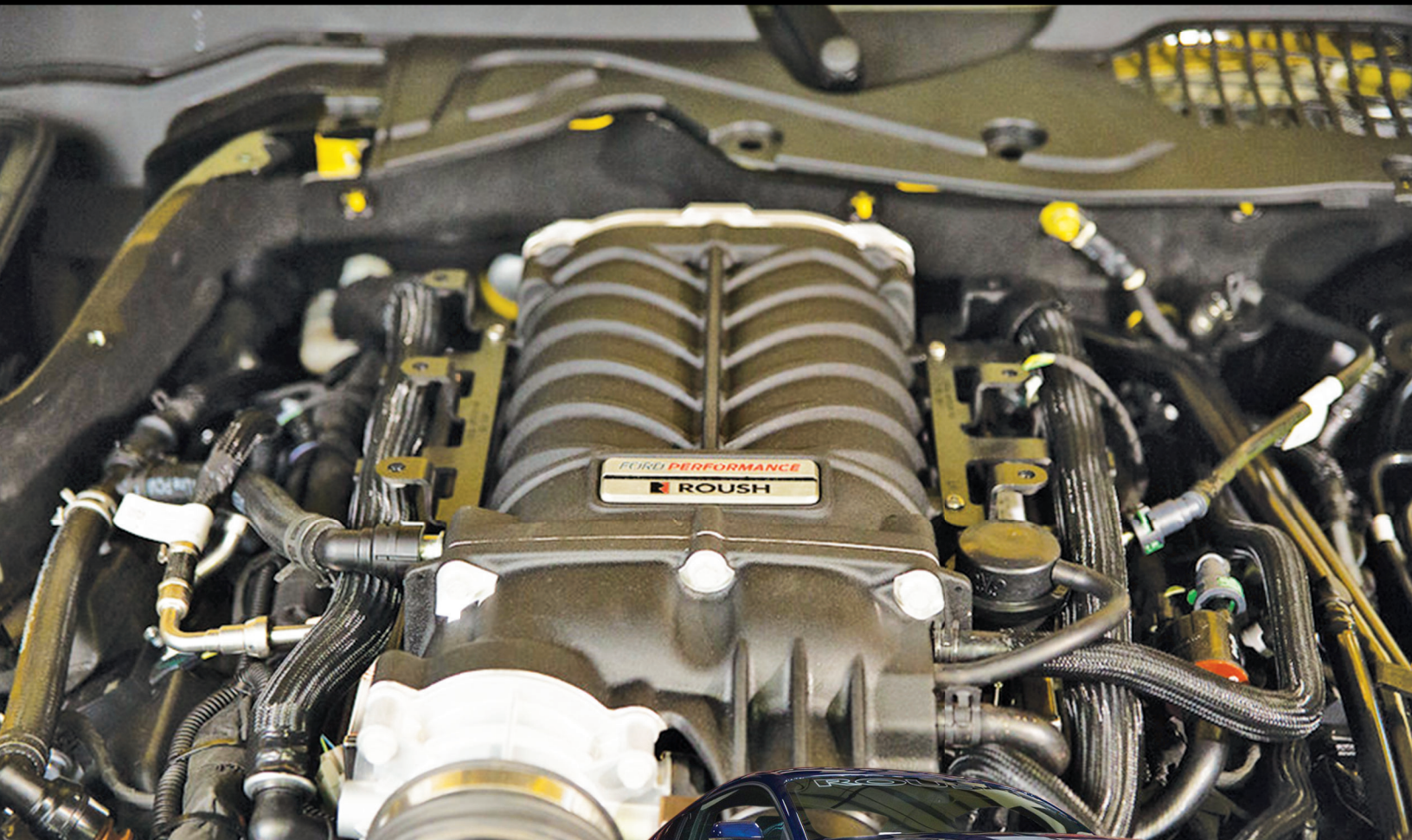


# 2018+ 5.0L Mustang Phase 1 and Phase 2 ROUSHcharger Upgrade Kit

Installation Instructions  
P/N: 422185 (R1318-P1P2UPG)  
EO D-418-34



**FORD PERFORMANCE  
PARTS**



**ROUSH**  
PERFORMANCE

39555 Schoolcraft Rd, Plymouth MI, 48170 | 800.59.ROUSH

# 2018 5.0L Mustang Phase 1 to Phase 2 ROUSHcharger Upgrade Kit

## Installation Instructions

P/N: 422185 (R1318-P1P2UPG)

EO D-418-34



**Application:** 2018+ Ford Mustang GT with the P1 ROUSH Supercharger Kit (PN: 422090)

### Important Notes:

- Before installing your Mustang ROUSHcharger Kit, please read the installation manual and verify that all items are present. If you are missing hardware or have any questions, please contact ROUSH Performance at 1-(800) 59-ROUSH.
- Premium fuel (91 octane or higher) 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.
- Operating your engine without the ROUSH PCM recalibration will result in engine damage or failure and will void your warranty.
- 5W50 oil is required.



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## PACKING LIST FOR R1318-P1P2UPG-AA ROUSHCHARGER UPGRADE KIT

Description	Part Number	Quantity
Low Temperature Radiator Assembly	1318-8K229	1
Bracket - LTR Lower	1318-8K244	2
RDT Voucher Card 2018+ P2	P1318-P2	1
LTR Foam Seal	1318-8K230	1

If you are missing any items, please call us toll free at 1-800-59-ROUSH.

## LIMIT OF LIABILITY STATEMENT

The information contained in this publication was accurate and in effect at the time the publication was approved for printing and is subject to change without notice or liability. ROUSH Performance Products reserves the right to revise the information presented herein or to discontinue the production of parts described at any time.

## SAFETY PRECAUTIONS



### CAREFULLY READ THE IMPORTANT SAFETY PRECAUTIONS and WARNINGS BEFORE PROCEEDING WITH THE INSTALLATION!

Appropriate disassembly, assembly methods and procedures are essential to ensure the personal safety of the individual performing the kit installation. Improper installation due to the failure to correctly follow these instructions could cause personal injury or death. Read each step of the installation manual carefully before starting the installation.

- Always wear safety glasses for eye protection.
- Place the ignition switch in the OFF position.
- Always apply the parking brake when working on the vehicle.
- Block the front and rear tire surfaces to prevent unexpected vehicle movement.
- Operate the engine only in well-ventilated areas to avoid exposure to carbon monoxide.
- Do not smoke or use flammable items near or around the fuel system.
- Use chemicals and cleaners only in well-ventilated areas.
- Batteries can produce explosive hydrogen gas which can cause personal injury. Do not allow flames, sparks or flammable sources to come near the battery.
- Keep hands and any other objects away from the radiator fan blades.
- Keep yourself and your clothing away from moving parts when the engine is running.
- Do not wear loose clothing or jewelry that can be caught in rotating or moving parts.

## DISASSEMBLY

The following section will guide you through the disassembly of the stock components. Special care should be taken to label fasteners and parts that are taken off during this procedure since many will be reused.

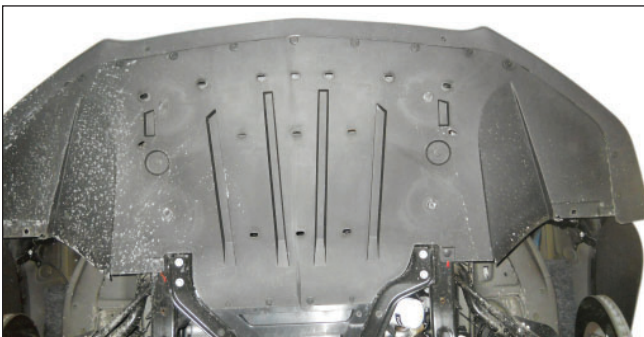
1. Open the hood. Remove the push pins from the battery cover panel located on the passenger side of the engine bay, and remove the panel.



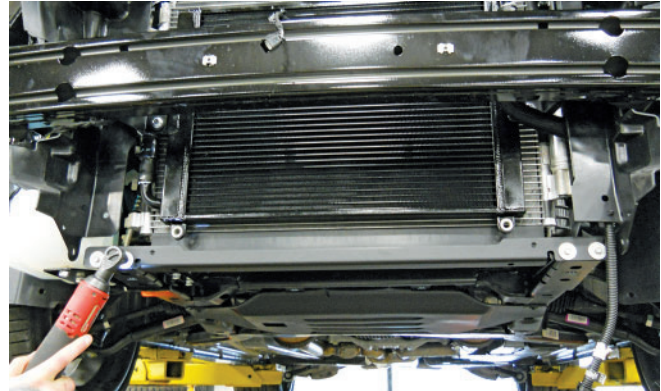
2. Loosen the retaining nuts and disconnect the (-) negative and (+) positive connections to the battery. Stow the cables out of the way.



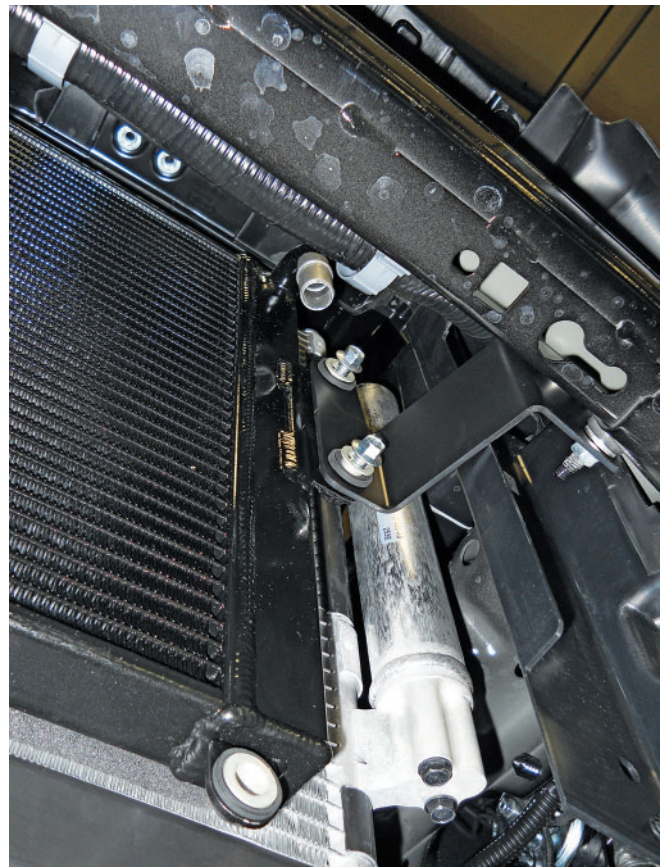
3. Remove the nineteen (19) lower close-out panel bolts and the six (6) push pins. Remove the lower close-out panel from the vehicle (7 mm socket).



4. Remove the coolant from the intercooler system. (Use a vacuum machine or remove the connector from the lower low temperature radiator [LTR] fitting.)
5. Remove the two (2) lower LTR brackets and the spanner bar. (The two [2] LTR brackets will be discarded.) Disconnect both hoses attached to the low temperature radiator.



6. Remove the four (4) bolts holding the LTR to the bumper brackets.



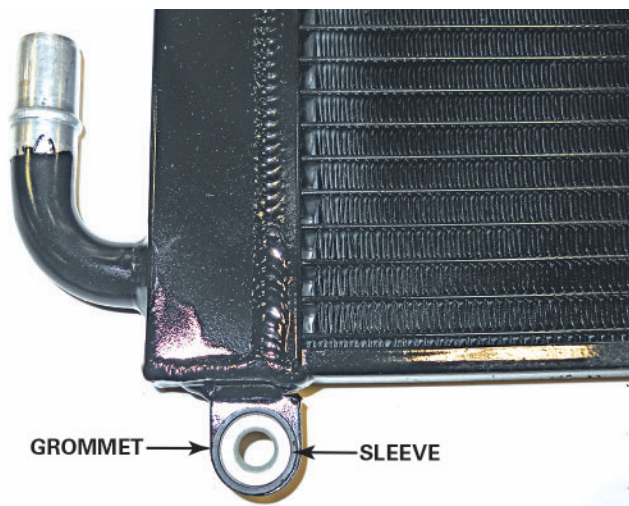
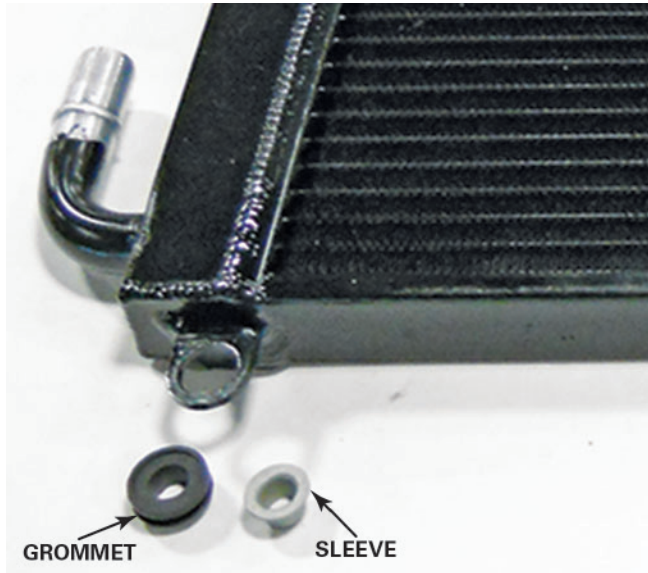
7. Carefully lower the LTR and drain the remaining fluid from the LTR.

## 2018+ 5.0L Mustang P1 to P2 ROUSHcharger Upgrade Kit

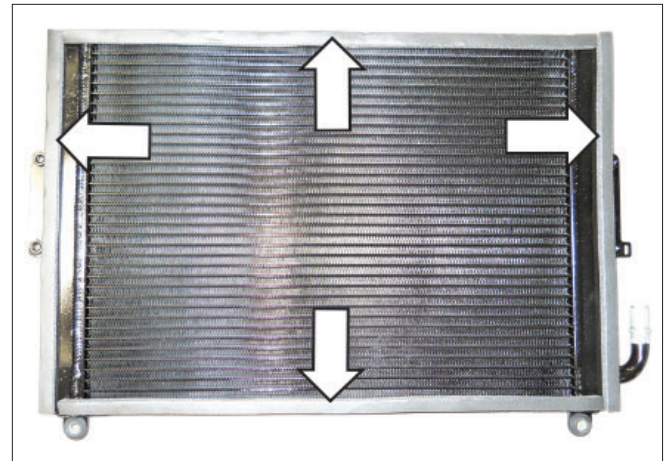
If the vehicle is equipped with active shutters, please see instructions at the end of the manual for front fascia removal.

### INTERCOOLER LTR

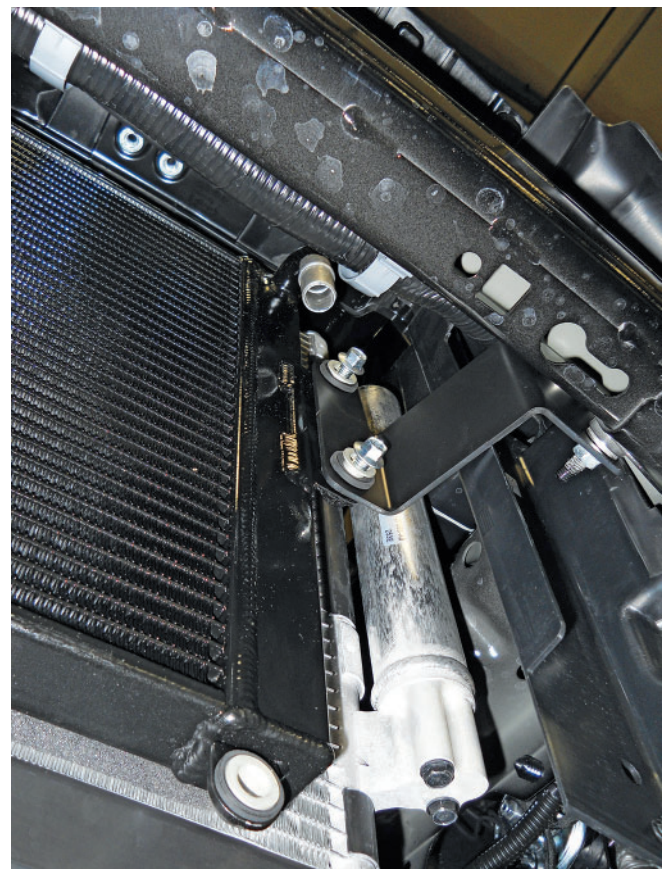
1. Move the grommets and sleeves over from the old LTR.



2. Turn the LTR over. Apply the seal stripping (1318-8K230) to all sides of the LTR frame as shown.



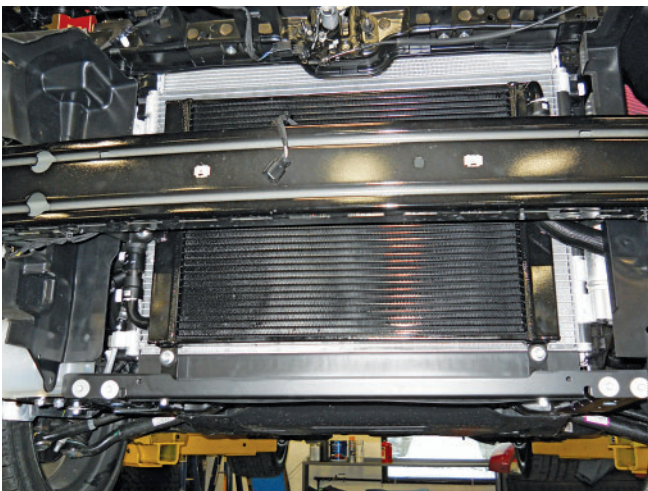
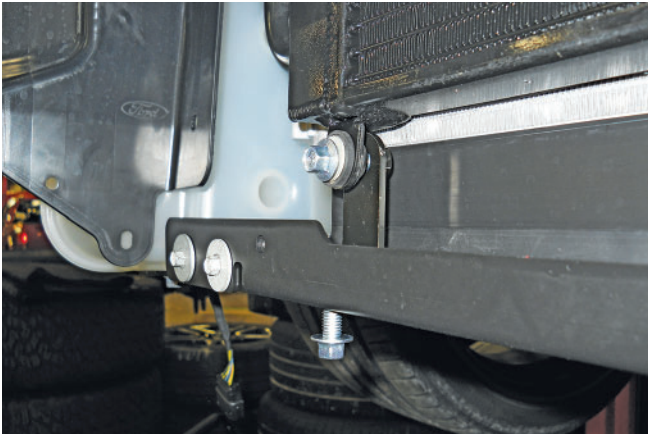
3. Raise the LTR assembly into the mounting position against the brackets and align the bolt holes. Reinstall the four (4) bolts and torque to 25 Nm.



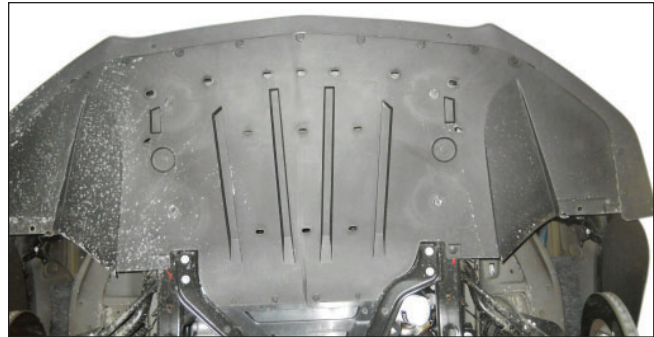
4. Install the spanner bar using the four (4) takeoff M6 bolts. Torque to 15 Nm.



5. Install two (2) lower LTR brackets (1318-8K224) found in the new kit. Secure each tab to the LTR using two (2) of the takeoff bolt. Torque to 25 Nm.



6. Reinstall the closeout panel using the takeoff hardware.



7. Fill the intercooler system. The coolant should be approximately one inch below the top of the cap.
8. Reconnect the battery cables.
9. Start the vehicle and allow the engine to reach operating temperature. Check for leaks.

## PCM FLASHING

1. If equipped with a SAE-J2534 pass through device, refer to the RDT-CALIM manual found on our website. The RDT-CALIM manual will guide you through the ROUSH Diagnostic Tool (RDT) software installation process and the ROUSH PCM flashing procedure.  
**OPERATING THE ENGINE WITHOUT THE RECALIBRATED PCM WILL RESULT IN ENGINE DAMAGE OR FAILURE AND WILL VOID THE WARRANTY.**

**NOTE:** Make sure to skip the ICM flash step as detailed in RDT-CALIM.

## FRONT FASCIA REMOVAL

**THIS SECTION IS FOR ACTIVE SHUTTER VEHICLES ONLY.**

1. Suspend the front of the vehicle on jack stands and remove the front wheels.
2. Remove the two (2) push pins from the fender liner on both sides of the vehicle using a trim removal tool or a pry tool as shown. Repeat on the other side of the vehicle.



## 2018+ 5.0L Mustang P1 to P2 ROUSHcharger Upgrade Kit



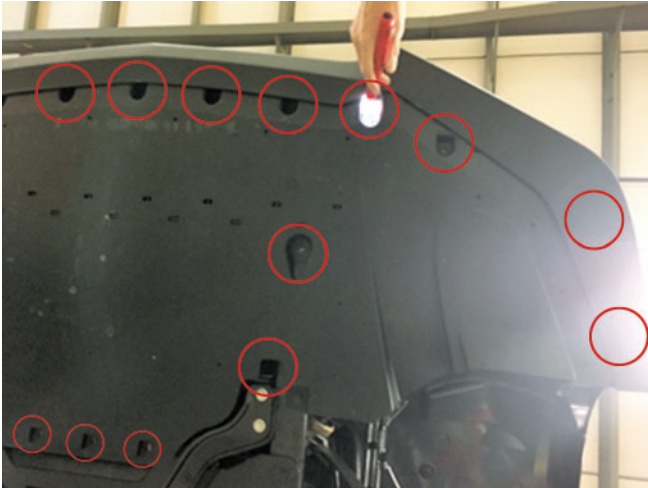
3. Remove the five (5) push pins and remove the fender liner as shown. Repeat on the other side of the vehicle.



4. Remove the two (2) 8 mm screws from the stone deflector (non-performance package) located on the undertray just in front of each tire. Note stone deflector is not shown but fastener locations are indicated. Repeat on the other side of the vehicle.



5. Remove the seventeen (17) (nineteen [19] for performance package) 8 mm screws from the undertray. Remove the two (2) push pins and remove the undertray from the vehicle.



6. Disconnect the fog lamp connector. Repeat on the other side of the vehicle.

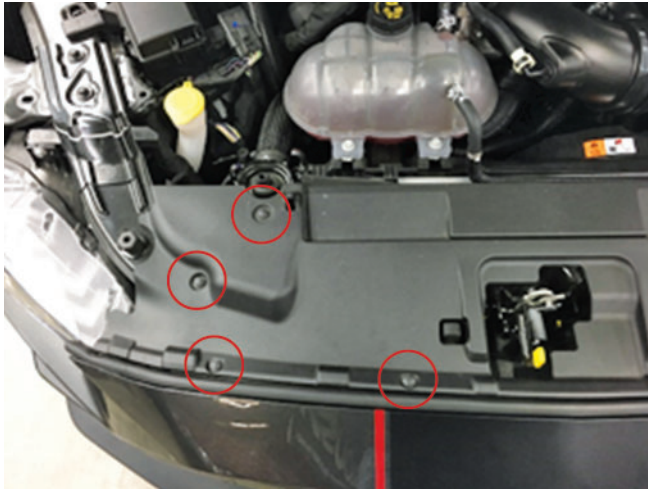


7. Remove the two (2) nuts and one (1) push pin holding the fascia to the fender. Repeat on the other side of the vehicle.

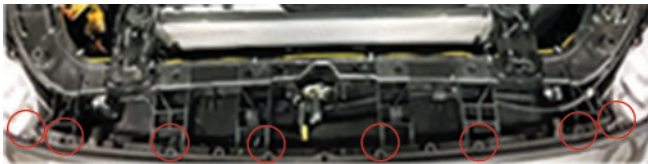


8. Open the hood and remove the eight (8) push pins holding the radiator shroud.

## 2018+ 5.0L Mustang P1 to P2 ROUSHcharger Upgrade Kit



9. Remove the two (2) 7 mm screws and six (6) 8 mm screws from the upper lip of the fascia. Lift the fascia off the alignment pins and forward off the vehicle (this step may require assistance from another person).



10. Unbolt and disconnect the active shutters. They will not be reinstalled on the vehicle.