Part # 12120199
79-93 Mustang Level 1 Air Suspension System

Front Components:
1 12131099   Front CoolRide Kit for Stock Lower Arms

Rear Components:
1 12134099   Rear CoolRide Kit
1 12130709   RQ Series Rear Shocks

Compressor System:
1 30154000   3 gallon RidePro Compressor Kit (Analog Gauges)
Part # 12131099
79-93 Mustang front CoolRide system

Components:

2 90006781  Air springs – 6.5” diameter, double convoluted, ¼” port
2 90000407  Upper cup brackets (2 ½” tall - Run airline toward inside of car)
1 90000405  Lower air spring mounting plate (drivers side)
1 90000406  Lower air spring mounting plate (pass. side)

Hardware:

2 99435005  7/16” x 3 ¾” stud  upper cup mounting (may need to cut to 3 ½”)
2 99432001  7/16” Nylok nut  upper cup mounting
2 99433002  7/16” SAE flat washer  upper cup mounting
6 99371004  3/8” x 1 ¼” USS bolt  lower mounting plates to a-arm
2 99371003  3/8” x 1” USS bolt  lower airspring mounting
18 99373003  3/8” SAE flat washers  12 for lower plate mounting / 6 for airspring
10 99372002  3/8” USS Nylok nut  6 for lower plate mounting / 4 for airspring
2 99373005  3/8” lock washer  lower airspring to plate
Installation Instructions

1. Raise the vehicle to a safe and comfortable working height, with the suspension hanging freely.
2. Following the factory service manual instructions, remove the coil springs from the car.

3. Place the lower air spring plate on top of the lower control arm. They are labeled D for driver and P for passenger.

4. The plate will be located by the sway bar end link hole in the lower control arm. The other three holes must be drilled with a 3/8” bit and fastened with 3/8” x 1 ¼” bolts, Nylok nuts and flat washers.

5. Apply thread sealant to the a 90 degree air fitting and screw it into the top of the air spring.

6. Place the upper cup bracket on top of the air spring and secure with two 3/8” Nylok nuts and flat washers.

7. Cut 1” off of the 7/16” all thread then screw it into the nut in the bottom of the upper cup bracket.
9. Fasten the air spring to the lower plate using a 3/8” x 1” bolt, lock washer and flat washer.

10. Reattach the sway bar end link to the lower control arm.

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

12. Ride height on this air spring is approximately 5” tall. This may vary to driver preference.
Part # 12134099
79-03 Mustang Rear CoolRide Kit

Components:
2 90001176 Tall single convoluted air spring
2 90000345 Rear upper cup bracket
4 90000344 Bracket retainer plate
2 90000343 Lower air spring cup bracket

Hardware:
2 99435005 7/16” x 3 ¾” stud Upper cup to frame
2 99432001 7/16” Nylok nut Upper cup to frame
2 99433002 7/16” SAE flat washer Upper cup to frame
2 99371006 3/8” x 1 ½” USS bolt Air spring to lower cup
6 99373003 3/8” SAE flat washer 2 for lower airspring/ 4 for upper air spring
4 99372002 3/8” USS Nylok nut Air spring to upper cup
2 99373005 3/8” lock washer Air spring to lower cup
1. Raise car to a safe comfortable working height. Support the car with proper jack stands under the body of the car to let the axle hang freely.

2. Disconnect shock absorbers to let the axle drop far enough to remove coil springs. You may need a floor jack to support the axle as the shocks are removed. It may also be necessary to remove the brake line bracket to allow the axle to drop down.

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

4. Bolt the upper cup bracket to the top of the air spring and secure with two 3/8” Nylok nuts and flat washers.

5. Screw the 7/16” all thread into the nut in the bottom of the cup.

6. Place the air spring assembly into the coil spring pocket with the stud sticking up through the frame. Slide the retaining plate through the hole in the frame rail and over the 7/16” stud. Use a 7/16” Nylok and flat washer to clamp the air spring assembly to the frame.
7. Place the lower air spring bracket over the coil spring retainer on the lower arm.

8. Use another retaining plate along with a 3/8” x 1 ½” to attach the air spring to the lower control arm.

9. Double check air spring clearance through full suspension travel. **Allowing the air spring to rub will cause failure and is not a warrantable situation.** Pay special attention to the brake line to air spring clearance.

10. Ride height on this air spring is approximately 5” tall, this may vary to driver preference.

11. On 79-93 Models the body must be trimmed to ensure that it does not rub the air spring.

12. On 79-93 Models a hole must be cut in the inner fender well to access the top of the pocket to attach the air spring to the car.
Part # 12130709
79-04 Mustang Rear RQ Series Shock Kit

Shock:
2  22499999  RQ Smooth Body Shock Cartridge
2  70011138  3/4” ID Shock Bushing
4  70011193  12mm ID Shock Sleeve

Components:
4  70011140  Stem Bushings
4  70011141  Stem Washers

Hardware:
2  99372005  3/8”- 24 Nyloc Nut  Upper Shock Stud

Properly Tightened  
Over Tightened
Part # 30154000
4000 Series RidePro 4 Way Compressor System
3 Gallon Tank – Analog Gauges

Components:
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<thead>
<tr>
<th>Quantity</th>
<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
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<td>31920020</td>
<td>Thomas 319 Compressor</td>
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<tr>
<td>1</td>
<td>31194000</td>
<td>RidePro 4 Way analog control panel with rocker switches</td>
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<tr>
<td></td>
<td></td>
<td>(Black Face)</td>
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<tr>
<td>1</td>
<td>31913100</td>
<td>3 gallon aluminum tank</td>
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<tr>
<td>1</td>
<td>31934001</td>
<td>RidePro 4 Way valve block</td>
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<tr>
<td>1</td>
<td>31980005</td>
<td>Pressure switch – 135 On / 150 Off</td>
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Wiring:
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<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>31900022</td>
<td>30 amp relay</td>
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<tr>
<td>1</td>
<td>90001924</td>
<td>Fuse holder</td>
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<td>1</td>
<td>90001922</td>
<td>20 Amp fuse</td>
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<td>2</td>
<td>31900036</td>
<td>Wiring harness - Control panel to valve</td>
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<td>3</td>
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<td>10-24 x 1” phillips screw</td>
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<tr>
<td>3</td>
<td>99102002</td>
<td>10-24 Nylok nut</td>
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<td>3</td>
<td>99103001</td>
<td>#10 SAE flat washer</td>
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<tr>
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<td>#10 x 5/16 ring terminal</td>
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<td>90001913</td>
<td>12-10 butt connector</td>
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<td>2</td>
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<td>Female spade connector</td>
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Airline & Fittings:
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<th>Part Number</th>
<th>Description</th>
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<tbody>
<tr>
<td>2</td>
<td>31940002</td>
<td>1/4” DOT airline - 30 ft. roll - valve block to gauges</td>
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<tr>
<td>2</td>
<td>31940000</td>
<td>1/8” DOT airline - 25 ft. roll - valve block to gauges</td>
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<td>1</td>
<td>31952150</td>
<td>1/8”npt x 1/4” tube female straight - compressor</td>
</tr>
<tr>
<td>1</td>
<td>31957003</td>
<td>2” Brass Nipple - compressor</td>
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<tr>
<td>6</td>
<td>31954201</td>
<td>1/4” npt x 1/4” tube Elbow airline fitting</td>
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<tr>
<td>7</td>
<td>31954000</td>
<td>1/4” npt x 1/4” tube Straight airline fitting</td>
</tr>
<tr>
<td>4</td>
<td>31952000</td>
<td>1/8” npt x 1/8” tube Straight fitting - manifold to gauge</td>
</tr>
<tr>
<td>1</td>
<td>31957004</td>
<td>1/4” npt plug - plug unused supply port</td>
</tr>
<tr>
<td>1</td>
<td>31959301</td>
<td>1/4” npt check valve</td>
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</table>

THE CHECK VALVE SUPPLIED SCREWS INTO THE AIR TANK WITH AN AIR FITTING THREADING INTO IT. THE COMPRESSOR LINE WILL FEED INTO THE CHECK VALVE.
ARC4000 Compressor System Instructions

These are some general guidelines to follow when installing your new RidePro air control system. Depending on the vehicle there are many different ways to plumb the system. Start out by planning a lay out of where you want everything to be mounted. Typically we try to keep the compressor, solenoids, tank, and sending units in a central location, but they can be separated to suit your needs.

Mounting the Compressor/ Pressure Switch

- **Remove the negative battery cable before beginning installation.**
- All of our compressors are sealed for moisture and dust resistance so they can be mounted anywhere on the vehicle. Although it is best to mount it in a place out of direct contact with rain and snow. It is OK to mount it underneath the vehicle but keep it inside the frame rails away from water and debris thrown off the tire.
- This is a dry compressor; therefore it is maintenance free and can be mounted in any position.
- It is best if mounted to something solid to reduce vibration and noise. If mounting it to sheet metal or the bed of a truck, use sound deadening material between the compressor and the mounting surface.
- Use the rubber grommets supplied on the feet of the compressor to reduce vibration.
- A template is supplied to aid in drilling the holes. Check template with compressor before drilling the holes.
- Apply thread sealant to the pressure switch and compressor T and screw into the tank.
- One spade of the pressure switch will connect to power the other to the red wire on the compressor.

Mounting the Air Tank

- The air tank can be mounted anywhere on the vehicle in any position.
- A template is supplied to aid in drilling the holes. Check the template with the tank before drilling the holes.
- If your air system is used frequently you may want to remove the tank once a season to drain any excessive accumulation of water.

Mounting the RidePro Air Valves

- The valves, like the compressor, are sealed and can be mounted in the same locations. Although if the vehicle will be exposed to freezing temperatures it is a good idea to mount them in the engine bay if possible to reduce the possibility of freezing.
- They can be mounted in any position.
- Mount the valves higher than the tank to avoid moisture build up. This could cause the air pressure sensors to give a faulty reading.
- Attach the ground strap to a good, clean ground (preferably the frame).
- The exhaust port will be left open.
- The valve is held closed with the pressure in the tank. If tank pressure drops below air spring pressure they will equalize deflating all 4 air springs.

**Wiring Harness**
- Red Wire- The red wire on the harness will connect to 12 volt switched.
- Gray Wire- This power for the light in the switch- this wire goes to the light circuit(dash lights) of the vehicle. This wire needs 12 volt when the lights are on or the key is on. The gauge light should be hooked to the same circuit as this wire.
- Black Wire- This wire is ground for the light in the switch. It goes to a good ground.

**Routing the Airline and Fittings**
- Make all airline cuts with a razor or tubing cutter. It must be clean and straight or it will not seal.
- All fittings are DOT approved push-to-connect style. They are very simple to use and are reusable. Firmly push the airline into the fitting to attach. To release the airline pull the collar on the fitting back towards the fitting and pull the airline out.
- Use thread sealant on all fittings.
- Do not over tighten the fittings. This could result in breaking the fitting or damaging the air spring.
- All of our airlines are DOT approved so they are very strong. But keep them away from any sharp edges. Also when passing through a hole in the frame use a grommet.
- Keep away from intense heat including mufflers and exhaust manifolds.
- Use zip ties or other fasteners to secure the airline.

*Note:* The Illumination and Ground wires do not have to be hooked up for the switches to work. They do have to be hooked up for the lights in the switches to work.