







FITTING INSTRUCTIONS

(INCLUDING SPECIFIC OPERATING PRESSURES)

RR4562



-  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

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 manufacturer's instructions.

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

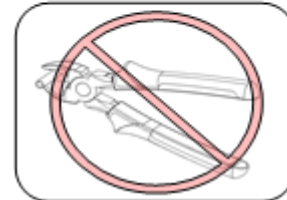
To connect:

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.

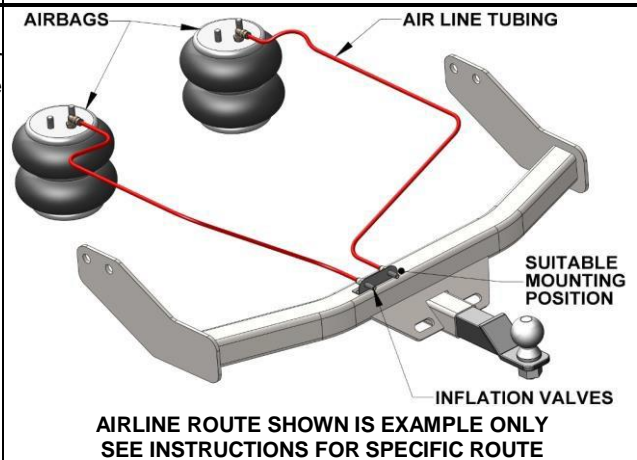
Hint In confined spaces an open-ended spanner can be used to evenly depress the collar and remove the airline tubing.



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.



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.



BUMP STOP & CUP REMOVAL

Raise the chassis from the axle to create enough room to remove the bump stops, without straining any brake or other lines.

Remove the bump stop from its cup by hand, then remove the M10 bolt and cup. The threaded holes will be used to locate the upper brackets.

NOTE: Take note of the thread pitch on the bump stop as it may be a standard or fine thread. There are countersunk screws provided in the kit to suit both sizes.

ENSURE THE CORRECT SIZE FASTENER IS USED.



PREPARE THE AXLE 2004-2014

To position the Lower Brackets correctly onto the axle, bend the metal collar, which is being used to hold the electric wire. During this operation protect the electric wire and the brake line to insure they do not get damaged.

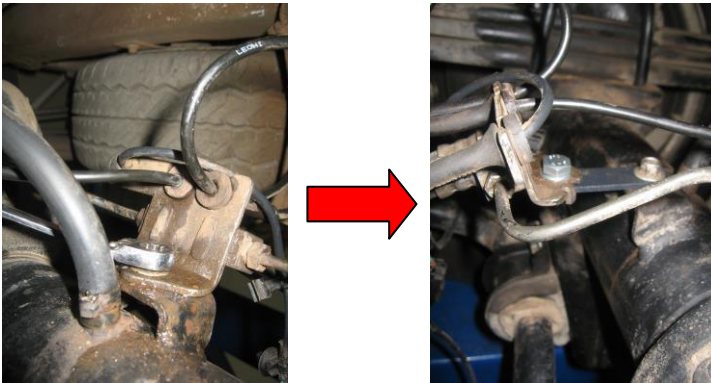
Fix the collar to the Lower Bracket using one of the M8 U-Bolts that are used to attach the Lower Bracket to the Axle Strap. Do not fully tighten yet.

Temporarily move the bracket holding the brake lines in order to better position the airbag and lower bracket. (Torque M10 bolts to 38Nm.) Reposition and tighten all.

Take off the bracket holding the brake lines and carefully reposition it using either:

- The original M8 bolt
- The M8 x 20 bolt, M8 locknut, M8 washers and locator plate provided in the kit.

NOTE: Use extreme caution when carrying out this procedure so as not to damage any of the brake lines.

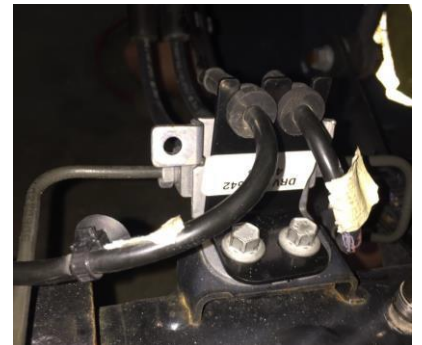
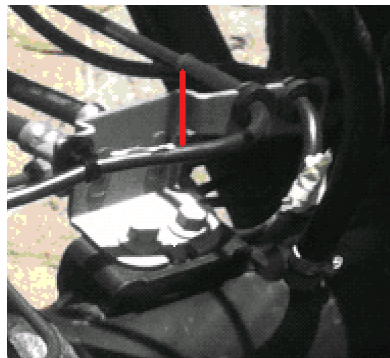


PREPARE THE AXLE 2014 onwards

Due to the airbag brake line holder interference, the brake line holder must be cut, and the new supplied bracket used. Cut the ABS line holder along the red line. Ensuring not to damage any brake lines or electrical wires during this process.

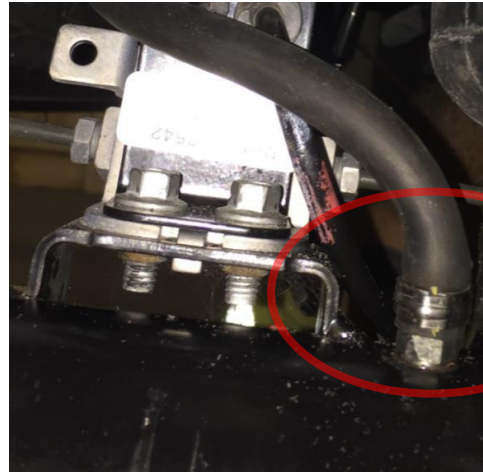
NOTE: Ensure there are no sharp edges after cutting & it is best practice to have the ABS lines removed from the holder prior to cutting.

Remove the two bolts holding the existing brake line bracket to the axle and then install the supplied bracket re-using the removed factory bolts. Install the ABS wires into the two cut outs.



On the models 2014 onwards - a diff breather can be found on the housing, this needs to be directed away from the lower bracket. This can be achieved by removing the original breather fitting and replacing it with the supplied 1/8" thread x 1/8" barbed fitting, re use the original tubing and hose clamp and assemble.

Ensure that the barbed fitting is not facing towards the lower bracket.

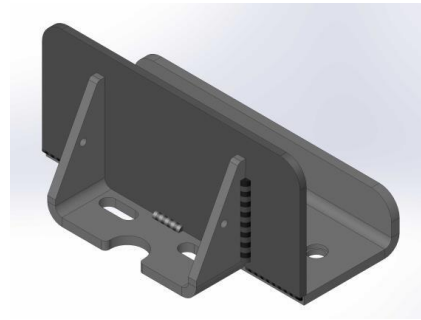


INSTALL RHS UPPER BRACKET TO THE CHASSIS

Fix the upper bracket in place of the original bump stops using the correct M10 countersunk screws. (Discard the other two M10 countersunk screws that are not used).

On the exhaust side of the vehicle the heat shield must be placed between the airbag and upper bracket if required, with the flange in position between the exhaust pipe and the airbag.

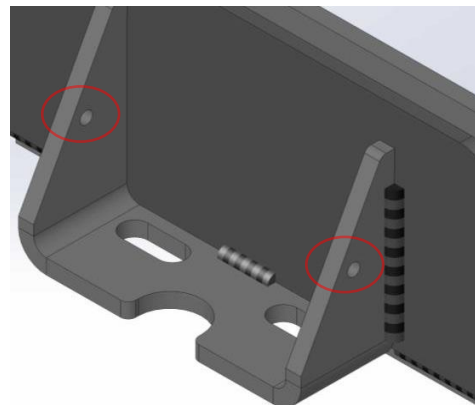
(Torque to approx. 38Nm for Standard Thread, Torque to approx. 43Nm for Fine Thread).



INSTALL LHS UPPER BRACKET TO THE CHASSIS

The LHS upper bracket may need the wiring loom plug clip removed from the chassis and cable tied to the upper bracket.

There are holes predrilled into the bracket to secure the loom to the bracket.



INSTALL LOWER BRACKET TO AIRBAG

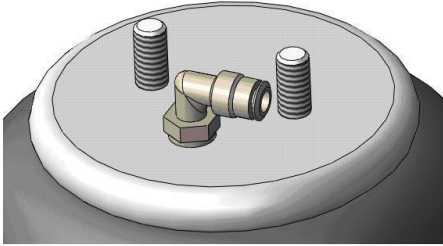
Fasten the airbag to the lower bracket using the supplied 3/8" countersunk screw. Select the hole with the best alignment in the lower bracket and tighten.

Ensure that the orientation of the airbag lines up correctly with the upper bracket before tightening the countersunk screw.



INSTALL AIRBAG ASSEMBLY TO UPPER BRACKET

The top of the airbag has two studs and an air entrance hole. Install the elbow fitting into the top of the airbag.



Attach the upper bracket to the top of the airbag using the 3/8" flanged lock nuts.

Ensure this is orientated so that the fitting is exposed through the cut out in the bracket.



INSTALL LOWER ASSEMBLY TO AXLE

While the lower bracket is sitting in position on the axle, feed the M8 U-bolt through the lower shock mount, as shown on the right.

NOTE: The U-bolt may need to be adjusted for fitment.

At the rear of the axle on the LHS there is the ABS wires and steel brake line that may need to be manoeuvred out of the way to prevent any damage. (See Below and Right)



INSTALL OTHER SIDE

Repeat the process to finish installation on the other side of the vehicle.

CONNECT AIRLINE TUBING

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

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.

AIRBAG HEIGHT AND ALIGNMENT

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

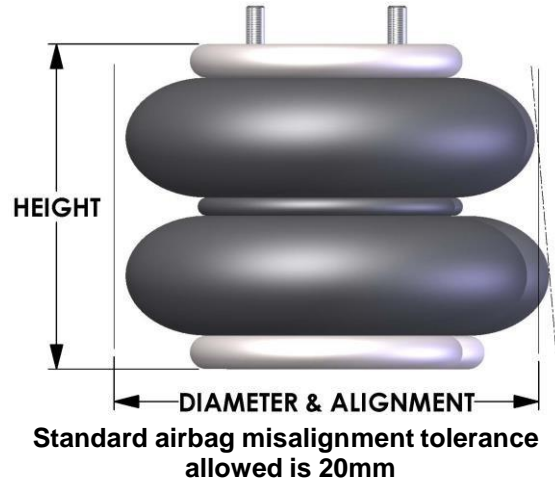
Inflate the airbags until a level vehicle height is reached and measure the bag height between the mounting plates.

The AB0121 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 contact any other components in all load and height conditions.

Misalignment and angled installation at ride height are often required to ensure correct alignment through the suspension travel.

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



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

The product is only intended to act as a helper to the original standard OEM suspension. See operating instructions section for proper use and apply the specific pressures below:

OPERATING HEIGHT

The **AB0121** airbag in this kit requires a height of **5.5" to 6.5"** under all loads. Adjust and maintain pressure up to the stated maximum to level the vehicle for the load imposed and to always maintain the minimum airbag height.

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

MAXIMUM PRESSURE

80PSI (5.5 bar)

**IF MORE PRESSURE IS REQUIRED TO LEVEL THE VEHICLE CALL
AIRBAG MAN ON 1800 247 224 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 always maintained at the stated ride height and maintain the minimum pressure required and never exceed the maximum.