MODULAR CONTINUITY VERIFICATION SET FOR TRANSMISSION SYSTEMS (STREAKER)

CONTENTS

1. GENERAL

1.1 The Modular Continuity Verification Test Set was developed to enable the Installer to verify the continuity of Installation wiring between bays equipped for plug-in modules and distributing frames of various transmission systems listed below.

Transmission Systems:
D3 Channel Bank
D3 Channel Bank TPU Unit
T1 Carrier Repeater
A6 Channel Bank
Loop Signal Repeater Single and Double Module (MFT)
F Signaling (FU)
F Signaling (FW)
Range Extender - Gain (Reg) Bay
T1C or T1C/T1 Office Repeater Bay
LMX-3 Group Bank Bay
D4 Channel Bank
G Signaling Bay

1.2 For complete information on method of operation and maintenance testing of ITE-5718, refer to TMO-5718 and WTI-5718 in Handbook 100.

2. TEST EQUIPMENT

2.1 Equipment

Amt.	ITE	Description
1	5718A	Test Accessory Set
1	5718-L	Test Sets for various applications
1	4442A	VOM

2.2 Description of Test Sets

The table on Page 3 specifies the requirement of various lists for checking the continuity of wiring between the transmission systems and distributing frames.

3. PRECAUTIONS

3.1 No cross connections should be connected to the area under test on the distributing frame when the tests described in this section are performed.

3.2 Various lists of ITE-5718 can be used to verify only a certain portion of the equipment wiring. Hence, all remaining wires which are not covered by ITE-5718 must be verified using the appropriate test sets and instructions.

4. OPERATION

4.1 Establish a talk path, if necessary, between the bay/frame under test and the distributing frame. At the bay/frame attach ITE-2260B to a predetermined circuit, such as circuit 1, as follows: connect power leads (-48 volt and ground leads) to the -48 volt and ground terminals of the bay/frame. Connect talk T and R leads to T and R leads of circuit 1.

4.11 At the MDF attach an ITE-2260A to the T and R leads of the same circuit, in this case circuit 1.

4.12 Plug the headsets into the ITE-2260A and the ITE-2260B devices.

4.2 Assemble the set as shown in Figure 1 depending on the type of bay. (See Paragraph 2.2).

NOTE: If the light box is used for display, apply equal pressure on both sides of the light box while plugging it to the particular extender board. Affix the proper designation plate on the light box. Use cable ties around the light box and through the handles of the corresponding extender board in order to secure it properly.

4.3 Plug the appropriate extender board into the first channel of the frame under test.

NOTE 1: Plug the TPU Unit Test Set into each D3 Channel Bank once.

NOTE 2: In case of LMX-3 Group Bank Bay Test Set, the pushbutton switch should have a black color indication during receiving side test (normal position) and a green color indication during transmitting side test (operated position).

NOTE 3: Plug the T1C/T1 Office Repeater equalizer extender board once/bank into equalizer connector while checking channel(s) wiring of that particular bank.

NOTE 4: In case of G Signaling, switch the power/channel pushbutton switch to the power position indicated on the face plate of the test set. Plug the test set into the power slot under testing and start verifying the leads shown on the power side of the face plate. To check the channel leads, switch the power/channel switch to the channel position indicated on the face flate. Plug the test set in the channel slot under testing and start verifying the leads shown on the channel side of the face plate. Finally, in case of G Signaling with no SMAS or G Signaling Stand-alone Bays only, a switch is provided to check that the shorting plugs are properly placed. While probing R1/B at the distributing frame, switch the T/A/E (1) (2)/R/B/M (1) (2) switch from its off position first to the T/A/E (1) (2) position and second to the R/B/M (1) (2) position. In the T/A/E (1) (2) position, LEDs R1/B, T/A/E (1) and T/A/E (2) should go on and in the R/B/M (1) (2) position, LEDs R1/B, R/B/M (1) and R/B/M (2) should go on.

4.4 Connect the alligator clip of the test probe to Central Office (-48V) battery (use -24V battery for LMX-3 Group Bank Bay Test Set) at the distributing frame.

4.5 Probe the leads in a sequence on the proper terminal block(s) at the distributing frame. Watch and verify that appropriate LEDs light at the frame under test.

NOTE: If a wiring error is identified and located during verification, affected lead(s) should be reconnected to the proper termination(s) immediately according to handbook and drawing requirements. If not corrected immediately, leads should be clearly identified with R-3436 Flags and an accurate record kept on SD-97-1313 for further action to be taken.

4.6 Continue the procedure of Paragraphs 4.3 to 4.5 with the next channel or next group of channels until the complete frame is verified.

4.7 Repeat the procedure from Paragraphs 4.3 to 4.6 for the remaining frames.

5. OPERATIONAL TEST

5.1 In the event a faulty lamp is found to be a problem, set up the quick test of the test set system as outlined in Figure 2.

5.2 Ground the ground terminal on the plug-in circuit board. Connect one end of the test probe (alligator clip) to -48V Central Office battery (use -24V battery for LMX-3 Group Bank Bay Test Set). Probe each of the contacts of the plug-in circuit board with the probe at other end of the test probe. The appropriate lamp should light. If it does not, the faulty lamp can be identified. If a faulty lamp is found and a replacement lamp (LED) is available, repair the set. If a failure cannot be easily repaired, return the set to the stockkeeping location for repair.

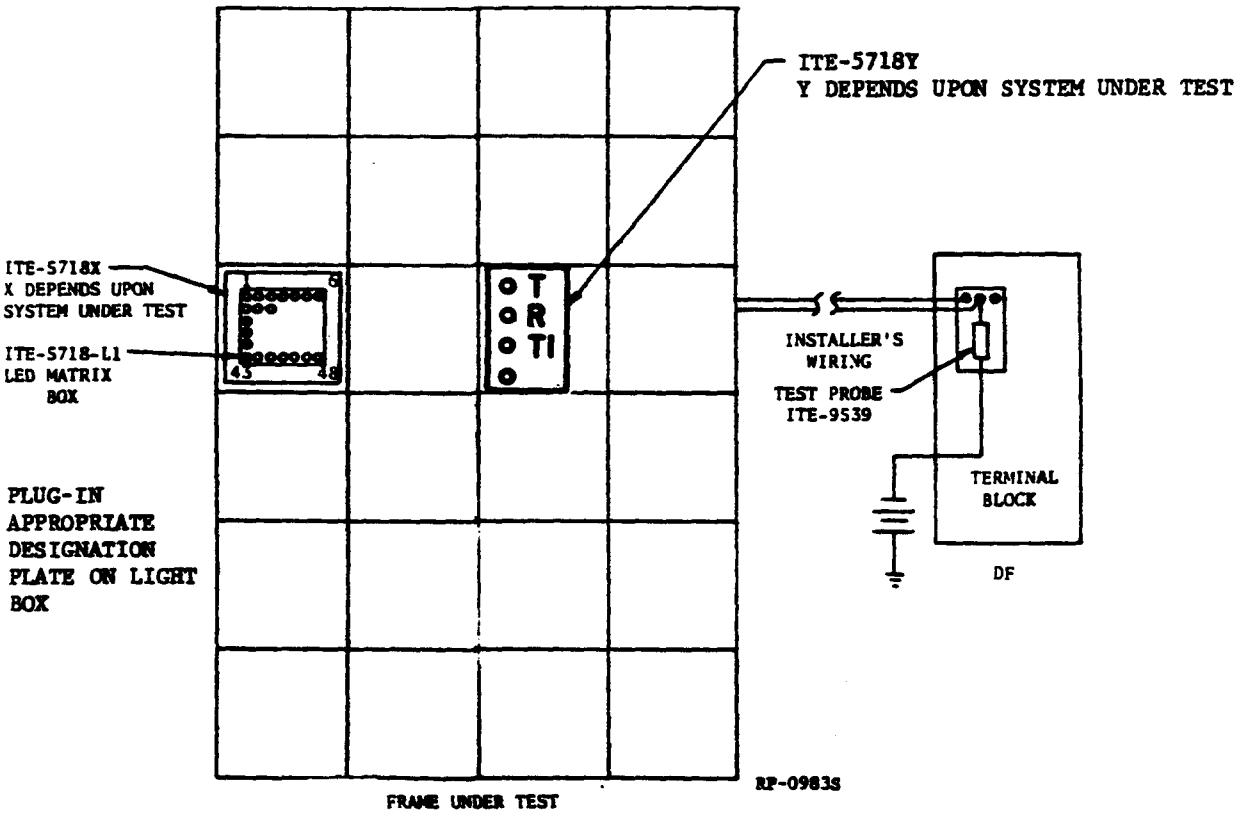
NOTE: Use proper voltage for power indication LED's.

NOTE	DESCRIPTION OF VARIOUS LISTS	LIST NO.	ORDERING NO.	COMCODE NO.	TRANSMISSION SYSTEMS													
					D3 Channel Bank Bays	D3 Channel Repeater Bays	T1 Carrier Repeater Bays	A6 Channel Bank Bays	MFT Bays Double Module	F-Signaling FU Type Bays	F-Signaling FW Type Bays	MFT Bays Single Module	Gain Bays Range-Extender	Bays (SD-3C232-01) T1C Office Repeater	Bays (SD-3C371-01) *T1C/T1 Office Repeater	Bank Bays LMX-3 Group	Bank Bays D4 Channel	G Signaling Bay
1	Light Box	1	33571801	401772702														
	D3 Channel Bank Extender Board	2	32571802	401771548	1													
1	D3 Channel Bank Designation Plate	3	33571803	401798483														
	D3 Channel Bank TFU Unit Test Set	4	32571804	401771555	1													
	T1 Carrier Repeater Extender Board	5	32571805	401771597		1												
1	T1 Carrier Repeater Designation Plate	6	33571806	401798491														
	A6 Channel Bank Extender Board	9	32571809	401771605			1											
1	A6 Channel Bank Designation Plate	10	33571810	401868724														
	Loop Signal Repeater Double Module (MFT) Extender Board	11	32571811	401770623				1										
1	Loop Signal Repeater Double Module (MFT) Designation Plate	12	33571812	401868732														
	F-Signaling (FU Type) Extender Board	13	32571813	401770631						1								
1	F-Signaling (FU Type) Designation Plate	14	33571814	401868740														
	F-Signaling (FW Type) Extender Board	15	32571815	401868757							1							
1	F-Signaling (FW Type) Designation Plate	16	33571816	401868765														
2	Loop Signal Repeater Single Module (MFT) Test Set	21	32571821	401994231								1						
2	Range Extender-Gain Test Set	28	32571828	402157077									1					
2	T1C Or T1C/T1 Office Repeater Test Set	29	32571829	402157085										1	1			
2	LMX-3 Group Bank Bay Test Set	31	32471831	402369797												1		
	T1C/T1 Office Repeater Equalizer Extender Board	32	32571832	402543789											1			
2	G Signaling Test Set	33	32571833	[illegible]														1
2	D4 Channel Bank Bay Test Set	35	32571835	402037956													1	
	ITE-5718A Test Accessory Set	-	62571801	401820113	1	1	1	1	1	1								
1	ITE-9539 Test Probe	-	33953900	401780739														

NOTES: 1. List 1 Light Box, L3, 6, 10, 12, 14, 16 Designation Plates and ITE-9539 Test Probe are parts of the ITE-5718A Test Accessory Set. Same Test Accessory Set can be used for more than one transmission system.

2. The ITE-9539 Test Probe is shipped with each L21, 28, 29, 31, 33, and 35 Test Sets.

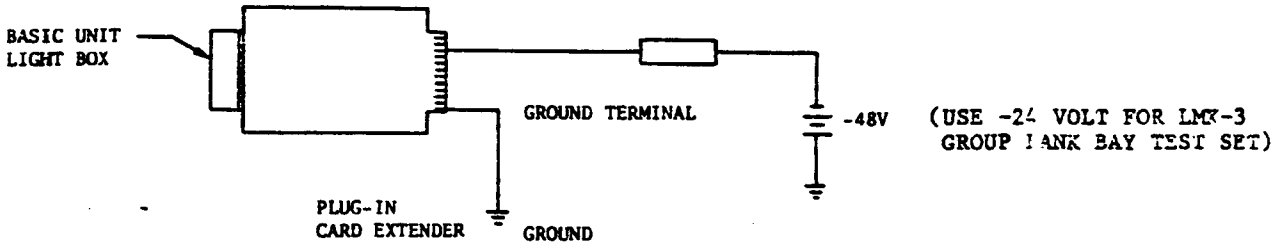
* T1C/T1 Office Repeater Bay requires both L29 and L32.



NOTE: X= L2, L5, L9, L11, L13, and L15 Y= L4, L21, L28, L29, L31, L33, and L35

FIGURE 1

FIG. 1



NOTE: BASIC UNIT LIGHT BOX MUST BE CONNECTED TO LIST 2, 5, 9, 11, 13, 15 ONLY

GROUND TERMINAL NO.	PLUG-IN CARD
26, CKT 4	D3 CHANNEL BANK
26	TPU
7 , CKT 1	T1 CARRIER REPEATER
1 , CKT 4	A6 CHANNEL BANK
18, CKT 1	LOOP SIGNAL REPEATER DOUBLE MODULE (MFT)
8 , CKT 2	F SIGNALING (FU)
8 , CKT 2	F SIGNALING (FW)
18,	LOOP SIGNAL REPEATER SINGLE MODULE (MFT)
1	RANGE EXTENDER GAIN
44	T1C EXTENDER BOARD
26	LMX-3 GROUP BANK BAY
1	D4 CHANNEL BANK
1	G SIGNALING BAY

RP-0983T

FIGURE 2

→Indicates changed or new information.

Engineering Planning Manager
(Installation)

Reason for Reissue:
1) To add ITE-5718-L33, G Signaling Test Set.
2) To indicate that the "streaker" does not cover all the equipment wiring.