

SWITCHING SYSTEM NO. 400

JUNCTOR CIRCUITS

OPERATION TESTS

1.00 GENERAL

1.01 This test requires that actions and verifications be performed at the equipment and at a dial station.

1.02 This section covers the following tests:

- Junctor seizure.
- Ringing to called station.
- Audible ringing tone to calling station.
- Reverse battery supervision (click), and cut through when called station answers.
- Talking battery supply.
- Busy indication to marker until both stations disconnect.

1.03 Directing a call to a specific junctor requires that all junctors other than the one selected for test be made busy. This will result in the inability of the system to establish a junctor-type call during the time required to perform Steps 3 through 6.

1.04 Table A provides switch and relay mounting plate locations required for testing a junctor.

3.00 METHOD

STEP

ACTION

VERIFICATION

1 Operate hand test set key to MON.

2 In slide 2:  
 Connect hand test set to test line.

Note: Perform Steps 3 through 6 as quickly as possible (see 1.03).

3 In slide 3:  
 Make all idle junctors busy except junctor required for test by blocking associated D relays operated.

TABLE A

JUNCTOR LOCATIONS IN SLIDE 3

Junctor	Switch No.	Vert No.	Hold Magnet Desig	Relay Mtg Plt	
0	Orig Term.	0	0	HM00	1
			1	HM01	
1	Orig Term.		2	HM02	
			3	HM03	
2	Orig Term.		4	HM04	8
3	Orig Term.		5	HM05	
		6	HM06		
4	Orig Term.	1	7	HM07	
			2	HM11	
5	Orig Term.	1	3	HM12	
			4	HM13	
			4	HM14	

2.00 APPARATUS REQUIRED

Dial hand set, 1011 type or equivalent.

Blocking and insulating tools, as required. See Section 069-020-801.

SECTION C71.861.13

STEP	ACTION	VERIFICATION
3 (Cont)	<u>Note</u> : Check that no select magnet is operated on switch, where junctor appears, before operating <u>D</u> relay.	
4	Operate hand test set key to TALK.	Dial tone heard.
5	Dial station.	Dial tone removed. Audible ringing tone heard. When called station answers, audible ringing removed. Battery reversal click heard in hand test set. Conversation satisfactory. <u>D</u> , <u>TP</u> relays operated in junctor under test.
6	Remove blocking tools from relays blocked operated in Step 3.	
7	Request called station to disconnect for 30 seconds, then return to line.	<u>D</u> relay releases in junctor under test. When called station returns to line, <u>D</u> relay reoperates. Battery reversal click heard in hand test set. Conversation with station normal.
8	Block <u>B</u> relay operated of junctor under test.	
9	Operate hand test set key to MON for 30 seconds, then return to line.	<u>A</u> relay releases in junctor under test. When hand test set returns to line, <u>A</u> relay reoperates. Battery reversal click heard. At station: Conversation with test line normal.
10	Remove blocking tool from <u>B</u> relay of junctor under test.	
11	Request called station to hang up.	When called station hangs up, <u>D</u> relay released in junctor under test.
12	Operate hand test set key to MON.	<u>A</u> , <u>B</u> , <u>TP</u> relays release in junctor under test.
13	Operate hand test set key to TALK.	Dial tone heard.
14	Operate hand test set key to MON.	
15	In slide 2: Disconnect hand test set from test line.	