

/// LITE-CHECK AUTOMATIC VEHICLE TESTERS

LITE-CHECK 910B QUICK REFERENCE GUIDE

Version 8.20

Getting Started

- ✓ Tester system should be fully assembled and the work area should be safe for testing and inspecting the vehicle
- ✓ Tester requires 12vdc power, and a 110psi air supply
- ✓ 2 air hoses with glad-hands and a 7-way cable are required to connect the tester to the trailer being inspected
- ✓ Do not have the tester attached to a vehicle that is being welded on

Remote Control Overview

- ✓ Remote controls and testers are keyed to each other
 - ✓ Make sure you have the RC for the tester you are using
- ✓ Press & release keys quickly
- ✓ Sending light will light up when transmitting (replace the 4 AA batteries if the light does not illuminate)
- ✓ Buttons or keys with the white background should be used when observing the tester's computer display – “ABS”, “B”, “Clear”, and “D”
- ✓ The “D” key is also the “Help” key

Electrical Operation Overview - Trailer

- ✓ Normal operation is to test/inspect one circuit at a time
- ✓ Tester's LCD display will show each circuit's voltage, amperage, and status
- ✓ The 4 fault types each have a unique audible alarm
 - ✓ Short, Open, Open Ground, Chassis Short
- ✓ When a Chassis Short is detected, the tester reduces the voltage supplied to the trailer to 5 volts until the fault condition is addressed
- ✓ “ALL CIRCUIT TEST” key will quickly sequence circuits and display the conditions of the 6 circuits on the LCD display
- ✓ To light multiple circuits at once, press the “Stored” key, then press the individual circuit keys. Press “Stored” again to turn off all circuits – *TMC-141*

Air Operation and Brake Inspection Overview - Trailer

- ✓ The “EMER” key provides “emergency air” to the trailer and allows the “service air” to be applied when the “Brake” or “Service” buttons are pressed
- ✓ The “service air” is regulated to 85-90psi by the tester
- ✓ “AIR LEAK” key will perform an air test (observe gauges for any loss)
- ✓ Use the remote control at axles to observe brake operation

1) TRAILER INSPECTION / MAINTENANCE:

- ✓ Connect 7-way cable and (2) air lines from tester to trailer
- ✓ Press “EMER” to charge trailer air system
- ✓ With remote control, walk along the trailer, press light circuits as you approach lamps and observe condition
- ✓ With the “emergency air” applied, press “BRAKE” for both lights and air brake application

- ✓ Observe brake application by cycling the “service air” on & off with the “BRAKE” key on the remote control
- ✓ With “emergency air” and “service air” on, press “AIR LEAK TEST” and observe slack movement or watch air gauges on the tester's panel
 - ✓ The tester's LCD display will display a 60 second counter

TROUBLESHOOT AND REPAIR LIGHTING CIRCUITS

- ✓ Release the “emergency air”
- ✓ Activate the light circuit with the fault. An alarm will sound and the display will show the circuit being tested and the type of fault present
- ✓ Work on circuit until alarm quits (circuit fixed) or changes (new fault)
- ✓ The tester's LCD display will show the circuit status and the current being drawn by the circuit. For “shorts”, the panel lights of the shorted circuits are illuminated to speed problem identification

2) ABS FAULT ID AND TROUBLESHOOTING:

- ✓ Software to communicate with ABS ECU's from WABCO, WABASH, HALDEX & BENDIX manufactured from **2002** on is built into the tester
- ✓ “ONE-BUTTON ABS” – Press the “ABS” key and the tester will determine the ABS manufacturer, display any existing faults, and indicate if the trailer is broadcasting a “cab on” or “cab off” command to the trailer
- ✓ The “SELECT” or “D” key will activate the help system to display the ABS manufacturer's fault information and troubleshooting guidance
- ✓ The “CLEAR” key issues a command to clear faults from the ABS ECU's memory
- ✓ For pre-2002 trailers with WABCO or WABASH Blink-Code based ABS systems:
 - ✓ Press ABS key to begin testing
 - ✓ Press the “SELECT” or “D” key to select ABS type that is present on the trailer
 - ✓ Press “ABS” to read faults from the ABS ECU
 - ✓ Press the “CLEAR” or “C” key to clear Blink Code faults

3) ABS ECU ODOMETER READING

- ✓ When in ABS mode (the ABS button has been pressed and the tester has identified the ECU) press the “ALL CIRCUIT TEST” button. Tester will display the mileage reading broadcasted by the ECU
- ✓ It may take 3 to 30 seconds for the ECU to update the mileage and send the signal to the tester.
- ✓ If you receive a “RETRY” message, wait for the screen to return to the initial ABS screen and press “ALL CIRCUIT TEST” button again.

4) 7-WAY CABLE TEST

- ✓ Press “TRACTOR” key to put tester into the “tractor” mode
- ✓ Insert the 7-way cable plugs into front and side sockets on tester
- ✓ The tester's LCD display will indicate the good and bad circuits, identify crossed wires, and display “PASS” or “FAIL” for the cable

5) ELECTRICAL- TRACTOR:

- ✓ Press “TRACTOR” **then** connect the tester to the tractor
- ✓ Check tractor battery – Activate only the “AUX” circuit without starting the tractor – Tester's LCD display indicates tractor voltage
- ✓ Check tractor charging voltage – Start the tractor and activate only the “AUX” circuit – Tester's LCD display indicates tractor voltage – *TMC-137*
- ✓ Check Tractors light circuits – Cycle the circuits on the tractor and observe the tester to confirm proper output for each

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*** CONSULT MANUAL FOR DETAILS ***