

MODULAR CONTINUITY VERIFICATION SET
FOR TOLL CROSSBAR TRUNK
(STREAKER)

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1. GENERAL

1.1 Purpose of Test Set - The ITE-5718 List 30 Modular continuity Verification Test Set was specifically designed to be used in verification of leads terminated on No. 4 A/M Toll Crossbar Miniature Printed Wiring Board Plug-in Trunk Frames.

1.2 Circuits Tested - There are two codes of trunk frames containing a total of seven different wiring arrangements to connectors that can be tested with this set:

SD-68755-01 (J67466E) Plug-in Trunk Frame.
SD-68759-01 (J674466F) CCIS Plug-in Trunk Frame.

2. TEST EQUIPMENT

2.1 Equipment

<u>AMT</u>	<u>ITE</u>	<u>DESCRIPTION</u>
1	4442A	VOM or Equivalent
1	5718 L-30	Toll Crossbar Trunk Module Test Set

2.2 Description of Test Sets

2.21 The ITE-5718 L-30 is a completely self-contained indicating device. The LED's function is to indicate the state of the lead to which it is tied. Each LED is labeled with the corresponding lead designation. This test set draws its power from pins 1 and 6 of the connector that it is plugged into.

2.22 The power is used to form a bias voltage for dual color LEDs that are connected to the leads to be tested.

3. PRECAUTIONS

3.1 Frames to be tested using this device should have had fusing and fuse alarm tests performed before these tests are begun.

3.2 All possible care should be taken to keep from scratching the contact fingers.

4. OPERATION

4.1 Plug the test set into the connector to be tested.

4.2 Connect one end of the alligator clip lead to ground and use the other end of it to probe the leads in the circuits corresponding to the LED designations. Verify that only one LED emits green light at a time.

4.21 Multiple LED emissions indicate shorts between leads.

4.22 Red emissions indicate leads connected to battery, resistance battery or a voltage source between -48 and -24 volts.

4.23 Green emissions indicate leads grounded, resistance grounded or a voltage source between -20 volts.

5 OPERATIONAL TEST

- 5.1 Plug the unit into one of the connectors that it is designed to test. Verify that the POWER LED emits red light.
- 5.2 If it does not light, check the -48V and ground connections to pins 6 and 1 respectively.
- 5.3 If it emits green light, the power leads or the LED are reversed.
- 5.4 Verify that -22 ± 1.5 volts with respect to ground exists on the D1 (426M, large grey) diode at the rear of the board (large gold colored end.)
- 5.5 If several of the other LEDs are lighted, the -22V may be higher than -22V.
- 5.6 The red light from the ST LED is normal; it is caused by the resistance battery in the Sender/Outpulsar Link.

- 5.7 Momentarily touch ground to each of the test points on the board and verify that the corresponding LED emits green light.

CAUTION: TOUCH TEST POINT 18 (ST LEAD) QUICKLY TO PREVENT FALSE SENDER/OUTPULSER LINK SEIZURES.

- 5.8 Momentarily touch -48V to each test point and verify that each corresponding LED emits red light.
- 5.9 Unplug the unit.

NOTE: If a wiring error is identified and located during verification, affected lead(s) should be reconnected to the proper termination(s) immediately according to the handbook and drawing requirements. If not connected immediately, leads should be clearly identified with R-3436 Flags and an accurate record kept on SD-97-1313 for further action to be taken.

**Engineering Planning Manager
(Installation)**