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Part # 12103510
67-70 Mustang Front SA CoilOvers
For Use w/ Upper StrongArms

Shock Assembly:

- | | | |
|---|----------|-------------------------------------|
| 2 | 24129999 | 2.6" Stroke single adjustable shock |
| 2 | 70008649 | 2" threaded stud top |
| 2 | 90001628 | .5" I.D. bearing |
| 4 | 90001995 | bearing snap ring |

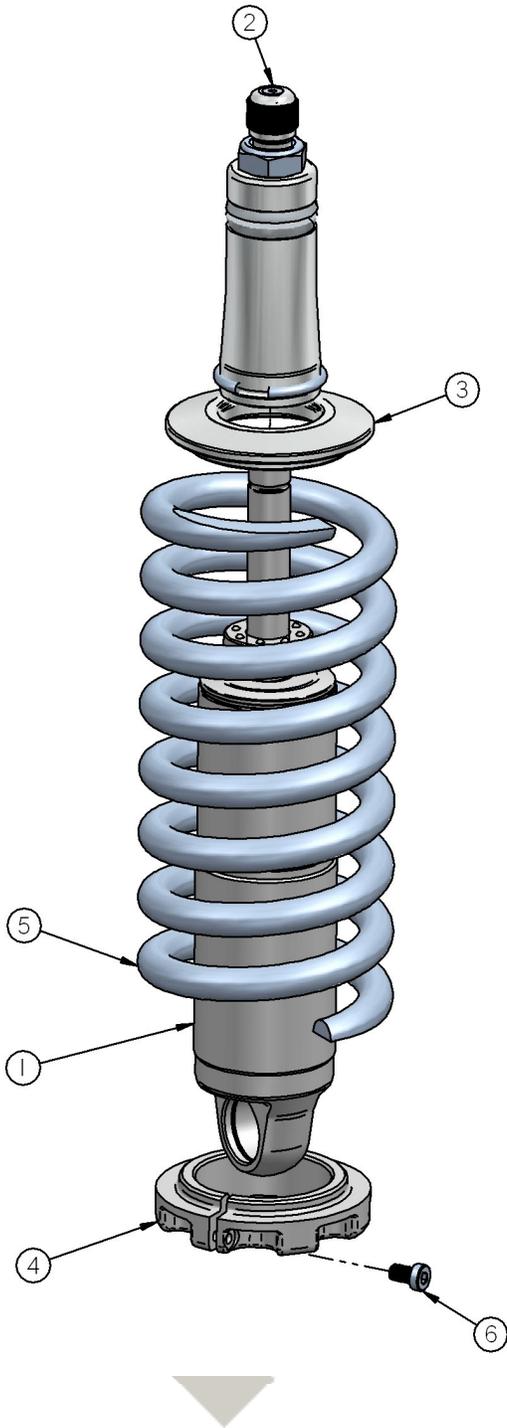
Components:

- | | | |
|---|----------|--|
| 2 | 59080700 | Coil spring – 8" long / 700 # rate |
| 2 | 90002312 | 2" stud top base |
| 2 | 90002222 | Spring retainer kit (included upper and lower spring retainer, screw & clip) |
| 2 | 90001902 | Aluminum cap for Delrin ball |
| 2 | 90001903 | Delrin ball upper half |
| 2 | 90001904 | Delrin ball lower half |
| 2 | 90001645 | Upper Shockwave mount |
| 2 | 90000506 | Aluminum Upper plate |

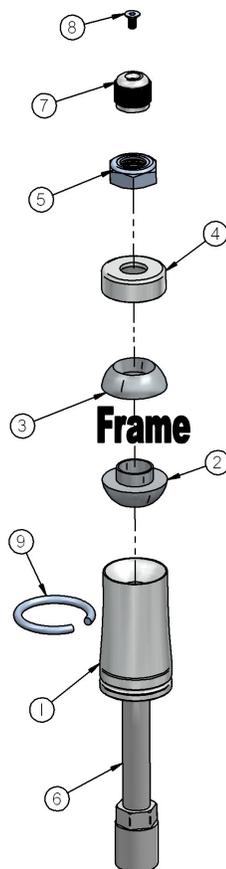
Hardware:

- | | | | |
|---|----------|-----------------------------|----------------------------|
| 2 | 99562003 | 9/16" SAE Nylok jam nut | Stud top hardware |
| 6 | 99311012 | 5/16" x 1" USS Flange bolts | Upper mount to strut tower |

COILOver

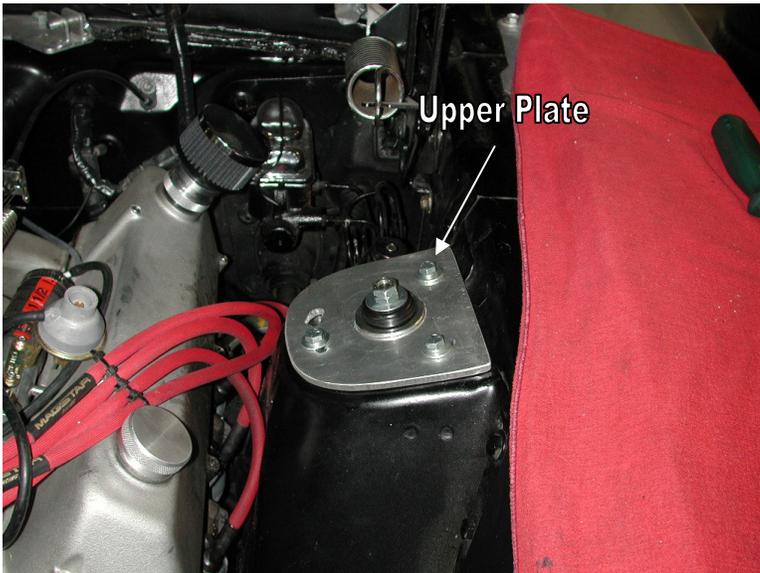


1. Impact Forged, Monotube shock
2. Rebound adjustment knob (SA Only)
3. Upper coil spring retainer
4. Lower coil spring retainer
5. High tensile coil spring
6. Set screw



1. Stud top base
2. Lower Delrin ball half
3. Upper Delrin ball half
4. Aluminum cap
5. 9/16" Nylok jam nut
6. Threaded stud
7. Adjustment knob (SA Only)
8. Screw
9. Snap ring

COILOver



1. Place the upper plate on top of the strut tower. While holding the upper Shockwave mount up to the bottom of the strut tower, fasten the assembly with three 5/16" x 1" flange bolts.



2. Place the stud up through the upper mount. (See diagram)
3. Attach the bottom of the shock to the upper arm w/ the hardware supplied w/ the upper arm.

Ride Height

We have designed most cars to have a ride height of about 2" lower than factory. To achieve the best ride quality & handling, the shock absorber needs to be at 40-60% overall travel when the car is at ride height. This will ensure that the shock will not bottom out or top out over even the largest bumps. Measuring the shock can be difficult, especially on some front suspensions. Measuring overall wheel travel is just as effective and can be much easier. Most cars will have 4-6" of overall wheel travel. One easy way to determine where you are at in wheel travel is to take a measurement from the fender lip (center of the wheel) to the ground. Then lift the car by the frame until the wheel is just touching the ground, re-measure. This will indicate how far you are from full extension of the shock. A minimum of 1.5" of extension travel (at the wheel) is needed to ensure that the shock does not top out. If you are more than 3" from full extension of the shock then you are in danger of bottoming out the shock absorber.

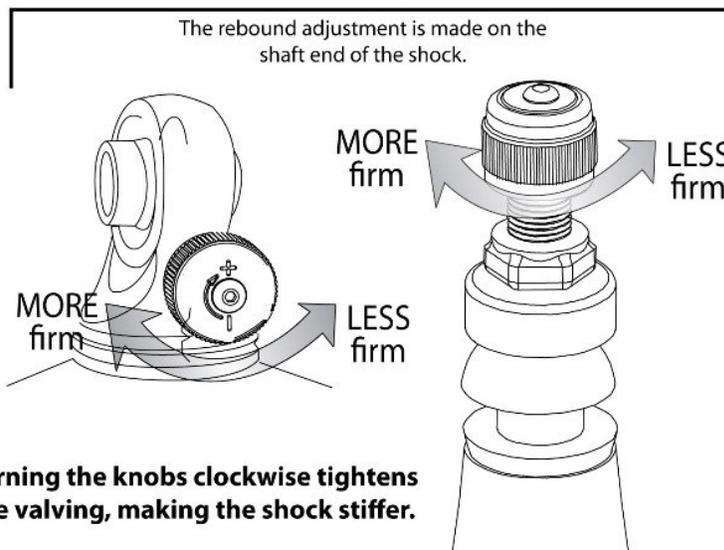
Adjusting Spring Height

When assembling the CoilOver, screw the spring retainer tight up to the spring (0 preload). After entire weight of car is on the wheels, jounce the suspension and roll the car forward and backward to alleviate suspension bind.

- If the car is too high w/ 0 preload then a smaller rate spring is required. Although threading the spring retainer down would lower the car, this could allow the spring to fall out of its seat when lifting the car by the frame.
- If the car is too low w/ 0 preload, then preload can then be added by threading the spring retainer up to achieve ride height. On 2.6" - 4" stroke shocks, up to 1.5" of preload is acceptable. On 5-7" stroke shocks, up to 2.5" of preload is acceptable. If more preload is needed to achieve ride height a stiffer spring rate is required. Too much preload may lead to coil bind, causing ride quality to suffer.

Shock Adjustment Instructions

Rebound Adjuster



Rebound is the force required to open or "expand" the shock absorber back to its original position.

Adjusters knobs on a ring mount have 30 clicks of adjustment. On a stud top mount there are 20 clicks of adjustment.

Because of the fine adjustment range RideTech recommends adjusting 3-4 clicks minimum when making a shock valve change.

All RideTech Shocks are shipped from the factory at the FULL SOFT position.