

# TIREBOSS™ 2

## Tire Pressure Control

### OPERATOR GUIDE



- ◆ Operation
- ◆ System Checks & Maintenance
- ◆ Support Procedures
- ◆ Emergency Procedures

### IMPORTANT INFORMATION

- ◆ The TIREBOSS system is a Tire Pressure Control System that provides monitoring and control of tire pressures
- ◆ References to system components in this operator guide are as follows: **OCU**-Operator Control Unit; **SCU**-System Control Unit; **VCU**-Valve Control Unit
- ◆ First time users need to review this Operator Guide & watch the Driver Video on the OCU before operating this system
- ◆ The OCU must be on at all times when vehicle is moving
- ◆ All wheel end manual valves to tires must be open before operating vehicle
- ◆ If service work is being performed, where wheels & tires are removed, ensure valve cores are removed from tire valve stems when reconnected

**WARNING: If you see “DANGER TIRE PRESSURE LOSS” you must stop vehicle immediately & check for air loss**

### START UP SEQUENCE

When the OCU is first turned on (ignition power switched on), the system takes some time to boot up and get to the main “Home” screen.

The first screen that appears is the “Video Access” screen.



After the warning screens the main “Home” screen will be displayed



NOTE: Skip directly to the “Home” screen by touching the Skip button



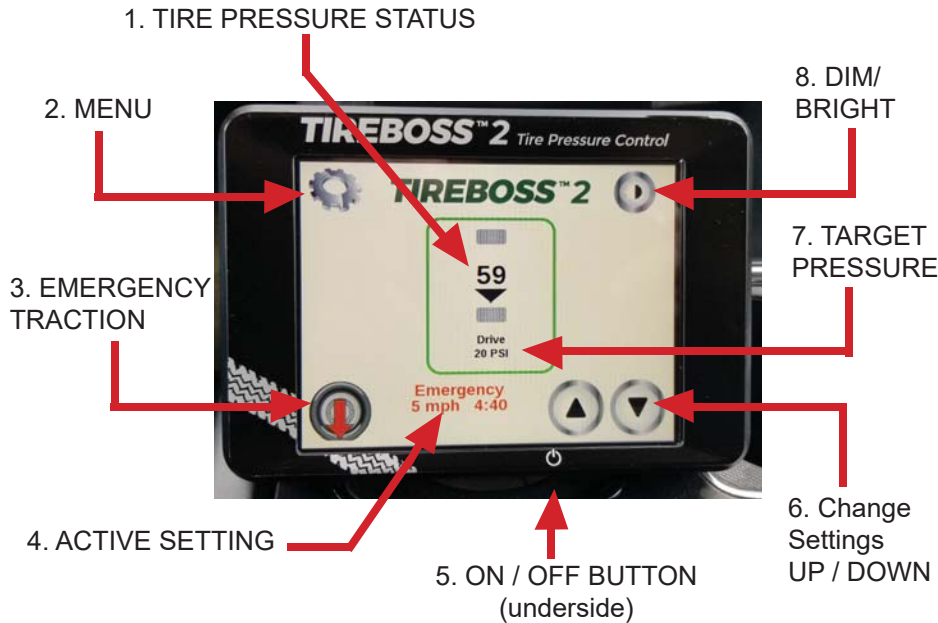
### OPERATOR TRAINING VIDEO

Access the “Training Video” by touching the ‘Video’ button during the start up of the OCU.

From the “Home” screen, the ‘Video’ button can be accessed by touching the Menu button

NOTE: Video cannot be viewed if vehicle is moving





**1. TIRE PRESSURE STATUS**

Displays the current tire pressure, tire group name, target tire pressure and inflate or deflate actions

**2. MENU**

Access to the settings, options and system information

**3. EMERGENCY TRACTION**

Quick and direct access to Emergency Traction Function

**4. ACTIVE SETTINGS**

Displays current setting, speed limit and time remaining in setting (if applicable)

**5. ON / OFF BUTTON (underside)**

Hold button for 2 seconds to activate ON/OFF function

**6. Change Settings UP / DOWN**

Scrolls through programmed settings

**7. Target Pressure**

Displays target pressure for selected setting. Current Pressure may be higher than target pressure due to normal tire warming

**8. DIM / BRIGHT**

Dims display for night operation. There are 3 levels of brightness



This button on each MENU screen describes the function of each button on that screen

**SET "IN SERVICE DATE" (if applicable)**

If the "Not in Service" alert appears on the top of Home Screen

Touch these buttons in the following order:



Touch and hold the "Set In Service" button (Shield with down arrow). Verify that the In Service Date changes to the current date.

Return to "Home" screen



**VIEW SETTINGS & CHANGING APPLICATIONS**

To view or change the Application, go to the "View/Change Application" screen:



To view the pressure/speed settings, select the desired application and touch the magnifying glass to view the settings available in that application



Touch the back button to return to the "View/Change Application" screen



To change the application, select the desired application and touch and hold the "Enter" button. The application will be changed and the main "Home" screen will be displayed



NOTE: some listed applications may not be accessible (Greyed out)

**DISABLE TRAILER CIRCUIT (if applicable)**

This function is used only with a system that has a trailer control circuit and the trailer is not connected to truck, or when pulling a trailer that is not equipped.

This will cause the TRAILER "AIR FLOW RESTRICTION" alert to activate. When this alert is displayed, a pop-up window asks the user if the trailer is disconnected. If the user responds with a "YES", then the trailer group is disabled. When the trailer group is disabled, a red "X" is located where the current pressure is normally displayed. To re-activate the valve group, once the airline is connected to the TIREBOSS equipped trailer, the user must touch and hold the red "X"

**SERVICE MAINTENANCE OVERVIEW**

The following checks and maintenance items are required to properly maintain your TIREBOSS Tire Pressure Control system for optimum performance.

- PRE-TRIP CHECKS**
- Ensure all wheel end manual valves are open (handle in line with hose)
  - All lines & wheel end components are secure and in good condition
  - Listen for air leaks and correct if required
  - Start the vehicle and ensure system is on (with no alerts)

- DAILY**
- Drain wet tanks and observe moisture content
  - If equipped with a TIREBOSS electronic auto drain valve, listen for the short 1 second exhaust of air when ignition is turned on and every 5 minutes while truck is running
  - Walk around the vehicle and visually inspect all components for any damage or excessive air leaks

- WEEKLY**
- Inspect Rotary Unions. Some movement in the union is acceptable
  - Excessive movement is indicated by air leakage when checking

- MONTHLY**
- Deflate tires to lowest setting (Emergency) and check that all tires are deflated the same. If not, check for blockage at the tires or lines that did not deflate.
  - Inflate tires to highest setting (Highway) at high idle and ensure that no alarms were activated, and set point was achieved

- ANNUALLY**
- A Complete Annual Service Inspection should be performed
  - This includes rebuilding the control valve(s) and doing a complete service on the air-drying system.

- ROTARY UNIONS**
- Rotary unions with grease fittings require one pump of grease only applied at regular oil service intervals
  - DO NOT use power greasers, and DO NOT over grease
  - If grease starts to appear around bearing, that is excessive
  - Note that unions without grease fittings do not require lubrication

**LONG TERM PARKING**

In the event that the vehicle must be parked for an extended period of time, it is recommended to follow these procedures:

1. Inflate all tires to maximum pressure (eg. Highway)
2. Close all manual wheel valves at all wheels (90 degrees to hose)
3. Open all manual wheel valves when vehicle is going back into service
4. Note that vehicles with TIREBOSS automatic Wheel End Valves do not require the manual wheel valves closed for short term parking

**SUPPORT PROCEDURES**

In order to help us identify system components and/or alerts and error messages, complete the following sequence of steps:

Also Include the Vehicle Unit Number or Registration Plate Number (so we know which vehicle it is on)

1. Take a photo of the Home Screen displaying the error message.



2. Touch the following icons in the following sequence to display the System Information Screen.



Touch the System Setup Icon in the upper left corner of the Home Screen



Then touch the System Status Information Icon.



Then touch the System Information Icon.

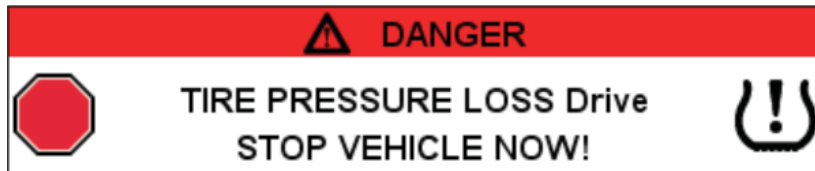
3. Finally, take a photo of the System Information Screen.

These two photos will need to be attached to any correspondence with our TPC Technical Support staff.



**EMERGENCY PROCEDURES****A. DAMAGED EXTERNAL AIR LINES OR BLOWN TIRE**

In the event that the external air supply lines have been damaged, or a tire has blown, the OCU will display,



1. Immediately stop vehicle when safe to do so.
2. Identify air loss and repair as required before resuming operation

**B. AIR LEAKS AT CONTROL VALVE EXHAUST PORT**

1. If air is leaking from control valve exhaust port, and causing the tires to deflate, shut off the manual ball valve at bottom of control valve to stop leak
2. Follow the procedures in Section C below until system can be repaired

**C. CONTROL SYSTEM MALFUNCTION**

In the unlikely event that the TIREBOSS system needs to be disabled due to malfunction:

1. Build air in tires to highest setting. If not able to do this at the OCU, external air can be added to each tire group at the schrader fittings on side of each VCU, or at the schrader fitting on each WEV (if equipped)
2. Shut off ALL wheel end manual valves at ALL wheels.(90 degrees to hose)
3. Shut off control system at button on bottom of OCU (only after all tires inflated and all wheel end manual valves closed)
4. Vehicle can then be driven as normal without TIREBOSS until control system can be repaired. Ensure tire pressures are at highest pressure and wheel end manual valves shut off.

# **TIREBOSS™ 2**

## **Tire Pressure Control**

### **KEEPS YOU MOVING**

## For service and Support

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