







FITTING INSTRUCTIONS

(AIRBAG OPERATING HEIGHT & MAXIMUM PRESSURE)

RR4600



-  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 the full Product Manual before attempting to fit the product.
-  Ensure the Product Manual is kept with the vehicle and that any vehicle owner and/or operator are fully advised on the system and its operation before attempting to drive or operate it.



SEE OTHER WARNINGS AND IMPORTANT INFORMATION IN THE PRODUCT MANUAL

LHS = LEFT SIDE OF THE VEHICLE WHEN FACING FORWARD

STEP 1 - PREPARE THE VEHICLE


Please note that we recommend the vehicle be un-laden when fitting this kit as you may need to create additional clearance between the axle and chassis. Ensure this is carried out according to the vehicle manufacturers instructions.

STEP 2 - 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:

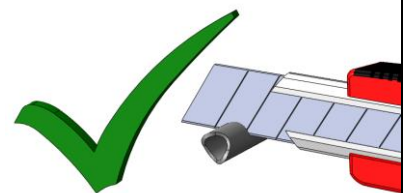
Push the freshly trimmed tubing into the fitting as far as possible.

To remove:

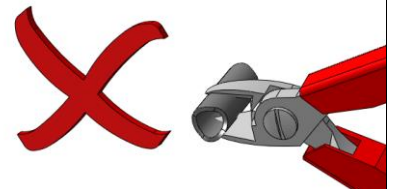
First release the air pressure from the system. To withdraw the tubing, push and hold the collar on the fitting away from the tube and pull out the tubing.

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**



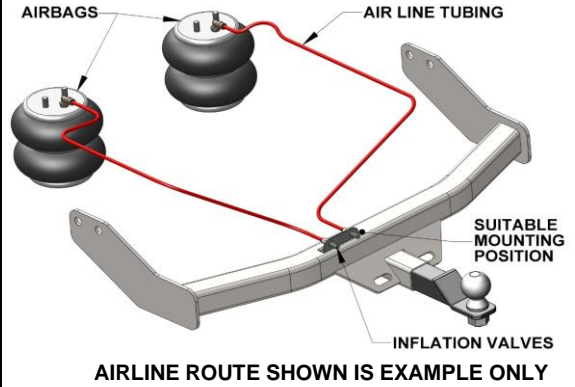
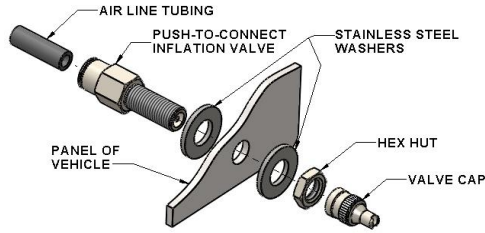
**DO NOT USE
PLIERS, SIDE
CUTTERS OR
PIPE CUTTERS**



STEP 3 - 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.



STEP 4 - PREPARE THE AIR LINE TUBING

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. Next cut a suitable length of protector tube and feed over the air line tubing. (See opposite)

DO NOT CONNECT OR SECURE THE AIR LINE AT THIS POINT



STEP 5 - REMOVE THE BUMP STOP

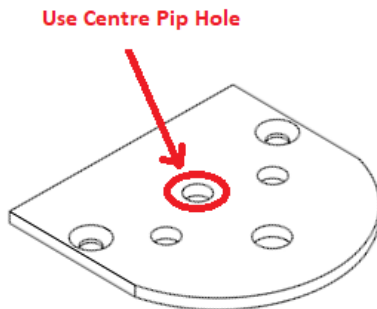
Un-bolt the bump stop from the chassis, retain the bolts as they are used to mount the upper bracket, the bump stop may be discarded.



STEP 6 - FIT UPPER BRACKET

Select one upper bracket from your kit. Fasten the upper bracket to the chassis using two of the M8 countersunk screws supplied. Position the larger hole to the outside of the chassis rail (toward the tyre).

Ensure the centre pip hole position is used.



STEP 7 - PRE-ASSEMBLE LOWER BRACKET & AIRBAG

Fasten the airbag to the lower bracket using a 3/8" x 3/4" countersunk screw. Check the alignment on the vehicle to confirm the air spring will line up with the top bracket, rotate the airbag as necessary and re-tighten.

NOTE: Lower brackets and angle brackets are handed

B2155 & B2031B - LHS

B2156 & B2032 - RHS

STEP 8 - FIT AIRBAG TO UPPER BRACKET

Compress the assembly and set it in place on the axle.

Fasten the air spring to the upper bracket using the supplied large lock nut – **DO NOT OVER-TIGHTEN.**

IMPORTANT: Check that the alignment pip on the top of the airbag is lined up with the small hole in the bracket.

STEP 9 - FASTEN LOWER BRACKET TO AXLE

To fasten the lower bracket to the axle, fit the supplied M8 u-bolts and M8 lock nuts loosely, align the brackets so that the airbag is straight and square above the axle. Now fit and tighten the angle bracket under the axle using a supplied 3/8" x 1" plain hex bolt down through the hole in the flat part of the lower bracket, and a 3/8" x 3/4" flange bolt through the horizontal leg. Loosely fit the supplied 3/8" lock nuts to these bolts.

Tighten the lower bracket u-bolts and 3/8" hex nuts once the alignment is correct. Ensure the u-bolts are fully tightened so that the lower bracket cannot move on the axle. This may need to be adjusted with the vehicle in its normal driving position.

NOTE: When fitting LHS lower bracket, a brake line on the back of the axle will need to be bent to clear the lower bracket. Do not damage the line doing this, and ensure that the bracket cannot rub in to the line.

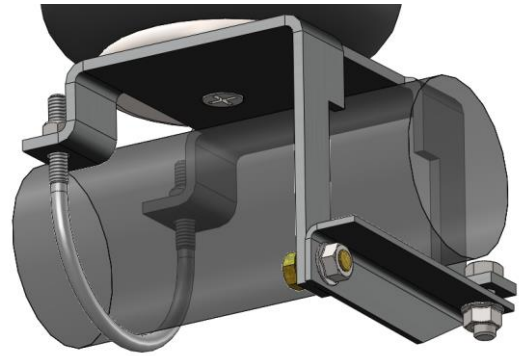
STEP 10 - FIT ELBOW AIR FITTING

Install the supplied 1/4" x 1/8" elbow air fitting in the air entrance hole inside the stud on the top plate of the airbag and tighten until the nylon ring contacts the top plate then tighten a further 1/4 turn to snug the fitting.

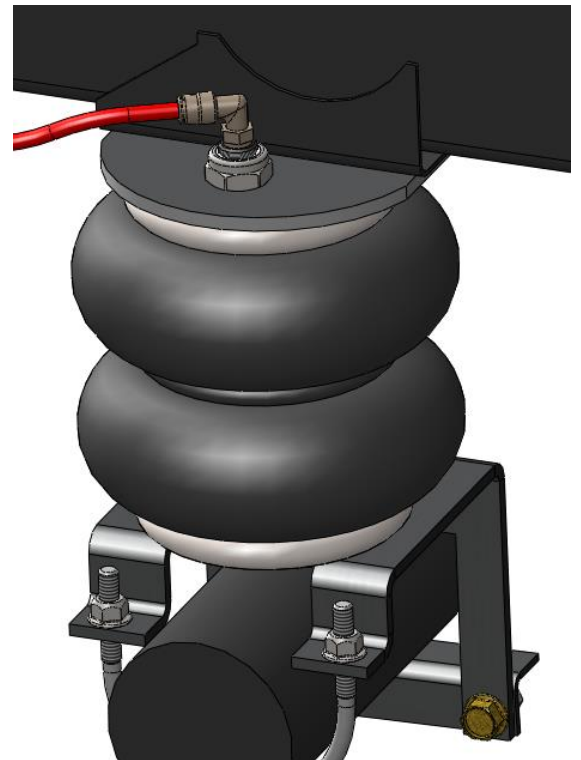
No additional thread sealant needed. If these fittings are re-fitted many times they will degrade their sealing ability.

STEP 11 - CONNECT AIRLINE TUBING

Route airline tubing and connect to airbag air fittings and inflation valves. Secure with supplied nylon ties.



Outboard towards Tyre



STEP 12 - LEAK TEST

INFLATE the airbag to the maximum allowed pressure (see Airbag Operating Height & Maximum Pressure 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 airbag. If no leaks, continue. If leak detected, check and tighten the airbag fittings (if required), remove the airline tubing, re-cut and re-test.

STEP 13 - FITMENT COMPLETION

Return the vehicle to driving position. Ensure this operation is carried out according to the vehicle manufacturer's instructions.

STEP 14 - AIRBAG HEIGHT AND ALIGNMENT

The airbag must be checked for the correct installed height, vertical alignment and clearances with the vehicle levelled out.

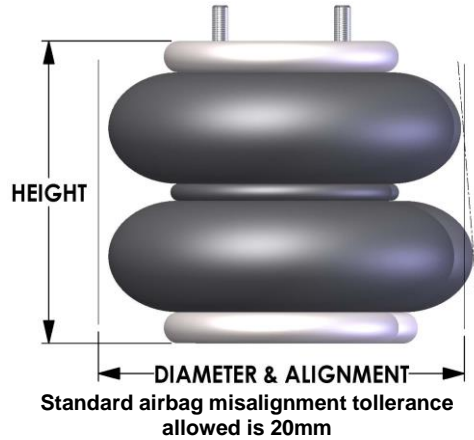
INFLATE the airbags until a level vehicle height is reached and measure the bag height between the mounting plates.

The AB0120 airbag in this kit requires a height of 5.5" to 6.0" to be maintained under all loads.

It is important to ensure that the airbag does not make contact with any other components in all load and height conditions.

If the centreline of the airbag end plates are misaligned in any direction more than the amount shown to the right, please contact Airbag Man on 1800 247 224 for further technical support.

Please note: Misalignment and angled installation at ride height is often required to ensure correct alignment through the suspension travel.



STEP 15 - TO FINISH

Ensure the **WARNING** label is fixed in a prominent position in sight of the vehicle operator.

Ensure the Product Information Wallet is given to the vehicle owner/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.

**AIRBAG OPERATING HEIGHT
& MAXIMUM PRESSURE**

See operating instructions section for proper use and maintain the specific height below:

OPERATING HEIGHT

The AB0120 airbag in this kit requires a height of 5.5" to 6.5" under all loads.

Adjust and retain pressure up to the stated maximum to maintain the airbag operating height.

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

MAXIMUM PRESSURE

50 PSI (3.5 bar)

**IF MORE PRESSURE IS REQUIRED TO MAINTAIN THE OPERATING HEIGHT CALL
AIRBAG MAN ON 1800 247 224 FOR FURTHER TECHNICAL ADVICE**



FREECALL 1800 247 224



⚠️ 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.