



M-9603-MBTKA Mustang BOSS 302 TRACKEY

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Please visit www.performanceparts.ford.com for the most current instruction and warranty 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

INSTALLATION INSTRUCTIONS FOR DEALER TECHNICIAN v2.2

This document describes how to install TrackKey (Ford Performance part number **M-9603-MBTKA**) on a 2012-2013 Boss 302. For the latest version of this document, please visit the "Dealer Links" section at www.trackkey.ford.com before starting the installation procedure. If this is your first TrackKey or Procal 2 installation, please read this document in its entirety before starting the installation. If you have any questions or comments, contact the Ford Performance Techline at **1-800-FORD-788** between 8:30 am and 5 pm Eastern time, Monday through Friday. Before calling, please be prepared to provide the VIN of the vehicle for assistance.

The TrackKey installation procedure consists of **two** separate parts. The first is programming the red medallion ignition key to make it into a TrackKey, and the second is to reflash the PCM with the Ford Performance Procal 2 tool. Once both of these have been completed, the PCM will recognize when the TrackKey is in the ignition and will enable the unique TrackKey functionality. Installation of TrackKey will clear any MyKey's that have been programmed for the vehicle. The TrackKey can, however, be used as an administration key to program the regular key as a MyKey after the TrackKey installation is complete.

CAUTION: After the TrackKey PCM software is installed, no TSB's requiring PCM reflashing should be performed on the vehicle unless specifically instructed by the Ford Performance Techline.

Tools Required:

- Battery charger
- VCM or VCM-II (requires IDS version 81.04 or higher)
- Laptop running Windows XP or Windows 7 with IDS version **78.02A or higher**, Internet Explorer, and **reliable** internet connectivity (we strongly recommend using a wired connection and plugging the laptop into an AC power source)

Vehicle Requirements Before Starting Procedure:

- Must** be a Boss 302 or Boss 302 Laguna Seca with no engine related aftermarket modifications (such as a cold-air kit, headers, etc.) installed
- Must** have two ignition keys (generally one "regular" key with a silver medallion, and one "TrackKey" with a red medallion)

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



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- Must** have customer's mailing address and phone number
- Must** have premium (91 or higher octane) fuel in the fuel tank

If any of the above requirements is not met, do not continue the installation procedure, and advise the customer that the issue or issues must be rectified before TrackKey installation can commence.

Part 1)

Procedure for a vehicle that has never had TrackKey installed before:

- 1) Write down the **rear** tire size (ie: 285/35-19) here _____
- 2) **Connect a battery charger to the battery and set to lowest current setting.**
- 3) Connect VCM to vehicle DLC and to laptop with internet access and IDS version 78.02A or higher.
- 4) **Turn off all vehicle accessories, including HVAC, radio, and lights. Close trunk and both doors. Remain in vehicle until procedure is complete. This is critical to avoid accidentally bumping the DLC connector and severing the VCM connection which can result in having to send the PCM back to Ford Performance at your expense.**
- 5) Using Internet Explorer, go to **www.proservicetech.com**, or use FMC dealer to get to PTS, and click on the "Vehicle ID" tab.
- 6) Insert TrackKey (red medallion) in ignition and turn to ON position.
- 7) Once the VCM has successfully made a connection to the PCM, click the green box labeled "Read VIN and DTCs", as shown below:
- 8) Write down the odometer mileage here _____
- 9) Write down any DTC's displayed. **Resolve root cause of all DTC's before continuing to the next step.**
- 10) Click the box labeled "GO", as shown below:
- 11) Click the "ToolBox" tab, as shown below:
- 12) Under "IDS Tools" on the left side of the screen, click "Body" then "Service Functions" then



- 13) Write down the odometer mileage here _____
- 14) Write down any DTC's displayed. **Resolve root cause of all DTC's before continuing to the next step.**

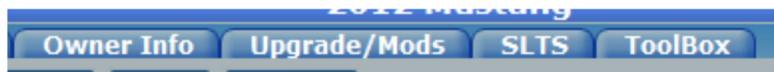
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15) Click the box labeled "GO", as shown below:



16) Click the "ToolBox" tab, as shown below:



17) Under "IDS Tools" on the left side of the screen, click "Body" then "Service Functions" then "Track Key Configuration", as shown below:





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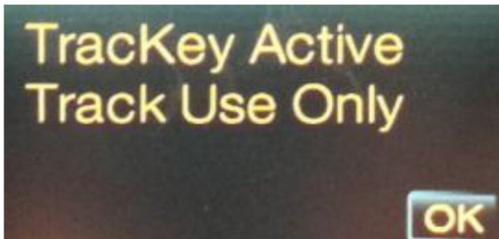
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- 18) An IDS window will launch and display "use track key to turn on ignition". Since the key should already be in the ON position, click the checkmark in the lower right corner of the screen.
- 19) Click "Enable track key" once, then click checkmark.
- 20) Turn ignition key to OFF position, then back to ON position.
- 21) Message center on instrument cluster should now display "TRACKKEY ACTIVE TRACK USE ONLY" as shown below. If so, click the checkmark. If not, click the return arrow and go back to step 13. Consult "Troubleshooting" section if the message isn't displayed after 2 attempts.



2012



2013

- 21) At this point, the programming of the key is complete, but the PCM needs to be reflashed before TrackKey functionality will be enabled.

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Part 2

At this point-follow the instructions included with the Procal tool to flash the PCM. Then revert back to this document.

1) Start the engine and wait at least 30 seconds. On 2012 vehicles, hit the "OFF" button on the left side of the steering wheel, followed by the "RESUME" button within 2 seconds. On 2013 vehicles, hit the "RSM" button twice within 1 second. The green speed control indicator on the cluster should blink continuously twice per second. Press "RESUME" or "RSM" again and green light should go out. If this does not happen, consult the Troubleshooting section.



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- 2) Shut off engine, remove TrackKey and start engine with regular (silver medallion) key. Verify message center does **NOT** display "TRACKEY ACTIVE TRACK USE ONLY".
- 3) Turn off engine and disconnect battery charger.
- 4) Advise customer that a self-adhesive EO label will be shipped to their address. Once it arrives they are to install it under-hood on the driver's side shock tower. Failure to display this label in a prominent place can result in state vehicle emissions test issues, depending on the state of residence of the customer. Also remind customer that use of the TrackKey requires premium (91 or higher octane) fuel.

Troubleshooting:

"Track Key configuration" does not appear in Service Functions Menu:

- Verify vehicle is a Boss 302 or Boss 302 Laguna Seca
- Verify IDS version **78.02A or higher** is installed on the computer connected to the VCM
- If issue is still unresolved, call Ford Performance Techline at 1-800-FORD-788, with vehicle VIN and customer voucher ID

"TRACKEY ACTIVE TRACK USE ONLY" does not appear after programming TrackKey:

- Close trunk and both doors, switch ignition key off then back on
- If issue is still unresolved, call Ford Performance Techline at 1-800-FORD-788, with vehicle VIN and customer voucher ID

For resolution of all other issues, call the Ford Performance Techline at 1-800-FORD-788, with vehicle VIN and customer voucher ID.

Frequently Asked Questions:

Can more than one TrackKey be programmed for a vehicle?

- No. Only one TrackKey can exist for a given vehicle at a time.

What if a customer loses the TrackKey after programming?

- A new blank TrackKey can be ordered from FCSD (SKU 164-R8021) at the customer's expense. It will then need to be cut, have PATS re-synched, and programmed as a TrackKey by performing steps 2 through 21, also at the customer's expense. The PCM does not need to be reflashed again, and the customer does not need to purchase another M-9603-MBTKA kit from Ford Performance. If the old TrackKey is found, it will no longer work as a valid TrackKey after the new key is programmed.

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If I have a custom calibration in the PCM already, will TrackKey erase it?

Yes. In addition, there may be warranty concerns if the custom calibration has caused engine damage that later results in a failure.

Why can I not perform TSB's that require PCM recalibration?

TrackKey is a Ford Performance Performance Parts product and as such is not distributed through the normal IDS production calibration download system. If a TSB requiring a PCM recalibration is performed, the TrackKey software will be overwritten and the unique functionality will be lost. The "TRACKEY ACTIVE TRACK USE ONLY" message would still appear on the message center, but no but no action would be taken by the PCM because the unique TrackKey software has been overwritten by the reflash for the TSB. If there is any doubt whether or not a certain TSB should be performed, call the Ford Performance Techline at 1-800-FORD-788, with vehicle VIN, customer voucher ID, and TSB number.

How do I tell if the installation has been successful?

If the TrackKey itself has been successfully programmed, the message "TRACKEY ACTIVE TRACK USE ONLY" will appear on the message center when the ignition is turned to the ON position with the TrackKey. If **both** the PCM **and** the TrackKey have been successfully programmed, the green speed control light on the dash will blink continuously twice per second when the engine is running and Pit Lane Speed Control has been activated. To activate Pit Lane Speed control on a 2012 vehicle, press the "OFF" button followed by the "RESUME" button within 2 seconds. To activate Pit Lane Speed Control on a 2013 vehicle, make sure the speed control indicator light is off (not orange or green) then press the "RSM" button twice within 1 second. To deactivate Pit Lane Speed Control, press the "RESUME" or "RSM" button once.

Note that if the PCM is not programmed correctly, the "TRACKEY ACTIVE TRACK USE ONLY" message can still be displayed on the message cluster but no action will be taken by the PCM so none of the TrackKey functionality will work.

My cluster says "TRACKEY IDLE ENABLED" but some cars say "TRACKEY ENGINE ENABLED". What's the difference?

Depending on the build date of the vehicle, the instrument cluster may display one of those two messages once lopey idle mode is enabled. The TrackKey software and calibration is identical on all cars regardless of which of the two messages is displayed.

What if the " TRACKEY IDLE / ENGINE ENABLED" message is displayed but the idle is not very lopey?

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□ First, verify that the engine oil level is correct. Make sure to use only 5W50 oil, as cam control can vary dependent on oil viscosity. Secondly, turn off all accessories such as air conditioning, rear window defrost, etc. If the idle still isn't lopey, the PCM may need to relearn the zero (or "home") position of the cams. To facilitate this learning process, shut the engine off, restart the engine using the black (non-Track) key and let the engine idle for 5 minutes with the vehicle stationary. Do not touch the accelerator pedal during this time. Once the zero position is learned, it should not need to be relearned unless the battery is disconnected or the PCM is reflashed.

What if the " TRACKEY IDLE / ENGINE ENABLED" message is never displayed but all other TrackKey features work?

□ For lopey idle to be enabled, three conditions must first be satisfied. The first condition is that 130 seconds must have elapsed since the engine coolant temperature reached 170 °F (77 °C) while the engine is running. The second condition is that the engine must not currently be idling (Note that it is sufficient just to rev it up in neutral or drive away once the other conditions have been met and lopey idle mode will be enabled). The third condition is that there must be no detected failures of any PCM sensors. Specifically, this means lopey idle will be disabled if any of the following is true:

- Misfire detected
- Air charge temperature sensor failure detected
- Cylinder head temperature sensor failure detected
- Ignition coil failure detected
- Crank sensor failure detected
- Throttle body control failure detected
- Cam position sensor failure detected
- Vehicle speed sensor failure detected
- Accelerator pedal sensor failure detected
- Mass Air Flow sensor failure detected

If lopey idle is not being enabled because the PCM is detecting misfires, it may be necessary to perform the neutral profile learn procedure. If the neutral profile learn procedure does not resolve the misfire codes, then the root cause of the misfires must be determined and repaired before lopey idle will be enabled.

I hear slight "pinging" on engine acceleration from low speed. Should I be alarmed?

□ TrackKey alters the ignition timing and knock sensor calibrations taking full advantage of premium fuel to deliver the maximum torque and throttle response available from the engine. Some slight "pinging" on acceleration from low engine speed may be audible initially but should rapidly subside.

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**** CAUTION: Do not reflash the PCM back to a production calibration unless specifically directed to do so by the Ford Performance Techline (not FCSD). Once the PCM has been flashed back to a production calibration you will not be able to re-install TracKey without a new voucher number.**

NOTE: The TracKey software and calibration are copyrighted works of Ford Motor Company and are protected under US copyright law. They may not be uploaded or copied for any purpose including, but not limited to, calibration modification and/or distribution.

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