

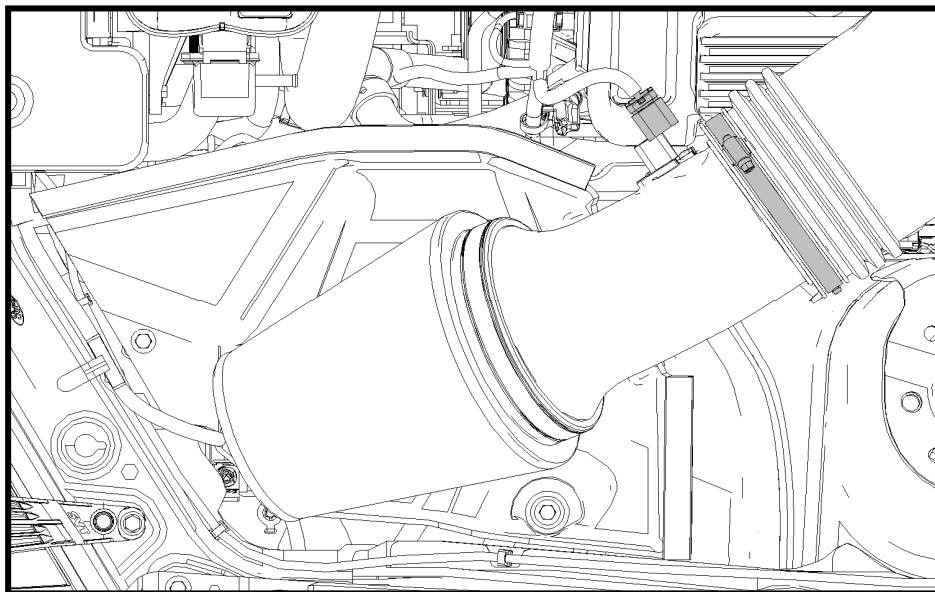


M-9603-SVT07 113 mm Cold Air Kit w/Premium Calibration INSTALLATION INSTRUCTIONS

NO PART OF THIS DOCUMENT MAY BE REPRODUCED WITHOUT PRIOR AGREEMENT AND WRITTEN PERMISSION OF FORD RACING PERFORMANCE PARTS.

Please contact the Tech Line for the most current instruction information (800) 367-3788.

!!! PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION !!!



OVERVIEW:

This kit is designed for use on 2007-08 Ford SVT Mustang Cobra.

NOTES:

- **BEFORE INSTALLING** the Cold Air Kit, please register this product by following the steps listed on the yellow voucher card included with the kit. **PRODUCT REGISTRATION IS REQUIRED** to receive the ProCal tool used to recalibrate the vehicle PCM. Operating the engine without the PCM recalibration will result in engine damage or failure and will **VOID THE WARRANTY**.
- Please read the installation instructions carefully and verify that all items are present. If you are missing hardware or have any questions, please contact the Ford Racing Tech Line at (800) 367-3788.
- Premium fuel (91 octane or higher) is required to prevent "spark knock" or detonation under certain operating conditions. The use of fuel additives (i.e., octane boosters) is not recommended. There is a possibility that these chemicals can damage your engine and cause drivability issues with your vehicle.

Tech Line (800) 367-3788

Factory Ford shop manuals are available from Helm Publications, 1-800-782-4356

IS-1850-0145



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KIT INCLUDES:



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<u>Item #</u>	<u>Qty</u>	<u>Part Number</u>	<u>Description</u>
1	1	R07060101	Clean Air Tube
2	1	R07060106	Airbox Assembly
3	1	R07060131	High-Flow Conical Air Filter w/Worm Clamp
4	1	R07060104	Clean Air Tube Support Bracket
5	3	N605771	Bolt – Bracket to Tube and Airbox (M6 x 13)
6	1	N808920	Bolt – Airbox to ABS Bracket (M8 x 33)
7	1	R07040044	E.O. Label (D-418-9)

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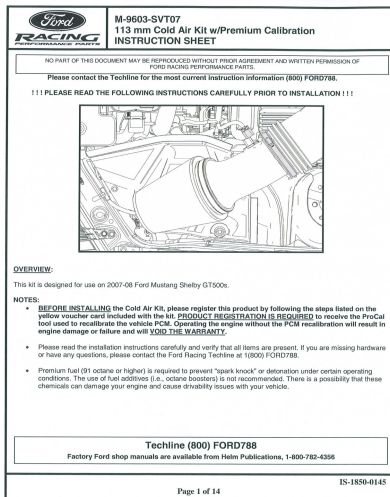


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Item #	Qty	Part Number	Description
8	1	R07140004	Registration/Warranty Voucher
9	1	IS-1850-0145	Installation Instructions
10	0**	NPN	ProCal Flash Tool

The ProCal Flash Tool is **NOT included in the kit. Once you **register** the product and **request** the ProCal tool, one will be shipped to you.

EQUIPMENT AND SUPPLIES REQUIRED:

- 1/4" and 3/8" drive ratchets with extensions
- Metric and standard socket sets (short and deep recommended)
- Metric and standard wrench sets
- Drive torque wrench
- Short Phillips-head screwdriver
- Hex key set
- T-20 Torx Bit screwdriver or socket
- Medium-strength thread locker – Loctite 242 (blue) or equivalent
- Ford Service Manual

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SAFETY PRECAUTIONS:

!!! STOP! CAREFULLY READ THE IMPORTANT SAFETY PRECAUTIONS AND WARNINGS BEFORE PROCEEDING WITH THE INSTALLATION !!!

Appropriate disassembly and assembly methods and procedures are essential to ensure the personal safety of the individual performing the kit installation. Improper installation due to the failure to correctly follow these instructions could cause personal injury or death. Read each step of the installation instructions carefully before starting the installation.

- Always wear safety glasses for eye protection.
- Place ignition switch in the OFF position.
- Always apply the parking brake when working on the vehicle.
- Block the front and rear tire surfaces to prevent unexpected vehicle movement.
- Operate the engine only in well-ventilated areas to avoid exposure to carbon monoxide.
- Do not smoke or use flammable items near or around the fuel system.
- Use chemicals and cleaners only in well-ventilated areas.
- Batteries can produce explosive hydrogen gas, which can cause personal injury. Therefore, do not allow flames, sparks or flammable sources to come near the battery.
- Keep hands and any other objects away from the radiator fan blades.
- Keep yourself and your clothing away from moving parts when the engine is running.
- Do not wear loose clothing or jewelry which can be caught in rotating or moving parts.

DISASSEMBLY INSTRUCTIONS:

The following section will guide you through the disassembly of the stock components. Special care should be taken to label fasteners and parts that are taken off during this procedure since many will be reused.

STEP 1: Cover both fenders with fender covers to protect the vehicle finish.

STEP 2: Disconnect the negative (-) and positive (+) connections to the battery. Cover the positive (+) battery terminal to prevent any contact.

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- STEP 3:** Disconnect the MAF wiring from the airbox. Loosen the clean air tube clamp and disconnect the clean air tube from the airbox (See Fig. 1).

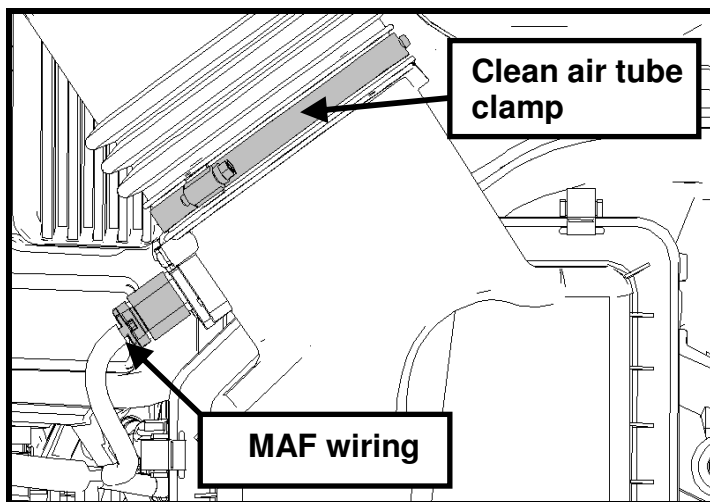


Fig. 1

- STEP 4:** Remove the airbox retainer bolt and airbox from vehicle (See Fig. 2).

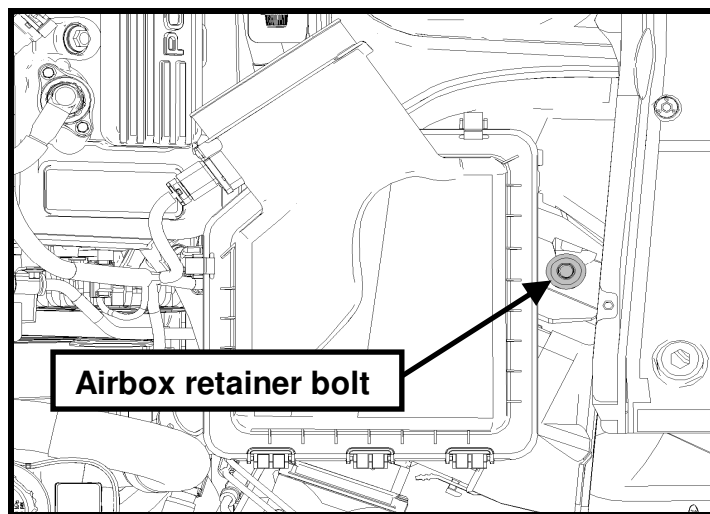


Fig. 2

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STEP 5: Remove the three grommets, MAF and MAF bolts from the factory airbox (See Fig. 3). These will be reused.

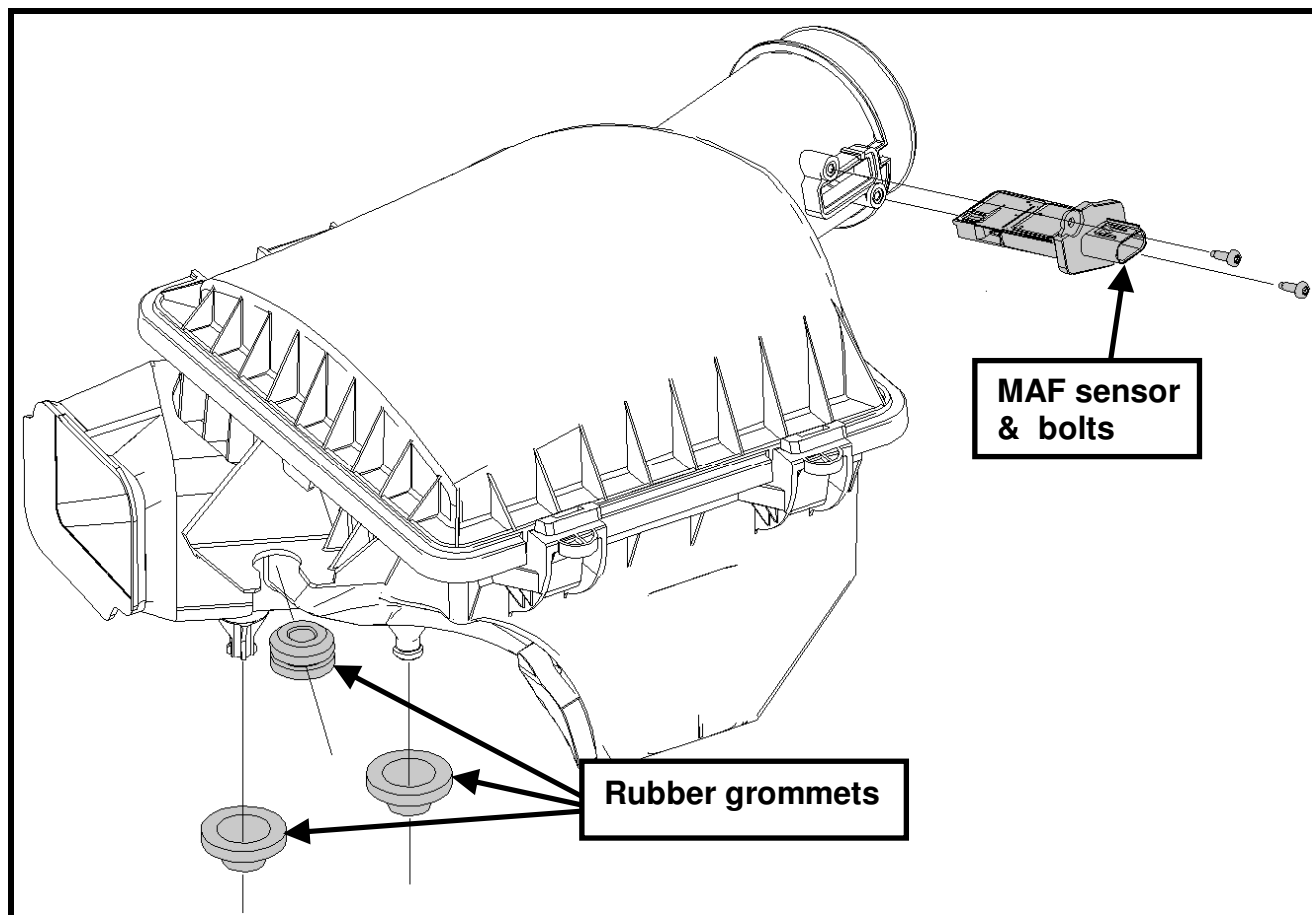


Fig. 3

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INSTALLATION INSTRUCTIONS:

The following section will guide you through the installation of this kit. If you need to stop during any part of the installation, make sure you cover the clean air tube inlet to prevent foreign material from contaminating your engine.

STEP 1: Install the MAF sensor and bolts from the stock airbox into the new clean air tube (R07060101). Torque the bolts to 4 Nm (35 lb in) (See Fig. 4).

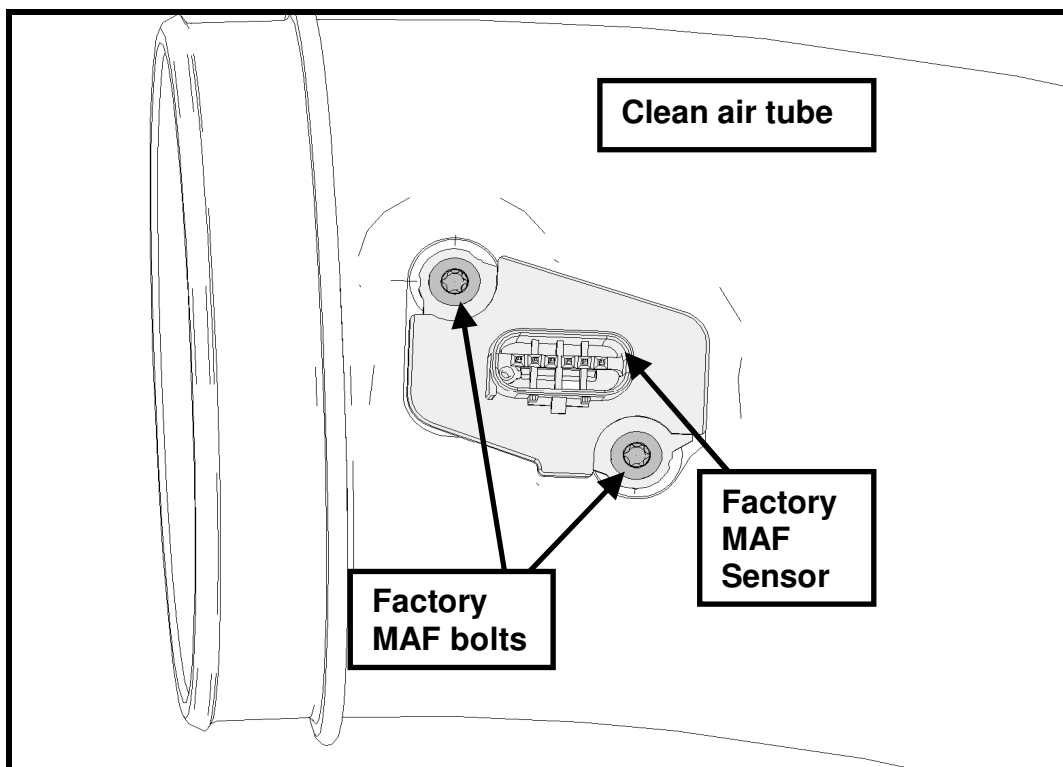


Fig. 4

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STEP 2: Install the clean air tube support bracket (R07060104) to the clean air tube and position using the alignment marks on both the bracket and the tube. Secure the bracket to the tube using bolt (N605771) supplied in kit (See Fig. 5). **NOTE:** Apply medium-strength thread locking compound to the bolt threads prior to installation and torque to 10 Nm (88 lb in).

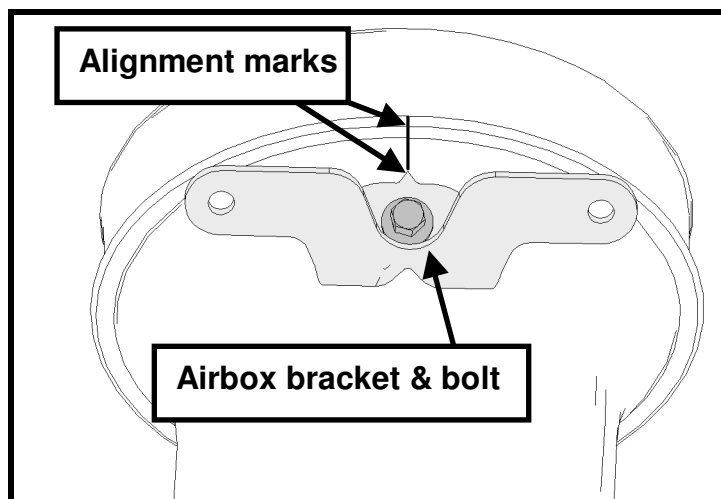


Fig. 5

STEP 3: Install the air filter (R07060131) to the clean air tube and torque the worm drive clamp to 3 Nm (26 lb in). **NOTE:** Align the metal strip on the air filter with the alignment mark on the clean air tube (See Fig. 6).

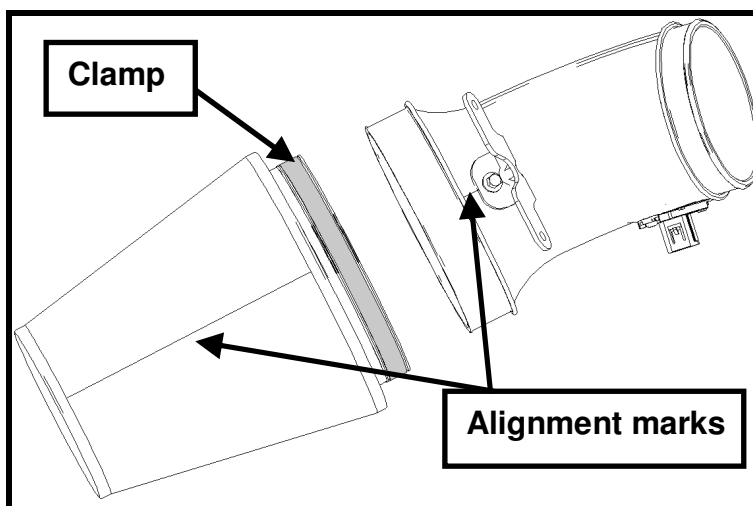


Fig. 6

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- STEP 4:** Install the rubber grommet from the factory airbox into the new airbox housing (R07060106).
NOTE: Remove the metal sleeve to ease grommet insertion into the airbox. Once the rubber grommet is firmly seated in position, re-install the metal sleeve into the grommet (See Fig. 7).

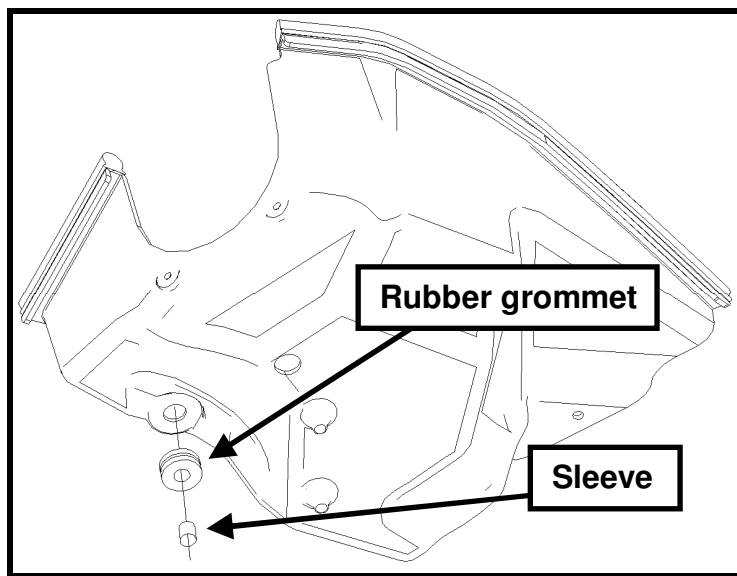


Fig. 7

- STEP 5:** Assemble the air tube and filter onto airbox housing using two bolts (N605771) and torque to 10 Nm (88 lb in) (See Fig. 8).

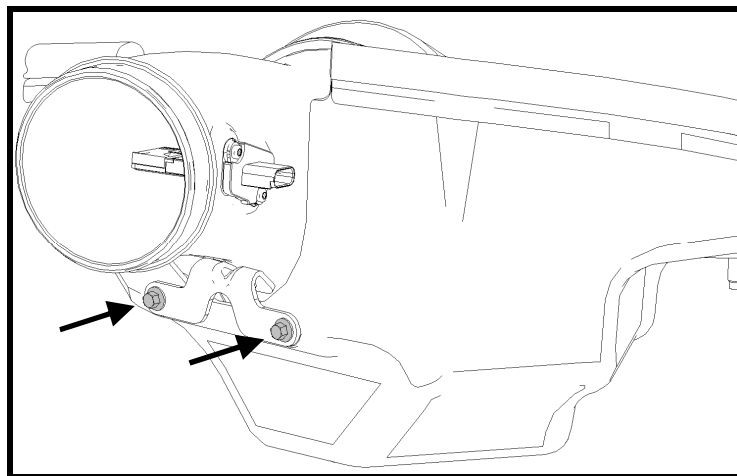


Fig. 8

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STEP 6: Locate the ABS module bracket and remove the bolt shown below (Fig. 9).

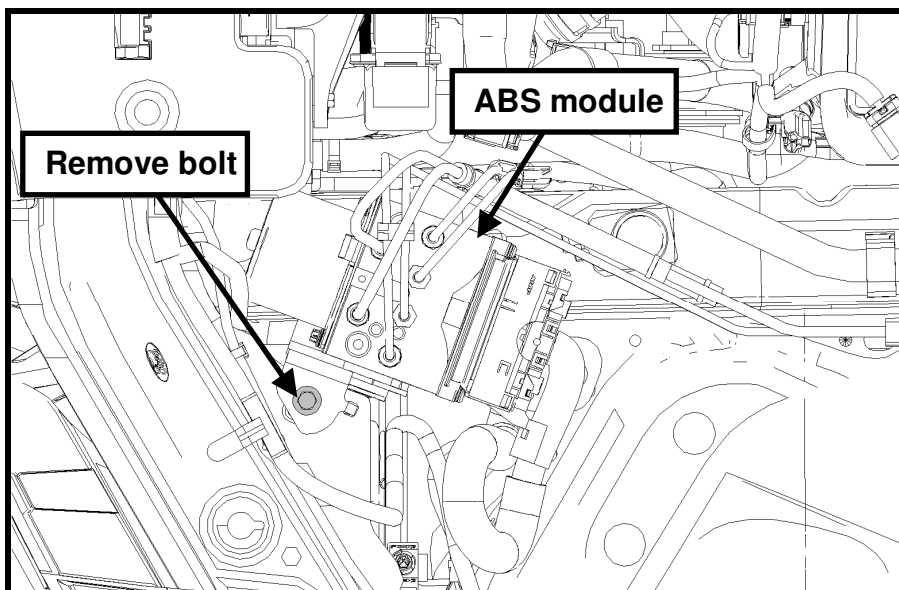


Fig. 9

STEP 7: Install the rubber grommets (previously removed from the factory airbox) into the holes located beneath the airbox, rearward of the ABS module (See Fig. 10).

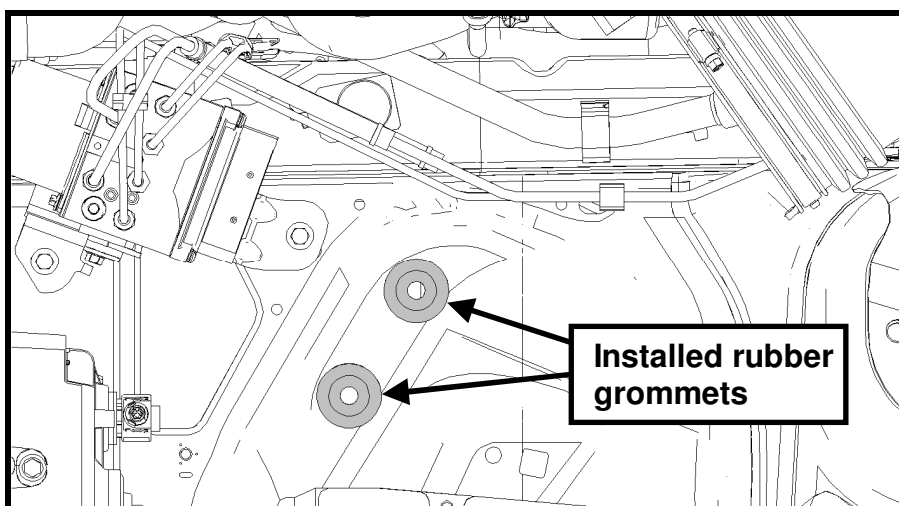


Fig. 10

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STEP 8: Lower the complete airbox assembly into the vehicle using the two pegs as guides into the rubber grommets. Use the take-off airbox bolt and newly supplied ABS bracket bolt (N808920) to secure the airbox in the vehicle. Torque the M6 bolt to 10 Nm (88 lb in), and the M8 bolt to 25 Nm (221 lb in) (See Fig. 11).

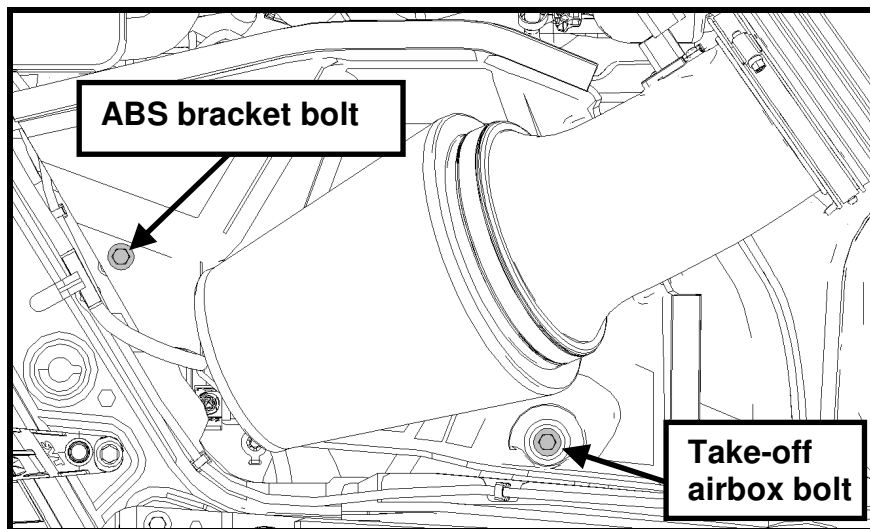


Fig. 11

STEP 9: Install the stock rubber clean air tube onto the new clean air tube. Tighten the worm drive clamp and torque to 3 Nm (26 lb in). Re-install the MAF electrical connector onto the MAF sensor (See Fig. 12).

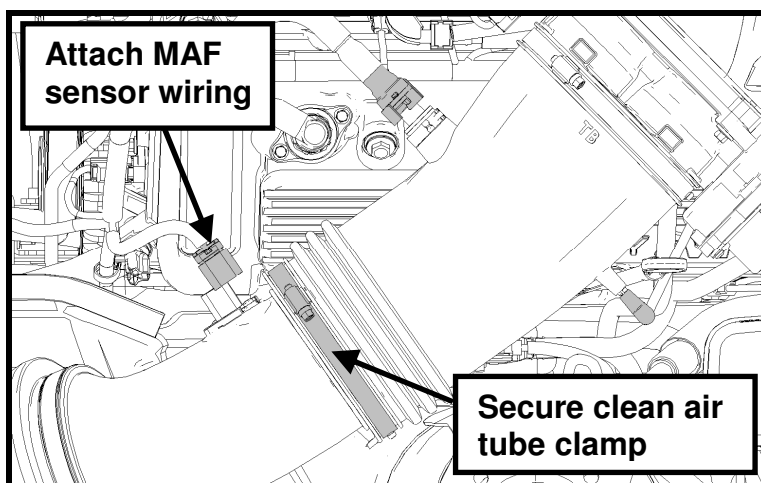


Fig. 12

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STEP 10: Re-install the battery connections. Connect the positive cable to the battery first then the negative cable. Check to insure that the battery is fully charged (12.0V to 14.5V).

STEP 11: **VERY IMPORTANT!!! THE FOLLOWING STEPS CAN ONLY BE COMPLETED ONCE YOU RECEIVE YOUR FORD RACING PROCAL FLASH TOOL. PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION!!!**

ProCal Calibration Flash Tool Instructions

Please follow the directions below in order to make sure that your vehicle's powertrain control module (PCM) is successfully programmed (flashed) with the correct engine and transmission calibration. **Do not drive the vehicle until the programming operation has completed successfully.** Please read these instructions in their entirety prior to beginning the flash procedure. If you have any questions or concerns, please call the Ford Racing Tech Line at (800) 367-3788 if they are not addressed in this document.

This ProCal tool has been designed to deliver a performance calibration to your vehicle and keep a copy of your vehicle's stock calibration should you decide to remove the performance pack for any reason. The tool will be locked to your vehicle until the stock calibration has been restored. Once the original calibration has been restored to your vehicle, the performance calibration and corresponding hardware can be installed on another vehicle of the same year, make, model, PCM part number, tire size and axle ratio.

RECALIBRATION PROCEDURE

Before you begin:

Verify that the VIN of the vehicle matches the VIN written on the ProCal tool. If not, call the Ford Racing Tech Line at (800) 367-3788 and do not attempt to flash the vehicle.

STEP 1: Check to see that the battery is fully charged (at least 12.0 volts) and all accessories (radio, interior fan, headlights, etc.) are switched off. It is **strongly recommended** that the vehicle be connected to a battery charger during the flashing process to avoid potential low-voltage issues.

STEP 2: Locate the on-board diagnostic (OBD-II) diagnostic link connector (DLC) located beneath the dashboard on the driver's side of the vehicle. The exact location will vary with the model and year of the vehicle but will always be on the driver's side.

Flashing your PCM:

STEP 1: Ensure the ignition key is in the OFF position.

STEP 2: Hold the ProCal tool so that the side with the instructions on it is facing up and the LEDs and switch are facing you. Slide the function switch to the LEFT (toward center of unit) to select the performance calibration, or to the RIGHT (toward edge of unit) to select the stock calibration.

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- STEP 3:** Connect tool to vehicle diagnostic connector and wait another 5 seconds. A blinking yellow light should appear which means the tool is ready to begin flashing the vehicle's PCM.
- STEP 4:** Turn key to ON position but do not start the engine. The yellow light should stop blinking and stay on during the PCM flashing process, which can take anywhere between 5 minutes and 40 minutes depending on the type of PCM. Please be patient and do not touch the key or turn on any accessories (such as the radio) while flashing is in process.
- STEP 5:** When the tool is finished flashing the PCM, the solid yellow light will turn off and either a solid green or solid red with blinking yellow will result. If the green light is on, turn the ignition key to the OFF position, remove the tool from the DLC and continue to STEP 6. If the red light is on, an error has occurred and the PCM has not successfully been flashed. Refer to the "Light Status" section below for diagnosis.
- STEP 6:** If you flashed the performance calibration into the PCM, attach the enclosed E.O. Label (R07040044) in a clearly visible location under the hood in close proximity to the newly installed performance equipment.
- STEP 7:** Congratulations! You have now successfully flashed the PCM. Start the engine and enjoy.

Light Status:

Solid GREEN only	Flashing process successfully completed.
Flashing YELLOW only	Ready to begin flashing process and waiting for key to be turned to ON position.
Solid YELLOW only	Flashing in process. Please be patient.
Solid RED, blinking YELLOW	Error encountered. Count yellow blink sequence and refer to the following table for error code. If the error code is not shown below, call the Tech Line at (800) 367-3788 for further instructions.

Error Code Diagnosis:

<u># of yellow blinks</u>	<u>Error Description</u>
1	Vehicle mismatch. Attempting to program second vehicle before first vehicle has been returned to the stock calibration.
2	Switch position error. Try again with the switch in the other position.
3	General software upload error. Call the Tech Line at (800) 367-3788.
4	General software download error. Try again with battery charger connected.
6	Voltage read error. Try again with battery charger connected.
7	The battery voltage is too low. Try again with battery charger connected.
8	The battery voltage is too high. Check that correct battery is installed in vehicle.
9	The ProCal reprogramming voltage is not working properly. Check the vehicle DLC wiring.

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STEP 12: After PCM has been successfully programmed (flashed), check for unusual noises, dash service lights and unusual operation. If problems are detected, immediately stop the engine or vehicle and diagnose and repair the problem.

STEP 13: Affix the E.O. Label (R07040044) on driver side strut tower adjacent to the air filter assembly.

FORD RACING LIMITED WARRANTY

A Limited Warranty is valid only when proof of purchase is registered by the installing Ford dealer by contacting the Ford Racing Tech Line at (800) 367-3788. For warranty details please visit the www.fordracingparts.com website.

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