



350 S. St. Charles St. Jasper, In. 47546

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[www.ridetech.com](http://www.ridetech.com)

**Part # 11410298**

**00-06 Tahoe/Yukon 2WD Air Suspension System**

**Front Components:**

|   |          |                            |
|---|----------|----------------------------|
| 1 | 11412401 | Front HQ Series ShockWaves |
|---|----------|----------------------------|

**Rear Components:**

|   |          |                       |
|---|----------|-----------------------|
| 1 | 11414099 | Rear CoolRide Kit     |
| 1 | 11410701 | RQ Series Rear Shocks |



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**Part # 11412401**  
**00-06 Tahoe/Yukon/Suburban Front HQ Series Shockwaves**

**Shockwave Assembly:**

|   |          |                                            |
|---|----------|--------------------------------------------|
| 2 | 24149999 | 4" stroke HQ Series shock                  |
| 2 | 24090399 | 6" diameter rolling sleeve bellow assembly |
| 2 | 70008913 | Locking ring                               |
| 2 | 90002024 | 1.7" Ring mount                            |
| 4 | 90001628 | .5" I.D. bearing                           |
| 8 | 90001995 | Snap ring                                  |

**Components:**

|   |          |                                  |
|---|----------|----------------------------------|
| 4 | 90009982 | Upper and lower Shockwave mounts |
| 1 | 90000281 | Driver's side lower plate        |
| 1 | 90000282 | Passenger's side lower plate     |
| 4 | 90002298 | Aluminum spacer                  |
| 2 | 90000359 | Stepped washer                   |

**Hardware:**

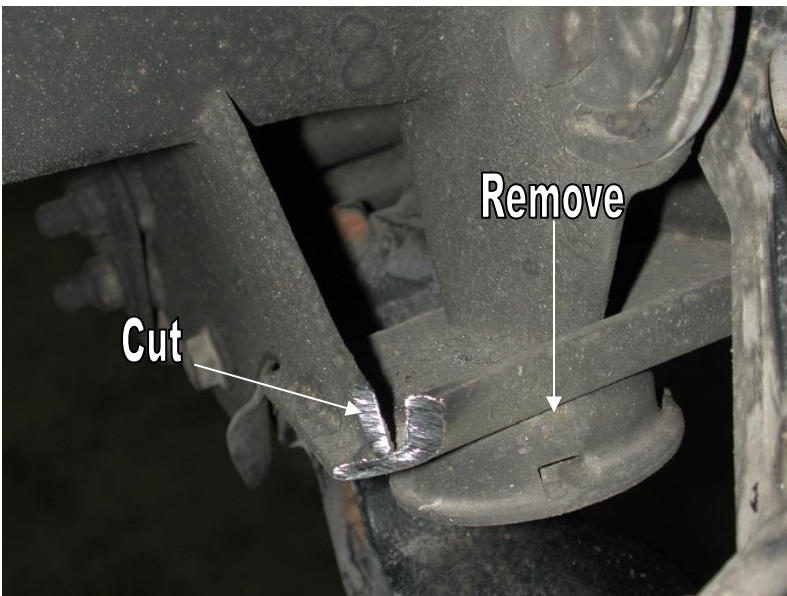
|   |          |                                 |                      |
|---|----------|---------------------------------|----------------------|
| 4 | 99501010 | 1/2" x 2 1/4" SAE bolt gr. 8    | upper & lower mounts |
| 4 | 99502003 | 1/2" SAE Nylok jam nut          | upper & lower mounts |
| 4 | 99501018 | 1/2" x 1 1/2" USS carriage bolt | upper mount to frame |
| 4 | 99502001 | 1/2" USS Nylok nut              | upper mount to frame |
| 4 | 99503003 | 1/2" USS flat washer            | upper mount to frame |
| 2 | 99081001 | M8 x 140mm bolt                 | sway bar end link    |

# SHOCKwave<sup>®</sup>

by Air Ride Technologies

## Installation Instructions

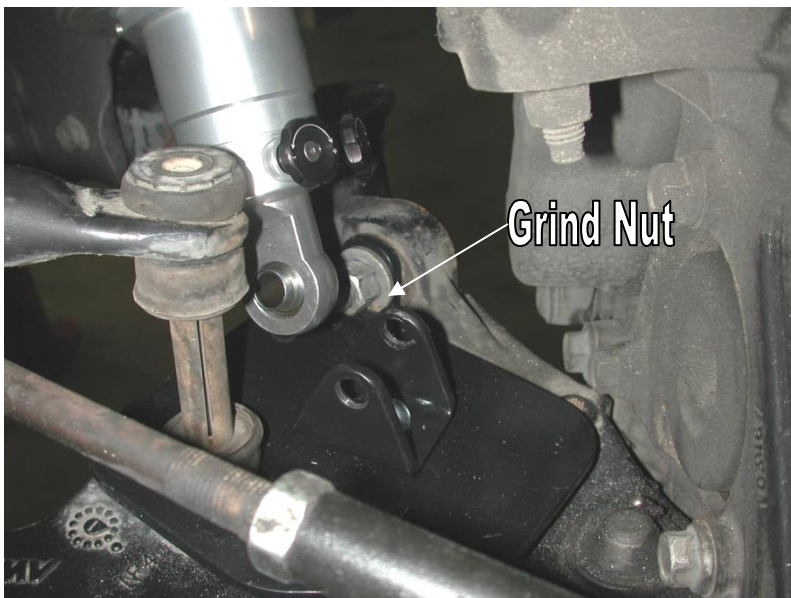
1. Raise and support vehicle at a safe, comfortable working height. Let the front suspension hang freely
2. Remove the torsion bar and shock absorber. Refer to a factory service manual for proper disassembly procedure. Hang on to the factory shock bolts; they will be reused in mounting the lower Shockwave plate.



3. To achieve proper clearance of the Shockwave a small corner of the bump stop bracket must be trimmed. This can be done with a cut off wheel.



4. To reach maximum drop the bump stop and bump stop cup must be removed. This can be done with a cut off wheel. This picture shows the bump stop bracket after removing the cup.



5. Place the lower Shockwave plate on top of the lower arm; they are stamped driver and passenger side. Position it so that the tab lines up with the factory shock mount and the larger of the other two holes will align with the sway bar hole.

6. Grind one side of the factory shock nut flat so that it will align with the hole in the plate. Then use the factory shock bolt to secure the plate to the lower arm.

7. The sway bar end link must be shortened by 2 ¼". A new bolt is supplied.



8. The air fitting location can be rotated by twisting the bellow while holding the shock.

9. Place the step washer on top of the coil spring pocket with the step resting inside the factory shock hole. Then hold the Shockwave mount (U bracket) up to the frame while securing with a ½" x 1½" carriage bolt, Nylok and flat washer.



10. Bolt the Shockwave to the upper mount using a 2 ¼" x ½" bolt and Nylok. Note that the aluminum spacer is located to the rear of the Shockwave bearing.

11. The lower Shockwave mount is assembled much like the top except the aluminum spacer goes to the front of the Shockwave bearing.

12. Double-check Shockwave clearances through full suspension travel.

13. Driving height on this Shockwave is around 13" from center eye to center eye. This should occur around 110psi but will vary to driver preference.



## 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 than 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.**



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**Part # 11414099**

**00-04 Tahoe/Yukon Rear bag, bracket kit**

|   |          |                       |
|---|----------|-----------------------|
| 2 | 90001102 | F0335 Airsprings      |
| 2 | 90000415 | A459-1 lower brackets |
| 2 | 90000276 | A234 upper brackets   |
| 2 | 90000224 | A168 Washers          |

**Hardware:**

|   |          |                       |                                      |
|---|----------|-----------------------|--------------------------------------|
| 2 | 99435004 | 7/16" x 4 1/2" studs  | upper mount (cut off after mounting) |
| 2 | 99432001 | 7/16" USS nyloc nuts  | upper studs                          |
| 2 | 99433002 | 7/16" flat washers    | upper studs                          |
| 4 | 99372005 | 3/8" SAE nyloc nuts   | upper airspring mounting             |
| 4 | 99371001 | 3/8" x 3/4" USS bolts | lower airspring mount                |
| 4 | 99373005 | 3/8" lock washers     | lower airspring mounting             |
| 8 | 99373003 | 3/8" SAE flat washers | upper & lower airspring mounting     |
| 2 | 99000003 | 3" Hose Clamps        | attach lower brackets to axle tube   |

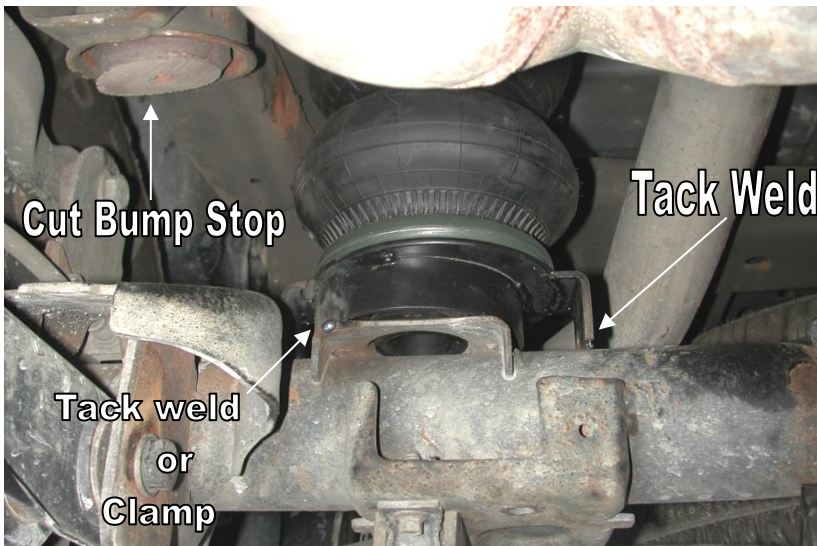


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1. Raise and support vehicle at a safe and comfortable working height.
2. Support the axle then remove the coil spring and shock. Refer to service manual for proper disassembly procedure.



3. Apply thread sealant to an elbow air fitting and screw it into the air spring.

4. Place the upper cup bracket on top of the air spring and tighten with two 3/8" nyloc nuts and flat washers. Screw the 4 1/2" stud into the nut in the bottom of the cup.

5. Bolt the lower bracket to the bottom of the air spring using two 3/8" x 3/4" bolts, flat washers and nylocs. The larger tab will be on the same side of the air spring as the air fitting access hole in the upper bracket.



6. One of the convolutions of the bump stop must be removed to allow maximum drop. This picture shows it after cutting.



7. Place the large washer on top of the frame over the hole in the upper coil spring pocket.

8. Hold the air spring assemble up to the pocket with the stud protruding through the large washer. Secure the assembly with a 7/16" nyloc nut and flat washer. Cut excess threads off of stud.

9. The lower bracket will seat into the lower coil spring pocket. It can either be secured with the 3" hose clamp or by tack welding it to the axle.



10. For necessary clearance and optimum effectiveness the sway bar end link must be shortened by approx. 1" so that it is 7 3/4" long from center eye to center eye. This 1" section will have to be cut from the center of the link and then welded back together.

11. Install the new shocks in place of the factory units.

12. Double-check air spring clearance through full suspension travel. **Rubbing will cause air spring failure and is not warrantable.**

13. The driving height on this air spring is approximately 5" tall, but will vary to driver preference.



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**Part # 11410701**  
**00-06 Tahoe/Yukon HQ Series Rear Shock Kit**

**Shock:**

|   |          |                                |
|---|----------|--------------------------------|
| 2 | 22989999 | HQ Smooth Body Shock Cartridge |
| 4 | 70011138 | 3/4" ID Shock Bushing          |
| 8 | 70011186 | 9/16" ID Shock Sleeve Half     |