

LITE-CHECK 801M

LIGHT & BRAKE TEST STATION

NSN 4910-01-366-2563

LITE CHECK 801M

Model 800A-

Light & Brake, Military Trailer/Tractor Tester

312R -12vdc/24vdc Regulated Power Supply

1500cc air tank

test stand

air regulator

air hoses w/glad-hands

7w vehicle cable

and complete documentation

GSA Contract GS-07F-0023K



The LITE-CHECK tester connects to a trailer with standard 7w/12w inter-vehicle electrical cables and air brake lines (no retrofitting). A mechanic operates the test station via remote control to directly observe the operation of the vehicle under test. The tester automatically provides diagnosis of the vehicle's air brakes (emergency and service) and electrical lighting systems (standard and black out) by digital display and audible alarm faults. The tester can be plugged into a prime mover for electrical light testing and voltage output testing.

The integrated system provides 12vdc/24vdc power and proper air pressure levels to the vehicle under test. Portable for a shop or the system can be mounted on a service truck. 7w/12w connectors provide easy adaptability for commercial or military vehicle testing.

- **ONE PERSON** operation
- **ONE TESTER** for trailer brakes and lights
- **ONE TOOL** for trailer, prime mover, and cable testing
- **SIMPLE ACCURATE** diagnosis
- **INTEGRATED** everything you need on one mobile stand

LITE-CHECK 800-343-8579 SPOKANE, WA
FAX 509-535-7680 www.lite-check.com

BENEFITS

LITE-CHECK 801M VEHICLE BRAKE & LIGHT TEST STATION

STANDARD OPERATION: The LITE-CHECK is designed as a tester to be operated routinely regardless of the job at hand. Simple operating charts can be devised for each vehicle.

UNIVERSAL APPLICATION: All vehicles being inspected will be subjected to the same process. As the mechanics are rotated, they will be familiar with the LITE-CHECK.

SKILL LEVEL: After minimum training, every mechanic will acquire the same information in a test such as the brake air psi loss or the circuit condition (good, open, short, ground, open ground).

Commercial fleet surveys determined 35% of the time required for brake/light maintenance was required for diagnosis.

IMPROVED MAINTENANCE: Since the diagnosis is fast and accurate, component replacement will be less. Air pressure and power voltage will be consistent for higher quality maintenance and adjustment. The maintenance time for brakes and lighting will be reduced.

READINESS: The shortened diagnosis and maintenance time will favorably impact readiness.

ADAPTABILITY: Additional system tasks may be discovered.

UPGRADABILITY: The LITE-CHECK has been designed for future vehicle technology.

With ABS and other electronic technology being introduced, the LITE-CHECK can be modified and upgraded. The mechanic can perform some software upgrades on site by installing a firmware chip.

LITE-CHECK 801M FEATURES

LITE-CHECK is the universal tool for trailer brakes and lights.

REMOTE CONTROL:

- Operating range of 100 feet
- Operation is the same as tester panel switches
- Remote control is programmable for multiple testers in the same area

TRAILER AIR BRAKE OPERATION: The air brake inspection is greatly simplified by allowing the mechanic to observe the brake operation at the axles using the remote control.

- Emergency brake operation
- Service brake operation
- Air system leak test – detects air leaks in both the Emergency and Service

TRAILER ELECTRICAL OPERATION:

- Displays voltage and amperage with circuit condition (open/short/pass)
- Identifies conditions by pin number affected.
- Operates with either 12vdc or 24vdc electrical systems
- Connections for 7w and 12w cables
- Automatic audible fault alarm with display
- Verify wiring/lamps operation using the remote control
- Performs tests on incandescent and LED trailer lights

TRAILER ABS AND PLC OPERATION: The LITE-CHECK firmware will be upgraded as new technology is introduced.

- PLC capability in year 2004
- Electronic Brake Systems expected in 3-5 years

TRACTOR OPERATION: A very easy method of identifying electrical problems.

- Operate tractor for electrical conditions (display faults like trailer)
- Perform TMC Recommended Practice 137 (tractor output voltage)
- Operate truck service brakes by connecting to towing air glad-hands

VEHICLE CABLE TEST: Automatic test of the 7way and 12w inter-vehicular cables

- Display of PASS or FAIL when cable is connected to tester
- Identifies problems (miss wire/open/short) and displays problem by pin number

SAFEGUARDS:

- Reversed polarity protection
- Automatic shut down with low voltages and high amperages
- Anti-compound brake operation
(Cannot apply service air without emergency release)

LITE-CHECK Model 801M

FREQUENTLY ASKED QUESTIONS

What is required for the LITE-CHECK 801M?

1. Regulated air source of 120psi.
2. 115vac/60hz or 230vac/50hz for LITE-CHECK 312R power supply.
3. Provide protection from elements such as the rain and falling objects.

What is required to set-up the LITE-CHECK 801M?

1. Tester includes the remote control and antenna.
2. Air bulkhead fittings on tester are ¼" female
3. Tester has power cord to connect to power supply
4. The following items are included.
 - A. (2) ¼" airlines with glad-hands.
 - B. 7w light cable.
 - C. Air filter/regulator for air source.
 - D. 1300cc Air Tank for consistent air pressure.
 - E. 110 vac power cord for power supply

What type of training is required?

1. Basic knowledge of vehicle systems.
2. Brief LITE-CHECK familiarization of tester operation.
 - A. Operational manual provided.
 - B. Instructions printed on back panel
 - C. Messages displayed during operation
3. LITE-CHECK 800-343-8579 help number

What is the trailer inspection routine?

1. LITE-CHECK is set-up with power and air.
2. Connect LITE-CHECK to trailer
3. Use either panel switches or remote control to activate air and electrical systems.
4. Observe vehicle operation and read control panel display and/or hear audible alarm.

What is the tractor inspection routine? (very similar to trailer operation)

1. Connect LITE-CHECK 7way or 12way cable to prime mover connector.
Operate prime mover controls to read out on LITE-CHECK display.
2. Connect LITE-CHECK air glad-hands to prime mover towing glad-hands
Pressurize truck brake systems with remote control and observe operation

What is the Cable test routine?

1. Press LITE-CHECK panel 'TRACTOR' switch.
2. Insert both ends of 7w or 12w cord in tester.
3. LITE-CHECK automatically reads pass or fail for all cables tested. Tester then provides diagnostics of any failed tests by pin number.

LITE-CHECK WARRANTY AND SERVICE

LITE-CHECK products have a limited one-year warranty on parts and labor.

Testers and power supplies have a serial number attached for tracking.

Questions concerning operation and service may be addressed to LITE-CHECK by calling **1-800-343-8579** during normal business hours (Pacific Time Zone).

SHIPPING LITE-CHECK PRODUCTS

Please follow the following instructions for shipping the LITE-CHECK testers and products to minimize damage.

1. Remove all air connections from tester.
2. Include remote control with tester.
3. Select sturdy box that exceeds tester size by at least 2 inches in all three dimensions.
4. Pack tester in upright position with shipping label on top of box.
5. Place dunnage on bottom and all surfaces to prevent movement inside box.

SHIP TO THE FOLLOWING ADDRESS:

LITE-CHECK LLC
3102 E Trent Avenue, #215
Spokane, WA 99202

LITE-CHECK LLC

“Diagnostic Technology For Vehicle Safety”

➤ **WHO IS LITE-CHECK?**

Headquartered in Spokane, WA, and founded in 1986, LITE-CHECK is a Veteran Owned, Small Business Designated Company providing brake and lighting testers for the trucking industry. The company designs, manufactures and markets a range of testers, which are used to test and diagnose the braking and lighting systems of heavy-duty trucks and trailers.

More than 3,000 LITE-CHECK products from over 600 customers are being used today, providing these users with a totally integrated solution to diagnose brakes, lights, air and electrical operations. Customers include trucking industry leaders from the United States, Canada and Mexico. This impressive customer base encompasses: truck and trailer manufacturers, trailer fleets, truck and trailer maintenance shops, Government agencies, and the United States Military.

➤ **WHY LITE-CHECK PRODUCTS?**

As governmental mandates continue to emerge, the requirement for scheduled safety analysis and record keeping has created a new urgency for LITE-CHECK products. LITE-CHECK patented innovative products benefit the operator in more ways than merely providing an integrated diagnostic tool. LITE-CHECK products aid vehicle inspectors with speed, ease and diagnosis accuracy.

In addition to requirements for safety analysis, vehicle technology is continuing to evolve and change. Anti-lock brakes are mandated today; electronic brakes are not far behind. The future will hold new technology. These new technological advances manufactured into these vehicles can no longer be tested with “home grown” methods. LITE-CHECK products meet and exceed all of TECHNOLOGY AND MAINTENANCE COUNCIL’s (TMC) published criteria for vehicle maintenance tools and practices. LITE-CHECK employees are dedicated to enabling their products to become universal for all braking system manufacturers.

LITE-CHECK products are the answer to the needs in the trucking industry:

- Simple easy to use.....means.....No extensive training is needed.
- One person operation.....means.....Cost savings, accelerated payback.
- Accurate resultsmeans.....Correct malfunction is detected.
- Easily upgradeablemeans..... No product obsolescence.

LITE-CHECK LLC

"DIAGNOSTIC TECHNOLOGY FOR VEHICLE SAFETY"

3102 E.Trent Avenue, Spokane, WA 99202

(509) 535-7512 FAX (509) 535-7680 (800) 343-8579

www.lite-check.com

MODEL 801M (NSN 4910-01-366-2563)

- Tests the brakes and lights of military vehicles

COMMENTS FROM UNITS CURRENTLY USING THE 801M

1. "We really like the Lite-Check tester....wish we had it sooner. We no longer need a prime mover and two people to perform light/brake safety inspection on our trailers. The remote control is great."
Cliff Horner US Army 96th RSC Bismark, N.D.
2. "The 800A tester is an impressive piece of equipment. It is fast, saves time and resources."
Ed Jasso US Army 90th RSC Houston, TX
3. "I really like the tester a lot but could use a training video. I had several people trained and they loved it but now they aren't here. With a video I wouldn't have to hold a training session but could have them watch the video and be ready to operate the tester within an hour."
T.C. Ellington US Army 90thRSC Gatesville, TX
4. "It (tester) was working well until they deployed all the trailers. It will get a real workout when they come back."
Jerry Powers US Army 96thRSC Billings, MT
5. "We've had the lite-check up and running since the day we got it. It works really good and I like it a lot better than the old method."
Paul Schweyer US Army 90thRSC Ft. Smith, AR