

TRAILERteck T05

Wireless Trailer Tester



User manual

By

REDTECH inc.
2775 rue St-Pierre, Drummondville,
Québec, Can, J2C 7Y1
T : (819) 474-3832
F : (819) 472-6487

www.redtech.ca

E-mail : info@redtech.ca
1-877-773-3832

Déziel Drummond
3880 rue St-Pierre, Drummondville
Québec, Can, J2B 6V2
T : (819) 395-4232
F : (819) 395-4234



Warning

Welding:

It is very important to avoid using the TRAILERteck T05 unit when welding is being carried out on the trailer. Doing so may create a current loop that will damage the unit. The unit has an electronic protection included inside and any damage to this protection will void the warranty.


Power failure:

In the case of a power failure, all activated functions will be shut down. Therefore, for security purposes, always have a functional 12-volt battery hooked up to the device to prevent injuries.

Special order :

With a constant thinking of innovation and customer satisfaction, REDTECH always listens to customer demands and needs. We are able to deliver made to measure conception as customer request modification or special option. Some of them are now standard on device as the sequence mode, activation of electrical brake, audible alarm etc...

TRAILERteck T05 - Product Family

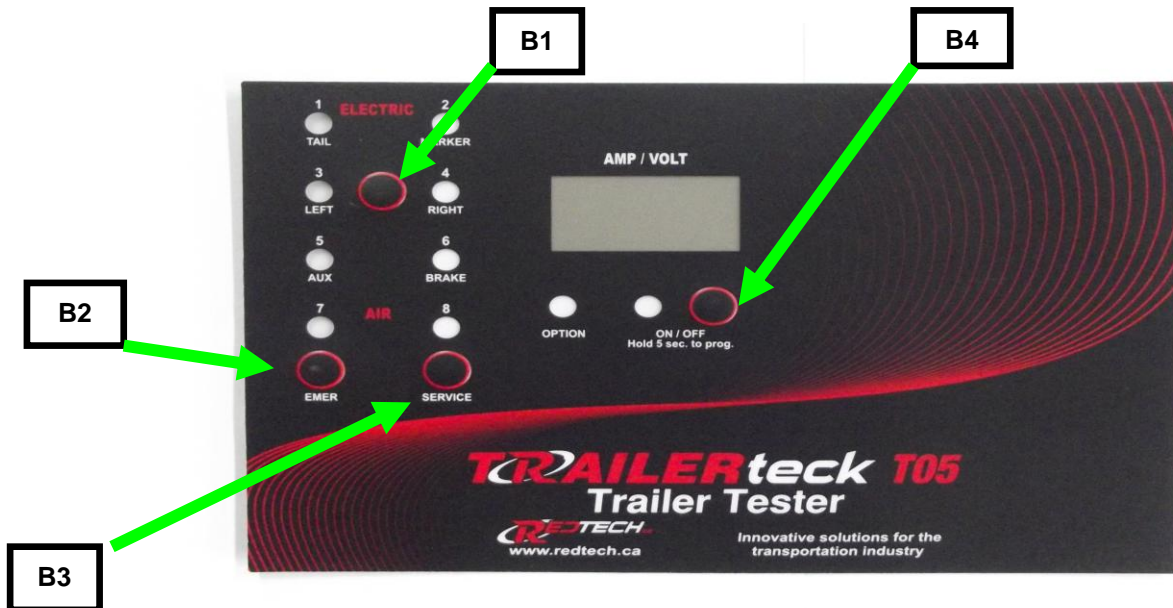
| | | |
|---|--|--|
|  | <p>T05-E (electric only)</p> <p>T05-E</p> | <p>With 15-function remote</p> |
|  | <p>T05-EP (electric and air only)</p> <p>T05-EP</p> | <p>With 15-function remote</p> |
|  | <p>T05-P (electric / air / power supply)</p> <p>T05-EP CV4501</p> | <p>With 15-function remote Charger / converter 45 amp Plug into 120v and it's work ready</p> |
|  | <p>T05-C</p> <p>T05-EP CV4501</p> | <p>With 15-function remote Charger / converter 45 amp Plug into 120v and it's work ready</p> |
|  | <p>T05-W</p> <p>T05-EP CV4501</p> | <p>With 15-function remote Charger / converter 45 amp Plug into 120v and it's work ready</p> |



CV4501

45A Power converter / charger

Control panel



| Lights | | Buttons | LED display |
|--------|--|---|---|
| 1 | Tail lights | B1 | <p>The LED screen flashes for a few seconds when the device is turned on. At that time, the screen displays the battery voltage. If the device is used with our CV4501 power converter / charger, and the CV4501 is plugged into a 120V outlet, the display shows the voltage given by the CV4501.</p> <p>When the LED screen steadies, the amperage draw is now displayed.</p> <p>FrE: When the LED display shows these letters, the T05 is in FREEZE mode. Refer below to the "FREEZE" function on the 15-function remote for more information.</p> |
| 2 | Marker lights | B2 | |
| 3 | Left signal | B3 | |
| 4 | Right signal | B4 | |
| 5 | Auxiliary | | |
| 6 | Brake | | |
| 7 | Emergency | | |
| 8 | Service | | |
| Option | Future use | | |
| ON/OFF | Light is turned on when the device is ON and flashes when it is in the remote programming mode | <p>To switch manually from one electrical function to the other</p> <p>To activate EMERGENCY manually</p> <p>To activate SERVICE manually. Emergency function has to be activated for the service function to work.</p> <p>Press to turn the device ON and OFF.</p> <p>When turning the device ON, hold for 5 seconds to enter the remote programming mode.</p> | |

The corresponding light will blink when a short circuit is detected in an activated circuit. At the same time, the device will emit an audible signal until the short is repaired.

If the light only blinks without a audible signal, it may be because you have activated the optional output of this circuit.

15-function remote



| # | Label | Electrical cord | Description |
|-------|---------|------------------|---|
| 1 | TAIL | Brown | Activates TAIL lights |
| 2 | MARKER | Black | Activates MARKER lights |
| 3 | LEFT | Yellow | Activates LEFT lights |
| 4 | RIGHT | Green | Activates RIGHT lights |
| 5 | AUX | Blue | Activates Auxiliary |
| 6 | BRAKE | Red | Activates BRAKE lights or electrical brakes |
| 7 | EMER | Air valve | Send air to the trailer tanks |
| 8 | SERVICE | Air valve | Applies and releases BRAKES. Emergency function has to be activated for the service |
| 1 – 2 | | Brown and Black | Activates both TAIL and MARKER lights at the same time |
| 3 – 4 | 4 WAY | Yellow and Green | Activates the 4-way flashers |
| | OPTION | n/a | For optional made to measure |
| | ALARM | n/a | Audible signal coming from the device |
| | SEQ | n/a | To follow a defined sequence using a single button |
| | FREEZE | n/a | For safety purposes. Hold 5 seconds to freeze /unfreeze the remote and the device |
| | PROG | n/a | To program a new remote with the device |

GettGetting started

The device needs to be hooked up to a 12-Volt power source (either a battery or our CV4501 power supply)

Follow these few simple steps to get started:

- Hook up an air line with an emergency glad hand to the emergency outlet (red) of the device.
- Hook up an air line with a service glad hand to the service outlet (blue) of the device.
- Hook up a standard 7-wire power cord to the 7-way socket.
- Put an air fitting to the air input of the device and hook up shop air to it.
- Hook up the emergency and service glad hands and the 7-way power cord to the trailer.
- You are ready to start using the device.

Programming a remote control

A remote control can be programmed very quickly in a few easy steps.

15-function remote

- Make sure the device is turned off
- Press and hold the ON/OFF button on the control panel for approximately 5 seconds until the ON/OFF light starts to blink.
- Release the ON/OFF button
- Press the red button (PROG) on the remote and release
- The remote is now programmed

Special function of remote

Function #3 et #4 : Flasher constant or blinking

The device came normally programmed with the output of the flasher activated constantly. If you want to have that output to flash, you have to press and hold the #3 or #4 for 5 second. You will witness the difference with the activation of the output flashing and the light on the trailerteck will blink. You will hear the buzzer if this option is activated. To come back at a constant output, you have to press and hold the #3 or #4 for 5 second again.

Function #6 : standard brake light or Electrical brakes

To activate the electrical brake function, you must press and hold the button #6 for 10 seconds. You will witness the activation of the electrical brake once the brake light on the Trailteck starts blinking. The output current will go down a bit to permit the activation of the electrical brake system

Function alarm

Hold for 5 seconds to activate/deactivate the audible signal coming from the device when a remote function is activated

Function Freeze

. For safety purposes. Hold 5 seconds to freeze /unfreeze the remote and the device. When the remote and the device are frozen, all the functions activated will stay activated but no other functions can be applied

Diagnostic functions

Air leaks

- Hook up shop air to the TRAILERteck unit
- Hook up the unit to the semi-trailer
 - Emergency
 - Service
- Turn on the EMERGENCY function
- Allow the pressure to stabilize
- Turn on the SERVICE function
- Allow the pressure to stabilize once more
- Shut off the manual entry valve to prevent the air from flowing into the device and the trailer.
- Since the device is air tight, a pressure drop on one of the two the pressure gauges means an air leak in the corresponding air circuit of the trailer.

Electrical problems

The LED screen flashes for a few seconds when the device is turned on. While it flashes, the screen displays the battery voltage. If the device is used with our CV4501 power converter / charger, and the CV4501 is plugged into a 120V outlet, the display shows the voltage given by the CV4501.

When the LED screen stabilizes, the amperage draw is now displayed. The amperage draw can help find electrical problems such as faulty connections or corrosion. Electrical problems have a tendency to create resistance, which generates heat, which then causes the amperage draw to rise slowly.

It works as follow:

- Activate all the electrical functions (lights #1 to #6 on the control panel)
- Wait for approximately one minute for the current draw to stabilize
- If you see a continuous but slow increase in the amperage draw, 0.1 Amp at a time, there might be an electrical problem. If this is the case:
 - Turn off all the lights on the device.
 - Isolate the problem by bringing the lights on individually until you find out in which electrical circuit the problem is located.

Short circuits:

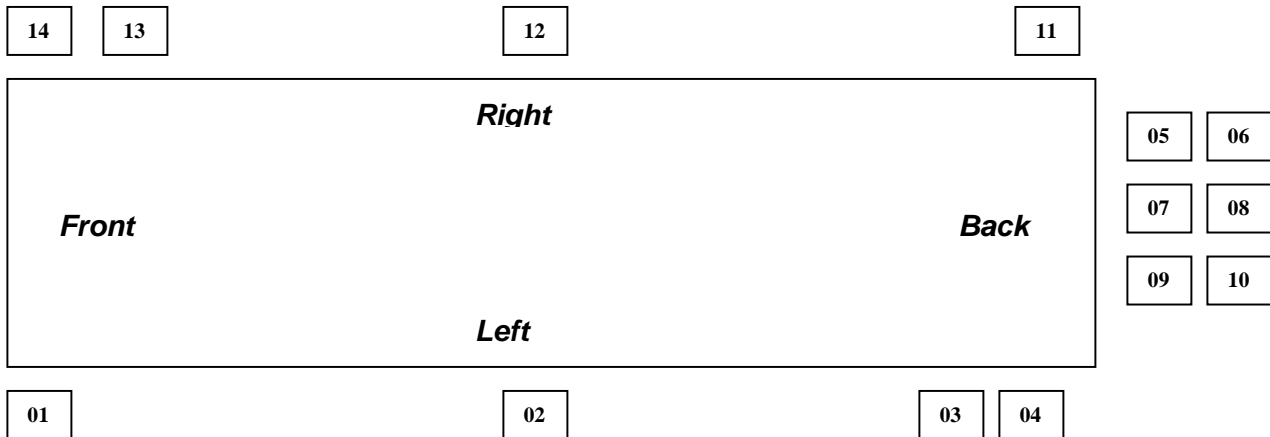
If a short circuit is found in one of the activated functions, the corresponding light will blink on the control panel. At the same, a sound signal will be heard until the function is deactivated or the short circuit fixed.

Ground problem:

If there is a ground problem on the trailer, during the inspection, the TRAILERteck device will exhibit unpredictable behaviour. That happens when the activated functions on the trailer don't match the signals sent by the remote. The TRAILERteck device will not solve the ground problem; it will only help find it. To carry on the inspection, simply get a good ground on the trailer with the alligator clip that comes with the device.

Appendix 1: 14-step sequence

The sequence simulates the walk around a trailer by a mechanic while executing a sequence with the SEQ button on the 15-function remote. The goal is to check all the lights on the trailer using only this button.



The mechanic walks on the left side of the trailer from front to back

- 01 Tail + Marker
- 02 Tail + Marker + Left signal
- 03 Tail + Marker
- 04 All lights off

The mechanic goes to the back of the trailer

- 05 Tail + Marker
- 06 Left signal
- 07 Right signal
- 08 Brakes
- 09 All lights on
- 10 All lights off

The mechanic walks on the right side of the trailer from back to front

- 11 Tail + Marker
- 12 Tail + Marker + Right signal
- 13 Tail + Marker
- 14 All lights off

Limited warranty

This product is covered by the manufacturer's warranty for 12 months from the date of purchase by the original purchaser against any defect in materials or workmanship.

Application:

- The external components of the unit are warranted for a period of 90 days from the date of purchase

The external components include:

- Electrical cables
- Pneumatic hoses
- Glad-hands, glad grips
- Electrical connectors
- Pressure gages
- Regulators

Parts deemed defective during this period will be replaced or repaired at the manufacturer's discretion. The manufacturer reserves the right to replace the complete unit in lieu of parts. This warranty does not cover failures due to damage caused by accident or during transport, by inappropriate manipulation or operation, by abuse, by inappropriate use, or by repairs carried out by unauthorized persons. This limited warranty supersedes any other warranty, express or implied, including warranties of merchantability or fitness for a particular purpose, nor will the manufacturer be held responsible for fortuitous damages for any reason whatever.

For the warranty to be valid the product must be returned intact without any modification unauthorized by the manufacturer.



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(877) 773-3832