

AIRBAG MOUNTING KIT

TO SUIT FORD RANGER NEXT GEN

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

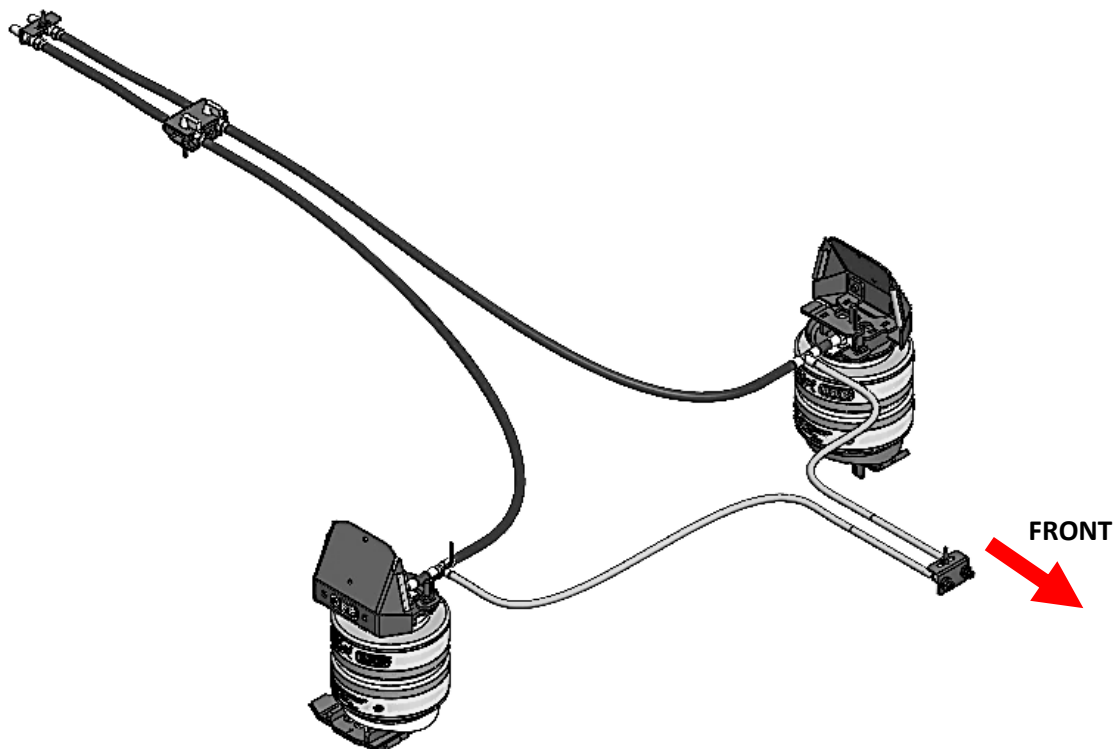
Protective
eyewear



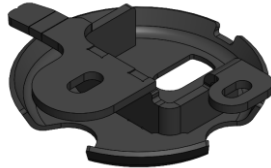
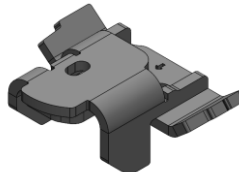
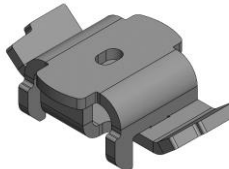
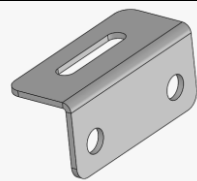
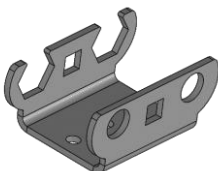
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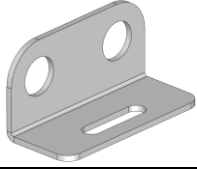
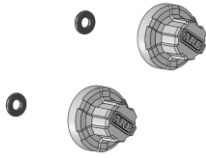
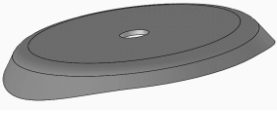
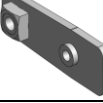


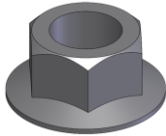
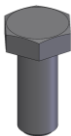
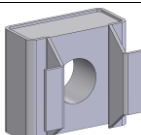
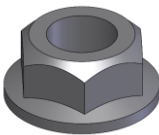
Hearing
protection

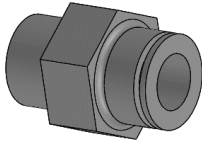
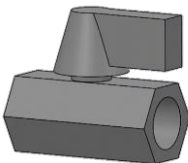
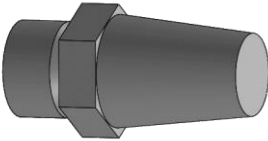
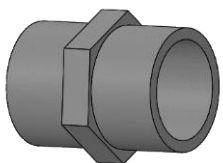
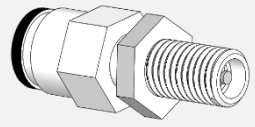


PART LIST

AIRBAG KIT (OMEAB004)				
ITEM	PART NUMBER	NAME	QTY	IMAGE
1	3460039	HELPER AIRBAG KIT (Contents: 2x 3460028 Air Bags)	1	
2	3755910	TOP BKT- RH	1	
3	37500156	TOP BKT- LH	1	
4	3755918	BOTTOM BKT- RH	1	
5	37500159	BOTTOM BKT- LH	1	
6	3468032	AIRBAG HEATSHIELD	1	
7	3460029	AIR FITTING KIT	1	Refer to Page 6
BRACKET AND FASTENERS KIT (6178191)				
8	3750814	INFLATION VALVE BRKT	1	
9	3750815	PURGE VALVE BRKT A	1	

10	3750886	PURGE VALVE BRKT B	1	
11	3750885	SILENCER BRKT	1	
12	3468021	INFLATION VALVE CAP KIT	1	
13	3755917R	CLINCH NUT BKT RH	1	
14	3755917L	CLINCH NUT BKT LH	1	
15	3195374	BOTTOM BOWL HILUX LC79	2	
16	2125824	STKR WARNING – OME AIBAG KIT	1	
17	2125825	STKR WARNING – MAX PRESSURE	1	
18	3197440	COVER PLATE	2	
19	3468048	BADGE MOUNT	2	

FASTENER KIT (6178192)				
F1	6151752	NUT FLANGE M10x1.5	4	
F2	4584380	WASHER FLAT M10x22.9x2	2	
F3	4581292	WASHER SPRING M10	2	
F4	6151320	SCREW HXHD M10x1.5x25	2	
F5	6152008	BOLT HXHD FL M6x1x25	6	
F6	6151300	NUT CAGED M6 2.6-3.5	2	
F7	6151561	NUT FLANGE M6x1.0	4	
F8	6151965	BOLT HXHD FL M10x1.5x30	2	
F9	6152187	BOLT HXHD FL M8x1.25x40	2	
F10	4584327	WASHER FLAT M6x16x1.2	2	
F11	6152014	SCREW BHD M6x1.0x12	2	
F12	6151649	SCREW BHD M4x16	2	

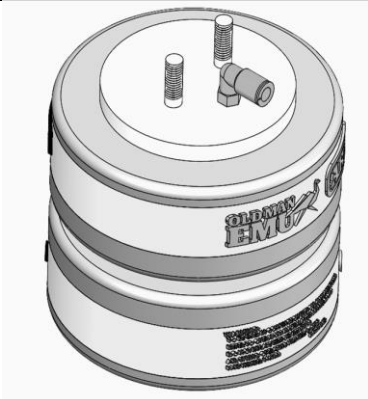
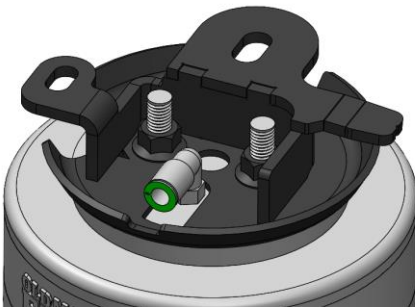
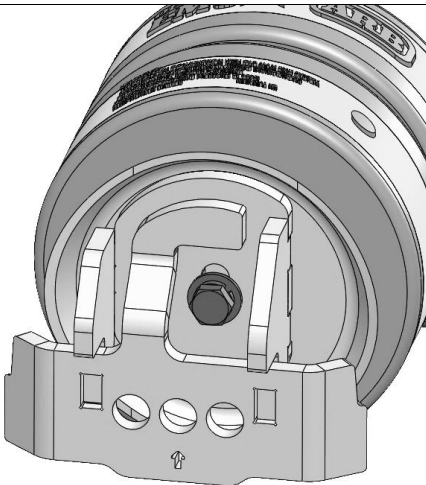
AIR FITTING KIT CONTENTS (3460029)			
ITEM	NAME	QTY	IMAGE
AF1	ELBOW FITTING	2	
AF2	TEE FITTING	2	
AF3	STRAIGHT FITTING	6	
AF4	PURGE VALVE	2	
AF5	SILENCER	2	
AF6	CONNECTOR	2	
AF7	AIR LINE 06	6M	
AF8	AIR LINE 08	6M	
AF9	INFLATION VALVE	2	

IMPORTANT

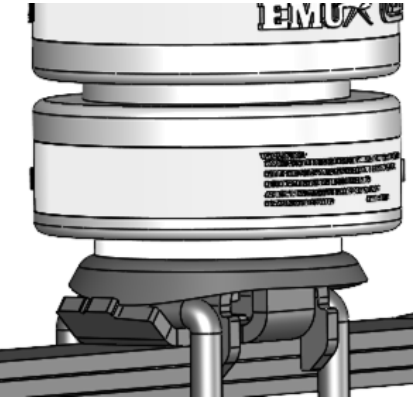
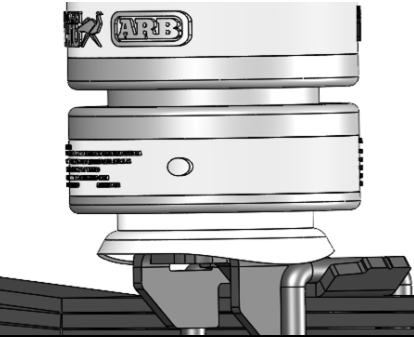
FK158 is required for Ranger models where the handbrake cable is routed as illustrated below, and when installed in conjunction with the Airbag Kit (OMEAB004). For ease of installation, it is recommended to fit this kit prior to the installation of Airbag Kit OMEAB004.

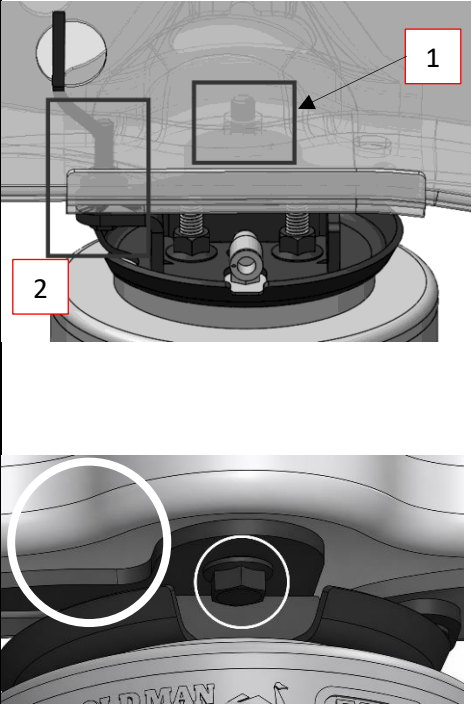
Please refer to fitting instructions 37800469 for detailed guidance.

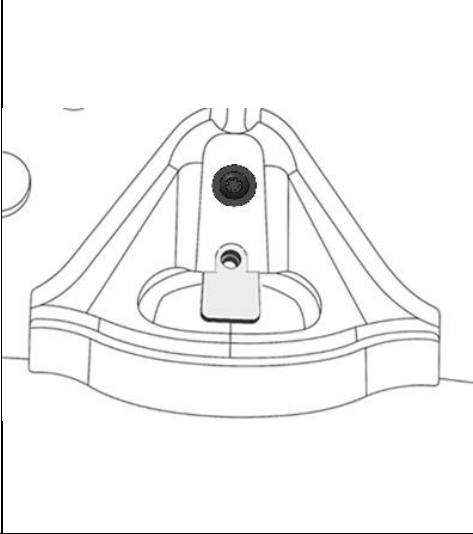
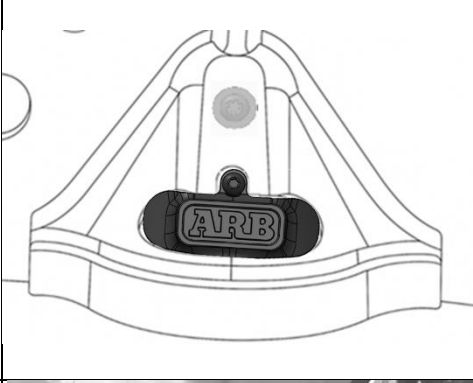


INSTRUCTIONS		
1. Open the kit and check all the parts as per the lists above.		Part • OMEAB004
		Fastener • NA
		Tool • NA
		Torque NA
2. Air Bag Preparation 2.1. Take out bags from the box. 2.2. Remove all the dust caps from airbags. 2.3. Fit the elbow air fittings with Teflon tape. 2.4. Make sure the push-in fitting can swivel freely between two studs then let it face to the direction as per the picture.		Part • 3460039 (Air Bags) • AF1 (Elbow fitting) • Teflon/ PTFE tape
		Fastener • NA
		Tool • Open Spanner 12
		Torque Hand-torque
3. Install the TOP BKT- RH/LH onto the Air Bags according to the image provided. (RH Shown) Note: • Make sure the push-in fitting is facing outwards as per the picture.		Part • 3755910/37500156 (TOP BKT- RH/LH)
		Fastener • 6151752 (M10 Flange Nut) 2 for each airbag
		Tool • Socket 15
		Torque 30Nm
4. Place the BOTTOM BOWL between the airbag and BOTTOM BKT-LH/RH. Use the bolt to fasten it together, following this sequence: Washer first, then Spring Washer, and finally the bolt. (RH Shown) Note: • Bottom bowl can be turned into any orientation for easy fitting the central bolt. • Don't tighten this bolt yet to allow the airbag sufficient freedom to align the TOP BKT- RH/LH with the mounting hole on the chassis. Tighten this bolt as per torque after the TOP BKT position is aligned on the chassis.		Part • 3195374 (Bottom Bowl) • 3755918 / 37500159 (Bottom BKT- RH/LH)
		Fastener • 4584380 (1 Each) (M10 Flat Washer) • 4581292 (1 Each) (M10 Spring Washer) • 6151320 (1Each) (M10x25 Bolt)
		Tool • Ratchet/ Open Spanner 16
		Torque 30Nm / Hand- torque if not feasible

ON VEHICLE		
5. Lift vehicle on hoist. If you do not have a hoist, use a trolley jack. Note: • <i>Shackle removal and reinstallation will be easier if the spare wheel is lowered from the vehicle prior to commencing work.</i>		Part • NA
		Fastener • NA
		Tool • Hoist • Axle stand
		Torque NA
6. Support one rear wheel on axle stand. Note: • <i>Rear suspension fitment should be carried out ONE SIDE AT A TIME. Complete all steps for one side of the vehicle then repeat for the opposite side. (Generic photo shown)</i>		Part • NA
		Fastener • NA
		Tool • Hoist • Axle stand
		Torque NA
7. Undo the bolt on the lower mount of the shock absorber and adjust its placement to facilitate the installation of the airbag and parabolic spring. Note: • <i>If applicable and required, release clips that hold brake lines to axle housing and vehicle body. Remove brackets securing ABS wiring to axle housing and vehicle body.</i> • <i>If applicable, unplug and remove position sensor from shackle.</i>		Part • NA
		Fastener • NA
		Tool • Socket/ Spanner 15
		Torque NA
8. Undo the four nuts on the U-bolts and then uninstall the U-bolts and fish plate.		Part • NA
		Fastener • NA
		Tool • Deep Socket 22 • Breaker bar • Ratchet
		Torque NA

9. Remove OE Leaf Spring and remove the bump stop on the chassis rail by undoing the bolt at the centre of the bump stop.		Part • NA Fastener • NA Tool • Socket – 13 • Extension bar • Ratchet Torque NA
10. The OE U-Bolt bump plate is not required for our application and can be removed and left out.		Part • NA Fastener • NA Tool • NA Torque NA
11. Replace OE leaf spring with OME parabolic leaf spring. Note: • <i>Only fit front and rear shackle. Do not fit U bolt.</i>		Part & Fastener As per leaf spring selection Tool & Torque As per leaf spring installation
12. Install AIRBAG with BOTTOM BOWL and the BOTTOM BKTs and fit the U-bolts. Note: • <i>The inner U-bolt needs to go through the bracket. Slightly tighten the 4 U-bolt nuts. Allow sufficient play of the bottom mount to help the alignment to the airbag.</i> • <i>Bottom bowl can be turned into any orientation for easy fitting the central bolt.</i> • <i>Check Bottom bowl not touching the U-bolt / axle purge/breather fitting.</i>	LH  RH 	Part • NA Fastener • Deep Socket 22 • Breaker bar • Ratchet Tool • NA Torque NA

13. TOP BRACKET ASSEMBLY - Position the AIR BAG pre-assembled with the TOP BKT - RH/LH and align so that the holes match on the TOP BKT and chassis. - Insert the bolt 6151965 (#1 in Image- RH shown) and get it started, but do not tighten it yet. - Align the Bolt 6152187 (#2 in image) with the TOP BKT and Chassis and Insert the CLINCH NUT BKT RH/LH 3755917R/L through the hole from top side of the chassis and use fingers to blindly locate the Nut through the inside of the chassis to get it aligned and hand fasten the bolt to get started with the nut through the chassis.		Part 3755917R/L <i>(Clinch Nut BKT- RH/ LH)</i> Fastener 6151965 (1 Each) <i>(M10x30 Flange HD Bolt)</i> 6152187 (1 Each) <i>(M8x40 Flange HD Bolt)</i> Tool - Spanner/Ratchet Wrench - 12, 15 Torque 30Nm
14. Tightening - Position the airbag in an upright manner by adjusting the top and bottom mounts. Ensure that there is sufficient clearance around the airbag and adequate flexibility in brake lines and electrical connections. - Then, tighten the top and bottom bolts used for the TOP BKT A/B, and U-bolt nuts to the OE specified torque as per U bolt tightening sequence.		Part - NA Fastener - NA Tool - Deep socket 22 - Torque wrench Torque 126Nm (U BOLT Nut) Follow torque stages as per leaf Spring installation.

15. Fit the OME shock absorber and tighten it to the torque specification.		Part • NA Fastener • NA Tool • Socket/Spanner 15 • Torque wrench Torque Torque to damper specification.
16. Fitment of Badge Mount Cover Plate <i>(If the top mount bracket is different, or the provided badge mount is not suitable, skip the fitment of the badge mount and cover plate.)</i> • Insert the cover plate inside the top mount bracket, then loosely tighten it with the screw, ensuring the spacer is placed in between. • Align the bottom hole so that the badge mount can be installed easily.		Part • 3197440 <i>(Cover Plate)</i> Fastener • 4584327 <i>(M6x16 Washer)</i> • 6152014 <i>(M6x12 BHD Screw)</i> Tool • Hex Key Torque Hand torque
17. Fitment of Badge Mount <i>(If the top mount bracket is different, or the provided badge mount is not suitable, skip the fitment of the badge mount and cover plate.)</i> • Insert the badge mount and hand-tighten it with the screw. • After tightening the screw at the bottom hole, tighten the top screw.		Part • 3468048 <i>(Badge Mount)</i> Fastener • 6151649 <i>(M4x16 BHD Screw)</i> Tool • Hex Key Torque Hand- torque
18. Note: Only if required and where applicable, Plug and install position sensor on the shackle. refit clips that hold brake lines to axle housing and vehicle body. Refit brackets securing ABS wiring to axle housing and vehicle body. *Image for representative purpose only		Part • NA Fastener • NA Tool • NA Torque 14Nm

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

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



Part

- 2125824

21. Heat Shield Installation

Assessment & Planning:

- **Assess the clearance with Airbag:** Examine the area around the OME AIRBAG Suspension system/ air bag to identify any potential heat source like OE/aftermarket exhaust pipes that may require adequate insulation.
- **Measure heat shield area:** Determine the dimensions of the heat shield required to cover the exposed area of exhaust pipe and provide adequate insulation.
- **Figure out the location for locking ties:** Identify suitable points on the vehicle's structure to secure the heat shield on exhaust pipe using locking ties.

Installation:

- **Preparation:** Using appropriate tools, carefully cut the heat shield material according to the measured dimensions.
- **Wrap Heat Shield:** Place the cut heat shield material in the appropriate position, ensuring it covers the exposed area adequately and provides insulation against heat sources.
- **Tie:** Use the locking ties to secure the heat shield tightly in place, ensuring it remains securely fixed during vehicle operation. Cut the excess bit from the stainless-steel ties.

Note:

- *When handling glass wool, ensure you use proper protective gear such as Gloves, Safety Glasses and a Mask to avoid any potential irritation or injury.*

22. 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

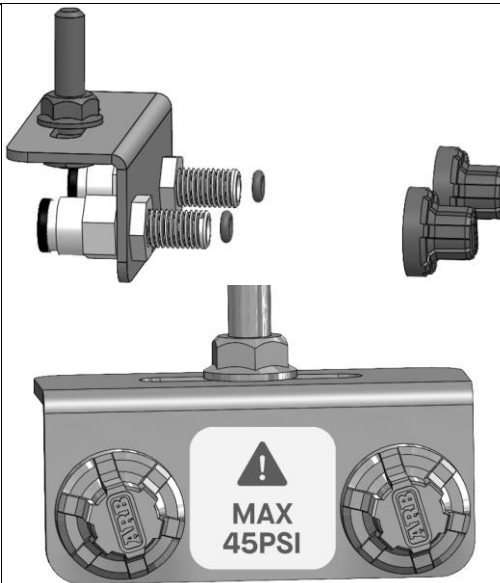
NA

Torque

NA

22.1. 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 (Inflation Valve BKT)
- 3468021 (Inflation Valve Caps)
- AF9 (Inflation Valve)
- 2125825 (STKR Warning Max Pressure)

Fastener

- 6152008 (1) (M6x25 Flange HD Bolt)
- 6151561 (1 Each) (M6 Flange Nut)

Tool

- Spanner 10, 12

Torque

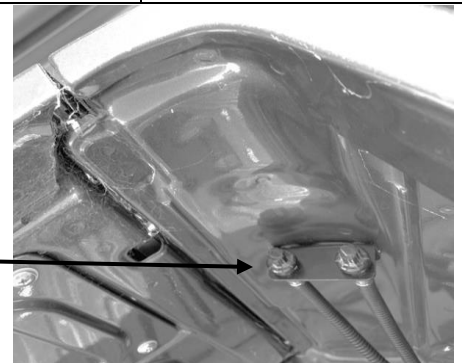
Hand-torque

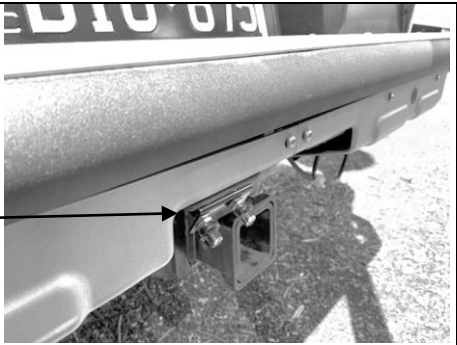
Recommended locations:

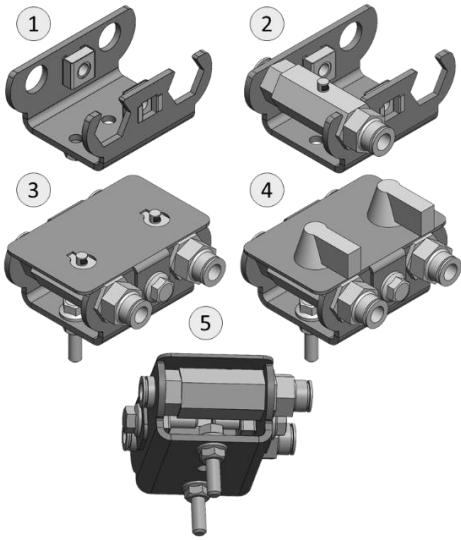
1st

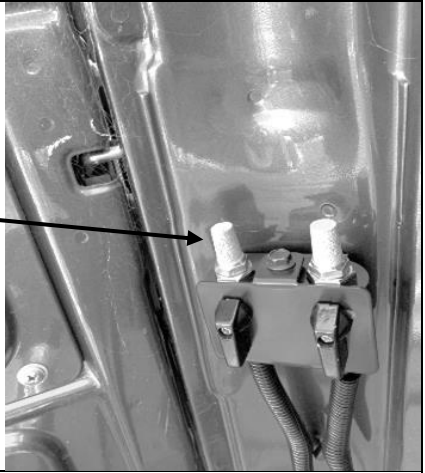
Near tailgate inside boot.

Example:
Hilux boot LHR corner
next to boot gate



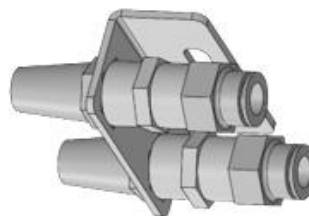
	2 nd	Rear bar or chassis rail. Example: Under the rear bar	
	3 rd	Inside passenger cabin. Example: Under or behind the rear seat	

22.2. PURGE VALVE		
1. Fit caged nut to the bracket. 2. Remove the handles of purge valves and fit straight fittings to the purge valves. 3. Slide the purge valves into position then fit the cover. 4. Refit the handles. Note: • The open half circle of the purge valves needs to face the purge sign		Part • 3750815 (Purge Valve BKT A) • 3750886 (Purge Valve BKT B) • AF3 (Straight Fitting) • AF4 (Purge Valve)
		Fastener • 6152008 (4 Each) (M6x25 Flange HD Bolt) • 6151561 (2 Each) (M6 Flange Nut) • 6151300 (2 Each) (M6 Cage Nut)
		Tool • Spanner 10 • Screwdriver
		Torque Hand-torque

Recommend locations:	1 st	Near tailgate inside boot Example: Corner next to boot gate. 
	2 nd	Rear bar or chassis rail Example: On the LC79 chassis rail 
	3 rd	Inside passenger cabin Example: Under rear seat 

22.3. SILENCER

1. Fit connectors, silencers, and straight fittings to the silencer bracket
2. The silencer can be directly fitted to the purge valve if the chosen location is suitable.



OR



Note:

- Silencer can produce audible sounds and emit smell while working.

Part

- 3750885
(Silencer BKT)
- AF3 (Straight Fitting)
- AF5 (Silencer)
- AF6 (Connector)

Fastener

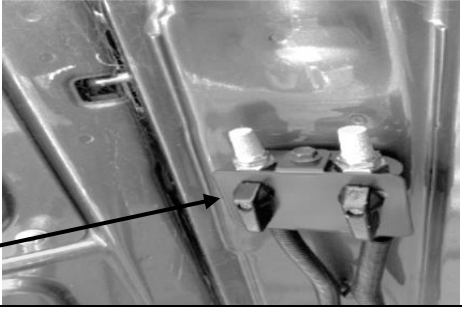
- 6152008 (1)
(M6x25 Flange HD Bolt)
- 6151561 (1)
(M6 Flange nut)

Tool

- Ratchet/Open spanner 10

Torque

Hand-torque

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

22.4. ROUTING

1. Connect all the air fittings as per the programs.
2. 6mm tubes are only used from TEE fittings to inflation valves.

Note:

- 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.
- Not all the supplied air fitting parts need to be used, depending on the chosen airline routes.

Part

- AF2 (Tee Fitting)
- AF3 (Straight Fitting)
- AF7 (Air Line 6mm)
- AF8 (Air Line 8mm)

Fastener

NA

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.

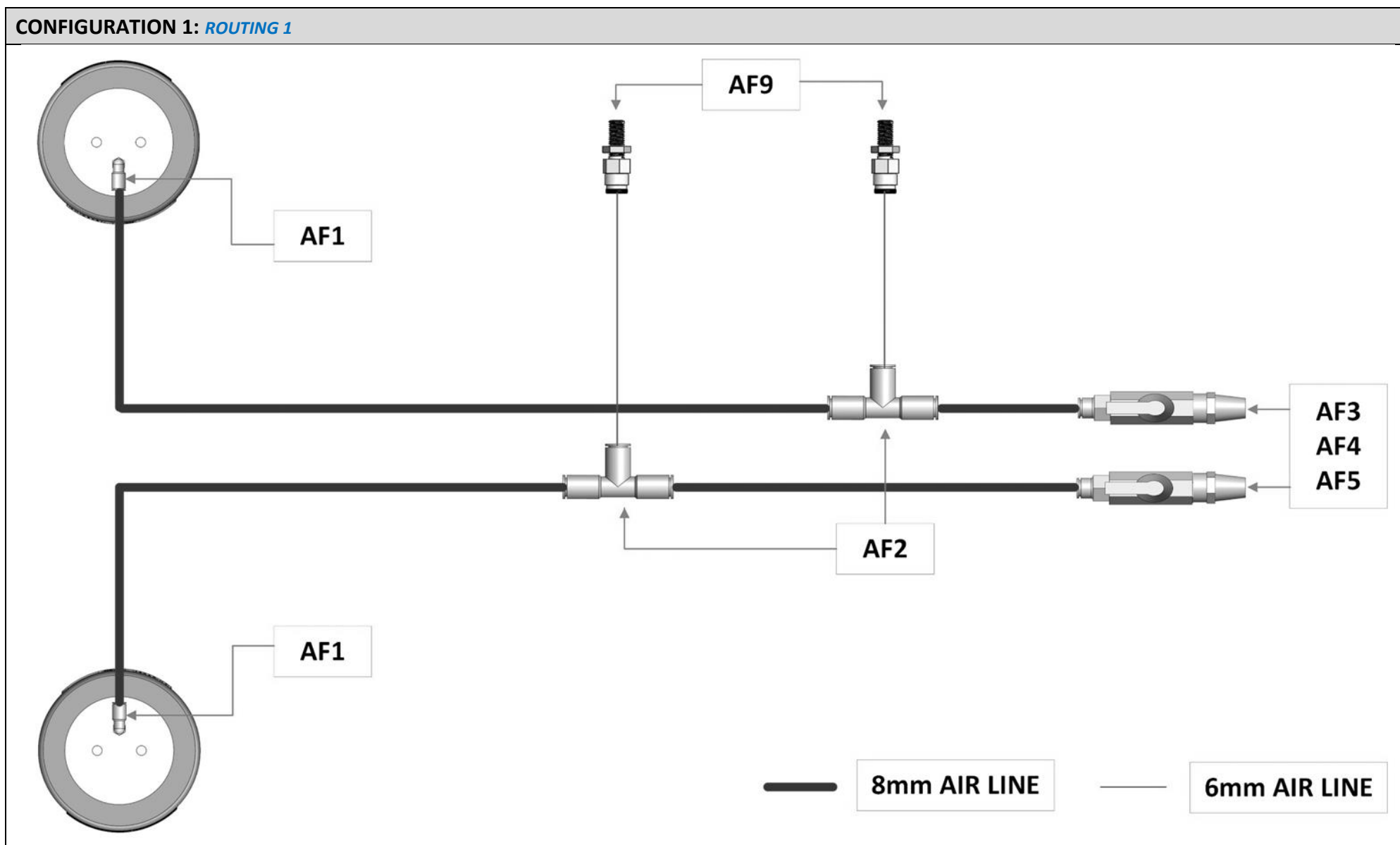
Air Bag Control Module Configurations

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

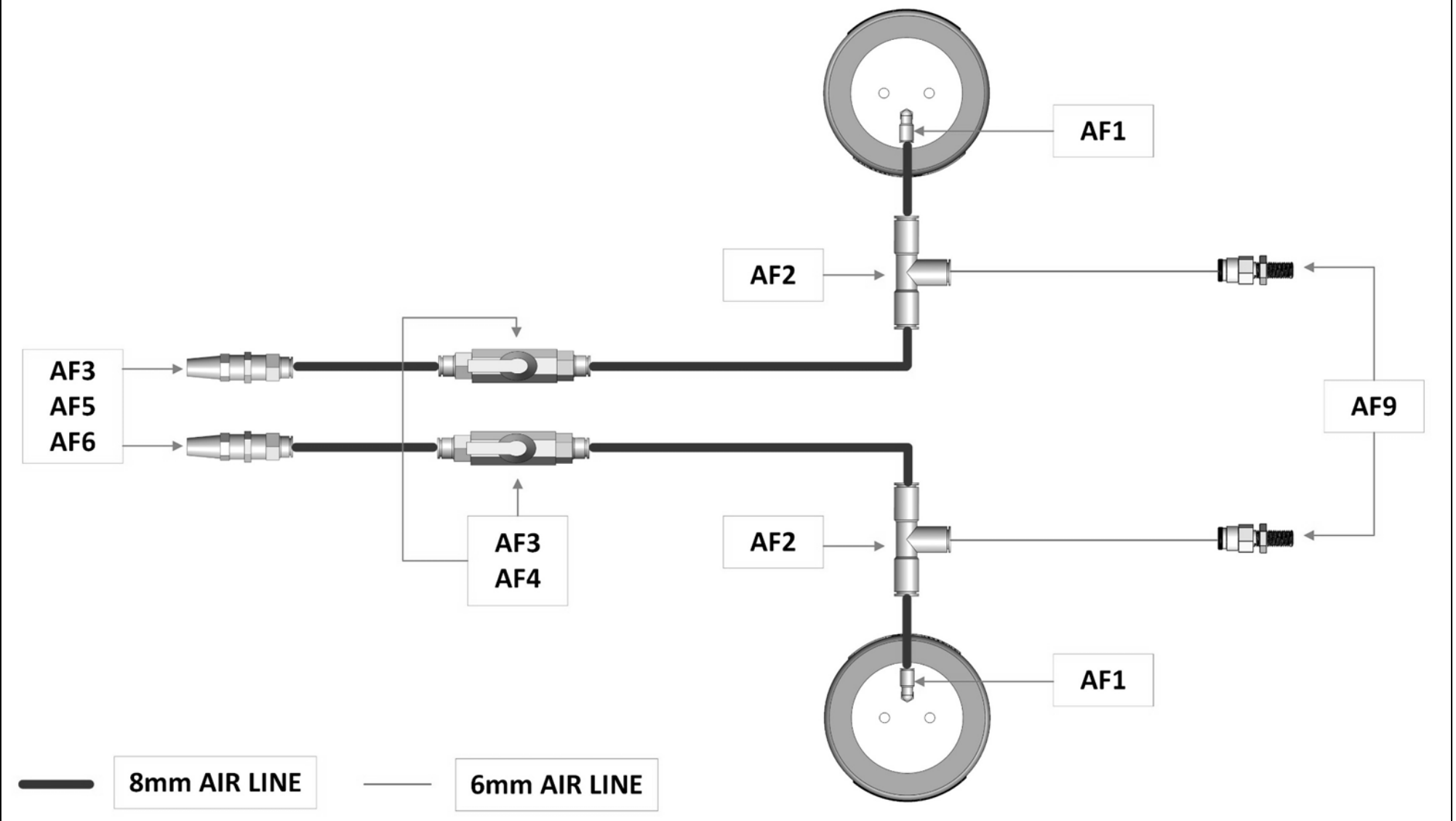
App Controlled										
Sr. No.	Operation Mode	Control Mode	Purge Mode	Configuration	Air Bag Kit	OME Purge Control Kit	Air Suspension Module	LINX Pressure Control Kit	LINX Air Suspension Isolation Kit	Other Parts
2	Pressure Operated	APP	Manual	One airline split to control 2 air bag pressures in isolation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

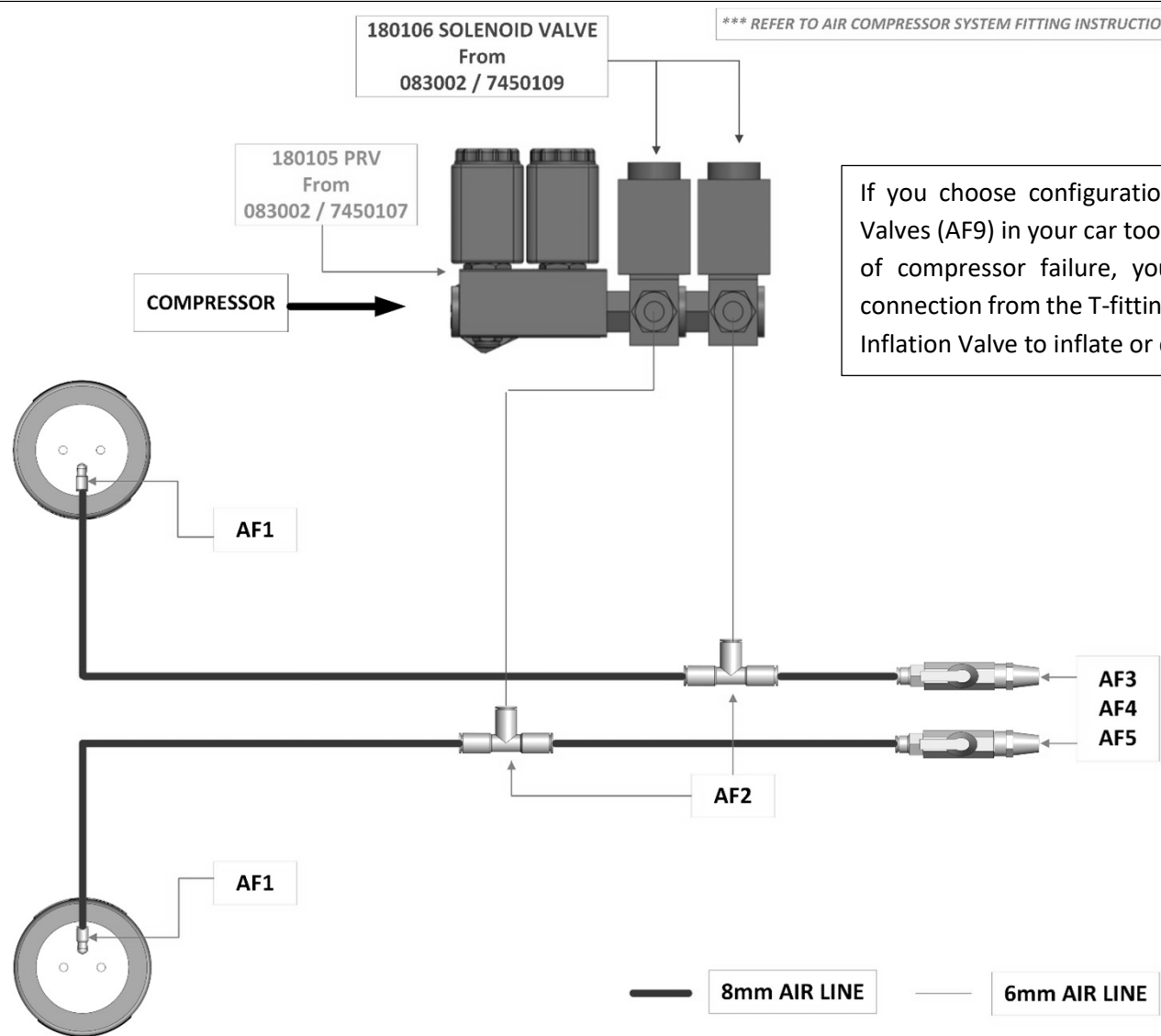
CONFIGURATION 1: *ROUTING 1*



CONFIGURATION 1: *ROUTING 2*

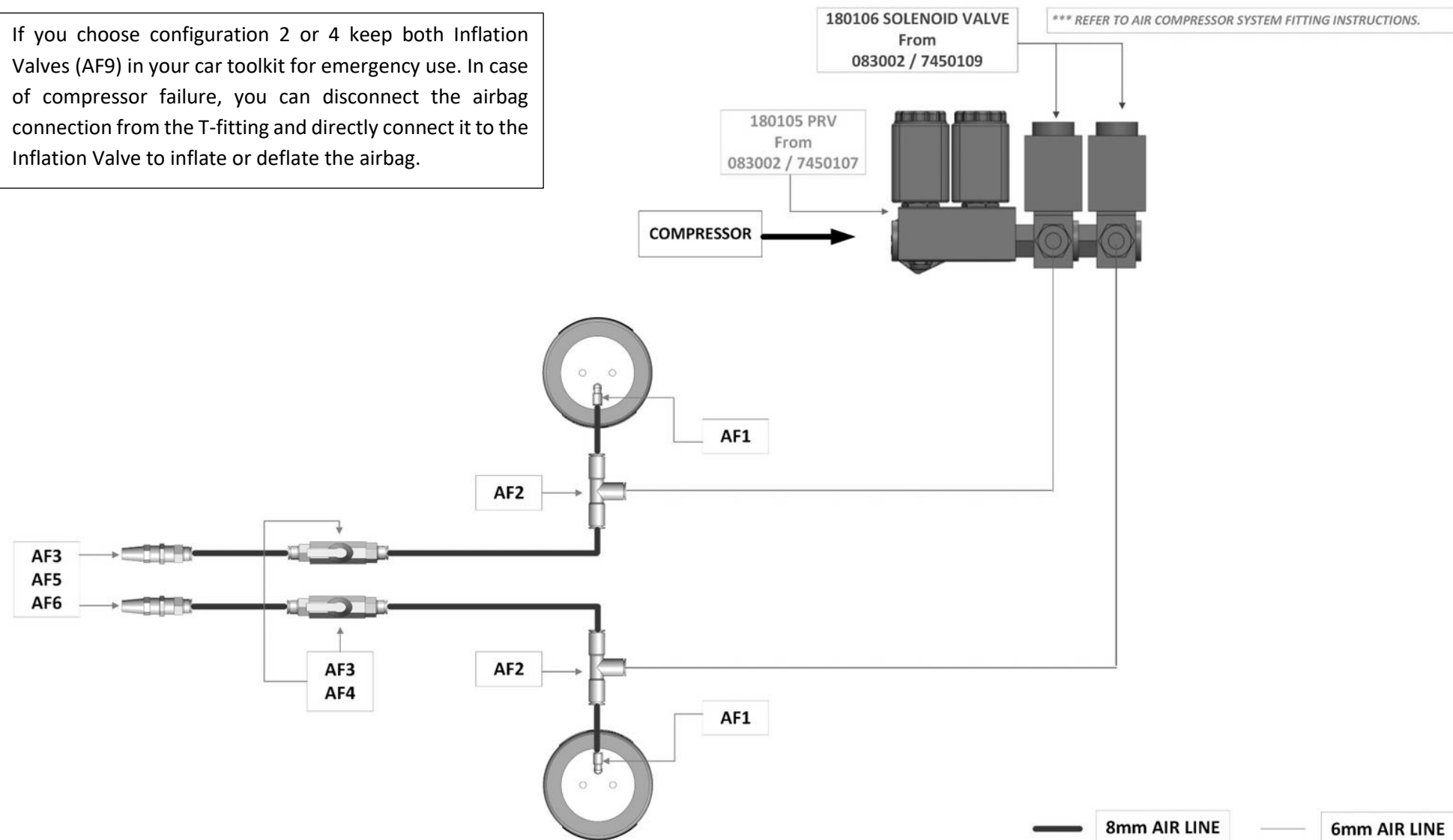


CONFIGURATION 2 & 4: *ROUTING 1*



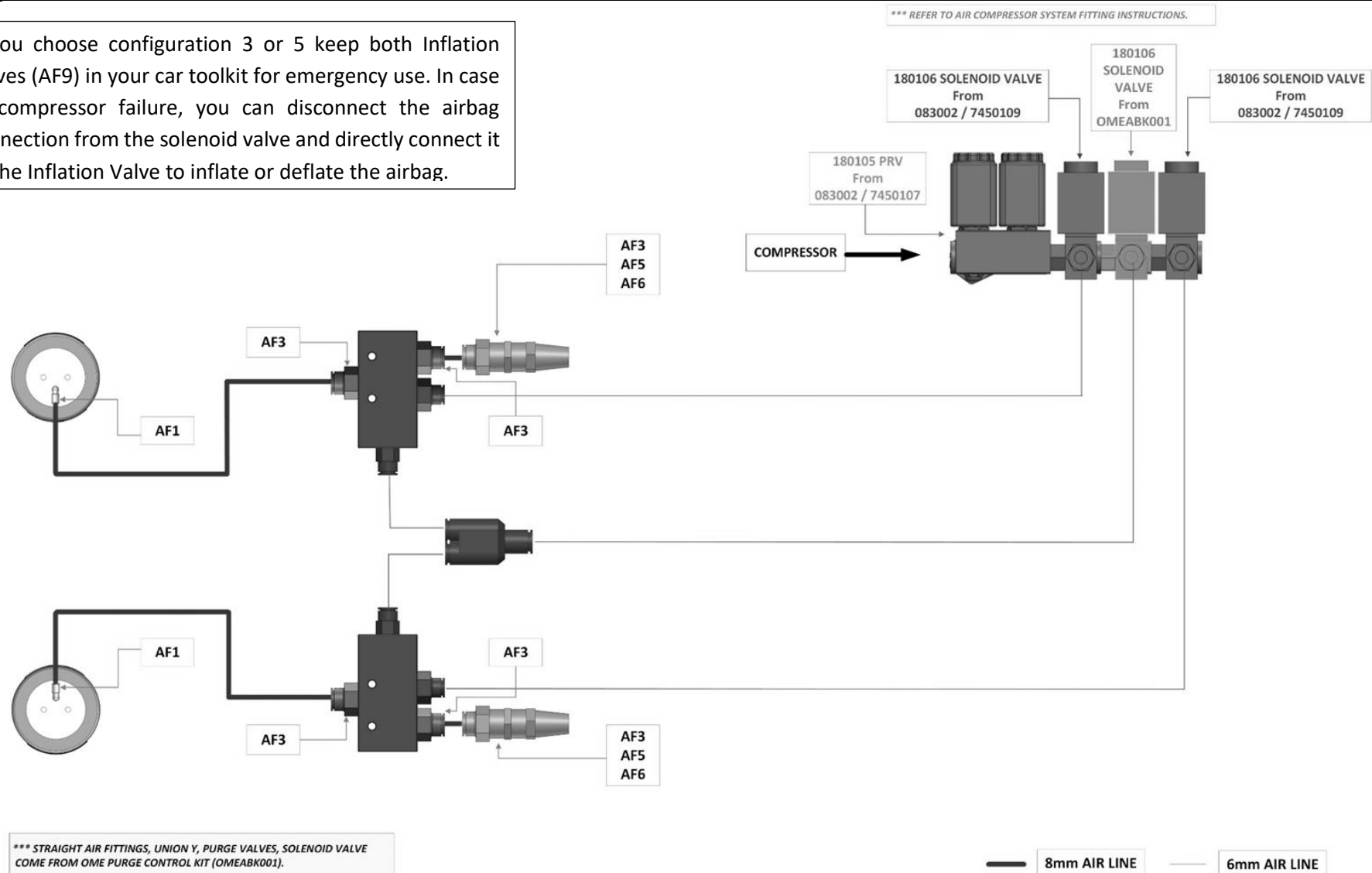
CONFIGURATION 2 & 4: *ROUTING 2*

If you choose configuration 2 or 4 keep both Inflation Valves (AF9) in your car toolkit for emergency use. In case of compressor failure, you can disconnect the airbag connection from the T-fitting and directly connect it to the Inflation Valve to inflate or deflate the airbag.



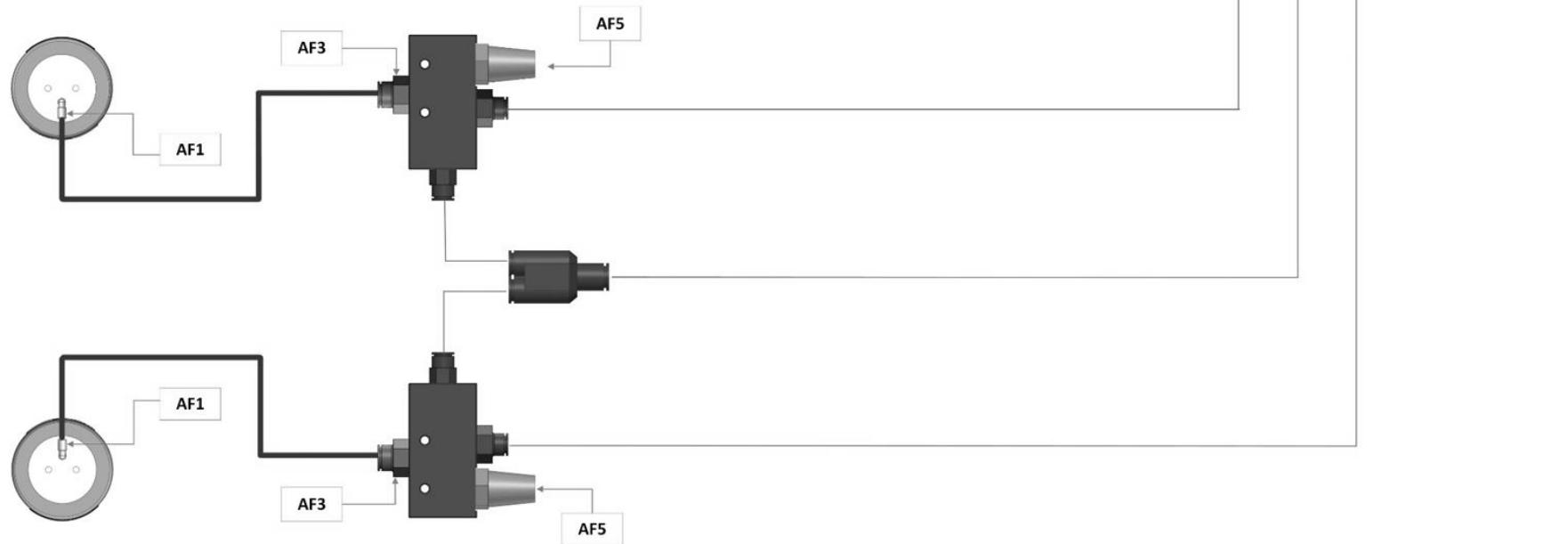
CONFIGURATION 3 & 5: *ROUTING 1*

If you choose configuration 3 or 5 keep both Inflation Valves (AF9) in your car toolkit for emergency use. In case of compressor failure, you can disconnect the airbag connection from the solenoid valve and directly connect it to the Inflation Valve to inflate or deflate the airbag.



CONFIGURATION 3 & 5: ROUTING 2

If you choose configuration 3 or 5 keep both Inflation Valves (AF9) in your car toolkit for emergency use. In case of compressor failure, you can disconnect the airbag connection from the solenoid valve and directly connect it to the Inflation Valve to inflate or deflate the airbag.



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

23. FINAL CHECK	
1. Verify that all fasteners are tightened securely according to the specified torque. 2. Close the purge valves and inflate both airbags to 45 psi. 3. Check the clearances of airbags and use soapy water to check if there are any leaks. 4. Deflate both airbags to 0 psi or purge, check the ride height	Part • NA
	Fastener • NA
	Tool • Soapy water • Tyre inflator
	Torque NA