



FORD PERFORMANCE

M-14204-FST CALIBRATION WITH SPARK PLUGS INSTRUCTIONS

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

Please visit www.fordracingparts.com/Focus for the most current instruction information

!!! PLEASE READ ALL OF THE FOLLOWING INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION. AT ANY TIME YOU DO NOT UNDERSTAND THE INSTRUCTIONS, PLEASE CALL THE FORD PERFORMANCE TECHLINE AT 1-800-367-3788 !!!

Attention: Installation should require approximately one hour of labor for a dealership to complete.

KIT INCLUDES:

<u>Description:</u>	<u>Qty:</u>	<u>Tools Needed:</u>
ProCal Tool Voucher**	1	16mm Spark Plug Socket, 6" Extension 8mm Socket
91+ Octane Label	1	Ratchet In-lb Torque Wrench
Spark Plugs	4	Spark Plug Gap Gauge Spark Plug Gapping Tool Flathead Screwdriver

**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.



About your Ford Performance Calibration:

Premium fuel (91 octane or higher, 93 recommended) 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.

The fuel economy of your vehicle can remain the same between the stock and performance calibrations provided the driving conditions and driver demands are the same. Utilization of the additional power available with this calibration will use more fuel than stock.

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



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The shift light activity was significantly changed. It is now calibrated to engage just before the optimum shift point for performance driving with fully depressed (open) accelerator pedal. This keeps the light out of the way for most drivers under most conditions, but may provide an assist on track.

NOTES:

- **BEFORE INSTALLING** the spark plugs, please register this product by following the steps listed on the voucher card included with the kit. **PRODUCT REGISTRATION IS REQUIRED** to receive the ProCal flash tool used to recalibrate the vehicle PCM. Use the voucher included to register for your ProCal online – your specific vehicle information is necessary to send your matching ProCal. Contact the Ford Performance Techline at 1-800-367-3788 for your PCM part number needed to register for your ProCal tool. Please have your Vehicle Identification Number ready when you call.

Install Spark Plugs:

- STEP 1:** Allow the vehicle's engine to cool as much as possible. Park the vehicle in a location away from trees and other sources of debris which could fall into the engine bay during the installation.
- STEP 2:** Validate the spark plugs have been gapped to **0.026”-0.028”** using a spark plug gap gauge. If adjustment is needed, utilize caution and adjust the ground strap tip towards or away from the electrode using a gapping tool, then recheck the gap distance using the spark plug gap gauge. Be careful not to damage the center electrode during the gapping process.

Note: Spark plugs must be handled with care. Accidentally pressing on the electrode or ceramic during gapping, dropping the plugs while handling, or overtightening during installation can all cause irreparable damage which may not be evident at first glance. The M-12405-20T spark plugs are thread size 14mm, and the hex is 16mm.

- STEP 3:** Open the hood of the vehicle and remove the engine cover.

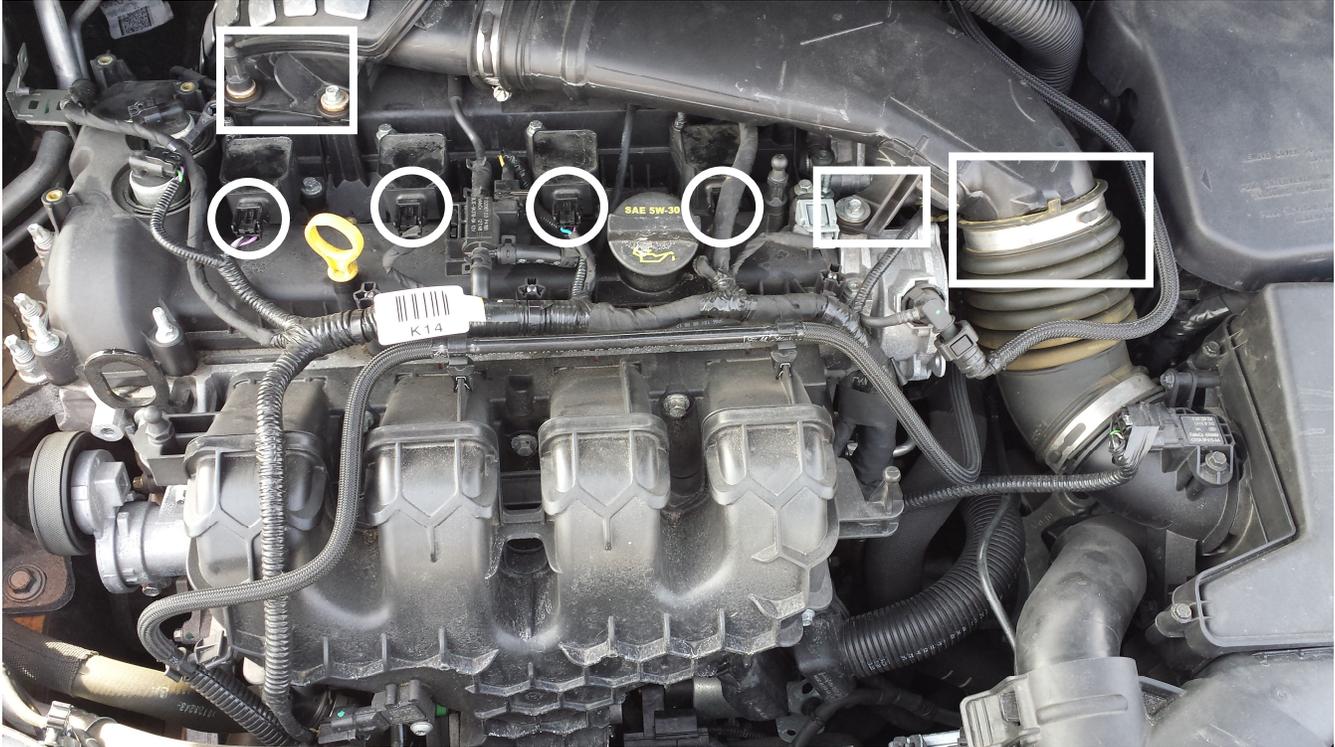
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Address the components enclosed in rectangles above. Use the flathead screwdriver to loosen the clamps on the section of intake covering the plug coil. Remove the bolt attaching the intake to the engine. Remove the section of intake and set aside.

- STEP 4:** Unplug the wiring harness from each spark plug coil circled above.
- STEP 5:** Use the 8mm socket to remove the spark plug coil bolts from each cylinder.
- STEP 6:** Remove the spark plugs using the 16mm socket. Remove the spark plug from the socket and set aside.
- STEP 7:** Replace with the M-12405-20T spark plugs, making sure to remove the protective plastic sleeves first. Use a torque wrench and tighten to 106 In-Lb (12Nm).
- STEP 8:** Replace the spark plug coils, reinstall attaching bolts, and reattach electrical harnesses.
- STEP 9:** Replace the intake section and retighten clamps.
- STEP 10:** Replace the engine cover.

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