

DATA AUXILIARY SETS 801C1 AND 801C2 FOR AUTOMATIC CALLING TEST PROCEDURES

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1. GENERAL

1.01 This section covers Data Auxiliary Sets 801C1 and 801C2 only. Other types of Data Auxiliary Sets 801C-type are covered by other sections.

1.02 This section is reissued to provide additional tests for the Data Auxiliary Sets 801C1 and 801C2 using the 914B Data Test Set (DTS). Since this is a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 Data Auxiliary Sets 801C1 or 801C2 will be referred to in this section as the automatic calling unit (ACU) unless special applications make it necessary to refer to the data auxiliary set by complete nomenclature.

1.04 The information shown in Fig. 1 and Table A is provided as a means of identifying printed wiring circuit board assemblies.

Note: For replacement procedures, refer to the section entitled Data Auxiliary Sets 801C1 and 801C2—for Automatic Calling—Maintenance (598-012-300).

1.05 A letter *a*, *b*, *c*, or *d* added to a step number in this section indicates an action which may or may not be required depending on type of data auxiliary set and the options installed. The condition under which a lettered step or a series of lettered steps should be made is given in the Procedure 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. INSTALLATION TESTS

2.01 This test should be made during time of installation. No data test set or customer equipment is required for this test.

A. Dialing Test

2.02 The purpose of this test is to verify that the dialing circuitry of the ACU functions properly.

2.03 Before making a test of the data auxiliary set, verify that the set has been installed in accordance with the section entitled Data Auxiliary Sets 801C1 and 801C2—Installation (598-012-200). Also check to assure that the options listed on the service order have been installed.

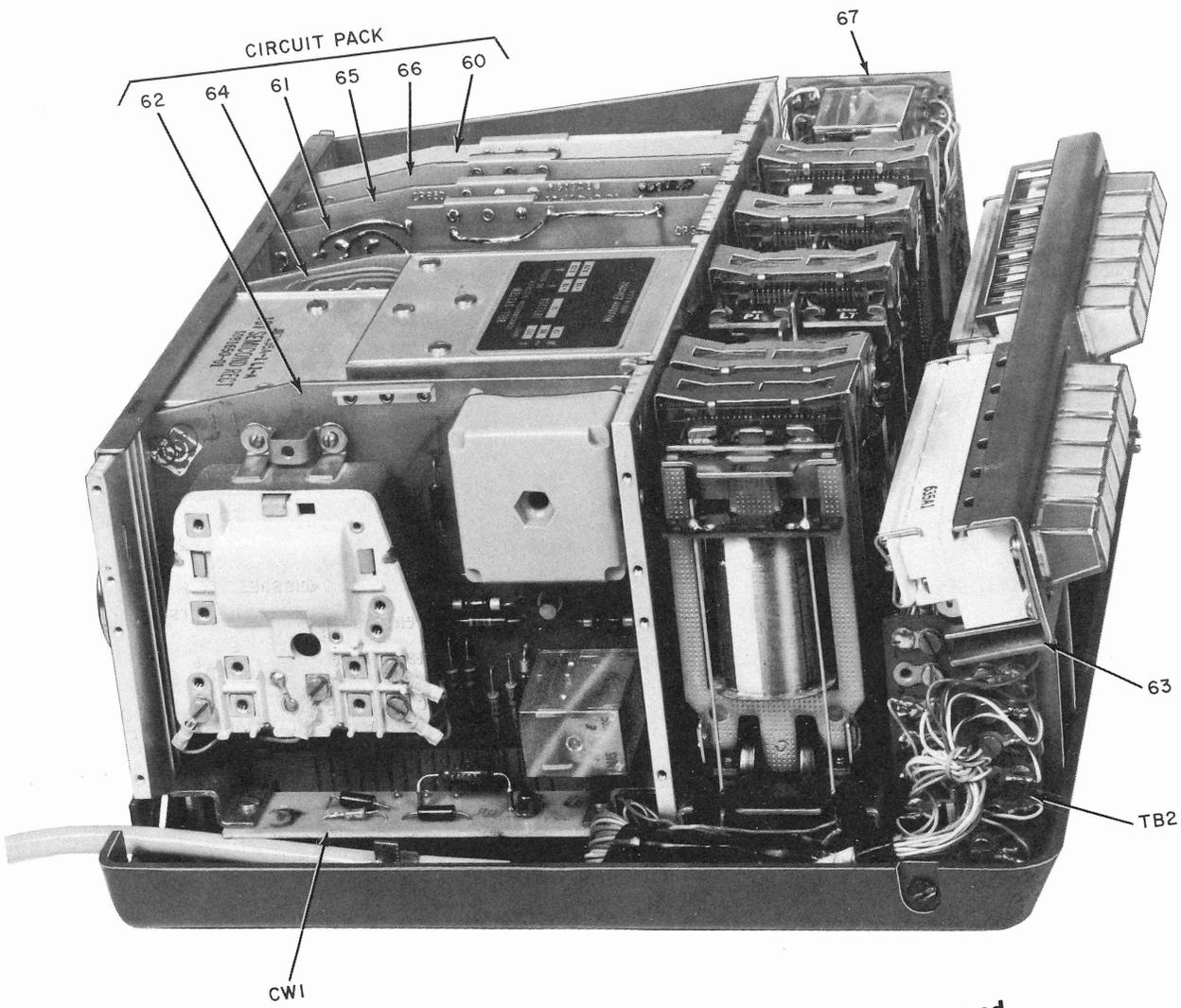


Fig. 1—Data Auxiliary Sets 801C1 and 801C2—Cover Removed

TABLE A
PRINTED WIRING BOARD IDENTIFICATION

PRINTED BOARD DESIG (See Fig. 1)	PRINTED BOARD FEATURES	PRINTED BOARD ASSEMBLY NUMBER
CP 60	Tuned circuits and input transformer	A835288
CP 61	7- to 40-second timer and monitor amplifier	A835284
CP 62	Telephone network and tip monitor	A835282
CP 63	Receiver and miscellaneous	A835287
CP 64	TOUCH-TONE® transmitter and control	A835283
CP 65	Timers	A835285
CP 66	Limiter and detector	A835286
CP 67*	Relays	A835289
CP CW1*	EON Gate	A835803

* Wired-in units, cannot be replaced.

STEP	PROCEDURE
1	Disconnect ACU power cord from the 120 Vac receptacle.
2	Remove the cover of the ACU as described in section 598-012-200.
3	Remove strapping from terminals 53 and 54 on terminal board TB1.
4	Insert the ACU power cord into a 120 Vac receptacle.
5	Depress TEST key on the ACU. Dial tone should be heard in the test speaker. Lamps PND and TEST should light.
6	Dial the TOUCH-TONE® test trunk telephone number as described in the following steps. <ol style="list-style-type: none"> (a) Depress the numbered button corresponding to the first digit of the TOUCH-TONE test trunk telephone number and hold it depressed until the PND lamp goes out. <p>Note: Failure to wait for PND lamp to go out may result in a wrong number being sent by the ACU.</p> (b) Wait for PND lamp to light. (c) Follow the same procedure for the remaining digits of the TOUCH-TONE test trunk telephone number (depress the numbered button, wait for PND lamp to go out, release the numbered button, wait for the PND lamp to light, depress the next numbered button, etc).

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STEP	PROCEDURE
	<p><i>Note:</i> When a misdial occurs, a wrong number is reached, a busy tone is encountered, or the ACU fails to respond as previously indicated, the PND button should be depressed. This will immediately terminate the call and restore the ACU to normal. The dialing sequence may be restarted by depressing the TEST button.</p>
7	<p>Upon receipt of a signal to start testing, operate the TEST keys in numerical sequence.</p> <p><i>Requirement:</i> If the level and frequency of each digit are acceptable, a test verification signal is sent to the station. If a digit fails to meet the test requirements, a rejection signal is sent following a "NO CHECK," time-out interval.</p>
8	<p>Terminate the call by operating the PND key.</p>
9	<p>Reconnect the strapping to terminals 53 and 54 on TB1.</p>
10	<p>Replace cover on the ACU. (See Section 598-012-200 for cover replacement procedures.)</p>
11	<p>If the data auxiliary set passes the previous test, the dialing circuitry can be considered to be operating properly.</p>

B. Data Test Center Test

2.04 The purpose of this test is to verify that the dialing and transfer circuitry of the ACU function properly. To successfully complete

the test (to cause the data set to go into the data mode), the data terminal ready (DTR) lead at the data set business machine interface must be in the ON (positive) state.

STEP	PROCEDURE
1	<p>Call the data test center (DTC) by using an adjacent telephone and request a remote test of the ACU and follow the DTC instructions.</p> <p><i>Note:</i> Inform the DTC attendant of the type of associated data set and the ACU options provided such as:</p> <ul style="list-style-type: none"> (a) End of number (EON) operation (option B) (b) ACU answer detection (option B) (c) Answer-tone frequency 2025 Hz (option S) (d) Answer-tone frequency 2225 Hz (option T)
2	<p>Momentarily depress the TEST button.</p> <p><i>Requirement:</i> Dial tone should be heard in the test speaker and lamps PND and TEST should light.</p>

STEP	PROCEDURE
3	<p>Depress the numbered button corresponding to the first number of the DTC telephone number and hold it depressed until PND lamp is extinguished.</p> <p><i>Note:</i> Failure to wait for the PND lamp to extinguish may result in a wrong number being sent by the ACU.</p>
4	<p>When the PND lamp extinguishes, release the numbered button and wait for the PND lamp to light again.</p>
5	<p>Repeat Steps 3 and 4 for each of the remaining digits of the DTC telephone number (depress the numbered button, wait for PND to extinguish, release the numbered button, wait for PND to light, depress the next numbered digit, etc).</p>
6	<p>When a misdial occurs, a wrong number is reached, a busy tone is encountered, or the ACU fails to respond as previously described, the PND button should be depressed and the sequence must be repeated.</p> <p><i>Note:</i> After two unsuccessful attempts to reach the DTC using the ACU test keys, call the DTC using an adjacent telephone and inform the DTC of the inability to complete the call.</p>
7	<p>When the DTC answers the call, the answer can be heard on the test call speaker. The number 9 test button should now be depressed to send a tone to the DTC as a means of identification.</p>
8a	<p>When end of number mode of operation is to be tested—</p> <p>Simultaneously depress both the number 4 and 8 buttons. Hold the buttons depressed until PND lamp extinguishes.</p> <p><i>Note:</i> When PND lamp extinguishes, the ACU has transferred the line to the data set. The data set can now detect answer tone (2025 or 2225 Hz from DTC) and go into data mode. When the ACR timer times out, the TEST lamp extinguishes and the ACU returns to an idle state.</p>
9b	<p>When ACU answer-tone detection is to be tested (801C2)—</p> <p>The DTC sends an answer tone that should be momentarily heard in the test speaker. When the ACU detects answer tone, the PND lamp extinguishes indicating the telephone (data) line is transferred to the data set which then enters the data mode. The TEST lamp extinguishes at the end of the ACR timer interval.</p>

2.05 If the ACU meets all preceding test requirements, the unit may be considered to be operating properly.

3. MAINTENANCE TESTS

3.01 These tests should be made when investigating a trouble condition during a maintenance visit. The test to be run will depend upon the type of test equipment available. Data auxiliary sets not meeting the requirements of the following tests should be replaced. Defective ACUs should be tagged to identify the nature of trouble and returned to the distributing house for repair.

A. Interface Tests (901B Data Test Set)

3.02 Before a valid test can be made, the ACU must be equipped with option Z (terminate call by CRQ after DSS on). If necessary install option Z. This option can be removed upon completion of the tests if it is not called for on

the service order. See section entitled Data Auxiliary Sets 801C1 and 801C2—for Automatic Calling—Installation (598-012-200).

3.03 This test verifies that the ACU will, in response to a call request, access the data (telephone) line and will properly respond to dialing information from the business machine (901B).

3.04 The following test equipment is required for this test:

- 901B Data Test Set
- KS-14510-L5 volt-ohm-milliammeter or equivalent
- Interface test adapter (901B Data Test Set Cover).

STEP	PROCEDURE
1	Disconnect the ACU power cord from the 120 Vac receptacle.
2	Remove the covers from the ACU. <div style="text-align: center; margin: 10px 0;"> </div>
3	Connect the interface test adapter as shown in Fig. 2.
4	Connect the 901B DTS to the interface test adapter.
5	Connect the interface test adapter to the ACU.
6	Set the 901 DTS controls as follows: <p style="margin-left: 40px;">SELECTOR SWITCH to 1</p> <p style="margin-left: 40px;">A TEST switch to 5</p> <p style="margin-left: 40px;">UNATT—ATT switch to ATT</p>

Fig. 2—Interface Test Adapter

STEP	PROCEDURE
7	Connect a strap between the TRANSMIT DATA terminal and B terminal on the 901B DTS.
8	Temporarily disconnect the telephone line from the ACU.
9	Using the KS-14510-L5 meter, measure the resistance between terminals EQ1 and EQ7 on the interface test adapter. Requirement: Meter should read 0 ohms.
10	Measure the resistance between terminals EQ1 and EQ6 on the interface test adapter. Requirement: Meter should read 510 ± 60 ohms (PWI off). Note: All measurements must be made at the interface test adapter as the 901B Data Test Set is not designed to test the ACU.
11	Insert the ACU power cord into a 120 Vac receptacle.
12	Disconnect the strapping bar from terminals 53 and 54 on terminal board TB1 and connect a strap to terminals 54 and 55 on TB1.
13	Set B TEST switch to position 3. Requirement: After the ACR timer interval has elapsed and the ACR relay has operated, the voltage at EQ3 relative to EQ1 should be 18 ± 1.0 Vdc.
14	Set B TEST switch to position 2.
15	Disconnect and remove strapping bar from terminals 54 and 55 of TB1.
16	Measure the voltages as indicated in Table B.

TABLE B

MEASURE VOLTAGE		INDICATED VOLTAGE
FROM TERM.	TO TERM.	
EQ1	EQ3	-18.0 ± 1.0 vdc (ACR OFF)
EQ1	EQ5	-8.0 ± 2.0 vdc (PND OFF)
EQ1	EQ6	$+18.0 \pm 1.0$ vdc (PWI ON)
EQ1	EQ13	-18.0 ± 1.0 vdc (DSS OFF)
EQ1	EQ22	-18.0 ± 1.0 vdc (DLO OFF)

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STEP	PROCEDURE
17	<p>Momentarily depress the TEST key on the ACU.</p> <p>Note: Confirm that the D1, D2, D4, and D8 relays on CP64 do not operate.</p>
18	<p>Measure the voltages as indicated in Table C.</p>
19	<p>Release the ACU from the test mode by depressing the PND key.</p>
20	<p>Connect the telephone line to the ACU.</p>
21	<p>Connect a 1011-type handset across tip and ring.</p>
22	<p>Set TALK/MON switch to the MON position on the 1011-type handset.</p>
23	<p>Set B TEST switch to position 3.</p> <p>Requirement: The ACU will go off hook and dial tone will be present in the 1011 handset.</p> <p>Note: If the operator should cut in at this time, the telephone employee can explain that he is testing an ACU.</p>
24	<p>Measure the voltages indicated in Table D.</p>
25	<p>Temporarily disconnect the strap between the TRANSMIT DATA terminal and the B terminal on the 901B DTS.</p> <p>Requirement: D1, D2, D4, and D8 relays on CP64 release.</p>
26	<p>Set the UNATT—ATT switch to the UNATT position.</p> <p>Requirement: The ANS relay will operate.</p> <p>Note: When the associated data set is equipped with options that allow it to receive a data call, the ANS relay will release after operating and the DATA lamp will light. The voltage on EQ13 relative to EQ1 shall be 18 ± 1 Vdc.</p>
27	<p>Set the B TEST to position 2.</p> <p>Requirement: The ACU will return to an idle state and the DATA lamp will go off.</p>
28	<p>Disconnect the 901B DTS and the interface test adapter from the ACU.</p>
29	<p>Replace the strapping on terminals 53 and 54 on TB1.</p>
30	<p>Replace the cover on the ACU. (See Section 598-012-200 for cover replacement procedures.)</p>
31	<p>Return the ACU to its normal operating condition.</p>

TABLE C

MEASURE VOLTAGE		INDICATED VOLTAGE
FROM TERM.	TO TERM.	
EQ1	EQ5	-8.0 ±2.0 vdc (PND OFF)
EQ1	EQ22	+18.0 ±1.0 vdc (DLO ON)

TABLE D

MEASURE VOLTAGE		INDICATED VOLTAGE
FROM TERM.	TO TERM.	
EQ1	EQ5	+18.0 ±1.0 vdc (PND ON)
EQ1	EQ22	+18.0 ±1.0 vdc (DLO ON)

3.05 If the one lead control option Z (terminate call by CRQ after DSS ON) was installed to perform this test and is not called for on the service order, it should be removed at this time.

information provided in the Installation and Connection Practice for that particular data set.

B. Call Origination Test (914B Data Test Set)

3.07 A 914B DTS and a suitable timing device are required for this test.

3.06 This test provides a means to dial the DTC using the 914B Data Test Set (DTS) as a business machine simulator to initiate a call and dial digits manually. The DTC to be called must be instructed that a test of an ACU is to be performed and upon answering the incoming call, answer tone (2025 or 2225 Hz as required by the ACU option) should be sent to the ACU. This test verifies that the ACU will correctly dial the digits given by the 914B DTS. A test of the interdigital timer is also included.



Test set switches that are neither shown on the test connection diagram (Fig. 3) nor mentioned in text are not required for the test. Lamp indications not called for in the test are not pertinent and may be disregarded. Before making any test connections, ensure that all programming pins are removed from the matrix. Insert only those pins shown in the test connection diagram Fig. 3.

Note: The ACU and a data set must be connected to the data line using connection

STEP	PROCEDURE
	Note: This procedure should be read carefully and understood before proceeding. Manual dialing using the 914B DTS requires the digit to be dialed be set up in binary form on the 914B control switches. The time interval between the dialing of each digit should be minimized to prevent central office time out.

STEP	PROCEDURE
1	Disconnect the power cord of the ACU from the 120 Vac receptacle.
2	Remove customer cords from the ACU and data set.
3	Interconnect the 914B DTS with the ACU and data set as illustrated in Fig. 3.
4	Condition the 914B DTS as shown in Fig. 3.
5	Pull out all A interface selector switches except 20A.
6	Depress all B interface selector switches except 20B.
7	Program the matrix as shown in Fig. 3.
8	Connect leads from METER INPUT jacks to tip and ring on connecting block.
9	Operate POWER switch on the 914B DTS to the ON position. Requirement: POWER lamp should light.
10	Insert the ACU power plug into a 120 Vac receptacle. Note: Power indication (PWI) may be monitored with the VERTICAL MONITOR switch in position 6, FUNCTION switch to VOLTS/INT, RANGE switch to 30V, and POLARITY switch to NORMAL.
11	Set the abandon call and retry (ACR) timer to the 40-second position (extreme clockwise position).
12	Operate switch S7 (DTR) to the ON position. (This conditions the associated data set to enter the data mode.)
13	Operate switch S1 (CRQ) to the ON position. Requirement: Dial tone should be heard in the 914B DTS speaker and lamps DS1 (DLO) and DS2 (PND) should light. Level of tone may be controlled by RANGE (ACU) switch.
14	Using Table E and switches S3 through S6, the first digit to be dialed can be set.
15	Momentarily operate switch S2 (DPR) to the ON position. Requirement: Lamp DS2 should extinguish (digit present on the NB interface leads is now being dialed by the ACU).
16	Operate switch S2 to the OFF position. Requirement: Lamp DS2 should light.

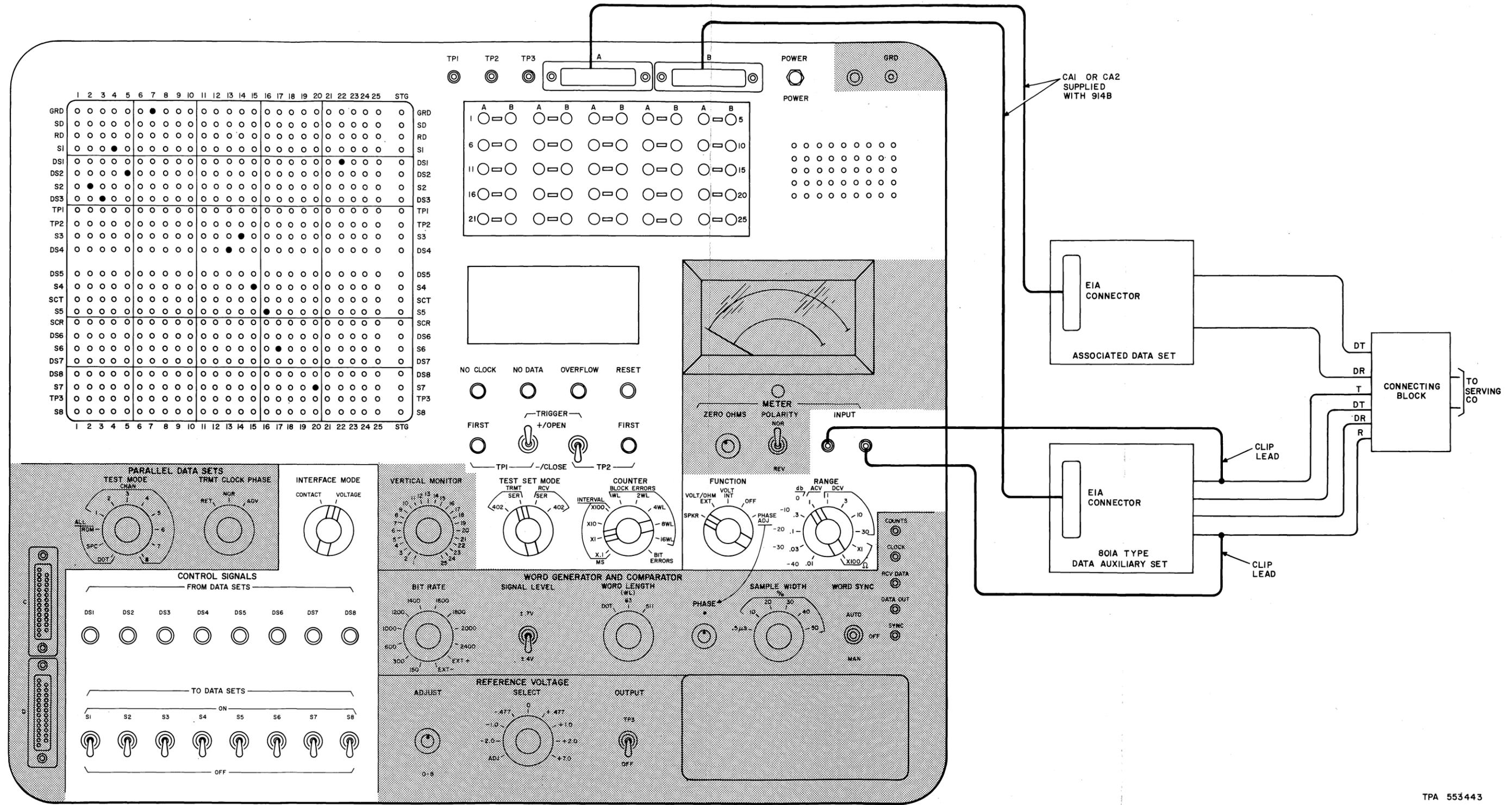


Fig. 3—Test Conditions for 914B DTS—Call Origination Test

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STEP	PROCEDURE
17	<p>Repeat Steps 14 through 16 for the remaining digits of the telephone number.</p> <p>Note: If the ACR timer interval is exceeded, lamp DS3 will light and the test must be repeated.</p>
18	<p>Verify the correct digits of the DTC telephone number have been dialed.</p> <p>Requirement: Telephone should ring upon completion of the call from the ACU.</p>
19a	<p>When ACU answer-tone detection is to be tested (801C2)—</p> <p>Answer tone should be heard coming from the DTC. DS2 (PND) extinguishes and DS4 (DSS) lights when the line is transferred to the data set.</p>
20b	<p>When EON operation is to be tested—</p> <p>Using Table E and switches S3 through S6, set up to send 12 to the ACU.</p>
21b	<p>Operate switch S2 to the ON position.</p> <p>Requirement: Lamp DS2 will extinguish and DS4 lights when the line is transferred to the data set.</p> <p>Call Termination Test</p>
22c	<p>If option Z (call termination by CRQ) is used—</p> <p>Operate S1 to OFF.</p> <p>Requirement: DS1 extinguishes.</p>
23d	<p>If option G (call termination through data set) is used—</p> <p>Operate S1 to OFF.</p> <p>Requirement: DS1 remains ON.</p>
24d	<p>Operate S7 to OFF.</p> <p>Requirement: DS1 extinguishes.</p> <p>ACR Timer Test</p>
25	<p>Set the abandon call and retry (ACR) timer to the 7-second position (extreme counterclockwise position).</p>

TABLE E
BINARY TO DECIMAL CONVERSION

DIALING SWITCH SETTINGS					VERTICAL MONITOR SWITCH — VOLTAGE READINGS			
DIGIT	S3-NB1	S4-NB2	S5-NB4	S6-NB8	NB1 POS 14	NB2 POS 15	NB4 POS 16	NB8 POS 17
0	ON	ON	ON	ON	+	+	+	+
1	OFF	ON	ON	ON	-	+	+	+
2	ON	OFF	ON	ON	+	-	+	+
3	OFF	OFF	ON	ON	-	-	+	+
4	ON	ON	OFF	ON	+	+	-	+
5	OFF	ON	OFF	ON	-	+	-	+
6	ON	OFF	OFF	ON	+	-	-	+
7	OFF	OFF	OFF	ON	-	-	-	+
8	ON	ON	ON	OFF	+	+	+	-
9	OFF	ON	ON	OFF	-	+	+	-
10	ON	OFF	ON	OFF	+	-	+	-
11	OFF	OFF	ON	OFF	-	-	+	-
12	ON	ON	OFF	OFF	+	+	-	-
13	OFF	ON	OFF	OFF	-	+	-	-
14	ON	OFF	OFF	OFF	+	-	-	-
15	OFF	OFF	OFF	OFF	-	-	-	-

STEP	PROCEDURE
26	<p>Set S1 to ON.</p> <p>Requirement: DS1 and DS2 light. DS3 lights at end of ACR timer interval.</p> <p>Note: Time the interval from the moment switch S1 is operated to the ON position and lamp DS3 lights. Limits are given in Table F.</p>

TABLE F
ACR TIMER ADJUSTMENT PROCEDURE

INTERVAL SELECTED (SECONDS)	ACR TIMER ADJUSTMENT	MEASURED INTERVAL (SECONDS)
7	Rotate adjustment screw to extreme counterclockwise position.	7 to 9
10	Rotate adjustment screw one position clockwise from extreme counterclockwise position.	10 to 12
15	Rotate adjustment screw two positions clockwise from extreme counterclockwise position.	15 to 18
25	Rotate adjustment screw three positions clockwise from extreme counterclockwise position.	25 to 30
40	Rotate adjustment screw to extreme clockwise position.	40 to 48

STEP	PROCEDURE
27	Turn off S1 for reset.
28	Repeat Steps 25 through 27 for remaining timer intervals given in Table F.
	Timing Test
29	Using the test leads provided with the 914B DTS, connect TP1 to the center terminal of interface selector switch 2.
30	Connect TP2 to the center terminal of interface selector switch 5.
31	Set switch TP1 to the +/OPEN position.
32	Set switch TP2 to the -/CLOSE position.
33	Set the TEST SET MODE switch to TRMT SER position.
34	Set the COUNTER INTERVAL switch to the X1 position.
35	Set switches S3 through S6 to the ON position.
36	Operate switch S1 to the ON position.
	Requirement: Lamp DS2 should light.
37	Remove central office tip and ring leads from the external connecting block.
	Note: This will prevent unwanted digits being sent to the central office.

STEP	PROCEDURE
38	Momentarily depress the RESET button. <i>Requirement:</i> The counter display should read 00.
39	Operate switch S2 to the ON position. <i>Requirement:</i> Counter display should read 77 ± 3 milliseconds.
40	Operate switch S1 to the OFF position. <i>Requirement:</i> Lamps DS1 and DS2 will extinguish, indicating an idle state.
41	Reconnect central office tip and ring to the external connecting block.
42	Set the ACR timer to the position specified on the service order.
43	Return the ACU to its normal operating condition.

C. Abandon Call and Retry Timer Test

time interval.

3.08 The purpose of this test is to verify that the ACR timer circuitry will signal the business machine to abandon a call after a preset

3.09 A stopwatch or other timing device is required.

STEP	PROCEDURE
1	Remove cover of the ACU (see Section 598-012-200 for cover removal procedures).
2	Disconnect the strapping bar from terminals 53 and 54 on TB1 and connect a strap on terminals 54 and 55 on TB1.
3	Set the ACR timer to the 7-second position (See Table F for ACR timer adjustment procedures).
4	Operate the TEST key on the ACU and release it after TEST lamp lights.
5	Time the interval from the moment TEST lamp lights until it is extinguished. <i>Note:</i> Limits are given in Table F.
6	Repeat Steps 3 through 5 for the remaining timer interval given in Table F.
7	Replace the cover of the ACU (see Section 598-012-200 for cover replacement procedures).

D. Monitoring of Interface Leads Test

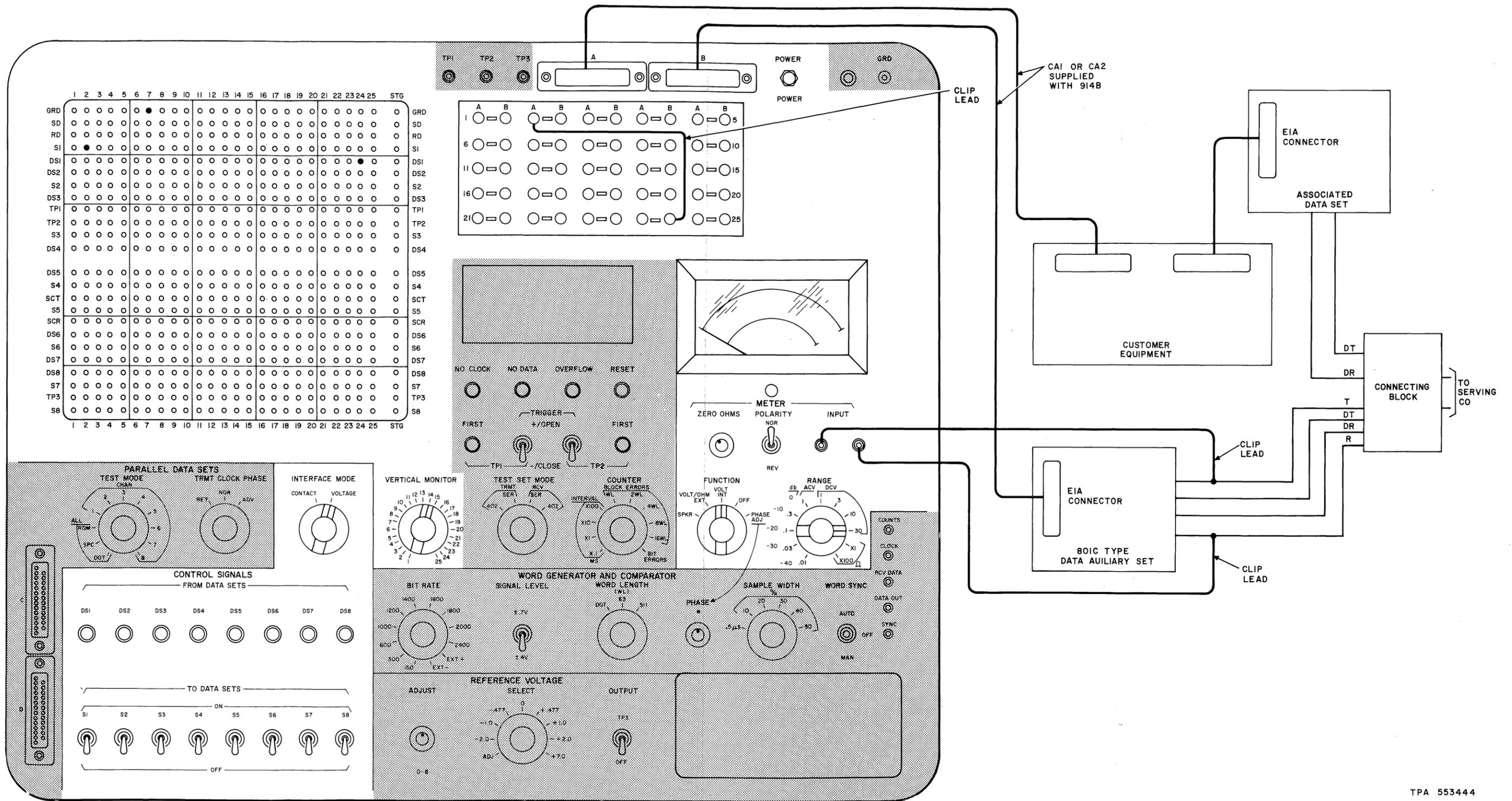
3.10 This test should be made when a trouble condition exists that cannot be detected by routine testing, for example, when the ACU is operating under control of the customer equipment. This test requires coordination with the customer

- One test lead
- 914B Data Test Set

and allows monitoring of the interface leads to evaluate the interaction between the business machine and the ACU during a normal data call by the customer.

3.11 The following test equipment is required:

STEP	PROCEDURE
	<p>Note: This procedure must be read carefully and understood before proceeding so the time required between the dialing of digits is minimized. The tester controls DPR and consequently controls the dialing rate.</p>
1	Set the abandon call and retry timer to the 40-second position (extreme clockwise position).
2	Remove the ACU power cord from the 120 Vac receptacle.
3	Connect the Data Auxiliary Set and customer equipment to the 914B DTS as shown in Fig. 4.
4	Condition the 914B DTS as shown in Fig. 4.
5	Program the matrix as shown in Fig. 4.
6	Depress all interface selector switches except 2A and 24A.
7	Using the leads supplied with the 914B DTS, connect between the 914B METER INPUT terminals and tip and ring on the connecting block.
8	Insert the ACU power cord into a 120 Vac receptacle.
9	Operate POWER switch on the 914B DTS.
	<p>Requirement: POWER lamp should light.</p>
10	Request the customer to turn on the call request (CRQ) lead at the business machine.
11	<p>Inform the customer that he must condition the NB interface leads with digit to be dialed and turn on DPR.</p> <p>Requirement: Lamp DS1 will light.</p>



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Fig. 4—Test Conditions for 914B DTS—Monitoring of Interface Leads

STEP	PROCEDURE
12	<p>When lamp DS1 lights, move VERTICAL MONITOR switch through positions 14, 15, 16, and 17 (in that order) and record the polarity of each reading. Since the meter polarity switch is in the NORMAL position, a meter deflection to the left (off scale) indicates a negative and a deflection to the right indicates a positive reading.</p> <p>Note: Table E is used to convert these potentials (binary code) to a decimal digit. This digit is to be compared to the known digit stored in the business machine.</p>
13	<p>Operate switch S1 to the ON position (the digit present on the interface leads is now dialed by the ACU).</p> <p>Requirement: Lamp DS1 will extinguish.</p>
14	<p>When lamp DS1 lights, operate switch S1 to the OFF position.</p>
15	<p>Repeat Steps 11 through 14 until all the digits of the called station have been dialed (DS1 lights, verify correct number with VERTICAL MONITOR. Operate switch S1 ON then OFF).</p>
16	<p>Move FUNCTION switch to SPKR and RANGE switch to ACV1 after the last digit has been dialed.</p> <p>Note: It is important that this step be accomplished immediately after the last digit has been dialed, otherwise the answer tone may not be heard through the 914B DTS.</p>
17	<p>Shortly after the called station answers the call, answer tone of either 2025 Hz or 2225 Hz should be heard through the 914B DTS speaker.</p> <p>Requirement: DATA lamp on the data set should light.</p>
18	<p>The progress of the data call may be monitored with the 914B DTS speaker.</p>
19	<p>Remove ac power from the ACU and the 914B DTS.</p>
20	<p>Remove all test connections made on the 914B DTS.</p>
21	<p>If the ACU has correctly dialed the digits supplied by the customer and is working properly, return the ACU to its normal operating conditions.</p>