

NO. 3 ESS
INCOMING TRUNK CIRCUIT
REVERSE BATTERY SUPERVISION
WINK OR IMMEDIATE START
SD-3H220, CPS-FB371

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1. GENERAL INFORMATION

1.1 Description

1.11 This section provides an operational test of CPS-FB371, Incoming Reverse Battery Trunk Circuit. The circuit will be tested by using an Incoming Trunk Test Set, ITE-5158, to originate a call through the trunk under test to a test telephone.

1.2 Cross-Connections

1.21 Cross-connections from the trunk under test to circuits outside the No. 3 ESS should be removed prior to these tests and then reconnected following the tests.

1.3 References

1.31 The following documents will be useful as references during the execution of these tests:

| <u>DOCUMENT</u> | <u>TITLE</u> |
|-----------------|--|
| SD,CD-3H220 | Universal Trunk Circuit |
| SD-3H901 | Network Frame Circuit |
| CPS-FB371 | Incoming Trunk Circuit |
| TMO-5158 | Test Method of Operation, Incoming Trunk Test Set |

2. RECORDS AND REQUIREMENTS

2.1 Records

2.11 The results of this section shall be recorded on forms SD-97-1313 and SD-97-1315. For information on test records refer to Section 6B of HB 3.

2.2 Requirements

2.21 The tests in this section are based on the No. 3 ESS Performance Requirements, BSP 820-650-180.

3. TEST EQUIPMENT

3.1 Test Sets

3.11 The following test sets are required for these tests:

| <u>Code</u> | <u>Description</u> |
|-------------|-------------------------|
| ITE-5158 | Incoming Trunk Test Set |
| 1500D* | TT Telephone |
| ITE-4631** | Test Receiver Set |
| (2)ITE-9172 | Test Cord |

*Provided by Telephone Company

**Part of Test Accessory Set, ITE-5653

3.2 Cords

3.21 The power cord (ITE-9265) is furnished with the ITE-5158.

4. SETUP INFORMATION

4.1 Worksheet Information

4.11 Information about the trunk to be tested is needed. The equipment location of the trunk is found on Input Form ESS 3201. The circuit code for CPS-FB371 is "03."

4.12 The trunk group's direction, trunk type, type of pulsing, and start dial signal are found on Input Form ESS 3204-1.

4.13 The number of members in each group to test as well as the number of digits expected for incoming groups is found on Input Form ESS 3202-3.

4.15 The above information can be conveniently organized on a worksheet similar to Figure 1.

4.14 Select a test line with major originating and terminating classes of 8 (usually Line Class Code 1FR or 1MR qualifies) from ESS Form 3100.

| TRUNK INFORMATION | | | | | TEST PHONE | | | | | |
|-------------------|-----------------------|----------------------|-----------------|------------|------------|-------------|------|-----------------------|-----|-----|
| TRK GRP NO. | NO. DIGITS EXP. | ST. PULSE TYPE | MF OR DP? | MBR NO. | LOCATION | | | LINE CLASS CODE | TEN | CDF |
| | | | | | NW FR. | FR. LVL. | PACK | | | |
| | | | | | | | | | | |
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FIGURE 1

4.2 Test Connections

4.21 Locate the ITE-5158 test set at the rear of the network frame containing the trunk to be tested.

4.22 Using the ITE-9172 cords supplied in the test accessory set (ITE-5653) connect the trunk to be tested as follows:

| CPS-FB371 LEAD | FROM TRK CP CONN | TO ITE-5158 |
|-------------------|---------------------|----------------|
| T1 | 005 | T |
| R1 | 205 | R |

4.23 Using the ITE-9265 power cord supplied with the test set, connect the test set to ground, -48 volt and +24 volt jacks located at the network frame control panel.

4.24 Connect the ITE-4631 headset to the TEL jack on the test set.

4.25 Connect the test phone, as applicable, to the test line TEN selected in paragraph 4.14.

5. TEST OPERATION

5.1 Test Procedures

5.11 Follow the procedures per Table A and test all CPS-FB371 trunks as specified.

TABLE A

Test Procedures
CPS-FB371, Incoming Reverse Battery Trunk

| STEP | PROCEDURE | ACTION TO TAKE | COMMENT OR RESULT |
|------|--|--|---|
| 1 | At the ITE-5158, verify that all keys are released and all switches are in the "OFF" or down position. | | |
| 2 | Make the connection from the trunk under test to the ITE-5158. | | Refer to paragraph 4.2. |
| 3 | Set up the ITE-5158 for the test. | At the ITE-5158: a. Place the large black toggle switch in the "OFF" position. b. Operate the "TALK" switch. | |
| 4 | Seize the trunk. | At the ITE-5158: a. Depress and lock the "PWR" key. | If the trunk group is defined as wink start or delay dial the "W" light should light steady. |
| 5 | Pulse digits to the trunk. | <u>For DP</u> Using the rotary dial on the ITE-5158, dial the number of the test phone using only the number of digits the ICT expects. | <u>EXAMPLE:</u> If the test phone number is 123-4567 and the ICT expects 5 digits, then, for DP, dial 3-4567 or, for MF, punch in KP+3-4567+ST. |
| | | <u>For MF</u> Using the MF pad on the ITE-5158, punch in KP + the number of the test phone, using only the number of digits the ICT expects + ST. | |

TABLE A (Cont'd)

| STEP | PROCEDURE | ACTION TO TAKE | COMMENT OR RESULT |
|------|--|--|-------------------|
| 6 | Set up talking path through test set | At the ITE-5158: a) Place the large black toggle switch in "REPLY" position | |
| 7 | Verify that audible is heard in the headset and that ringing is heard at the test phone. | | |
| 8 | Answer the test phone and verify a talking path to the headset. | | |
| 9 | Disconnect the call. | Hang up the test phone and, at the ITE-5158: a. Release the "PWR" key. | |
| 10 | Repeat steps 1-9 for all CPS-FB371 trunks in the office. | | |

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