SUPPLEMENTARY TEST INSTRUCTION

ORIGINATING MARKER

CONTENTS

1. GENERAL INFORMATION

1.1 This section describes a method of verifying the operation of the Dial Tone First Feature (Apparatus Figures BC and O and "BV" wiring) of the Originating Marker Circuit, SD-25016-01.

1.2 When performing the tests of this section, that relay operation listed in the results column of Paragraph 3 is of primary importance. However, any additional relay operation, which appears to be false, should be investigated.

1.3 After performing the tests of Paragraph 3 and before returning the marker to service, operational tests of existing features are required. See Paragraph 4.

2. TEST EQUIPMENT

2.1 Cords and Accessories

AMT	CODE	DESCRIPTION	WITH
1	ITE-4442	Volt-Ohmmeter	
1	ITE-4137A	Continuity Test Set	32A Kit
As Req.	322A	Make-Busy Plug	ITE-4023

3. SUPPLEMENTARY TESTS

3.1 Verify that the marker is make busy at the Originating Trouble Indicator Frame by inserting a 322A make-busy plug in its DB jack.

3.2 Test Operations

STEP	Block Relay (O) Operated (N) Normal	ACTION	RESULTS
1	DB(O)		CB(R,S,& T) operate; All other relays normal.
2		Verify that the Dial Tone First service cross connections have been installed.	
3		Using the AC buzzer portion of an ITE-4137A, Continuity Test Set, verify continuity (AC buzzer operates) on the test connections shown in Table A.	

TABLE A

SD-25016-01	DCS-25016-98	ITE-4137A ONE END		ITE-4137A OTHER END	
APPARATUS WIRING	FEATURE	CONTACT	RELAY	TERMINAL OR CONTACT	TERMINAL STRIP OR RELAY
Figures BC & O	A	1T	A5	2T	A1
		2T	A5	3T	A4
		3T	A5	4B	A4
		5T	A5	5B	A4
		8T	A5	4T	A4 (at O.M.C.
		9T	A5	33	(T.S. (A)
		1B	A5	3B	A4
		2B	A5	7T	A1
		5B	A5	1T (6B	A2 (A4
		7B	A5	(6B	(C1

TABLE A (Cont.)

SD-25016-01	DCS-25016-98	ITE-4137A ONE END		ITE-4137A OTHER END	
APPARATUS WIRING	FEATURE	CONTACT	RELAY	TERMINAL OR CONTACT	TERMINAL STRIP OR RELAY
NOTE 1: Using an ITE-4442 Volt-Ohmmeter, verify that the 184A or 185A Contact Protection Network connected between contacts 7B and 9T of relay A5 is not open or shorted.					
WIRING JV	A1	1B	A5	8B	11X
WIRING JV and FIGURE AV	A2 & A3	1B	A5	ZO	X.T.X.(D)
WIRING JV and FIGURES A or B	A2 & A4	1B	A5	ZO	X.T.S.(S)
WIRING AV	A3	3B	A5	PS	X.T.S (D)
		4B	A5	DTF	X.T.S.(D)
FIGURES A or B	A4	3B	A5	PS	X.T.S.(S)
		4B	A5	DTF	X.T.S.(S)
FIGURE 3	A5	4T	A5	T	H9
		6T	A5	T	H4
FIGURE 54	A5 & A6	4T	A5	24	T.S.(LLA-ULA)
		6T	A5	4	T.S.(LLA-ULA)
FIGURE 42	A7	7T	A5	4B	TP'
WIRING FW & FC	A8 & A8A	7T	A5	3B	TP
WIRING FW & BF	A8, A8B, A8B1 or A8, A8A, & A8B1	7T	A5	6T	AR
WIRING FW & AV	A8, A8B, A8B2 or A8, A8A, & A8B2	7T	A5	5T	AR
WIRING BV	A9	6B	A5	OF	X.T.S.(D)
WIRING BU	A10	6B	A5	OF	X.T.S.(D)
WIRING BV or BU	A9 or A10	SEE NOTE 2			
NOTE 2: Using the AC buzzer portion of an ITE-4137A, Continuity Test Set, verify that there is no continuity (AC buzzer does not operate) on test connection from contact 1T of relay A2 to terminal OF of X.T.S.(D) with relay A5 blocked operated.					

STEP	Block Relay (O) Operated (N) Normal	ACTION	RESULTS
4		Remove blocking tool from relay DB. Release all electrically operated relays. Remove all test connections at the marker.	

4. OPERATIONAL TESTS

4.1 At the Originating Trouble Indicator, OTI, set up any Non Dial Tone First test call which requires the operation of relay A5. Examples would be any call having the digit 5-9 in the A register.

4.2 Verify that the call completes satisfactorily and that the Route Relay assigned to the Dial Tone First Feature does not operate.

NOTE 3: Refer to Handbook 61, Section 172 for assistance in setting up a test call.

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