

INCOMING TRUNK CIRCUIT  
(SD-1B067-01)

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1. GENERAL INFORMATION

1.1 Description of Circuit

1.1.1 This Incoming Trunk Circuit to Special Service Operator provides positive talk battery to the customer and a loop toward the DSA board cord circuit.

3.2 Cords

Note	Amt	Code	Lgth	Cdrs	One End	Other End
	1	ITE-9637	12'	3	310 Plug	351A Plug
	1	ITE-9598	12'	2	310 Plug	310 Plug
T	2	P3F	8'	-	-	-

1.1.2 The various facilities that may be connected together are shown in Note 102 of SD-1B067-01.

3.3 Accessories

Note	Amt	Code	Description
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1.2 Sequence of Testing

1.2.1 Perform tests in the order indicated.

R As ITE-8570 Alligator Clips Req.

1.3 Method of Testing

1.3.1 The ITE-4011 Miscellaneous Trunk Test Set is used to simulate office conditions. The various test set-ups are shown on Figure 1.

R As 322A Make Busy Plugs Req.

3.4 Notes

T - This is Telephone Company equipment used with the outgoing trunk test frame.

2. RECORDS AND REQUIREMENTS

2.1 Records

2.1.1 The results of these tests should be recorded on forms SD-4-1313 and SD-4-1315. For further information on test records see Handbook 3, Section 6B.

R - Requisition.

4. FUSING

2.2 Requirements

2.2.1 The tests of this section are based on SD and CD-1B067-01.

4.1 Using the ITE-4442A Volt-Ohmmeter or ITE-4631 Test Receiver, check that all fuse posts are clear of foreign battery and ground.

4.2 Install the fuses one at a time and check with the ITE-4442A Volt-Ohmmeter that the correct potential is received at one point in the circuit fused.

3. TEST EQUIPMENT

3.1 Test Sets

4.3 After each fuse is installed recheck the adjacent fuse post for absence of foreign battery before installing the next fuse.

Note	Amt	Code	Description
	1	ITE-4011	Misc. Trunk Test Set
	1	ITE-9650	Head Telephone Set
	1	ITE-4631	Test Receiver
	1	ITE-4442A	Volt-Ohmmeter
	1	ITE-4325	Timing Test Set
		or	
T	1	J24753A	Timing Test Set

5. TEST OPERATIONS

5.1 Test Set-Up

5.1.1 Locate the ITE-4011 test set at the Line Link frame.

5.1.2 Connect and patch ITE-4011 as indicated in Figure 1.

5.13 When the trunk is arranged for coin lines (SD Fig. 2 furnished), connect (RES-2) to (GRD-G1) and (RES-1) to (OR-T1) per Figure 1.

5.14 Using an ITE-9637 cord patch the test set 0 jack to cross-connected non-coin subscriber line (Z app or wrg furnished). Patch the 0 jack to a cross-connected prepayment coin subscriber when (SD Fig. 2 is furnished).

5.15 Set the RES switch on terminal 1 and operate the RES-1 key to the 0 position, for coin lines only. (SD Fig. 2).

## 5.2 Test Operations from Line Link Frame

5.21 Operate key STO and when dial tone is heard dial 0. Audible ringing tone is heard in the telephone set while awaiting the operator to answer.

5.22 The trunk lamp lights at the Switchboard when a lamp transfer circuit is provided (V wiring furnished). Check the operation for lighting lamps at the regular positions and to the positions where the transfer is made.

5.23 Answer the call by inserting an answering cord plug into the trunk jack. Audible ringing stops and the trunk lamp is extinguished. Check talking between the switchboard and the test set.

5.24 Restore key STO for one or two seconds and note that the connection is not released. Re-operate key STO.

5.25 Request the operator to disconnect. The trunk lamp re-lights after the operator has disconnected. Re-answer the call at the switchboard. Release the call from both ends.

5.26 Insert an answering cord plug into the trunk jack to make it busy. This is done to cause the next trunk to be selected on the succeeding test.

5.27 Repeat the above tests until all trunks have been tested. Leave the cords in the trunk jacks for the following tests.

5.28 After completion of test, restore the circuit to normal and remove all associated cords, plugs, strapping, insulators and blocking tools if applicable.

## 5.3 Test Operations from OGT Test Frame

5.31 At the outgoing trunk test frame and jack panel, patch a P3F cord into the test frame T1 jack and the trunk T jack on the jack panel. The test frame BY1 lamp lights. Remove the cord from the trunk jack at the switchboard. Lamp BY1 is extinguished.

5.32 Plug an ITE-9650 Telephone Head Set into the test frame TEL jacks and operate keys TLK-1 and SDR-1. Lamps ON1 and SUP-1 light and ringing is heard in the telephone set until the call is answered.

5.33 Answer the call at the switchboard. SUP-1 lamp is extinguished. Check talking between the test frame and the switchboard. Insert a P3F cord into the trunk S jack at the test frame. Check for ground on the tip of this cord.

5.34 Release the test frame NO-SDR-1 key, and operate and release the DISC-1 key. Remove the switchboard cord. The equipment restores to normal. Check that ground is removed from the tip of the cord in the trunk S jack. Remove the cord from the S jack.

5.35 At the switchboard, operate the make busy key associated with the trunk group under test, and verify that the S1 lead at each trunk of this group is grounded at the trunk MB jack on the test frame.

5.36 Restore the make busy keys to normal.

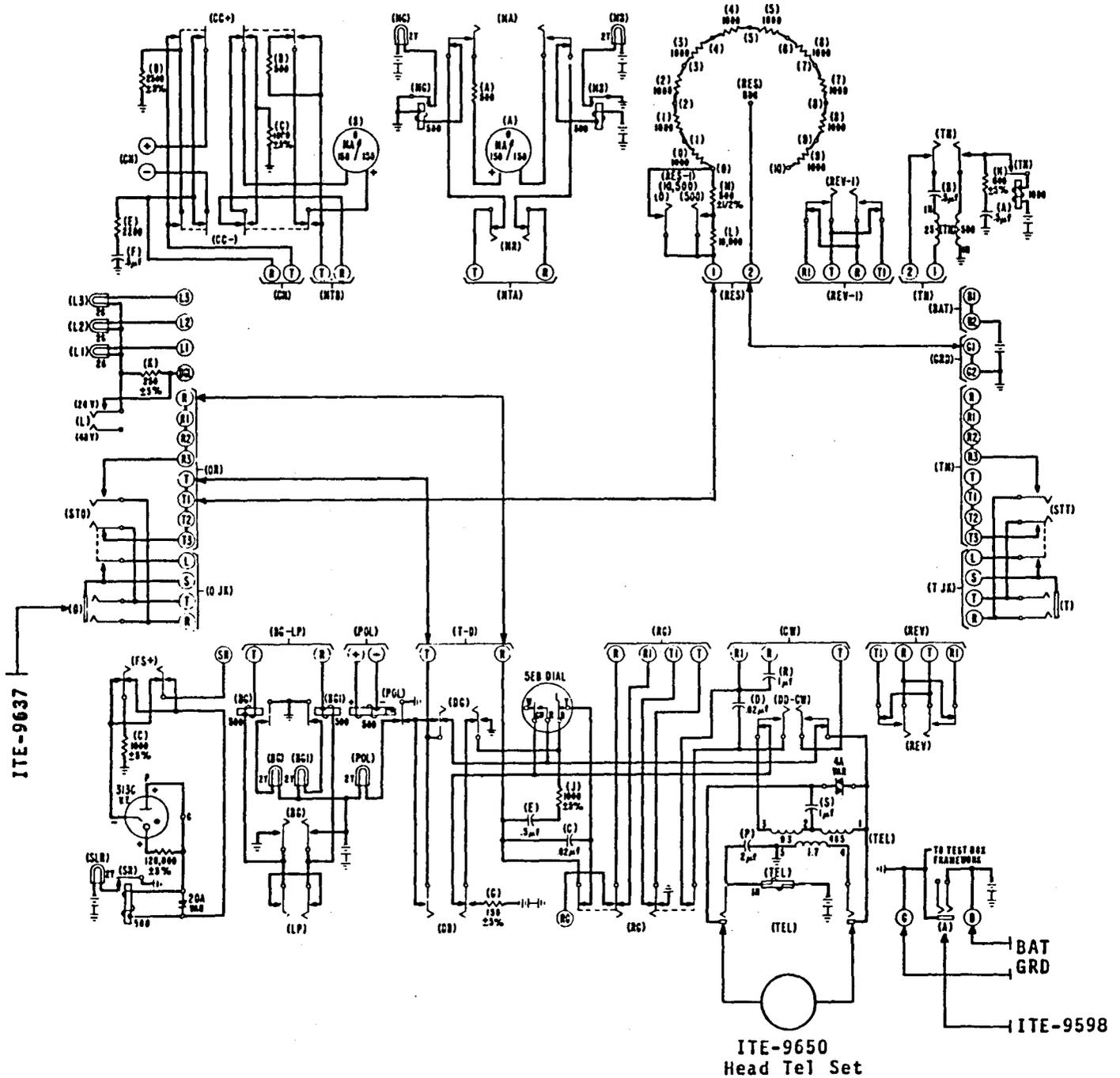
5.37 Insert a 322A plug into the trunk MB jack on the OGTF jack panel. Check for ground on the sleeve of the trunk T jack. Remove the make busy plug. Check that ground is removed from the T jack sleeve.

5.38 After completion of test, restore the circuit to normal and remove all associated cords, plugs, strapping, insulators and blocking tools if applicable.

## 6. MISCELLANEOUS TEST OPERATIONS

### 6.1 Timing Test Set-Up

6.11 Locate the ITE-4325 Timing Test Set or equivalent at the relay rack mounted equipment.



NOTE: ARROWS ON KEY CHART INDICATE KEYS OPERATED BEFORE START OF TEST

CIRCUIT REQUIREMENTS						
DESIG	CODE	RES %	TEST	SMALL MA	TEST MA	REAR MA
POL	230FH	5%	0	-15	0.0	3
			0	15		1
			0	15		1.0
POL	200J	10%	0	-12		1.0
			0	-12	0.2	3
			0	12	1.1	1.0
TR	200C	5%	0	15	12	
			0	10.5	11	
			0	12	11	
DC, DC1	0-473	5%	0	0.3	0.3	
			0	0.3	0.3	
			0	0.3	0.3	
S1		5%	0		7	
			0		7	
			0		7	

\*APPLIED WITH TENSION OF BIASING SPRING RELEASED

CORDS AND ACCESSORIES						
REQ	AMT	ITE	LENGTH	CORDS	END	END
	4	0547	12'	1	2455	2455
	1	0001	12'	3	310	310
	1	0005	12'	3	310	300
	2	0630	12'	3	310	3-2455
	14	0540	0'	1	2455	2455
	1	0506	12'	2	310	310
	2	0316	12'	3	310	3-0005
	0	0507				ALIGNMENT CLIPS
	0	2455				PLUGS
	0	4100				SPADE TIPS
	2	0412				CONNECTOR 2-POINT
	2	0415				CONNECTOR 4-POINT

MISCELLANEOUS TRUNK TEST SET, ITE-4011

	CC+	LP	SO-CW	
STO	CC+	BC	REV	REV-1
STT	TC	NR	DC	FS+

NOTE: ALL RESISTOR VALUES ARE ±1% UNLESS OTHERWISE SPECIFIED.

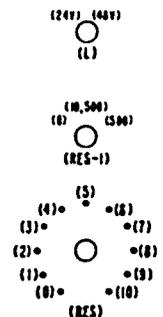


FIGURE 1

- 6.12 Connect and patch ITE-4325 Timing Test Set or equivalent as follows.
- 6.121 Connect ITE-9600 Cord or equivalent from Timing Test Set 48V jack to a 48V supply.
- 6.122 Connect ITE-9303 Cord or equivalent from Timing Test Set TST1 jack to circuit under test per Table A.

- 6.123 Operate switch MIL-SEC to position 0-5000 and switch PEC to position OC-GRD.
- 6.124 Operate key BAT to position ON and key TST to position OPR.
- 6.13 After completion of test, restore the circuit to normal and remove all associated cords, plugs, strapping, insulators and blocking tools is applicable.

TABLE A

TIMER SESIG.	BLOCK OR INSULATE	TEST CLIP DATA			TEST SET PREP			TIME REQ	
		CONN BK	CONN R	CONN W	SEND KEY	REC	SW	MISCELLANEOUS	
						START	STOP	MIN	MAX
TM	8 (CRL) 0 (ST)	GRD	U(ST)	1M(TM)	MK	OC	GRD	570	630

➔ Arrowed lines indicate new or changed information.

Manager, Engineering, Switching  
Equipment and SXS P.E.C.C.

Reason For Reissue:

To incorporate miscellaneous Handbook Sections into one Handbook Section and to make general revisions to update to current engineering standards.