

Product Name: Mazda BT50/ Ford Ranger BRA  
Product Description: Boost Reference Adaptor  
Product Number: TS-0720-1001

**TURBOSMART**  
*Engineered to WIN*

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#### ABOUT THIS PRODUCT

Thank you for purchasing your new boost reference adaptor. This new product includes great features. These include:

- Very simple solution to obtaining a boost pressure reference for your vehicle.
- Durable, reversible, compact and very easy to install.

#### IMPORTANT NOTES ON YOUR BOOST REFERENCE ADAPTOR

- Use only silicone hose that is the correct size and pressure rating for your application when fitting your boost reference adaptor.
- Ensure that all hoses are secured with clamps.
- **The boost gauge is sold separately. The boost gauge part number is TS-0101-2023.**

#### RECOMMENDATIONS

- **Turbosmart recommends that an accurate boost gauge be permanently fitted to the vehicle.**
  - **Turbosmart recommends that your boost gauge is fitted by a qualified technician.**
  - **Turbosmart recommends that your boost reference adaptor is fitted by a qualified technician.**
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## HOW TO INSTALL YOUR BOOST REFERENCE ADAPTOR

#### TOOLS REQUIRED

General mechanic tools

#### BOOST REFERENE ADAPTOR INSTALLATION

- Allow the engine to cool down before installing your boost reference adaptor.
- Locate the factory fitted MAP sensor on the right hand side of the engine.
- Remove the MAP sensor plug.



- Loosen the screw holding the factory fitted MAP sensor in place. Ensure that this screw is kept in a safe place.



- Gently pull out the factory fitted MAP sensor and place in a safe location.



- Install the boost reference adaptor, ensuring that the O-ring is not kinked while you gently push the boost reference adaptor into position.
- Secure the boost reference adaptor in place by using the original factory supplied screw. Be careful not to over tighten the screw.



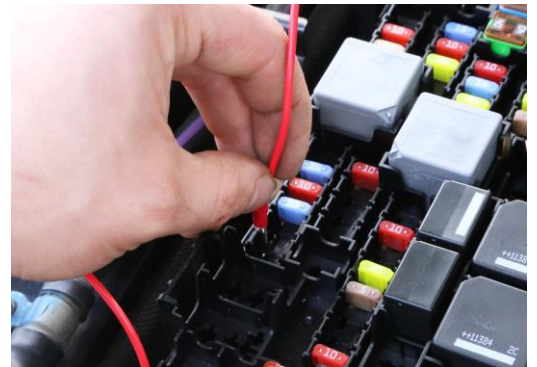
- Install the MAP sensor, ensuring that the O-ring is not kinked while you gently push the MAP sensor into the boost reference adaptor.
- Secure the MAP sensor in place by using the supplied bolt. Be careful not to over tighten the screw.



- Secure a vacuum hose onto the nipple located on the boost reference adaptor.
- Use hose clamps/spring clamps to secure the vacuum hose onto the nipple.
- Gently re-plug the MAP sensor.



- **Turbosmart recommends that you consult a qualified auto electrician.**
- **Please note that these steps are required only if you are installing a boost gauge. Following parts are not included in this kit.**
- Disconnect your battery before continuing.
- Take the cover off the fuse box located behind the battery.
- Locate pin "F49" in the fuse tray. This was a *spare* fuse position on our test vehicle. Ensure that it is a 12VDC ignition switched output on your vehicle by using a multimeter.
- Crimp the supplied spade connector on one end of the supplied inline fuse.
- Insert the spade connector into the fuse holder. Ensure that it is secured in position.
- Route your cable out of the fuse box and secure the fuse tray cover back on.



- Route the vacuum hose and the power cable into the vehicle.
- Turbosmart recommends using the grommet shown.
- Mount your boost gauge and connect the red wire to the power source obtained from the engine bay. Ground the black cable. Insert the vacuum hose on-to the boost gauge.





This image shows the engine bay after the boost reference adaptor is installed. The boost reference adaptor complements the engine bay. It provides an easy, reversible, cost effective, compact and durable solution to obtaining a boost reference for your vehicle. Enjoy your new Turbosmart product. Happy motoring!

### Troubleshooting

The following points should be checked if you are experiencing problems with your boost reference adaptor installation.

- Ensure that the boost reference adaptor is installed correctly.
- Check that the MAF sensor is correctly installed.
- Use a multimeter to check for an ignition switched 12VDC output for boost gauge illumination.
- Ensure that the O-rings are not kinked during installation.
- Follow supplied instructions to install the boost gauge.
- Any other problems, don't hesitate to contact your local Turbosmart dealer.

# The Turbosmart Pledge

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***Happy motoring!***  
**The Turbosmart Team**

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