NO. 3 ESS
OUTGOING REVERSE BATTERY
TRUNK CIRCUIT
SD-3H220, CPS-FB399

CONTENTS

1. GENERAL INFORMATION

1.1 Description

1.11 This section provides an operational test of CPS-FB399 Outgoing Reverse Battery Trunk Circuit. The circuit will be tested by originating a call from a test telephone to a directory number which is routed to seize the trunk under test. The call will then be terminated at a Miscellaneous Trunk Test Set, ITE-5267.

1.2 Cross-Connections

1.21 Cross-connections from the trunk being tested to circuits outside the No. 3 FSS 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:

Document	Title
SD,CD-3H220	Universal Trunk Circuit
SD-3H901	Network Frame Circuit
CPS-FB399	Outgoing Reverse Battery Trunk Circuit
TMO-5267	Test Method of Operation, Miscellaneous 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 see Section 6B of Handbook 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:

Code	Description
ITE-5267	Miscellaneous 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-5267 Test Set. The cords required for making test connections (ITE-9172) are furnished as part of the Test Accessory Set, ITE-5653.

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-FB399 is "05".

4.12 The trunk type and start dial signal are found on Input Form ESS 3204-1.

4.13 The number of members in each group is found on Input Form ESS 3202.

4.14 Determine a trunk group's access code number as follows:

A. Using the trunk group number, determine the Route Index (RI) from Input Form ESS 3303.

B. Using the RI determine the Code Index (CI) from Input Form ESS 3304.

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C. Using the CI, determine the 3-digit NPA and/or office code to access the trunk group (may need a 1 or 0 prefix).

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

4.16 This information can be conveniently organized on a worksheet similar to Figure 1.

TRUNKS							TEST PHONE		
TRK GRP NO.	ACCESS CODE NO.	ST DIAL SGNL	MBR NO.	LOCATION			LINE CLASS CODE	TEN	CDF
				NW FR	FR LVL	PACK NO.			

FIGURE 1

4.2 Test Connections

4.21 Locate the ITE-5267 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 to the test set as follows:

CPS-FB399 LEAD	FROM TRK CP CONN	TO ITE-5267
T1	005	T
R1	205	R

4.23 Using the ITE-9265 power cord supplied with the ITE-5267, 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 selected in paragraph 4.15, as applicable, to its correct TEN.

5. TEST OPERATION

5.1 General

5.11 All trunks in an outgoing trunk group must be removed from service except the particular trunk to be tested in order to insure that this trunk is selected. This is accomplished with the following TTY input message (see IM/OM for description):

RMV:TRK (a,b),DSA;UCL!

This message must be repeated for each trunk to be removed.

5.12 A trunk that has been removed from service must be restored to service before it may be tested. This is accomplished with the following TTY input message (see IM/OM for description):

RST:TRK (a,b);UCL!

5.2 Test Procedures

5.21 Refer to Table A and test all CPS-FB399 trunk groups as specified.

TABLE A

TEST PROCEDURES
CPS-FB399

STEP	PROCEDURE	ACTION OR INPUT MESSAGE	COMMENT OR RESULT
1	Busy all the FB399's in the group to be tested except the trunk to be tested.	RMV:TRK (a,b),DSA;UCL!	M tt RMV TRK a b c d
2	Make the connections from the trunk under test to the test set.		Refer to paragraph 4.22.
3	Set up the ITE-5267 for the test.	At the ITE-5267: a) Operate "TALKO" key. b) Depress and lock the "ST" key. NOTE: If trunk is in a WINK START group (see worksheet per Fig 1) also do the following: c) Operate "WINK" switch. d) Operate "RB" switch. e) Operate "TIMER" switch to "100".	All other switches should be in the "OFF" or down position. At the end of Step "b" the lamp should light in the "ST" key.
4	Using the test phone, dial the access number to seize the trunk under test.		Refer to the worksheet per Fig. 1. At the end of dialing, the "TB" and "RB" lamps should light at the ITE-5267. (If set up for WINK START, "W" lamp will also light.)
5	Verify a talking path between the test phone and the headset at the ITE-5267.		
6	Disconnect the call.	Hang up the test phone and release the "ST" key at the ITE-5267.	
7	Repeat steps 1 - 6 for all FB399 trunks.		