

ROUTINE TEST OF INCOMING TRUNKS

PROVIDED WITH TEST JACKS

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1. GENERAL INFORMATION

1.1 Description of Tests

1.11 This section describes the routine tests to be applied to the following incoming trunk circuits:

Impedance Transmission, Immediate Ringing

SD-25875
SD-26204

Repeat Coil Transmission, Immediate Ringing

SD-25295

Repeat Coil Transmission, Delayed Ringing

SD-25302

- 1.12 Test information for the "No Test" trunks SD-25420 incoming from central A switchboard is provided in Handbook 63, Section 506.
- 1.13 Incoming Trunk Test Set SD-25187 (J24751A) (Telephone Company Equipment) or the Terminating Equipment Test Set ITE-4010 may be used in performing these tests. The use of SD-25187 is described in Paragraph 4 and the use of the ITE-4010 is described in Paragraph 5.

1.2 Test Lines

1.21 Assignments should be obtained from the telephone company for the incoming trunk test line, the return test line, busy line and overflow line.

NOTE: When trunks, common to two office units, are installed and test lines are available through each office unit alternate cycles of test shall be made through each office unit.

1.22 Tip party and busy line tests may be made before the official line assignments are provided by installing temporary cross-connections on a tip party line and using the ITE-4010 test set as described in Paragraph 5.

1.3 Exercise of Associated Circuits

1.31 During the routine tests, busy out equipment so that the home and mate or emergency terminating sender link and controller circuit and the A and B start circuits are used. Busy out all incoming link channels except one. Vary this idle channel so that all channels are employed. Note that only one trial is necessary to complete the test calls. Investigate any operation irregularities of the associated equipment. Coordinate these tests with the test of the terminating markers so that they may be exercised by test traffic.

2. RECORDS AND REQUIREMENTS

2.1 Records: Forms SD-4-1313 and ID-1334 are required for recording the results of these tests.

2.2 Requirements: Section 1 lists the routine tests and performance requirements.

3. TEST EQUIPMENT

3.1 Test Sets and Accessories

Amt	Code	Description
1	SD-25187 (J24751A)	Incoming Trunk Test Set
	or	
1	ITE-4010	Terminating Equip. Test Set (See Note)
	with	
2	ITE-2331	Extension Jack Box Furnished in ITE-4023
	and	
1	ITE-4403	MF Test Supply Set (See Note)

NOTE: Unless the number of MFKP trunks to be tested exceeds 500 do not require the combination of ITE-4010 and ITE-4403 test sets if telephone company's J24751A set is available.

3.2 Cords

3.21 For use with SD-25187

Amt	ITE	Lgth	Cdrs	One End	Other End	With ITE
1	9598	12'	2	310 Plug	310 Plug	4010
5	9601	12'	3	310 Plug	310 Plug	4023
2	9650	15'	4	396A Plug	Tel. Set	4023
1	9957	8'	15	Jones "	Jones Plug	4010
or						
1	M15B	8'	15	Jones "	Jones Plug	†

† Telephone company equipment.

3.22 For use with ITE-4010

Amt	ITE	Lgth	Cdrs	One End	Other End	With ITE
1	9598	12'	2	310 Plug	310 Plug	4010
13	9601	12'	3	310 Plug	310 Plug	4023
1	9627	12'	3	310 Plug	508A Key	4010
1	9637	12'	3	310 Plug	325A Plug	4010
2	9650	15'	4	396A Plug	Tel. Set	4023
2	9600	12'	3	310 Plug	310 Plug	4010

Cords as provided with ITE-4403

4. TESTS USING SD-25187

4.1 Setup for Test

4.11 Locate the test set at the incoming trunk frame. Patch an ITE-9650 cord into the test set TEL jacks.

4.12 Patch the test set jacks to the incoming trunk frame jacks as follows:

Cords Used	Test Set	Inc. Trk. Frm.	Remarks
ITE-9598	BAT	A	See Note
ITE-9601	INT	INT	
ITE-9601	RTL	TST	
ITE-9601	AC	RC	
ITE-9601	±	E	
ITE-9601	TST	T	DR tests only
ITE-9957	15PT.JCK	15PT.JCK	
or M-15B			MFKP tests only

NOTE: To avoid possible grounding of the battery supply lead, connect the cord to the test set first and when disconnecting remove the cord from the test set last.

4.13 Operate keys as shown in Figure 1.

4.2 Full Selector Trunks

NOTE: When testing trunks common to two office units operate key HF to direct the test call to a test line in the second office unit.

4.21 Test Line Test

4.211 Set up on the numerical keys the directory number of the incoming trunk test line. If lamp NOR is not lighted operate and release key DSC.

4.212 Operate and release key ST. Connection is made to the incoming trunk test line. Lamp SUPV lights. (If the trunk is arranged for delayed ringing, key DRM operated momentarily operate key ±BR or R±BR on alternate cycles.) The test line checks and then trips ringing, and then sends six pulses to check the supervisory relay, (one long, two short, one long and two short). The relay flashes, flashing lamp SUPV. Lamp SUPV may flash once when ringing is tripped.

NOTE: Refer to diagram shown on Test Line Circuit drawing SD-96096 for circuit operation and trunk loop closures in terms of time and test conditions.

4.213 During one cycle of test check that when the test line is seized ringing induction is heard during at least one ringing interval. If the ringing is tripped falsely, rapidly interrupted ringing tone will be received as an indication of this failure.

NOTE: In some cases an additional short flash of lamp SUPV may occur before the first extinguished period.

4.214 If the tests are completed satisfactorily a series of clicks will be received as an indication of a successful test.

4.215 When the test line pulses have been received, make a release test of trunk relay A by operating key AR. If a slow disconnect feature is wired in the trunk and is made operational by local option, a momentary operation of AR key should not release trunk relay A. A subsequent longer operation of key AR should release trunk relay A and the circuit restore. Lamp TST-COMP lights. Operate and release key DSC to restore the test circuit.

TABLE A

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TRUNK CIRCUIT	CLASS OF TRUNK					TRUNK CIRCUIT OPTIONS					TEST SET KEY OPERATIONS	
	RP	BSFD	DP(DT)	DP	MF	A RELAY			T & R	COMP RES	SD-25187	ITE-4010
						OPTION	TYPE	SHUNT				
25295	X					Y	B	T	A	None	IRM	REV, AA, IRM
	X					Z	S	T	A	None	AOS, IRM	REV, AA, IRM, AOS
		X				Y	B	T	A	None	IRB	REV, AA, IRB
		X				Z	S	T	A	None	AOS, IRB	REV, AA, IRB, AOS
			X			Y	B	Tor-	A	None	IRB, DIAL	REV, AA, IRB, (NSH)
			X			Z	S	T	A	None	AOS, IRB, DIAL	REV, AA, IRB, AOS
				X		Y	B	-	A	None	IRB, *	REV, AA, IRB, NSH
					X	Y	B	-	ZA	0-2400	IRB, *	REV, AA, IRB, NSH%
						Y	B	-	ZA	None	IRKP, *	REV, AA, IRK, NSH
						Y	B	-	ZA	0-2400	IRKP, *	REV, AA, IRK, NSH%
25302	X					U	B	ZorF	ZJ	1200	DRM	REV, AA, DRM, 1200
	X					F	S	ZorF	ZJ	2000	AOS, DRM	REV, AA, DRM, AOS, 2000
		X				U	B	ZorF	ZJ	1200	DRB	REV, AA, DRB, 1200
		X				F	S	ZorF	ZJ	2000	AOS, DRB	REV, AA, DRB, AOS, 2000
			X			U	B	Z.F.	ZJ	1200	DRB, DIAL	REV, AA, DRB, 1200 (NSH)
			X			F	S	ZorF	ZJ	2000	AOS, DRB, DIAL	REV, AA, DRB, AOS, 2000
				X		U	B	-	ZJ	1200	DRB, *	REV, AA, DRB, 1200, NSH
					X	U	B	-	ZK	0-2400	DRB, *	REV, AA, DRB, NSH, %
						U	B	-	ZK	1200	DRKP, *	REV, AA, DRK, NSH
						U	B	-	ZK	0-2400	DRKP, *	REV, AA, DRK, NSH, %
25875 or 26204	X					None	UAorAJ	X	YorZ	None	AQUA, IRM	REV, AA, IRM, AQUA
	X					None	UAorAJ	Xor-	YorZ	None	AQUA, IRB	REV, AA, IRB, AQUA, (NSH)
		X				None	UAorAJ	Xor-	YorZ	None	AQUA, IRB, DIAL	REV, AA, IRB, AQUA, (NSH)
			X			None	UAorAJ	Xor-	YorZ	None	AQUA, DIAL, IRKP, *	REV, AA, IRK, AQUA, (NSH)
				X		None	UAorAJ	Xor-	ZorY	None	AQUA, DIAL, IRKP, RS, *	REV, AA, IRK, AQUA, RTR, (NSH)
					X	None	UAorAJ	Xor-	YorZ	0-2400	AQUA, IRKP, *	REV, AA, IRK, AQUA, %, (NSH)
					None	UAorAJ	Xor-	ZorY	0-2400	AQUA, IRKP, RS, *	REV, AA, IRK, AQUA, RTR, %, (NSH)	

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NOTES:

★ Operate key NO 1 TOLL for trunks from toll switchboard No. 1 not equipped with outgoing trunks. Key NO A SH should also be operated when trunk A relay is not shunted.

% Operate 400 - 2400 key according to total amount of compensating resistance specified for trunk.

Operate key W (SD-25187) or WINK (ITE-4010) when wink start pulsing signal is required for dial or multi-frequency class trunks.

4.22 Tip Party Test

4.221 Set up on the numerical keys the directory number of the tip party "return test line". Operate and release key ST. Connection is made to the line and lamp SUPV is lighted. (On DRM trunk tests, operate and release key \pm BR or R \pm BR on alternate cycles to start ringing.) Lamp T- lights.

4.222 Operate key TMR to trip ringing. Lamp SUPV is extinguished.

4.223 Release key TMR and operate and release key AR. When lamp TST COMP lights operate and release key DSC to restore the test circuit to normal.

4.23 Busy Line Test

NOTE: Make this test on alternate cycles with the overflow test.

4.231 Set up on the numerical keys the directory number of the "Busy" line. Operate key ANO. Operate and release key ST. The test call is directed to a busy line number. A nonoperate test is made on relay A. Failure of relay A nonoperate test is indicated by the test being blocked with lamp ANO lighted.

4.232 On first cycle of test check that line busy tone (60 IPM) is heard in the test set telephone set.

4.233 Operate and release key AR. When lamp TST-COMP lights, operate and release key DSC.

4.24 Overflow Test

NOTE: Make this test on alternate cycles with the busy line test.

4.241 Set up on the numerical keys the directory number of the "Overflow" line. Operate and release key ST. The test call is directed to a number arranged to cause the marker to set up an overflow condition in the incoming trunk.

4.242 On the first cycle of test check that overflow tone (120 IPM) is heard in the test set telephone set.

4.243 Operate and release key AR. When lamp TST-COMP lights, operate and release key DSC.

4.3 B Switchboard Trunks

NOTE: When testing trunks that are common to two office units, single order tone is heard. Pass the office code as well as the line number to the B operator.

4.31 The tests (Test Line, Tip Party, Busy Line and Overflow) are made in the same manner as described for full selector trunks except that the line number is not set up on the numerical keys. Key ST is operated and released and after order tone is heard the line number is passed to the B operator. (Key ANO is not operated on Busy Line tests).

4.4 Dial Tone Trunks

NOTE 1: When testing incoming trunks that are common to two office units, low dial tone is heard when four digit numbers are to be dialed. High dial tone is heard when five digit numbers are to be dialed.

NOTE 2: Keys No. 1 TOLL and NO A SH must be normal during this test.

NOTE 3: The following chart is furnished to assist the tester in originating test calls.

Dial Tone	Inc. Trunk	Digits Req.	First Digit	Office Unit
High	Common	5	Odd	A
High	Common	5	Even	B
High	Ind.	5	Any	One
Low	Ind.	4	¢	One

¢ Only four digits (the directory number) are required.

4.41 The tests (Test Line, Tip Party, Busy Line and Overflow) are made in the same manner as described for full selector trunks except that the line number is not set up on the numerical keys. Key ST is operated and released. After dial tone is heard the line number is dialed.

4.42 With delayed ringing trunks operate and release key R \pm BR or \pm BR on alternate cycles immediately after the dial has restored to normal on the last digit dialed. Lamp SU lights between digits and after the last digit.

4.5 Dial Pulsing or MFKP Trunks (Stop-Go or Wink)

NOTE 1: Where the MFKP supply is furnished over conductors from another building, it is advisable to make the test on the incoming trunks at a time when the MFKP senders are not being tested. Since the senders and incoming trunks both use the same supply, tests conducted on both these circuits at the same time may result in delaying the testing operations. Do not use two test sets simultaneously.

NOTE 2: When testing incoming trunks that are common to two office units an office digit must be keyed or dialed immediately before the directory number is registered.

NOTE 3: If battery is on the tip when the trunk is normal key RS is normal. Operate key RS before operating key ST when battery is initially on the ring.

NOTE 4: If the start pulsing or dialing signal is Stop-Go key W is normal. When the start pulsing or dialing signal is Wink key W is operated before operating key ST.

4.51 MFKP

- 4.511 The tests (Test Line, Tip Party, Busy Line and Overflow) are made in the same manner as described for full selector trunks except that the line number is not set up on the numerical keys (TH, H, T, U). Further deviations are as described in the following paragraphs.
- 4.512 After key ST is operated and released a sender is seized and lamp KN lights indicating that the line number may be keyed.
- 4.513 Operate key KP for a period of at least 1/4 second.
- 4.514 Key the line number (see Note 2) on the MFKP numerical key strip making sure to fully depress each key sufficiently to allow for the proper operation of the circuit.
- 4.515 Operate the AV key at the completion of keying. Observe that lamp KN is extinguished.
- 4.516 The remainder of the test parallels the operations described for full select trunks.

4.52 Dial Pulsing

- 4.521 The tests (Test Line, Tip Party, Busy Line and Overflow) are made in the same manner as described for full selector trunks except that the line number is not set up on the numerical keys (TH, H, T, U). Further deviations are described in the following paragraphs.
- 4.522 After key ST is operated and released a sender is seized and lamp KN lights indicating that the line number may be dialed.
- 4.523 Dial the line number. See Note 2.
- 4.524 Operate key AV at the completion of dialing. Observe that lamp KN is extinguished and lamp SUPV lights.
- 4.525 With delayed ringing trunks operate and release key R±BR or ±BR on alternate cycles.
- 4.526 The remainder of the test parallels the operations described for mechanical trunks.

5. TEST USING ITE-4010

NOTE: When testing nonwire spring trunks, the office "busy" line and return test lines associated with outgoing trunk test frame are not used. When checking wire spring incoming trunks, the office "Busy" line is required.

5.1 Setup for Test

- 5.11 Locate the test set at the incoming trunk frame. If MFKP tests are to be made locate ITE-4403 near ITE-4010. Using power cord ITE-9649 furnished with ITE-4403, connect ITE-4403 to a source of 110 volts AC and operate power switch to ON.
- 5.12 Patch ITE-4010 jacks to incoming trunk frame jacks as follows:

<u>Cord Used</u>	<u>Test Set Jack</u>	<u>Inc. Trk. Frm. Jack</u>	<u>Remarks</u>
ITE-9598	A	A	See Note DR tests only
ITE-9601	E	E	

NOTE: To avoid possible grounding of the battery supply lead, connect the cord to the test set first and when disconnecting, remove the cord from the test set last.

5.13 If MFKP tests are to be made connect ITE-4010 MF1 and 2 jacks to ITE-4403 MF1A and 2A jacks respectively. Use ITE-9600 cords provided with ITE-4010.

5.14 Use ten ITE-9601 cords patch test set jacks 0 to 9 to jack T of ten incoming trunks of one trunk group. If there are less than ten trunks in the group omit the cords to the lower numbered test set jacks. Operate and release key ADV to advance the S1 selector to associate it with the lowest numbered jack that is used. The 0 to 9 lamps indicate the position of the selector brushes with relation to jacks 0 to 9.

5.15 When making tip party and busy line (nonwire spring trunk) tests patch an ITE-9601 cord into test set jack T and into a jack of the ITE-2331 jack box. Using jumper wire patch this jack box to another jack box located at the line link frame. Using an ITE-9637 cord patch the second jack box to a cross-connected tip party subscriber line vertical on the line link frame. If tip party service is not provided by the office a single party line may be used. If only four party service is provided either of the two tip party lines may be used.

NOTE: When the incoming trunks are common to two office units one subscriber line to be used for test is to be set up in each office unit.

5.16 Operate keys as shown in Figure 1.

5.2 Full Selector Trunks

NOTE: When testing trunks common to two office units operate key HF to direct the test call to a line in the second office unit.

5.21 Test Line Test

5.211 Operate key TL. Set up on the numerical keys the directory number of the incoming trunk test line. (When testing delayed ringing trunks operate key HB.) If lamp N is not lighted operate and release key RS.

5.212 Operate and release key ST. Lamp N is extinguished. Lamps IB, IG, FB, FT, and FU light as the selections are registered. (A selections failure will be indicated by the lighting of lamp TT. The test set will stop.) Lamp IA lights indicating incoming advance.

(Reverse battery is sent by the terminating sender.) Lamp TC lights indicating that a trunk continuity test is being made. On a successful test, lamp TC is extinguished and an operate test is made on the trunk A relay. Lamp SU lights as connection is made to the incoming trunk test line. (On delayed ringing trunks momentarily operate key \pm or $R\pm$ on alternate cycles. Immediately after lamp SU relights release key HB.) The test line checks and then trips ringing, and then sends six pulses to check the trunk supervisory relay (one long, two short, one long and two short) flashing lamp SU. (If more than six flashes are received, lamp TLF will light. The test set will stop. If less than six flashes are received the test set will stop. Lamp SU may or may not be lighted.

NOTE: Refer to diagram shown on Test Line Circuit drawing SD-96096 for circuit operation and trunk loop closures in terms of time and test conditions.

5.213 After the successful completion of the test line test a test is made for ground on the sleeve of the trunk. Lamp SG lights momentarily. (On delayed ringing trunks reoperate key HB after lamp SG lights and before the start of the next test.) When this test is successfully completed lamp AR lights momentarily as an indication that a release test is being applied to trunk relay A. If a slow disconnect feature is wired in the trunk and made operational by local option, lamp AR should light slightly longer. With this test completed lamp ET lights indicating the end of the test on that particular trunk. The test set partially resets and advances to the next higher numbered trunk. Lamp N may light momentarily. The second trunk is tested in the same manner as the first trunk. The test set continues to advance until tests have been successfully applied to all trunks associated with the test set. After the completion of the test on the last trunk lamps N and O will be lighted.

NOTE: Should the test set stop during any of the tests, indicating trouble, the set may be prevented from advancing to the next trunk by releasing key AA. Another test may then be manually applied to that particular trunk or with key REP operated, tests may be automatically repeated indefinitely.

5.22 Tip Party Test

5.221 Operate keys CB, TPG and set up on the tip parties of a four party line group arranged for full selective service with positive superimposed ringing key FS+ must be operated.

5.222 Operate and release key ST. Lamp N is extinguished. The test set checks that the subscriber line is idle and proceeds to originate a call to that line. Selections, incoming advance, trunk continuity and relay A operate tests are made as on a test line test. Lamp SU lights. (To start ringing on delayed ringing trunk tests momentarily operate key + or R+ on alternate cycles). Connection is made to the tip party line. Lamp TR lights when ringing is tripped.

5.223 Lamp SG now lights and the remainder of the tests are as described for the test line test.

5.23 Busy Line Test

NOTE: Busy line and overflow tests are made on alternate cycles. On the first cycle of each type of test a check should be made to verify that the proper tone, when provided, and rate of interruption is correct.

5.231 Nonwire Spring Incoming Trunks

- (a) These items may be checked by listening in on the test set telephone set.
- (b) Operate key BL and set up on the numerical keys the directory number of the subscriber line patched to jack T.

NOTE: Do not set up the number of the regular office "Busy" line.

- (c) If a tip party line is used, operate key TPG. (See note in Paragraph 4.22). If a prepayment coin line is used, operate key PPC. No additional key operations are required if an individual or a ring party line is used.
- (d) Operate and release key ST. Lamp N is extinguished. The test set makes the line busy and proceeds to originate a call to that line. Selections and incoming advance are made as on a test line test. Lamp ANO lights indicating that a nonoperate test is being applied to trunk relay A. (Failure of this test is indicated by lamp ANO Lighted and Busy Tone (60 IPM) is heard in test set telephone set. On the successful

completion of the nonoperate test the test set proceeds to apply an A relay operate test which when successful, extinguishes lamp ANO and causes busy tone (60 IPM) to be heard in the test set telephone set. Momentarily operate Key AR. The test set proceeds with the sleeve ground test and the remainder of the tests as described for test line test.

5.232 Wire Spring Incoming Trunks

- (a) Operate key TL and set up directory number of office "Busy" line on numerical keys. Do not operate key AA.
- (b) Operate and release key ST. Test call is directed to busy line number. After successful completion of trunk A relay operate test, busy tone (60 IPM) is heard in test set telephone set.
- (c) After checking that busy tone signals are received, operate key AR to check for trunk sleeve ground and A relay release, as described in Paragraph 5.213.

5.24 Overflow Test (See Note in Paragraph 5.23.)

5.241 Operate key OF and set up on the numerical keys the directory number of the line arranged for overflow test.

5.242 Operate and release key ST. The test set advances through selections and applies a continuity and operate test to trunk relay A. The trunk is directed by the marker to set up an overflow condition which causes overflow tone (120 IPM) to be heard in the test set telephone set. Momentarily operate key AR. The test set advances as on a busy line test.

5.3 B Switchboard Trunks

NOTE: When testing incoming trunks that are common to two office units, single order tone is heard. Pass the office code as the line number to the B operator.

5.31 The tests (Test Line, Tip Party, Busy Line and Overflow) are made in the same manner as described for full selector trunks, except that the line number is not set up on the numerical keys. Key ST is operated and released and after order tone is heard the line number is passed to the B operator. (On Busy Line tests the A relay nonoperate test is not made.)

5.4 Dial Tone Trunks

NOTE: The following chart is provided to assist the tester in originating test calls.

Dial Tone	Inc. Trunk	Digits Req.	First Digit	Office Unit
High	Common	5	Odd	A
High	Common	5	Even	B
High	Ind.	5	Any	One
Low	Ind.	4	¢	One

¢ Only four digits (the subscriber line number) are required.

5.41 The tests (Test Line, Tip Party, Busy Line and Overflow) are made in the same manner as described for full selector trunks except that key HB is operated before starting the test and the line number is not setup on the numerical keys. Key ST is operated and released and after dial tone is heard the line number is dialed.

5.42 When testing immediate ringing trunks key HB is released immediately after the dial has restored to normal on the last digit dialed.

5.43 When testing delayed ringing trunks on TL and TPG tests operate and release the ± or the R± key, on alternate cycles, immediately after the dial has restored to normal on the last digit dialed. Immediately after the ringing key is restored to normal restore key HB to normal. When making BL and OF tests restore key HB immediately after the dial has restored to normal on the last digit dialed.

5.44 Lamp SU lights between digits and after the last digit. Reoperate key HB after lamp SG lights and before the start of the next test.

5.5 Dial Pulsing or MFKP Trunks (Stop-Go or Wink Supervision)

NOTE 1: When testing incoming trunks that are common to two office units on an office digit must be dialed or keyed immediately before the directory number is registered.

NOTE 2: If the start pulsing or dialing signal is Stop-Go the WINK key in ITE-4010 should be normal. If the start pulsing or dialing is WINK, operate the WINK key before operating the test set ST key.

NOTE 3: If battery is on tip when trunk is normal, key RTR should be normal. Operate key RTR when battery is initially on ring of trunk.

5.51 The tests (Test Line, Busy Line and Overflow) are made in the same manner as described for full selector trunks except that the line number is not set up on the TH, H, T and U numerical keys. Further deviations are as described in the following paragraphs.

5.52 Operate key HB and then operate and release key ST. When a sender has been seized and is ready for pulsing the KA lamp lights.

5.53 MFKP Trunk: Operate KP key for at least 1/4 second, then key the TH, H, T and U digits of the line number. If trunk is common to two offices key the office digit before the TH digit. Operate and release the AV key at the completion of keying. The KA lamp is extinguished. Release key HB if immediate ringing trunks are being tested. When testing delayed ring trunks TL and TPG tests momentarily operate the ± or the R± key on alternate cycles. When the ringing key is restored release the HB key. With delayed ring trunks BL and OF tests restore the HB key immediately after operating the AV key. The remainder of the test parallels the operations described for full selector trunks. As soon as the SG lamp lights reoperate the HB key before start of test of next trunk.

5.54 Dial Trunks: As soon as the KA lamp lights dial the line number, preceded by the office code if the trunk is common to two offices. On completion of dialing operate and release the AV key. The remainder of the test operations are the same as for MFKP trunks.

Lines presented in Script indicate new or changed information.

Manager, Crossbar Product Engineering
Control Center

Reason for Reissue:

To make changes necessitated by implementation of Flash Removal Program.