

Product Name: **FCD 1**
 Product Description: Pneumatic Fuel cut defender
 Product Number: TS-0303-1001



IMPORTANT NOTES ON YOUR BOOST CONTROLLER

- Consult your local specialist before setting your desired boost pressure and FCD boost level
- Setting boost beyond your engines capability may result in engine damage
- To safeguard against "pinging" or detonation, always use the highest octane fuel available
- Please check www.turbosmartonline.com for the latest updates and information on fitting your Turbosmart FCD

RECOMMENDATIONS

- Turbosmart recommends that your FCD is fitted by an appropriately qualified technician
- Turbosmart recommends that the engines Air/Fuel ratio is checked once the FCD and desired boost pressure is set, as any increase in boost pressure or incorrect setting of the FCD can cause the engine to run "LEAN", resulting in possible engine damage

HOW TO INSTALL YOUR FUEL CUT DEFENDER

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Please check that the following items have been provided in your FCD 1 Kit

Quantity	Description	Use
1	FCD 1	Clamping the pressure signal to the MAP sensor
1	Mounting bracket	Mounts the FCD1 to a secure location
1	M4X4 Button head screws	Secures FCD1 to the bracket

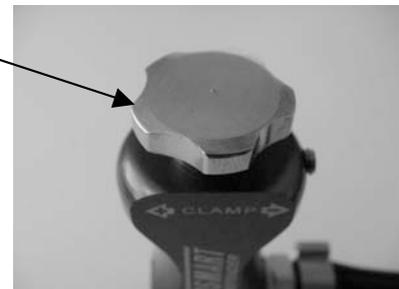
FITTING YOUR FUEL CUT DEFENDER

- Locate the vehicles MAP (Manifold Absolute Pressure) Sensor, it is connected to the engines wiring harness by three wires, and has one pressure hose joining it to the inlet manifold (Fig. 1)
- If you are unsure of the location of the MAP sensor please refer to the specific factory workshop/repair manual for your model of vehicle
- Install the FCD T-piece between the MAP sensor and the pressure signal. Make sure the arrow is pointing towards the MAP sensor
- Ensure all hoses are not cracked, blocked, kinked or restricted and all connections are secured with hose clamps
- Mount the FCD with the supplied bracket in a suitable position to allow access for adjustment and be adequately shielded from heat, i.e. positioned at least 100mm or 4" from the turbine housing or the exhaust manifold

Figure 1 MAP Sensor (Subaru WRX)



Figure 2 Clamp dial



- Before making any adjustment the **Clamp Dial** (Fig. 2) will need to be fully closed (anti-clockwise)
- Adjustment to the FCD is made by turning the **Clamp Dial**
- Turn clockwise to increase the fuel cut level and anti-clockwise to decrease the fuel cut level
- Turbosmart recommends that the fuel cut limit is set 2-3 PSI (0.14 – 0.21 BAR) above the desired engine boost pressure
- If you wish to lock the setting of your FCD to avoid further adjustment, use a 2mm Allen key to tighten the detent grub screw in the side of the FCD until the adjustment knob is locked

TROUBLE SHOOTING

If experiencing difficulties the following checks will cure 99% of problems experienced when fitting a Turbosmart FCD

- Check that the FCD is installed on the correct engine sensor. (MAP sensor) (fig. 1)
- Check the joining hoses for splits, cracks or loose connection
- Check that the joining hoses are not blocked or kinked or restricted
- Check to see if the FCD is blocked or contaminated with dirt, oil build up or debris

The Turbosmart Pledge

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Limited Warranty: Turbosmart warrants its products to be free from defects in material and workmanship under normal use and if properly installed for a period of one year from date of purchase. If found to be defective, it will be replaced or repaired if returned prepaid along with proof of date of purchase. This shall constitute the sole remedy of the purchaser and the sole liability of Turbosmart to the extent permitted by law, the foregoing is exclusive and in lieu of all other warranties or representations whether expressed or implied, including any implied warranty of merchantability or fitness. In no event shall Turbosmart be liable for special or consequential damages. This warranty is only valid on products purchased from Turbosmart Authorized Dealers.

Service: After the warranty period has expired, repair service is charged based on a minimum and maximum charge rate. (Contact Customer Service for current rate).

Returns: When returning a Turbosmart product for repair, it must be accompanied by a completed Customer Warranty Form and RMA number. To access this form please go to our website www.turbosmartonline.com and you will find it on the Downloads page.

THE TURBOSMART PLEDGE

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We sometimes make mistakes, as do our dealers, distributors and suppliers. Even customers can sometimes order the wrong parts. Do not use, modify, install, trial assemble, nick, drop, scratch or adjust any part until you first check for any damage. Damage must be reported immediately. NO EXCEPTIONS. If there are any components missing please contact your authorized reseller immediately upon receipt of your shipment. Missing components must be reported within five (5) business days of receipt. Parts returned for any reason MUST BE IN RESALABLE CONDITION. It is YOUR responsibility, "THE CUSTOMER" to carefully package any returns to avoid shipping damage. Insurance is highly recommended. Credit cannot be issued for damaged goods.

Turbosmart warrants the quality of the products it designs and manufactures to be free of defects in material and workmanship. This limited warranty is extended only to the original purchaser and may not be transferred or assigned. This limited warranty applies to any product, which after careful inspection by Turbosmart, after receipt of the product from our authorized reseller, is found to have a defect in either material or workmanship. Any modifications to the product will void any and all warranties and will not be exchanged. Before installation, check new car warranty. Turbosmart is not responsible for voiding any original manufactures warranty.

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Happy motoring!
The Turbosmart Team.

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