



350 S. St. Charles St. Jasper, In. 47546  
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[www.ridetech.com](http://www.ridetech.com)

**Part # 11220197**  
**64-67 GM "A" Body Level 1 Air Suspension System**

**Front Components:**

- |   |          |   |
|---|----------|---|
| 1 | 11221099 | Front CoolRide Kit for Stock Lower Arms |
| 1 | 11220501 | HQ Series Front Shock Kit w/ Mounts     |

**Rear Components:**

- |   |          |                       |
|---|----------|-----------------------|
| 1 | 11224099 | Rear CoolRide Kit     |
| 1 | 11220701 | HQ Series Rear Shocks |



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**Part # 11221099**  
**64-72 GM "A" Body Front CoolRide Kit**

**Components:**

|   |          |                                    |
|---|----------|------------------------------------|
| 2 | 90006781 | Front air spring – 267c            |
| 1 | 90000370 | Driver side lower air spring plate |
| 1 | 90000371 | Passenger side lower front plate   |
| 2 | 90000372 | Upper air spring mount             |

**Hardware:**

|    |          |                        |  |
|----|----------|------------------------|--|
| 2  | 99435001 | 7/16" x 6" stud        | Upper air spring mount to frame                |
| 2  | 99433002 | 7/16" SAE flat washer  | Upper air spring mount to frame                |
| 2  | 99432001 | 7/16" USS Nylok        | Upper air spring mount to frame                |
| 8  | 99372002 | 3/8" USS Nylok         | Air spring to upper mount / lower plate to arm |
| 2  | 99371001 | 3/8" x 3/4" USS bolt   | Air spring to lower mount                      |
| 4  | 99371004 | 3/8" x 1 1/4" USS bolt | Lower plat to arm                              |
| 2  | 99373005 | 3/8" lock washer       | Air spring to lower mount                      |
| 14 | 99373003 | 3/8" SAE flat washer   | Air spring mounts                              |

# COOL RiDE®

## Installation Instructions

1. Raise the vehicle to a safe and comfortable working height with the suspension hanging freely.
2. Remove the coil spring and shock absorbers. Refer to the factory service manual for proper disassembly procedures.



3. Apply thread sealant to the air fitting and screw it into the top of the air spring.

4. Place the upper cup bracket on top of the air spring and fasten with two 3/8" nylok nuts and flat washers. Thread the 7/16 stud into the nut in the bottom of the cup.

5. Place the lower air spring bracket on the lower control arm, the large hole in the bracket will align with the sway bar hole on the lower arm.

6. The inner two holes must be drilled with a 3/8" bit. Fasten with two 3/8 bolts, Nylok nuts and flat washers.



7. Place the air spring assembly into the coil spring pocket with the stud sticking through the factory shock hole in the frame.

8. Mark the outside of the coil spring pocket where the air spring rubs. Remove the air spring and trim the pocket, a die grind with a cutoff wheel works well.

9. Reinstall the air spring assembly (the air line can be routed at this time) and secure with a 7/16" Nylok nut and flat washer on top of the frame.



11. Ride height on this air spring is approximately 5" tall. This may vary to driver preference.



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**Part # 11220501**  
**64-72 GM "A" Body Front HQ Series Shock Kit**  
For Use w/ CoolRide

**Shock:**

- |   |            |                                      |
|---|------------|--------------------------------------|
| 2 | 986-10-036 | 4.75" Stroke Eye Top Shock Cartridge |
| 4 | 70011138   | 3/4" ID Shock Bushing                |
| 4 | 90002102   | 1/2" ID Inner Sleeve                 |

**Components:**

- |   |          |                             |
|---|----------|-----------------------------|
| 2 | 90000011 | Weld-on upper shock bracket |
| 2 | 90000034 | Lower shock bracket         |

**Hardware:**

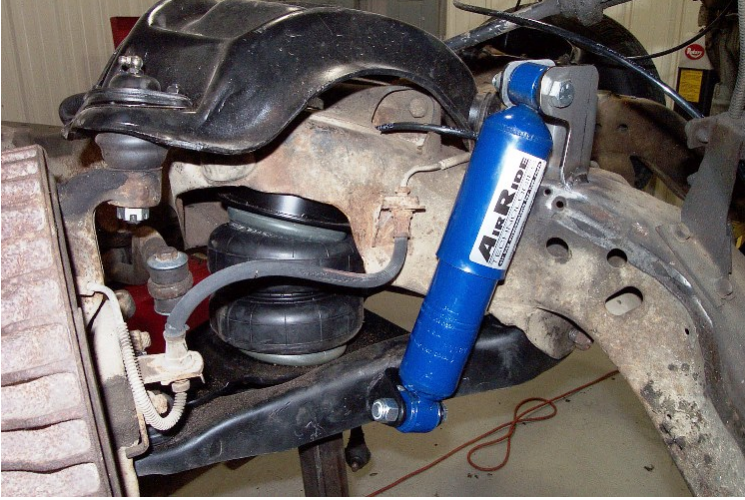
- |   |          |                        |                        |
|---|----------|------------------------|------------------------|
| 4 | 99501003 | 1/2" x 2 1/2" USS bolt | Shock to upper bracket |
| 4 | 99502001 | 1/2" USS Nylok nut     | Shock to upper bracket |
| 2 | 99371004 | 3/8" x 1 1/4" USS bolt | Lower bracket to arm   |
| 2 | 99372002 | 3/8" USS Nylok nut     | Lower bracket to arm   |
| 4 | 99373003 | 3/8" SAE flat washer   | Lower bracket to arm   |

**Shock Dimensions:**

- |             |         |
|-------------|---------|
| Compressed: | 10 1/8" |
| Extended:   | 14 7/8" |

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## Installation Instructions



1. The upper shock mount must be welded to the frame. It may need to be cut down to match the stroke of the air spring and suspension. Make sure that when the suspension is fully compressed that the shock is about  $\frac{1}{4}$ " from being fully compressed.
2. Tack weld the mount during initial fitment. The lower mount will be installed right behind the steer stop on the lower control arm.
3. Check to make sure the shock does not bottom out when the suspension is fully compressed. If the shock bottoms out it could damage the shock or shock mounts. Also check turning radius with the wheel. Once the final location is determined fully weld the upper mount to the frame.



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**Part # 11224099**  
**64-72 GM "A" Body Rear CoolRide Kit**

**Components:**

|   |          |   |
|---|----------|---|
| 2 | 90002018 | 91mm rolling sleeve air spring                      |
| 2 | 90002284 | Large cotter pin                                    |
| 2 | 90000504 | Stud for cotter pin (screws into top of air spring) |
| 2 | 90000709 | Upper spring retainer washer (4" o.d. x .75" i.d.)  |
| 2 | 90000291 | Lower spring retainer washer (2.5" o.d. x .5" i.d.) |
| 2 | 90000548 | Large lower air spring roll plate                   |

**Hardware:**

|   |          |                      |                    |
|---|----------|----------------------|--------------------|
| 2 | 99371003 | 3/8" x 1" USS bolt   | Air spring to axle |
| 2 | 99373003 | 3/8" SAE flat washer | Air spring to axle |
| 2 | 99373005 | 3/8" lock washer     | Air spring to axle |

# COOLRiDE®

## Installation Instructions

1. Raise and support vehicle at a safe and comfortable working height.
2. Support the axle then remove coil spring and shock. Refer to service manual for proper disassembly procedure. Installing one side at a time will make the installation easier.



3. Apply thread sealant to a 90 degree air fitting and screw it into the top of the air spring.
4. Screw the mounting pin into top of the air spring.



5. Place the 4" diameter washer on top of the frame, above the coil spring pocket. Raise the air spring up to the spring pocket with the pin sticking through the washer. Secure with the large cotter key.





6. Place the large lower air spring plate over the lower coil spring retainer.

7. Pull the piston down out of the air spring and seat it on the lower coil spring retainer. The center hub in the piston should fit inside the retainer.

8. Some retainers may require trimming to allow the air spring piston to slide into the retainer.



9. Secure the air spring to the axle using a 3/8" x 1" bolt, lock washer, flat washer, and the 2 1/2" washer.

10. Inflate the air spring and check air spring clearance. **If the spring is allowed to rub on anything it will cause failure, this is not a warrantable situation.**

14. This system will retain the factory bump stop.

15. Driving height on this air spring is approximately 8.5" tall, but may slightly vary to driver preference.



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**Part # 11220701**  
**64-72 GM "A" Body HQ Series Rear Shock Kit**

**Shock:**

|   |            |                                      |
|---|------------|--------------------------------------|
| 2 | 986-10-020 | 7.55" Stroke Eye Top Shock Cartridge |
| 2 | 70011139   | 5/8" ID Shock Bushing                |
| 2 | 70011138   | 3/4" ID Shock Bushing                |
| 2 | 90002102   | 1/2" ID Shock Sleeve                 |
| 2 | 90002068   | Wide Trunnion                        |

**Components:**

|   |          |                |
|---|----------|----------------|
| 2 | 90001619 | Shock bolt kit |
|---|----------|----------------|

**Hardware:**

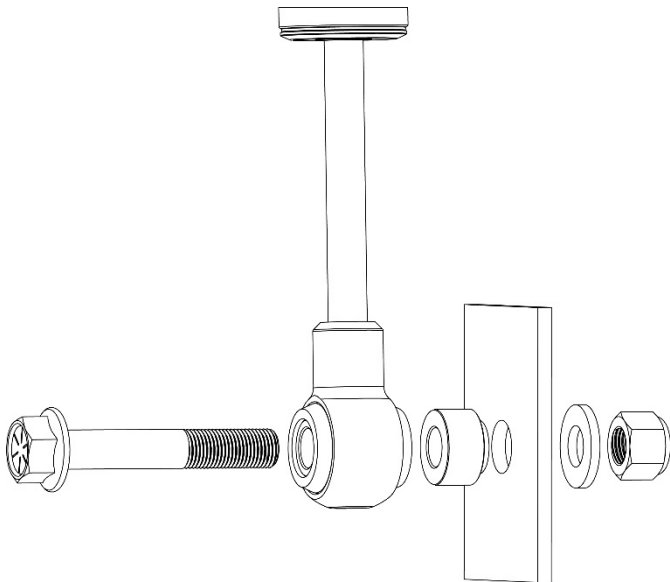
|   |          |                       |                |
|---|----------|-----------------------|----------------|
| 4 | 99311001 | 5/16" x 1" USS bolt   | Shock to frame |
| 8 | 99313002 | 5/16" SAE flat washer | Shock to frame |
| 4 | 99312003 | 5/16" USS Nylok nut   | Shock to frame |

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## Installation Instructions



1. Attach the upper T-bar to the frame in the oem location using the supplied 5/16 x 1" USS bolts, washers and Nylok nuts.



2. Attach the shock to the axle using the new shock bolt kit supplied.

## Shock adjustment 101- Single Adjustable

### Rebound Adjustment:

How to adjust your new shocks.

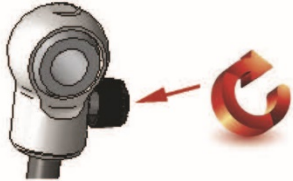
The rebound adjustment knob is located on the top of the shock absorber protruding from the eyelet or stud top. You must first begin at the ZERO setting, then set the shock to a street setting of 12.



-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 12 clicks. This sets the shock at 12. (settings 21-24 are typically too soft for street use).

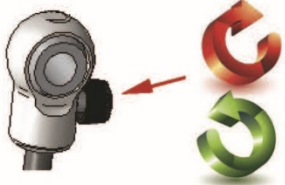
### Take the vehicle for a test drive.



-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.**