

# PEDDERS

**AIR ASSIST**  
ADJUSTABLE AIR SUSPENSION

## FITTING INSTRUCTIONS

## 495002HP

INCLUDING SPECIFIC OPERATING PRESSURES

- This air suspension system is designed to assist the original vehicle manufacturer's suspension – it is not meant to carry the entire rated load. We do not recommend that leaves be removed, or other changes be made from the OEM suspension unless an applicable commercially available suspension kit is fitted.
- The kit is designed to suit a standard vehicle configuration – modifications to the vehicle outside the kit design parameters may adversely affect fitment and operation such as:
  - Height changes outside any noted in the kit specification.
  - Larger dampers (Shock Absorbers)
  - Wheel and tyre changes
  - Exhaust changes.
- If your vehicle is fitted with a brake proportioning valve or stability control system, it is important to ensure this is maintained and adjusted according to the vehicle manufacturer's instructions.
- It is recommended that only a properly qualified person installs the product and carries out maintenance. If you are not qualified and attempt to carry out such work ensure that all safety equipment is used and safety standards are met.
- Ensure that you have read this full document before attempting to fit the product.



SEE OTHER WARNINGS AND IMPORTANT INFORMATION IN THIS DOCUMENT

LHS = LEFT SIDE OF THE VEHICLE WHEN FACING FORWARD

### STEP 1 - AIRLINE TUBING & FITTINGS - GENERAL NOTES

#### CUTTING

Only cut the airline tubing with a sharp blade making the cut as square as possible.

Always trim the tubing before re-inserting into the fitting.

- ⚠** If you use a sharp utility knife or razor blade great care must be taken in all cases not to cut yourself during this operation.

#### CONNECTING & REMOVING

##### To connect:

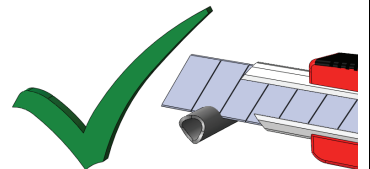
Push the freshly trimmed tubing into the fitting as far as possible.

##### To remove:

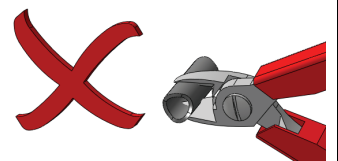
First release the air pressure from the system. To withdraw the tubing, push and hold the collar on the fitting away from the tube and pull out the tubing.

**Hint** In confined spaces an open ended spanner can be used to evenly depress the collar and remove the airline tubing.

CUT TUBING  
SQUARE  
WITH SHARP  
BLADE OR  
TUBE  
CUTTER



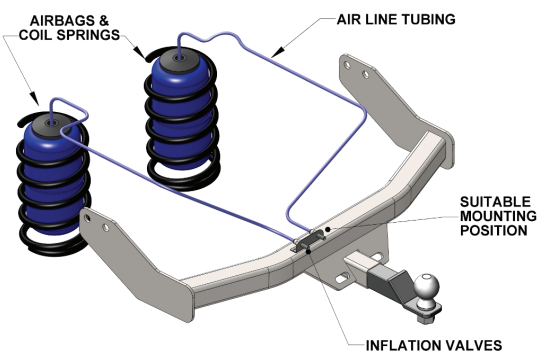
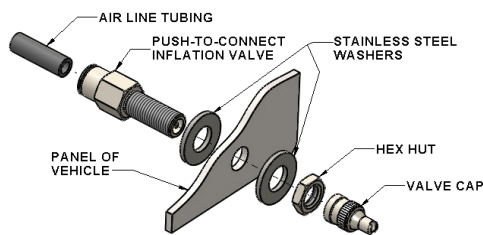
DO NOT USE  
PLIERS, SIDE  
CUTTERS OR  
PIPE CUTTERS



## STEP 2 - POSITION YOUR INFLATION VALVES

Select a convenient location for the air inflation valves such as the bumper or the body of the vehicle. It must be protected from road damage and be accessible for air inflation equipment.

Drill a 5/16" hole and install the air inflation valve using two 5/16" stainless steel washers as supports where required.



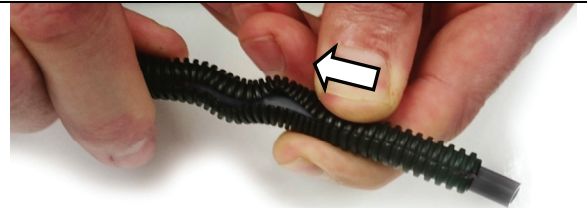
**AIRLINE ROUTE SHOWN IS EXAMPLE ONLY  
SEE RELEVANT COIL SPACE ROUTING**

## STEP 3 - PREPARE THE AIR LINE TUBING

The air line is supplied with split protector tube pre-fitted to shield the air line during and after installation. Decide on a suitable route for the air line from the airbag to the inflation valve location to avoid direct heat from engine, exhaust pipe, and away from sharp edges.

Uncoil the air line tubing being careful not to fold or kink it and cut to length to suit the chosen route. Once routed, the protector tube is pulled back later to prepare the protected air line.

**DO NOT CONNECT OR SECURE THE AIR LINE AT THIS POINT**



## STEP 4 - ADD THE HIGH PRESSURE SLEEVES

Refer to the High Pressure Sleeve Fitting Instructions supplied with the High Pressure Sleeves.

Fit the elasticated tapered end of the High Pressure sleeve over the airbag and slide the High Pressure sleeve over the airbag as shown. The High Pressure sleeve is to be positioned with the tapered ends neatly over the upper and lower shoulders of the airbag as shown.

**Note: Fitting airbags with high pressure sleeves will increase the material thickness to be inserted into the coil.**



## STEP 5 - PREPARE THE VEHICLE

In order to fit this kit, the coil springs need to be removed. Ensure this operation is carried out according to the vehicle manufacturers' instructions.

## STEP 6 - ROUTE THE TUBING INTO THE COIL SPACE

Route the airline tubing through to the top of the coil spring seat with enough extra to protrude through the coil space for airbag connection and test.

**Hint** The RHS airline requires careful routing to ensure the fuel lines do not restrict the airline.

## STEP 7 - RED PLUGS

Use of the red plugs supplied is optional. They will enable a general reduction in airbag size which may be required to ease an airbag into a coil spring which is out of the vehicle, and they will fully flatten an airbag for easy insertion into an in-situ extended coil spring through the winding.

**USING RED PLUGS:** Flatten the airbag with the airline fitted and plug the other end of the airline tubing with the red plug. The airbag should now remain flattened whilst you perform fitment into the coil spring.

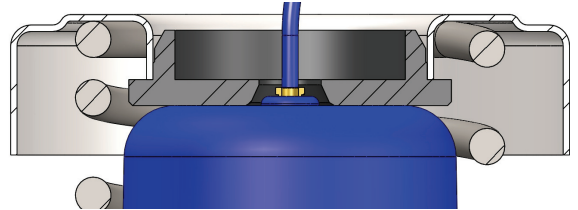


**STEP 8 - INSERT AIRBAG INTO COIL SPRING**

Insert the airbag into the top of the coil spring with the air inlet at the top.

**STEP 9 - INSERT UPPER SUPPORT**

Insert the upper support into the coil spring upper tower, push home firmly to hold in place.



**STEP 10 - HIGH PRESSURE SLEEVE POSITIONING**

Once the airbag and high pressure sleeves are in the coil spring it is recommended that you visually inspect to ensure correct positioning. You can work the high pressure sleeve around the airbag so that it is as even as possible prior to inflating the airbag.

**STEP 11 - CONNECT AIRLINE TUBING AND TEST CONNECTIONS**

**CONNECT** the airline tubing by inserting one end into the airbag air fitting, the other end into the installed inflation valve.

**Hint** Flat nose pliers may be used to lightly grip the airline tubing to ensure it is fully inserted into the airbag fitting.

**INFLATE** the airbag to the maximum allowed pressure (See Specific Operating Pressure Advice attached) and check for leaks at the connections using soapy water spray. We recommend a soapy water spray solution of 25% soap to 75% water.

**DEFLATE** the airbag. If no leak, continue. If leak detected, remove the airline tubing, re-cut and re-test.

**CHECK** airbag is not in contact with any sharp edges or is too close to exhaust heat in all load and height conditions.

**STEP 12 - COIL SPRING RE FITMENT**

Reattach all suspension components removed earlier and return the vehicle to driving position. Ensure this operation is carried out according to the vehicle manufacturers' instructions.

**STEP 13 - TO FINISH**

Stick the supplied warning decal in a prominent position in sight of the vehicle operator.

Ensure the vehicle owner/operator fully understands how to use the product.

All fixings should be checked for tightness after the first laden run and thereafter as per the original manufacturer's recommendations.



**SPECIFIC AIRBAG OPERATING PRESSURES**

See operating instructions section for proper use and apply the specific pressures below:

**MINIMUM**

**5 PSI (0.4 bar)**

**MAXIMUM**

**30 PSI (2.0 bar)**

Adjust and maintain pressure up to the stated maximum to level the vehicle for the load imposed and always maintain the minimum airbag pressure.

Failure to do so may result in product or vehicle damage not covered under warranty.

**IF MORE PRESSURE IS REQUIRED TO LEVEL THE VEHICLE  
CONTACT YOUR NEAREST PEDDERS OUTLET FOR FURTHER TECHNICAL ADVICE**

**Incorrect use of this air suspension product can result in damage to the airbag, associated parts and/or the vehicle, which is not covered under warranty.**

**Ensure the airbags are maintained at the stated ride height at all times and the maximum pressure is never exceeded.**