INTERFACE CIRCUIT FOR USE BETWEEN 405-TYPE DATA SET AND MESSAGE REGISTERS (SD-1C451-01)

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1. GENERAL INFORMATION

1.1 Description: This section describes the operational tests to be performed on the Interface Circuit (SD & CD-1C145-01) for use between 405-type Data Systems and Message Registers.

1.2 Cross-Connections: This test is to be performed after all cross-connection are made as required in accordance with the corss-connection lists furnished by the Telephone Company.

1.3 General Precautions: Test receivers, tone buzzers and other simular devices should not be used for testing the connections between the interface circuit and the data sets. This could result in damage to the data circuits. Use a voltohmmeter for doing these tests.

2. RECORDS AND REQUIREMENTS

2.1 Records: Results of tests covered in this section should be recorded on SD-97-1313 and summarized on SD-97-1315.

2.2 Requirements: Tests in this section meet the requirements of SD & CD-1C451-01.

3. TEST EQUIPMENT

Amt	ITE	Description
1	4442A	Volt-Ohmmeter or equiv.

3.2 Cords

Amt	ITE	LGTH	CDRS	ONE END	OTHER END
1	9140 L2	3'	1	Allig.Clip	Allig.Clip

4. FUSING

4.1 Remove all fuses associated with the circuit to be tested. Using a volt-ohmmeter check each fuse for absence of battery and ground. Using fuses of correct type as indicated by the assignment drawings and fuse panel designations install the fuses one at a time. Check that each fuse is associated with the correct circuit and is free from crosses with other unfused posts on the fuse panel.

5. TEST OPERATIONS

5.1 Alarm Circuit Test

5.11 Tests outlined in this paragraph are to be performed on the Transmitting and Receiving End of SD-1C451-01.

NOTE: The data sets must not be connected when doing this test.

5.12 Connect one end of the ITE-9140 cord to PCHG. 11 and the other end to PCHG. 22 of T.S.B. Observe ALM lamp lights. Audible and Visual major (option W) or minor (option X) office alarms operate.

5.13 Operate ths SAL key. Observe: SAL lamp lights and Audible alarm is silenced.

5.14 Remove the connections made in paragraph 5.12. Observe: ALM and SAL lamps extinguish.

5.2 Transmitting End Test

5.21 Tests outlined in this paragraph are to be performed on the Transmitting End (J92603M list 1).

5.22 Perform the following operations and verify the indicated observations for the following steps.

STEP	OPERATION	OBSERVATION
1.	Remove the plug from the P1 connector of the 405A transmitting data set.	
2.	If provided remove the plug from the J2 connector of the 405A transmitting data set.	
3.	Connect one end of the ITE-9140 cord to PCHG. 14 of T.S.A.	
4.	Connect the other end of the ITE-9140 cord to the PCHG. of T.S.B associated with the register to be tested. NOTE: Refer to TABLE A for a list of register D- leads and their associated PCHGS. on T.S.B	
5.	Note the reading of the register to be tested.	
6.	Note the reading of the TST register.	
7.	Momentarily operate the TST key 5 times.	7. Register under test and TST register scores 5 times.
8.	Repeat STEPS 4 through 7 for the reaminder of registers to be tested.	
9.	Upon completion of tests reconnect the plug(s) removed in STEPS 1 and 2.	

5.3 Receiving End Test

5.31 Tests outlined in the paragraph are to be performed on the Receiving End (J29603M List 2).

5.32 Perform the following operations and verify the indicated observations for the following steps.

STEP	OPERATION	OBSERVATION
1.	Remove the plug from the P1 connector of the 405B receiving data Set.	
2.	If provided remove the plug from the J2 connector of the 405-B receiving data set.	
3.	Connect one end of the ITE-9140 cord to PCHG. 14 of T.S.A.	
4.	Note the reading of the register to be tested.	
5.	Connect the other end of the ITE-9140 cord to the PCHG. of T.S.B associated with the register to be tested. NOTE: Refer to TABLE A for a list of register D- leads and their associated PCHGS. on T.S.B.	5. Register under test operates. When delay circuit is provided associated DP- relay operates.
6.	Remove the test connection made in STEP 5.	
7.	Repeat STEPS 4 through 6 for the remainder of registers to be tested.	
8.	Upon completion of tests reconnect the plug(s) removed in STEP 1 and 2.	

TABLE A

D-LEAD	T.S. B PCHG
D-01	32
D-02	42
D-03	52
D-04	13
D-05	23
D-06	33
D-07	43
D-08	53

D-LEAD	T.S. B PCHG
D-09	34
D-10	44
D-11	54
D-12	15
D-13	25
D-14	35
D-15	45
D-16	55
D-17	16
D-18	26
D-19	36
D-20	46

D-LEAD	T.S. B PCHG
D-21	56
D-22	17
D-23	27
D-24	37
D-25	47
D-26	57
D-27	18
D-28	28
D-29	38
D-30	48
D-31	58
D-32	21

Arrowed Lines indicate new or changed information.

Manager, Product Engineering
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Reason for Reissue
To change paragraph 1.3, the General Precautions abd add the note to paragraph 5.11.