERAL

1.01 This section describes the method of testing the 3-port conference circuit (SD-2H137) used in the No. 2 and No. 2B Electronic Switching Systems (ESS).

1.02 This section is reissued to cover No. 2B ESS.

1.03 The following tests will be performed:

A. Circuit State and Scan Point Operation:

This test verifies the operation of the circuit relays and the saturation of the ferrod sensors associated with the 3-port conference circuit.

B. Transmission Loss Measurement: This test verifies the transmission loss of the 3-port conference circuit in the talk states.

1.04 The 3-port conference circuit tests are performed where a malfunction of the circuit is suspected.

1.05 The tests will be performed from the trunk test panel (TTP) in conjunction with the maintenance display buffer. For detailed information about the TTP and its operation, refer to Section 232-130-301, TRUNK TEST PANEL—METHOD OF OPERATION.

1.06 The keys on the TTP may be either a locking or a nonlocking type. In order to differentiate between the two types of keys, the use of a locking type key shall be identified by the words "operate" and "release" and the use of a nonlocking type key shall be identified by the word "depress" in the ACTION column.

Note: Nonlocking keys require a depression of at least one-half second to ensure system recognition.

1.07 Lettered Steps: A letter a, b, c, etc, added to a step number in Part 3 or 4 of this section indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or series of lettered steps should be made is given in the ACTION column and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.

1.08 Whenever the term TOUCH-TONE® telephone service is used, it refers to the equipment required to provide this service to the customer.

2. APPARATUS

2.01 A 262C-type (900 ohm) plug.

2.02 Two 508A blocking tools.

2.03 Headset for receiving only, with a 310 plug on the end.

2.04 A 2P4A patch cord consisting of a P2B cord, 3 feet long, and two 310 plugs.

2.05 Transmission measuring set (TMS), 23D, or equivalent. Equivalent apparatus must be capable of measuring power in a 900-ohm circuit at 1 kHz. The accuracy must be ± 0.1 dB at 1 kHz at normal room temperature and the range must be from -15 dBm to $+10$ dBm at 1 kHz.

Note: This item will not be required if the TTP is equipped with a TMS.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

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3. PREPARATION

3.01 Refer to the office records to obtain the member number (MEMN) and the supervisory scan point number (SPN) of the 3-port conference circuit to be tested. The MEMN will be that of the controlling port (port 0) and the trunk group number (TGN) for Port 0 is 012.

3.02 Verify the scan point number obtained in 3.01 and obtain the MEMN for both noncontrolling ports as follows:

At the maintenance TTY, type in:

A VY:SVC:aaa bbb!

aaa = 012

bbb = MEMN

The system will respond by giving TGN, MEMN, and SPN for all three ports as follows:

AR VY SVC 012 bbb

TEN nn gesl

SPN ss rbbb

STEP

ACTION

VERIFICATION

All Tests

- | | | |
|---|--|---|
| 1 | At telephone set on TTP— Operate access trunk 1 key. | |
| 2 | Lift handset off-hook, or operate TRFR key of TEL CKT on TTP if using headset. | At telephone set— Access trunk 1 lamp lighted. At ACCESS TRUNK 1 CONTROL— SUPV lamp lighted. At TEL CKT— TRFR lamp lighted if TRFR key is operated. |
| 3 | At TOUCH-TONE dial— Dial 1 + TGN + MEMN + ST | At ACCESS TRUNK 1 CONTROL— EQPT ST lamp lighted steadily or flashing at a rate of 120 interruptions per minute. At MISC TEST CONTROL— P & E lamp lighted if connection was successful. |

TRK 064 bbb

TRK 064 bbb

ss = scanner number

rr = scanner row

bb = bit in row.

The bb bit represents the first ferrod sensor (0) in the scanner row that is associated with the specific circuit. All other ferrod sensors assigned to the same circuit follow in consecutive order (0, 1, 2, etc.) Refer to the output message manual (OM-2H200) for explanation of other data fields, if required.

3.03 Use the following procedure to make the 3-port conference circuit traffic busy and to connect it to the TTP.

Note: When connection to a multiple port circuit is required, the controlling port (Port 0) of the circuit must be connected to the TTP prior to connecting the noncontrolling ports. The TGN of the controlling Port is 012 (Fig. 1).

Note: If the EQPT ST lamp is flashing and the P & E lamp is not lighted steadily, the

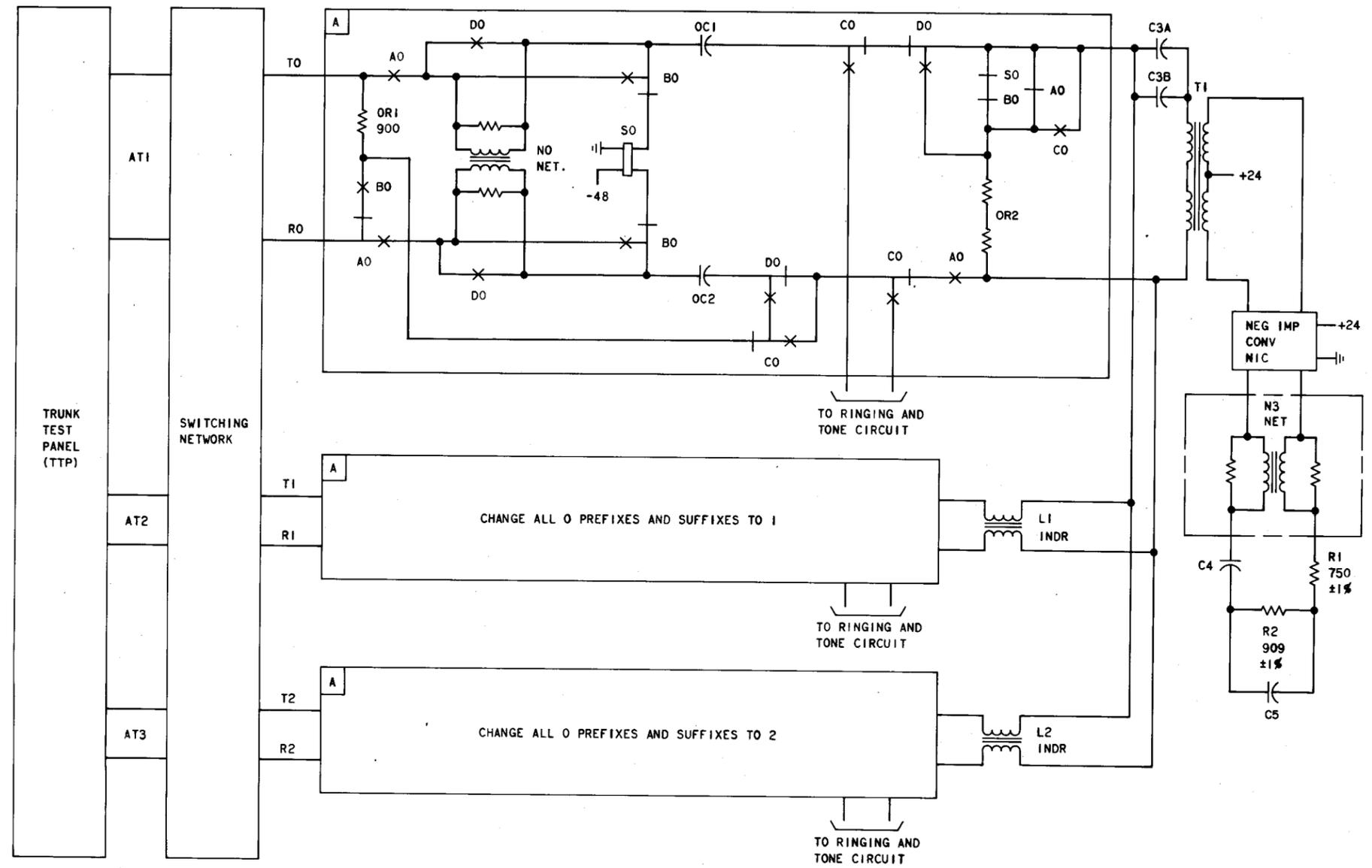


Fig. 1—Test Configuration Using Trunk Test Panel When Testing a 3-Port Conference Circuit

| STEP | ACTION | VERIFICATION |
|------------------|---|--|
| | | TTP is not connected to the circuit to be tested. |
| 4a | If the P & E lamp is not lighted steadily— At ACCESS TRUNK 1 CONTROL— Depress RLS key. | |
| 5a | Repeat Steps 3 and 4a until connection is successful. | |
| 6 | Place handset on-hook or release TRFR key. | At telephone set— Access trunk 1 lamp extinguished. At TEL CKT— TRFR lamp extinguished. |
| 7 | Repeat steps 1 through 6 for access trunk 2 using TGN 064 and the MEMN obtained in 3.02 for PORT 1 . | |
| 4. METHOD | | (2) Troubleshoot the circuit which failed. |
| 4.01 | If the verification procedure fails or if a malfunctioning circuit is indicated during any part of these tests, proceed as follows. | (3) Replace faulty circuit components using standard repair procedures. |
| | (1) Discontinue the test. | (4) Repeat the test that failed. If verification is successful, continue the test. |

| STEP | ACTION | VERIFICATION |
|--|---|--|
| A. Circuit State and Scan Point Operation | | |
| 8 | Repeat Steps 1 through 6 for access trunk 3 using TGN 064 and the MEMN obtained in 3.02 for PORT 2 . | |
| 9 | Use the TTY printout from 3.02 to determine the scanner number and the scanner row associated with the scan point assigned to the 3-port conference circuit. | |
| 10 | At maintenance TTY— ◆No. 2 ESS offices type in:◆ UBRL TS:RSN:ssrr! ss = Number of trunk scanner in decimal (0-11) from Step 9. rr = Number of scanner row in decimal (0-63) from Step 9. ◆For No. 2B ESS offices type in: MON:TSSN ssrr;RDT LAMPS! ss = Number of trunk scanner in decimal (0-11) from Step 9. | At DISPLAY BUFFER— Scanner row containing specific scan points displayed on DISPLAY BUFFER lamps. Lamps associated with ferrod sensors connected to circuit under test lighted. |

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| STEP | ACTION | VERIFICATION |
|------|---|---|
| | <p>rr = Number of scanner row in decimal (0-63) from Step 9. RDT LAMPS = Direct the result to the DISPLAY BUFFER.◆</p> | |
| 11 | Set PD GROUP switch to 0-5 position. | |
| 12 | At ACCESS TRUNK 1 CONTROL— Depress VM key. | At ACCESS TRUNK 1 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted. |
| 13 | At PERIPHERAL DECODER POINTS— Operate 0 and 1 keys. | At PERIPHERAL DECODER POINTS— 0 and 1 lamps lighted. |
| 14 | Depress AT 1 key. | At circuit under test— Relays A0 and B0 operated. At VOLTMETER— Meter indicates 0. |
| 15 | At VOLTMETER CONTROL— Operate TR REV key. | At VOLTMETER CONTROL— TR REV lamp lighted. At VOLTMETER— Meter indicates 0. |
| 16 | Depress FEMF key. | FEMF lamp lighted. At VOLTMETER— Meter indicates 0. |
| 17 | Release TR REV key. | TR REV lamp extinguished. At VOLTMETER— Meter indicates 0. |
| 18 | Depress MET VM key. | FEMF lamp extinguished. MET VM lamp lighted. |
| 19 | At PERIPHERAL DECODER POINTS— Release 1 key. | At PERIPHERAL DECODER POINTS— 1 lamp extinguished. |
| 20 | Depress AT 1 key. | At circuit under test— Relay B0 released. Relay A0 remains operated. At VOLTMETER— Meter indicates between 42.75 and 52.50 volts on 120-volt scale. |
| 21 | At front of writing shelf— Insert No. 262C-type (900 ohm) plug into ACCESS TRK-1 jack. | At DISPLAY BUFFER— Lamp associated with ferrod sensor 0 extinguished. |

| STEP | ACTION | VERIFICATION |
|------|---|--|
| 22 | At PERIPHERAL DECODER POINTS— Release 0 key. Operate 1 key. | At PERIPHERAL DECODER POINTS— 0 lamp extinguished. 1 lamp lighted. |
| 23 | Depress AT 1 key. | At circuit under test— Relay A0 released. Relay B0 operated. At DISPLAY BUFFER— Lamp associated with ferrod sensor 0 lighted. |
| 24 | At front of writing shelf on TTP— Remove No. 262C-type (900 ohm) plug from ACCESS TRK-1 jack. | |
| 25 | At VOLTMETER CONTROL— Depress 1K key. Operate GRD key. | At VOLTMETER CONTROL— MET VM lamp extinguished. 1K lamp lighted. GRD lamp lighted. At VOLTMETER— Meter indicates between 10.0 and 11.2 volts on 24-volt scale. |
| 26 | At VOLTMETER CONTROL— Release GRD key. Depress MET VM key. | At VOLTMETER CONTROL— 1K lamp extinguished. GRD lamp extinguished. MET VM lamp lighted. |
| 27 | At PERIPHERAL DECODER POINTS— Release 1 key. Operate 0, 2, and 3 keys. | At PERIPHERAL DECODER POINTS— 1 lamp extinguished. 0, 2, and 3 lamps lighted. |
| 28 | Depress AT 1 key. | At circuit under test— Relay B0 released. Relays A0, C0, and D0 operated. |
| 29 | At front of writing shelf— Insert headset into ACCESS TRK-1 jack. | At headset— Call waiting tone present. |
| 30 | At PERIPHERAL DECODER POINTS— Release 0, 2, and 3 keys. | At PERIPHERAL DECODER POINTS— 0, 2, and 3 lamps extinguished. |
| 31 | Depress AT 1 key. | At circuit under test— Relays A0, C0, and D0 released. |
| 32 | At ACCESS TRUNK 1 CONTROL— Depress HOLD key. | At ACCESS TRUNK 1 CONTROL— VM lamp extinguished. HOLD lamp lighted. At VOLTMETER CONTROL— MET VM lamp extinguished. |
| 33 | Set PD GROUP switch to 6-11 position. | |

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| STEP | ACTION | VERIFICATION |
|-------------|---|--|
| 34 | At ACCESS TRUNK 2 CONTROL— Depress VM key. | At ACCESS TRUNK 2 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted. |
| 35 | At PERIPHERAL DECODER POINTS— Operate 6 and 7 keys. | At PERIPHERAL DECODER POINTS— 6 and 7 lamps lighted. |
| 36 | Depress AT 1 key. | At circuit under test— Relays A1 and B1 operated. At VOLTMETER— Meter indicates 0. |
| 37 | At VOLTMETER CONTROL— Operate TR REV key. | At VOLTMETER CONTROL— TR REV lamp lighted. At VOLTMETER— Meter indicates 0. |
| 38 | Depress FEMF key. | FEMF lamp lighted. At VOLTMETER— Meter indicates 0. |
| 39 | Release TR REV key. | TR REV lamp extinguished. At VOLTMETER— Meter indicates 0. |
| 40 | Depress MET VM key. | FEMF lamp extinguished. MET VM lamp lighted. |
| 41 | At PERIPHERAL DECODER POINTS— Release 7 key. | At PERIPHERAL DECODER POINTS— 7 lamp extinguished. |
| 42 | Depress AT 1 key. | At circuit under test— Relay B1 released. Relay A1 remains operated. At VOLTMETER— Meter indicates between 42.75 and 52.50 volts on 120-volt scale. |
| 43 | At front of writing shelf on TTP— Insert No. 262C-type (900 ohm) plug into ACCESS TRK-2 jack. | At DISPLAY BUFFER— Lamp associated with ferrod sensor 1 extinguished. |
| 44 | At PERIPHERAL DECODER POINTS— Release 6 key. Operate 7 key. | At PERIPHERAL DECODER POINTS— 6 lamp extinguished. 7 lamp lighted. |
| 45 | Depress AT 1 key. | At circuit under test— Relay A1 released. Relay B1 operated. At DISPLAY BUFFER— Lamp associated with ferrod sensor 1 lighted. |

| STEP | ACTION | VERIFICATION |
|------|--|--|
| 46 | At front of writing shelf— Remove No. 262C-type (900 ohm) plug from ACCESS TRK-2 jack. | |
| 47 | At VOLTMETER CONTROL— Depress 1K key. Operate GRD key. | At VOLTMETER CONTROL— MET VM lamp extinguished. 1K lamp lighted. GRD lamp lighted. At VOLTMETER— Meter indicates between 10.0 and 11.2 volts on 24-volt scale. |
| 48 | At VOLTMETER CONTROL— Release GRD key. Depress MET VM key. | At VOLTMETER CONTROL— 1K lamp extinguished. GRD lamp extinguished. MET VM lamp lighted. |
| 49 | At PERIPHERAL DECODER POINTS— Release 7 key. Operate 6 and 8 keys. | At PERIPHERAL DECODER POINTS— 7 lamp extinguished. 6 and 8 lamps lighted. |
| 50 | Depress AT 1 key. | At circuit under test— Relay B1 released. Relays A1 and C1 operated. |
| 51 | Set PD GROUP switch to 0-5 position. | |
| 52 | At PERIPHERAL DECODER POINTS— Release 0 and 2 keys. Operate 4 key. | At PERIPHERAL DECODER POINTS— 0 and 2 lamps extinguished. 4 lamp lighted. |
| 53 | Depress AT 1 key. | At circuit under test— Relay D1 operated. Relays A1 and C1 remain operated. |
| 54 | At front of writing shelf— Move headset from ACCESS TRK-1 jack to ACCESS TRK-2 jack. | At headset— Audible ring tone present. |
| 55 | At PERIPHERAL DECODER POINTS— Release 4 key. | At PERIPHERAL DECODER POINTS— 4 lamp extinguished. |
| 56 | Depress AT 1 key. | At circuit under test— Relays D1 released. |
| 57 | Set PD GROUP switch to 6-11 position. | |
| 58 | Depress AT 1 key. | At circuit under test— Relays A1 and C1 released. |
| 59 | At ACCESS TRUNK 2 CONTROL— Depress HOLD key. | At ACCESS TRUNK 2 CONTROL— VM lamp extinguished. |

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| STEP | ACTION | VERIFICATION |
|------|--|--|
| | | HOLD lamp lighted. At VOLTMETER CONTROL— MET VM lamp extinguished. |
| 60 | At ACCESS TRUNK 3 CONTROL— Depress VM key. | At ACCESS TRUNK 3 CONTROL— VM lamp lighted. At VOLTMETER CONTROL— 100K lamp lighted. |
| 61 | At PERIPHERAL DECODER POINTS— Operate 9 and 10 keys. | At PERIPHERAL DECODER POINTS— 9 and 10 lamps lighted. |
| 62 | Depress AT 1 key. | At circuit under test— Relays A2 and B2 operated. At VOLTMETER— Meter indicates 0. |
| 63 | At VOLTMETER CONTROL— Operate TR REV key. | At VOLTMETER CONTROL— TR REV lamp lighted. At VOLTMETER— Meter indicates 0. |
| 64 | Depress FEMF key. | FEMF lamp lighted. At VOLTMETER— Meter indicates 0. |
| 65 | Release TR REV key. | TR REV lamp extinguished. At VOLTMETER— Meter indicates 0. |
| 66 | Depress MET VM key. | FEMF lamp extinguished. MET VM lamp lighted. |
| 67 | At PERIPHERAL DECODER POINTS— Release 10 key. | At PERIPHERAL DECODER POINTS— 10 lamp extinguished. |
| 68 | Depress AT 1 key. | At circuit under test— Relay B2 released. Relay A2 remains operated. At VOLTMETER— Meter indicates between 42.75 and 52.50 volts on 120-volt scale. |
| 69 | At front of writing shelf— Insert No. 262C-type (900 ohm) plug into ACCESS TRK-3 jack. | At DISPLAY BUFFER— Lamp associated with ferrod sensor 2 extinguished. |
| 70 | At PERIPHERAL DECODER POINTS— Release 9 key. Operate 10 key. | At PERIPHERAL DECODER POINTS— 9 lamp extinguished. 10 lamp lighted. |

| STEP | ACTION | VERIFICATION |
|------|--|--|
| 71 | Depress AT 1 key. | At circuit under test— Relay A2 released. Relay B2 operated. At DISPLAY BUFFER— Lamp associated with ferrod sensor 3 lighted. |
| 72 | At front of writing shelf— Remove No. 262C-type (900 ohm) plug from ACCESS TRK-3 jack. | |
| 73 | At VOLTMETER CONTROL— Depress 1K key. Operate GRD key. | At VOLTMETER CONTROL— MET VM lamp extinguished. 1K lamp lighted. GRD lamp lighted. At VOLTMETER— Meter indicates between 10.0 and 11.2 volts on 24-volt scale. |
| 74 | At VOLTMETER CONTROL— Release GRD key. Depress MET VM key. | At VOLTMETER CONTROL— 1K lamp extinguished. GRD lamp extinguished. MET VM lamp lighted. |
| 75 | At PERIPHERAL DECODER POINTS— Release 10 key. Operate 9 and 11 keys. | At PERIPHERAL DECODER POINTS— 10 lamp extinguished. 9 and 11 lamps lighted. |
| 76 | Depress AT 1 key. | At circuit under test— Relay B2 released. Relays A2 and C2 operated. |
| 77 | Set PD GROUP switch to 0-5 position. | |
| 78 | At PERIPHERAL DECODER POINTS— Release 3 key. | At PERIPHERAL DECODER POINTS— 3 lamp extinguished. 5 lamp remains lighted. |
| 79 | Depress AT 1 key. | At circuit under test— Relay D2 operated. Relays A2 and C2 remain operated. |
| 80 | At front of writing shelf— Move headset from ACCESS TRK-2 jack to ACCESS TRK-3 jack. | At headset— Audible ring tone present. |
| 81 | At PERIPHERAL DECODER POINTS— Release 5 key. | At PERIPHERAL DECODER POINTS— 5 lamp extinguished. |
| 82 | Depress AT 1 key. | At circuit under test— Relay D2 released. |
| 83 | Set PD GROUP switch to 6-11 position. | |

| | ACTION | VERIFICATION |
|----|--|--|
| | Depress AT 1 key. | At circuit under test— Relays A2 and B2 released. |
| 85 | At front of writing shelf— Remove headset from ACCESS TRK-3 jack. | |
| 86 | At ACCESS TRUNK 2 CONTROL and ACCESS TRUNK 3 CONTROL— Depress RLS keys. | At ACCESS TRUNK 2 CONTROL— HOLD lamp extinguished. At ACCESS TRUNK 3 CONTROL— VM lamp extinguished. At ACCESS TRUNK 2 CONTROL and ACCESS TRUNK 3 CONTROL— SUPV lamps extinguished. EQPT ST lamps extinguished. At VOLTMETER— MET VM lamp extinguished. |
| 87 | At ACCESS TRUNK 1 CONTROL— Depress RLS key. | At ACCESS TRUNK 1 CONTROL— HOLD lamp extinguished. SUPV lamp extinguished. EQPT ST lamp extinguished. At MISC TEST CONTROL— P & E lamp extinguished. |
| 88 | At maintenance TTY— ◆For No. 2 ESS offices type in:◆ UB SY:CLB! ◆For No. 2B ESS offices type in: STOP:UTIL!◆ | Ferrod sensor display removed from DISPLAY BUFFER. |

B. Transmission Loss Measurements

Note: Repeat Steps 1 through 7.

| | | |
|-----|--|--|
| 8 | At ACCESS TRUNK 1 CONTROL and ACCESS TRUNK 2 CONTROL— Depress XMSN keys. | At ACCESS TRUNK 1 CONTROL and ACCESS TRUNK 2 CONTROL— XMSN lamps lighted. |
| 9b | If TTP is equipped with a TMS— At TRANSMISSION MEASURING CONTROL— Set MEASURE switch to MEAS 2. Set TEST SET switch to TMS. Operate CAL key. | At TRANSMISSION MEASURING CONTROL— CAL lamp lighted. |
| 10c | If TTP is not equipped with a TMS— Use the 2P4A cord assembly to connect 23D TMS to the TM2 jack at front of the writing shelf on TTP. Set DIAL MEAS EXT switch to MEAS. | |

| STEP | ACTION | VERIFICATION |
|------|--|---|
| 11 | At TMS— Set ADD DBM switch to 0 position. | |
| 12 | At TRANSMISSION MEASURING CONTROL— Set SEND switch to 0 DBM-1kHz position. | |
| 13 | At TMS— Adjust CAL 1 for 0 DBM on meter. | |
| 14b | If TTP is equipped with a TMS— At TRANSMISSION MEASURING CONTROL— Release CAL key. | At TRANSMISSION MEASURING CONTROL— CAL lamp extinguished. |
| 15 | At circuit under test— Block operate relays S0 and S1. | |
| 16 | Set PD GROUP switch to 0-5 position. | |
| 17 | At PERIPHERAL DECODER POINTS— Operate 0 key. | At PERIPHERAL DECODER POINTS— 0 lamp lighted. |
| 18 | Depress AT 1 key. | At circuit under test— Relay A0 operated. |
| 19 | Set PD GROUP switch to 6-11 position. | |
| 20 | Depress AT 1 key. | At circuit under test— Relay A1 operated. Relay A0 remains operated. At TMS— ♦Meter indicates between 0 and -2.7 dB.♦ |
| 21 | At PERIPHERAL DECODER POINTS— Operate 7 key. | At PERIPHERAL DECODER POINTS— 7 lamp lighted. |
| 22 | Depress AT 1 key. | At circuit under test— Relay B1 operated. |
| 23 | Set PD GROUP switch to 0-5 position. | |
| 24 | Depress AT 1 key. | At circuit under test— Relay B0 operated. Relays A0, A1, and B1 remain operated. At TMS— ♦Meter indicates between 0 and -2.2 dB.♦ |
| 25 | Set PD GROUP switch to 6-11 position. | |
| 26 | At PERIPHERAL DECODER POINTS— Release 6 and 7 keys. | At PERIPHERAL DECODER POINTS— 6 and 7 lamps extinguished. |

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| STEP | ACTION | VERIFICATION |
|-------------|---|--|
| 27 | Depress AT 1 key. | At circuit under test— A1 and B1 released. |
| 28 | At ACCESS TRUNK 2 CONTROL— Depress RLS key. | At ACCESS TRUNK 2 CONTROL— XMSN lamp extinguished. SUPV lamp extinguished. EQPT ST lamp extinguished. |
| 29 | At circuit under test— Remove block from relay S1. Block operate relay S2. | |
| 30 | Repeat Steps 1 through 6 for ACCESS TRUNK 2 using 064 and the MEMN obtained in 3.02 for PORT 2 of the 3-port conference circuit. | Same as for Steps 1 through 6. |
| 31 | At ACCESS TRUNK 2 CONTROL— Depress XMSN key. | |
| 32 | At PERIPHERAL DECODER POINTS— Operate 9 and 10 keys. | At PERIPHERAL DECODER POINTS— 9 and 10 lamps lighted. |
| 33 | Depress AT 1 key. | At circuit under test— Relays A2 and B2 operated. Relays A0 and B0 remain operated. At TMS— ◆Meter indicates between 0 and -2.2 dB.◆ |
| 34 | At PERIPHERAL DECODER POINTS— Release 10 key. | At PERIPHERAL DECODER POINTS— 10 lamp extinguished. |
| 35 | Depress AT 1 key. | At circuit under test— Relay B2 released. |
| 36 | Set PD GROUP switch to 0-5 position. | |
| 37 | At PERIPHERAL DECODER POINTS— Release 3 key. Operate 0 key. | At PERIPHERAL DECODER POINTS— 3 lamp extinguished. 0 lamp lighted. |
| 38 | Depress AT 1 key. | At circuit under test— Relay B0 released. Relays A0 and A2 remain operated. At TMS— ◆Meter indicates between 0 and -2.7 dB.◆ |
| 39 | At PERIPHERAL DECODER POINTS— Release 0 key. | At PERIPHERAL DECODER POINTS— 0 lamp extinguished. |
| 40 | Depress AT 1 key. | At circuit under test— Relay A0 released. |

| STEP | ACTION | VERIFICATION |
|------|---|---|
| 41 | Set PD GROUP switch to 6-11 position. | |
| 42 | Depress AT 1 key. | At circuit under test— Relay A2 released. |
| 43 | At ACCESS TRUNK 2 CONTROL— Depress RLS key. | At ACCESS TRUNK 2 CONTROL— XMSN lamp extinguished. SUPV lamp extinguished. EQPT ST lamp extinguished. |
| 44 | At ACCESS TRUNK 1 CONTROL— Depress RLS key. | At ACCESS TRUNK 1 CONTROL— XMSN lamp extinguished. SUPV lamp extinguished. EQPT ST lamp extinguished. At MISC TEST CONTROL— P & E lamp extinguished. |
| 45 | At circuit under test— Remove block from relay S0. Block operate relay S1. | |
| 46 | Repeat Steps 1 through 6 for access trunk 3 using 012 and MEMN obtained in 3.02 for PORT 0 of the 3-port conference circuit. | Same as for Steps 1 through 6. |
| 47 | Repeat Steps 1 through 6 for access trunk 1 using 064 and MEMN obtained in 3.02 for PORT 1 of the 3-port conference circuit. | Same as for Steps 1 through 6. |
| 48 | Repeat Steps 1 through 6 for access trunk 2 using 064 and MEMN obtained in 3.02 for PORT 2 of the 3-port conference circuit. | Same as for Steps 1 through 6. |
| 49 | At ACCESS TRUNK 1 CONTROL and ACCESS TRUNK 2 CONTROL— Depress XMSN keys. | At ACCESS TRUNK 1 CONTROL and ACCESS TRUNK 2 CONTROL— XMSN lamps lighted. |
| 50 | At PERIPHERAL DECODER POINTS— Operate 6 and 9 keys. | At PERIPHERAL DECODER POINTS— 6 and 9 lamps lighted. |
| 51 | Depress AT 3 key. | At circuit under test— Relays A1 and A2 operated. At TMS— ♦Meter indicates between 0 and -3.2 dB.♦ |
| 52 | At PERIPHERAL DECODER POINTS— Operate 7 and 10 keys. | At PERIPHERAL DECODER POINTS— 7 and 10 lamps lighted. |
| 53 | Depress AT 3 key. | At circuit under test— Relays B1 and B2 operated. Relays A1 and A2 remain operated. |

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| STEP | ACTION | VERIFICATION |
|-------------|---|---|
| | | At TMS— Meter indicates between 0 and -2.7 dB. |
| 54 | At PERIPHERAL DECODER POINTS— Release 6, 7, 9, and 10 keys. | At PERIPHERAL DECODER POINTS— 6, 7, 9, and 10 lamps extinguished. |
| 55 | Depress AT 3 key. | At circuit under test— Relays A1, B1, A2, and B2 released. |
| 56 | At TRANSMISSION MEASURING CONTROL— Set SEND switch to OFF position. | |
| 57b | If TTP is equipped with TMS— At TRANSMISSION MEASURING CONTROL— Set MEASURE switch to OFF position. | |
| 58 | At circuit under test— Remove relay blocks from S1 and S2. | |
| 59 | Remove any test connections. | |
| 60 | At ACCESS TRUNK 1 CONTROL and ACCESS TRUNK 2 CONTROL— Depress RLS keys. | At ACCESS TRUNK 1 CONTROL and ACCESS TRUNK 2 CONTROL— SUPV lamps extinguished. EQPT ST lamps extinguished. |
| 61 | At ACCESS TRUNK 3 CONTROL— Depress RLS key. | At ACCESS TRUNK 3 CONTROL— XMSN lamps extinguished. SUPV lamps extinguished. EQPT ST lamp extinguished. At MISC TEST CONTROL— P & E lamp extinguished. |
| 62 | At telephone set on TTP— Operate green release key. | |