BOOSTMAX™

Installation Instructions • EcoBoost 2.0L & 1.6L • Plug & Play

Thank you for your purchase.

Please read the complete installation instructions or view the video instructions on YouTube before attempting to install this product.

If not installed properly, BoostMAX will not function and may be damaged.

BoostMAX will increase the power output of your Ecoboost vehicle. BoostMAX has been designed to be mounted with plastic zip ties near the OEM ECU. The wiring harness plugs into two sensors on the engine and then runs into the vehicle cabin through a drivers side firewall hole and connects to the pedal sensor.

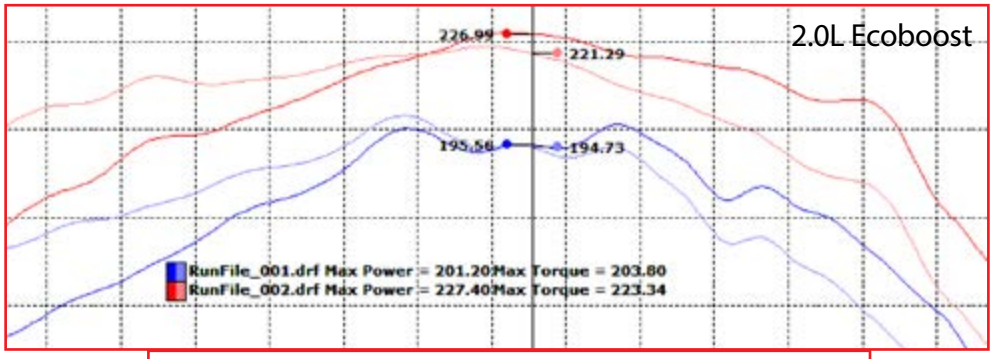
Reasons to choose BoostMAX!	BoostMAX 3.5L	BoostMAX 2.7L	BoostMAX 2.3L	BoostMAX 2.0L	BoostMAX 1.6L	BoostMAX 1.6L Fiesta ST	BoostMAX 1.5L
Quick HP • 80rwhp gain on 3.5L engine	X	X	X	X	X	X	X
Simple to Install • Plug & Play	X	X	X	X	X	X	X
Adjust Boost Increase "on-the-fly" via Remote Adjustment Knob	X	X	X	X	X	X	X
User Adjustable Boost Increase (0-5psi)	X	X	X	X	X	X	X
87 Octane Plug-In Module	X	X	X	X	X	X	X
Works with 87, 89, 91 & 93 Octane	X	X	X	X	X	X	X
JMS Exclusive • Digital Technology	X	X	X	X	X	X	X
Heavy-Duty Sealed Unit	X	X	X	X	X	X	X
Stack with PedalMAX for more power! *Combine BoostMAX with JMS Pedal-MAX for additional low-end and part throttle performance.*	X	X	X	X	X	X	X
Stack with a Custom JMS ECU Tune! *BoostMAX has been designed to be stacked with a Custom JMS ECU Tune for MORE performance!*	X	X	X	X	X	X	X
Stack with PedalMAX & Custom Tune! *Stack BoostMAX with PedalMAX and a Custom ECU Tune for MAX performance*	X	X	X	X	X	X	X

The concept behind BoostMAX:

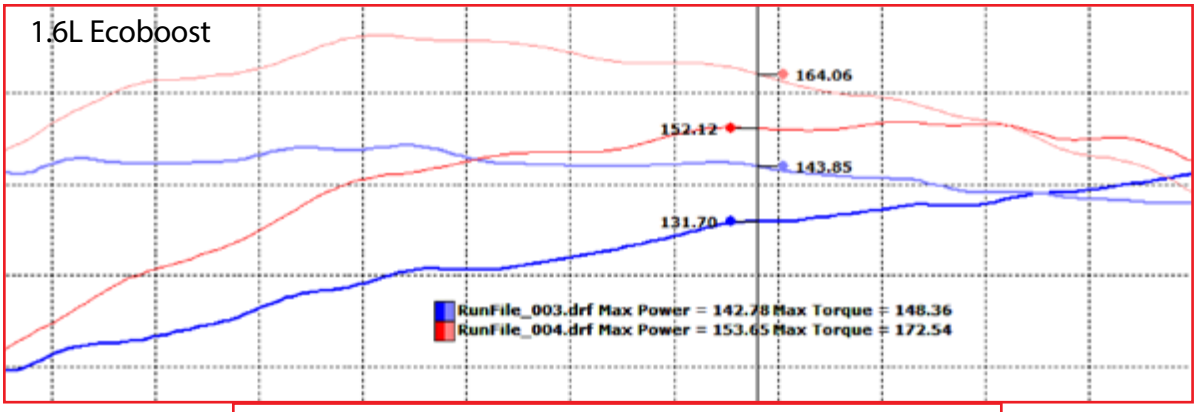
- Add additional horsepower without reprogramming the ECU.
  - BoostMAX connects to the MAP, TIP and Pedal Position sensors via a plug & play harness.
  - Remote boost knob allows the user to add up to 5psi of additional boost (on the fly).
  - 2.0L Ecoboost customers have reported gaining +26fwhp with the stock vehicle and BoostMAX (87 Octane).
  - 1.6L Ecoboost customers have reported gaining +11fwhp with the stock vehicle and BoostMAX (87 Oct).

- Add additional boost "on the fly" and when you want it.
  - Use the remote boost knob to "dial-in" additional boost on the fly.
  - Replace the remote boost knob with the Red Chip: 87 octane boost curve.
  - Or remove the remote knob and red chip and enjoy the optimized 93 octane boost curve and more power!

- Simple to install, *Plug and Play* design that installs in just minutes.



2014 Edge 2.0L Ecoboost - DynoJet Test on 87 Octane
Stock = Blue Line -> 201fwhp/203 ft-lbs
BoostMAX = Red Line -> 227fwhp/223 ft-lbs
Peak gains of: +26fwhp and +20 ft-lbs
Note: Red Chip (87 Octane Plug installed)



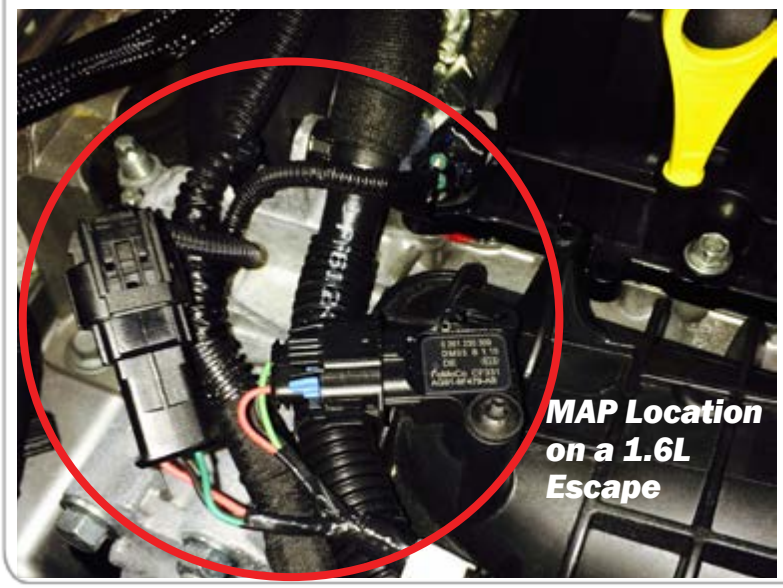
2014 Escape 1.6L Ecoboost - DynoJet Test on 87 Octane
Stock = Blue Line - 142fwhp/148 ft-lbs
BoostMAX = Red Line 153fwhp/172 ft-lbs
Peak gains of: +11fwhp and +24 ft-lbs
Note: Red Chip (87 Octane Plug installed)

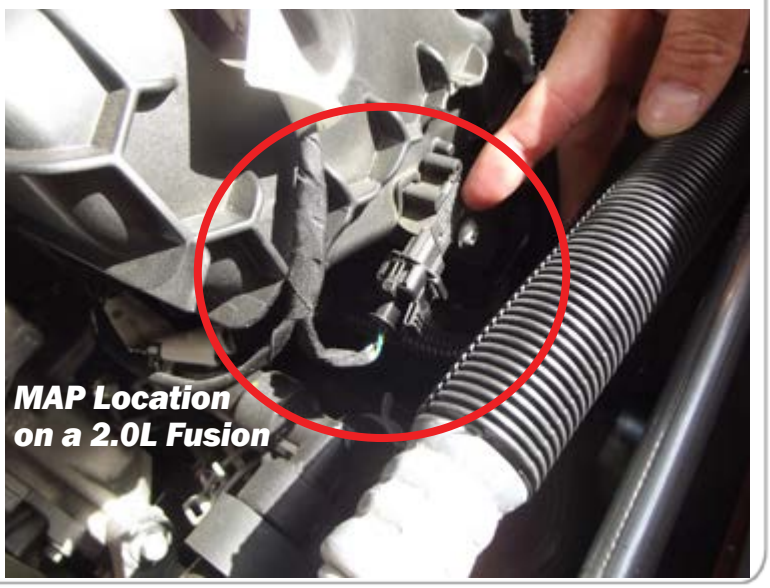
Step 1

- Ignition key off, remove key from ignition.
- Open the vehicle's hood.
- Remove the plastic engine cover and set aside
- Note: On some models, it may be necessary to remove the engine oil fill cap before you can remove the plastic engine cover.
- Replace the engine oil fill cap

Step 2

- Locate the MAP Sensor (Located on top of the black plastic intake manifold)
- Disconnect the OE MAP Sensor connector from the MAP sensor.
- Connect the BoostMAX Wire Harness Labeled "MAP Sensor" in-between the MAP Sensor and the OE Connector.
- Use zip-ties to secure the MAP sensor wiring.
- Pictures show the Intake - MAP location on: 2.0L & 1.6L





Step 3

• Locate the TIP Sensor on your vehicle. It could be in one of three possible locations.

1) Drivers Side, Front Corner Top: On the discharge side of the Intercooler (picture 1)

2) Passenger Side, Front Corner Bottom: Remove the lower engine shield and it is located on the intercooler near the boost discharge hose. (Picture 2/3)

3) Drivers Side, Front Corner Bottom: Remove the lower engine shield and it is located on the intercooler near the boost discharge hose. (Picture 2/4)

2.0L Edge - Drivers Side, Front Corner Top (pic 1)

2.0L Fusion - Passenger Side, Front Corner Bottom, remove engine shield (Picture 2 & 3)

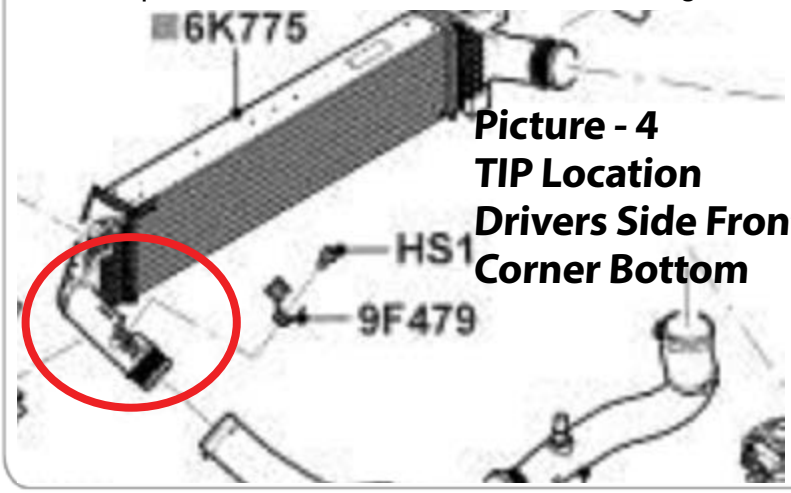
1.6L Escape - Passenger Side, Front Corner Bottom, remove engine shield (Picture 2 & 3)

All other Ecoboost 2.0L/1.6L - Please locate.

• Disconnect the OE TIP Sensor connector from the TIP sensor.

• Connect the BoostMAX Wire Harness Labeled "TIP Sensor" in-between the TIP Sensor and the OE Connector.

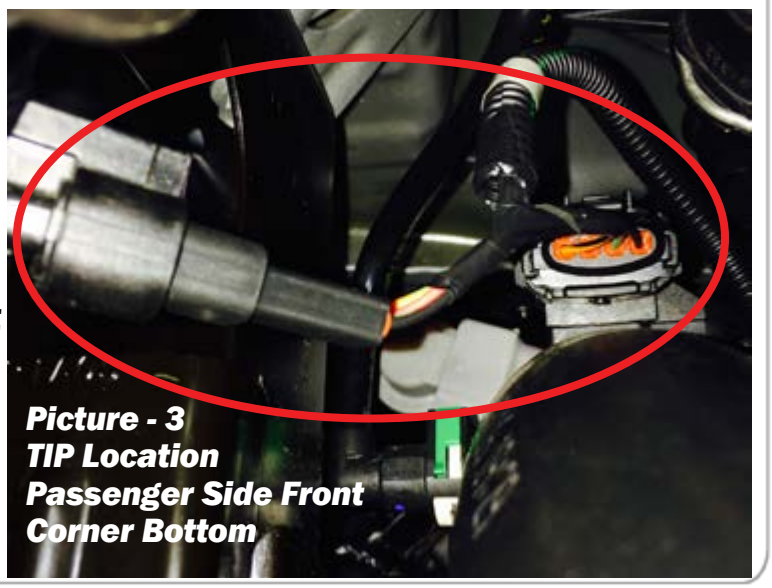
• Use zip-ties to secure the TIP sensor wiring.



Picture - 4
TIP Location
Drivers Side Front
Corner Bottom

Picture - 1
TIP Location
Drivers Side Top

Picture - 2
Remove lower engine shield



Picture - 3
TIP Location
Passenger Side Front
Corner Bottom

Step 4

• Connect the BoostMAX Module to the DB-25 connector, secure the screws with the screwdriver.

• Route the BoostMAX wiring harness alongside the factory ECU (located near the air inlet and battery).

• Use zip-ties to secure the BoostMAX Module near the factory ECU.

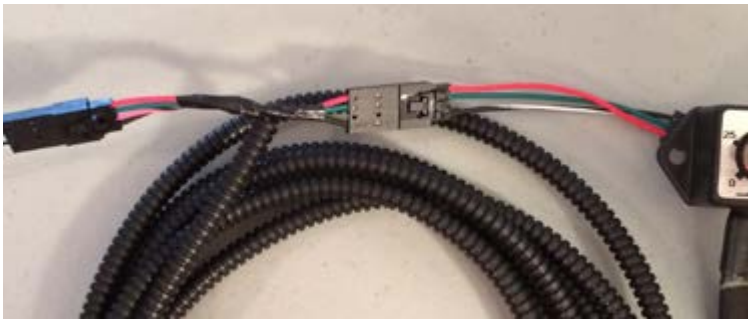
• When routing the wiring, be sure to stay away from high heat sources (exhaust).

Step 5

• Connect the Pedal Position Harness to the main BoostMAX Harness (via flat four pin connector, left side connector in the picture)

• Choose between connecting the Pedal Position Harness to the Remote Boost Knob OR to the “87 Octane Red Chip”. (Right side connector in picture)

Note: In the picture the Pedal Position harness is in the center, the main harness plugs into the Pedal Harness and then the Remote Knob Plugs into the Pedal harness.



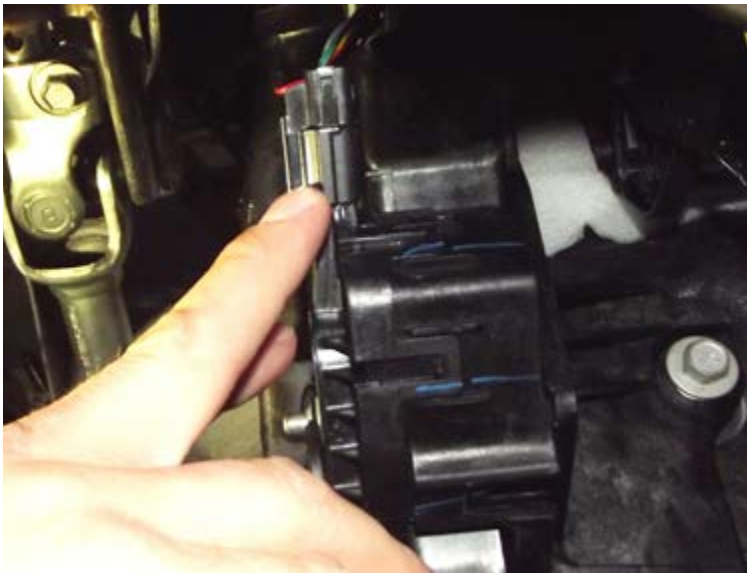
Step 6

• Route the Pedal Position Harness and Remote Boost Knob across the firewall to the drivers side of the vehicle.

• Remove the large firewall plug on the drivers side of the firewall from the inside of the vehicle. Route the Pedal Position Harness and Remote Boost Knob through the firewall. (Note: The firewall plug might be covered by insulation, it may be round or square)

• Note: It may help to attach the wire harness with tape to a stiff wire (coat hanger) in order to fish it through the firewall opening (use two people).
• Use zip-ties to secure the wiring.

Step 7



• Locate the Accelerator Pedal Position Sensor (Located on top of the Accelerator Pedal bracket)

• Disconnect the OE Pedal Position Sensor connector from the Pedal Position sensor (pull the red tab out).

• Connect the BoostMAX Wire Harness Labeled “Pedal Sensor” in-between the Pedal Position Sensor and the OE Connector.

• Use zip-ties to secure the Pedal Position Sensor wiring.

Step 8

• Route the Remote Boost Knob up and near the center console. We recommend routing the cable along side the center console (push the cable up behind it) so you can adjust the knob “on the fly”.

• Use zip-ties to secure the Remote Boost Knob wiring.

• Adjust the BoostKnob to the desired performance level.

• Recommended knob settings: 87 octane = 50%, 91 octane = 90%, 93 octane = 100%.

Step 9

• Start and test the vehicle, it should function like normal with additional WOT power. If the Ignition Key is “ON” the Green LED on the BoostMAX will illuminate ON.

• If the vehicle has a wrench light and no throttle: it is due to disconnecting the Pedal Position Sensor.

• Turn the vehicle off, remove the key, wait 30 seconds and restart the vehicle (the wrench light will automatically clear itself on restart).

Enjoy the extra plug & play BoostMAX power.

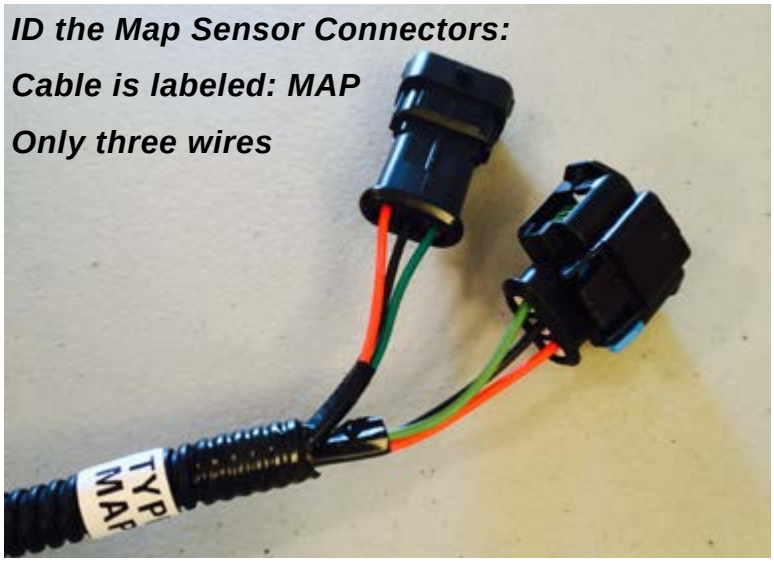
BoostMAX plugs into the Grey 25 pin connector

BoostMAX main wire harness

ID the Map Sensor Connectors:

Cable is labeled: MAP

Only three wires

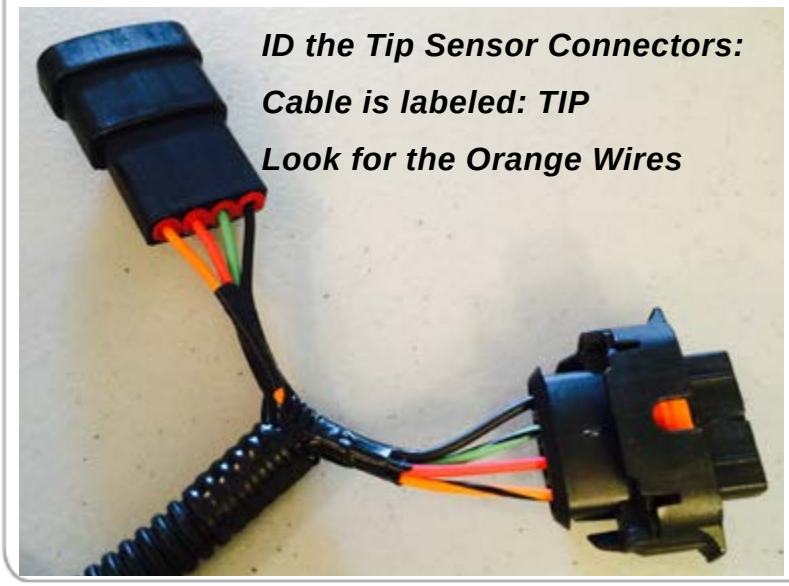


Remote Boost Adjustment Knob

ID the Tip Sensor Connectors:

Cable is labeled: TIP

Look for the Orange Wires



Pedal Position Harness

Recommended Spark Plug and Spark Plug Gap for BoostMAX

This information applies to all 2011-2015 Ford F150 3.5L EcoBoost equipped trucks and 2010-2015 Ford Taurus SHO 3.5L EcoBoost equipped cars. To eliminate the potential for ignition misfires commonly known as “spark blowout” at high RPM levels when running a JMS BoostMAX we recommend replacing the sparkplugs and setting the plug gaps as listed below in the chart.

EcoBoost 3.5L

Year	Model	Plug OEM Part Number	Recommend GAP
2011-2015	F150 EcoBoost 3.5L	SP-534	0.030 in
2010-2015	Taurus EcoBoost 3.5L	SP-534	0.030 in

EcoBoost 2.0L

This information applies to all 2013-2014+ Ford Focus, Fusion, Taurus, Edge, Escape 2.0L EcoBoost equipped vehicles. To eliminate the potential for ignition misfires commonly known as “spark blowout” at high RPM levels when running a JMS BoostMAX we recommend replacing the sparkplugs and setting the plug gaps as listed below in the chart.

Year	Model	Plug OEM Part Number	Recommend GAP
2013-2015	ALL - EcoBoost 2.0L	M-12405-20T (Ford Racing)	0.028 in
2013-2015	ALL - EcoBoost 2.0L	ITV22 (Denso 5340) (Denso Iridium)	0.028 in

Note to Focus ST 2.0L Ecoboost owners

If you stay under high boost for longer than 15 seconds, your vehicle may go into overboost mode and the power/boost will be automatically pulled back by the factory ECU. This is a feature of your control system. To solve this issue, you will need a custom JMS ECU tune via an X4 stacked with your BoostMAX unit. The two units together provide the ultimate in performance for the Focus ST.

Different BoostMAX versions are available. Each are specific to the engine family. The product guide below details the different versions and applications.

Product Guide • BoostMAX • Plug & Play

	Ecoboost 1.5L	Ecoboost 1.6L	Ecoboost 2.0L	Ecoboost Fiesta ST	Ecoboost 2.3L	Ecoboost 2.7L	EcoBoost 3.5L
BX-6000-15	X						
BX-6000-16-FS		X		X			
BX-6000-20-16		X	X				
BX-6000-23					X		
BX-6000-27						X	
BX-6000-35							X

What is PedalMAX?

- *Increases "off idle" throttle response*
- *Improve vehicle acceleration & torque*
- *Designed to be stacked with BoostMAX and a JMS Custom Tune File*
- *Simple to Install product that supports all Ford Gas & Diesel vehicles*
- *Does not void vehicle warranty*
- *Optional Single or Dual Remote Pedal Knob*
- *Sealed Enclosure*
- *Compact, Rugged design*
- *Plug & Play design*

Quick Reference Guide • PedalMAX • Plug & Play

	2005-10 Ford	2011 - 15 Ford	2015 Ford	2008 - 15 Most GM	2014 - 15 GM LSA	2011 - 14 Chrysler	Remote Knob Option
PX-5000-1114F		X	X		X		X
PX-5000-0510F	X						X
PX-5000-1415GM					X		X
PX-5000-1015GM				X			X
PX-5000-1114DCX						X	

About JMS Chip & Performance

For more than 20 years, JMS Chip & Performance has been an industry leader in late model domestic and import vehicle tuning. JMS brand electronics components are some of the most technologically advanced in the automotive industry and feature innovative high quality engineering, materials and workmanship. The JMS technical center in Lucedale, MS is one of North America's premier automotive and motorcycle tuning, manufacturing, and turn key automobile development facilities, producing numerous custom high performance vehicles each year. JMS is also a pioneer in domestic vehicle calibrations and highly regarded as a foremost expert in Ford, GM and Chrysler powertrain and drivetrain systems.

JMS Technical Center • Lucedale, MS

A state of the art facility that integrates custom and specialty vehicle manufacturing, race car production, electronics development and manufacturing, custom tuning and vehicle calibrations engineering, prototype development, and aftermarket component sales and distribution.

Light Vehicle Assembly

JMS produces countless custom or specialty vehicles ranging from contemporary late model domestic performance cars to full blown turn key race cars, each year. Our teams of professionals are experts in supercharging, turbocharging, engine assembly, chassis production, suspension upgrades, and specialty equipment integration.

Custom ECU Calibration Engineering

Since 1993, JMS has been a pioneer and industry-leader in Ford vehicle calibrations and instrumental in helping to develop the modern custom tuning aftermarket. Our tech center's tuning facility features two chassis dynamometers specifically for car and truck calibrations and engineering, and one motorcycle dyno to service the growing powersports market.

JMS Policies

How to order

JMS products can also be purchased through our network of warehouse distributors, dealers, jobbers, and installers. To locate a wholesaler or installer in your area, please contact us or use the dealer locator on our website.

Terms of Sale

JMS product orders are subject to our wholesale trade terms and conditions, which are located in the applicable price guide.

Shipping and Handling

JMS products are shipped F.O.B. Lucedale, MS via UPS or common freight carrier, and are subject to applicable shipping terms and charges. JMS does maintain a freight policy for warehouse distribution based on a minimum order qualification. Overseas order shipping via a common freight forwarding company or broker are the responsibility of the customer.

Pricing

JMS maintains a *minimum advertised pricing policy* to protect product value, and maintain consistent and fair distribution or retail pricing points. JMS places high value on its brand and product integrity.

Non-JMS Brand Parts

Aftermarket parts purchased from JMS are covered under the manufacturer's warranty, and are not covered under the JMS manufactured products warranty.

Off-Road Notice and Terms & Conditions

JMS products are designed for Off-Road or Racing use only. JMS terms and conditions including: Pricing, specifications, warranty, and availability are subject to change without notice. Compliance with all federal, government, provincial, state or local laws are the responsibility of the customer or end-user. All claims of product performance are based on controlled testing conditions and real-time data, and results may vary based on your application or use. JMS shall not be liable for any fines or violations resulting from product use or installation.

Service or Repair:

The Return Authorization Number should be clearly written on the outside of the box, and in a letter that is included in the box. The letter should also list your contact phone number and a clear explanation of the exact problem.

JMS Warranty & Contact information

JMS warrants to the original purchaser the following:

Your JMS Product will be free from defects in materials and workmanship for a period of twelve months from the original purchase date. The warranty only covers the product itself and not the cost of removal and re-installation of the product. JMS may extend the limited warranty on a case by case basis, based on the circumstances of the warranty claim. JMS products are designed exclusively for use in racing applications. JMS products that are not installed according to the supplied instructions, may not be covered by warranty.

Specific conditions that will VOID the product warranty:

If the product case has been opened or the product has been modified or repaired.
If the product was not installed or used correctly.
If the product has been tampered with by: negligence, misuse or accident.
If the product is returned without explanation of the problem or Return Authorization.

All warranty returns should be returned freight pre-paid and should include inside of the box: Proof of Purchase and a Letter that contains both the Return Authorization Number and a Clear Explanation of the EXACT problem. The Return Authorization Number should also be clearly written on the outside of the box.

JMS Chip & Performance LLC is not liable for any and all consequential damages arising from the breach of any implied or written warranty in regards to the sale of this product, in excess of the purchase price.