PARTS LIST

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR SPRING</td>
<td>6781</td>
<td>3/8&quot;-16 X 1&quot; HEX BOLT</td>
</tr>
<tr>
<td>UPPER BRACKET</td>
<td>5302</td>
<td>3/8&quot;-16 X 1-1/2&quot; HEX BOLT</td>
</tr>
<tr>
<td>LOWER BRACKET</td>
<td>5304</td>
<td>3/8&quot;-16 FLANGE LOCK NUT</td>
</tr>
<tr>
<td>LOWER BRACE</td>
<td>5303</td>
<td>3/8&quot;-16 X 3/4&quot; HEX BOLT</td>
</tr>
<tr>
<td>BRACKET STRAP</td>
<td>1163</td>
<td>3/8&quot;-16 X 3&quot; CARRIAGE BOLT</td>
</tr>
<tr>
<td>BAIL CLAMP</td>
<td>3077</td>
<td>3/8&quot;-16 X 1-1/2&quot; CARRIAGE BOLT</td>
</tr>
<tr>
<td>18 FT. TUBING</td>
<td>0938</td>
<td>3/8&quot; FLAT WASHER</td>
</tr>
<tr>
<td>PUSH-TO-CONNECT INFLATION VALVE</td>
<td>3032</td>
<td>5/16&quot; FLAT WASHER</td>
</tr>
<tr>
<td>1/4 NPT STRAIGHT FITTING</td>
<td>3046</td>
<td>NYLON TIE WRAP</td>
</tr>
<tr>
<td>THERMAL SLEEVE</td>
<td>0899</td>
<td>CAUTION TAG</td>
</tr>
</tbody>
</table>

WARNING:
Do not inflate this assembly when it is unrestricted. The assembly must be restricted by the suspension or other adequate structure. Once installed, do not inflate beyond 100 psi. Improper use or over inflation may cause property damage or severe personal injury.

IMPORTANT!
For your safety and to prevent possible damage to your vehicle, do not exceed the maximum load recommended by the vehicle manufacturer (GVWR).
Although your Air Helper Springs are rated at a maximum inflation pressure of 100 psi, this pressure may allow you to carry too great a load on some vehicles. It is best to have your vehicle weighed once it is completely loaded and compare that weight to the maximum allowed. Check your vehicle owner’s manual or data plate on driver side door for maximum loads listed for your vehicle.
When inflating your Air Helper Springs, add air pressure in small quantities, checking pressure frequently during inflation. The spring requires much less air volume than a tire and, therefore, inflates much quicker.

TOOLS REQUIRED
(2) 9/16" END WRENCHES ELECTRIC DRILL
(2) 1/2" END WRENCHES 5/16" DRILL BIT
UTILITY KNIFE
NOTE: Both illustrations are of the left, or driver’s side, of the vehicle. Reverse any orientations when installing the right, or passenger’s side assembly.

KIT TO FRAME ASSEMBLY

3/8"-16 X 1-1/2" HEX HEAD BOLT

INSTALL THIS WASHER ON LEFT SIDE ONLY

3/8" LARGE WASHER

3/8"-16 HEX NUTS

FRAME

EXISTING HOLE FROM JOUNCE BUMPER REMOVAL

3/8" FLAT WASHER

3/8"-16 X 1" HEX BOLTS

3/8"-16 X 1-1/2" CARRIAGE BOLT

AIR SPRING

LOWER BRACKET

3/8"-16 X 1" AIR INLET

3/8"-16 X 3/4" HEX BOLT

3/8"-16 HEX NUTS

3/8"-16 X 3" CARRIAGE BOLT

ASSEMBLED AIR SPRING KIT

NOTE: Both illustrations are of the left, or driver’s side, of the vehicle. Reverse any orientations when installing the right, or passenger’s side assembly.

KIT TO FRAME ASSEMBLY

3/8"-16 X 1-1/2" HEX HEAD BOLT

INSTALL THIS WASHER ON LEFT SIDE ONLY

3/8" LARGE WASHER

3/8"-16 HEX NUTS

FRAME

EXISTING HOLE FROM JOUNCE BUMPER REMOVAL

3/8" FLAT WASHER

3/8"-16 X 1" HEX BOLTS

3/8"-16 X 1-1/2" CARRIAGE BOLT

AIR SPRING

LOWER BRACKET

3/8"-16 X 1" AIR INLET

3/8"-16 X 3/4" HEX BOLT

3/8"-16 HEX NUTS

3/8"-16 X 3" CARRIAGE BOLT

ASSEMBLED AIR SPRING KIT

NOTE: Both illustrations are of the left, or driver’s side, of the vehicle. Reverse any orientations when installing the right, or passenger’s side assembly.
**STEP 1—PREPARE THE VEHICLE**

Place the vehicle on a solid level surface. Remove negative battery cable. Take necessary safety precautions such as using wheel chocks when working on your vehicle. Remove the jounce bumpers and the driver side brake line clip, bolt, and nut as shown in Figure “B”. This vehicle does not have to be jacked up to install the kit.

**STEP 2—PRE-ASSEMBLE THE KIT**

Select one air spring and one upper bracket from your kit. Insert the 1-1/2” carriage bolt upward into square space in upper bracket. Attach the upper bracket to the air spring using the 3/8”-16 flange lock nuts. Install the brass air fitting into the air entrance hole and tighten securely to engage the orange thread sealant to ensure proper seal.

**LOWER BRACKET ASSEMBLY**

Select one lower bracket and one lower brace from your kit. Fasten the lower brace to the lower bracket using the 3/8”-16 x 1” hex bolts and lock nuts as shown in Figure “A”. Assemble the lower bracket assembly to the air helper spring using the 3/8”-16 x 3/4” hex bolt. Before tightening the 3/8”-16 hex bolt, rotate the air spring so that the outside vertical edge of the upper bracket is parallel with the front face of the lower bracket and brace assembly, see Figure “A”.

**STEP 3—INSTALLING THE ASSEMBLY TO THE VEHICLE**

Place the assembly on the vehicle by installing the upper bracket so that it lays against the outside of the frame rail. Insert the carriage bolt in the upper bracket to the existing hole in the frame rail from the jounce bumper removal. Attach with a 3/8”-16 flange lock nut. The lower brace will sit on the axle, and the lower bracket will rest on the jounce bumper pad, refer to Figure “A” and “C”. Push the lower bracket toward the leaf spring stack until it rests next to the leaf spring “U” bolts.

Attach the upper bracket to the frame rail using the 2 existing holes in the frame rail and the 3/8”-16 x 1-1/2” hex bolts, 3/8”-16 flange lock nuts, and 3/8” flat washers (flat washer used only for the larger hole in frame). NOTE: The break line clip shown in Figure “A” and “B” exists only on the driver's side of the vehicle. On the driver's side, the bolt will reattach the clip outside of the upper bracket as shown. The 3/8” flat washer on the outside of the frame rail is used only on the driver’s side to hold the brake line clip in place. No washer is used on the outside of the passenger’s side frame rail.

Install the ball clamp around the casting as shown in Figure “A”. Insert the ball clamp through the holes in the lower bracket as shown in Figure “A”. Install 3/8”-16 flange lock nuts and draw the lower bracket next to the leaf spring “U” bolts. Using the 3/8”-16 x 3” carriage bolts attach the bracket straps to the lower brace making sure the bracket straps are securing the kit assembly to the axle, refer to Figure “C”.

**STEP 4—INSTALLATION OF THE PASSENGER’S SIDE ASSEMBLY**

Follow steps 1-3 with reverse orientations for assembly and installation of the passenger's side assembly. (Note that on the right side (passenger side), the assembly will sit close to the heat shield located on the front of the axle.)

**STEP 5—INSTALL THE AIR LINE AND INFLATION VALVE**

Uncoil the airline tubing and cut it into two equal lengths. DO NOT FOLD OR KINK THE AIRLINE TUBING. Try to make the cut as square as possible. Insert one end of the airline tubing into the air fitting installed in the top of the air helper spring. Push the airline tubing into the fitting as far as possible, refer to Figure “A”.

Select a location on the vehicle for the air inflation valves. The location can be on the bumper or the body of the vehicle, as long as it is in a protected location so the valve will not be damaged, but maintain accessibility for the air chuck as shown in Figure “D”. Drill a 5/16” hole and
NOTE:
Once the air helper springs are installed, it is recommended that the vehicle not be lifted by the frame, as over-extension may occur, resulting in damage to the air helper springs. However, should it become necessary to raise the vehicle by the frame, deflate both air helper springs completely.

STEP 6—CHECK THE AIR SYSTEM
Once the inflation valves are installed, inflate the air helper springs to **70 psi** and check the fittings for air leaks. Using a spray bottle, apply a solution of soap and water to the fittings. If a leak is detected at an airline tubing connection then check to make sure that the airline tube is cut as square as possible and that it is pushed completely into the fitting. The airline tubing can easily be removed from the fittings by exhausting all the pressure in the air springs and then pushing the collar towards the body of the fitting and then, while still holding the collar against the body, gently pull on the airline tubing to remove. If a leak is detected where the air fitting screws into the spring, deflate the air springs and remove the tubing, then screw the air fitting into the air spring one additional turn or until the leak stops. Reinstall the tubing and reinflate the air springs and check for leaks as noted above.

NOTE:
Too much air pressure in the air helper springs will result in a firmer ride, while too little air pressure will allow the air helper spring to bottom out over rough conditions. Too little air pressure will not provide the improvement in handling that is possible. **TO PREVENT POSSIBLE DAMAGE MAINTAIN A MINIMUM OF 5 psi IN THE AIR HELPER SPRINGS AT ALL TIMES.**
No Drill Inflation Valve Bracket

Parts List

<table>
<thead>
<tr>
<th>Description</th>
<th>Part Number</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inflation Valve Bracket</td>
<td>9483</td>
<td>1</td>
</tr>
<tr>
<td>Large Nylon Tie</td>
<td>9488</td>
<td>2</td>
</tr>
</tbody>
</table>

This bracket is designed to mount on receiver hitches round or square. Simple use the two provided large Nylon ties to affix the bracket to the receiver hitch tube. Install the air inflation valves on the bracket using two 5/16” flat washers per valve as supports. Then push the end of each air line tubing into the inflation valve as far as possible.
Operating Instructions and Trouble Shooting Guide

Thank you for purchasing Firestone air helper springs. You have purchased a quality product from the world’s number one air spring manufacturer.

This guide will provide answers to some of your questions regarding the use and operation of your new air helper springs. Following the guidelines in this manual will help provide you with many years of trouble-free service from your Firestone air helper springs.

For vehicle applications, air pressure requirements, air compressor CFM, maintainance, or air spring technical data, contact us at:

www.ride-rite.com
1-800-888-0650

INSTALLER: Please leave this manual with the vehicle’s owner.

WARRANTY QUESTIONS
Go to www.riderite.com/installation-support
Select “Warranty Info” tab
SAFETY TIPS

Never exceed the manufacturer’s recommended Gross Vehicle Weight Rating (GVWR)

As with your vehicle’s tires, an air helper spring is a pneumatic device that supports a portion of the vehicle’s weight. The air helper spring may fail as a result of punctures, impact damage, improper inflation, improper installation, or improper usage. To reduce the risk of failure, we strongly recommend the following:

Never overload your vehicle. The manufacturer’s gross vehicle weight rating (GVWR) is stated on the specification plate on the chassis. You should weigh your vehicle on a truck scale when it is fully loaded and in a level condition to determine if you are exceeding the manufacturer’s recommended GVWR.

Inspect the inflated air springs to verify that they do not contact any component of the vehicle under normal suspension operation. The air helper spring must flex and expand during normal operation. There must be at least 1/2” of clearance between the inflated air spring and any other component of the vehicle under normal suspension operation.

The kit is designed to clear all chassis components. If there is any interference, please call Firestone at 1 (800) 888-0650.

Inspect the air line tubing and the air spring to verify that they have not been too close to the exhaust system. If the distance between any portion of the air spring or air line tubing and the exhaust system is less than 6”, a heat shield should be used.

Never inflate the air helper springs beyond the maximum pressure indicated in the installation manual.

Never attempt to remove any component of the air spring assembly when the air springs are inflated.

If an air helper spring has failed while you are on the road, operate your vehicle at reduced speeds. High speed over rough roads will result in severe bottoming of the air spring and may damage other vehicle components.

Never attempt to drive the vehicle in an unleveled condition. Failure to level a heavily loaded vehicle may result in excessive body roll and possible damage or injury.

If unidentifiable problems exist with your air helper spring kit, visit Firestone on the web at www.riderite.com or call 1 (800) 888-0650 for technical assistance.

Never cut, weld, or modify the air helper springs or brackets.

Do not use aerosol tire repair products in the air helper springs or a tire patch of any kind on the air helper spring. If there is a hole in the air spring it must be replaced.

GENERAL INFORMATION

Firestone air helper springs are heavy duty, quality air springs designed to supplement your vehicle’s existing suspension system. These durable air springs allow you to maximize your vehicle’s load carrying capacity through the use of air pressure. Proper installation, use, and operation will provide the maximum service life and performance your air spring kit is capable of delivering. These instructions will help you obtain the maximum benefits available from your air spring kit.

RIDE-RITE™ AIR HELPER SPRINGS

Ride-Rite™ air helper springs are installed between the frame and the suspension of trucks, vans, and motorhomes. Ride-Rite™ air helper springs are capable of supporting loads up to 5000 lbs per pair.*

SPORT-RITE™ AIR HELPER SPRINGS

Sport-Rite™ air helper springs are installed between the frame and suspension of light trucks, and utilize a sleeve-style air spring to enhance the ride when the vehicle is loaded or unloaded. Sport-Rite™ air helper springs are capable of supporting loads up to 3000 lbs per pair.*

LEVEL-RITE™ AIR HELPER SPRINGS

Level-Rite™ air helper springs replace the existing shock absorber with a fully-protected, reversible sleeve air spring paired it with a high-performance Bilstein monotube shock absorber for perfectly matched performance characteristics over the entire operation spectrum. Level-Rite™ air helper springs are capable of supporting loads up to 1000 lbs per pair.*

BASIC OPERATION

As your vehicle is loaded, the stock suspension is compressed under the weight of the load. Your vehicle’s stock suspension system has been designed so that it will provide optimum performance and handling with a specific load on the vehicle. When your vehicle is loaded, its performance, handling characteristics, and ride quality may be compromised. As the stock suspension is compressed, the ride may become “mushy”, and you may encounter sway and handling problems. As weight is added to the vehicle, the air helper springs become an active part of

*Do not exceed the vehicle’s recommended gross vehicle weight rating (GVWR)
the suspension system. As more air pressure is added to the air springs, they will support more weight. You will be able to compensate for a heavy load by adding air pressure to the air springs, thereby reducing sway and handling problems associated with a heavily loaded vehicle.

<table>
<thead>
<tr>
<th>TABLE “A”</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL TORQUE SPECIFICATIONS</td>
</tr>
<tr>
<td>Using a torque wrench, torque the threaded fasteners to the following specifications:</td>
</tr>
<tr>
<td>Fasteners used on studs and blind holes in air springs 15 – 20 ft lbs</td>
</tr>
<tr>
<td>Hex nuts installed on carriage bolts 10 – 15 ft lbs</td>
</tr>
<tr>
<td>Hex nuts installed on 3/8” hex bolts 28 – 32 ft lbs</td>
</tr>
<tr>
<td>Hex nuts and bolts used to secure brackets to frame 28 – 32 ft lbs</td>
</tr>
<tr>
<td>Hex nuts installed on U-bolts 15 – 20 ft lbs</td>
</tr>
<tr>
<td>Hex bolts securing tapered sleeve style air spring to lower bracket 10 – 12 ft lbs</td>
</tr>
</tbody>
</table>

PREVAILING-TORQUE LOCK NUTS
In order to assure trouble-free operation, your air spring kit includes a variety of self-locking threaded fasteners. Your kit may include prevailing-torque lock nuts. Prevailing-torque lock nuts may be more difficult to install, but will not come loose under normal suspension operation.

THREAD LOCKING COMPOUND
The hex bolts used to secure the air spring to the brackets may have a locking compound applied to the threads. Lock washers are not required when using a fastener with pre-applied thread locking compound. When installing fasteners with thread locking compound, follow the torque recommendations listed in table.

HELICAL LOCK WASHERS
Your air helper spring kit may include helical lock washers. In order to properly use the lock washer, tighten the nut/bolt fastener just enough to flatten the lock washer. Overtightening the fastener may damage the nut or bolt. When using helical lock washers, follow the torque recommendations listed in Table “A”.

AIR FITTINGS
Your kit will include one of two types of push-to-connect air fittings: fittings with a thread locking compound pre-applied to the threads or fittings with a Nylon collar in place of the thread locking compound.

The pre-applied thread sealant, thread the air fitting into the air spring and tighten the fitting securely to engage the pre-applied thread sealant.

The Nylon collar, thread the air fitting into the threaded hole on the air spring so that the Nylon collar makes contact with the top of the air spring and then tighten 1/2 turn. No thread sealant is required.

Both types of air fittings allow easy connection between the air fitting and the air line tubing. To install the air line in the fittings, cut the tubing as square as possible using a sharp utility knife or razor blade. Push the air line into the fitting as far as possible. If the tubing must be removed from the fitting, first release the air pressure from the air spring. Push the collar towards the body of the fitting and then pull the tubing out.

PRESSURE DIFFERENTIAL BETWEEN AIR SPRINGS
It is not uncommon to have different pressures between the air springs after the vehicle has been brought to a level condition. If the vehicle is within the manufacturer’s recommended gross vehicle weight and you have not achieved a level condition after inflating the air springs to 100 psi, there may be a problem with your stock suspension. The leaf springs may have become fatigued over time or a leaf spring may be fractured. There may be an obstruction in the air system, not allowing the air pressure to reach the air helper springs.

AIR SPRING ALIGNMENT AND HEIGHT
Upon completion of the installation, the air springs should be inspected for proper alignment. Although the air helper springs can function with some misalignment, it is preferred that the air springs be mounted so that they are aligned with as little top to bottom offset as possible.

Check the distance between the upper bracket and lower bracket (design height). The dimensions shown on Page 5 are a guide to assist in determining the ideal operating height for your air helper springs.
**INFLATING THE AIR SPRINGS**

With the air helper springs installed on your vehicle and the vehicle sitting on a level surface, visually verify that the vehicle is in a level state. If the vehicle is not level (front-to-back or from side-to-side) it can be brought to a level position by inflating the air springs. Each air spring has a separate inflation valve. To level the vehicle from front-to-back, add air pressure to both air springs in equal amounts. To level the vehicle from side-to-side, add more air pressure to the air spring on the lower side of the vehicle. When inflating the air springs, add air pressure in small quantities, checking the pressure frequently. The air spring requires much less air volume than a tire, and therefore, will inflate and deflate quickly.

**WARNING:** DO NOT EXCEED THE MAXIMUM PRESSURE AS INDICATED IN THE INSTALLATION MANUAL.

**LEVELING THE VEHICLE**

Check the level of your vehicle visually. If it is not level, either from front to back or from side to side, level it by inflating your air springs. (If your vehicle is equipped with a cab control unit or automatic control system refer to the directions for that device.) There is one inflation valve for each air spring. To level from front to back, add air pressure to both air springs equally. For side to side, add air pressure to the air springs on the side of the vehicle that is low. When adding air pressure to the air springs, remember that they have a much smaller volume of air that a tire so they will inflate much quicker. Add air pressure in short bursts until the vehicle is level. (NEVER EXCEED 100psi IN EACH AIR SPRING.)

**MAINTENANCE**

It is considered normal for air helper springs to lose some air pressure over time. Normal pressure loss should not exceed 3 – 4 psi per week when the air springs are inflated to 50 psi. If the pressure loss is greater than 3 – 4 psi per week, there may be a leak in the system. Each time you check the pressure in the air springs, you will lose 1 – 3 psi. The air pressure should be checked at regular intervals.

It is recommended that the air pressure be checked according to the following guidelines:

- At least monthly intervals during the continuous operation of the vehicle (see above)
- When the vehicle is removed from long-term storage
- If the air springs are used to assist in leveling an RV or camper on uneven ground, ensure that the vehicle is returned to a level ride height before departing.

The brackets used to secure the air helper spring to the vehicle should be inspected periodically for damage and for loose fasteners. Ensure that the air line tubing is clear of any sharp edges and routed away from the exhaust system. The brackets and air line tubing should be inspected every 6 months. Ensure that the threaded fasteners are torqued to the specifications listed on Page 3.

Accumulated sand, gravel, or other road debris on the air springs or brackets should be rinsed away with a garden hose each time the vehicle is washed.

If it is necessary to lift the vehicle by the frame, first release the air pressure from the air springs. This will allow the air springs to extend to their maximum length without being damaged. The uninflated air springs are capable of supporting the weight of the axle when the vehicle is lifted by the frame. After servicing of the vehicle is complete, lower the vehicle to the ground and reinflate the air helper springs to the desired pressure. **NOTE:** On Sport-Rite kits the air helper springs must be aired up to 50 psi and then release the air until the air helper springs are to the desired pressure.

**ONLINE AUCTION PURCHASES**

Firestone will not replace missing components from any kit purchased through an online auction.
## AIR SPRING TECHNICAL DATA

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Style</th>
<th>“X” Ride Height</th>
<th>Min/Max Air Pressure</th>
<th>Max Load @100 psi (per pair)</th>
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</thead>
<tbody>
<tr>
<td>6868</td>
<td>Single Convoluted</td>
<td>160BY</td>
<td>5.0” - 6.0”</td>
<td>5 / 100 psi</td>
<td>3600 lbs</td>
</tr>
<tr>
<td>6762/6764/6766</td>
<td>Double Convoluted</td>
<td>268C</td>
<td>4.5” - 5.5”</td>
<td>5 / 100 psi</td>
<td>3200 lbs</td>
</tr>
<tr>
<td>6397/6410/6781</td>
<td>Double Convoluted</td>
<td>267C1.5</td>
<td>5.5” - 6.5”</td>
<td>5 / 100 psi</td>
<td>4800 lbs</td>
</tr>
<tr>
<td>6401/6873/6859</td>
<td>Double Convoluted</td>
<td>224C</td>
<td>5.5” - 7.0”</td>
<td>5 / 100 psi</td>
<td>5000 lbs</td>
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<tr>
<td>7689/7701</td>
<td>Double Convoluted</td>
<td>26C</td>
<td>7.0” - 8.0”</td>
<td>5 / 100 psi</td>
<td>5640 lbs</td>
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<tr>
<td>7076</td>
<td>Reversible Sleeve</td>
<td>70mm</td>
<td>6.0” x 8.0”</td>
<td>10 / 100 psi</td>
<td>2000 lbs</td>
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<tr>
<td>9000/9001</td>
<td>Tapered Sleeve</td>
<td>110/70 mm</td>
<td>7.75” - 8.75”</td>
<td>10 / 100 psi</td>
<td>3000 lbs</td>
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<tr>
<td>9002</td>
<td>Tapered Sleeve</td>
<td>110/70 mm</td>
<td>6.75” - 7.75”</td>
<td>10 / 100 psi</td>
<td>3000 lbs</td>
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<tr>
<td>5405</td>
<td>1T Reversible Sleeve</td>
<td>1T14C-3</td>
<td>8.0” - 12.0”</td>
<td>5 / 100 psi</td>
<td>6400 lbs</td>
</tr>
</tbody>
</table>

This information is provided for reference purposes only. The bracketry and air springs in the Ride-Rite™ and Sport-Rite™ kits are designed to work with the original suspension and within the manufacture’s Gross Vehicle Weight Rating (GVWR) for the intended vehicle. Brackets and air springs should not be interchanged or modified.
# Air Command™ Air Control Systems

Firestone has expanded the offering of Air-Rite™ Air Control Systems, which provides an instant air source for air suspension products. Adjust the ride for various load and road conditions with a flip of a switch or even a click on a remote. Individual air accessory components are also available, including compressors, air tanks and mounting solutions, providing a wide variety of air control assist solutions.

## Step 1
Choose the application you need; Single or Dual Leveling.

## Step 2
Choose the style you want to control your air; Analog or Wireless.

## Step 3
Choose the Duty Cycle needed for your kit/vehicle. Recommended duty cycle is listed in the Application Guide.

### Light Duty
- **1-Year Warranty**
- Includes 9377 Compressor
- Best for passenger cars, SUVs, vans, small pickups for occasional use and light loads

### Standard Duty
- **1-Year Warranty**
- Includes 9284 Compressor
- Best for moderate usage, including towing boats, trailers 20' or smaller and medium loads

### Heavy Duty
- **2-Year Warranty**
- Includes 9499 Compressor
- Best for 8-lug trucks, trailers larger than 20', slide-in campers and heavy loads

### Xtra
- **2-Year Warranty**
- Includes 9499 Compressor
- Includes Half-Gallon Air Tank
- Includes 9006 Air Hose
- Best usage same as Heavy Duty, plus motorcycle tire, golf cart tire or trailer tire inflation

### Xtreme
- **2-Year Warranty**
- Includes 9287 Compressor
- Includes 2-Gallon Air Tank
- Includes 2311 Air Hose
- Best usage same as Heavy Duty, plus off-road tire or truck tire inflation
Single Leveling System
Equal pressure to the springs on both sides. This applies to most towables using a hitch.

![Single Leveling System Diagram]

<table>
<thead>
<tr>
<th>Mounting Plate: 2497</th>
</tr>
</thead>
<tbody>
<tr>
<td>2538</td>
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<td>2097</td>
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<tr>
<td>2266</td>
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<td>2543</td>
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</table>

Dual Leveling System
Allows for side-to-side or front-to-back leveling. This applies to work trucks, in-bed campers and off-center loads.

![Dual Leveling System Diagram]

<table>
<thead>
<tr>
<th>Mounting Plate: 2588</th>
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<tbody>
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<td>2581</td>
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Wireless

<table>
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<tr>
<td>2591</td>
</tr>
<tr>
<td>2592</td>
</tr>
</tbody>
</table>
## TROUBLE SHOOTING GUIDE

### Air spring will not inflate

Ensure that the air line tubing is inserted into the air fittings as far as possible. The tubing should go in the fitting 3/4 of an inch. You will feel some resistance when the tubing goes past the o-ring.

Clear any dirt of debris from inside the inflation valves.

Inspect the entire length of air line tubing to ensure that it is not kinked, damaged from exhaust heat, or cut due to contact with sharp edges.

### Air spring will not hold air

Normal pressure loss is no more than 3 - 4 psi per week when the air spring is inflated to 50 psi.

Using the inflation valve cap as a core tool, ensure that the valve stem core is installed securely.

Apply a solution of soap and water to the air fittings, air line, and air springs to check for leaks. Tighten the air fitting or re-install the tubing in the air fitting to stop the leak. Rinse the soap and water solution from the system when complete.

If a leak can not be detected with the soap and water solution, deflate the air springs and remove them from the vehicle. Re-install the tubing and inflation valve on the air spring and inflate the air spring to a maximum of 20 psi. Submerge the air spring in a bucket of water to check for leaks.

### Locations of air leaks

Leaks occur most often at the threaded connection between the air fittings and the air springs. Tighten the fitting to engage the pre-applied orange thread sealant or until the nylon collar makes contact with the air spring, plus 1/2 turn, depending on which type of fitting is included in your kit. (See air fittings on page 3)

The end of the air line tubing must be cut square and clean to avoid burrs in the connection to the air fittings. The push-to-connect fittings require a square cut to properly seal. The tubing can be removed from the fitting by first releasing the air pressure from the air spring. Push the collar on the fitting toward the body of the fitting. While holding the collar in, pull out the tubing. Cut the tubing squarely and push the tubing into the fitting as far as possible.

### The vehicle is not level

Check for proper inflation of the air springs on each side of the vehicle.

Check for obstructions in the air system or vehicle components that may be restricting suspension travel.