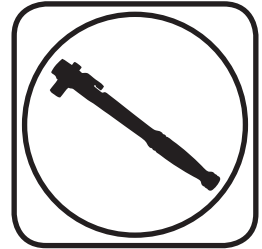




**Part # 12272401 -2015 up Mustang**



Recommended Tools



## 2015 up Mustang Front HQ AirStrut Installation Instructions

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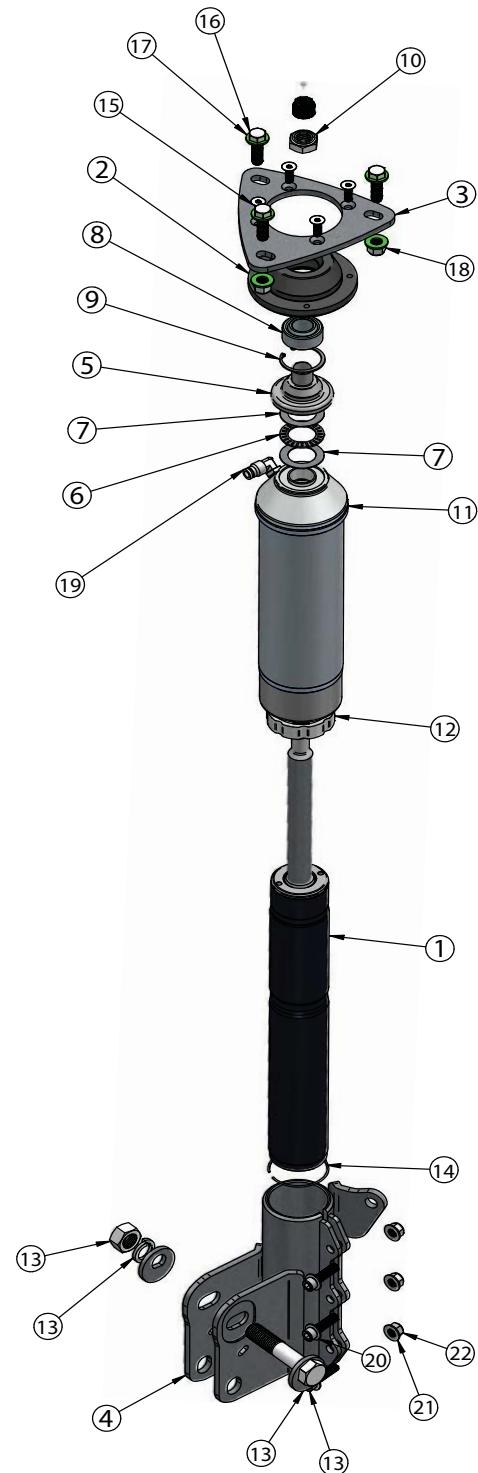
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### Included Components .....In the box

Item #	Part #	Description	QTY
1	27569999	Strut Cartridge	2
2	90002540	Bearing Retaining Mount	2
3	90002541	Upper Mounting Plate	2
4	90002542	Lower Strut Mount (Driver)	1
4	90002543	Lower Strut Mount (Passenger)	1
5	90002368	Thrust Bearing Adapter	2
6	70010987	Thrust Bearing	2
7	70010988	Thrust Bearing Washer	4
8	90001042	Upper Mount Bearing	2
9	90000805	Upper Bearing Snap Ring	2
10	99562003	9/16"-18 Nylok Nut	2
11	21090798	AirStrut Air Spring	2
12	70008913	Air Spring Locking Ring	2
13	90000801	Eccentric Bolt	2
14	70010992	Strut Retaining Ring	2
15	72000008	1/4"-20 x 3/4" Flat SHCS	8
16	99371004	3/8"-16 x 1 1/4" Hex Bolt	6
17	99373003	3/8" Flatwasher	12
18	99372002	3/8'-16 Nylok Nut	6
19	31954201	90 Degree 1/4" Air Fitting	2
20	99311009	5/16-18 x 1" Socket Head	6
21	99313002	5/16" SAE Flatwasher	12
22	99312003	5/16"-18 Nylok Nut	6
	99055000	Locking Ring Set Screw	2



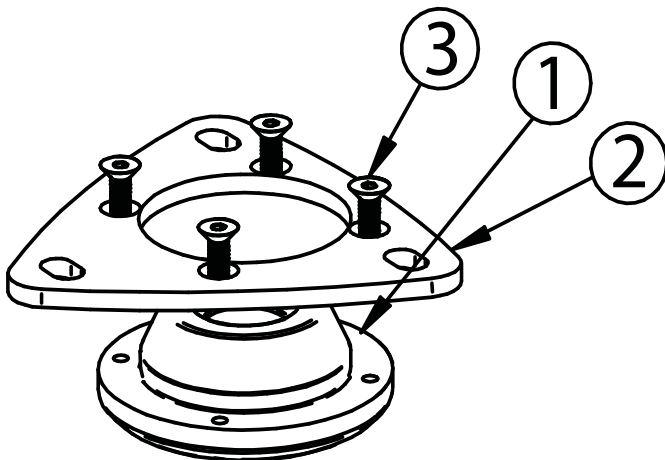


### Disassembly

1. Remove the front struts by first disconnecting the ABS wire from the factory strut.
2. Disconnect the swaybar linkage from the strut.
3. Support the front hub and control arm assembly and remove the (2) struts bolts(retain hardware) that attach the strut to the spindle.
4. Remove the (3) nuts holding the upper strut mount to the car body. **DO NOT REMOVE THE CENTER NUT.**
5. Remove strut assembly from the car.

### Getting Started

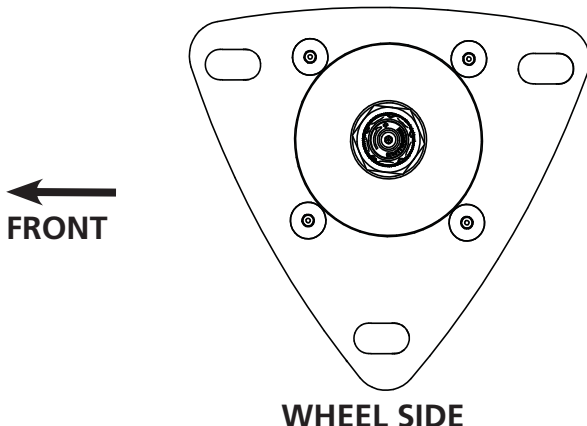
6.



6. The upper will need to be assembled. The plate is positioned with the counter sunk holes up. Insert the Aluminum Bearing Mount into the Plate from the **BOTTOM**. The center of the Aluminum mount will stick up through the plate. Apply Red Loctite to the threads of (4) 1/4"-20 x 3/4" Flat Head Socket Cap Screws. Thread the 4 Caps Screws into the aluminum mount and Torque them to 11ftlbs.

7.

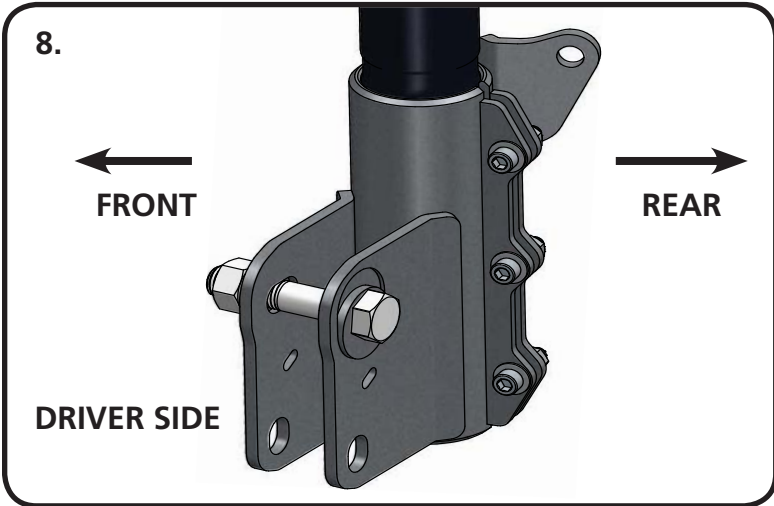
**DRIVER SIDE**



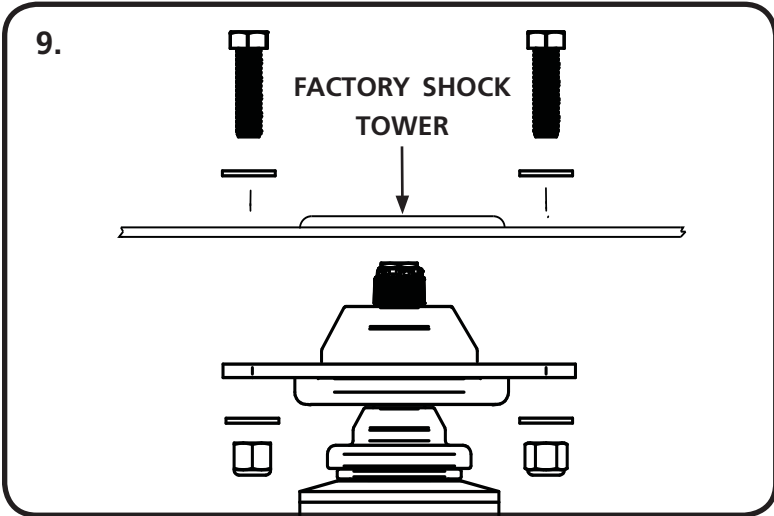
7. The upper strut mount is slotted to provide additional caster adjustment. The upper mount has the top of the strut offset to the inside of the car for tire clearance. It is positioned with the slots running front to rear and strut mount inset toward the engine.



### Strut Assembly

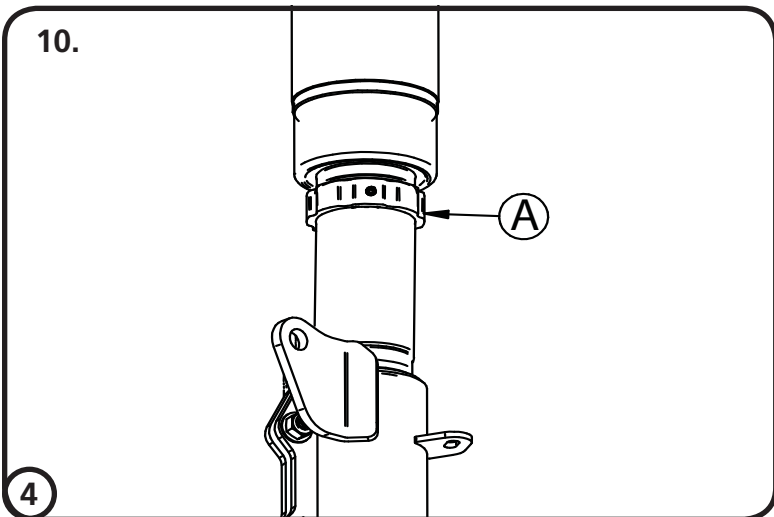


8. There is a Driver and Passenger Strut Assembly. The Sway Bar Tab is to the REAR of the car. The Clamping Bolts will also be positioned to the REAR of the car. Illustration "10" shows the Driver Assembly.



9. Bolt the upper mount into the car, positioning it to the **bottom** side of the Strut Tower. The plate gets bolted in from the **bottom** side of the strut tower using (3) 3/8"-16 x 1 1/4" bolts. Slide the Plate to the **REAR** of the Car for an initial setting. Install a 3/8" washer on the top and bottom and secure it with (3) 3/8" 16 Nylok Nuts. Tighten all (3) down.

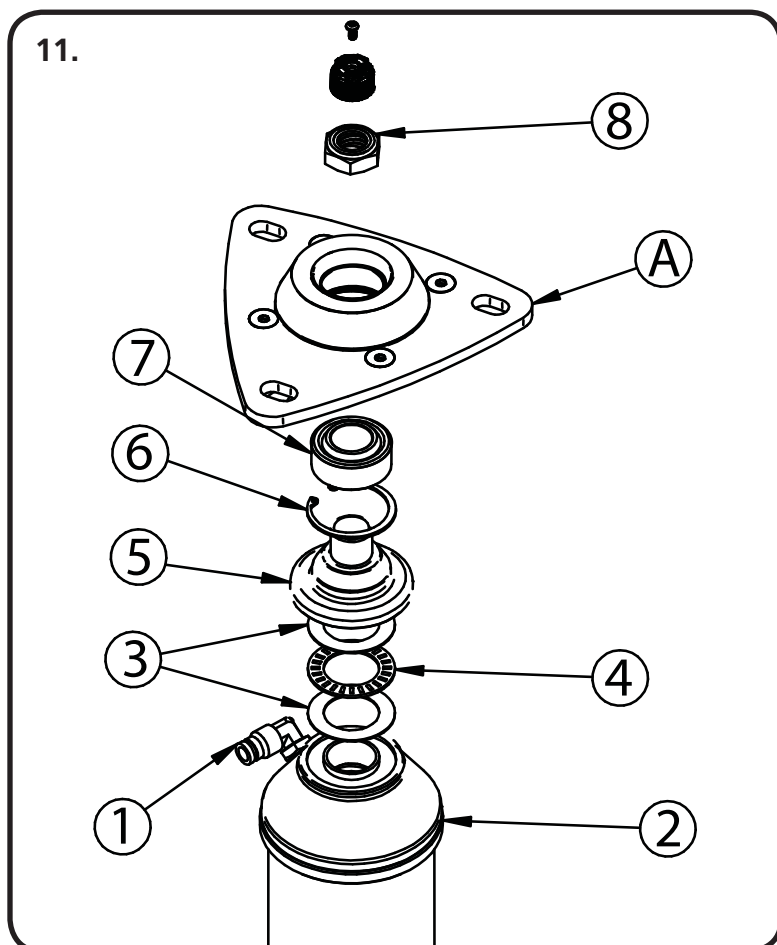
**Note: The camber adjustment will be done on the bottom of the strut using the supplied camber bolt.**



10. The Strut has a Locking Ring[A] that locates the Air Spring, **NEVER change the location of the Locking Ring**. This locking ring is preset to optimize the stroke of the air spring with the stroke of the strut. **NEVER REMOVE THE AIR SPRING FROM THE STRUT.**



### Assembly



**11.** Install the Air fitting into the Air Spring using thread tape. Remove the Adjuster Knob from the Strut shaft for assembly. Bolt the strut assembly into the upper mount (A), see Diagram "11" for assembly order. **NEVER REMOVE THE AIR SPRING FROM STRUT.**

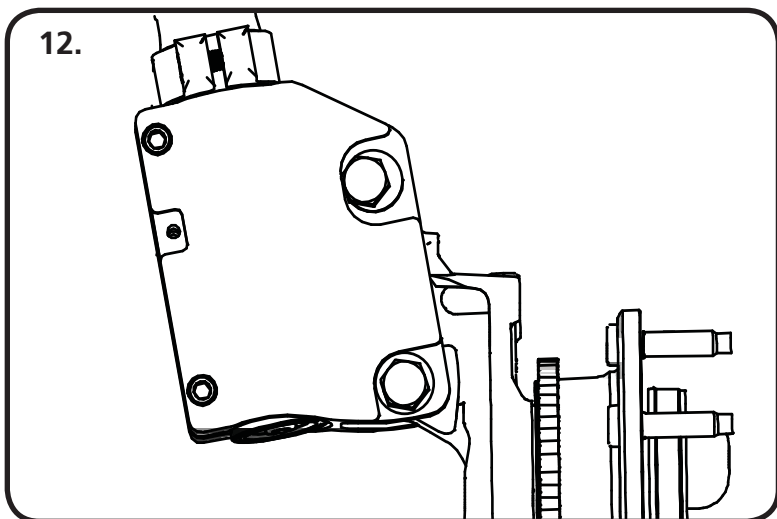
1. 90 Degree Air Fitting
2. Air Spring
3. Torrington Bearing Races
4. Torrington Bearing
5. Bearing Adapter (Small Diameter Up)
6. Upper Mounting Bearing Snap Ring
7. Upper Mounting Bearing
8. 9/16" Locknut

Assemble components and install into upper mount tightening upper nut. Reinstall upper adjustment knob.

**12.** Slide the lower strut mount onto the spindle. Reuse the Factory hardware in the lower mounting hole. Insert the supplied Camber bolt into the top hole.

**NOTE: THE STRUT TO SPINDLE ATTACHING BOLTS WILL NEED TO BE TORQUED TO 150 FTLBS TO KEEP IT FROM MOVING.**

### Lower Strut Attachment



**13.** Reattach the OEM sway bar linkage to the strut housing using the OEM hardware.

**14.** Snap the ABS Wire into the Strut Mounts using the OEM retaining Clip that is attached to the Wire. Route the Airline to the Air Spring. When hooking up the Airline be sure that you can turn the steering from lock to lock without tugging on the Airline. This situation will eventually cause the line to leak.



### Strut Adjustment

15. Repeat previous steps on Passenger side.

**IT IS NECESSARY TO HAVE THE CAR ALIGNED AFTER INSTALLATION. TORQUE THE STRUT TO SPINDLE ATTACHING BOLTS TO 150 FTLBS.**

#### Strut Adjustment 101- Single Adjustable

##### Rebound Adjustment:

How to adjust your new struts.

The rebound adjustment knob is located on the top of the Strut protruding through the upper mount.

You must first begin at the ZERO setting, then set the shock to a soft setting of 20.



-Begin with the Strut adjusted to the ZERO rebound position (full stiff). Do this by rotating the rebound adjuster knob clockwise until it stops.

-Now turn the rebound adjuster knob counter clock wise 20 clicks. This sets the shock at 20. (settings 21-24 are typically too soft for street use).

**Take the vehicle for a test drive.**



-If you are satisfied with the ride quality, do not do anything, you are set!

-If the ride quality is too soft increase the damping effect by rotating the rebound knob clock wise 3 clicks.

**Take the vehicle for another test drive.**



-If the vehicle is too soft increase the damping effect by rotating the rebound knob clock wise 3 additional clicks.

-If the vehicle is too stiff rotate the rebound adjustment knob counter clock wise 2 clicks and you are set!

Take the vehicle for another test drive and repeat the above steps until the ride quality is satisfactory.

##### Note:

**One end of the vehicle will likely reach the desired setting before the other end. If this happens stop adjusting the satisfied end and keep adjusting the unsatisfied end until the overall ride quality is satisfactory.**

#### STILL HAVE QUESTIONS?

##### Tech line hours

Monday - Friday

8AM - 6PM (EST) ..... 812-482-2932

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