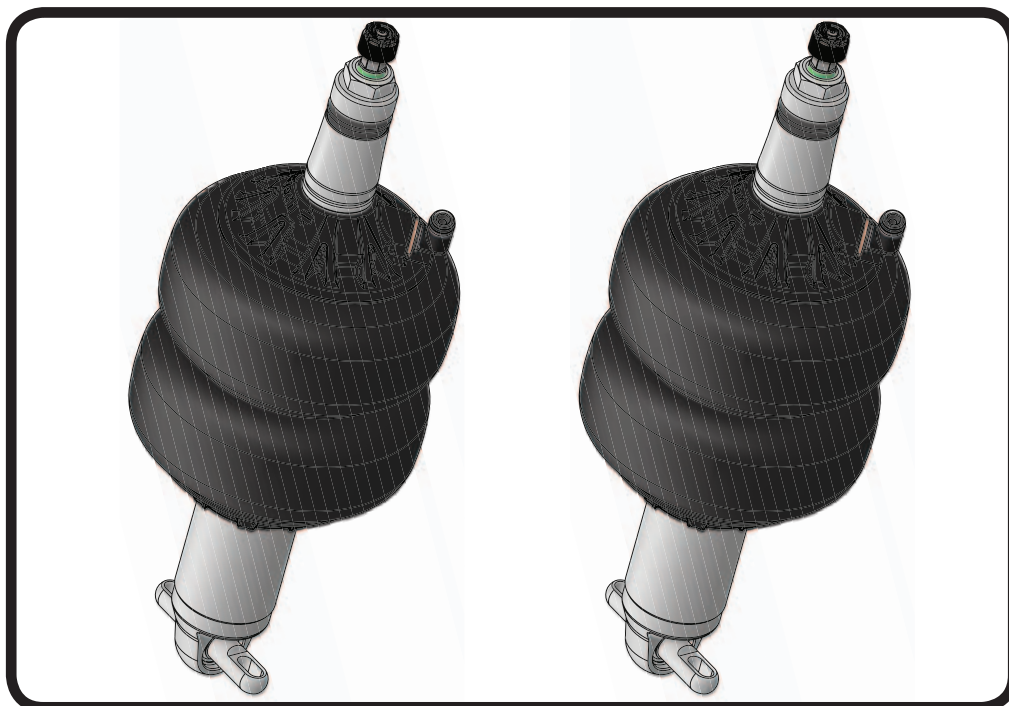
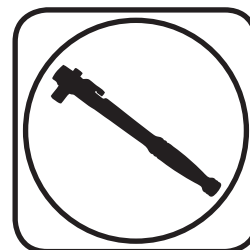
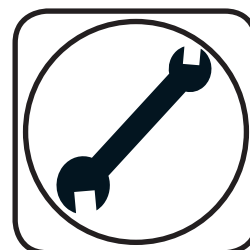




**Part # 12092401** - 64-66 Ford Mustang Front HQ Shockwave, for OEM Arms



### Recommended Tools



## 1000 Series Bellow, 2.0" Stud/Eye 2.9" Shock Installation Instructions

**THESE SHOCKWAVES ARE DESIGNED TO BE USED WITH RIDETECH STRONGARMS**

### Table of contents

Page 2..... Included components

Page 3-4..... Shockwave Installation

Page 5-6..... Notes and Care of Your Shockwave & Shock Adjustment

### ShockWave Dimensions:

#### Mount to Mount:

Compressed: 9.60"

Ride Height: 11.00"

Extended: 11.90"

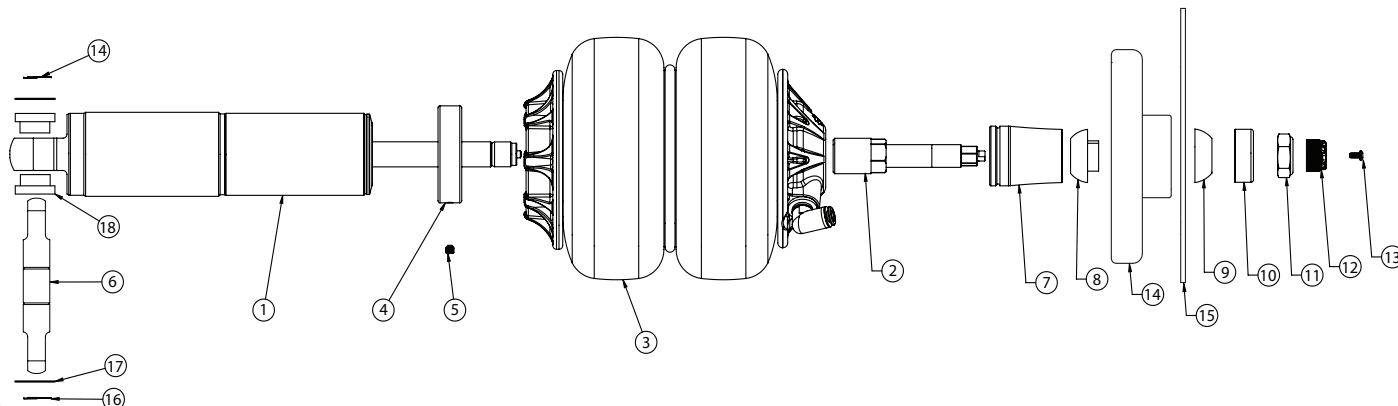
[www.ridetech.com](http://www.ridetech.com)  
812-482-2932





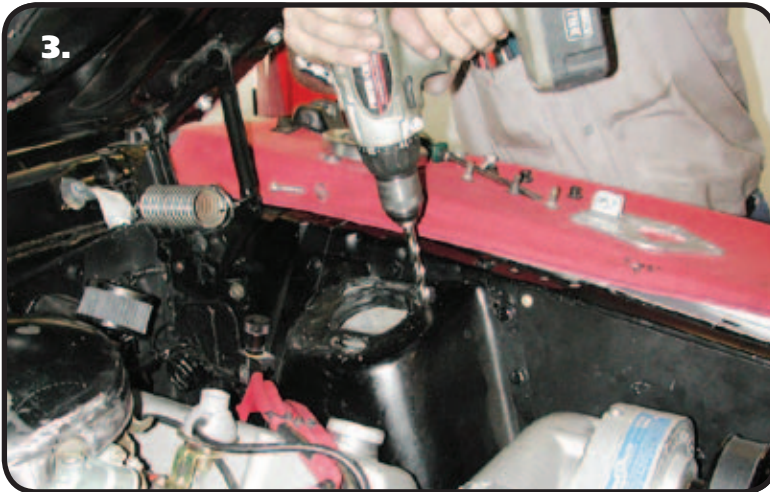
### Major Components .....In the box

| Item # | Part #   | Description                                                       | QTY |
|--------|----------|-------------------------------------------------------------------|-----|
| 1      | 24129999 | 2.9" Stroke HQ Series Shock                                       | 2   |
| 2      | 90009988 | 2" Stud Top (Installed on Shock) - Includes Adjuster Knob & Screw | 2   |
| 3      | 24090199 | 1000 Series 6.5" Double Convolute AirSpring                       | 2   |
| 4      | 70010893 | AirSpring Locking Ring (Installed on shock)                       | 2   |
| 5      | 99055000 | Locking Ring Set Screw (Installed on shock)                       | 2   |
| 6      | 90001639 | Mustang Trunnion (preassembled in shock)                          | 4   |
| 7      | 90002312 | 2" Aluminum Stud Top Base                                         | 2   |
| 8      | 90001904 | Bottom Delrin Ball                                                | 2   |
| 9      | 90001903 | Top Delrin Ball                                                   | 2   |
| 10     | 90001902 | Delrin Ball Aluminum Top Cap                                      | 2   |
| 11     | 99562003 | 9/16"-18 Thin Nylok Nut                                           | 2   |
| 12     | 90009972 | Adjuster Knob - (90009988 assembly)                               | 2   |
| 13     | 90009969 | #4-40 X 1/4" SS, 18-8 Pan Head Torx Cap - (90009988 assembly)     | 2   |
| 14     | 90002356 | Upper ShockWave Mount                                             | 2   |
| 15     | 90000563 | Aluminum Top Cover Plate                                          | 2   |
| 16     | 90001634 | Trunnion Locking Rings (preassembled in shock)                    | 4   |
| 17     | 90009936 | Trunnion/Bushing Shims (preassembled in shock)                    | 4   |
| 18     | 70009554 | Poly Bushing (preassembled in shock)                              | 4   |
|        | 99311012 | 5/16" X 1" Flange Bolt                                            | 6   |
|        | 99371004 | 3/8"-16" X 1 1/4" Hex Bolt                                        | 4   |
|        | 99372002 | 3/8"-16 Nylok Nut                                                 | 4   |
|        | 99373003 | 3/8" SAE Flat Washer                                              | 8   |





### ShockWave Installation



**1.** Raise and support vehicle at a safe, comfortable working height. Let the front suspension hang freely.

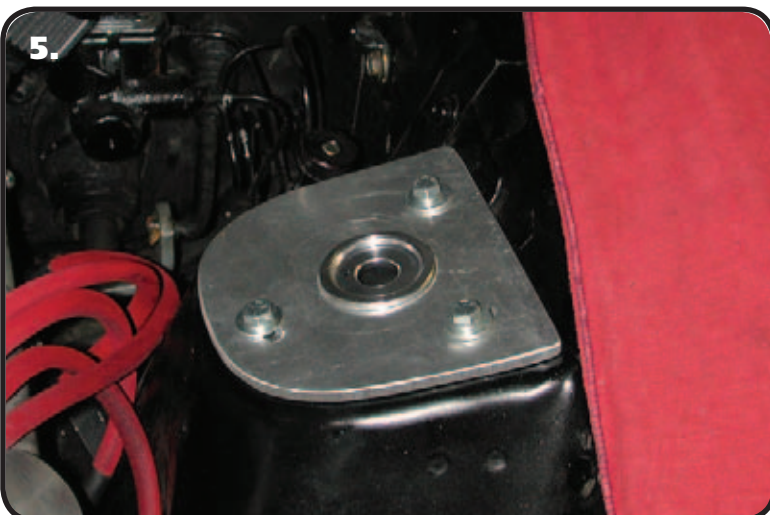
**2.** Remove the coil spring, shock absorber, and upper shock bracket. Refer to factory service manual for proper disassembly procedure. Also, it is easier to install the ShockWave with the CoilSpring Shield removed.

**3.** Drill a 3/8" Hole in the CENTER of the large part of the Key Hole Slots. Do this for each Key Hole in the driver and passenger shock towers.



**4.** Hold the Aluminum Upper Mount against the bottom of the shock tower lining up the threaded holes with the holes drilled in the shock tower.

**Note:** On certain models you may have to trim the coil spring retainer to allow the upper Shockwave mount to seat properly.

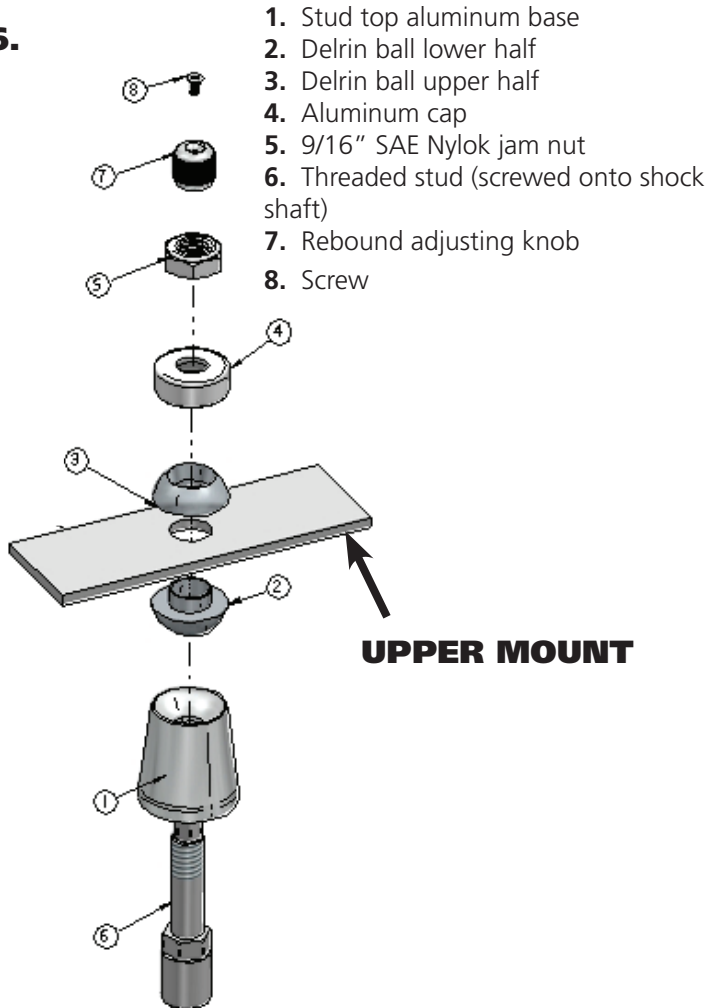


**5.** Lay the Upper Plate on Top of the shock tower with the ShockWave Mount protruding through the large center hole. Line up the the holes in the Upper Plate with the holes drilled in the shock tower and the holes in the ShockWave mount. If the INNER Hole doe not line up, flip the plate over. Install a 5/16" x 1" Flange Bolt in each hole and tighten.



### ShockWave Installation

6.



**Note:** The airline must also be routed at this time. It can be ran through the subframe toward the rear of the vehicle.

5. The air fitting location can be rotated by twisting the bellow assembly separate of the shock. Place the Shockwave into the coil spring pocket with the stud sticking through the OEM shock hole. See assembly **Diagram 6.**

1. Stud top aluminum base
2. Delrin ball lower half

#### UPPER MOUNT

3. Delrin ball upper half
4. Aluminum cap
5. 9/16" SAE Nylok jam nut
6. Threaded stud (screwed onto shock shaft)
7. Rebound adjusting knob
8. Screw

7. Bolt the trunnion to the top of the upper arm using two 3/8" x 1 1/4" bolts, nyloc, and flat washers. Torque to 30 ftlbs.

8. Reattach the outer coil spring shield. A hole can be drilled into it to allow airline access to the Shockwave. Use a rubber grommet to prevent airline damage.

**Check air spring clearance through full suspension travel. Allowing the air spring to rub will cause failure and is not a warrantable situation.**

Ride height should be around 85 psi but will vary to vehicle weight and driver preference.

7.







## Installation Instructions



### Notes and Care of your Shockwaves

#### NOTES:

**TIGHTENING THE TOP 9/16"-18 NUT:** SNUG THE NUT DOWN AGAINST THE TOP CAP. YOU NEED TO BE ABLE TO ARTICULATE THE SHOCK BY HAND.

You can clock the airfitting location on the ShockWave by turning the AirSpring assembly of the shock.

When cutting the airline, use a razor blade. The cut needs to be a clean cut and square for the airline to seal properly.

The Locking ring on the shock is **NOT** adjustable. These rings are set at the factory to optimize the AirSpring stroke with the shock stroke.

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## The care and feeding of your new ShockWaves

1. Although the ShockWave has an internal bumpstop, **DO NOT DRIVE THE VEHICLE DEFLATED RESTING ON THIS BUMPSTOP. DAMAGE WILL RESULT.** The internal bumpstop will be damaged, the shock bushings will be damaged, and the vehicle shock mounting points may be damaged to the point of failure. This is a non warrantable situation.
2. Do not drive the vehicle overinflated or "topped out". Over a period of time the shock valving will be damaged, possibly to the point of failure. This is a non warrantable situation! If you need to raise your vehicle higher that the ShockWave allows, you will need a longer unit.
3. The ShockWave is designed to give a great ride quality and to raise and lower the vehicle. **IT IS NOT MADE TO HOP OR JUMP!** If you want to hop or jump, hydraulics are a better choice. This abuse will result in bent piston rods, broken shock mounts, and destroyed bushings. This is a non warrantable situation.
4. Do not let the ShockWave bellows rub on anything. Failure will result. This is a non warrantable situation.
5. The ShockWave product has been field tested on numerous vehicles as well as subjected to many different stress tests to ensure that there are no leakage or durability problems. Failures have been nearly nonexistent unless abused as described above. If the Shockwave units are installed properly and are not abused, they will last many, many years. ShockWave units that are returned with broken mounts, bent piston rods, destroyed bumpstops or bushings, or abrasions on the bellows will not be warrantied.



### Shock Adjustment

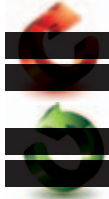
#### Shock adjustment 101- Single Adjustable

##### Rebound Adjustment:

How to adjust your new shocks.

The rebound adjustment knob is located on the top of the shock absorber protruding from the eyelet.

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



-Begin with the shocks 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. **CONTINUE ON NEXT PAGE.**

##### 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