

CONFERENCE CONTROL CIRCUIT

TEST USING

Return to B. S. P. Coordinator

TEST SET DS-21801

This Practice Released on: .....

NO. 5 CROSSBAR OFFICES

List = *of 10* Date *10-21-65*

B. S. P. M. # ..... O. & E. List # .....

1. GENERAL

1.01 This section describes a method of testing conference control circuit ST 521161 using Test Set DS 21801 in No. 5 XBR offices.

1.02 The tests covered are:

A. Attendant Seizure: The following features are tested:

- (1) Seizure indication returned to attendant.
- (2) Use of first two line link appearances.
- (3) Check of transmission before and after being connected to the common bus between attendant and connected lines.
- (4) Attendant release.
- (5) Conferee release, releasing control circuit.

B. Recall, Timed Release: The following features are tested:

- (1) The ability of the control ckt. to recall the attendant by visual and audible means when signaled by either the first or second conferee.
- (2) If either the first or second conferee disconnects, the control circuit will time for two to five seconds before releasing.

C. Test all Lines: The following features are tested:

- (1) Checks that all conferees have two way transmission before and after being connected to the common bus.
- (2) Checks that when the attendant attempts to connect an additional line after all lines are in use, the control circuit will change the flashing of the conference lamp at the console to indicate all lines are in use.

(3) Checks that when signalled by the attendant the control circuit will release all conferees.

D. Incoming Seizure: The following features are tested:

- (1) Checks the ability of the control circuit to be seized on an incoming basis.
- (2) Checks that the second line can be connected to an outgoing trunk.

E. ON Relay Release: This test checks the ability of the control circuit to release if one of five conferees remain.

1.04 Local instructions should be followed with reference to notifying the customer before and after performing all tests.

1.05 A letter "a" added to a step number of this section, indicates an action which may or may not be required.

2.- TEST EQUIPMENT

Tests A through G

2.01 Test set DS-21801.

2.02 2 - P3E test cords.

2.03 TOUCH-TONE telephone set, equipped with 310 plug.

2.04 Centrex test jacks #1 and #2 located at the Master Test Frame jack by ST 521130.

2.05 2 - 1011G dial hand test set equipped with 310 plug to patch into the #1 and #2 centrex test jacks.

Test B and D

2.06 KS-3008 Stopwatch or equivalent.

Test C and E

2.07 Blocking and insulating tools as required.

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3. PREPARATION

3.01 At conference control circuit operate MB switch. Observe that the CA relay releases. TK LAMP LIGHTS AT TEST SET.

3.02 At conference control circuit jacks TST1 and TST2 patch to corresponding jacks of the test set using P3E cords.

3.03 Plug the test set A.C. line cord into a convenient A.C. outlet.

3.04 Plug the TOUCH-TONE telephone set into the test set TEL jack.

3.05 At the master test frame plug hand test sets into Centrex Test jacks #1 and #2. (Check that switch of handsets are on MON).

4. METHOD

A. ATTENDANT SEIZURE

STEP	ACTION	VERIFICATION
1	At test set operate TK key momentarily.	TK lamp flashes at 30 IPM.
2	Operate STF key momentarily.	Dial tone heard.
3	Key A-through E-digits as required, corresponding to Centrex test Line #1.	Dial tone silenced. Ringing tone heard. At master test frame - ringing tone heard at jack #1.
4	At test jack #1 operate switch of handset to TLK.	At test set - Ringing tone silenced. Transmission path established.
5	Operate ST key momentarily.	Transmission path remains between test jack #1 and test set.
6	Operate momentarily STF key.	Dial tone heard.
7	Key A-through E-digits as required, corresponding to Centrex jack #2.	Dial tone silenced. Ringing tone heard. At master test frame - ringing tone heard at jack #2.
8	At test jack #2 operate - switch of handset to TLK.	At test set - ringing tone silenced. Transmission path established.
9	Operate ST key momentarily.	Transmission path established between test jack #1 and #2 and test set.
10	Operate END key momentarily.	Transmission path removed to test set but remains between test #1, test #2 handsets.
11a	If test-B is to be performed, leave connections established and do not perform step 11 of test B.	
12a	If no further tests are to be performed, remove test equipment.	
13a	Operate MB switch to N.	

STEP	ACTION	VERIFICATION
Destination Recall: <b>B. TIMED RELEASE: (FIRST AND SECOND CONFEREES)</b>		
11	Perform steps 1 through 10 of Test A.	
12	At master test frame - At test jack #1 operate momentarily switch of handset to MON for 1/2 to 1-1/2 seconds.	At test set - Buzzer sounds, TK lamp flashes at 60 IPM.
13	Operate TK key momentarily.	Buzzer silenced. TK lamp flashes at 30 IPM. Transmission re-established from test set to handsets.
14	Operate END key momentarily.	Transmission path removed from test set but remains between Test #1 and Test #2 handsets.
15	At master test frame - At test jack #1 operate switch of handset to MON.	In 2 to 5 seconds TK lamp goes steady.
16	At master test frame - At test jack #2 operate switch of handset to MON.	
17	Repeat steps 1 through 10 - of test A.	
18	At master test frame - At test jack #2 operate switch of handset to MON for 1/2 to 1-1/2 seconds.	At test set - Buzzer sounds. TK lamp flashes at 60 IPM.
19	Operate TK key momentarily.	Buzzer silenced - TK lamp flashes at 30 IPM. Transmission re-established from test set to handsets.
20	Operate END key momentarily.	Transmission path removed from test set but remains between Test #1 and Test #2 handsets.
21	At master test frame - At test jack #2 operate switch of handset to MON.	In 2 to 5 seconds TK lamp goes steady.
22	At master test frame - At test jack #1 operate switch of handset to MON.	
23a	If no further tests are to be performed, remove test equipment.	
24a	Operate MB switch to N.	
<b>C. TEST ALL LINES</b>		
10	Perform steps 1 through 9 of test A.	
11	At relay rack frame - block non-operated relay WB.	

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STEP	ACTION	VERIFICATION
12	At master test frame - At test jack #2 operate switch of handset to MON.	
13	At relay rack frame - block operated TC relay.	
14	At test set operate STF key momentarily.	Dial tone heard
15	Key A - through E - digits re- quired, corresponding to centrex jack #2.	Dial tone silenced. Ringing tone heard. At master test frame ring- ing tone heard at jack #2.
16	At test jack #2 operate switch of handset to TLK.	At test set - ringing tone silenced, transmission path established.
17	Operate ST key momentarily.	Transmission path established be- tween test jack #1 and #2 and test set.
18	At relay rack frame - block operated TD relay.	
19	At master test frame. At test jack #2 operate switch of handset to MON.	
20	Repeat steps 14 through 17.	
21	At relay rack frame. Block operated relay TE.	
22	At master test frame. At test jack #2 operate switch of handset to MON.	
23	Repeat steps 14 through 17.	
24	At test set operate - STF key momentarily.	TK lamp flashes at 60 IPM.
25	Operate RLF key momentarily.	TK lamp flashes at 30 IPM.
26	Operate ST key momentarily.	Transmission re-established be- tween test jack #1 and #2 and test set.
27	At test set - operate RDT key momentarily.	Transmission path disconnected between test jack #1 and #2 and test set.
28	Operate END key momentarily.	TK lamp steady.
29	At master test frame. At test jack #1 and #2 operate switch of handsets to MON.	
30	At relay rack remove blocking tools from relays WB, TC, TD, TE.	
31a	If no further tests are to be per- formed, remove test equipment.	
32a	Operate MB switch to N.	

STEP	ACTION	VERIFICATION
<b>D. INCOMING SEIZURE:</b>		
1	At master test frame - Restore all keys, set switches to OFF.	
2	Operate RL key momentarily.	All lamps extinguished.
3	Operate MISC. TLK, X11 keys.	
4	Operate MT-key or set MT switch as required to select completing marker.	
5	Operate CST-, CSU, keys, CGB or CSGA/CSGB and CRU- keys, as required to select class-of-service, rate treatment (if required) having access to circuit under test.	
6	Operate A- through E- keys as re- quired, corresponding to conference control circuit under test.	
6a	At relay rack operate MB switch to N.	
7	Operate ST key momentarily.	AS, MRL lamps light. Ringing heard. At test set - TK lamp flashes at 60 IPM. Buzzer sounds.
8	Operate TK key momentarily.	Buzzer silenced. TK lamp flashes at 30 IPM. At master test frame. Ringing silenced. Transmission path established between master test frame and test set.
9	At test set - operate ST key momentarily.	Transmission path remains con- nected between master test frame and test set.
10	Operate STF key momentarily.	Dial tone heard.
11	Key digit 9.	Dial tone heard.
12	Key A through G digits (7 digits) corresponding to Test jack #1.	Dial tone silenced. Ringing tone heard at master test frame. Ringing tone heard at jack #1.
13	At test jack #2 operate switch of handset to TLK.	Ringing silenced. Transmission path established between test set and test jack #1.
14	At test set - operate ST key momentarily.	Transmission path established be- tween test set, test jack #1 and master test control.
15	Operate END key momentarily.	Transmission path remains between test jack #1 and master test control.
16	At master test frame - at test jack #1 operate switch of hand- set to MON.	In 15 to 30 seconds at test set. TK lamp dark.

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STEP	ACTION	VERIFICATION
17	At master test frame - operate RL key momentarily.	All lamps extinguished.
18a	If no further tests are to be performed, remove test equipment.	
19a	Operate MB switch to N.	
<b>E. ON RELAY RELEASE:</b>		
1	Insulate contact 8B of RS relay.  Caution: When insulating moveable springs of wire-spring relays, use care not to dislodge the moveable spring from the groove of the comb.	
2	Block operated A1 relay.	ON relay remains released.
3	Block operated B1 relay.	ON relay operates.
4	Remove blocking tool from A1 relay.	ON relay releases.
5	Block operated C1 relay.	ON relay operates.
6	Remove blocking tool from B1 relay.	ON relay releases.
7	Block operated D1 relay.	On relay operates.
8	Remove blocking tool from C1 relay.	ON relay releases.
9	Block operate E1 relay.	ON relay operates.
10	Remove blocking tool from D1 relay.	ON relay releases.
11	Remove blocking tool from E1 relay.	
12	Remove insulator from 8B of RS relay.	
13a	If no other tests are to be performed, - Operate MB switch to N.	