



## Cisco 15454 DS1 Test Board TB-C15454DS1 Practice

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### **2 APPLICATION**

The Cisco 15454 DS1 Test Board (TB-C15454DS1) is utilized by installers and audit (acceptance) personnel. The Test Board has Bantam jack access allowing metallic wiring verification and T1 signal acceptance to the DSX-1. The “acceptance” test determines whether or not the card slots are properly connected through the interconnect wiring and able to Transmit and Receive a good T1 signal.

Note: The TB-C15454DS1 Test Board is a temporary test board. Do not leave Test Board unattended while plugged into a Card Slot.

### **1 GENERAL**

This practice describes Telecom Assistance Group's TB-C15454DS1 - Cisco 15454 DS1 Test Board. The TB-C15454DS1 is used when installing the Cisco 15454 DS1 system.

The TB-C15454DS1 is a temporary test card that plugs into the Cisco 15454 DS1 shelf. The Test Board has Bantam jack access allowing metallic wiring verification and T1 signal acceptance to the DSX-1. The “acceptance” test determines whether or not the card slots are properly connected through the interconnect wiring and able to Transmit and Receive a good T1 signal.

For complete information See Page 2 - Physical Description/Wiring.

### **3 PROCEDURE**

Acceptance Testing requires two (2) people, and 2 T1 test sets. Tester 1 will be located at the Cisco 15454 DS1 with the TB-C15454DS1, and Tester 2 will be at the DSX-1.

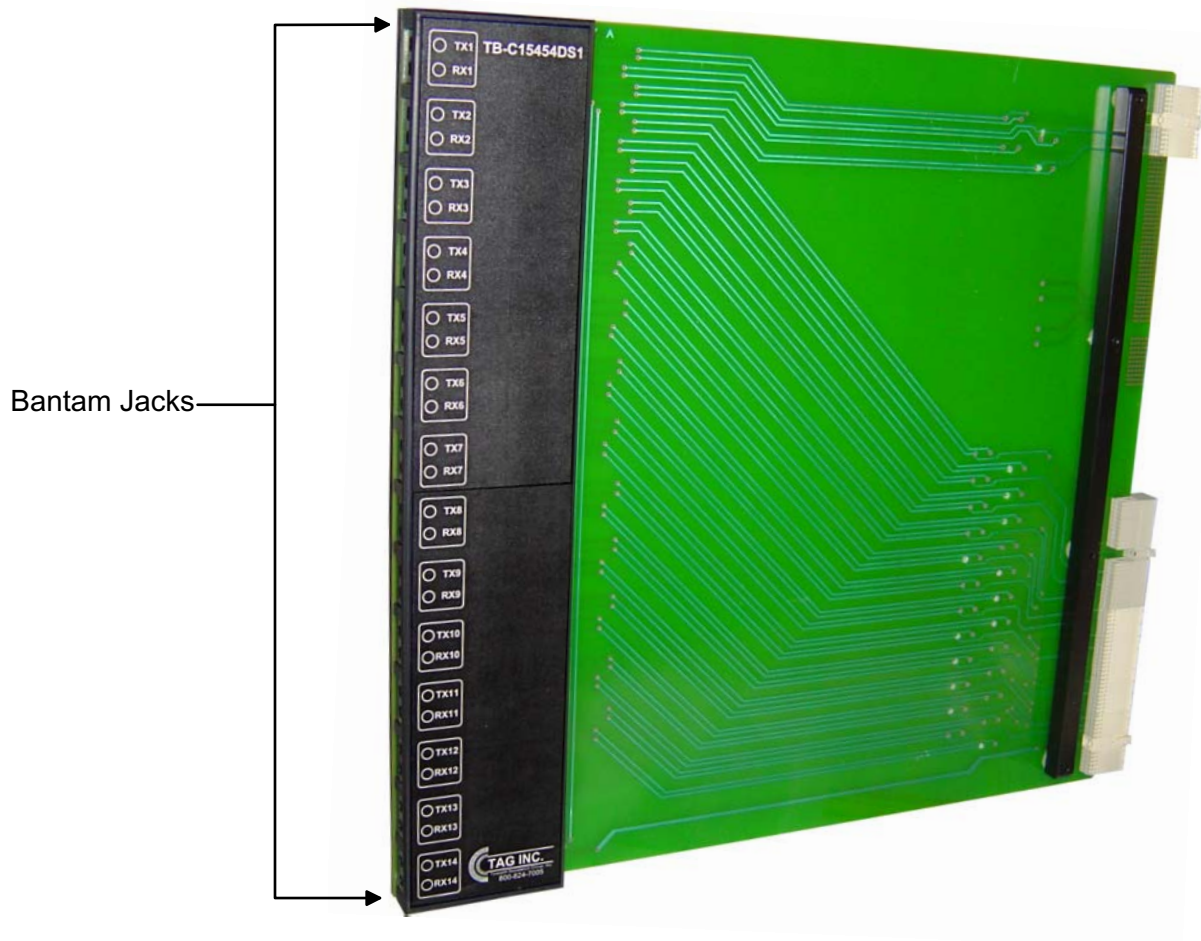
Tester 1 and Tester 2 will alternate between transmitting and receiving T1 signals to perform acceptance testing.

See Pages 3 & 4 for Step-by-Step Test Procedures.



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### 4 Physical Description / Wiring



The TB-C15454DS1 plugs into the Cisco 15454 designated DS1 card slots and provides metallic access via Bantam Jacks to the 14 DS1 circuits.

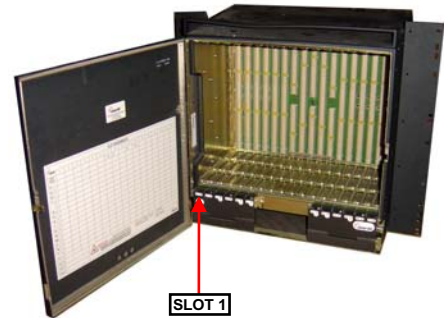
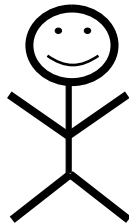
Using TAG's T-Acceptor (T1/T3 Acceptance Test Set), a technician or installer can quickly perform Acceptance Testing. The test board can be used before turn-up to verify correct Transmit and Receive cabling and good T1 signals from the Cisco 15454 to the DSX-1.



## Cisco 15454 DS1 Test Board TB-C15454DS1 Practice

### 5 Step by Step Test Procedure

**TESTER 1**  
Located at Front  
of Cisco 15454 DS1

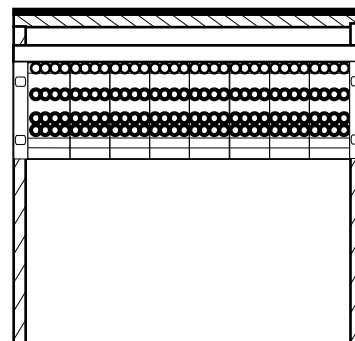
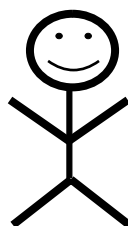


**Step Procedure**

**When plugging the test board into the Cisco shelf use normal static procedures.**

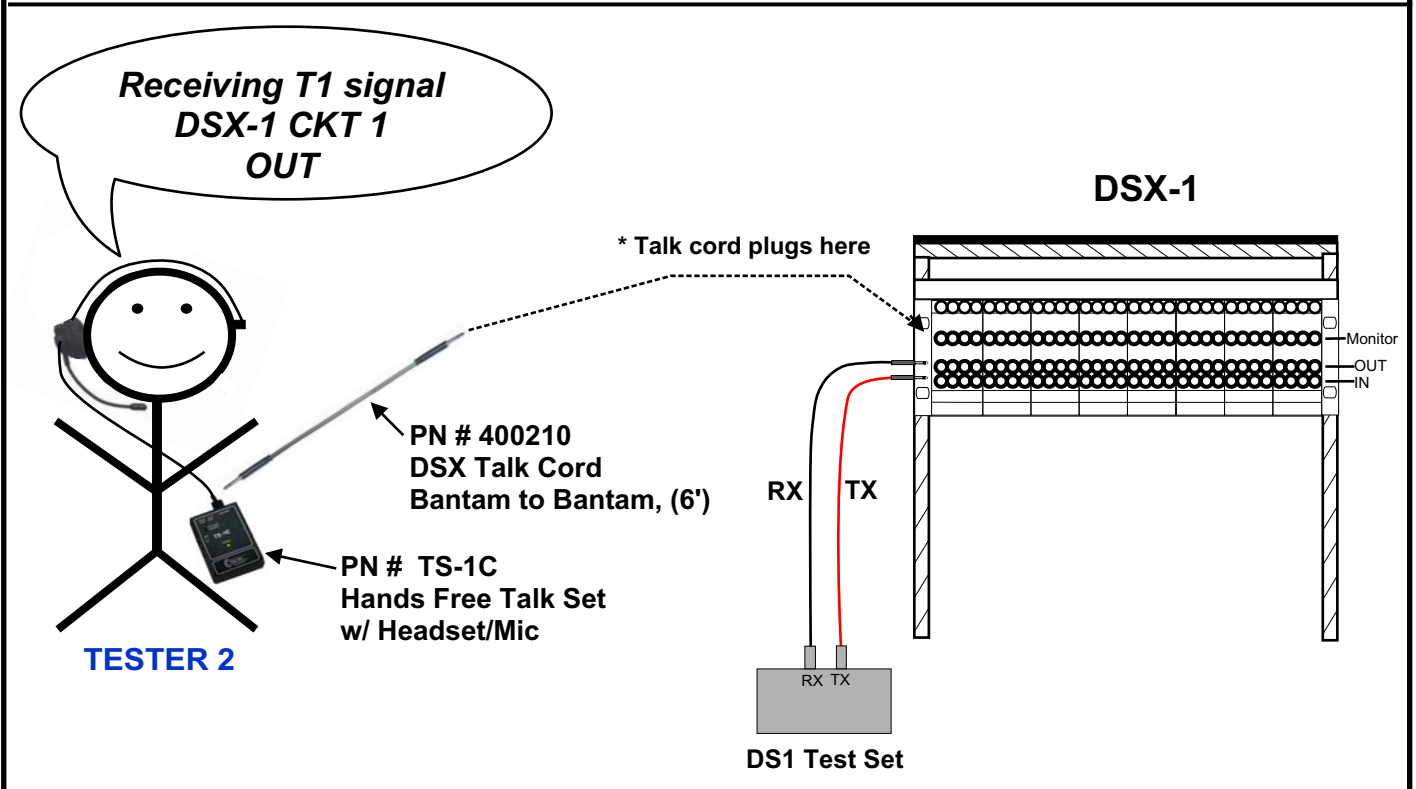
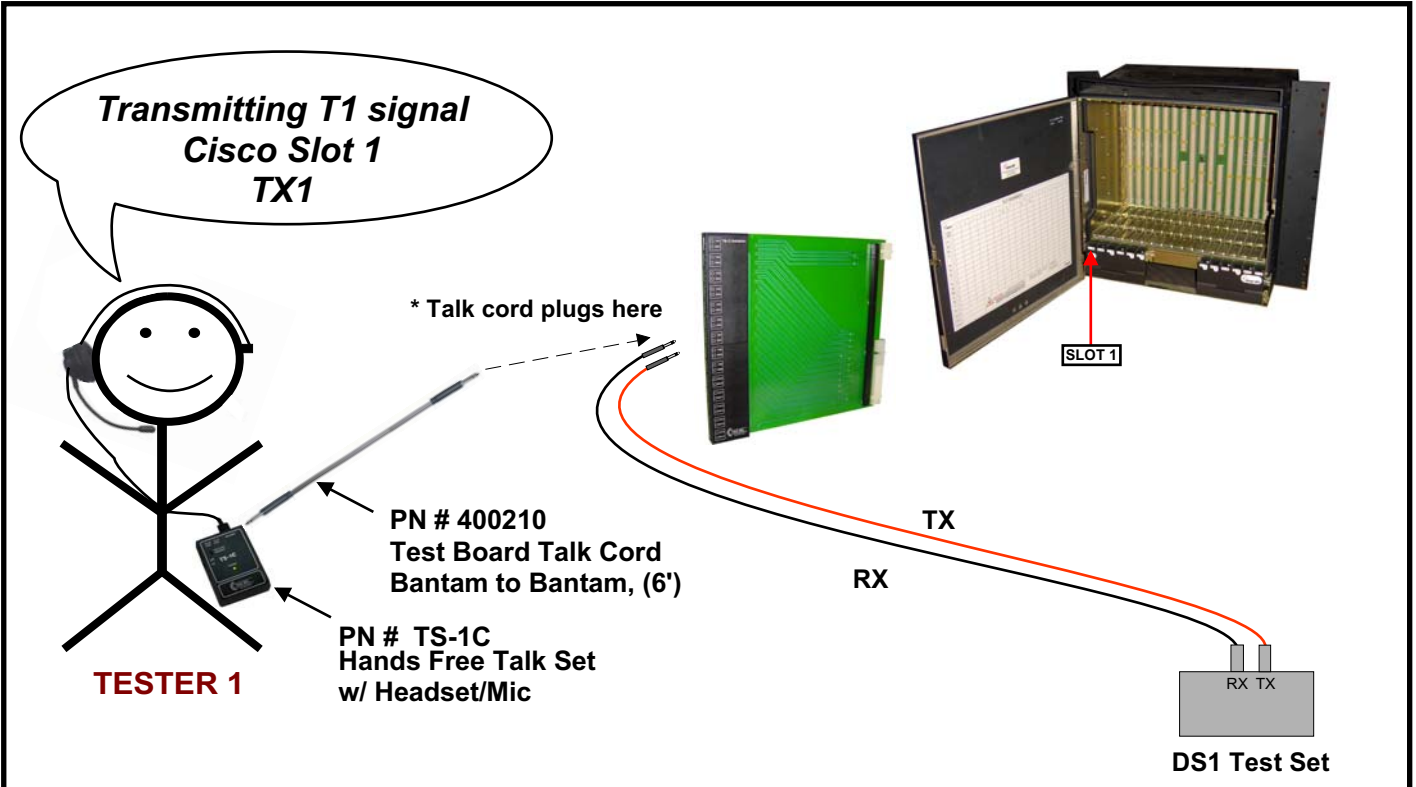
1. Visually check connector on Test Board and backplane of Cisco 15454 card slot for connector wear or pin obstruction.
2. Verify proper alignment and insert TB-C15454DS1 into card slot .
3. Establish communication with Tester 2 at the DSX-1.
4. Tester 1 will transmit a T1 test signal from Cisco Slot 1 TX1.
5. Tester 2 will record that a "Good" T1 signal has been received at DSX-1 CKT 1 OUT.
6. Tester 2 will transmit a T1 test signal from DSX-1 IN.
7. Tester 1 will record that a "Good" T1 signal has been received at Cisco Slot 1 RX1.
8. The Testers will move to the next circuit and perform the same test until all the circuits have been tested and approved.
9. Record data in Test Acceptance Data Sheet - See Page 5.

**TESTER 2**  
Located at DSX-1



## Cisco 15454 DS1 Test Board TB-C15454DS1 Practice

### 5 Step by Step Test Procedure





## Cisco 15454 DS1 Test Board TB-C15454DS1 Practice

### 6 Test Acceptance Data Sheet

Tested by : \_\_\_\_\_  
 Shelf # : \_\_\_\_\_  
 Rack # : \_\_\_\_\_

Cisco 15454 DS1			
Slot __ - 15454	Cisco 15454	DSX-1	DS1 Test Result
<b>Circuit 1</b>	TX 1	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 1	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 2</b>	TX 2	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 2	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 3</b>	TX 3	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 3	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 4</b>	TX 4	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 4	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 5</b>	TX 5	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 5	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 6</b>	TX 6	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 6	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 7</b>	TX 7	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 7	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 8</b>	TX 8	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 8	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 9</b>	TX 9	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 9	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 10</b>	TX 10	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 10	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 11</b>	TX 11	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 11	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 12</b>	TX 12	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 12	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 13</b>	TX 13	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 13	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
<b>Circuit 14</b>	TX 14	OUT	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
	RX 14	IN	<input type="checkbox"/> (P) <input type="checkbox"/> (F)
			Pass (P) Fail (F)