

SWITCHED DIGITAL DATA SYSTEM TRUNK TURN-UP PROCEDURES

1. GENERAL

1.01 This section contains the procedures for verifying proper operation of trunks during initial turn-up of a new switch location and during add-on periods.

Note: Trunk, as used in this section, refers to a single transmission channel between SDDS switches.

1.02 The activities given in this section are for use by a telephone company (telco) employee at a serving test center (STC) to coordinate turn-up of a trunk.

1.03 During initial turn-up, the activities given in this section should be performed only after the DS-0 facilities and the SDDS 758C switch common equipment are installed and verified to be operating properly.

2. TURN-UP PROCEDURES

2.01 Trunk turn-up procedures are coordinated by the STC which has responsibility for maintenance of the trunk; that is, the STC at which the trunk appears at the trunk failure display. This STC is designated the control STC, while the STC at the other end of the trunk is designated the distant STC. A simplified trunk arrangement is shown in Fig. 1.

2.02 The activities involved in turn-up of a trunk are listed in Table A in the recommended order in which they should be performed *prior* to release of the trunk. Not all the activities in Table A are to be performed at the STC; the telco employee at the SDDS 758C switch will install and test the trunk circuit.

2.03 After connection procedures are performed, acceptable error performance and switch operation are verified by placing a call on the trunk at the control STC to the digital test line at the distant switch and performing an error run. This is then repeated from the distant switch.

2.04 When turning up add-on trunks, care must be exercised to prevent the trunk from becoming available for customer use before verification procedures are completed. As soon as the DSX-0B cross-connects are made at both ends of the trunk, it will be available for customer use if it is not made busy from the 950B testboard. This is accomplished in these procedures by inserting a dummy plug in the trunk TO NEAR jack (Table A, Step 5) at the control STC 950B testboard *before* the DSX-0 cross-connects are made.

Note: A trunk may be made busy by inserting a dummy plug in any one of the four associated terminating jacks at either STC 950B testboard.

2.05 The dummy plug at the control STC 950B testboard should not be removed until after the trunk call and error run to the distant switches are completed and a dummy plug inserted in the TO NEAR jack at the distant STC 950B testboard (Table A, Step 8). The same precaution must be observed when removing the dummy plug at the distant STC (Table A, Step 10). Use of the dummy plugs is not required during initial turn-up of a new switch location.

2.06 When placing the trunk call from the test trunk, the probability that the trunk will be selected by the switch for customer use is minimized by using the following procedure.

- With dummy plug in place, dial 666, route digit, 999, and four trunk digits but *do not* depress ETB.
- Remove dummy plug with one hand and depress ETB as quickly as possible with other hand. After CSA is received, dial 7-digit digital test line number and ETB.

If a busy indication is received, *do not* reinsert the dummy plug until it is determined that it is *not in use* (see trunk straightaway test in Section 314-901-310).

2.07 The trunk failure display at the control STC 950B testboard should indicate a trunk failure

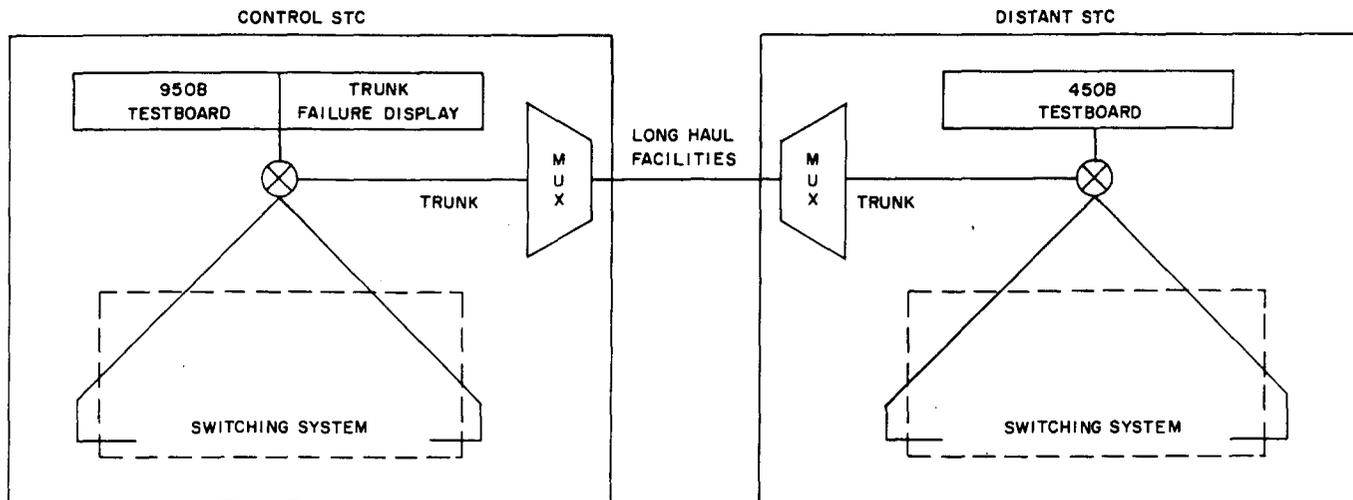


Fig. 1—Trunk Arrangement

for the add-on trunk until the dummy plug is removed in Table A, Step 12.

2.08 During initial turn-up, the following procedure should be used to verify that the trunk failure display will indicate a trunk failure. The procedure should be run from both ends of the trunk.

- Insert dummy plug in one of the terminating jacks of the 950B testboard for the trunk being turned up. The corresponding trunk failure lamp illuminates.
- Remove dummy plug and clear trunk failure display. The corresponding trunk failure lamp extinguishes.

TABLE A
TURN-UP PROCEDURES

STEP	ACTIVITIES	LOCATION INVOLVED		BSP REFERENCE
		CONTROL STC	DISTANT STC	
1	Traffic order received by telco employee.	✓	✓	
2	Identify and label with trunk ID jack modules at 950B testboard and jack and connector panel at the multiplexer or submultiplexer.	✓	✓	666-600-101 314-970-100
3	Install trunk circuit in switching system.	✓	✓	
4	Perform test of trunk circuit. Test OK: Record results Test Fails: Replace trunk circuit. Troubleshoot switching systems.	✓	✓	551-562-500
5*	Insert dummy plug in the trunk TO NEAR jack at 950B testboard.	✓		
6	Make connections at DSX-0B cross-connect.	✓	✓	314-914-100 314-914-400
7	Originate trunk call to digital test line at distant STC and perform error run. Test OK: Record results Test Fails: Refer to troubleshooting procedures.	✓		107-602-100 314-901-510 314-901-310
8*	Insert dummy plug in the trunk TO NEAR jack at 950B testboard (distant STC) and remove dummy plug from the trunk TO NEAR jack at 950B testboard (control STC).	✓	✓	
9	Repeat Step 7.		✓	
10*	Insert dummy plug in the trunk TO NEAR jack at 950B testboard (control STC) and remove dummy plug from the trunk TO NEAR jack at 950B testboard (distant STC).	✓	✓	
11	Originate trunk call from test trunk to test line at distant STC <i>using procedure given in text</i> . Verify circuit operation by transmitting numbers from DSTU and noting that the same numbers are received at the DSTU. Test OK: Record results Test Fails: Refer to troubleshooting procedures.	✓		107-602-100 314-901-510 314-901-310
12	Release trunk for use by removing dummy plug from the trunk TO NEAR jack at 950B testboard (control STC).	✓		

* Step not required for initial turn-up.