

BUSY LINE VERIFICATION
LIMITING AMPLIFIER SD-97761-01
TRANSMISSION TESTS
COMMON SYSTEMS

1. GENERAL

PAGE

1.01 This section describes a method of transmission testing the common systems busy line verification (BLV) limiting amplifier SD-97761-01. The amplifier is connected at end offices to no-test trunks that originate at Traffic Service Position System (TSPS) positions.

1.02 This section is reissued to:

- (a) Put in new Step, Action, Verification format
- (b) Change J3 jack to AMP jack in all tests
- (c) Change J2 jack to LIM AMP jack in all tests
- (d) Change test titles to agree with text
- (e) Change verification in Test A, Step 15, from -0.5 to -13.0.

Revision arrows are used to emphasize the more significant changes. This reissue affects the Equipment Test List.

1.03 The tests covered are:

PAGE

A. ♦End Office to TSPS♦ Limiting
Action: This test checks the loss measurement in the direction from the end office using a 0 dB source. **3**

B. ♦End Office to TSPS♦ Passing
Action: This test checks the loss measurement in the direction from the end office using a -16 dB source. **3**

C. ♦Traffic Service Position System to End Office♦ Transmission
Loss: This test checks the transmission loss in a direction from the TSPS office using a 0 dB source. **4**

1.04 These tests should be performed during periods of light traffic because the office is usually equipped with only two trunks of this type.

2. APPARATUS

All Tests

2.01 One KS-19353, L1 oscillator. Description and operating procedures are contained in Section 103-302-105.

2.02 One 23A or 23D transmission measuring set [(TMS) J94023A or J94023D]. Section 103-223-100 contains a description of these sets.

2.03 Two 2P4C patching cords, 6 feet long, equipped with a 310 plug on each end.

NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

3. PREPARATION

STEP	ACTION	VERIFICATION
All Tests		
1	At controlling office— Have trunk made busy.	
2	At TMS— Operate INPUT switch to the 900 position.	
3	Operate DIAL-MEAS-SLV switch to MEAS.	
4	At oscillator— Operate FUNCTION switch to DIAL/BAT.	
5	Operate AC-BAT switch (located on rear of the oscillator) to BAT.	
6	Operate POWER switch to ON.	BAT TEST meter deflection is within the green arc. ♦ Comment: ♦ If deflection is not within the green arc, replace batteries or connect ac power to oscillator. Section 103-302-105 describes the procedure to follow.
7	Operate FUNCTION switch to the 900 position.	
8	Rotate FREQUENCY VERNIER switch counterclockwise to the OUT position.	
9	Set FREQ RANGE switch to X10 position.	
10	Turn oscillator frequency dial until FREQUENCY CPS meter indicates 100.	
11	Patch MEAS 310 jack on the TMS to the OUTPUT 310 jack on the oscillator.	

STEP	ACTION	VERIFICATION
4. METHOD		
A. ♦End Office to TSPS♦ Limiting Action		
12	At TMS— Set the ADD DBM switch to 0.	
13	At oscillator— Rotate OUTPUT LEVEL and OUTPUT VERNIER switches until the TMS DBM meter indicates 0 dB.	
14	Remove one end of the patching cord from the oscillator OUTPUT 310 jack and plug it into the ♦AMP♦ jack of the amplifier associated with the trunk being tested.	
15	Connect patching cord between the oscillator OUTPUT 310 jack and the ♦LIM AMP♦ jack of the amplifier associated with the trunk being tested.	The TMS DBM meter indicates ♦-13.0♦ ±0.25 dB.
16	Restore oscillator power switch to OFF.	
17	Remove patching cords between the amplifier, TMS, and oscillator.	
18	At controlling office— Have trunk restored to service.	
B. ♦End Office to TSPS♦ Passing Action		
12	At TMS— Set the ADD DBM switch to -15.	
13	At oscillator— Rotate OUTPUT LEVEL and OUTPUT VERNIER switches until the TMS DBM meter indicates -1.0 dB.	
14	Remove one end of the patching cord from the oscillator OUTPUT 310 jack and plug it into the ♦AMP♦ jack of the amplifier associated with the trunk being tested.	
15	Connect patching cord between the oscillator OUTPUT 310 jack and the ♦LIM AMP♦ jack of the amplifier associated with the trunk being tested.	The TMS DBM meter indicates -1.5 ±0.25 dB.

STEP	ACTION	VERIFICATION
16	Restore oscillator power switch to OFF.	
17	Remove patching cords between the amplifier, TMS, and oscillator.	
18	At controlling office— Have trunk restored to service.	
C. ♦Traffic Service Position System to End Office♦ Transmission Loss		
12	At TMS— Set the ADD DBM switch to 0.	
13	At oscillator— Rotate OUTPUT LEVEL and OUTPUT VER- NIER switches until the TMS DBM meter indi- cates 0 dB.	
14	Remove one end of the patching cord from the oscillator OUTPUT 310 jack and plug it into the ♦LIM AMP♦ jack of the amplifier associated with the trunk being tested.	
15	Connect patching cord between the oscillator OUTPUT 310 jack and the ♦AMP♦ jack of the amplifier associated with the trunk being tested.	The TMS DBM meter indicates -0.5 ± 0.25 dB.
16	Restore oscillator power switch to OFF.	
17	Remove patching cords between the amplifier, TMS, and oscillator.	
18	At controlling office— Have trunk restored to service.	