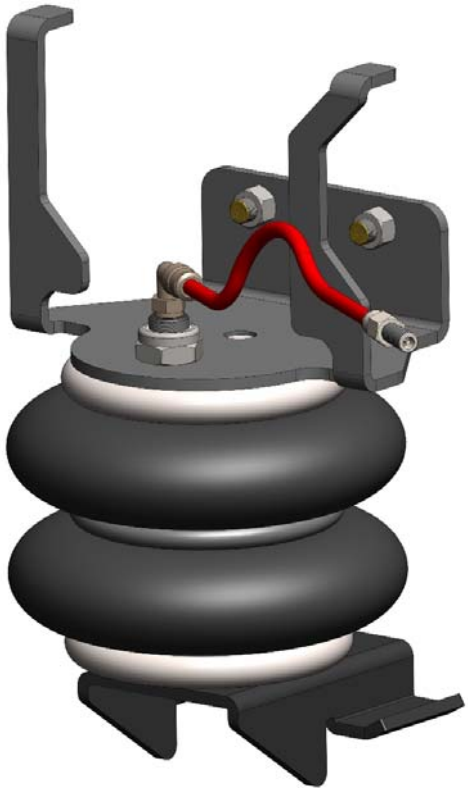
FITTING INSTRUCTIONS

(*AIRBAG OPERATING HEIGHT & MAXIMUM PRESSURE*)

RR4656



⚠ **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 is 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

In order to fit this kit the u-bolts may need to be loosened or removed. Ensure this operation 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:

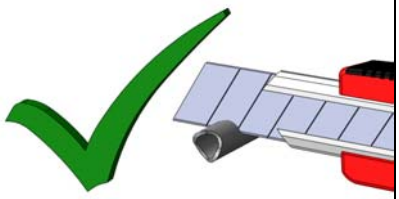
Push the freshly trimmed tubing into the fitting as far as possible.

To remove:

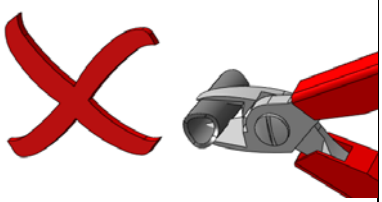
First release the air pressure from the system. To withdraw the tubing, push and hold the collar on the fitting away from the tube and pull out the tubing.

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



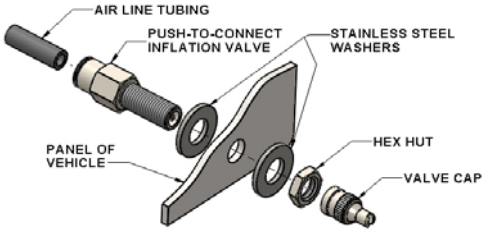
DO NOT USE PLIERS, SIDE CUTTERS OR PIPE CUTTERS

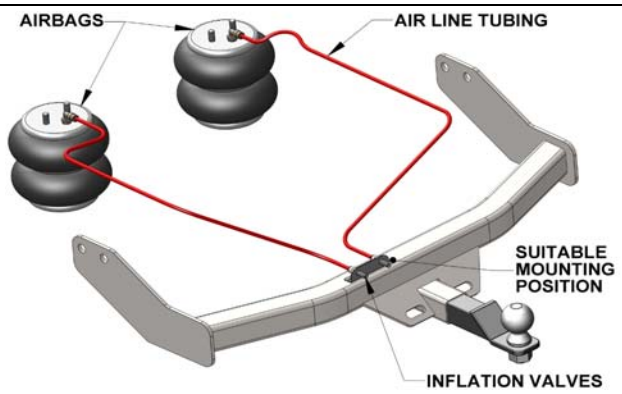


STEP 3 – POSITION YOUR INFLATION VALVES

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.





AIRLINE ROUTE SHOWN IS EXAMPLE ONLY

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)

Insert the tube at one end and route as above securing in place with the nylon ties provided. Trim and insert the other end as required.

DO NOT CONNECT OR SECURE THE AIR LINE AT THIS POINT

STEP 5 – REMOVE BUMP STOP

Release the u-bolts on the left hand side of the vehicle and remove the bump stop from the leaf. The bump stop can be discarded; leave the u-bolts loose as the will be used later to fasten the lower bracket.

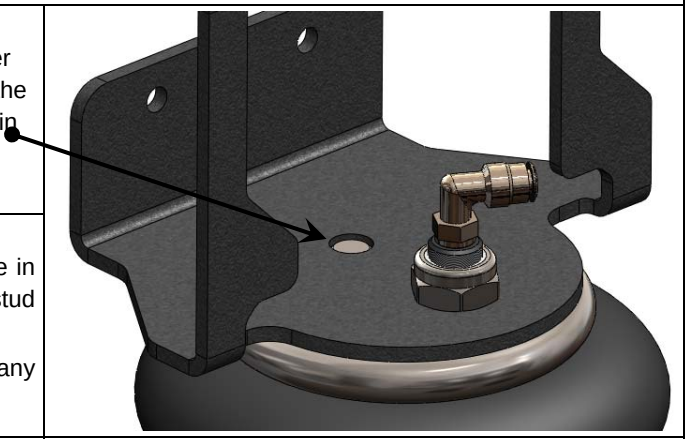
STEP 6 – PREASSEMBLE AIRBAG AND UPPER BRACKET

Select one airbag and an upper bracket from your kit. Fasten the upper bracket to the airbag using the supplied 5/8” UNF hex half lock nut on the combination stud. Ensure that the pip in the airbag locates in the hole in the upper bracket.

STEP 7 – INSTALL ELBOW AIR FITTING

Install the supplied 1/4” x 1/8” elbow air fitting in the air entrance hole in the stud of the airbag and tighten until the nylon ring contacts the stud 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 8 – FIT LOWER BRACKET TO ASSEMBLY

Select one lower bracket and fasten to the airbag using a 3/8” x 3/4” UNC flange bolt provided. The bolt should pass through the hole that will be forward on the vehicle; the airbag will offset inboard.

Note: The bolt may be tightened once the assembly is fitted to the vehicle.

STEP 9 – INSTALL LEFT HAND SIDE ASSEMBLY

Release the brake line clip on the inside of the chassis rail, behind the bumper contact plate.

Connect airline tubing to the air fitting on the airbag and squash the airbag by hand. Attach other end of airline to an inflation valve to hold the airbag compressed.

Rotate the upper bracket into position, starting with the outer part of the bracket (bolts go outboard) hooked over the bumper contact plate. Ensure the legs slide up the chassis and pass behind the brake and electrical lines. If the top bracket legs do not hook over the top of the chassis, this will be corrected after fitting the lower bracket.

Release the tubing from the inflation valve to expand the airbag and position the lower bracket under the u-bolts on the leaf spring, aligning the bracket in the same position the jounce bumper was in.

Re-fit the u-bolt plate and tighten the u-bolt nuts to the manufacturers recommended torque setting.

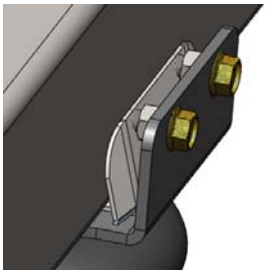
To set the upper bracket in position some air may be added to the airbag until it snaps into position.

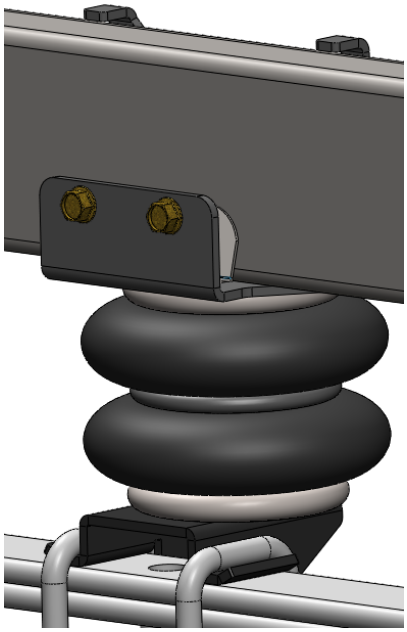
⚠ **WARNING: There is potential for bodily injury doing this, keep well clear of the vehicle when inflating.**

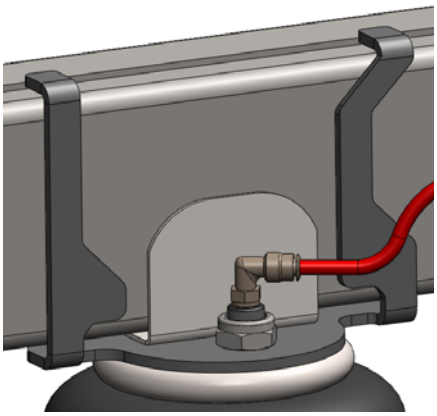
Once the upper bracket is set in place, release the pressure from the airbag and remove the airline tubing.

Set the alignment of the airbag to the best position then tighten the lower airbag bolt. The upper bracket is held in place on the chassis using two 3/8" x 3/4" flange bolts and nuts.

Tension up the bolts evenly first (the bracket will bend slightly as they press against the chassis) then tighten the nuts to lock the bolts in place.

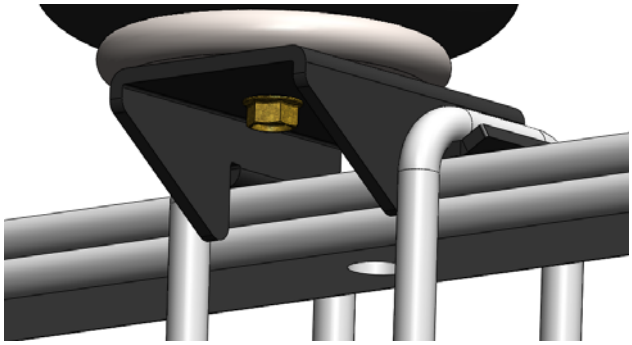






STEP 10 – INSTALL RIGHT HAND SIDE ASSEMBLY

Follow Steps 5 - 9 for the right hand side of the vehicle, reversing any orientations.



STEP 11 – CONNECT AIRLINE TUBING

Check and connect the pre-routed airline tubing.

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 manufacturers 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.

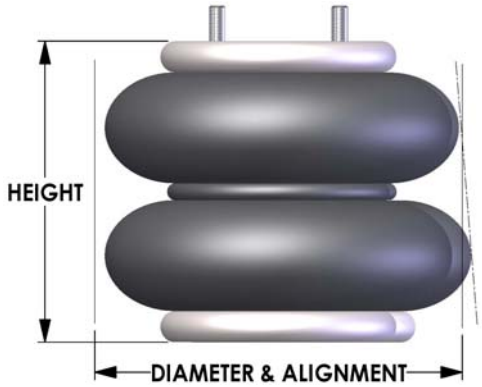
INFLATE the airbags until a level vehicle height is reached and measure the bag height between the mounting plates.

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



Standard airbag misalignment tollerance allowed is 20mm

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

50PSI (3.5bar)

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 never exceed the maximum pressure above.**