



FITTING INSTRUCTIONS

making everyday smoother



- Increased comfort • Better driveability • More safety



FORD TRANSIT V363 RWD

VB-FullAir 2C
REAR AXLE

FOR KIT:

105 06 19 2XX

What has changed ?

New revision:	05	Old revision:	V1.4
Release date (yyyy-mm-dd):	2016-10-10		
Page (new):	Changes:		
11	mounting details of u-bolts changed		
12	mounting steps added		
13	mounting of upper cross beam changed		
14	mounting steps added		
21	AC bracket added		
23	AC bracket added		



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1. Safety instructions

Personal safety instructions

- Always wear suitable protective clothing and safety boots.
- Do not wear rings, watches or loose clothing.
- Never carry loose items in pockets.
- Tie back long hair.
- Never use broken tools. Only use tools for their intended purpose.
- Wear safety goggles.

General safety instructions

- If possible, always use a hydraulic ramp when carrying out the activities.
- If applicable, ensure that the vehicle is properly supported.
- Ensure that the vehicle cannot roll away.
- Improperly carried out installation can result in hazardous situations.

Symbols used

Caution



*When the warning symbol is shown, information is provided that is extremely important for the safety and/or health of those involved.
This symbol is also used for procedures that are critical for the correct installation of the air suspension kit.*

Tip



When the tip symbol is shown, information is provided that will help make installation of the air suspension kit simpler.

Torque



xx Nm

In this manual there is a check box next to each bolted joint showing the torque to be used when tightening the bolted joint.

2. Fitting instructions

This manual has been put together with great care and describes the steps for installing the air suspension indicated on the front page. However, the content of this manual is a snapshot view of the situation as at the time it was written.

VB-Airsuspension reserves the right to introduce technical changes at any time without warning.

The warranty is only valid if installation is carried out by a specialist workshop. Installation may only be carried out by suitably authorised personnel.

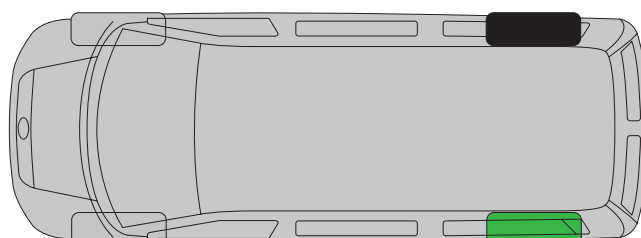
Staff must be experienced in working on light commercial vehicles, particularly in relation to electrics/electronics, pneumatics and general vehicle mechanics.

- Use vehicle workshop manuals where necessary.
- Always follow the vehicle manufacturer's conversion instructions, unless expressly stated otherwise in this manual.
- Keep workplace clean and tidy.
- Always tighten nuts and bolts to the specified torque.
- If modifications have been made to the original anti-corrosion system, this must be rectified immediately. Use spray wax or a protective coating for this purpose.
- Always refit removed tubes and wires in the same way they were originally fitted.
- Secure pipes and wires with a sufficient number of tie-wraps. Ensure that the wires cannot be placed under tension.
- The supply cable must be at least 100 mm away from the ABS/ESP block, the sensors and other control equipment.
- Ensure that there are no tight bends in air tubes and that they cannot be kinked or chafe against other parts.
- Never attach air tubes, wires or other parts to the vehicle's brake lines.
- Do not leave any tools, cleaning cloths or other materials lying around.
- Use the checklist to check the air suspension system after fitting.
- Check the system for air tightness after fitting.
- Take the vehicle for a test drive after fitting.
- Ensure that the correct calibration supports are available. The correct calibration supports to be used with this kit are:

Axle:	Calibration height:	Order number:
Rear axle	<i>X = 150mm</i>	<i>009 000 00 82A</i>

- The air suspension kit is supplied for two corners. If a part is specifically for one corner, it is identified with a coloured sticker.

Colour	Description
Green	Rear left
Black	Rear right



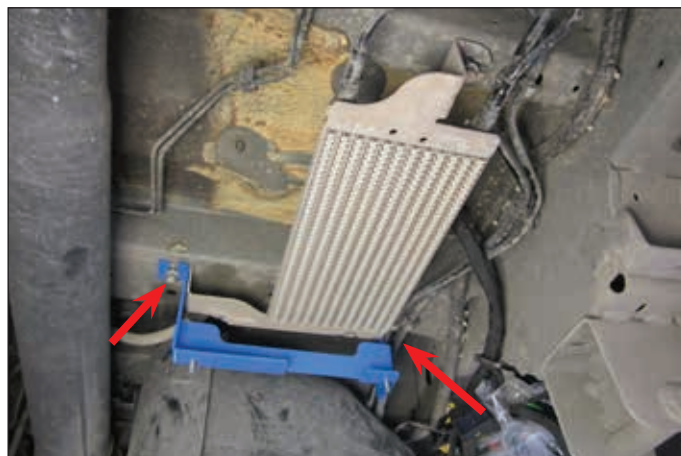
3. Compressor box and wiring harness

3.1 Compressor box



If no fuel cooler is installed, the compressor suspension supports must be fitted from point 2 and point 4 in the position indicated using the supplied self-tapping flange bolts M6x25 / M8x25.

1. Loosen the rear bolts of the fuel cooler. Do not remove them.
2. Slide the rear compressor mounting bracket under the bolts loosened in point 1 - the bracket must be pushed under the bolts from the rear.



Original fasteners



8 Nm

3. Loosen the front bolt of the fuel cooler. Do not remove it.
4. Slide the rear compressor mounting bracket under the bolt loosened in point 3 - the bracket must be pushed under the bolt from the front.

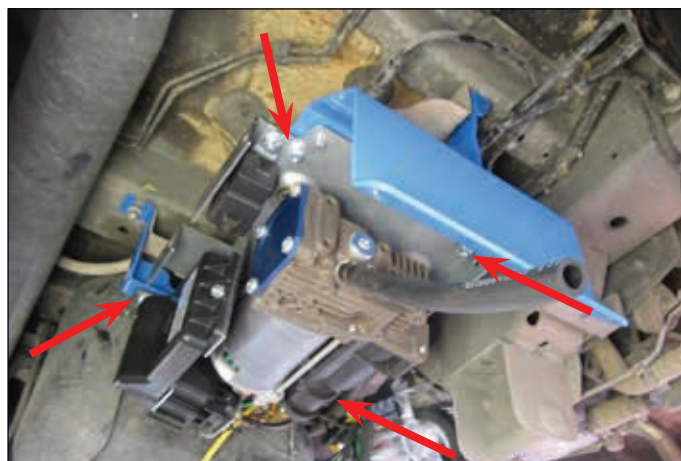


Original fasteners



8 Nm

5. Fit the compressor box to the bracket.
6. Tighten the bolts.



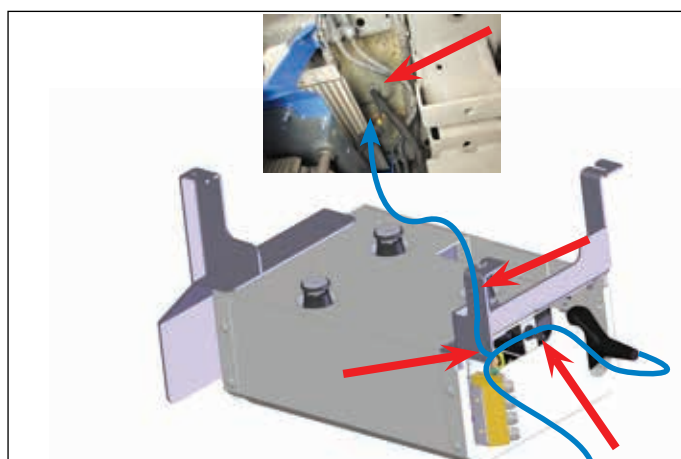
4 x flange lock nut

M6



8 Nm

7. Attach the VB wiring harness with all connectors to the compressor support as indicated by the blue line.
8. Route the VB wiring harness to the inside through the hole above the fuel cooler.

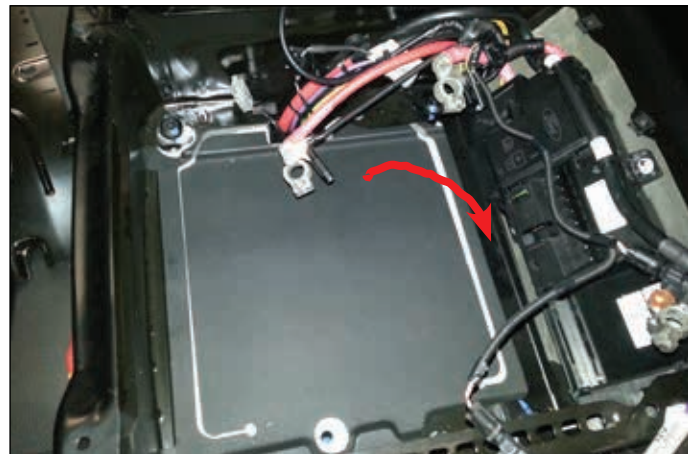


3.2 Wiring harness

1. Remove the driver's seat.
2. Remove the battery(ies)
3. Remove the battery housing.
4. Lift up the trim.



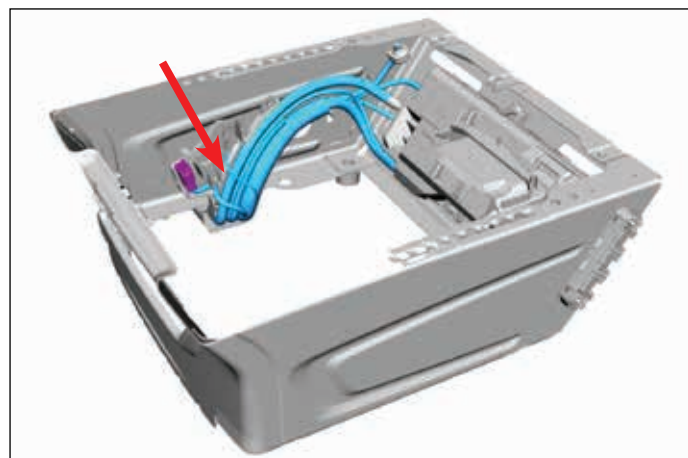
Ensure that tubes or wires cannot be placed under tension or become damaged.



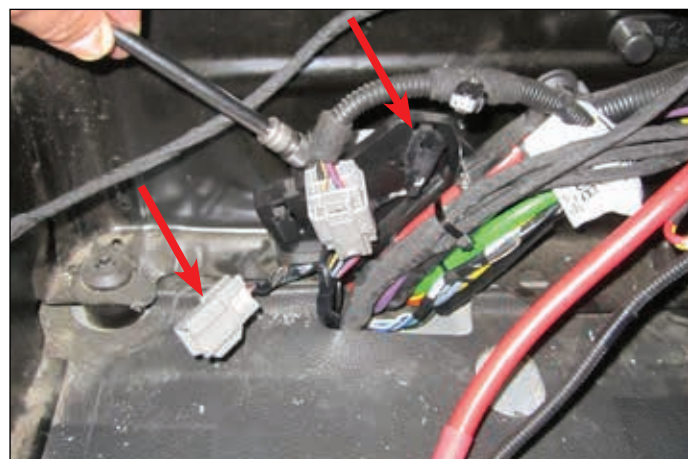
5. Carefully pull the wire into the battery housing.



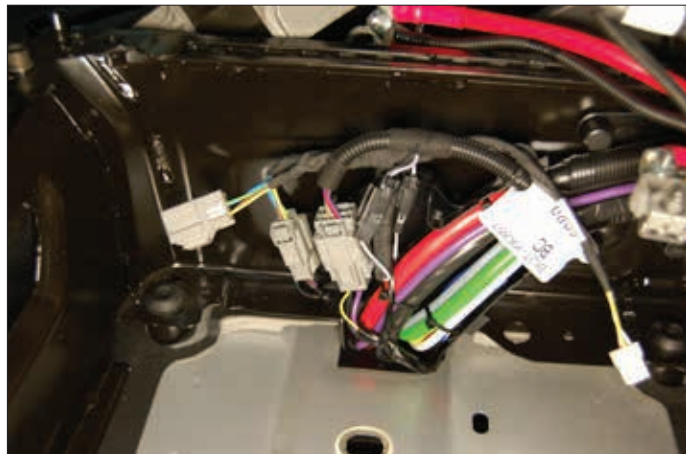
6. A black and grey connector can be found in the seat base.



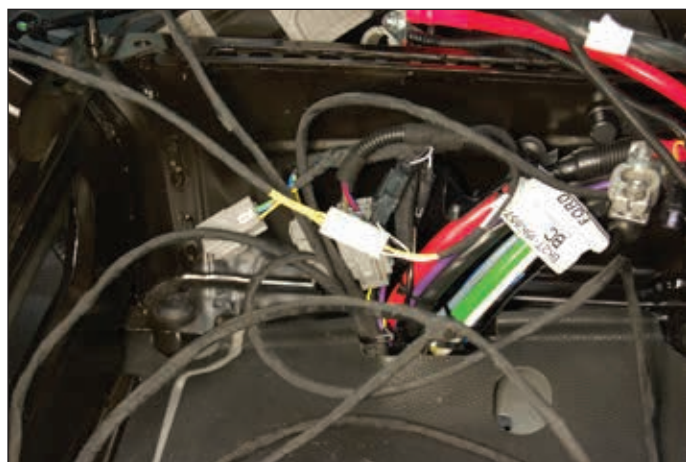
7. Release the black connector from the mounting.
8. Release the grey connector from the mounting.



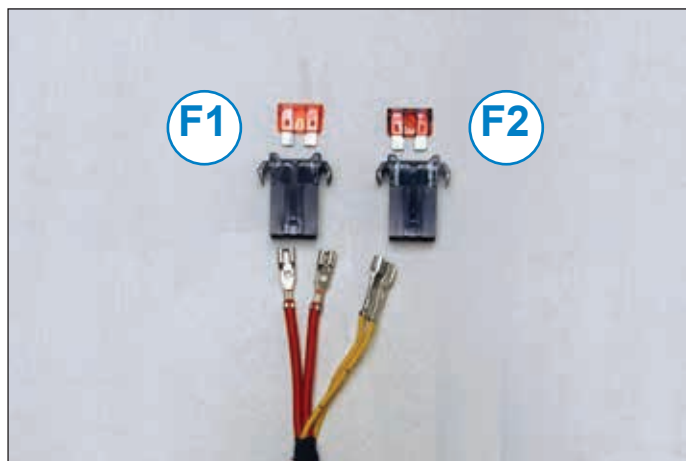
9. Connect the supply cable to these two connectors.



10. Connect the supply cable to the white connector.



11. Connect the two red wires to the fuse block to which the **F1 40A** fuse will later be connected.
12. Connect the two yellow wires to the fuse block to which the **F2 7.5A** fuse will later be connected.
13. Do not fit the fuses yet.
14. Fit the fuse block to an accessible place on the seat frame.



15. Install the battery(ies)
16. Connect the yellow and brown wire to the negative battery terminal of the rear battery. (-).
17. Connect the red wire to the marked connection of the positive battery terminal of the rear battery. (+).



If there are 2 batteries, always use the accessories battery and not the original starter battery.

3.3 Remote control

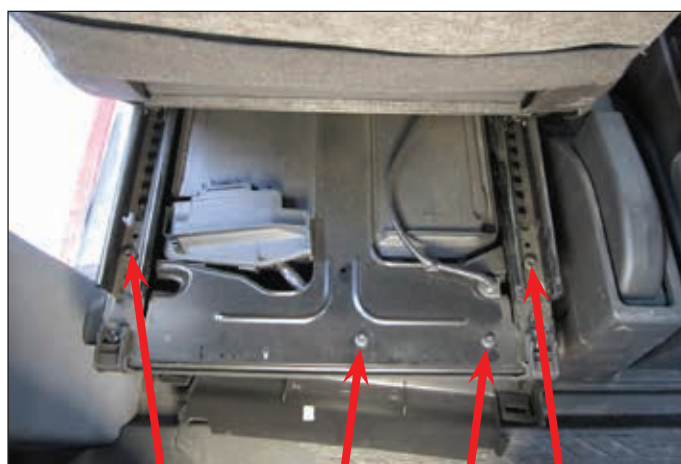
1. Connect the remote control wire to the VB wiring harness that has already been installed under the seat.
2. Identify a suitable location to install the remote control. VB-Airsuspension recommends the position shown in the photograph.
3. Place the remote control in the holder.
4. Ensure the connector is not under tension. Secure the end of the wire with a tie-wrap, as shown in the example.



Ensure that the remote control is never in the way of the airbags.

5. Refit the interior components removed earlier.

Original fasteners



25 Nm

10 Nm

10 Nm

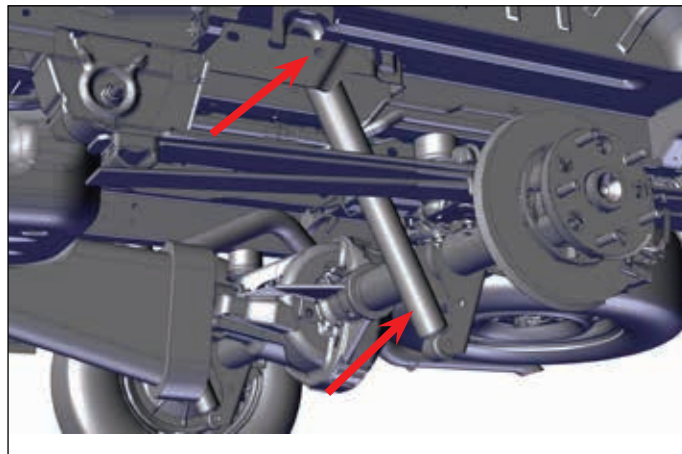
25 Nm

4. Fitting the air suspension kit for the rear axle

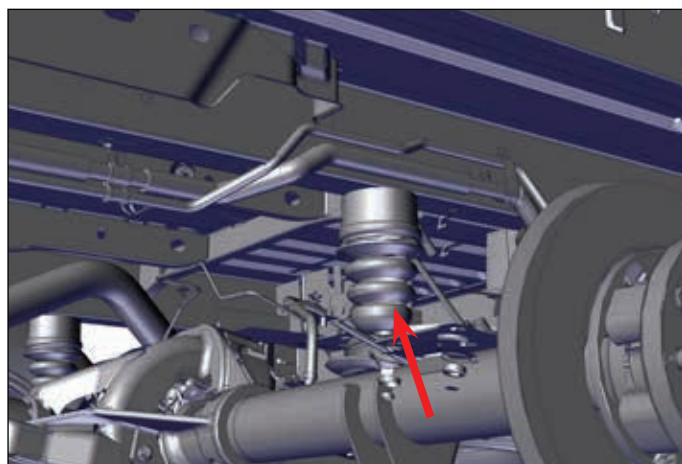
4.1 Preparations

1. Ensure that the vehicle is properly supported.
2. Remove the spare wheel.
3. Remove the shock absorbers.

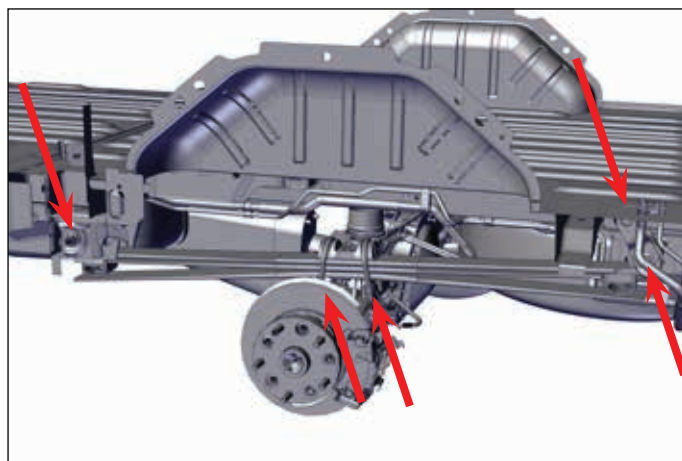
Note: The nuts and bolts will be re-used.



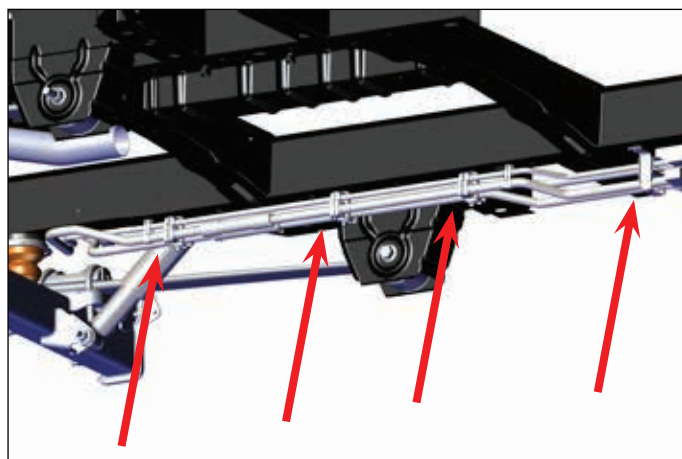
4. Remove the bump stops.
5. Remove the bump stop retainers.



6. Remove the U-bolts.
7. Remove the topmost bolt from the spring shackle.
8. Remove the bolt from the frontmost leaf-spring bracket.
9. Remove the leaf springs.
10. Remove the rearmost leaf-spring bracket.



11. If the vehicle is equipped with air conditioning in the rear compartment, the indicated mounting brackets must be loosened so that the panhard torque rod bracket can be fitted.



4.2 Main spring

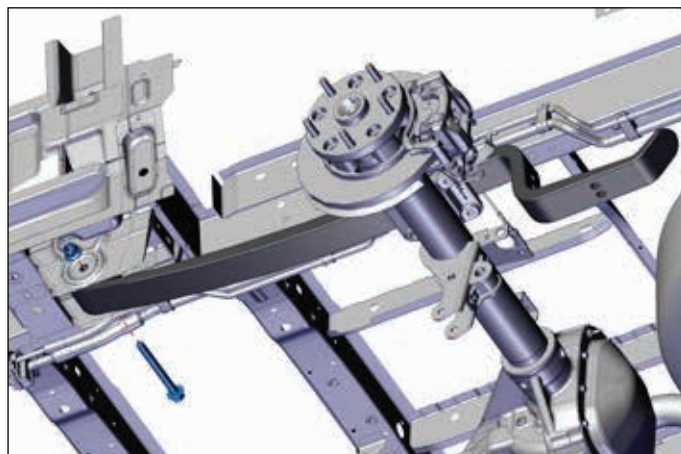
1. Place the main springs on the spring seats. Ensure that the centre bolt falls in the hole of the spring seat.
2. Fit the main spring in the frontmost leaf-spring bracket.

**** Do not tighten the bolts yet. Tighten them once the vehicle is at the ride height.**

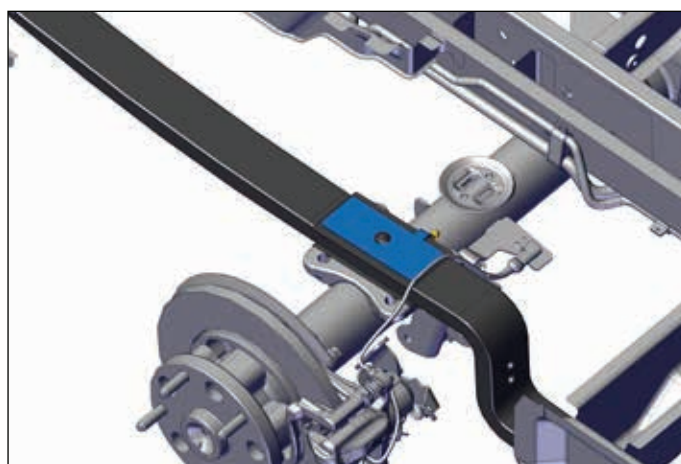
Original fasteners



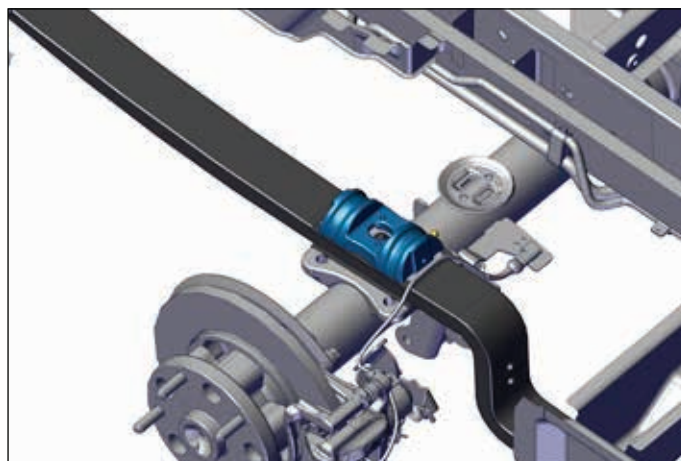
275 Nm



3. Place the ball-joint brackets on the main spring. The ball-joint holes must face towards the inside and to the rear.



4. Place the original spring clamping plates on the main spring.



5. Fit the U-bolts with the original leaf-spring U-bolt nuts. Fit thick lock washers under the leaf-spring U-bolt nuts. Fit the U-bolts in steps of **25, 50, 75, 100, 125, 150** until **175 Nm** is reached.

**** Do not tighten the nuts yet. Tighten them once the vehicle is at the ride height.**
Note: After tightening, the difference in length must not be more than 3 mm (Δ).

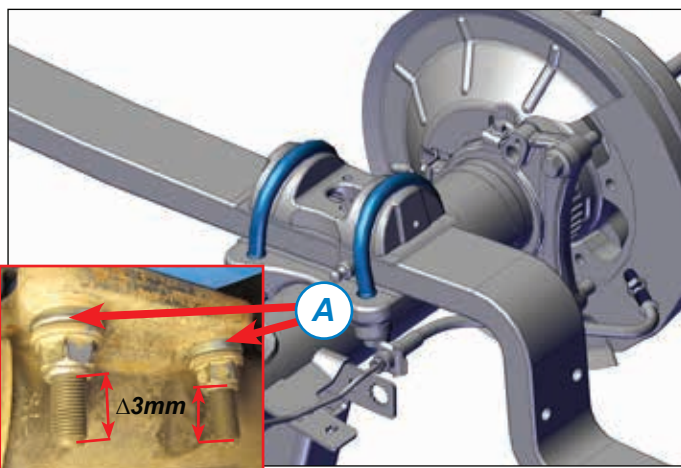
8 x washer ø30*ø14,5 L=10 M22



Original fasteners



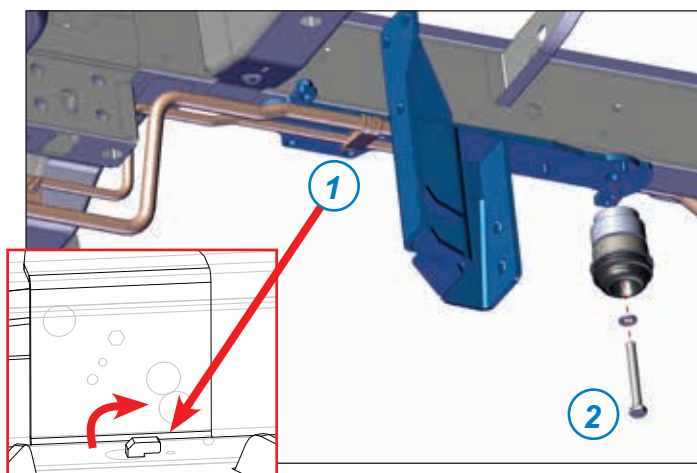
175 Nm



4.3 Upper cross beam

1. Fit the panhard rod bracket up against the chassis. To do this, push the lip in the hole of the chassis.
2. Replace the original bump stop with the VB bump stop and VB spacer block.


1 x bolt	M10 x 85
1 x lock washer	M10
 60 Nm	

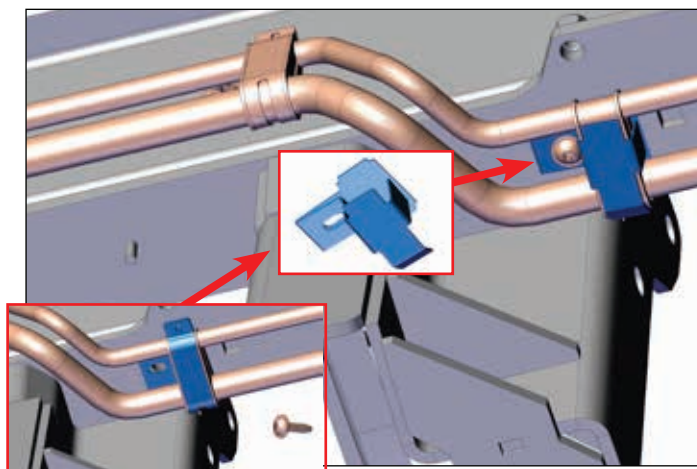




Only carry out steps 3 and 4 if the vehicle is fitted with air conditioning.

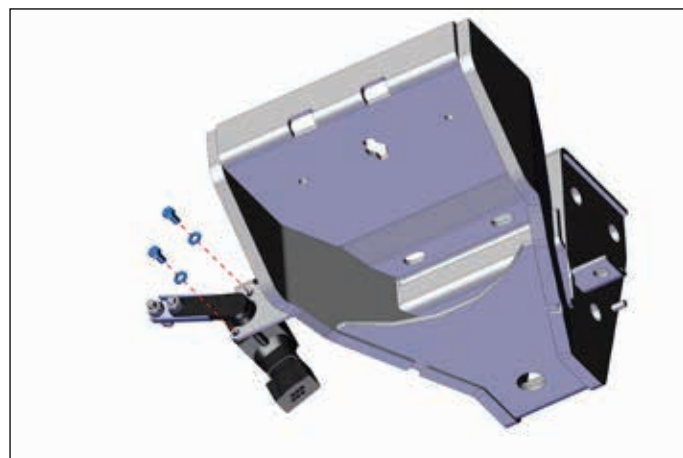
3. Replace the original clamp for the pipe rubber with the VB clamp.
4. Fit the new VB clamp in the original position.

Original fasteners	
 Nm	




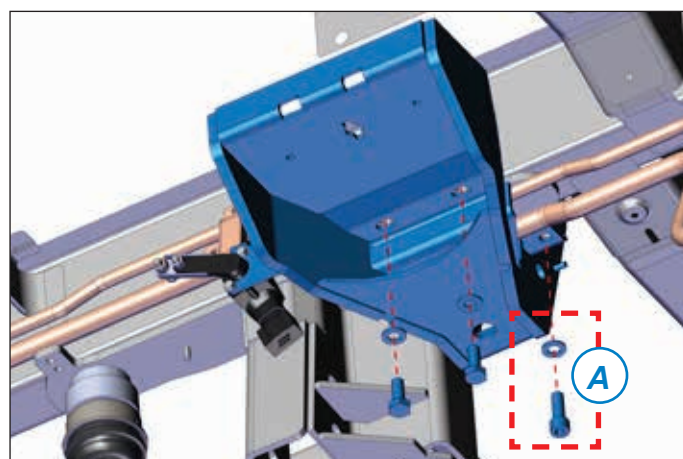
5. Fit the height sensor on the left upper spring plate as shown in the illustration.

2 x bolt	M5 x 10
2 x lock washer	M5
 5 Nm	



6. Place the left upper spring plate over the panhard rod bracket. Ensure that the A/C pipes (if present) run through the tunnel in the upper spring plate.
**** Do not tighten the bolts yet.**

1 x allen screw (A)	M10 x 30
2 x bolt	M10 x 30
3 x lock washer	M10
 60 Nm	



7. Fit the height sensor on the right upper spring plate as shown in the illustration.

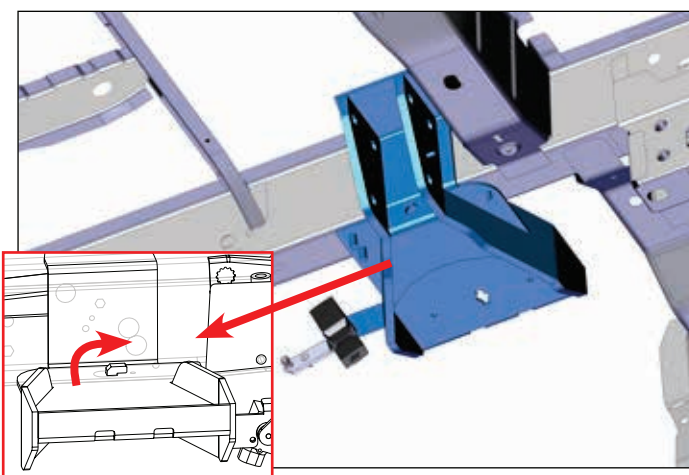


2 x bolt	M5 x 10
2 x lock washer	M5



5 Nm

8. Fit the right upper spring plate to the chassis. To do this, push the lip in the hole of the chassis.



9. Fit the upper spring plates on the chassis. To do this, push the lip in the hole of the chassis. (see inset).

2 x lock nut	M8
2 x lock washer	M8



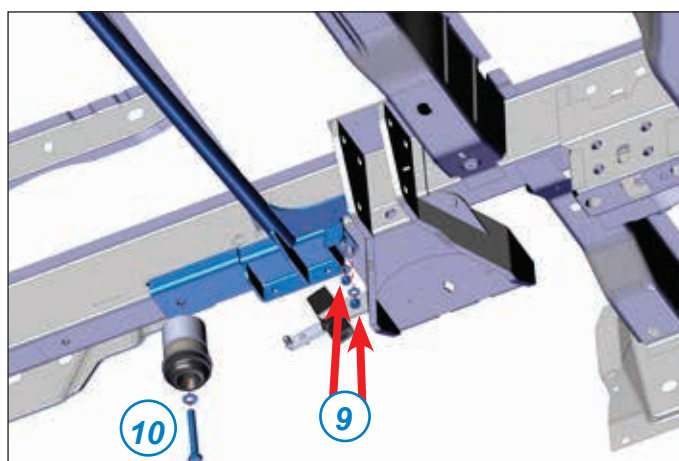
14 Nm

10. Mount the bump stop with the spacer block in the original position.

1 x bolt	M10 x 75
1 x lock washer	M10



60 Nm

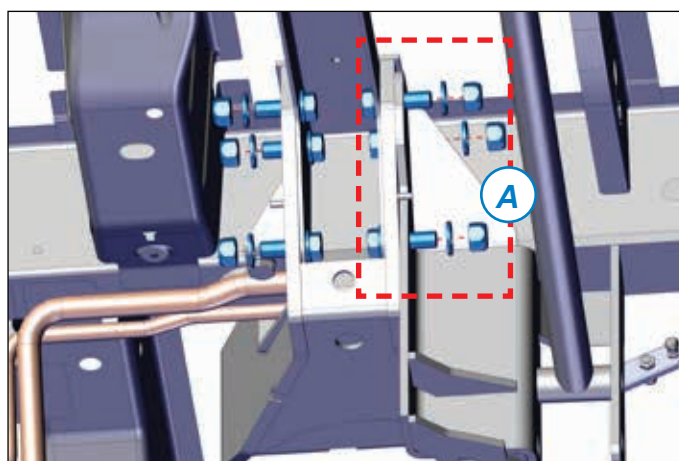


11. Fit the upper cross beam to the left upper spring plate.
The bolts must be fitted from the inside to the outside.
Push the upper spring plates as far out as they will go during fitting so that they are up against the chassis.

3 x bolt	M12 x 40
3 x bolt	M12 x 35
12 x lock washer	M12
6 x lock nut	M12



104 Nm

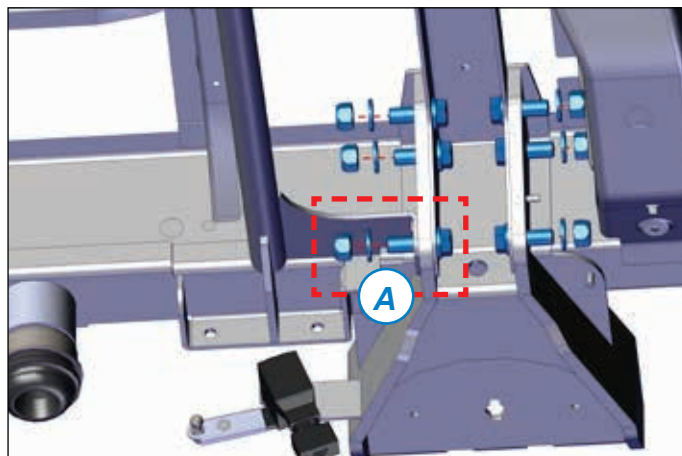


12. Fit the upper cross beam to the right upper spring plate.
The bolts must be fitted from the inside to the outside.
Push the upper spring plates as far out as they will go during fitting so that they are up against the chassis.

1 x bolt	M12 x 40
5 x bolt	M12 x 35
12 x lock washer	M12
6 x lock nut	M12



104 Nm

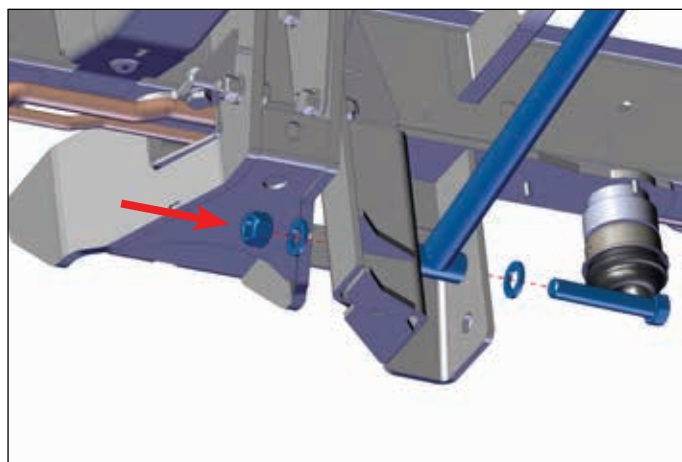


13. Fit the torque rod to the panhard rod bracket.

1 x bolt	M16 x 90
2 x lock washer	M16
1 x lock nut	M16



200 Nm



The following step can only be carried out when the vehicle is at the ride height.

14. Lower the vehicle onto the calibration supports.



Go to section 2 for details of the correct calibration supports for this kit.

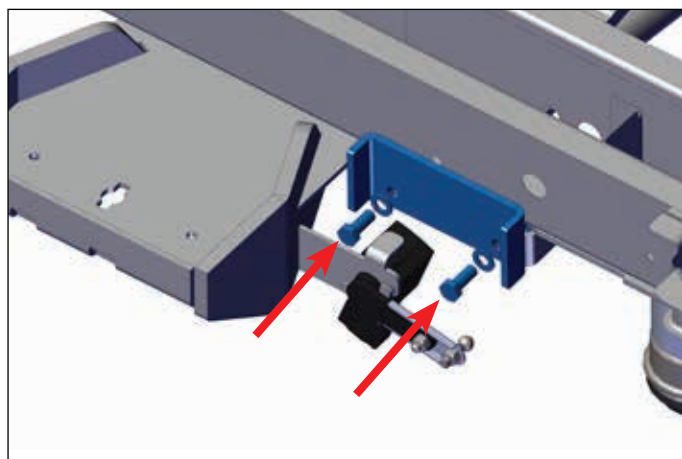


15. Fit the mounting plate to the right mounting strip.

2 x bolt	M8 x 25
4 x lock washer	M8
2 x lock nut	M8



20 Nm

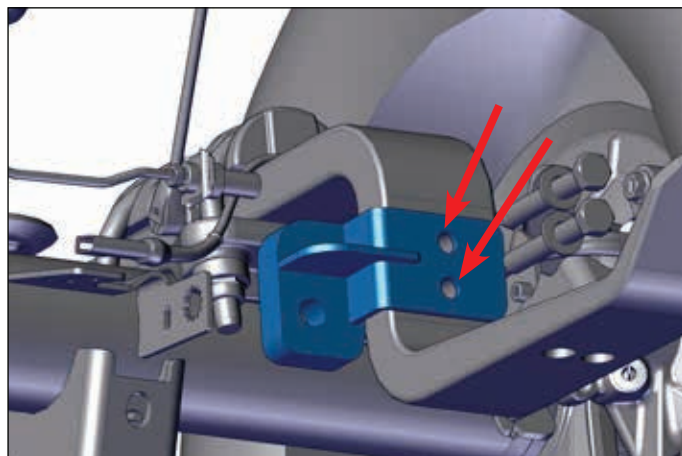


16. Fit the panhard rod ball-joint bracket to the right main spring.
17. The bolts must be fitted from the rear.

2 x bolt	M12 x 80 x 1,5
4 x lock washer	M12
2 x lock nut	M12



135 Nm



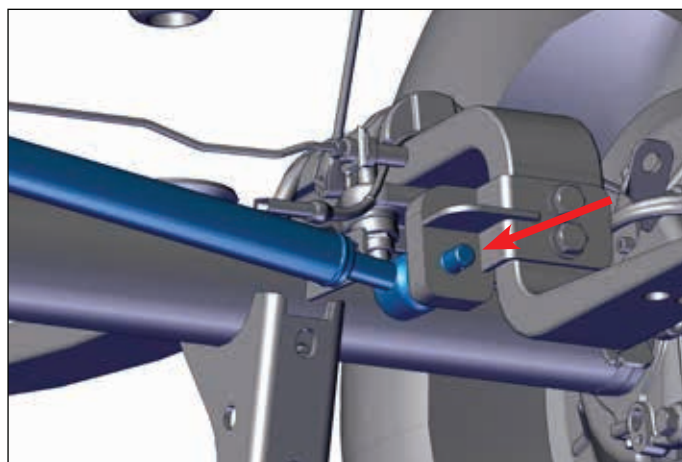
18. Screw the panhard rod onto the ball joint. Apply grease to the thread.
**** Do not tighten the nut yet.**
19. Fit the panhard rod ball-joint to the panhard rod bracket.

1 x castellated nut	M14	x 1,5
1 x lock washer	M14	
1 x split pin	M14	



75-85 Nm

Keep on tightening until the split pin fits.



20. Fit the panhard rod to the panhard rod bracket.
**** Do not tighten the bolts yet.**

1 x bolt**	M16 x 90
2 x lock washer	M16
1 x lock nut	M16

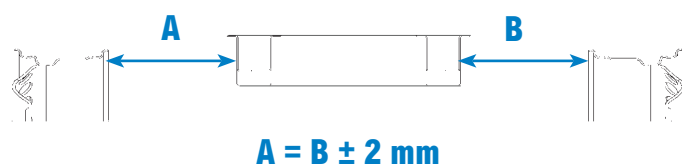


200 Nm



21. Secure the bolts from section 4.2, steps 2 and 5.
22. Secure the bolts from section 4.3, step 6.

23. Measure the distance (**A**) between the chassis and rim edge on the left-hand side.
24. Measure the distance (**B**) between the chassis and rim edge on the right-hand side.
25. If there is a difference greater than 2 mm between the left and right measurements, remove the panhard rod bolt.
26. Turn the panhard rod:
Anti-clockwise: when **A > B**
Clockwise: when **A < B**
27. Fit the bolt.
If the difference is > 2 mm, adjust!
If the difference is < 2 mm, continue!



When making adjustments: 1 turn is equivalent to 1.5 mm of movement.

28. Ensure the ball joint is straight relative to the bracket when you tighten the lock nut.
29. Tighten the lock nut.

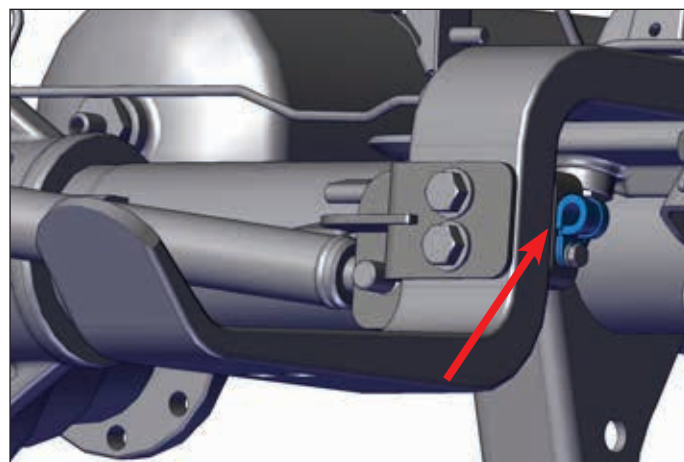


Nut supplied



65 Nm

30. Fit the brake line to the panhard rod ball-joint bracket using a pipe clamp.



1 x pipe clamp	Ø12
1 x bolt	M6 x 12
1 x lock washer	M6



8 Nm

4.4 Brake line bracket

1. Remove the bolt from the original brake line bracket.



2. Fit the adapter plate for the brake line bracket.

1 x countersunk Allen screw M8 x 25



8 Nm



3. Fit the original brake line bracket to the adapter plate.

1 x lock nut M8
1 x lock washer M8



14 Nm

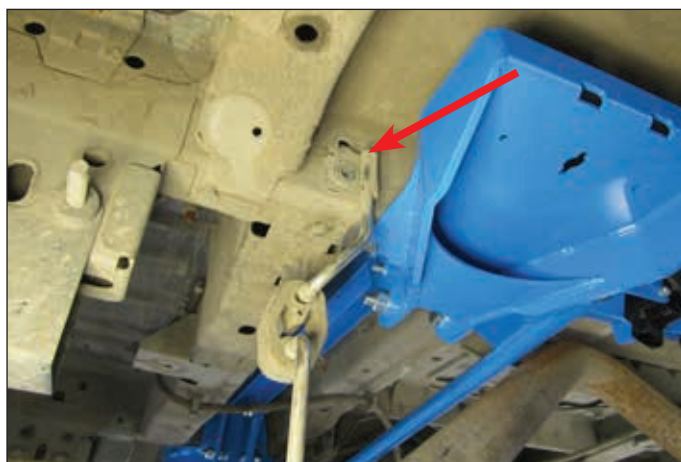


4. Slide the black spiral hose over the brake line as shown.



4.5 Exhaust mounting

1. Remove the bolt from the exhaust bracket.

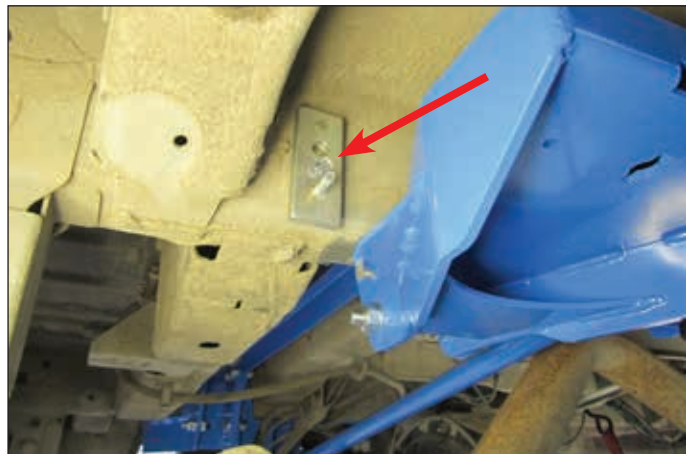


- Fit the adapter plate to the chassis.

1 x countersunk Allen screw M8 x 25



8 Nm



- Fit the original exhaust bracket to the adapter plate.

1 x lock nut M8
1 x lock washer M8



14 Nm



4.6 Air spring

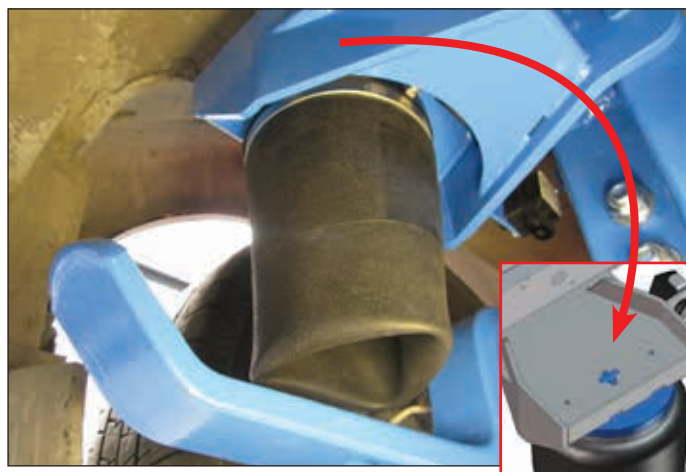
- Fit the air couplings to the air springs.

2 x air coupling



3 Nm

- Fit the air springs to the lower spring plates with the quick fastener. The air coupling must face towards the inside of the vehicle.



- Fit the air spring to the main spring.
**** Do not tighten the nuts yet.**



Only tighten the bolts when the air springs are pressurised. This ensures that the air springs are not twisted.

2 x Allen screw M10 x 50

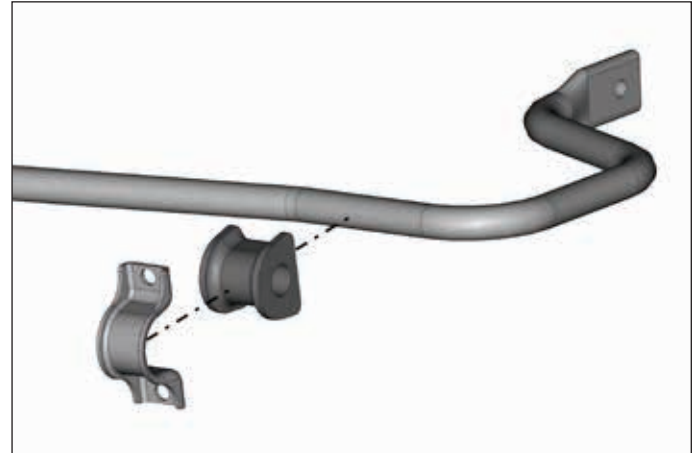


20 Nm



4.7 Shockabsorber

1. Fit the stabiliser arm rubbers with the brackets to the stabiliser arm.
Smear the rubbers with grease before fitting.



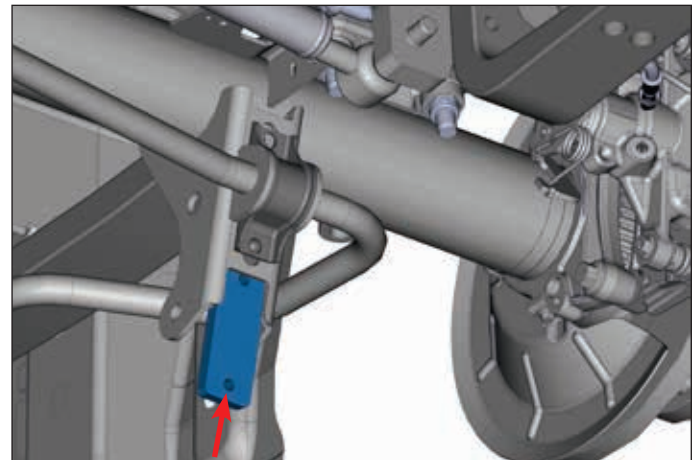
2. Fit the stabiliser arm to the rear axle using the mounting plate.

4 x flange bolt **M10 x 30**



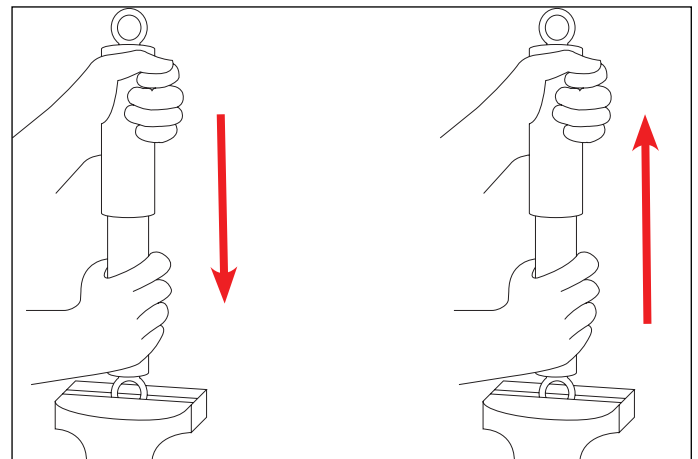
40 Nm

3. Shock absorbers must be vented before they are fitted.
4. Clamp the shock absorbers vertically in a bench vice.



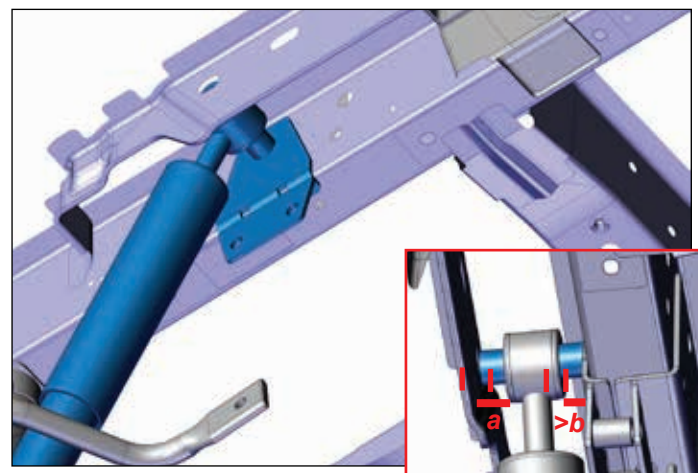
The wide end of the shock absorber is viewed as the top.

5. Gently push the top down and then slowly pull it up again.
6. A slurping noise can be heard at the end of the turn; this indicates the presence of air.
7. Continue this pumping action until the slurping noise is no longer heard.
8. Keep the shock absorbers vertical.



Always hold the shock absorber with the top pointing up. If you don't do this, air will enter the shock absorber again.

9. Fit the top end of the shock absorbers. The bolt must be fitted from the outside to the inside.
10. Fit the outer stabiliser brackets to the chassis.



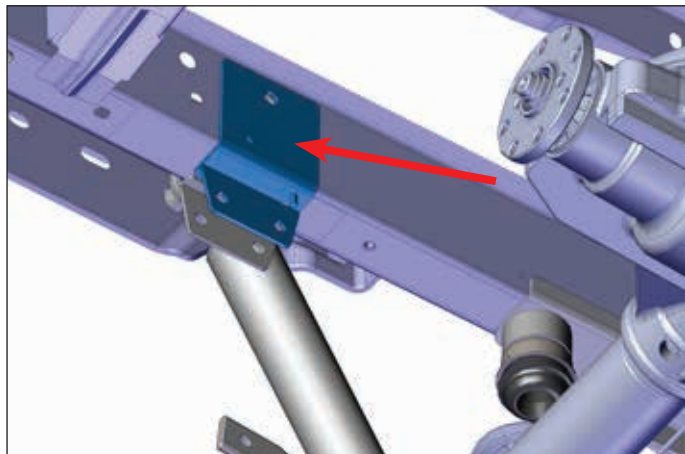
The wide end of the shock absorber bush must be secured on the outside.

Original fasteners



175 Nm

11. Fit the inner stabiliser brackets to the chassis.



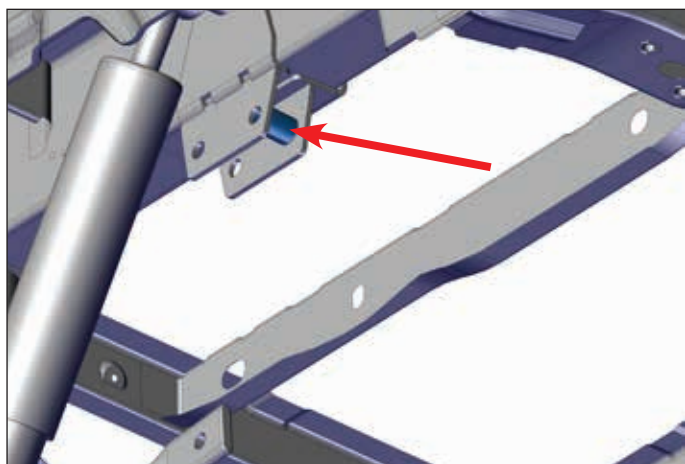
12. Fit the distance bush in the front hole.

**** Do not tighten the nuts yet.**

2 x bolt**	M12 x 55
4 x lock washer	M12
2 x lock nut	M12



105 Nm



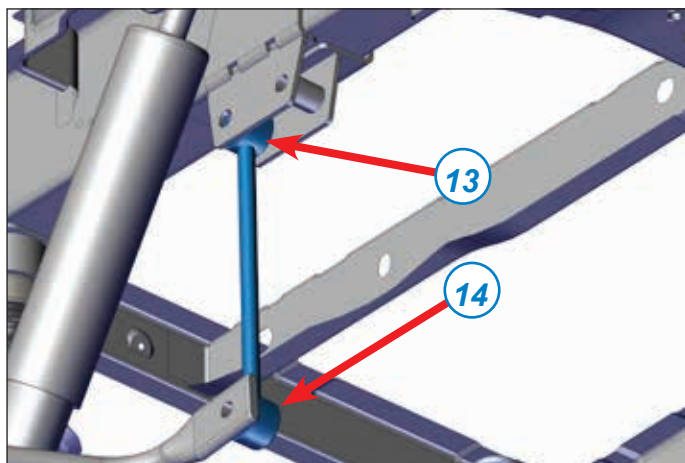
13. Fit the torque arms to the stabiliser bracket. The bolts must be fitted from the outside to the inside.

**** Do not tighten the nuts yet.**

2 x bolt**	M12 x 55
4 x lock washer	M12
2 x lock nut	M12



105 Nm



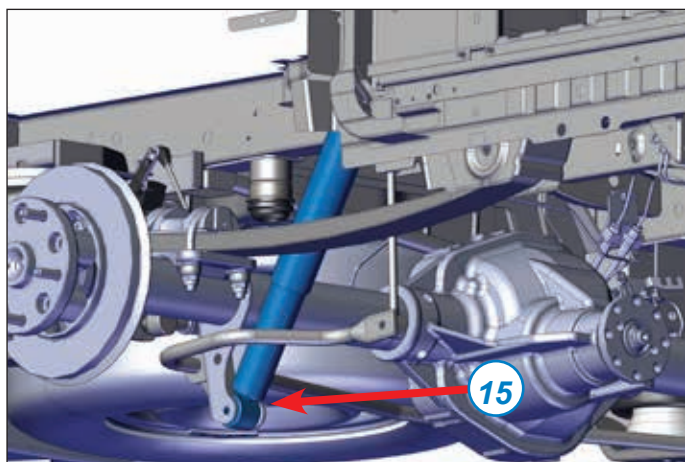
14. Fit the stabiliser arm to the torque arms. Use the large lock washer on the outside of the vehicle.

**** Do not tighten the nuts yet.**

2 x bolt	M12 x 60
2 x lock washer	M12
2 x large lock washer	M12
2 x lock nut	M12



105 Nm



15. Fit the bottom end of the shock absorbers.

Original fasteners



110 Nm

16. Secure the bolts from section 4.7, step 9.
 17. Secure the bolts from section 4.7, step 13.
 18. Secure the bolts from section 4.7, step 14.



Only carry out step 19 if the vehicle is fitted with air conditioning.

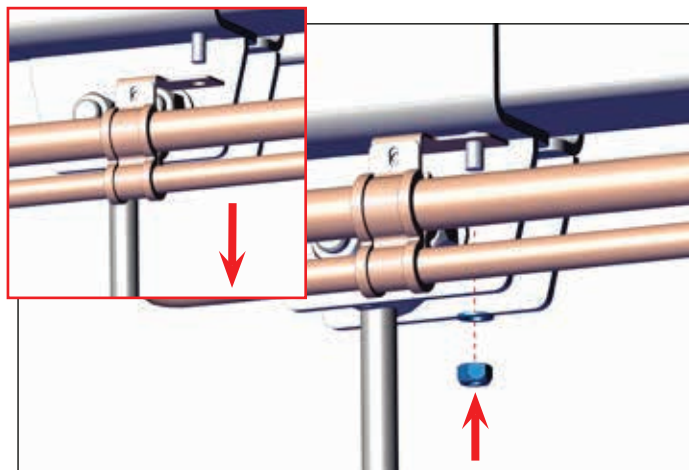
19. Fit the original A/C pipe clamp to the stabiliser bracket.

1 x flange lock nut

M6

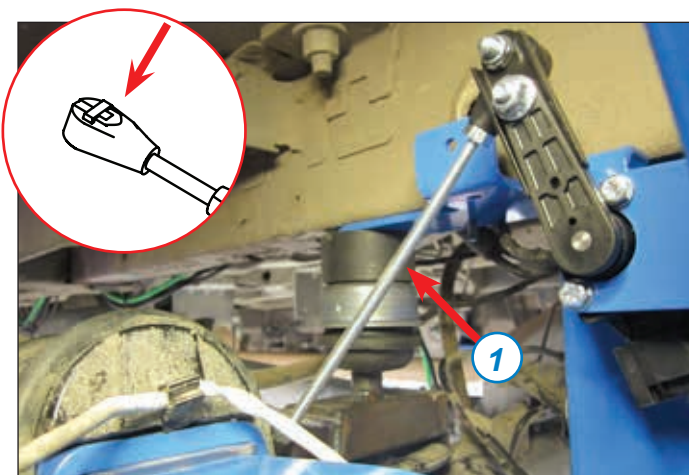


8 Nm



4.8 Height sensors

1. Check the length of the height sensor rods - **200 mm** - measured centre to centre.
2. Fit the height sensor rods to the height sensors.
3. Fit the height sensor rods to the ball-joint brackets.
4. Secure the height sensor rods by pushing in the clips.



4.9 Air tubes

1. Connect the **black** air tube to the right air spring.
2. Push 20 cm of black corrugated pipe over the **black** air tube as far as the air coupling.
3. Route the air tube along the **black** line to the compressor box.
4. Connect the **green** air tube to the left air spring.
5. Push 20 cm of black corrugated pipe over the **green** air tube as far as the air coupling.
6. Route the air tube along the **green** line towards the compressor box.

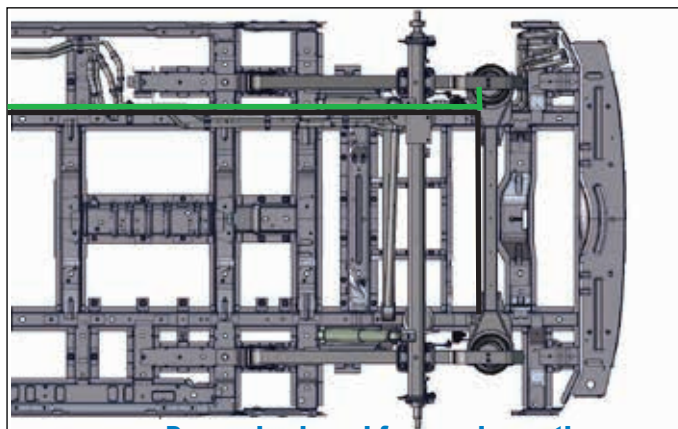


Use sufficient tie-wraps to secure the air tubes and wires!

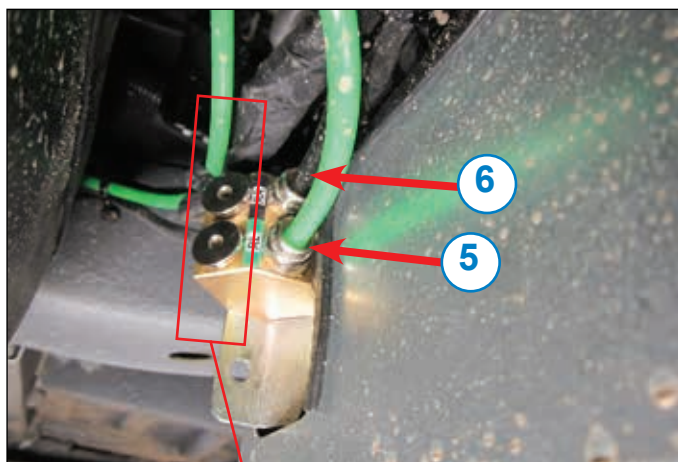


Never attach tubes, wires or other parts to the vehicle's brake lines.

7. Fit the **green** air tube to the air coupling on the junction block on the outside of the compressor box.
8. Fit the **black** air tube to the junction block air coupling on the outside of the compressor box.
9. Ensure that the colour markings match.
10. Seal the unused air couplings with the supplied end plugs.



Rear axle viewed from underneath



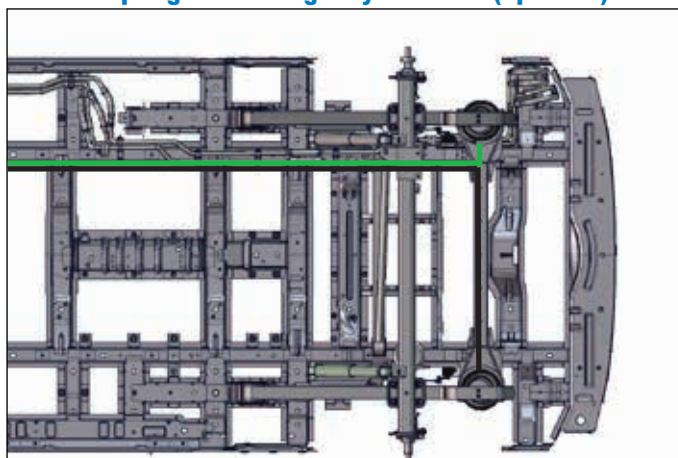
Air couplings for emergency valve kit (optional)

4.10 Height sensors wiring harness

1. Connect the height sensor cables on the rear axle to the connector with the white colour code.
2. Route the right height sensor cable along the **black** air tube to the rear right height sensor.
3. Route the left height sensor cable along the **green** air tube to the rear left height sensor.



Use sufficient tie-wraps to secure the wires.



4. Push 30 cm of black corrugated pipe at the height sensor end over the right height sensor cable.
5. Connect the cables to the height sensors.
6. Route the right height sensor cable along the top of the upper spring plate. See the red line.



7. Fit the left brake line using the flexible tie-wrap.



4.11 Air tank

1. Loosen the two rear left bolts of the fuel tank. Do not remove them.
2. Slide the air tank mounting bracket under the bolts loosened in point 1 - the bracket must be pushed under the bolts from the front.
3. Fit the bolts of the fuel tank.



Original fasteners

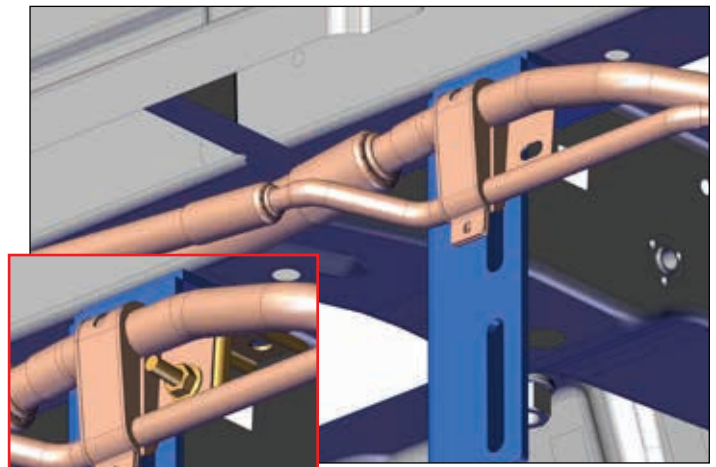


35 Nm



Only carry out steps 4 and 5 if the vehicle is fitted with air conditioning.

4. Remove the original clamp from the A/C pipe.
5. Secure the A/C pipe to the front air tank bracket using tie-wraps.



6. Fit the air tank to the air tank bracket.

4 x lock nut	M8
4 x lock washer	M8



20 Nm

7. Make sure the sealing plug is positioned on the underside.
8. Fit the yellow air tube to the air tank.
9. Route the yellow air tube to the compressor box.
10. Fit the yellow air tube to the valve block.
11. Ensure that the colour markings match.

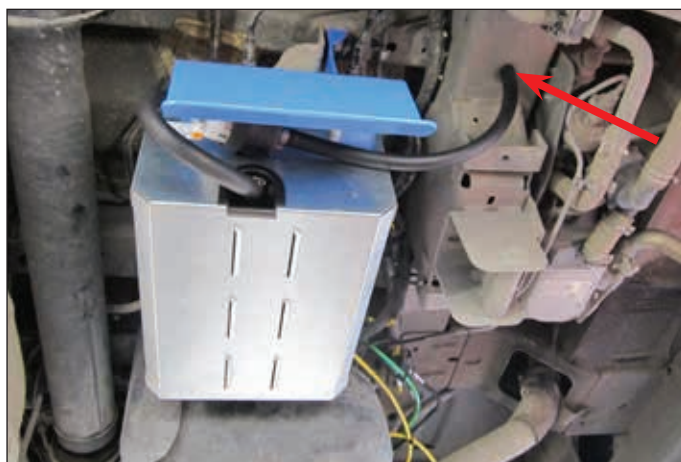


12. Fit the cover to the compressor box.

3 x flange lock nut	M6
----------------------------	-----------



8 Nm



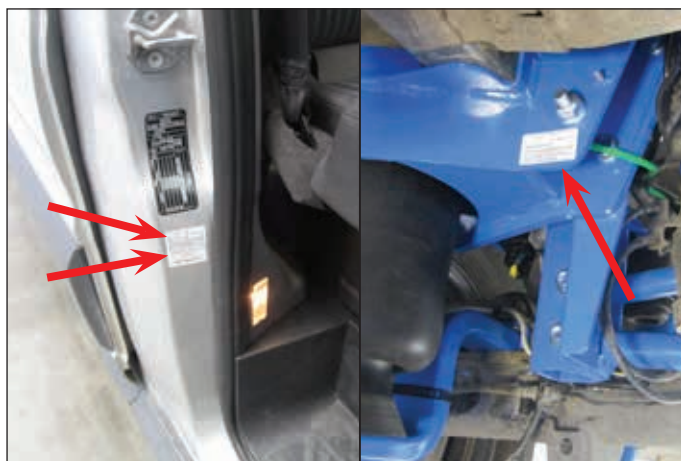
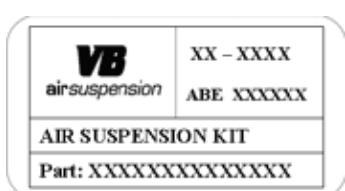
13. Route the inlet line into the chassis.

4.12 Warranty stickers

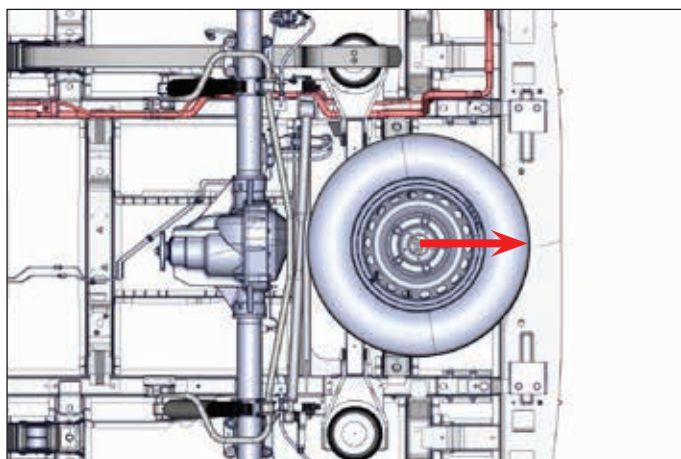
1. Affix the supplied warranty stickers **A + B** to the B-pillar on the passenger's side.
2. Affix sticker **B** to the left upper spring plate.

A

B

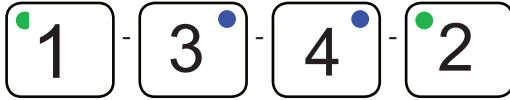


3. Fit the spare wheel as far back as possible to ensure space between the spare wheel and the panhard rod.



5. Calibration

1. Place the fuses in the fuse blocks.
(**F1** = 40 A + **F2** = 7.5A).
2. Turn the ignition on.
3. Ensure that the vehicle is resting on the wheels on a flat surface.
4. Briefly press the **SERVICE** button once (LED lights up).
Enter the following code within 10 seconds:



A long tone is heard, the system will restart.

5. Keep the **SERVICE** button held down while this long tone sounds, until a second long tone is heard.
Enter the following code within 10 seconds:



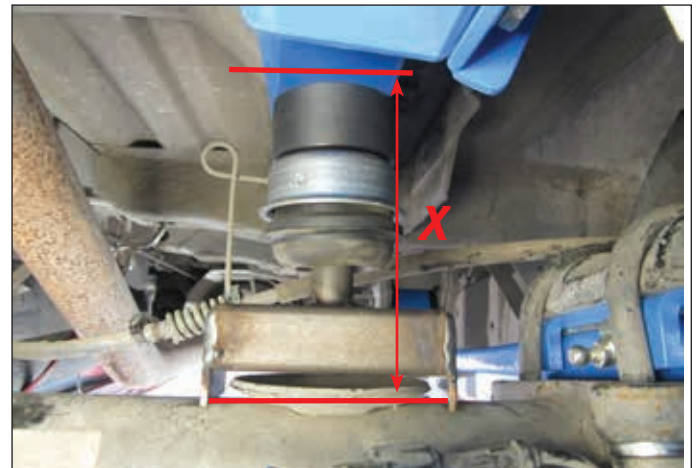
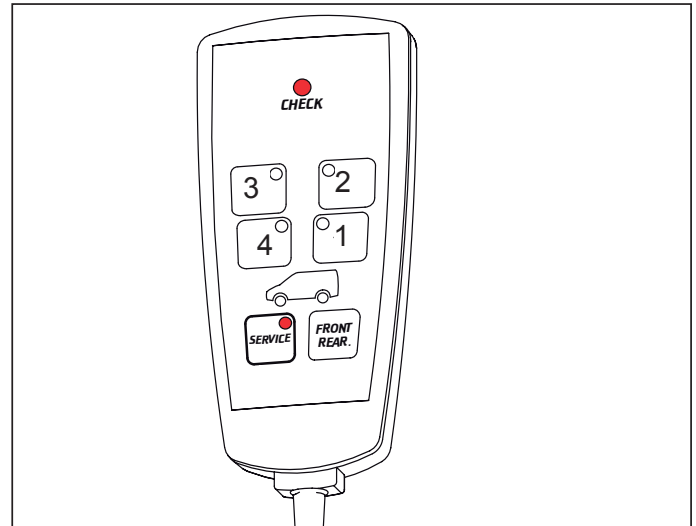
Calibration mode has been activated.

The rear axle LED and the CHECK-LED will start to flash.

6. Use the arrow buttons to raise the vehicle. Place the calibration supports under the vehicle.
7. Lower the vehicle onto the calibration supports.



Go to section 2 for details of the correct calibration supports for this kit.



8. Use the arrow buttons to allow all the air to vent from the air springs. The air springs are empty once the hissing sound can no longer be heard.
9. The calibration height has been reached. Hold down the **SERVICE** button until the long tone is heard. The ride-height has been stored.
10. Briefly press the **SERVICE** button once. Calibration mode is closed. The system restarts.
11. Briefly press the **SERVICE** button once. SERVICE mode is closed.
12. Use the arrow buttons to raise the vehicle.
13. Remove the calibration supports from under the vehicle.
14. Set the vehicle to the ride-height.
15. Turn the ignition off.
16. Tighten all nuts and bolts indicated in the manual with **.
17. Have the headlamp adjustment checked by a dealer.
18. Check the vehicle using the checklist in this manual.

6. Checklist

6.1 Final checks

	OK
1.1 Ride-height correctly calibrated.	<input type="checkbox"/>
1.2 Front axle/rear axle aligned.	<input type="checkbox"/>
1.3 Height sensors correctly fitted.	<input type="checkbox"/>
1.4 Shock absorbers vented.	<input type="checkbox"/>
1.5 Bolts tightened to correct torque and ticked off.	<input type="checkbox"/>
1.6 Air tubes, wires and connectors properly secured.	<input type="checkbox"/>
1.7 System checked for air tightness.	<input type="checkbox"/>
1.8 Clearance around air springs checked.	<input type="checkbox"/>
1.9 Headlamp adjustment checked.	<input type="checkbox"/>
1.10 Documentation present.	<input type="checkbox"/>
1.11 Warranty form completed and identification stickers affixed to vehicle.	<input type="checkbox"/>

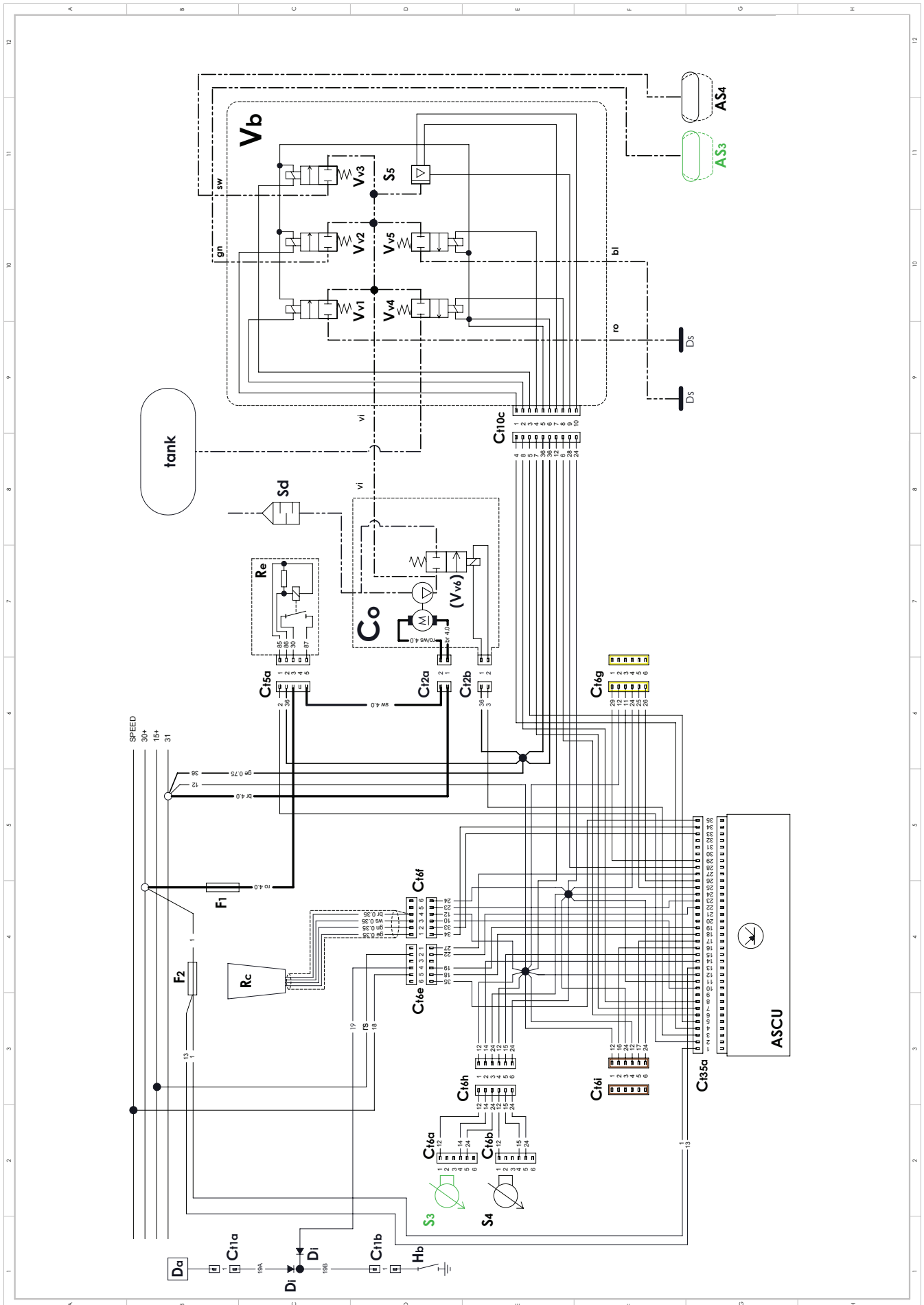
6.2 System functions


	OK
2.1 Raise manually.	<input type="checkbox"/>
2.2 Lower automatically.	<input type="checkbox"/>
2.3 Lower manually.	<input type="checkbox"/>
2.4 Raise automatically.	<input type="checkbox"/>
2.5 Test drive carried out.	<input type="checkbox"/>

SYSTEM OK

☐

7. Electrical diagram



Name	Description
ASCU	VB-ASCU (electronic control unit)
AS3	Air spring, rear left
AS4	Air spring, rear right
Ct2a	Connector, 2-pin, compressor power supply
Ct2b	Connector, 2-pin, dump valve on compressor
Ct5a	Connector, 5-pin, compressor relay
Ct6c	Connector, 6-pin, height sensor left
Ct6d	Connector, 6-pin, height sensor right
Ct6e	Connector, 6-pin, VB supply cable
Ct6f	Connector, 6-pin, remote control
Ct6g	Connector, 6-pin, connector option (yellow)
Ct6h	Connector, 6-pin, rear axle height sensors (white)
Ct6i	Connector, 6-pin, front axle height sensors (brown)
Ct10c	Connector, 10-pin, valve block
Ct35a	Connector, 35-pin, VB-ASCU
Co	Compressor
Ds	End plug
F1	Fuse, compressor, 40 A
F2	Fuse, VB-ASCU, 7.5 A
Re	Compressor relay
Rc	Remote control
S3	Height sensor, rear left
S4	Height sensor, rear right
S5	Pressure sensor on valve block
Sd	Air silencer/filter
Tank	Air tank (option)
Vb	Valve block
Vv1	Valve for front right air spring on valve block
Vv2	Valve for rear left air spring on valve block
Vv3	Valve for rear right air spring on valve block
Vv4	Dump valve to vent air on valve block
Vv5	Valve for front left air spring on valve block
Vv6	Dump valve on compressor
Colour codes (yellow with wire number is not indicated)	
bl	Blue
br	Brown
ge	Yellow
gn	Green
ro	Red
ro/ws	Red/white
rs	Pink
sw	Black
vi	Purple
ws	White
	0.50 mm²
	0.75 mm²
	4.00 mm²
	Air tube



VB-Airsuspension is one of the few European manufacturers producing a wide range of (air) suspension systems. From semi air suspension and reinforced coil springs to complete, comprehensive air suspension systems: we offer our customers solutions for various vehicles, such as emergency vehicles, car transporters, motorhomes etc. Now you can see why an increasing number of truck and body manufacturers are incorporating VB-Airsuspension's systems in their own ranges.



Dealer:



www.vbairsuspension.com