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## 2010 to 2014 Mustang (V6 & V8) Granatelli Tyre Fryer Install Instructions

### Part # 760515



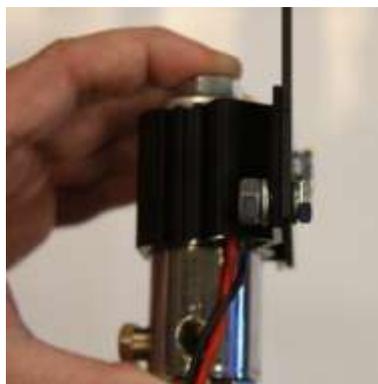
Thank you for considering the Granatelli Motor Sports Tyre Fryer System. Granatelli Motor Sports is your one stop shop for all your 1979 to 2015 Mustang restoration and performance parts. Our highly developed design showcases our superior quality stainless steel valve assembly.

**IMPORTANT:** Prior to attempting installation, please carefully read through the instructions to familiarize yourself with the procedures and steps required. It is important to note and for you to understand these instructions contain specific cautions and warnings that must be followed to prevent the chance of improper installation. Incorrectly installing the GMS Tyre Fryer could potentially render the vehicle unsafe to drive. If this is your first time installing a unit such as this, please show extreme caution or consult a professional certified automotive mechanic

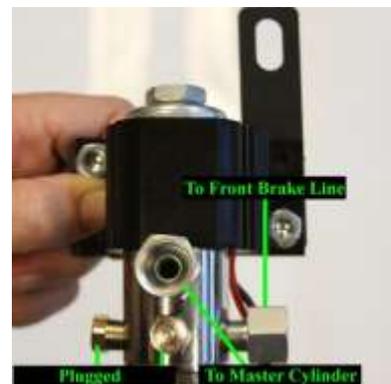
**INSTALLATION NOTES:** When working around brake systems cleanliness is imperative to avoid fluid contamination. This Granatelli Motor Sports Tyre Fryer solenoid valve is installed into the front brake system for momentary brake holding. When properly installed and operated in accordance with directions provided the solenoid valve will not interfere with normal brake operations.



Step 1 Photo



Step 2 Photo



Step 3 Photo

**STEP 1.** Clean the area around the mounting location. One way is to blow compressed air around the area to quickly clear a path for easy installation. Using the pictures provided identify the location where the system will be mounted as well as the front brake line to the Master Cylinder.

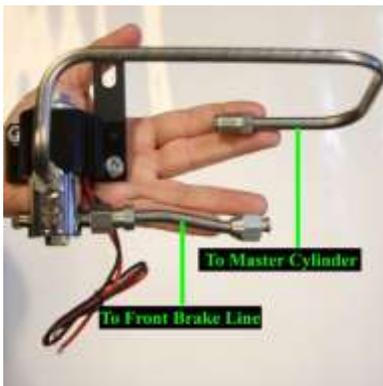
**STEP 2.** Position and attach the supplied mounting bracket to the solenoid as shown in step 2 and 3.

Using a 7/16" wrench, Install one each of the supplied 1/4-20 bolt, 1/4" flat washer, 1/4" lock washer, and 1/4-20 nut into each hole and fully tighten.

**Note:** A few drops of red Loctite insure a secure long lasting mount.

**STEP 3.** Using a 16mm and 11mm wrench, Install and tighten the provided adapters and plugs into the solenoid as shown in figure 3.

**NOTE:** Always use Teflon® tape to ensure a leak-proof seal. The use of thread sealer paste is ordinarily not recommended because it contaminates the brake fluid. Ensure the solenoid body does not loosen while tightening adapters and plugs. It is important to make sure the ports are correctly aligned and positioned before using a 9/16" socket to re-tighten top solenoid nut.



**Step 4 Photo**



**Step 5 Photo**



**Step 6 Photo**

**STEP 4.** Review photo 4 shown above to make sure you understand the proper new brake line routing before you move to the next step. **DO NOT** connect brake lines to solenoid just yet.

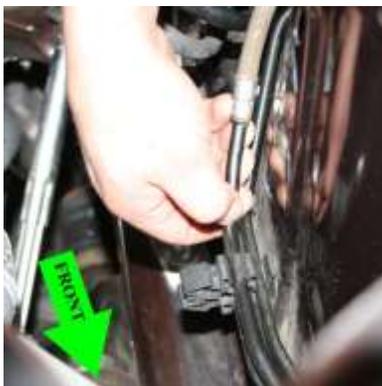
**NOTE:** There is no need to use Teflon® tape on flare fitting threads. They are designed to seat and be leak free.

**STEP 5.** Using a 13mm socket, Remove left Master Cylinder nut from Master Cylinder. A ratchet and extension really help here.

**STEP 6.** For Mustangs with the Induction Tube (highlighted on the left), this should be disconnected and removed for easier access to the brake lines. Once installation is complete it can be reinstalled.

**STEP 7.** Located on the side of the strut tower, remove front brake line from the brake line clip. See Figure 7.

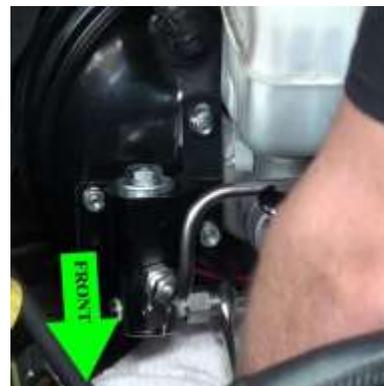
**STEP 8.** Before removing the factory brake line from the rear body of the Master Cylinder, place clean rags underneath to catch residual leakage. Fluid that may spill onto the vehicle needs to be cleaned and removed immediately. Now, using a 15mm wrench, you may unscrew front brake line shown in figure 8.



**Step 7 Photo**



**Step 8 Photo**



**Step 9 Photo**

**STEP 9. Our Recommended Installation Procedure:** Thread the Granatelli Tyre Fryer brake line into the OEM front brake line by hand and leave loose at this point. This allows for slight movement of lines while making adjustments. While finger tight, thread the Granatelli Tyre Fryer brake line into the adapter. Gently push the OEM brake line slightly down to allow the mounting bracket hole to match up with the Master Cylinder stud.

**Note:** Minor adjustments (bending/flexing) of lines may be required for perfect alignment).

Once the lines are properly positioned, using a **15mm wrench** on the brake line nut and a **16mm wrench** on the adapter side, tighten all the flare fittings.



**Step 10 Photo**



**Step 11 Photo**



**Step 12 Photo**

**STEP 10. Our Recommended Installation Procedure:** Following the same procedure as above, thread the Granatelli Tyre Fryer brake line into the Master Cylinder, but not tight enough to where it cannot be adjusted. Thread the Granatelli Tyre Frye brake line into the adapter, finger tight as well.

**Note:** Minor adjustments (bending/flexing) of lines may be required for perfect alignment).

Once line is aligned, tighten all flare fittings.

**Caution: NO NEED TO OVER TIGHTENING. IT MAY CAUSE LEAKS.**

**STEP 11.** Using your **13mm socket and extension**, Reinstalled the Master Cylinder nut removed and tighten to the factory spec of (18ft.-lbs).

**STEP 12. You're almost there! Before you try it out there are a few more steps that need to be adhered to.**

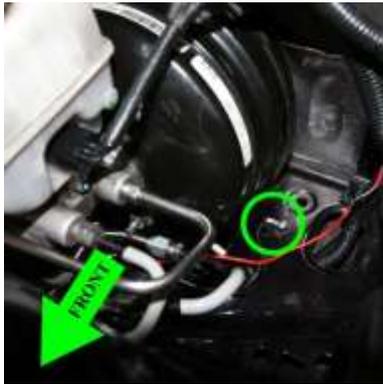
1. Bleed **ALL** brakes by following manufacturer's service manual guidelines (front brakes will usually have the most air but do them all back to front).
2. Make sure all the fittings are fully secured.
3. Confirm there are no leaks present.
4. The brake pedal should be firm with a solid feel. If the brake pedal slowly falls to the floor, there is a brake fluid leak and/or still air in system. Check and re-bleed if necessary.

**WARNING - Do not operate vehicle if leaks and/or air are in the lines!**

## **WIRING INSTALLATION**

**NOTE: The Granatelli Tyre Fryer system is designed and intended for 12 volt usage only. Only an arming switch is included in this kit. If wired properly that is all you need. Some people like to add an on/off (activation) switch as well. It acts as a bypass so no one can play with it.**

Before attempting to do the wiring it is always recommended you disconnect the negative (-) battery terminal. When wiring this system use #18 gauge or better standard insulated automotive wire to insure good electrical connections and continuity. A fuse holder with a 4-amp fuse is provided (See wiring diagrams for wiring details. The fuse can protect the electrical system in the event of a short circuit and therefore should be installed. We also provide one way diode that is to be installed under the dash to eliminate the chance of reverse voltage.



**Step 13 Photo**



**Step 14 Photo**



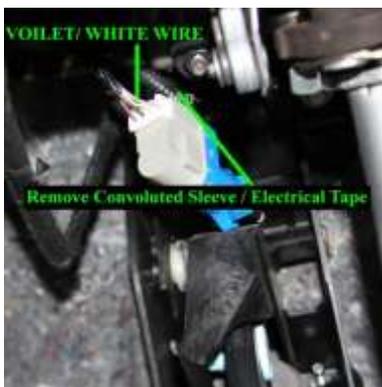
**Step 15 Photo**

**STEP 13.** You must properly ground the black wire from the Tyre Fryer solenoid. For this install, we installed the ground at a spot near the firewall for easier wiring. See Figure 13 with circle.

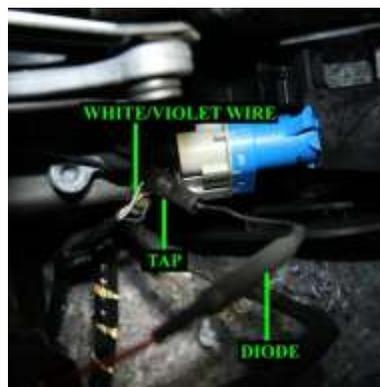
**STEP 14.** Pass the red wiring through one of the existing access points (one is located on the driver's side firewall). Be sure to ensure the wires are not pinched or pressing against a sharp metal edge. You can see where we ran our wire in picture 14.

**STEP 15.** Locate the Blue/Grey brake pedal switch directly under the dash (below the steering column). Rotate the brake pedal switch clockwise 1/8" turn to remove.

**Caution:** It is important that you do not allow the brake pedal itself to travel while removing and/or re installing the brake pedal switch



**Step 16 Photo**



**Step 17 Photo**



**Step 21 Photo**

**STEP 16.** You will note the 4 wire connector attached to the brake pedal switch. violet/red, black/blue yellow/green, and violet/white. You will need to remove a small portion of the electrical tape and convuluted tubing to expose and view the violet/white wire. **(Be extremely careful not to cut wires).**

**STEP 18.** Using the included T-tap connector, tap the black wire side of provided diode into the violet/white wire of the brake pedal switch. Connect the red wire side of the same diode into the momentary switch "in line" as shown in the wiring diagram using the provided 18ga connector / Scotchlok.

**Note:** Connecting the diode properly is a crucial step to insure your Granatelli Tyre Fryer works properly. (See wiring diagrams below) If installed backwards the system will not work and could cause AdvanceTrac malfunction. Additionally the diode needs to be down stream of the arming switch (as shown in the diagram) so that it only sees 12v reference when the Granatelli Tyre Fryer is armed otherwise it could cause the AdvanceTrac to malfunction.

Once wiring on steps 16 and 17 are complete, reinstall the brake pedal switch

**STEP 19.** Tap into a 12V accessory/cigarette lighter socket wiring harness connection with provided Scotchlock connector or another appropriate 12V source. Insure the 12v source is only "hot" when the key is on.

**STEP 20.** Reconnect negative battery cable and turn ignition key to the "ON" / engine "OFF" position. While the car is at rest, with the parking brake on, repeatedly tap your arming switch. You should hear the Granatelli Tyre Fryer system clicking on and off as you tap the button.

**NOTE:** Do Not depressing your brake pedal while initially test the solenoid.

If the solenoid is not “clicking” check all connections and the supplied in line fuse for a short and correct any problems before moving to the next step.

**CAUTION: Before attempting to drive the vehicle, please check the brake system for proper operation. Confirm all your connections while under pressure to make for certain there are no leaks and be sure that you have solid firm brake pedal. On a flat level surface, Test the system several times to be sure that it operates correctly. Make sure the front two wheels have the brakes engaged when the solenoid is activated and that all four wheels are free to rotate when the system is not engaged.**

## **OPERATION INSTUCTIONS**

### **To actuate the Granatelli Motor Sports Tyre Fryer system (BURNOUT):**

**STEP 21.** Before doing a burnout, you must turn OFF your Traction Control/AdvanceTrac while at a complete stop.

1. While remaining motionless, depress and hold the brake pedal.
2. Press the Traction Control / AdvanceTrac button for 5+ sec until “AdvanceTrac OFF” dash light appears.
3. With the Traction Control/AdvanceTrac OFF, fully depress and hold the brake pedal.
4. Activate the momentary switch of the Granatelli Motor Sports Tyre Fryer system.
5. Release the brake pedal.
6. The front brakes should now be locked and the rear wheels un-locked and free to spin.
- 7A. – **Automatic Transmission Vehicles** – Quickly step on the gas pedal aggressively to get the rear wheels spinning and hold at the desired RPM.
- 7B. – **Manual Transmission Vehicles** - Raise the engine RPM speed to a moderate level (Approximately 4500 RPM or higher) and quickly but smoothly release the clutch pedal fully. Your rear wheels should now be spinning and the vehicle should not be rolling forward if all the above steps have been performed correctly.
8. Fan the gas pedal to control the amount of wheel spin.
9. Once rear tires are heated, release the momentary switch to allow the vehicle to “drive-out” of the burnout.
10. Be prepared for the vehicle to lunge forward and get traction.
- 11A. – **Automatic Transmission Vehicles** – Quickly take your foot off the gas and press the brakes to slow down.
- 11B. – **Manual Transmission Vehicles** – Be prepared to re-depress the clutch and brake pedal to slow down.

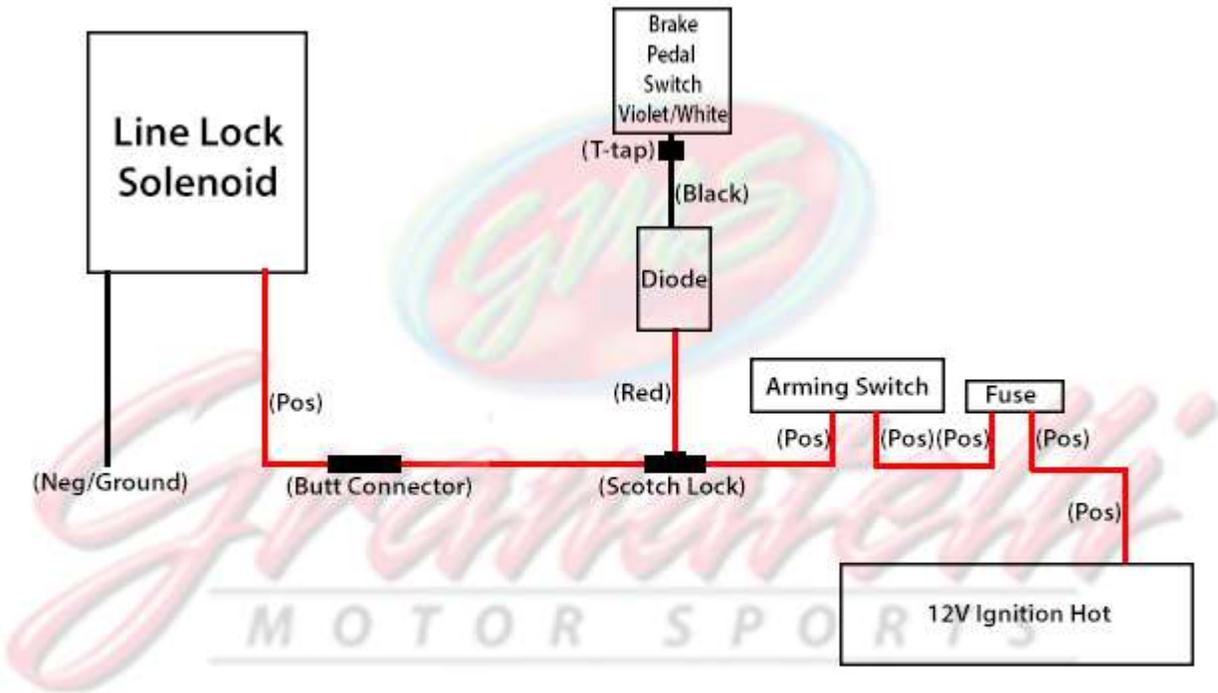
Turn ON your Traction Control / AdvanceTrac when not using the Granatelli Tyre Fryer.

**Warning: Turn ON your Traction Control / AdvanceTrac when not using the Granatelli Tyre Fryer. Performing a burnout without the Traction Control / AdvanceTrac off can damage the vehicle because the ABS is trying to counteract your burnout. AdvanceTrac would stop the burnout and a “Service AdvanceTrac” dash light might turn on. If this occurs, turn off car to reset system and/or take it to you nearest Ford dealership to reset the ABS hard code.**

**WARNING: The Granatelli Motor Sports Tyre Fryer Kit is not designed to act as a long term parking brake. It is designed to hold for no more than 30 seconds. The Tyre Fryer is recommended for use during closed track events and competitive driving venues ONLY! Consult your local**

In the event that this Tyre Fryer Kit should require service, please contact us at 805-486-6644 or [techsupport@granatellimotorsports.com](mailto:techsupport@granatellimotorsports.com).

Wiring Diagram:



**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](http://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](mailto: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](http://www.FedEx.com)) or UPS ([www.UPS.com](http://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](http://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](http://www.epa.gov). If federal warranty protection is denied, contact the FTC at (202) 326-3128 or [www.ftc.gov](http://www.ftc.gov). For additional information, check out [www.GranatelliMotorSports.com/TechSupport.htm](http://www.GranatelliMotorSports.com/TechSupport.htm).

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