

# AIRBAG MOUNTING KIT

## SUITS TOYOTA LANDCRUISER 79

### WARNING

- ◆ This product must be installed exactly as per these instructions using only the hardware supplied.
- ◆ In the event of damage to any suspension component, contact your nearest authorised ARB stockist. Repairs or modifications to the suspension system components must not be attempted.
- ◆ Do not use this product for any vehicle make or model, other than those specified by ARB.
- ◆ Do not remove labels from suspension components.
- ◆ This product or its fixing must not be modified in any way.
- ◆ The installation of this product may require the use of specialised tools and/or techniques.
- ◆ This product must only be installed by trained personnel.
- ◆ These instructions are correct as at the publication date. ARB Corporation Ltd. cannot be held responsible for the impact of any changes subsequently made by the vehicle manufacturer.
- ◆ During installation, it is the duty of the installer to check correct operation/clearances of all components.
- ◆ Work safely at all times.

**Note:** These fitting instructions should be read in conjunction with the vehicle workshop manual or torque reference chart.

# FITTING REQUIREMENTS

## HAND TOOLS REQUIRED

Ring open end spanner set-metric  
Ratchet spanners-metric  
Socket set-metric  
Screwdriver  
Tube cutter  
Extension bar  
Banding Tool with Cutter- Band Style Clamps

## WORKSHOP TOOLS REQUIRED

Vehicle hoist or jack and axle stands  
Torque wrench  
Soapy water  
Tyre inflator  
Pliers

## OPTIONAL HAND TOOLS

Allen key set metric  
Pry bar

## OPTIONAL WORKSHOP TOOLS

Impact driver

### Other Items

Teflon/ PTFE Tape \*  
Thread Sealant \*

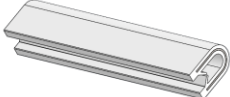
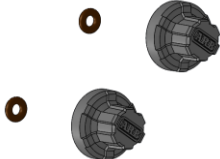
*\*Use Teflon tape or thread sealant for fittings wherever applicable.*


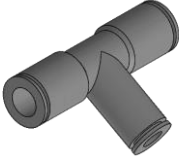
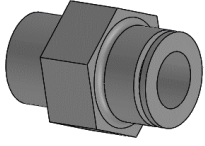
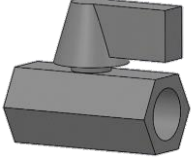
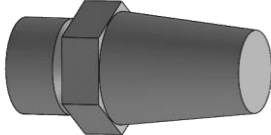
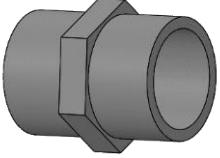

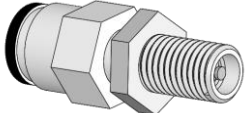
# SAFETY EQUIPMENT REQUIRED










Protective eyewear		Gloves		Hearing protection	
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# PART LIST

AIRBAG KIT (OMEAB003)				
ITEM	PART NUMBER	NAME	QTY	IMAGE
1	3460039	HELPER AIRBAG KIT (Contents: 2x 3460028 Air spring)	1	
2	3750955	TOP BRKT A	2	
3	3753229	TOP BRKT C	2	
4	3750827	TOP BRKT B	2	
5	3750870	BOTTOM BRKT	2	
6	3195374	BOTTOM PLATE	2	
7	3750814	INFLATION VALVE BRKT	1	
8	3750815	PURGE VALVE BRKT A	1	



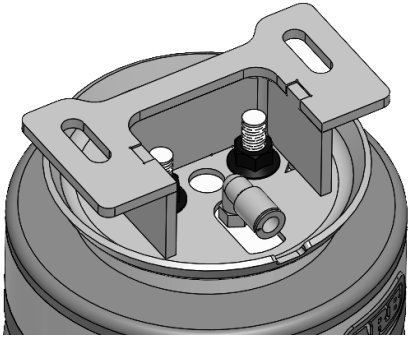
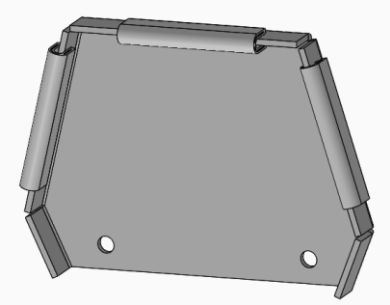
9	3750886	PURGE VALVE BRKT B	1	
10	3750885	SILENCER BRKT	1	
11	3468032	AIRBAG HEAT SHIELD	1	
12	6177708	PINCH WELD KIT	1	
13	3468021	INFLATION VALVE CAP KIT	1	
14	2125824	STKR WARNING – OME AIBAG KIT	1	
15	2125825	STKR WARNING – MAX PRESSURE	1	
16	3460029	AIR FITTING KIT	1	

<b>AIR FITTING KIT CONTENTS (3460029)</b>			
<b>ITEM</b>	<b>NAME</b>	<b>QTY</b>	
<b>AF1</b>	<b>ELBOW FITTING</b>	<b>2</b>	
<b>AF2</b>	<b>TEE FITTING</b>	<b>2</b>	
<b>AF3</b>	<b>STRAIGHT FITTING</b>	<b>6</b>	
<b>AF4</b>	<b>PURGE VALVE</b>	<b>2</b>	
<b>AF5</b>	<b>SILENCER</b>	<b>2</b>	
<b>AF6</b>	<b>CONNECTOR</b>	<b>2</b>	
<b>AF7</b>	<b>AIR LINE 06</b>	<b>6M</b>	
<b>AF8</b>	<b>AIR LINE 08</b>	<b>6M</b>	
<b>AF9</b>	<b>INFLATION VALVE</b>	<b>2</b>	


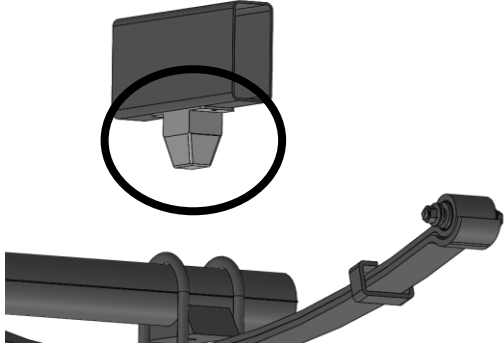
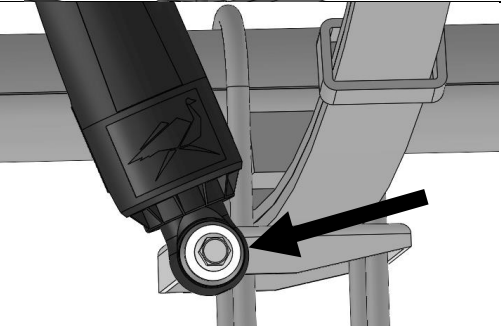
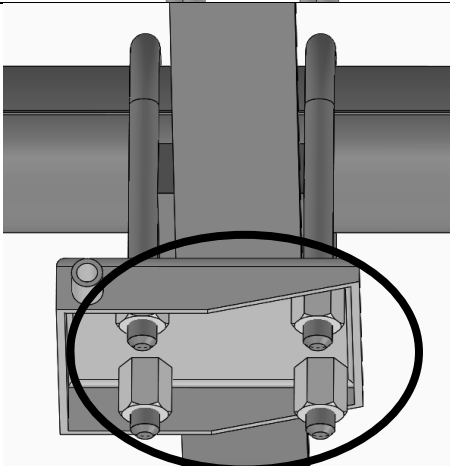
<b>FASTENERS</b>				
<b>ITEM</b>	<b>PART NUMBER</b>	<b>NAME</b>	<b>QTY</b>	
F1	6151320	BOLT M10x1.5x25	2	
F2	4584380	WASHER M10X22.9X2	2	
F3	4581292	WASHER SPRING M10	2	
F4	6151752	NUT FLANGE M10X1.5	4	
F5	6151882	SCREW M8x1.25x20	4	
F6	6152188	BOLT FL M8X1.25X25	4	
F7	6152008	BOLT FLANGE M6X1X25	6	
F8	6151300	NUT CAGED M6 2.6-3.5	2	
F9	6151561	NUT FLANGE M6	4	

# INSTRUCTIONS

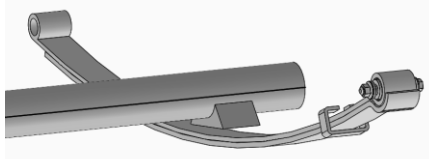
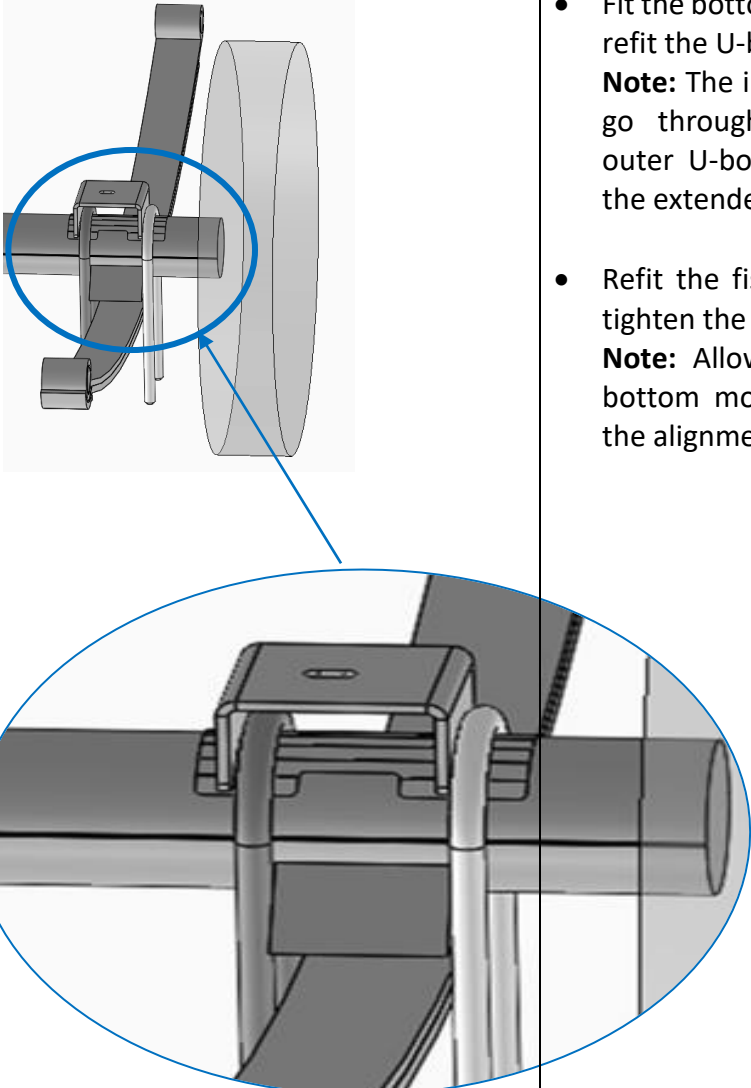

## PREPARATION

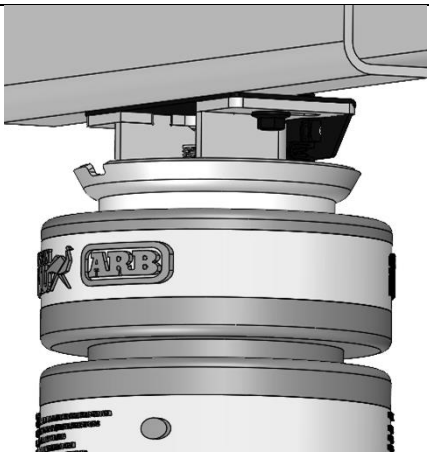
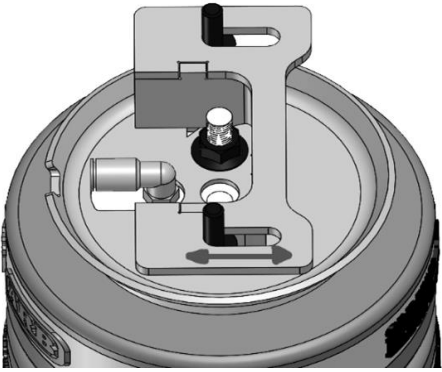
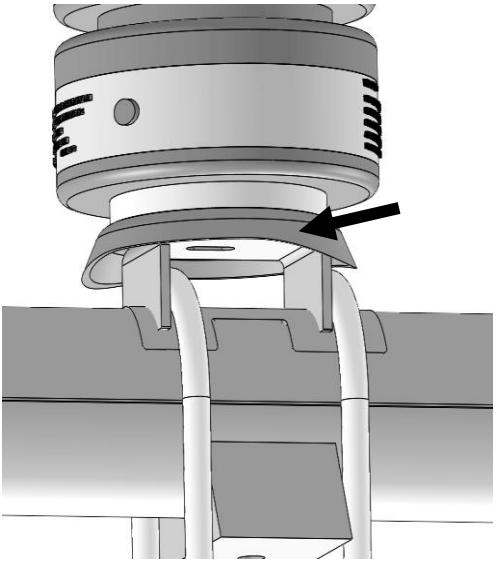
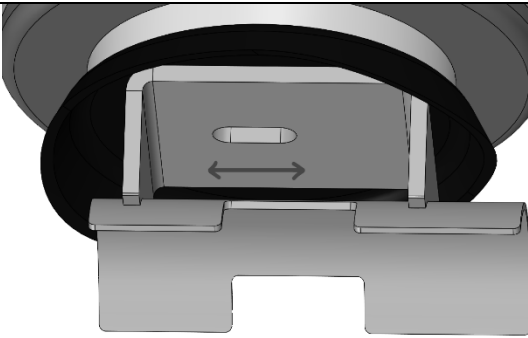
	<ul style="list-style-type: none"> <li>• Open the kit and check all the parts as per the lists above.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Prepare air bags.</li> <li>• Remove all the dust caps from airbags.</li> <li>• Fit the elbow air fittings.</li> </ul> <p><b>Note:</b> Make sure the push-in fitting can swivel freely between two studs; then let it face to the direction as per the picture.</p>	<p><b>Part:</b> 3460039 &amp; AF1</p> <p><b>Fastener:</b> NA</p> <p><b>Tool:</b> open spanner 12</p> <p><b>Torque:</b> Hand-torque</p>
	<ul style="list-style-type: none"> <li>• Fit top bracket A.</li> </ul>	<p><b>Part:</b> 3750955</p> <p><b>Fastener:</b> F4</p> <p><b>Tool:</b> socket 15</p> <p><b>Torque:</b> 30Nm</p>
	<ul style="list-style-type: none"> <li>• Fit 3 pinch welds to the 3753229.</li> </ul>	<p><b>Part:</b> 3753229 &amp; 6177708</p> <p><b>Fastener:</b> NA</p> <p><b>Tool:</b> NA</p> <p><b>Torque:</b> NA</p>

## ON VEHICLE

	<ul style="list-style-type: none"> <li>Lift vehicle on hoist. If you do not have a hoist, use a trolley jack.</li> <li>Support one rear wheel on axle stand.</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>Rear suspension fitment should be carried out one side at a time.</li> <li>Complete all steps for one side of the vehicle then repeat for the opposite side. (<i>Generic photo shown</i>)</li> </ul>	<p><b>Part:</b> NA</p> <p><b>Fastener:</b> NA</p> <p><b>Tool:</b> Hoist, axle stand</p> <p><b>Torque:</b> NA</p>
	<ul style="list-style-type: none"> <li>Remove the bump stop on the chassis rail by undoing 2 bolts.</li> </ul>	<p><b>Part:</b> NA</p> <p><b>Fastener:</b> NA</p> <p><b>Tool:</b> Spanner/ socket 12</p> <p><b>Torque:</b> NA</p>
	<ul style="list-style-type: none"> <li>Undo the upper (If required) and bottom mounts of shock absorber.</li> <li>Remove the shock absorber.</li> </ul>	<p><b>Part:</b> NA</p> <p><b>Fastener:</b> NA</p> <p><b>Tool:</b> socket 17</p> <p><b>Torque:</b> NA</p>
	<ul style="list-style-type: none"> <li>Remove U-bolts and fish plate by undoing 4 U-bolt nuts.</li> </ul>	<p><b>Part:</b> NA</p> <p><b>Fastener:</b> NA</p> <p><b>Tool:</b> Deep socket 19 Brake bar Ratchet</p> <p><b>Torque:</b> NA</p>

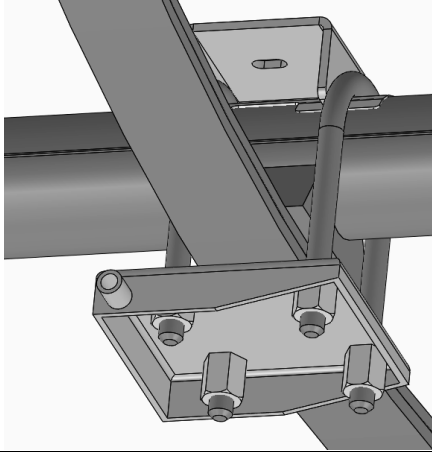


	<ul style="list-style-type: none"> <li>• Replace OE leaf spring with OME parabolic leaf spring.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Fit the bottom airbag mount and refit the U-bolts as shown. <b>Note:</b> The inner U-bolt needs to go through the bracket and outer U-bolt needs to go over the extended part of bracket.</li> <li>• Refit the fish plate and slightly tighten the 4 U-bolt nuts. <b>Note:</b> Allow some play of the bottom mount which can help the alignment to the airbag.</li> </ul>	<p><b>Part:</b> 3750870</p> <p><b>Fastener:</b> NA</p> <p><b>Tool:</b> Deep socket 19</p> <p><b>Torque:</b> NA</p>
<p>LH:</p> 	<ul style="list-style-type: none"> <li>• Cut heatshield as per shape and access on the exhaust tail pipe near air bag mounting area.</li> <li>• Wrap along with the exhaust pipe. <b>Note:</b> Recommended to wrap the sheet snug over the exhaust and overlap the extended part of the sheet around pipe if feasible.</li> <li>• Then secure it with the tie clip.</li> <li>• Cut the extended tie clip from the area.</li> </ul>	<p><b>Part:</b> 11</p> <p><b>Fastener:</b> NA</p> <p><b>Tool:</b> Plier, Sheet Cutter</p> <p><b>Torque:</b> NA</p>

	<ul style="list-style-type: none"> <li>Fit airbag assembly using OE bump stop mounting holes.</li> </ul> <p><b>Note:</b> Do not fully tighten these two bolts, which can help align the airbag.</p> <ul style="list-style-type: none"> <li>OE screws can be reused, or use provided bolts.</li> </ul>	<p><b>Part:</b> 3750827</p> <p><b>Fastener:</b> F6</p> <p><b>Tool:</b> Socket 12/13</p> <p><b>Torque:</b> 22Nm / Hand-torque if not feasible.</p>
	<p><b>Note:</b> Position of Top Bracket need to be adjusted to get more clearances with wheel/ tyres, exhaust, or fuel tank.</p>	
	<ul style="list-style-type: none"> <li>Place the BOTTOM BOWL between the airbag and BOTTOM BKT. Use the bolt to fasten it together, following the sequence: washer first, then spring washer, and finally the bolt. Tighten the bolt securely according to torque.</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>Bottom Bowl can be turned into any orientation for easy fitting the central bolt.</li> <li>Check that the Bottom Bowl is not touching the U-bolt or the axle purge fitting.</li> </ul>	<p><b>Part:</b> 3195374</p> <p><b>Fastener:</b> F1, F2, F3</p> <p><b>Tool:</b> Ratchet/ open spanner 16</p> <p><b>Torque:</b> 30Nm / Hand-torque if not feasible.</p>
	<p>Position of Bottom Bracket will need to be adjusted to get more clearances with wheel/tyres, exhaust, or fuel tank.</p>	

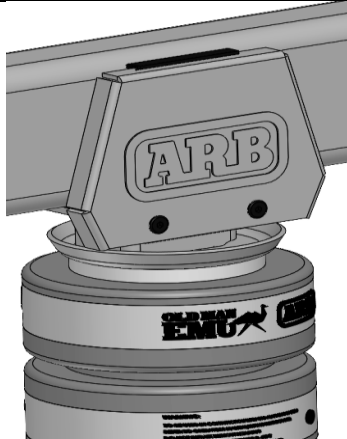
**Note:**

- Slots are present within the brackets for placement purposes. Consequently, the bracket positioning must be adjusted to achieve more clearances between the brackets and the adjacent components.
- Secure all fasteners as per torque specifications.



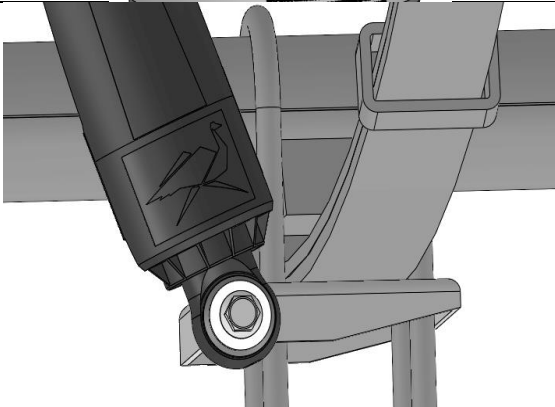
- Then secure the top 2 bolts and U-bolt nuts to the OE specified torque.

**Part:** NA  
**Fastener:** NA  
**Tool:**  
 Deep socket 19  
 Torque wrench  
**Torque:**  
 126Nm or Leaf  
 Specs



- Install the top side bracket and fasteners onto the airbag mounting bracket as shown.

**Part:**  
 3753229  
**Fastener:**  
 F5  
**Tool:** Allen key  
**Torque:** 22Nm



- Fit the OME shock absorber and tighten it to the torque specification.

**Part:** NA  
**Fastener:** NA  
**Tool:**  
 Socket 17  
 Torque wrench  
**Torque:**  
 Torque to  
 Damper Specs

**Repeat the entire process to fit the airbag to the other side.**



- Paste the warning sticker on the driver's door jamb.

**Part:** 2125824

**Check critical clearances:**

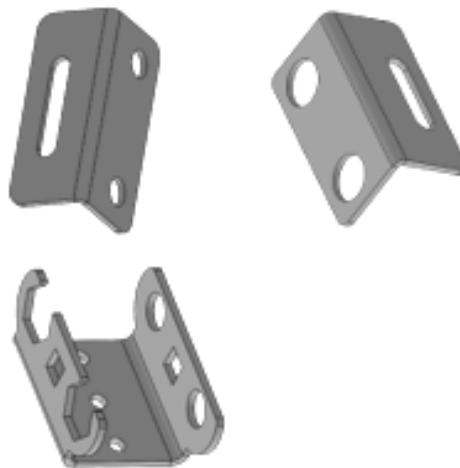
- **Wheels & Tyres**
- **Exhaust tail pipe**
- **Fuel Tank**

**INSTALLATION OF FITTINGS (GENERIC)**

Find suitable places for inflation valves, purge valves and silencers.  
**Recommended locations are as the table below. Before fitment, find the suitable locations for the below listed valves with minimum and easy routing.**

**Note:**

- *If length of existing airline is not sufficient to route, then use **OME666 (AIR LINE 6mm- 5M LENGTH)**.*
- *Teflon/PTFE tape wherever applicable for fittings.*



**Part**

- 3750814
- 3750815
- 3750885
- 3750886
- Teflon/ PTFE tape

**Fastener**

- 6152008
- 6151300
- 6151561

**Tool**

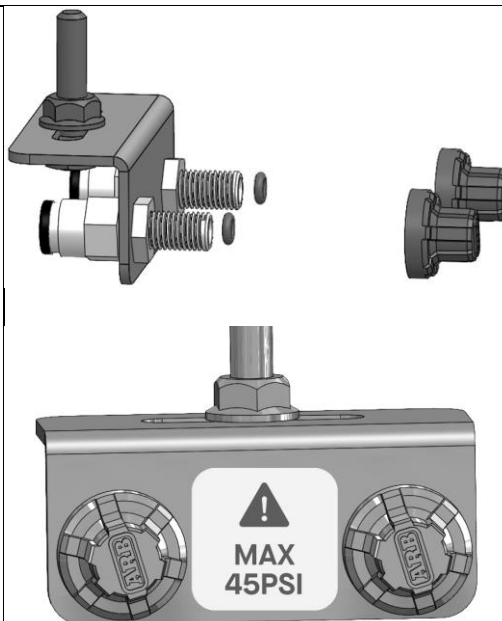
NA

**Torque**

NA

**1.1. INFLATION VALVE**

1. Fit inflation valves to the bracket and fit the cap kit.
2. Fit the O-ring to the cap first to provide better sealing.
3. Paste the sticker on the Bracket as shown.



**Part**

- 3750814
- 3468021
- AF9
- 2125825 (STKR Warning Max Pressure)

**Fastener**

- 6152008 (1)
- 6151561(1)

**Tool**

- Spanner 10, 12

**Torque**

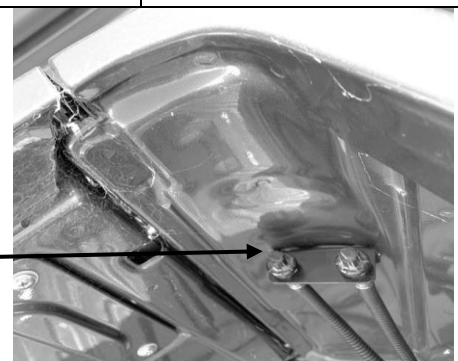
Hand-torque

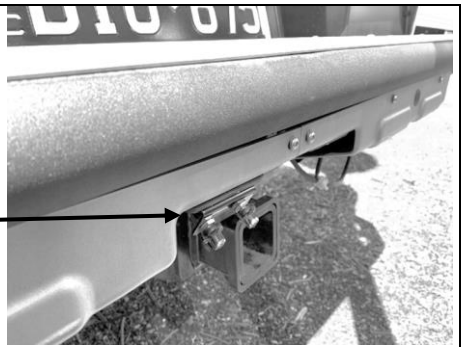

Recommend locations:

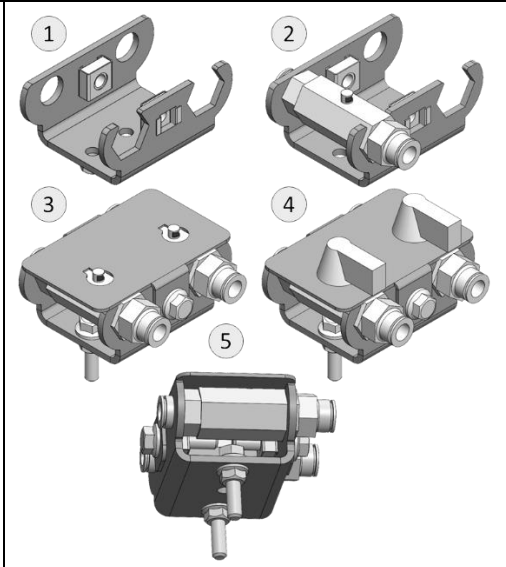
1<sup>st</sup>

Near tailgate inside tub

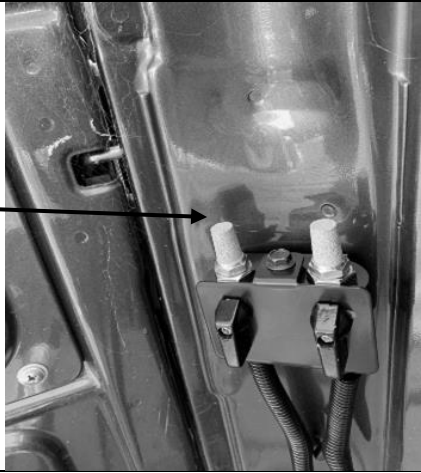

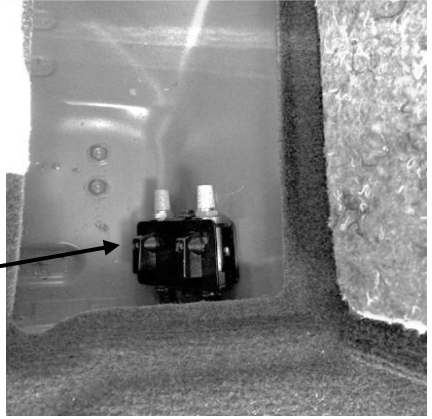
Example:  
 Hilux tub LHR corner next to tailgate

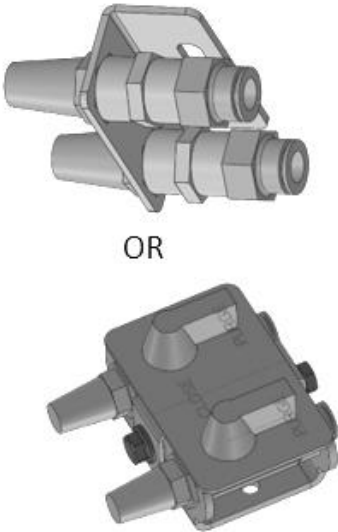


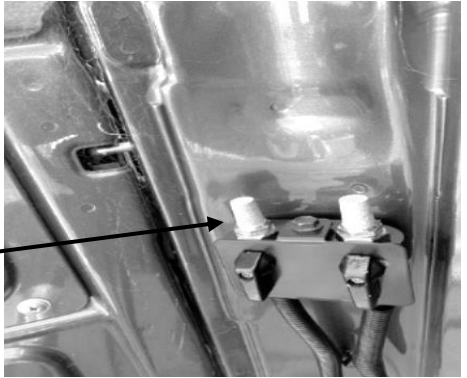


2 <sup>nd</sup>	Rear bar or chassis rail  Example: Under the rear bar (Hilux shown)	
3 <sup>rd</sup>	Inside passenger cabin  Example: Under or behind the rear seat	

<b>1.2. PURGE VALVE</b>		
<ol style="list-style-type: none"> <li>1. Fit caged nut to the bracket.</li> <li>2. Remove the handles of purge valves and fit straight fittings to the purge valves.</li> <li>3. Slide the purge valves into position then fit the cover.</li> <li>4. Refit the handles.</li> </ol> <p>Note:</p> <ul style="list-style-type: none"> <li>• The open half circle of the purge valves needs to face the purge sign</li> </ul>		<p><b>Part</b></p> <ul style="list-style-type: none"> <li>• 3750815</li> <li>• 3750886</li> <li>• AF3</li> <li>• AF4</li> </ul> <p><b>Fastener</b></p> <ul style="list-style-type: none"> <li>• 6152008 (4)</li> <li>• 6151561(1)</li> <li>• 6151300(2)</li> </ul> <p><b>Tool</b></p> <ul style="list-style-type: none"> <li>• Spanner 10</li> <li>• Screwdriver</li> </ul> <p><b>Torque</b></p> <p>Hand-torque</p>



Recommend locations	1 <sup>st</sup>	Near tailgate inside tub  Example: Corner tub next to tailgate	
	2 <sup>nd</sup>	Rear bar or chassis rail  Example: On the LC79 chassis rail	
	3 <sup>rd</sup>	Inside passenger cabin  Example: Under rear seat	

<b>1.3. SILENCER</b>		
<p>1. Fit connectors, silencers, and straight fittings to the silencer bracket</p> <p>2. The silencer can be directly fitted to the purge valve if the chosen location is suitable.</p>		<p><b>Part</b></p> <ul style="list-style-type: none"> <li>• 3750885</li> <li>• AF3</li> <li>• AF5</li> <li>• AF6</li> </ul>
		<p><b>Fastener</b></p> <ul style="list-style-type: none"> <li>• 6152008 (1)</li> <li>• 6151561 (1)</li> </ul>
<p>Note:</p> <ul style="list-style-type: none"> <li>• Silencer can produce audible sounds and emit smell while working.</li> </ul>		<p><b>Tool</b></p> <ul style="list-style-type: none"> <li>• Ratchet/Open spanner 10</li> </ul>
		<p><b>Torque</b></p> <p>Hand-torque</p>

Recommend locations	1 <sup>st</sup>	Directly fit to purge valve if it's inside canopy or tub with lid  Example: Hilux tub LHR corner next to tailgate	
	2 <sup>nd</sup>	Inside engine bay or outside cabin in a high point  Example: On the firewall under the bonnet of LC79	
	3 <sup>rd</sup>	Inside passenger cabin under the trim  Example: Under rear seat	

<b>1.4. ROUTING</b>	
<ol style="list-style-type: none"> <li>1. Connect all the air fittings as per the programs.</li> <li>2. 6mm tubes are only used from TEE fittings to inflation valves.</li> </ol> <p>Note:</p> <ul style="list-style-type: none"> <li>• Use a tube cutter to cut all the air tubes. Do not use side cutter or similar tools, because they may deform the tube and cause a leak.</li> <li>• Not all the supplied air fitting parts need to be used, depending on the chosen airline routes.</li> </ul>	<p><b>Part</b></p> <ul style="list-style-type: none"> <li>• AF2</li> <li>• AF3</li> <li>• AF7</li> <li>• AF8</li> </ul> <p><b>Fastener</b></p> <p>NA</p>

**There are three options to manage the inflation and deflation of the airbags:**

- 1) Manual control mode where you can use the inflation and deflation (purge) valve for each airbag separately.
- 2) App-controlled mode for inflation with manual or app control for deflation (purge) of airbags.
- 3) Linx control mode for inflation and manual or app control for deflation (purge).

**Based on the control module configuration selected, complete the routing. There are two different routing options provided for each configuration.**



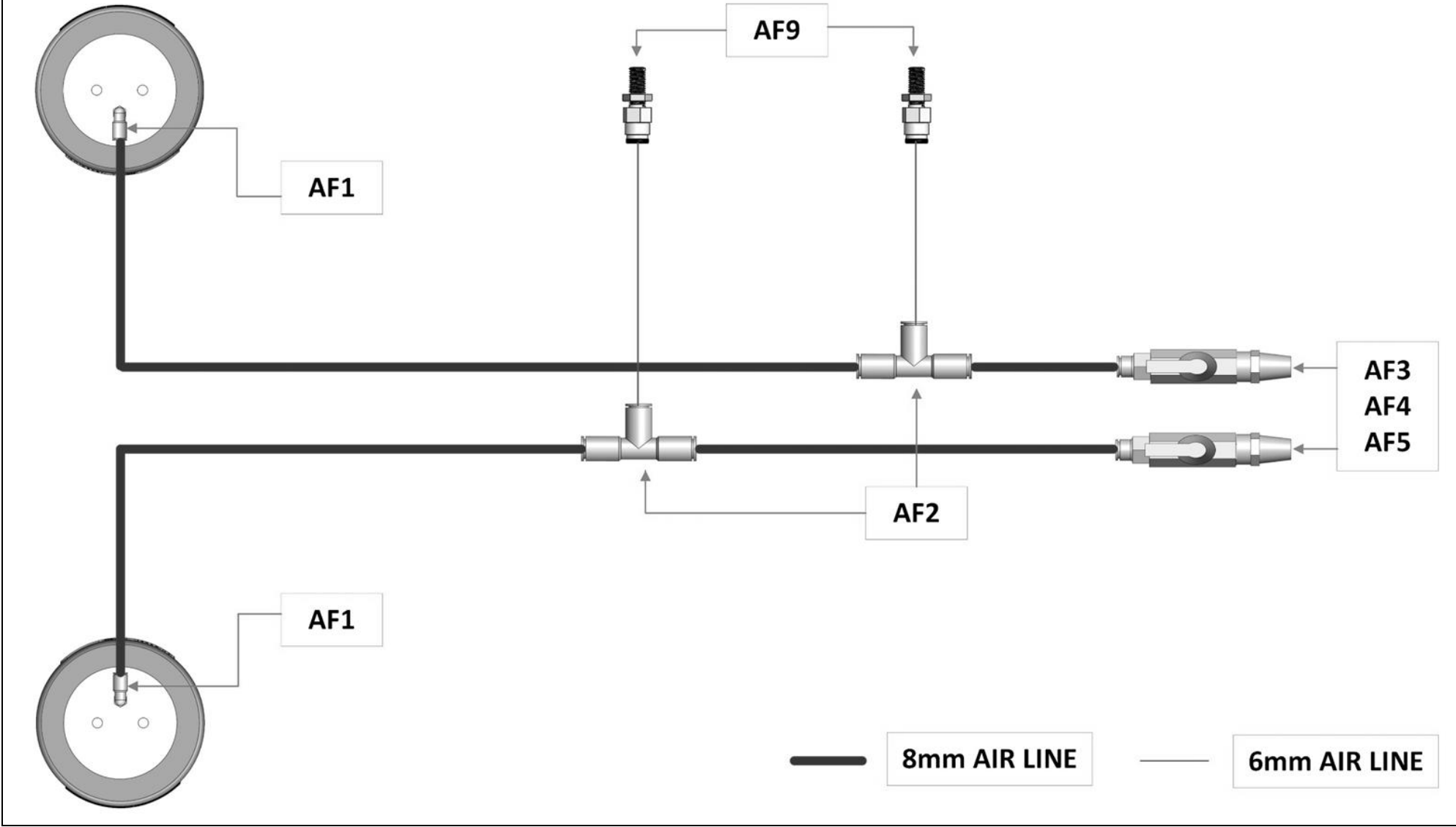
## Air Bag Control Module Configurations

Manual										
Sr. No.	Operation Mode	Control Mode	Purge Mode	Configuration	Air Bag Kit	OME Purge Control Kit	Air Suspension Module	LINX Pressure Control Kit	LINX Air Suspension Isolation Kit	Other Parts
1	Manual	Manual	Manual	Independent Air Bag with Purge (Ball) Valve	OMEAB00x	NA	NA	NA	NA	NA

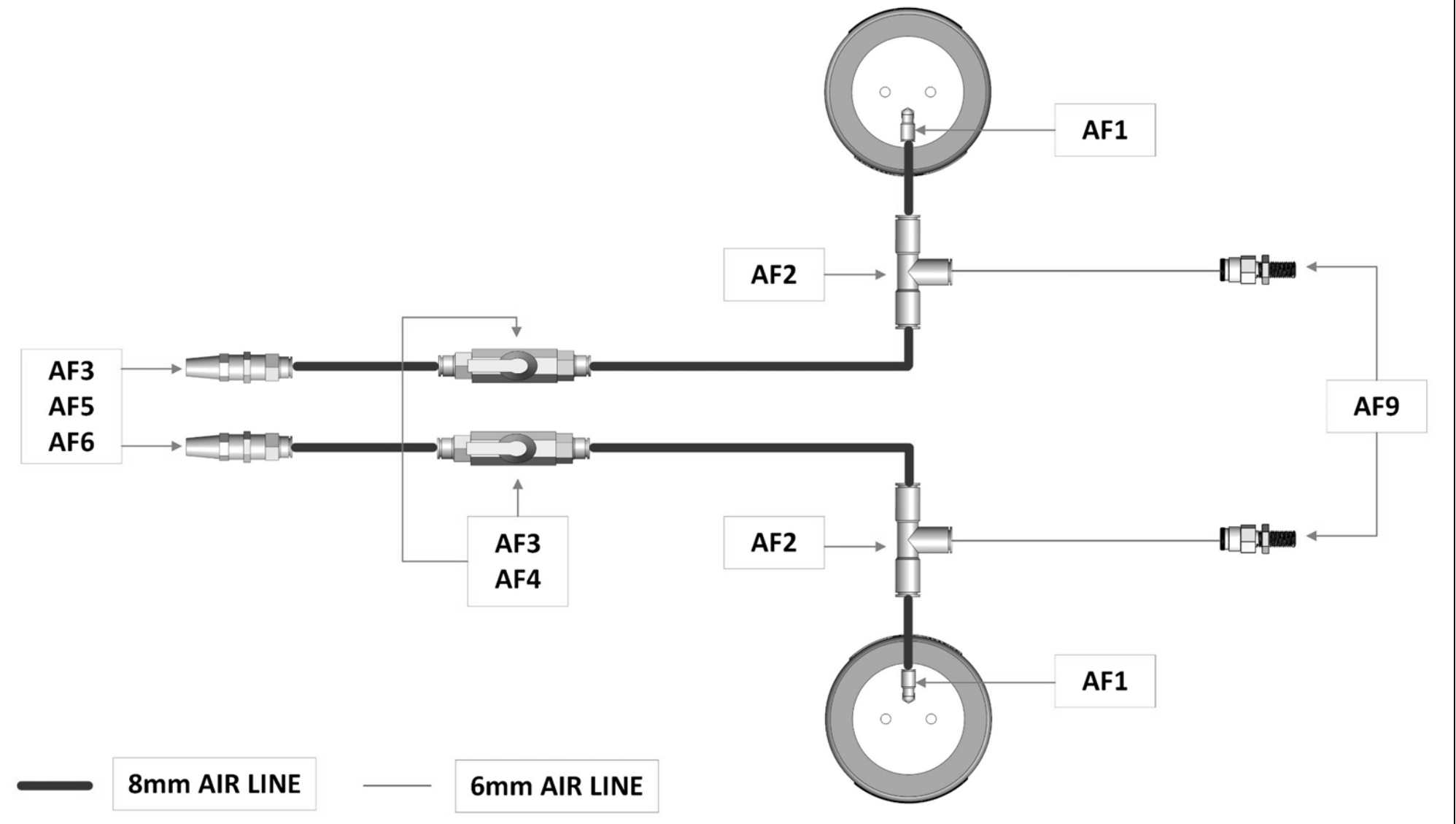
App Controlled										
Sr. No.	Operation Mode	Control Mode	Purge Mode	Configuration	Air Bag Kit	OME Purge Control Kit	Air Suspension Module	LINX Pressure Control Kit	LINX Air Suspension Isolation Kit	Other Parts
2	Pressure Operated	APP	Manual	One airline split to control 2 air bag pressures in isolation with no pathway between them. However, pressure will be same.	OMEAB00x	NA	1 X 0830002	NA	NA	NA
3	Pressure Operated	APP	APP	<b>PURGE + One</b> airline split to control 2 air bag pressures in isolation with no pathway between them. However, pressure will be same.	OMEAB00x	OMEABK001	1 X 0830002	NA	NA	NA

LINX Controlled										
Sr. No.	Operation Mode	Control Mode	Purge Mode	Configuration	Air Bag Kit	OME Purge Control Kit	Air Suspension Module	LINX Pressure Control Kit	LINX Air Suspension Isolation Kit	Other Parts
4	Pressure Operated	LINX	Manual	One airline split to control 2 air bag pressures independently with no pathway between them	OMEAB00x	NA	NA	1 x 7450107	1 x 7450109	NA
5	Pressure Operated	LINX	LINX	<b>PURGE + One</b> airline split to control 2 air bag pressures independently with no pathway between them	OMEAB00x	OMEABK001	NA	1 x 7450107	1 x 7450109	1 X 180425

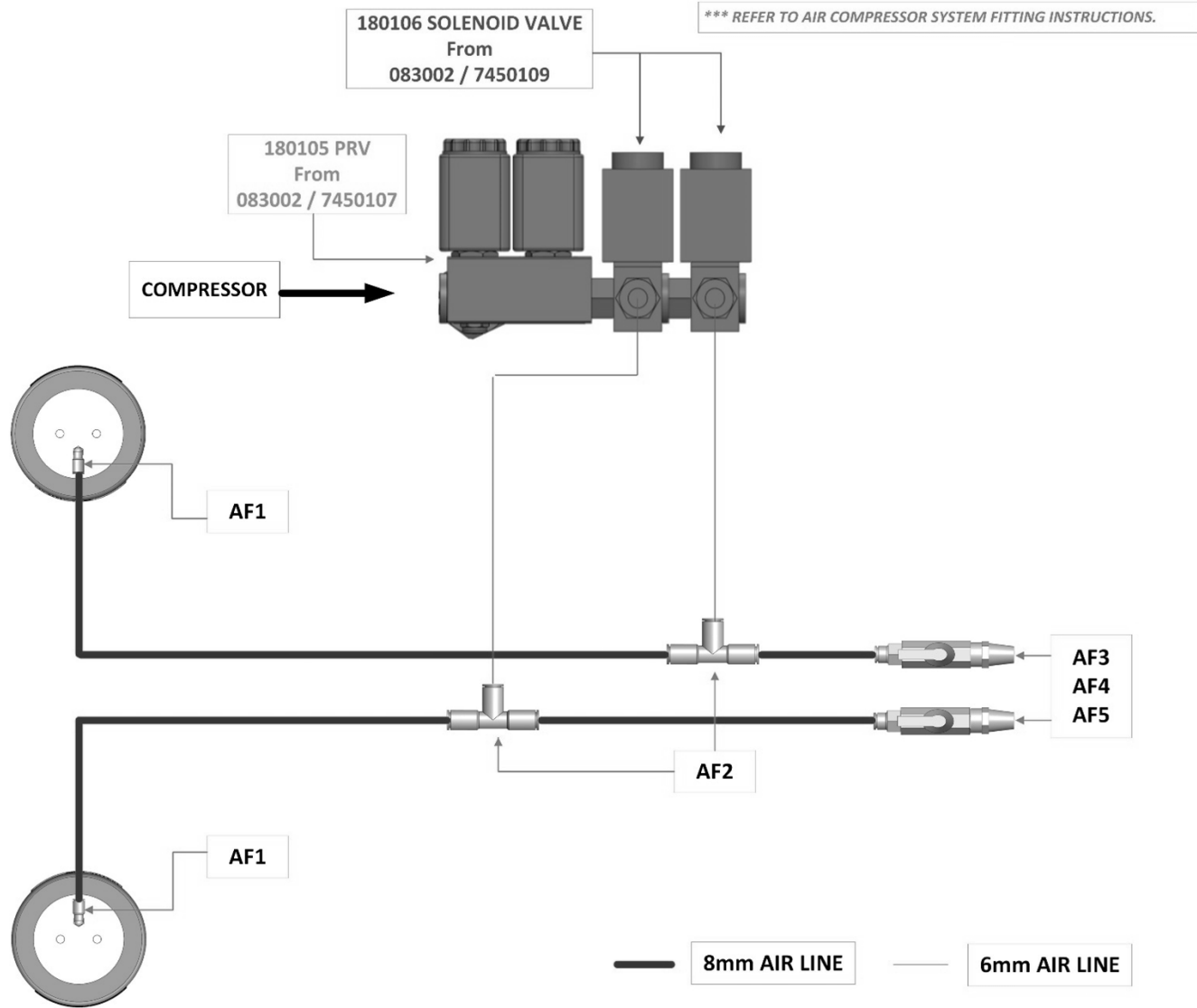
**CONFIGURATION 1: ROUTING 1**



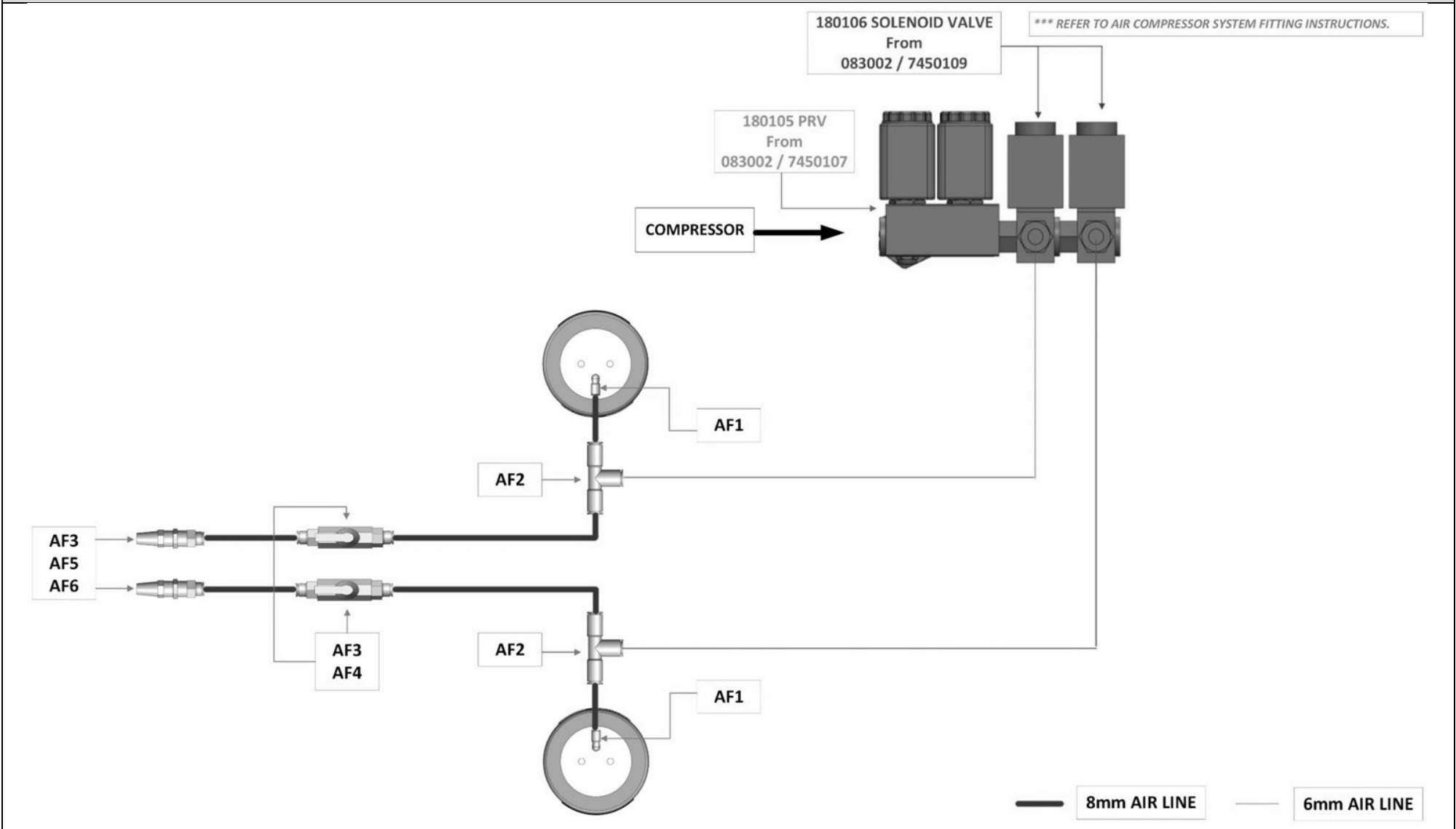
CONFIGURATION 1: *ROUTING 2*



CONFIGURATION 2 & 4: *ROUTING 1*

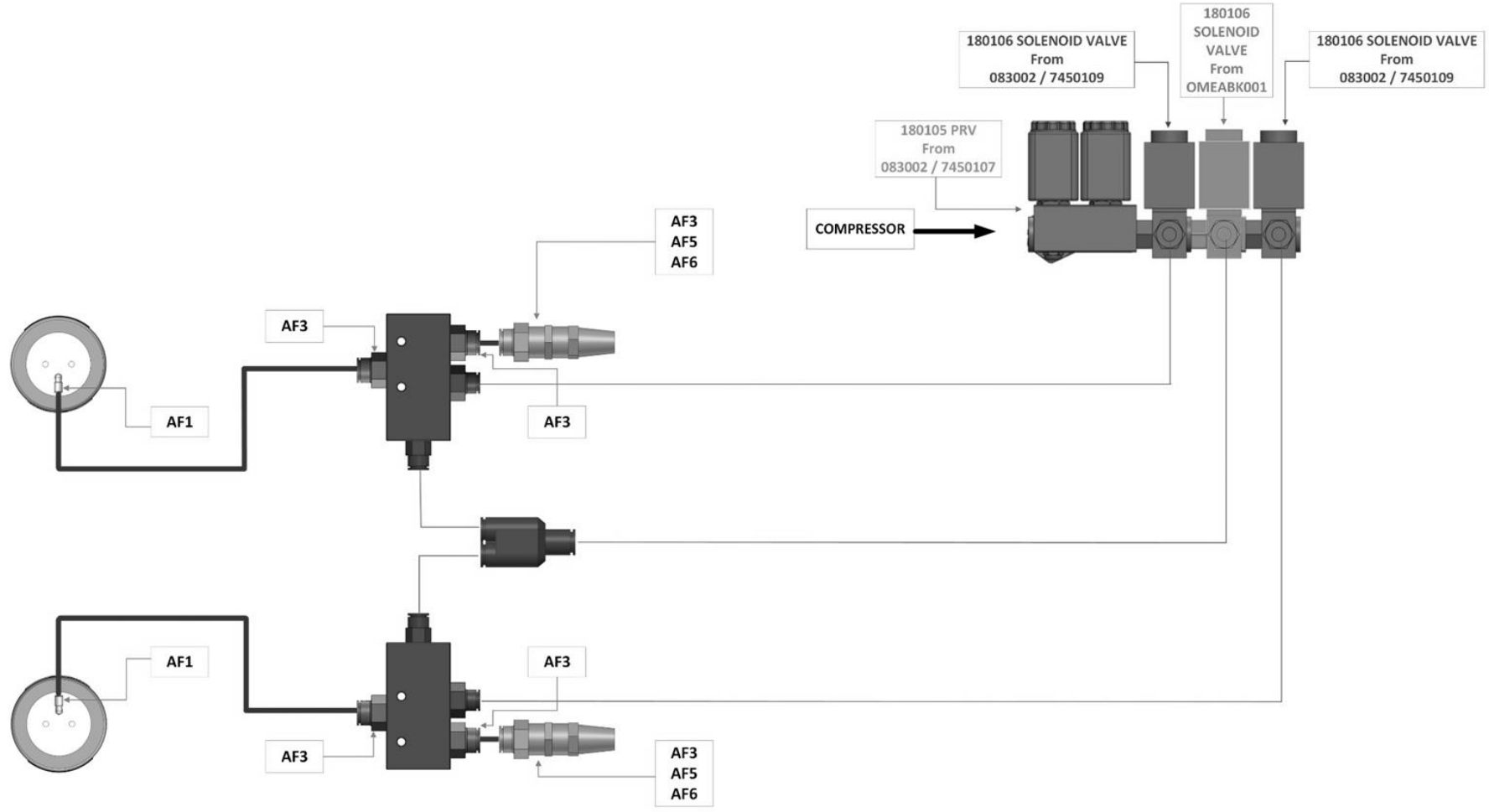


CONFIGURATION 2 & 4: ROUTING 2



**CONFIGURATION 3 & 5: ROUTING 1**

\*\*\* REFER TO AIR COMPRESSOR SYSTEM FITTING INSTRUCTIONS.

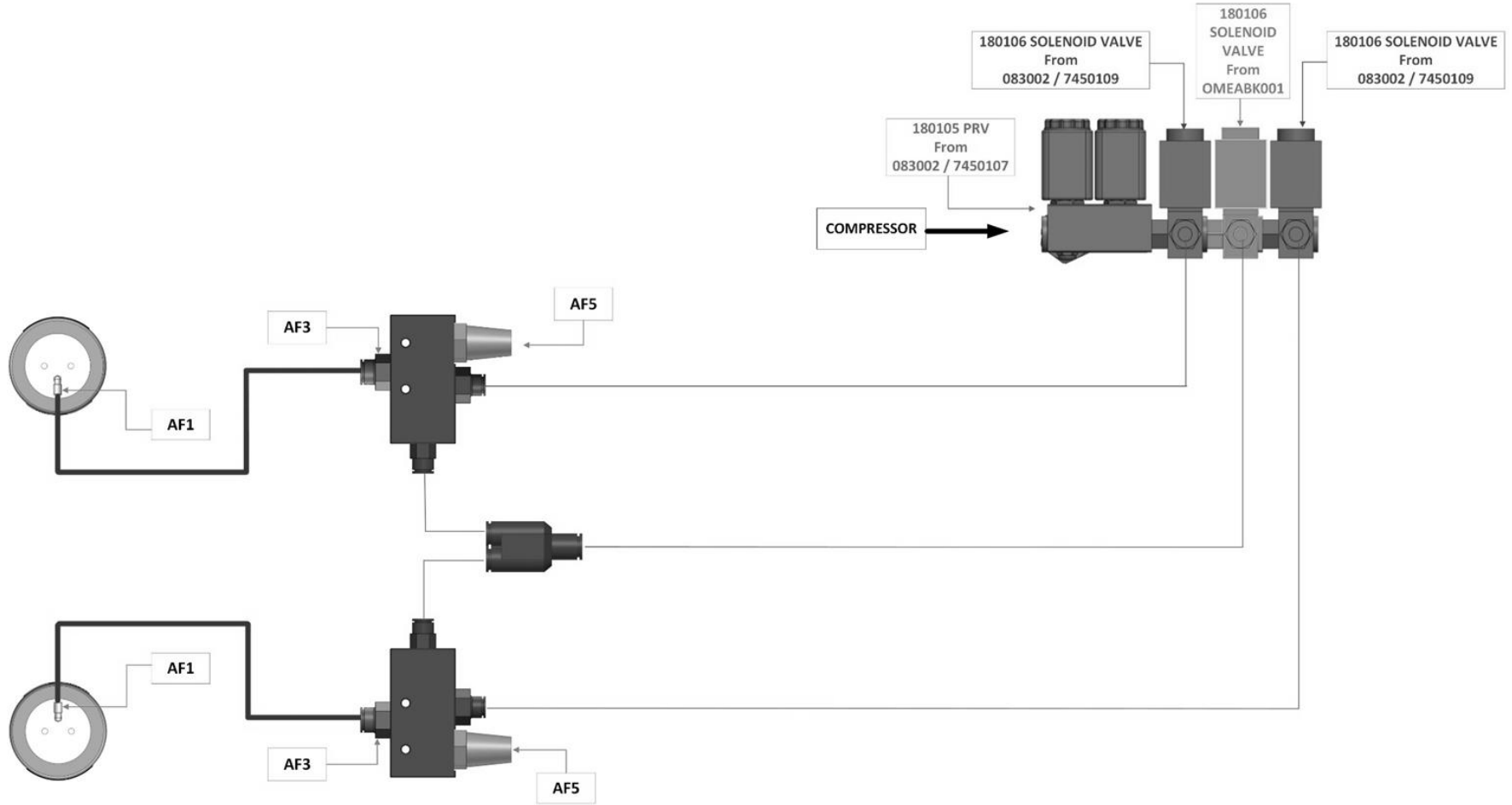


\*\*\* STRAIGHT AIR FITTINGS, UNION Y, PURGE VALVES, SOLENOID VALVE COME FROM OME PURGE CONTROL KIT (OMEABK001).

— 8mm AIR LINE — 6mm AIR LINE

**CONFIGURATION 3 & 5: ROUTING 2**

\*\*\* REFER TO AIR COMPRESSOR SYSTEM FITTING INSTRUCTIONS.



\*\*\* STRAIGHT AIR FITTINGS, UNION Y, PURGE VALVES, SOLENOID VALVE COME FROM OME PURGE CONTROL KIT (OMEABK001).

— 8mm AIR LINE — 6mm AIR LINE

<b>2. FINAL CHECK</b>	
<ol style="list-style-type: none"> <li>1. Verify that all fasteners are tightened securely according to the specified torque.</li> <li>2. Close the purge valves and inflate both airbags to 45 psi.</li> <li>3. Check the clearances of airbags and use soapy water to check if there are any leaks.</li> <li>4. Deflate both airbags to 0 psi or purge, check the ride height</li> </ol>	<b>Part</b> <ul style="list-style-type: none"> <li>• NA</li> </ul>
	<b>Fastener</b> <ul style="list-style-type: none"> <li>• NA</li> </ul>
	<b>Tool</b> <ul style="list-style-type: none"> <li>• Soapy water</li> <li>• Tyre inflator</li> </ul>
	<b>Torque</b> NA