

INCOMING TRUNKS  
DIAL TRANSFER TESTS

1. DESCRIPTION

1.01 The following tests shall be made to supplement the call thru tests of incoming trunks in W.E. Co. Handbook 6900 Section 7.25.1.

1.02 These methods are designed to test dial transfer function of the following incoming trunk circuits.

ST-521111 Incoming trunk (non-by-link)

ST-521112 Incoming trunk (by-link)

2. TEST EQUIPMENT (Obtain from the Western Electric Co.)

1 - ITE-4505 Call Thru Test Set

\*NOTE: ITE-4505 must be modified to place a 8000 ohm resistance across 3A and 3D of Answer Key to provide proper loop limits.

1 - Hand Test Set

Cords are described in W.E. Co. Handbook 69, Section 7.25.3.

3. TEST PREPARATION

3.01 Locate ITE-4505 at trunk relay rack. Connect 48V jack to 48 volts battery supply. If trunk requires multifrequency pulsing connect MF1 and 2 to MF test current supply.

3.02 Connect plug of hand test set to jack in test multiple which is connected to line termination for station A. Insert 1000 ohms in series with the tip of station "A".

3.03 Patch jack TL to jack in test multiple which is connected to line termination for station B.

3.04 Patch jack OR to T jack of trunk under test.

3.05 Provide number group field cross-connections for stations A, B, and C using following chart. Line equipment should be connected to official class of service.

STATION	CLASS	RC	LINE EQ.	TERMINATION
A -----	TR	04	-----	Test Multiple
B -----	TR	04	-----	Test Multiple
C -----	NTR	01	Same as A	Same as A

4. TEST OPERATIONS

4.01 Station Transfer

FUNCTION	OPERATION	RESULT
(a) Seize trunk and Incoming Register	Operate ST key	SUP lamp lights momentarily
(b) Connection to station A	Key or dial directory number of station A	Ringinduction is heard, ringing in hand test set
(c) Answer	Operate talk switch hand set	Ringing stops, SUP lamp lights
<u>Note:</u> SUP lamp should remain lighted on tests (c) through (n).		
(d) Check for premature transfer	Dial digit one from hand test set immediately after answer	No dial tone in hand test set

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FUNCTION	OPERATION	RESULT
(e) Transfer trunk seizure	Dial digit one from hand test set (see test notes)	Dial tone in hand test set
(f) Transfer to busy line	Dial permanent busy number from hand test set	60 IPM heard in hand test set and ITE-4505 set
(g) Release line busy	Dial digit one from hand test set	60 IPM removed. Ringing Selection switch hold magnet remains operated
(h) Transfer register reseizure	Dial digit one from hand test set	Dial tone in hand test set
(j) Transfer to station B	Dial directory number station B	Ringing in hand test set, R-lamp lights
(k) Pretrip	Operate PTP key for about 1/2 sec. during silent interval	Ringing in hand test set, R-lamp lights
(l) Answer/Trip	Operate ANS key	Ringing stops Tone is heard ITE 4505, hand test set
(m) Release transfer trunk	Release talk switch hand test set	Tone is heard ITE 4505
(n) Release incoming trunk	Release ST and ANS keys	Circuits restore

4.02 Nontransfer Test

(a) Seize trunk and incoming register	Operate ST key	SUP lamp lights momentarily
(b) Connection to station C	Key or dial directory number of station C	Ringing induction is heard, ringing in hand test set
(c) Answer	Operate talk switch hand test set	Ringing stop SUP lights
(d) Nontransfer test	Dial digit one from hand test set (see test notes)	No dial tone in hand test set. TR relay doesn't operate
(e) Release	Release ST key, restore talk switch hand test set	Circuit restores

TEST NOTES:

1. When testing ST 521111 trunks wait for operation of CH relay before dialing digit one.
2. When testing ST 521112 trunks wait for operation of P1 relay before dialing digit one.