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2011-2014 3.7L FORD MODULAR V6 COIL-ON-PLUG SYSTEM INSTALLATION INSTRUCTIONS

WARNING:

This installation requires the removal of the upper intake manifold section. If you do not feel comfortable attempting this step, please consult with a qualified professional. Installation requires roughly 1 hour.

INSTALLATION STEPS:

1. Place the car in a position that it will not be required to move for the duration of the installation.
2. Disconnect the negative battery terminal to ensure the vehicle is powerless.



3. Remove the wiring harness that connects to the Mass Airflow Sensor.



4. Remove the hose clamp that holds the rubber bellows from the air box to the throttle body.



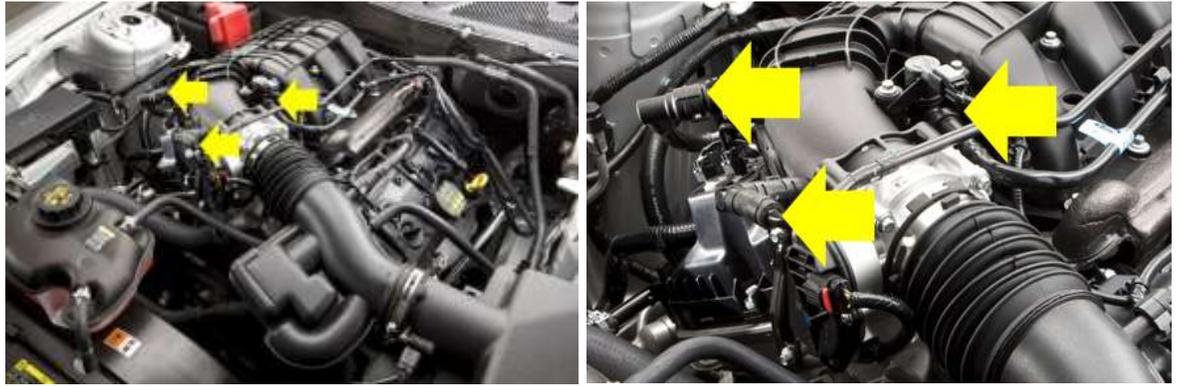
5. Remove the lid that covers the air filter and the hoses that connect to the intake tube. This section of air intake should now be able to be placed to the side.



6. Remove the wiring harness that connections to existing throttle body.



7. Remove all vacuum lines and wiring connections going to the upper plenum (intake manifold)
 - Vacuum line that runs from the passenger side valve cover.
 - Vacuum tube that runs from behind throttle body at manifold towards drive side firewall
 - Harness and vacuum line that connect to the EGR Vac Solenoid on drivers side of manifold directly behind the throttle body.



8. Unbolt the 7 bolts outlined in the photo below but DO NOT remove. Simply unscrew them completely.



9. Remove the 6 factory coils per operations manual. Requires a 7mm socket and removal of each coil harness.



10. Your new Granatelli coils include a specifically designed spacer that allows for the higher capacity coils to work properly. Therefore, it requires one each (per coil) the supplied metal spacer and longer bolt.



11. Insert your new Granatelli coils into place. You will note the gap between the mounting surface of the coil and the valve cover. Insert one of the supplied spacers in this gap and fasten with one of the long supplied bolts. Use the same 7mm socket to retighten to a snug fit. No need to ratchet down on the coils.



12. Due to the taller more powerful design of the Granatelli Coils, we have included a .400" plenum spacer to aid in clearance to the upper plenum reinstallation. Your upper plenum has an O-ring style seal that is reusable. Place the supplied gasket on of the lower manifold, ensuring the patterns match up.



13. Place the .400" plenum spacer on top of the gasket and again ensure the patterns line up.



14. Put the upper plenum back in place with the existing hardware still in the manifold holes.



15. Tighten the 7 bolts until snug to ensure a perfect seal. Place close attention not to over tighten. The included spacer takes up some of the thread depth of the factory bolts but still has plenty of threads to ensure a proper fitment.



16. Reconnect all hoses and wiring harnesses that were removed.

17. Start the engine and listen for vacuum leaks. Engine should exhibit a smoother idle than stock.

18. Enjoy the added performance.

LIMITED WARRANTY:

Granatelli Motor Sports warrants that all products shall be free from defects in materials and/or workmanship for ninety days from the date of purchase (except in-tank and in-line fuel pumps purchased at dealer or wd prices as these items have no warranty and roller rocker arms which have a 12-month limited warranty). The following requirements and exclusions apply: (1) You must be the original purchaser and must complete the warranty registration form (located at www.GranatelliMotorSports.com/warranty.asp) and return the defective product within 10 days after the expiration of the product warranty. Failure to do so voids all warranty, either express or implied set forth herein. (2) You must reside in the United States or Canada and use the product as described in the warranty registration. (3) The product must not have been altered, disassembled, modified, or converted for any other use than intended by Granatelli Motor Sports. (4) The product, or any part thereof, is not used in accordance with the operating parameters specified by Granatelli Motor Sports (5) The product or any part thereof is damaged or rendered unserviceable due to negligence, vandalism, theft, fire, debris, flood, Act of God, or other peril, malfunction of equipment, or by any cause within the Customer's control. (6) The serial number (if applicable) must not have been altered or removed. The extent of Granatelli Motor Sports' liability under this warranty shall be limited to the prompt correction or replacement, at Granatelli Motor Sports' option and at no cost to the customer other than return shipment, of any defective part of the product determined to be necessary by Granatelli Motor Sports. This only applies if written Granatelli Motor Sports received notice of the claimed defect prior to expiration of the warranty period. All warranties of merchantability and fitness for a particular purpose are expressly excluded. The duration of any and all implied warranties is limited to the duration of this express warranty. All incidental and consequential damages including but not limited to loss profits even if it has been advised of the possibility of such damages are hereby excluded. Regardless of the form of the claim, Granatelli Motor Sports liability for any damages to the customer for such product is limited to the guidelines herein. This stated, expressed warranty is in lieu of all liabilities or obligations of Granatelli Motor Sports for damages arising out of or in connection with delivery, use or performance of the product. This warranty cannot be amended or changed by any Granatelli Motor Sports representative, employee, or agent and any promises inconsistent with this warranty are void and unenforceable against Granatelli Motor Sports. Some states do not allow limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights that vary from state to state. Your sole remedy for the above warranties is the repair or replacement of the defective product only, at Granatelli Motor Sports' sole discretion.

RETURN POLICY:

Before you return a product for a warranty claim, contact our service department M-F 8AM-5PM (PST) at 805-486-6644 or techsupport@GranatelliMotorSports.com for an RGA number. No returns are accepted without a pre-approved RGA (return goods authorization). No returns on special orders, electrical items or after 90 days from date of original shipment. All returns must be safety packaged in original packaging (if available) and clearly marked with your RGA number on the top and two sides of the box. Please insure your shipment for full replacement value as lost, stolen or items damaged in shipment are not covered by our limited warranty. We recommend using FedEx (www.FedEx.com) or UPS (www.UPS.com) for shipping. Lost, stolen or damaged items claims must be made by the customer and resolved by the freight company and not Granatelli Motor Sports. All returns may be subject to a restocking fee of up to 25%. The balance will be returned in the form of a company check or may be applied as credit towards another purchase.

PERFORMANCE CONSUMER'S BILL OF RIGHTS:

Legally, a vehicle manufacturer cannot void the warranty on a vehicle due to an aftermarket part unless they can prove that the aftermarket part caused or contributed to the failure in the vehicle (per the Magnuson Moss Warranty Act, www.GranatelliMotorSports.com/magnusonmoss.htm (15 U.S.C. 2302(C))). For best results, consider working with performance-oriented dealerships with a proven history of working with customers. If your vehicle manufacturer fails to honor emission/warranty claims, contact EPA at (202) 260-2080 or www.epa.gov. If federal warranty protection is denied, contact the FTC at (202) 326-3128 or www.ftc.gov. For additional information, check out www.GranatelliMotorSports.com/TechSupport.htm.

Disclaimer:

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