


### Thank you for your purchase.

Please read and understand the complete installation instructions before attempting to install this simple wire-in product.

 If not installed properly, LaunchMAX will not function and may be damaged. Improper installation will void the product warranty. LaunchMAX is for Off-Road Racing Use ONLY!

This version of LaunchMAX is a “DO-IT-YOURSELF” wire-in product. The LaunchMAX black module has been designed to be mounted with plastic zip ties behind the dash inside the vehicle cabin. The “DO-IT-YOURSELF” LaunchMAX wiring harness must be spliced into the ECU and wired into +12v KEY-ON Power. To activate you must also wire up a momentary push-button switch.



### Reasons to choose LaunchMAX!

	2011-14 Mustang 6r80	2015+ Mustang 6r80	Can be wired into any 6r80	Digital Technology	No Parts to Fail (Digital)	Heavy-Duty Sealed Unit	Universal Wire-In Harness
JMS Digital Technology	X	X	X	X	X	X	X
No Parts To Fail (Digital Product)	X	X	X	X	X	X	X
Heavy-Duty Sealed Unit	X	X	X	X	X	X	X
Universal 7 Foot Long Wire-In Harness	X	X	X	X	X	X	X
Can be wired into any 6r80 Trans	X	X	X	X	X	X	X
Reliable Digital Trans-Brake Module	X	X	X	X	X	X	X
Fastest Trans-Brake Release Time	X	X	X	X	X	X	X

### The concept behind LaunchMAX:

We designed the most reliable and robust Trans-Brake product and then wrapped it in a waterproof, vibration resistant case. LaunchMAX is the worlds first **digital** trans-brake product available for the 6r80 Ford Transmission.

DIY Installation is simple: cut two factory wires, connect the factory wires to LaunchMAX, connect +12v Key-On Power and ground. Finally, connect a momentary push-button switch to ground. The push-button activates the trans-brake.

- Reliable Digital Trans-Brake Unit, Waterproof with the Fastest Release Time
  - ALL Digital Product -> NO Moving Internal Parts to fail, NO Relays to Fail
  - LaunchMAX DIY, is a spline-in “Do-It-Yourself” Digital Trans-Brake unit.
  - Fastest Trans-Brake Release Time (No moving parts).
  - Designed to work with all 6r80 Ford Transmissions (these instructions are specific to 2011-14 & 2015 Mustang).
  - This kit is not designed to raise the line pressure in the transmission.
  - Contact us for a custom tune if looking for improved transmission performance.
  - Please visit [forum.jmschip.com](http://forum.jmschip.com) for additional wiring information (other vehicles).
  - This kit **does not include** a push-button activation momentary switch (normally open).
  - Can be activated via two different methods (ground activation or +12v)
    - Wire using ground activation if your two-step, nitrous or boost controller requires a ground to activate.
    - Wire using +12v activation if your two-step, nitrous or boost controller requires +12v to activate.

## Installation Instructions • 2011-2016 Mustang 6R80 DIY Wire-In

### STEP 1 - LOCATE VEHICLE ECU, DISCONNECT BATTERY

- Ignition key off, remove key from ignition.
- Open the vehicle's hood. Disconnect the Battery.
- Locate the vehicle ECU (under the hood, near the front passenger side of the vehicle).
- Disconnect the TOP ECU Connector.

*Note: Move the grey lever to release the connector from the ECU.  
2015 Mustang connector has 95 pins  
2011-2014 Mustang connector has 50 pins*

- Unwrap six inches of black tape that protects the wires entering the TOP ECU Connector.

### STEP 2 - LOCATE AND CUT TWO ECU WIRES

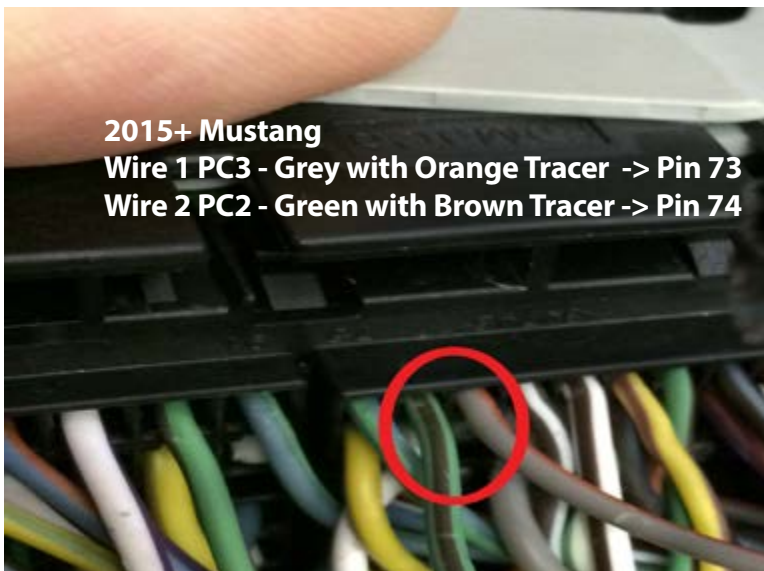
- Locate the two Transmission Wires to CUT. Unwrap the tape 6 inches back from the connector. Verify and Cut each wire 3 inches from connector.

- 2015+ Mustang 6R80 Auto 5.0L & 3.7L (95 Pin Top Connector) \*2.3L is different see step 3  
Locate and cut two wires 3" from the top connector  
**Wire 1** PC3 - Grey with Orange Tracer -> **Pin 73**  
**Wire 2** PC2 - Green with Brown Tracer -> **Pin 74**

- 2011 - 2014 Mustang 6R80 (50 Pin Top Connector)  
Locate and cut two wires 3" from the top connector  
**Wire 1** PC3 - Grey with Orange Tracer -> **Pin 45**  
**Wire 2** PC2 - Green with Brown Tracer -> **Pin 44**



2011 - 2014 Mustang  
Wire 1 PC3 - Grey with Orange Tracer -> Pin 45



2015+ Mustang  
Wire 1 PC3 - Grey with Orange Tracer -> Pin 73  
Wire 2 PC2 - Green with Brown Tracer -> Pin 74



2011 - 2014 Mustang  
Wire 2 PC2 - Green with Brown Tracer-> Pin 44

### STEP 3 - SOLDER ECU WIRES TO LAUNCHMAX HARNESS

2015-2016 Mustang 5.0L and 3.7L

White Wire (grey cable) -> solder to the wire from ECU Connector: Pin 73 PC3 Grey with Orange Tracer

Brown Wire (grey cable) -> solder to the wire from ECU Connector: Pin 74 PC2 Green with Brown Tracer

Green Wire (grey cable) -> solder to the wire harness: Green with Brown Tracer

Yellow Wire (grey cable) -> solder to the wire harness: Grey with Orange Tracer

2015-2016 Mustang 2.3L EcoBoost Engine

White Wire (grey cable) -> solder to the wire from ECU Connector: Pin 73 PC3 Grey with Orange Tracer

Brown Wire (grey cable) -> solder to the wire from ECU Connector: Pin 45 PC2 Green

Green Wire (grey cable) -> solder to the wire harness: Green

Yellow Wire (grey cable) -> solder to the wire harness: Grey with Orange Tracer

2011 - 2014 Mustang

White Wire (grey cable) -> solder to the wire from ECU Connector: Pin 45 PC3 Grey with Orange Tracer

Brown Wire (grey cable) -> solder to the wire from ECU Connector: Pin 44 PC2 Green with Brown Tracer

Green Wire (grey cable) -> solder to the wire harness: Green with Brown Tracer

Yellow Wire (grey cable) -> solder to the wire harness: Grey with Orange Tracer

### STEP 4 - CONNECT LAUNCHMAX TO +12V KEY-ON POWER AND TO GROUND

- Connect Grey and Red Wires (grey cable) to +12v Key-ON Power.  
Both of these wires must be connected to +12V when the key is ON and in the Start position.  
Solder connections if possible.
- Connect the Pink Wire (grey cable) to Vehicle Ground.  
Choose a good ground and bond to ground with a solid connection (screw or bolt).  
Solder connections if possible.

### STEP 5 - CONNECT LAUNCHMAX TO ONE SIDE OF A MOMENTARY SWITCH AND THE OTHER SIDE TO GROUND

- Connect the Blue Wire (grey cable) to one side of a momentary switch.  
Solder connections if possible.
- Connect the other side of a momentary switch to GROUND.  
Choose a good ground and bond to ground with a solid connection (screw or bolt).  
Solder connections if possible.
- The momentary switch should be Normally Open.  
When the switch is pressed the two connections should make contact and activate LaunchMAX.

### **STEP 6 - (OPTIONAL) CONNECT LAUNCHMAX TO MOMENTARY SWITCH & MSD 2-STEP ACTIVATION**

- Connect the Blue Wire (grey cable LaunchMAX) to the 3 wire connector on the MSD (Blue Wire)
- When the momentary switch is pressed (closed) ground will be applied to LaunchMAX and the MSD.

### **STEP 7 - USE ELECTRICAL TAPE TO INSULATE ALL CONNECTIONS, RECONNECT ECU PLUG, RECONNECT BATTERY**

- Insulate all connections using electrical tape.
- Reconnect the WireHarness plug to the ECU. Be sure to replace the tape that was removed in step 1.
- Reconnect the Battery

### **STEP 8 - TEST LAUNCHMAX**

- Do NOT ENABLE LaunchMAX when the vehicle is moving. Catastrophic Transmission Damage may occur if the LaunchMAX is enabled when the vehicle is moving.
- Turn the KEY-ON and verify that the GREEN LED is ON.
- When the momentary switch is pressed (closed) the RED LED on LaunchMAX will turn ON.  
If the RED LED is on the TRANS-BRAKE is enabled.

**LAUNCHMAX INSTALLATION IS COMPLETE.**

### **LAUNCHMAX - OPTIONAL +12v ACTIVATE WIRING (THREE STEPS)**

#### **HOW TO WIRE LAUNCHMAX SO IT CAN BE ENABLED VIA A MOMENTARY SWITCH AND +12V**

You Must Use The Optional Steps for 4, 5 and 6 to enable LaunchMAX with +12v.

#### **OPTIONAL LAUNCHMAX ACTIVATE +12v DC (STEP 1)**

##### **STEP 4 - CONNECT LAUNCHMAX TO +12v KEY-ON POWER AND TO GROUND**

- Connect Grey Wire (grey cable) to +12v Key-ON Power.  
This wire must be connected to +12V when the key is ON and in the Start position.  
Solder the connection if possible.
- Connect the Pink Wire and Blue Wire (grey cable) to Vehicle Ground.  
Choose a good ground and bond to ground with a solid connection (screw or bolt).  
Solder the connections if possible.

#### **OPTIONAL LAUNCHMAX ACTIVATE +12v DC (STEP 2)**

##### **STEP 5 - CONNECT LAUNCHMAX TO ONE SIDE OF A MOMENTARY SWITCH AND THE OTHER SIDE TO +12V DC**

- Connect the Red Wire (grey cable) to one side of a momentary switch.  
Solder connections if possible.
- Connect the other side of a momentary switch to +12v Key-On Power.  
Solder connections if possible.
- The momentary switch should be Normally Open.  
When the switch is pressed the two connections should make contact and activate LaunchMAX.

#### **OPTIONAL LAUNCHMAX ACTIVATE +12v DC (STEP 3)**

##### **STEP 6 - (OPTIONAL) CONNECT LAUNCHMAX TO MOMENTARY SWITCH & MSD 2-STEP ACTIVATION / NOS**

- Connect the Red Wire (grey cable LaunchMAX) to the 3 wire connector on the MSD (White/Blue Wire).
- Connect the Red Wire (grey cable LaunchMAX) to the +12v Activate wire on your NOS Controller.
- When the momentary switch is pressed (closed) +12v will be applied to LaunchMAX, MSD & NOS.
- Note: You will typically only use the optional +12v wiring in the event of a NOS controller that requires a +12v signal to Activate.

### DB9 WIRING REFERENCE - LAUNCHMAX (GROUND ACTIVATION WIRING)

- DB9 Pin 1 -> white wire -> input 1 -> *ECU Connector: PC3 Grey with Orange Tracer (73 - 2015) (45 - 2011-2014)*
- DB9 Pin 2 -> brown wire -> input 2 -> *ECU Connector: PC2 Green with Brown Tracer (74 - 2015) (44 - 2011-2014)*
- DB9 Pin 3 -> green wire -> output 2 -> Connect to OE Wire Harness Green with Brown Tracer
- DB9 Pin 4 -> yellow wire -> output 1 -> Connect to OE Wire Harness Grey with Orange Tracer
- DB9 Pin 5 -> grey wire -> connect to Pin 8 Red -> connect Grey and Red wires to +12v Key ON Power
- DB9 Pin 6 -> pink wire -> connect to GROUND
- DB9 Pin 7 -> blue wire -> connect to ONE side of a momentary switch, connect the other side to GROUND  
Optional - MSD 2-step connect 3 pin msd blue wire to the LaunchMAX DB9 pin 7 blue wire.
- DB9 Pin 8 -> red wire -> connect to Pin 5 Grey -> connect Grey and Red wires to +12v Key ON Power

### DB9 WIRING REFERENCE - LAUNCHMAX (+12 ACTIVATION WIRING)

- DB9 Pin 1 -> white wire -> input 1 -> *ECU Connector: PC3 Grey with Orange Tracer (73 - 2015) (45 - 2011-2014)*
- DB9 Pin 2 -> brown wire -> input 2 -> *ECU Connector: PC2 Green with Brown Tracer (74 - 2015) (44 - 2011-2014)*
- DB9 Pin 3 -> green wire -> output 2 -> Connect to OE Wire Harness Green with Brown Tracer
- DB9 Pin 4 -> yellow wire -> output 1 -> Connect to OE Wire Harness Grey with Orange Tracer
- DB9 Pin 5 -> grey wire -> connect Grey wire to +12v Key ON Power
- DB9 Pin 6 -> pink wire -> connect to Blue Wire Pin 7 -> connect Pink and Blue wires to GROUND
- DB9 Pin 7 -> blue wire -> connect to Pink Wire Pin 6 -> connect Blue and Pink wires to Ground
- DB9 Pin 8 -> red wire -> connect to ONE side of a momentary switch, connect the other side to +12v Key on Power  
Optional - MSD 2-step connect 3 pin msd white/blue wire to the LaunchMAX DB9 pin 8 red wire.  
Optional - Connect NOS or Turbo Controller to the LaunchMAX DB9 pin 8 red wire.

### 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.



### 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.



### 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 after-market component sales and distribution.



### 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**

Retail orders for JMS products can be placed through our website at: [www.jmschip.com](http://www.jmschip.com) or by calling us factory direct at (601) 766-9424. 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**

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### **SHIPPING AND HANDLING**

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### **SERVICE OR REPAIR:**

Please contact JMS @ 601-766-9424 for a Return Authorization. All service returns should be sent freight pre-paid to: JMS SERVICE, 3247 HWY 63 S, Lucedale, MS 39452. 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.

#### CONTACT JMS @ 601-766-9424 FOR A RETURN AUTHORIZATION NUMBER:

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.

#### SEND ALL RETURNS TO:

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### TECHNICAL SUPPORT & CONTACT INFORMATION:

JMS 3247 Hwy 63 S, Lucedale, MS 39452

601-766-9424

Technical Support Hours: Monday - Friday 9:00am - 5:00pm (Central Standard Time)

CONFIGURATION AND INSTALLATION VIDEOS ARE AVAILABLE ONLINE: [WWW.YOUTUBE.COM/JMSCHIP](http://WWW.YOUTUBE.COM/JMSCHIP)

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