







FITTING INSTRUCTIONS

(AIRBAG OPERATING HEIGHT & MAXIMUM PRESSURE)

RR4659



-  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:

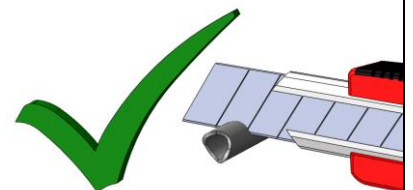
Push the freshly trimmed tubing into the fitting as far as possible.

To remove:

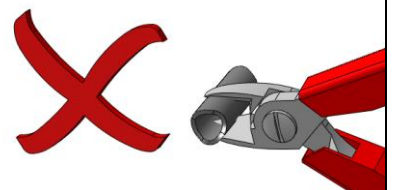
First release the air pressure from the system. To withdraw the tubing, push and hold the collar on the fitting away from the tube and pull out the tubing.

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**



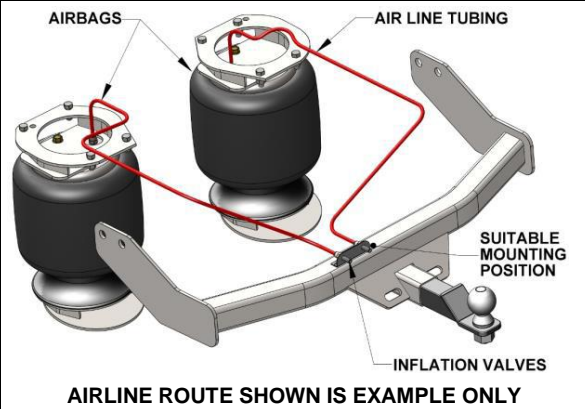
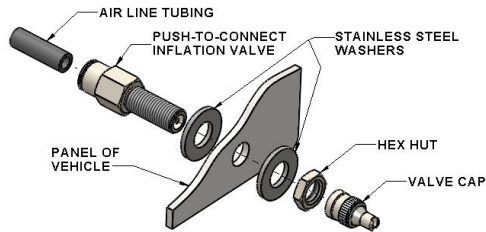
**DO NOT USE
PLIERS, SIDE
CUTTERS OR
PIPE CUTTERS**



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.



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 - INSTALL THE UPPER BRACKET

Firstly remove the existing bolts from the chassis using a 13mm socket. Fasten the bracket to the chassis with the supplied M10 x 30mm low head allen bolts.

Ensure the threads are clean from any dirt or corrosion.

NOTE: Please be advised the upper brackets are sided, B2392 LHS & B2393 RHS



STEP 6 - FIT THE LOCATING BOLT AND ELBOW AIR FITTING

Using the supplied 3/8" x 1/2" cap head bolt fasten this to the airbag ensuring it corresponds with the notch in the upper brackets.

NOTE: The brackets are sided

Install the supplied 1/4" x 1/4" elbow air fitting in the air entrance hole on The top plate of the airbag and tighten until sealed. No additional thread Sealant needed.

NOTE: If these fittings are re-fitted many times they will degrade their Sealing ability.



STEP 7 - FIT THE AIRBAG TO THE UPPER BRACKET

Fit the airbag to the corresponding upper bracket using the supplied 3/8" x 3/4" hex head bolts,

Ensure the locating bolt is seated in the notch of the bracket correctly when the bag is tightened up to the bracket.



STEP 8 - POSITION THE LOWER BRACKET TO THE

The Lower brackets are 'handed' so ensure that it is orientated correctly. The Airbag should be inboard of the Leaf pack.

NOTE: Please be advised the lower brackets are sided, B2396 LHS & B2397 RHS

Position the lower bracket onto the leaf spring and slide forward under the shrouded hand brake cable. The forward lip of the lower bracket seats into the saddle which is welded to the axle tube and will locate forward and rearward.

The hand brake cable will route on top of the lower bracket and in front of the airbag piston. Cover the hand brake cable with a 150mm section of the protective tubing supplied.

NOTE: Ensure that the hand brake cable is above the bracket.



STEP 9 - FASTEN THE LOWER BRACKET TO THE AIRBAG

Secure the Lower bracket into position with the axle strap and countersunk bolts provided.

Fasten the axle strap to the 4.5" long countersunk bolts with the 3/8" nyloc nuts and 3/8" washers.

NOTE: The lower bracket must have the front edge seated into the axle saddle recess.

Fasten the lower bracket to the airbag using the supplied 3/8" x 3/4" flange hex bolt.



STEP 10 - INSTALL THE OPPOSITE SIDE

Follow Steps 5-10 for installation of the opposing side, reversing any orientations.

STEP 11 - CONNECT AIR LINE TUBING

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

Check the tubing to ensure the airline is not going to rub on any sharp edges once secured.

STEP 12 - FASTEN THE LOWER BRACKET TO THE AIRBAG

The airbag must have at least 20mm clearance at all load conditions from any part of the exhaust, such as the exhaust hanger in the photo on right.

If needed the hanger must be modified to create the minimum 20mm clearance.

Ensure this measurement does not change throughout the suspension travel.



STEP 13 - 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 14 - FITMENT COMPLETION

Return the vehicle to driving position. Ensure this operation is carried out according to the vehicle manufacturers instructions.

STEP 15 - AIRBAG HEIGHT AND ALIGNMENT

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

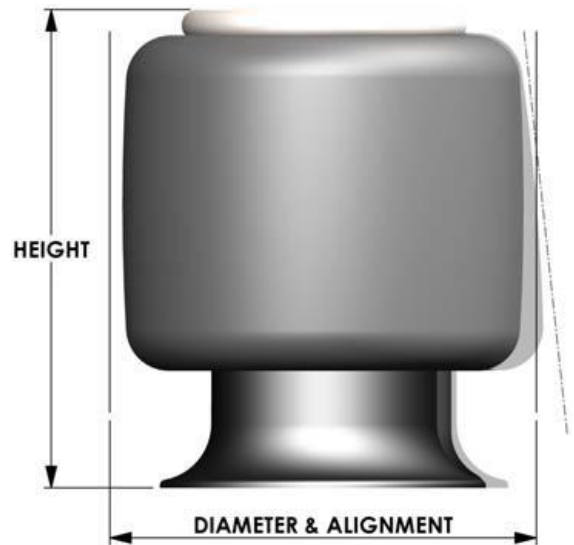
INFLATE the airbags until a level vehicle height is reached and measure the bag height between the mounting plates.

The AB0030 airbag in this kit requires a height of 7.75" to 8.75" 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 tolerance allowed is 20mm

STEP 16 - 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 **AB0030** airbag in this kit requires a height of **7.75" to 8.75"** and pressure of at least **10PSI (0.7bar)** 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



80PSI (5.5bar)

**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 maintain the minimum pressure required and never exceed the maximum.**