IDDD PRETRANSLATOR SD-27849-01
TESTS USING OFFICE TEST FRAME
TEST CIRCUIT SD-27633-01 (J23260)
NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section describes a method of testing IDDD pretranslators SD-27849-01 used with originating registers via the regular pretranslator connector to translate the first three digits of an IDDD call (exclusive of the IDDD prefix).

1.02 The reasons for reissuing this section are listed as follows. Revision arrows are used to emphasize the more significant changes. This reissue does not affect Equipment Test Lists.

(a) To revise all tests to permit the selection of IDDD pretranslators made busy at the office test frame.

(b) To make minor changes as required.

1.03 The tests covered are:

1.04 All tests covered in this section should be made during periods of light traffic.

1.05 All tests are made with the pretranslator ***not*** under test made busy.

1.06 The tests requiring action and/or verification at more than one location are listed in Table A.

1.07 From office records, for each of the transmitting leads listed in Table D, record an associated code which, when translated, will cause that transmitting lead(s) to be grounded. From office records, for each of the incompleted codes listed in Table E, record a code and also the designation of the transmitting leads(s) grounded.

1.08 When performing Tests A through H, the traffic register associated with the originating register APD lead will score on each test call.

1.09 ***Lettered Steps:*** A letter a, b, c, etc, added to a step number in Parts 3 and 4 of this section indicates an action which may or may not be required depending on local conditions. The condition under which a lettered step or a series of lettered steps should be made is given in the ACTION column, and all steps governed by the same condition are designated by the same letter within a test. Where a condition does not apply, all steps designated by that letter should be omitted.

2. APPARATUS

2.01 The apparatus required for each test is listed in Table B. The details of each item are covered in the paragraph indicated by the number in parentheses.

2.02 Office test frame, SD-27633-01 (J23260).

2.03 Trouble indicator and connector circuit, SD-27634-01.

2.04 Blocking and insulating tools. Use tools and apply as covered in Section 069-020-801.

2.05 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one 419A (test connector) tool, and one KS-6278 connecting clip (for making test connections to terminal strip and relay contact springs).

TABLE A

ACTION AND/OR VERIFICATION REQUIRED AT:	TESTS										
	A	B	C	D	E	F	G	H	I	J	K
Office Test Frame (OTF)	√	√	√	√	√	√	√	√			
Trouble Indicator and Connector Circuit (TIC)		√	√	√	√	√	√	√	√	√	
Jack, Lamp, and Key Circuit	√	√	√	√	√	√	√	√	√	√	√
Pretranslator			√	√	√	√	√		√	√	√
Originating Register	√	√	√		√			√			

√ As required

TABLE B

APPARATUS	TESTS										
	A	B	C	D	E	F	G	H	I	J	K
Test Circuit (2.02)	1	1	1	1	1	1	1	1			
Trouble Indicator (2.03)	1	1	1	1	1	1	1	1	1	1	
322A (make-busy) Plug	√	√	√	√	√	√	√	√	√	√	
32A Test Set	1	1									
Blocking and Insulating Tools (2.04)		√	√	√	√	√	√	√	√		√
KS-3008 Stopwatch or Equivalent									1		
Cord (2.05)										1	
Cord (2.06)											1

√ As required

2.06 Testing cord, 893 cord, 6 feet long, equipped with two 360A tools (1W13B cord), one KS-6278 connecting clip, and one 411A (test pick) tool (for making test connections to fuse alarm bar).

2.07 Patching cord, P3E cord, 6 feet long, equipped with two 310 plugs (3P7A cord).

3. PREPARATION

STEP	ACTION	VERIFICATION
	◗*Note:* Refer to paragraphs 1.04 through 1.09.◖	
Tests A Through H		
1	At OTF— Restore all keys and switches.	All lamps extinguished.
2	Set RSG switch to ORB to select originating register group.	MBG lamp lighted (if provided).
3	Set RSS switch to select originating register to be used for test.	
4	Operate FS_ key to select trunk link frame of originating register to be used for test.	
5	Set CST, CSU switches to select noncoin class of service.	
6a	If test call improvement is provided— Operate OTL, MCB, CB, 6D keys.	

STEP	ACTION	VERIFICATION
7b	If test call improvement is not provided— Operate OTL, CB, 6D keys.	
8b	Operate MKR_ key associated with dial tone marker. *Note:* When both dial tone and completing markers are selected, both must be the same, odd or even, if frame is wired per Issue 16D or earlier.	
9	Operate MKR_key associated with a completing marker.	
10	◗Operate PRT_key associated with pretranslator to be tested.◖	
11	Set PS switch to 15 pps, 65 percent break position.	
12	Set L-L switch to position 0.	
13	◗At jack, lamp, and key circuit— Insert make-busy plug into PRTMB_ jack associated with pretranslator under test.	PRT_ lamp lighted.◖
Tests B Through H		
14	At TIC— Momentarily operate RLS key.	All lamps extinguished.
Tests B Through E, G		
15	Operate TIR AR key to release alarms after timed interval.	

4. METHOD

STEP	ACTION	VERIFICATION
A. Translation Feature		
14	At OTF— Set ◗A,B,C◖ DIAL switches to 0, 1, 1 position respectively.	
15	Set ◗D,E,F◖ DIAL switches for first code listed in Table D. *Note:* A0, B1, C1 DIAL switch positions are prefix digits used within the originating register to identify an IDDD station-to-station call.	

STEP	ACTION	VERIFICATION
	▶D,E,F◀ DIAL switches designate the country code and are sent to the pretranslator as A_, B_, C_ digits respectively.	
16	At originating register under test— Insert plug of 32A test set into RC jack.	
17	Momentarily operate white (ST) button on 32A test set.	Observe that PST, PRL, and relays designated the same as grounded transmitting lead(s) operated.
18	Momentarily operate red (RL) button on 32A test set.	Originating register released.
19	Repeat Steps 15, 17, 18 for each remaining code in Table D and then codes in Table E.	
20	Remove plug of 32A test set from RC jack.	
21	▶At jack, lamp, and key circuit— Remove plug from PRTMB_ jack associated with pretranslator under test.	PRT_ lamp extinguished.◀
22	At OTF— Restore all keys and switches.	MBG lamp extinguished (if provided).
B. Open Receiving Lead Check Feature		
16	At OTF— Set ▶A,B,C◀ DIAL switches to 0, 1, 1 position respectively.	
17	Set ▶D,E,F◀ DIAL switches for any code. ***Note:*** A0, B1, C1 DIAL switch positions are prefix digits used within the originating register to identify an IDDD station-to-station call. ▶D,E,F◀ DIAL switches designate the country code and are sent to the pretranslator as A_, B_, C_ digits respectively.	
18a	If test call improvement is provided— At originating register under test— Insert plug of 32A test set into RC jack.	
19a	Block operated CS relay.	
20a	Momentarily operate white (ST) button on 32A test set.	Originating register seized.
21a	When originating register is seized and AS relay operates—	At TIC— Display registered.

STEP	ACTION	VERIFICATION
	Immediately remove blocking tool from CS relay.	PRT_ lamp lighted. PRL, B_ lamps ***not*** lighted.
22a	Momentarily operate RLS key.	Display released.
23a	At originating register under test— Operate red (RL) button on 32A test set.	Originating register released.
24a	Remove plug of 32A test set from RC jack.	
25b	If test call improvement is not provided— At originating register under test— Block operated CS relay.	
26b	At OTF— Operate ST key.	SOS lamps lighted. Dial tone heard.
27b	Operate MCB key.	When dialing is completed— ED lamp lighted. At TIC— Display registered. PRL, B_ lamps ***not*** lighted.
28b	At originating register under test— When originating register is seized and AS relay operates— Immediately remove blocking tool from CS relay.	
29	At OTF— Restore ST key.	All lamps extinguished.
30	⧫At jack, lamp, and key circuit— Remove make-busy plug from PRTMB_ jack associated with pretranslator under test.	PRT_ lamp extinguished.⧫
31	At OTF— Restore all keys and switches.	MBG lamp extinguished (if provided).
32	At TIC— Restore TIR AR key.	
33	Momentarily operate RLS key.	Display released.

C. Open Release Lead Check Feature

16	At OTF— Set ⧫A,B,C⧫ DIAL switches to 0, 1, 1 position respectively.	
17	Set ⧫D,E,F⧫ DIAL switches for any code.	

STEP	ACTION	VERIFICATION
	Note: A0, B1, C1 DIAL switch positions are prefix digits used within the originating register to identify an IDDD station-to-station call. ◗D,E,F◖ DIAL switches designate the country code and are sent to the pretranslator as A_, B_, C_ digits respectively.	
18	At pretranslator under test— Insulate 10B of RLK relay.	
19a	If test call improvement is provided— At OTF— Operate ST key.	At TIC— Display registered. PRT_, PCK, TOK lamps lighted. PRL, RLK lamps ***not*** lighted.
20b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.
21b	Operate MCB key.	When dialing is completed— ED lamp lighted. At TIC— Display registered. PRT_, RCK, TOK lamps lighted. PRL, RLK lamps ***not*** lighted.
22	At TIC— Momentarily operate RLS key.	Display released.
23	At OTF— Restore ST key.	All lamps extinguished.
24b	If test call improvement is not provided— Restore MCB key.	
25	At pretranslator under test— Block operated TR2 relay.	
26a	If test call improvement is provided— At OTF— Operate ST key.	At TIC— Display registered. PRT_, PRL, TR2, PCK, TOK lamps lighted. RLK lamp ***not*** lighted.
27b	If test call improvement is not provided— Operate ST key.	S, OS lamps lighted. Dial tone heard.
28b	Operate MCB key.	When dialing is completed— ED lamp lighted. At TIC— Display registered. PRT_, PRL, TR2, PCK, TOK lamps lighted. RLK lamp ***not*** lighted.

STEP	ACTION	VERIFICATION
29	At TIC— Momentarily operate RLS key.	Display released.
30	At OTF— Restore ST key.	All lamps extinguished.
31b	If test call improvement is not provided— Restore MCB key.	
32	At pretranslator under test— Remove insulator from 10B of RLK relay.	
33	At originating register under test— Insulate 4M of PRL relay.	
34a	If test call improvement is provided— At OTF— Operate ST key.	At TIC— Display registered. PRT_, PRL, TR2, PCK, TOK lamps lighted. RLK lamp ***not*** lighted.
35b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.
36b	Operate MCB key.	When dialing is completed— ED lamp lighted. At TIC— Display registered. PRT_, PRL, TR2, PCK, TOK lamps lighted. RLK lamp ***not*** lighted.
37	Momentarily operate RLS key.	Display released.
38	At OTF— Restore ST key.	All lamps extinguished.
39b	If test call improvement is not provided— Restore MCB key.	
40	At pretranslator under test— Remove blocking tool from TR2 relay.	
41a	If test call improvement is provided— At OTF— Operate ST key.	At TIC— Display Registered. PRT_, PRL, PCK, TOK lamps lighted. RLK lamp ***not*** lighted.
42b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.

STEP	ACTION	VERIFICATION
43b	Operate MCB key.	When dialing is completed— ED lamp lighted. At TIC— Display registered. PRT_, PRL, PCK, TOK lamps lighted. RLK lamp ***not*** lighted.
44	Momentarily operate RLS key.	Display released.
45	At OTF— Restore ST key.	All lamps extinguished.
46	At originating register under test— Remove insulator from 4M of PRL relay.	
47	◗At jack, lamp, and key circuit— Remove make-busy plug from PRTMB_ jack associated with pretranslator under test.	PRT_ lamp extinguished.◖
48	At OTF— Restore all keys and switches.	MBG lamp extinguished (if provided).
49	At TIC— Restore TIR AR key.	

D. Open Transmitting Lead Check Feature

16	At OTF— Set ◗A,B,C◖ DIAL switches to 0, 1, 1 position respectively.	
17	Set ◗D,E,F◖ DIAL switches for code which, when translated, grounds CM3 transmitting lead only. (Refer to Table D or E.) ***Note:*** A0, B1, C1 DIAL switch positions are prefix digits used within the originating register to identify an IDDD station-to-station call. ◗D,E,F◖ DIAL switches designate the country code and are sent to the pretranslator as A_, B_, C_ digits respectively.	
18	At pretranslator under test— Insulate 12B of LKT relay.	
19a	If test call improvement is provided— At OTF— Operate ST key.	At TIC— Display registered. PRT_, PCK, TOK lamps lighted. CM3, PRL, RLK lamps ***not*** lighted.

STEP	ACTION	VERIFICATION
20b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.
21b	Operate MCB key.	When dialing is completed— ED lamp lighted. At TIC— Display registered. PRT_, PCK, TOK lamps lighted. CM3, PRL, RLK lamps ***not*** lighted.
22	Momentarily operate RLS key.	Display released.
23	At OTF— Restore ST key.	All lamps extinguished.
24b	If test call improvement is not provided— Restore MCB key.	
25	At pretranslator under test— Block operated TR2 relay.	
26	At OTF— Set ⧫D,E,F⧫ DIAL switches for code which, when translated, grounds CMA, CMB or CMC transmitting lead only. (Refer to Table D or E.)	
27a	If test call improvement is provided— At OTF— Operate ST key.	At TIC— Display registered. PRT_, TR2, PCK, TOK lamps lighted. CM_, PRL, RLK, PTR lamps ***not*** lighted.
28b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.
29b	Operate MCB key.	When dialing is completed— ED lamps lighted. At TIC— PRT_, TR2, PCK, TOK lamps lighted. CM_, PRL, RLK, PTR lamps ***not*** lighted.
30	Momentarily operate RLS key.	Display released.
31	At OTF— Restore ST key.	All lamps extinguished.
32b	If test call improvement is not provided— Restore MCB key.	

STEP	ACTION	VERIFICATION
33	Repeat Steps 25 through 32b for each CM_ transmitting lead.	
34	Set ◗D,E,F◖ DIAL switches for code which, when translated, grounds SD and CMB or SD CMA transmitting leads. (Refer to Table D or E.)	
35	At pretranslator under test— Remove insulator from 12B of LKT relay, insulate 10B of LKT relay.	
36a	If test call improvement is provided— At OTF— Operate ST key.	At TIC— Display registered. PRT_, CM_, TR2 lamps lighted. SD, PRL, RLK, lamps ***not*** lighted.
37b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.
38b	Operate MCB key.	When dialing is completed— ED lamp lighted. At TIC— Display registered. PRT_, CM_, TR2, TOK lamps lighted. SD, PRL, RLK lamps ***not*** lighted.
39	Momentarily operate RLS key.	Display released.
40	At OTF— Restore ST key.	All lamps extinguished.
41	At pretranslator under test— Remove insulator from 10B of LKT relay.	
42	Remove blocking tool from TR2 relay.	
43	◗At jack, lamp, and key circuit— Remove make-busy plug from PRTMB_ jack associated with pretranslator under test.	PRT_ lamp extinguished.◖
44	At OTF— Restore all keys and switches.	MBG lamp extinguished (if provided).
45	At TIC— Restore TIR AR key.	

STEP	ACTION	VERIFICATION
E.	**No Locking Ground on Transmitting Lead Check Feature**	
16	At OTF— Set ◗A,B,C◖ DIAL switches to 0, 1, 1 position respectively.	
17	Set ◗D,E,F◖ DIAL switches for code which, when translated, grounds CM3 transmitting lead only. (Refer to Table D or E.) ***Note:*** A0, B1, C1 DIAL switch positions are prefix digits used within the originating register to identify an IDDD station-to-station call. ◗D,E,F◖ DIAL switches designate the country code and are sent to the pretranslator as A_, B_, C_ digits respectively.	
18	At originating register under test— Insulate contacts of following relays: 10M of CM3 10M of CMA 10M of CMB 12M of CMC 10M of SD	
19a	If test call improvement is provided— At OTF— Operate ST key.	At TIC— Display registered. PRT_, RLK, TOK lamps lighted. CM3 lamp ***not*** lighted.
20b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamp lighted. Dial tone tone heard.
21b	Operate MCB key.	When dialing is completed— ED lamp lighted. At TIC— Display registered. PRT_, RLK, TOK lamps lighted. CM3 lamp ***not*** lighted.
22	Momentarily operate RLS key.	Display released.
23	At OTF— Restore ST key.	All lamps extinguished.
24b	If test call improvement is not provided— Restore MCB key.	
25	At pretranslator under test— Block operated TR2 relay.	

STEP	ACTION	VERIFICATION
26	At OTF— Set ⧫D,E,F⧫ DIAL switches for code which, when translated, grounds CMA, CMB or CMC transmitting lead only. (Refer to Table D or E.)	
27a	If test call improvement is provided— At OTF— Operate ST key.	At TIC— Display registered. PRT_, RLK, TR2, PRL, TOK lamps lighted. CM_ lamp ***not*** lighted.
28b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.
29b	Operate MCB key.	When dialing is completed— ED lamp lighted. At TIC— Display registered. PRT_, RLK, TR2, PRL, TOK lamps lighted.
30	Momentarily operate RLS key.	Display released.
31	At OTF— Restore ST key.	All lamps extinguished.
32b	If test call improvement is not provided— Restore MCB key.	
33	Repeat Steps 26 through 32b for each CM_ transmitting lead.	
34	Set ⧫D,E,F⧫ DIAL switches for code which, when translated, grounds SD and CMB or SD and CMA transmitting leads. (Refer to Table D or E.)	
35a	If test call improvement is provided— At OTF— Operate ST key.	At TIC— Display registered. PRT_, RLK, TR2, PRL, TOK lamps lighted. SD, CM_ lamps ***not*** lighted.
36b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.
37b	Operate MCB key.	When dialing is completed— ED lamp lighted. At TIC— PRT_, RLK, TR2, PRL, TOK lamps lighted. SD, CM_ lamps ***not*** lighted.

STEP	ACTION	VERIFICATION
38	Momentarily operate RLS key.	Display released.
39	At OTF— Restore ST key.	
40	At originating register under test— Remove insulators from the following relay contacts: 10M of CM3 10M of CMA 10M of CMB 12M of CMC 10M of SD	
41	At pretranslator under test— Remove blocking tool from TR2 relay.	
42	▶At jack, lamp, and key circuit— Remove make-busy plug from PRTMB_ jack associated with pretranslator under test.	PRT_ lamp extinguished.◀
43	At OTF— Restore all keys and switches.	
44	At TIC— Restore TIR AR key.	MBG lamp extinguished (if provided).

F. Open Trouble Release Lead Check Feature

15	At OTF— Set ▶A,B,C◀ DIAL switches to 0, 1, 1 position respectively.	
16	Set ▶D,E,F◀ DIAL switches for code which, when translated, grounds CM3, CMA, CMB or CMC transmitting lead only. (Refer to Table D or E.) ***Note:*** A0, B1, C1 DIAL switch positions are prefix digits used within the originating register to identify an IDDD station-to-station call. ▶D,E,F◀ DIAL switches designate the country code and are sent to the pretranslator as A_, B_, C_ digits respectively.	
17	At pretranslator under test— Insulate 12B of LKT relay and 8M of TRB1 relay.	
18a	If test call improvement is provided— At OTF— Operate ST key.	Minor alarm sounds. At TIC— Display registered.

STEP	ACTION	VERIFICATION
		PRT_, PCK, TOK lamps lighted. RLK lamp ***not*** lighted. At jack, lamp and key circuit— TRR lamp lighted.
19b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.
20b	Operate MCB key.	When dialing is completed— ED lamp lighted. Minor alarm sounds. At TIC— Display registered. PRT_, PCK, TOK lamps lighted. At jack, lamp, and key circuit— TRR lamp lighted.
21	At TIC— Momentarily operate RLS key.	Display released.
22	Momentarily operate TIR AR key.	Minor alarm silenced. At jack, lamp, and key circuit— TRR lamp extinguished.
23	At OTF— Restore ST key.	All lamps extinguished.
24	If test call improvement is not provided— Restore MCB key.	
25	At pretranslator under test— Remove insulator from 8M of TRL; insulate 3M of TR2.	
26	Block operated TR2.	
27	Block nonoperated TRL.	
28a	If test call improvement is provided— At OTF— Operate ST key.	Major alarm sounds. At TIC— Display registered. PRT_, TR2, PCK, TOK lamps lighted. PRL, RLK lamps ***not*** lighted. At jack, lamp, and key circuit— TRR lamp lighted.
29	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.

STEP	ACTION	VERIFICATION
30	Operate MCB key.	When dialing is completed— ED lamp lighted. Major alarm sounds. At TIC— PRT, TR2, PCK, TOK lamps lighted. PRL, RLK lamps not lighted. At jack, lamp, and key circuit— TRR lamp lighted.
31	At OTC— Momentarily operate RLS key.	Display released.
32	Momentarily operate TIR AR key.	Major alarm silenced. At jack, lamp, and key circuit— TRR lamp extinguished.
33	At OTF— Restore ST key.	All lamps extinguished.
34	At pretranslator under test— Remove blocking tools from TRL and TR2 relays.	
35	Remove insulators from 12B or LKT and 3M of TR2 relays.	
36	◗At jack, lamp, and key circuit— Remove make-busy plug from PRTMB_ jack associated with pretranslator under test.	PRT_ lamp extinguished.◖
37	At OTF— Restore all keys and switches.	MBG lamp extinguished (if provided.)

G. Transfer Start Feature

16	At OTF— Set ◗A,B,C◖ DIAL switches to 0, 1, 1 position respectively.	
17	Set ◗D,E,F◖ DIAL switches for any code. ***Note:*** A0, B1, C1 DIAL switch positions are prefix digits used within the originating register to identify an IDDD station-to-station call. ◗D,E,F◖ DIAL switches designate the country code and are sent to the pretranslator as A_, B_, C_ digits respectively.	
18	At pretranslator connector associated with pretranslator under test— Block operated TRS relay.	

STEP	ACTION	VERIFICATION
19a	If test call improvement is provided— At OTF— Operate ST key.	At TIC— Display registered. PRT_, TRS, PCK, TOR lamps lighted.
20b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.
21b	Operate MCB key.	When dialing is completed— ED lamp lighted. At TIC— Display registered. PRT_, TRS, PCK, TOK lamps lighted.
22	Momentarily operate RLS key.	Display released.
23	At OTF— Restore ST key.	All lamps extinguished.
24	At pretranslator connector associated with pretranslator under test— Remove blocking tool from TRS relay.	
25	◗At jack, lamp, and key circuit— Remove make-busy plug from PRTMB_ jack associated with pretranslator under test—	PRT_ lamp extinguished.◖
26	At OTF— Restore all keys and switches.	
27	At TIC— Restore TIR AR key.	

H. Display Lost Feature

15	At TIC— Insert make-busy plug into TIC_MB PRT_ jack associated with pretranslator under test.	
16	At originating register under test— Block nonoperated PRL relay.	
17	At OTF— Set ◗A,B,C◖ DIAL switches to 0, 1, 1 positions respectively.	
18	Set ◗D,E,F◖ DIAL switches for any code. ***Note:*** A0, B1, C1 DIAL switch positions are prefix digits used within the originating register to identify an IDDD station-to-station call. ◗D,E,F◖ DIAL switches designate the country	

STEP	ACTION	VERIFICATION
	code and are sent to the pretranslator as A_, B_, C_ digits respectively.	
19a	If test call improvement is provided— At OTF— Operate ST key.	Minor alarm sounds AT TIC— PRT_DL lamp lighted. At jack, lamp, and key circuit— TRR lamp lighted.
20b	If test call improvement is not provided— At OTF— Operate ST key.	S, OS lamps lighted. Dial tone heard.
21	Operate MCB key.	When dialing is completed— ED lamp lighted. Minor alarm sounds. At TIC— PRT_DL lamp lighted. At jack, lamp, and key circuit— TRR lamp lighted.
22	At TIC— Momentarily operate TIR AR key.	Minor alarm silenced. PRT_DL lamp extinguished. At jack, lamp, and key circuit— TRR lamp extinguished.
23	At OTF— Restore ST key.	All lamps extinguished.
24	At originating register under test— Remove blocking tool from PRL relay.	
25	At jack, lamp, and key circuit— Remove make-busy plug from PRTMB_ jack associated with pretranslator under test—	PRT_ lamp extinguished.
26	At TIC— Remove make-busy plug from TIC_MB PRT_ jack.	
27	At OTF— Restore all keys and switches.	MBG lamp extinguished (if provided).
I. Work Timer and Trouble Recorder Timer Features		
1	At TIC— Insert make-busy plug into TIC_MB PRT_ jack associated with pretranslator under test.	
2	At jack, lamp, and key circuit— Insert make-busy plug into PRTMB_ jack associated with pretranslator under test.	PRT_ lamp lighted.

STEP	ACTION	VERIFICATION
3	At pretranslator frame— Block nonoperated TR relay.	
4	Manually operate RLK relay; ***start timing.***	In 0.2 to 0.4 seconds— WT relay operated.
5	Release RLK relay.	
6	Remove blocking tool from TR relay.	
7	Block operated RLK relay; ***start timing.***	In 2.2 to 3.4 seconds— Major alarm sounds. TRT_ lamp lighted.
8	Remove blocking tool from RLK relay.	
9	Momentarily operate AR key.	Major alarm silenced. TRT_ lamp extinguished.
10	At TIC— Remove make-busy plug from TIC_MB PRT_ jack associated with pretranslator tested.	
11	▶At jack, lamp, and key circuit— Remove make-busy plug from PRTMB_ jack associated with pretranslator under test—	PRT_ lamp extinguished.◀

J. Trouble Detection Feature for False Ground or Crosses

1	At TIC— Momentarily operate RLS key.	All lamps extinguished.
2	Operate TIR AR key.	
3	▶At jack, lamp, and key circuit— Insert make-busy plug into PRTMB_ jack associated with pretranslator under test.	PRT_ lamp lighted.◀
4	At pretranslator under test— For first lead provided in Table C, momentarily ground the indicated relay contact.	At TIC— Display registered. PRT_, XX lamps lighted.
5	Momentarily operate RLS key.	
6	Repeat Steps 4 and 5 for each lead in Table C.	
7	At jack, lamp, and key circuit— Remove make-busy plug from PRTMB_ jack associated with pretranslator under test—	PRT_ lamp extinguished.

STEP	ACTION	VERIFICATION
8	At TIC— Restore TIR AR key.	

TABLE C

LEAD UNDER TEST	GROUND RELAY CONTACTS
SD	8 F of CME
CM3	6 F of CM3
CMA	6 F of CME
CMB	6 F of CMD
CMC	6 F of CMC
PTR	6 F of FA1
PRL	2 F of TRT
RLK	4 F of TRT

K. Make-Busy Feature

1	At jack, lamp, and key circuit— Insert make-busy plug into PRTMB_ jack associated with pretranslator under test.	PRT_ lamp lighted. At pretranslator under test— MB relay operated.
2	Momentarily connect battery to fuse alarm bar associated with pretranslator under test.	FA1 relay operated.
3	▶At jack, lamp, and key circuit— Remove make-busy plug from PRTMB_ jack associated with pretranslator under test—	PRT_ lamp extinguished.◀ At pretranslator under test— FA1, MB relays remain operated.
4	Insulate 3M and 5M of TR relay.	
5	Block operated TR relay.	
6	Momentarily operate AR key.	FA1 relay released. MB relay remains operated.
7	Block operated TRL relay.	
8	Remove blocking tool and then insulators from TR relay.	MB relay remains operated.
9	Block operated TRB1 relay.	
10	Remove blocking tool from TRL relay.	MB relay remains operated.

STEP	ACTION	VERIFICATION
11	Block operated the first pretranslator connector PCA_ relay associated with pretranslator under test.	
12	Remove blocking tool from TRB1 relay.	MB relay remains operated.
13	Block operated the second pretranslator connector PCA_ relay associated with pretranslator under test.	
14	Remove blocking tool from first PCA_ relay.	MB relay released.

TABLE D

TRANSMITTING LEAD(S) GROUNDED	CODE*		
	A	B	C
None			
CM3			
CMA			
CMB			
CMC			
SD & CMA			
SD & CMB			

* When a 2-digit country code is required to cause the transmitting lead(s) to be grounded, list an arbitrary number for C digit.
When a 1-digit country code is required to cause the transmitting lead to be grounded, list arbitrary numbers for B and C digits.

TABLE E

CODE*			TRANSMITTING LEAD(S) GROUNDED	CODE†			TRANSMITTING LEAD(S) GROUNDED	CODE‡			TRANSMITTING LEAD(S) GROUNDED
A	B	C		A	B	C		A	B	C	
1					0					0	
2					1					1	
3					2					2	
4					3					3	
5					4					4	
6					5					5	
7					6					6	
8					7					7	
9					8					8	
					9					9	

* For 2-digit country codes list an arbitrary number for C digit.
For 1-digit country codes list arbitrary numbers for B and C digits.

† Use this column for 2 and 3-digit country codes.
For 2-digit country codes list an arbitrary number for C digit.

‡ Use this column for 3-digit country codes only.