# OPERATIONS SUPPORT SYSTEMS MINI-REMOTE TRUNK TEST UNIT ACCEPTANCE TESTS

## NO. 5 CROSSBAR SWITCH

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### 1. GENERAL

- 1.01 This practice provides the acceptance test procedures necessary for evaluating the performance of the 5XB (No. 5 crossbar) switch mini-RTTU (remote trunk test unit). The acceptance tests contained in this practice are designed to verify that the mini-RTTU hardware and features are operational and that they conform to the original design intent. All failure conditions should be referred to the responsible AT&T Technologies installation group.
- 1.02 Whenever this practice is reissued, the reason(s) for reissue will be listed in this paragraph.
- 1.03 The procedures in this practice should be performed only after all of the installation test requirements have been met. The installation test procedures and results should be monitored and confirmed by the customer.

## 2. PREPARATION

2.01 This procedure provides the method to set up the mini-RTTU for testing.

STEP	PROCEDURE
1	Obtain the associated mini-ROTL (remote office test line) priming data base from the CAROT (Centralized Automatic Reporting On Trunks) center.
2	Obtain a portable data terminal with EIA (Electronic Industries Association) RS-232C interface capabilities.
3	Connect the EIA interface connector from the portable data terminal to the EIA connector on the front of the mini-RTTU.
4	Turn on power to the data terminal.
5	Set the data terminal controls per Table A.
6	At MC5P007A, depress the RESET button.
	Requirement: A display similar to Fig. 1 is displayed.

## 3. ACCEPTANCE TESTS

### A. Transmission Test With Talk and Monitor Callback

3.01 This procedure provides the method to perform a transmission test with talk and monitor callback.

STEP	PROCEDURE
1	At the data terminal, enter the following command:
	GR:**/GR;RF;MTx;SA;9;T0!
	Where:
	x = Assigned call back digit.
2	Depress the RETURN key.
	Requirement: The following output message is received:
	GR:**/GR;RF;MTx;SA;9;T0!
	GR;jn/GR;RF;MTx;SA;9;T0!
	Where:
	jn = Job number
	x = Assigned call back digit.
3	Enter the following command:
	GT:01/GT;TN;priming;05;N;;NL;AB;AB!
	Where:
	priming = A valid priming string from a CAROT test for a 105 transmission test.
4	Depress the RETURN key.
	Requirement: The following output message is received:
	GT:01/GT;TN;priming;05;N;;NL;AB;AB!
	Where:
	priming = A valid priming string from a CAROT test for a 105 transmision test.
5	Enter the following command:
	RF:01/SC>SP!

STEP	PROCEDURE
6	Depress the RETURN key.
	Requirement: The following output message is received:
•	OM:01/GC>CH;PT;2W;0! OM:01/GC>AS;ID;NL;NL;NL! OM:01/SC;01;S;F! OM:01/KC;5N! RF:01/SC>SP;m1;m2!
	Where:
	m1 = Near-end measurement result
	m2 = Far-end measurement result.
7	If the output message of Step 6 is received, proceed to Step 12.
8	If the output message of Step 6 indicates a TO (time-out) in either m1 or m2, return to Step 5.
9	If the requirement of Step 6 is not received, enter the following command:
	CM:01/CM;RL!
10	Depress the RETURN key.
11	Return to Step 1 and use a different trunk identification number.
12	Enter the following command to release the trunk:
	CM:01/CM;RL!

### B. Line Test (Optional)

3.02 If the line testing option is provided with the mini-RTTU, this procedure provides the method to perform line tests of ringing, coin collect, and coin return.

STEP	PROCEDURE
1	At data terminal, enter the following command:
	GR:**/GR;DC;M;DC;9;T0!
2	Depress RETURN key.
	Requirement: The following output message is received:
	GR:jn/GR;DC;M;DC;9;T0!
	Where:
	jn = job number.
3	Enter the following command:
	GT:01/GT;LN;xxxyyyy;OM;N;NL;BP;AB;AB!
	Where:
·-	xxxyyyy = Telephone number for the coin station in the office.
4	Depress RETURN key.
	Requirement: The following output message is received:
	OM:01/GC>CH;PT;2W;0! OM:01/GC>AS;xx;AC;NL;NL! Where:
	xx = Traffic status (ID idle or BY busy).
	A. Ringing Test
5	Enter the following command:
	TS:01/LT>MR;N!
6	Depress RETURN key.
	Requirement 1: The following message is received:
	TS:01/LT>MR;N!

STEP	PROCEDURE
	Requirement 2: The coin station rings.
7	Enter the following command:
	TS:01/LT>MR;N!
8	Depress RETURN key.
	Requirement 1: The following output message is received:
	TS:01/LT>MR;N!
	Requirement 2: The coin station stops ringing.
	B. Coin Collect Test
9	At the coin station, insert a coin.
10	At the data terminal, enter the following command:
•	TS:01/LT>CC;N!
11	Depress RETURN key.
	Requirement 1: At coin station, the coin is collected.
	Requirement 2: At data terminal, the following output message is received:
	OM:01/LT;CN! TS:01/LT>CC;N!
	If coin was not collected, the following output message is received:
	OM:01/LT;CP!
12	At data terminal, enter the following command:
	TS:01/LT>CC;F!
13	Depress RETURN key.
	Requirement: The following message is received:
	TS:01/LT>CC;F!
	C. Coin Return Test
14	At coin station, insert a coin.

STEP	PROCEDURE
15	At data terminal, enter the following command:
	TS:01/LT>CR;N!
16	Depress RETURN key.
	Requirement 1: At coin station, coin is returned.
	Requirement 2: At data terminal, the following output message is received:
	OM:01/LT;CN! TS:01/LT>CR;N!
	If coin was not returned, the following output message is received:
	OM:01/LT;CP!
17	At data terminal, enter the following command:
	TS:01/LT>CR;F!
18	Depress RETURN key.
	Requirement: The following message is received:
-	TS:01/LT>CR;F!
19	Enter the following command:
	CM:01/CM;RL!
20	Depress RETURN key.

## C. Dual Line Appearance Verification (Optional)

3.03 If the dual test line option is provided with the mini-RTTU, this procedure provides a quick method to check the line appearance.

STEP	PROCEDURE
1	Dial the dual test line appearance telephone number.
2	Listen for the TPT (test progress tone).
	Requirement: The TPT is heard.
3	Disconnect from the test line.

# D. Verify Central Trunk Test Unit Line Appearance

3.04 This procedure provides the method to verify the CTTU (central trunk test unit) line appearance.

STEP	PROCEDURE					
1	At mini-RTTU CTTU data set, verify the MC LED (light-emitting-diode) is lighted.					
2	Dial the CTTU telephone number.					
3	Listen for a tone.					
	Requirement 1: Tone is heard.					
	Requirement 2: At mini-RTTU CTTU data set, TR and MR LEDs are lighted.					
	Requirement 3: After 10 to 20 seconds, TR and MR LEDs are extinguished.					
4	Remove data terminal.					

TABLE A  DATA TERMINAL CONTROL SETTINGS						
CONTROL	SETTING					
Half duplex/full duplex	Half Duplex					
Parity	No parity					
Auto line feed	On (or enabled)					
Caps lock	On (or enabled)					
Baud rate	300					

```
SYSTEM RESET VO.1
    USE BREAK FOR 1200 BAUD!!
CPU TEST OK
CPU CHECKSUM TEST
S0 OK READ 2e SUM IS 2e
S1 OK READ a0 SUM IS a0
CPU RAM TEST OK
QUICK MEMORY 1 RAM TEST OK
MEMORY 1 CHECKSUM TEST pages = 04
S00 a800 OK READ 3d SUM IS 3d
S01 a800 OK READ 84 SUM IS 84
S10 c000 OK READ e9 SUM IS e9
S11 c000 OK READ 33 SUM IS 33
S12 c400 OK READ 09 SUM IS 09
S13 c400 OK READ 06 SUM IS 06
S14 c800 OK READ 9c SUM IS 9c
S15 c800 OK READ a5 SUM IS a5
S16 cc00 OK READ 30 SUM IS 30
S17 cc00 OK READ ba SUM IS ba
S20 d000 OK READ 95 SUM IS 95
S21 d000 OK READ f8 SUM IS f8
S22 d400 OK READ 38 SUM IS 38
S23 d400 OK READ 5a SUM IS 5a
S24 d800 OK READ b8 SUM IS b8
S25 d800 OK READ 49 SUM IS 49
S26 dc00 OK READ 1e SUM IS 1e
S27 dc00 OK READ 50 SUM IS 50
S30 e000 OK READ f7 SUM IS f7
S31 e000 OK READ bc SUM IS bc
START OF RAM = 8000
                      END OF RAM = 9fff
MEMORY 1 RAM TEST OK
***** MINI-RTTU LIVES! ****
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TM:00/RR;TM! RF:00/RR;RF! OM:00/RR;OM!

DC:00/RR;DC!

Fig. 1—Preparation Display