



**General Information** 

**GI-11057-015**

<b>Subject:</b>	<b>Placard Pressure Change</b>	
<b>Make(s):</b>	<b>Model(s):</b>	<b>Year(s):</b>
See chart below	See chart below	See below
<b>Sensor(s):</b>	N/A	
<b>Tool</b>	<b>Software Version</b>	
Tech 500	R53.0 or newer	
Tech 400PRO	R53.0 or newer	

**Overview:**

As part of release 53.0 the Bartec tool noted above can now adjust the Placard Pressure as required for certain alternate wheel and tire combinations. With the use of Load Index Charts and following proper Plus Sizing practices, the system can be updated to the new Placard Pressure. (Note: Vehicles with TPMS are required to alert of LOW PRESSURE condition at or below 25% of the Placard Value)

- Why do you need to change the Placard Pressure Value?
- How do you know what to set the Placard to?
- How the Bartec Tools assist with Adjusting the Placard Pressure
  - o VIN Number look-up via OBD
  - o Limiting ranges of Pressure based on VIN and Load
  - o Setting Front and Rear Axle
  - o Reading existing pressures and DTC's
- Alternate tire size stickers
- Placard Pressure values and Test Before You Touch

**Why do you need to change the Placard Pressure Value?**

When “plus sizing” on vehicles, in some cases a different pressure is needed to maintain the original equipment load rating. On vehicles equipped with TPMS a Placard Pressure Value change is needed to insure the system remains operational.

*Example:* 2014 Ford F-150 with 265/70-R18 OE would be 35psi placard. If Plus size to 305/35-R24 (Plus six) the new Placard Value would need to be 42psi



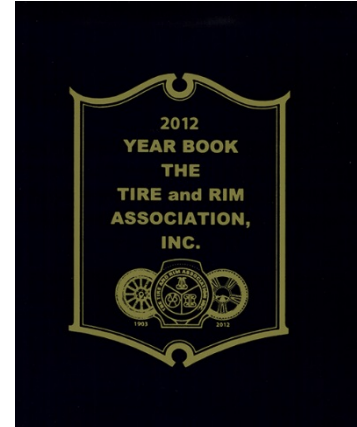
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### How do I know what to set the Placard to?

Using the Tire and Rim (or equivalent supplied by Tire Manufacture) Load Index tables, you will be able to reference the new tire size and the required load to determine the pressure necessary to maintain that load.

*Note: Bartec USA recommends NEVER replacing a tire with one that is a lower load rating than the OE!*



### How the Bartec Tools control Adjusting the Placard Pressure

- a) VIN Number Look-up via OBDII: by using the VIN Bartec is able to correctly determine the Make-Model-Year and Load Range (Limiting the Pressure Range)
- b) Limiting Pressure Range based on VIN and Load: by setting up the MMY/Load, the tool is configured to stay within the pressure ranges suitable for those loads. (IE: if the vehicle is load range D/E the pressure is limited from 50psi to 80psi) Only allowing pressure and load ranges suitable for that selected vehicle.
- c) Setting Front and Rear Axle: The tool will allow for split placard to be set
- d) Reading existing Pressure Settings and DTC's: giving the existing (old) values and any Diagnostics Trouble Codes gives the complete picture to the technician.
- e) Audit Data: TPMS Desktop gives access to and manages Placard Data Audit files.



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**Alternate tire size stickers**

Once the new Tire Size is installed and Placard Values are set, place the appropriate sticker alongside / below the vehicle placard.

SUPPLEMENTAL TIRE COLD INFLATION PRESSURE		
Tire Size	Load Index	Cold Inflation Pressure (PSI)
Front:		
Rear:		

AT THE VEHICLE CAPACITY WEIGHT ON TIRE SAFETY PLACARD

**Placard Values and Test Before You Touch**

Since identifying the vehicles existing settings is a critical 1<sup>st</sup> step Bartec has integrated retrieving the values from the system during the Test Before You Touch process and display the values assisting in TPMS Diagnostics.

Pos	PSI
Front:	42
Rear:	42

**PRO SERIES**



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Details:

- Coverage R53.0
- Before you Begin - IMPORTANT
- The Process
- Final Steps

**Coverage for R53.0:**

<b>Make</b>	<b>Model</b>	<b>Year</b>
Dodge	Ram 1500	2008
Dodge	Ram 1500	2009
Ford	F-250	2015
Ford	F-150	2014
Chevrolet	Silverado 1500	2014
Chevrolet	Silverado 1500	2015
Chevrolet	Silverado 2500	2014
Chevrolet	Silverado 2500	2015
Chevrolet	Silverado 3500	2014
Chevrolet	Silverado 3500	2015
GMC	Sierra 1500	2014
GMC	Sierra 1500	2015
GMC	Sierra 2500	2014
GMC	Sierra 2500	2015
GMC	Sierra 3500	2014
GMC	Sierra 3500	2015



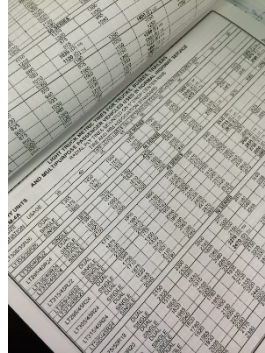
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**Before you begin - IMPORTANT:**

BEFORE YOU BEGIN, Bartec recommends you complete the Placard Change Process and Verify before Installing the New Wheel and Tire Package to eliminate installing a new package and not being able to complete the change.

To determine the new Placard Pressure, please reference Load Index Chart like those provided from Tire Manufacturers or using the Tire and Rim Association Yearbook.



**TOYO TIRES**

Open Country M/T Load Inflation Table

\* Never exceed the tire's maximum load as indicated on the sidewall.  
Replacement tires must be of a size, load range, and load capacity (by inflation) that are capable of supporting the load of the vehicle's originally installed (O.E.) tires.

Note: Letters in parentheses indicate the Load Range for which Solid Faced loads are a maximum.

Tire Size	80	85	90	95	100	105	110	115	120	125	130
205/45R16-100	1000	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500
205/45R16-105	1050	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550
205/45R16-110	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600
205/45R16-115	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650
205/45R16-120	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700
205/45R16-125	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750
205/45R16-130	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800
205/45R16-135	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850
205/45R16-140	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900
205/45R16-145	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950
205/45R16-150	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000
205/45R16-155	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050
205/45R16-160	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100
205/45R16-165	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150
205/45R16-170	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200
205/45R16-175	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250
205/45R16-180	1800	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300
205/45R16-185	1850	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350
205/45R16-190	1900	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400
205/45R16-195	1950	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450
205/45R16-200	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500

This process is controlled using the VIN obtained using the OBDII – connect and verify support before installing new wheel/tire package.

**The Process:**

- From Home Screen, Navigate to the Toolkit





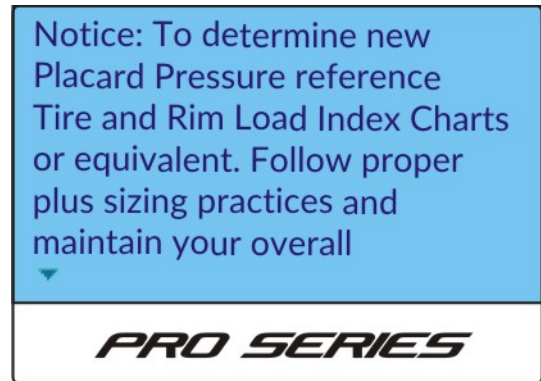
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- Select Placard Pressure



- Tool will display important information



- Tool will prompt to connect to OBDII and press Enter

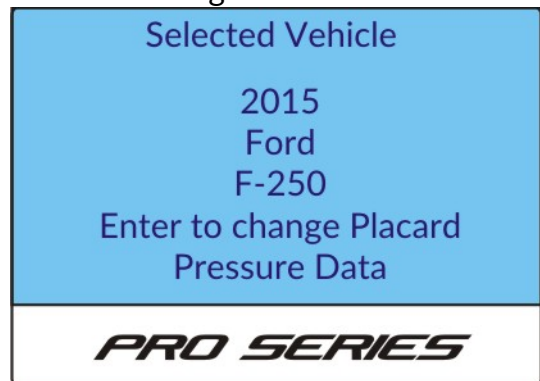




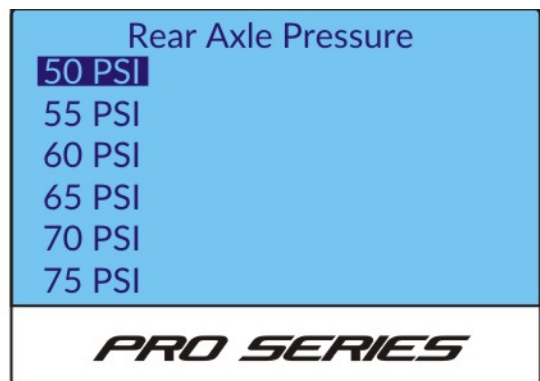
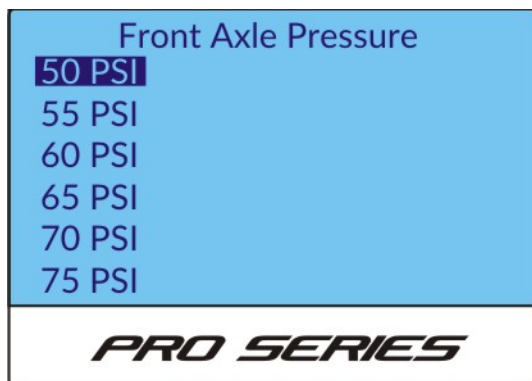
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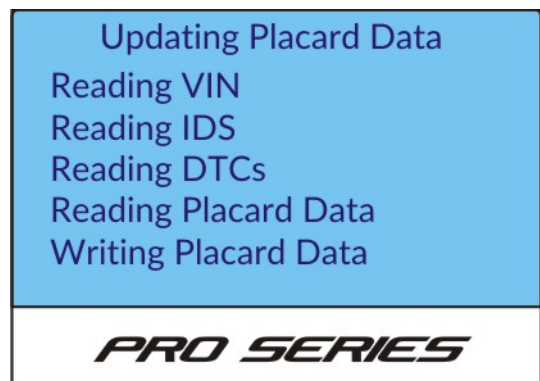
- Tool will read out VIN and configure the Make-Model-Year-Load Range



- Tool will prompt to configure Front Axle Pressure
- Tool will prompt to configure Rear Axle Pressure



- Tool will configure the new placard





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- Tool will display NEW and OLD pressure allowing verification

Verify Changes

Old Front: 80  
New Front: 65  
Old Rear: 80  
New Rear: 80  
VIN: 1FT7W2B69FEC98375  
DTC: 0  
[Enter to Save Changes](#)

**PRO SERIES**

- Set air pressure correctly

### Final Steps

Now that you have altered the Placard Pressure, place the Alternate Placard Sticker on the customers B-pillar with the correct Pressure, Tire Size, and Load Information as required.

### Best Practices

Always print the audit report and save the tool record!



### References:

Tire Industry Association (TIA)  
The Tire and Rim Association  
Rubber Manufacturers Association (RMA)

For further training and information on Automotive Tire Service which includes use of Load Index Tables and Plus Sizing, please visit <http://www.tireindustry.org/online-university>