



FITTING INSTRUCTIONS

making everyday smoother



- Increased comfort • Better driveability • More safety



LAND ROVER DEFENDER

**with VB-FullAir
for front and rear axle
FOR KIT 1051601XXX**

What has changed?

New version number:	V1.1
Release date:	3/26/2015
Changed compared to	V1.0
Page: (New version)	Changes
7	Compressorbox mounting changed
8	Add step for changing air coupling on valveblock
8	Changed position of routing the wiring harness to the inside
12	Add extra chapter for heightsensors on Defender 90
16+22	Add extra steps for mounting the inlet line and cover plate on compressorbox
17	Changed position of warranty sticker A+B
18	New fitting sequence of mounting air spring front axle
19+20	Added extra pictures for shock absorber brackets
21	Fitting the breather hose on the torque arm



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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

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

	<p><i>When the tip symbol is shown, information is provided that will help make installation of the air suspension kit simpler.</i></p>
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Torque

	<p><i>In this manual there is a check box next to each bolted joint showing the torque to be used when tightening the bolted joint.</i></p>
xx Nm	

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.

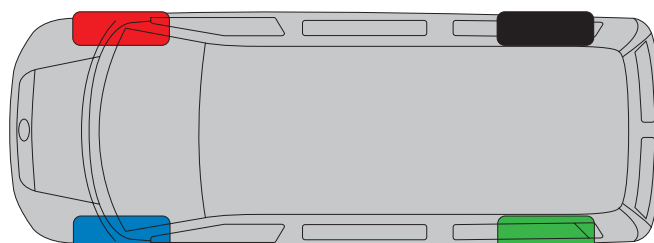
Staff must be experienced in working on light commercial vehicles, particularly in relation to electrics/electronics, pneumatics and general vehicle mechanics.

- 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 behind after completing work.
- 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:
Front axle	X = 150 mm	009 000 00 75
Rear axle	X = 325 mm	009 000 00 76

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

Colour	Description
Green	Rear left
Black	Rear right
Blue	Front left
Red	Front right



3. Explanatory notes to this manual

This manual is intended for the air suspension kit for the:

- Land Rover Defender

This manual describes the steps for fitting the air suspension to the front and/or rear axle. Follow the instructions in the appropriate section for the kit you are installing.

If you have a rear axle air suspension kit with part number 10516012XX, go to sections 4 and 5.

If you have a front axle air suspension kit with part number 10516014XX, go to sections 4, 5 and 6 of this manual to fit the front and rear axle air suspension.

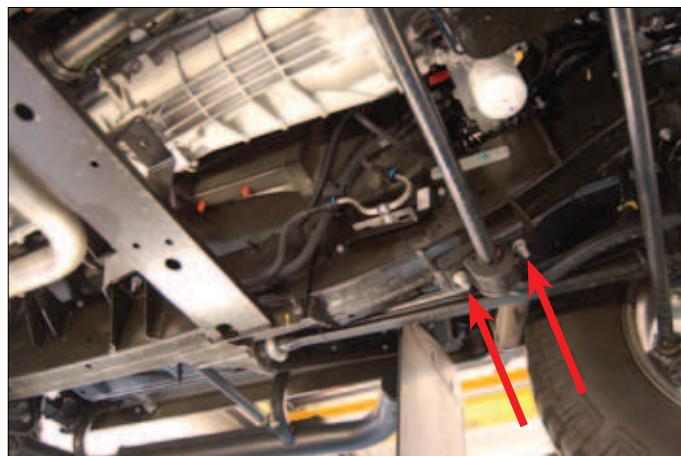
The table below shows which sections you need to read:

Which axle?	Kit number	Section
Rear axle	105 16 01 2XX	4, 5
Front and rear axle	105 16 01 4XX	4, 5, 6

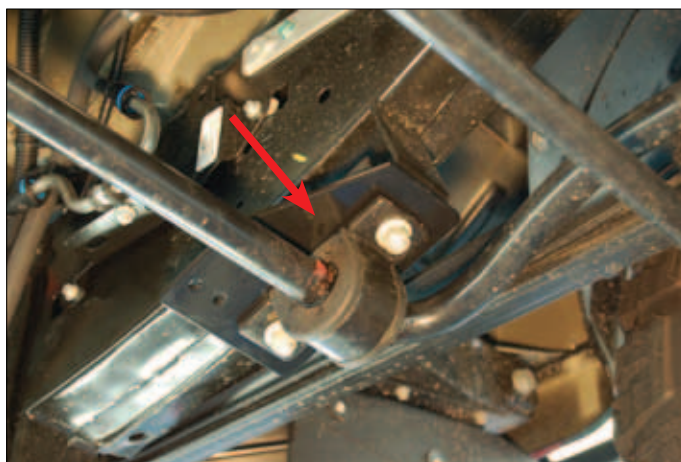
4. Compressor box and wiring harness

4.1 Compressor box

1. Remove the marked bolts.
Do this on both sides.



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



Original fasteners



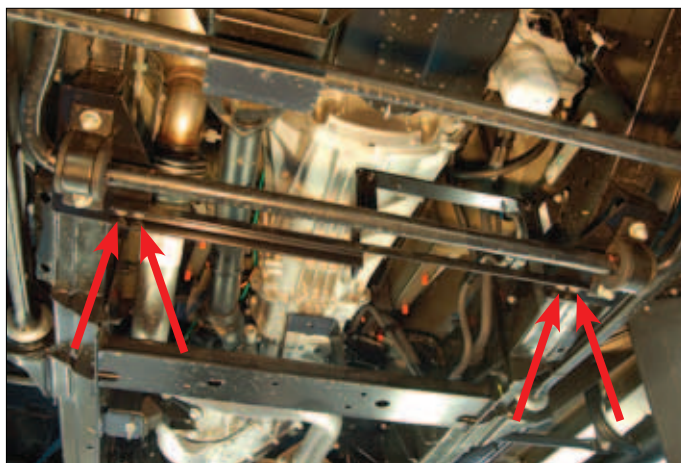
40 Nm

3. Fit the compressor box suspension support to the mounting plates.

4 x bolt**	M6 x 20
8 x washer	M6
4 x lock nut	M6



8 Nm



4. Remove the marked bolts.



- Fit the compressor box suspension support to the chassis.

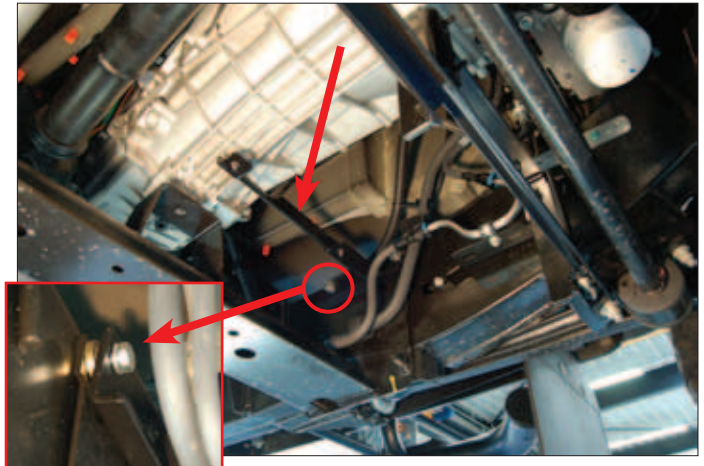


Fit 3 sheet-metal rings between the compressor box suspension support and the chassis.

2 x bolt**	M10 x 110
6 x sheet-metal ring	M10
2 x washer	M10
2 x lock nut	M10



60 Nm



Replace the two air couplings (Ø 6 mm) on the valve block with the two air couplings (Ø 4 mm) (RL and RR) supplied.

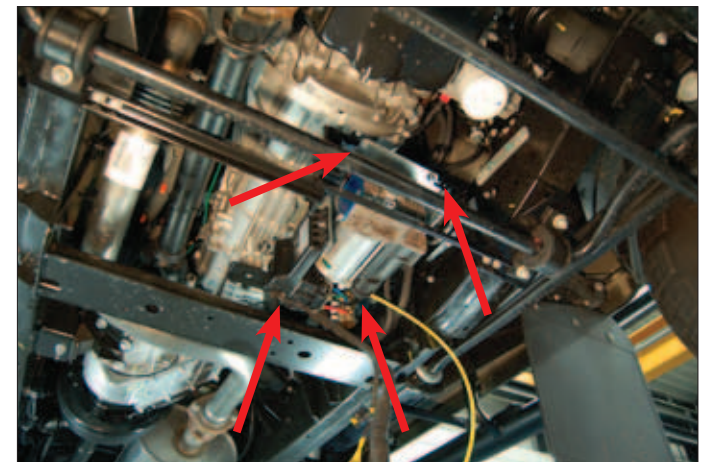


- Fit the compressor box to the bracket.

4 x flange lock nut	M6
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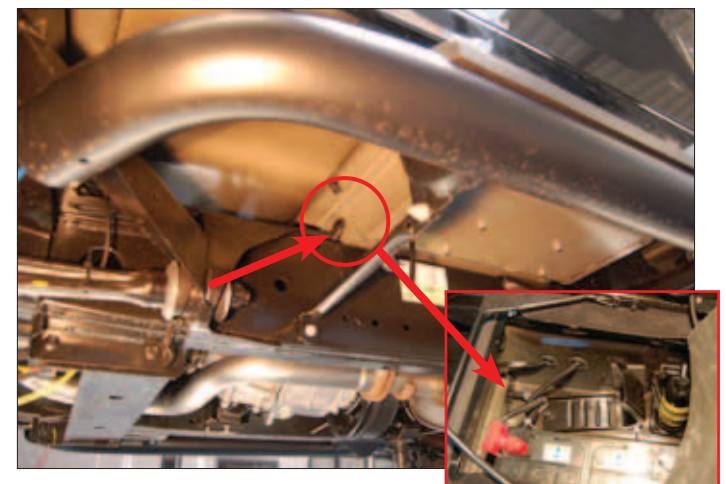
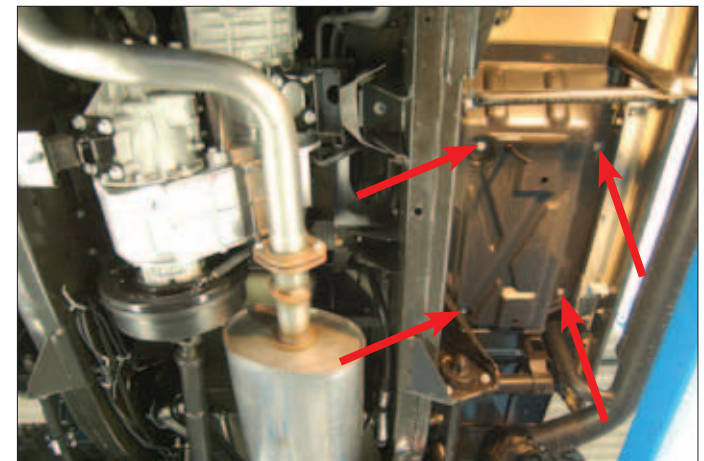


8 Nm

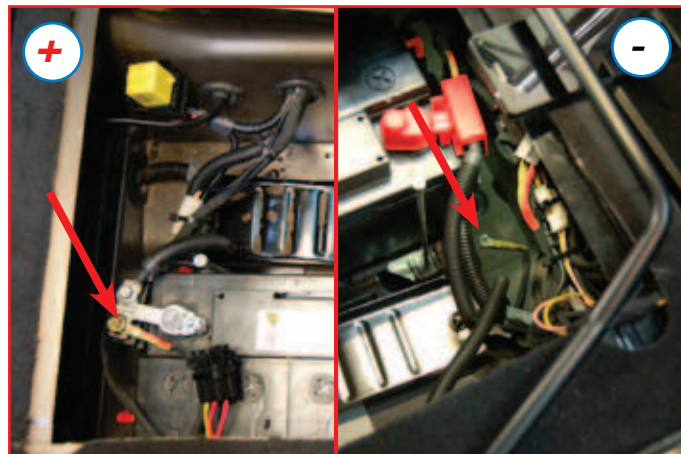


4.2 Wiring harness

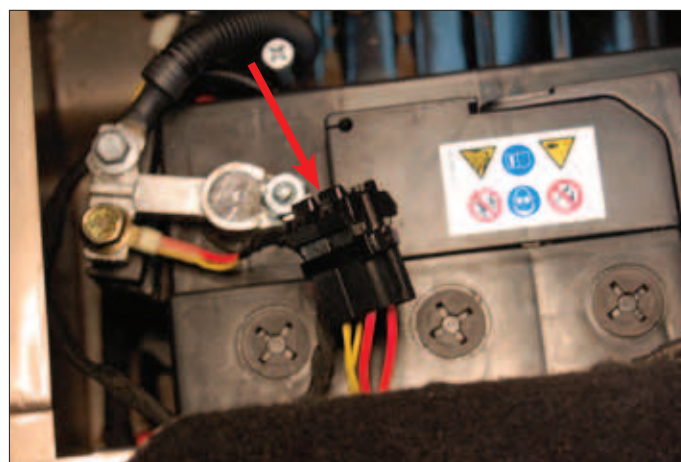
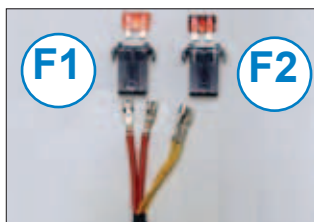
- Remove the specified covers (if present).
- Remove the seat area from the driver's seat.
- Take the cover plate off the battery housing.
- Route the wiring harness to the front of the driver's seat.
- Route the VB wiring harness through the indicated hole to the inside.



6. Connect the red wire to the connection marked on the positive battery terminal (+).
7. Connect the yellow and brown wire to the earth point.



8. Connect the two yellow wires to the fuse block to which the **F2 7.5 A** fuse will later be connected.
9. Connect the two red wires to the fuse block to which the **F1 40 A** fuse will later be connected.



10. Do not fit the fuses yet.
11. Fit the fuse block as shown.

4.2.1 Supply cable

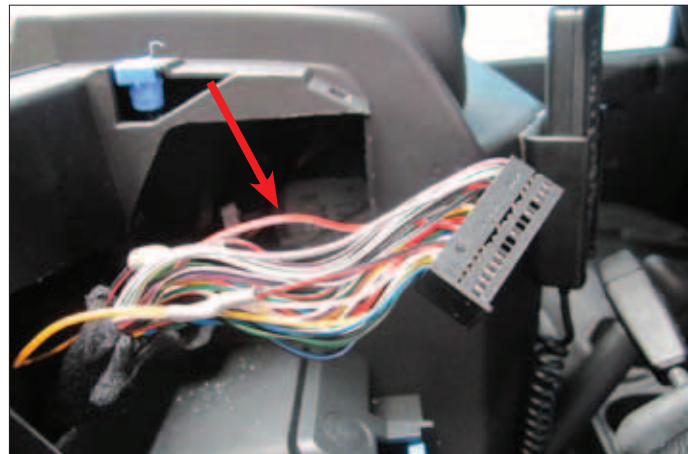
1. Connect the supply cable to the white connectors.
2. Route the supply cable to the rear of the instrument panel.



3. Remove the instrument panel from the dashboard.



4. Using the red connector, connect yellow wire no. 18 to the speed signal wire (black/red) on pin 13 in the connector. Remove the dashboard panel.



5. Remove the connector from the cigarette lighter.
6. Connect the VB connector to the original cigarette lighter connector.
7. Connect the VB connector to the cigarette lighter.



4.2.2 Remote control

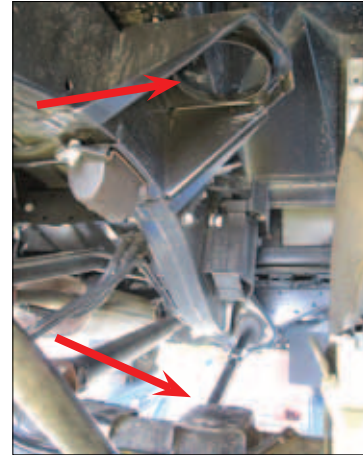
1. Identify a suitable location to install the remote control.
 2. Place the remote control in the holder.
 3. Ensure that the connector is not under tension.
 4. Secure the end of the wire with a tie-wrap.
-
5. Connect the remote control wire to the VB wiring harness.
 6. Refit the interior components removed earlier.
 7. Ensure that the wires are neatly organised.



5. Fitting the air suspension kit for the rear axle

5.1 Preparations

1. Remove the shock absorbers.
2. Remove the springs.
3. Remove the lower spring bracket.



5.2 Air spring

1. Fit the air couplings to the air springs.

2 x air coupling



5 Nm

2. Fit the top of the air spring.
3. Use the black mounting plate at the top of the air spring and the plate at the top of the bellows support. The air coupling must face skewed towards the front and inside of the vehicle.
4. Fit the air spring as far towards the outside as possible, see photograph.

4 x UNC-bolt** **3/8 x 1 3/4**
4 x washer **M10**



20 Nm

5. Fit the lower mounting support to the air spring.

2 x countersunk **3/8 x 1 3/4**
UNC-Allanscrew



20 Nm

6. Fit the bottom of the air spring to the rear axle.
7. Pump air into the air springs with an external air supply so that the rubber is pulled straight.
8. Tighten the bolts at the top.

4 x lock nut **M10**
4 x washer **M10**



20 Nm



5.3 Shock absorbers

1. First vent the shock absorbers before they are fitted.
2. Clamp the shock absorbers vertically in a bench vice.



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

3. Gently push the top down and then slowly pull it up again.
4. A slurping noise may be heard at the end of the stroke; this indicates the presence of air.
5. Continue this pumping action until the slurping noise is no longer heard.



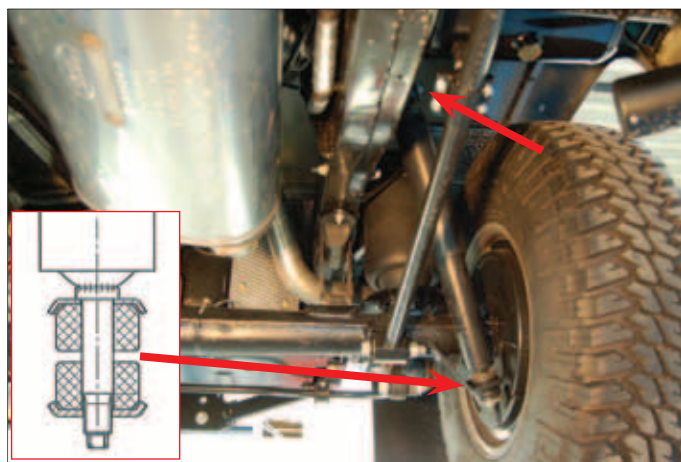
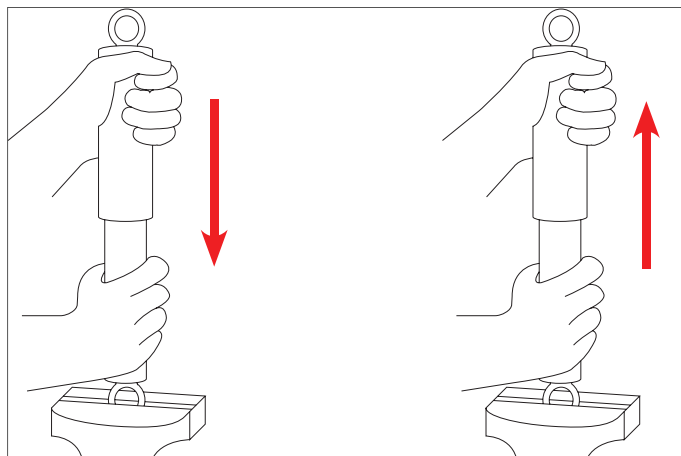
Always hold the shock absorber with the top pointing up. If you don't do this, air will enter the shock absorber again.

6. Fit the shock absorbers.

supplied fasteners



100 Nm



5.4 Height sensors

5.4.1 Height sensors Defender 90

1. Fit the height sensor to the height sensor bracket.



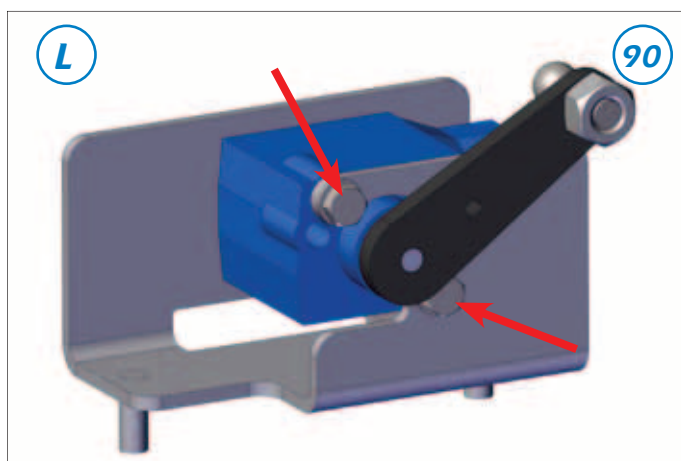
The colour markings indicate which part is for the left and which for the right. See 'Fitting instructions'.

2 x bolt M5 x 10

2 x washer M5



5 Nm



2. Fit the height sensor to the height sensor bracket.



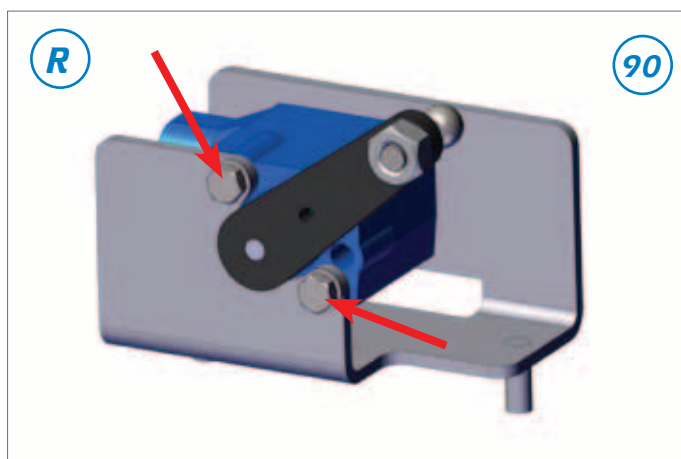
The colour markings indicate which part is for the left and which for the right. See 'Fitting instructions'.

2 x bolt M5 x 10

2 x washer M5



5 Nm



3. Fit the height sensor brackets in the position indicated.



Fit the height sensor bracket locating pin when mounting on the chassis.

2 x lock nut

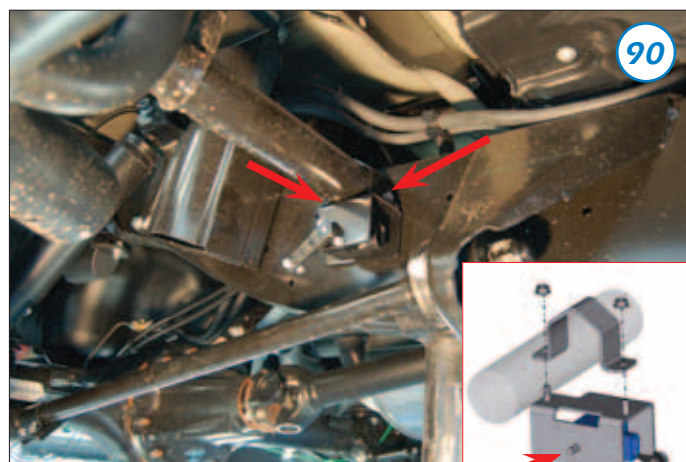
M6

2 x washer

M6



8 Nm



4. Fit the ball-joint bracket to the torque arm.

8 x flange lock nut

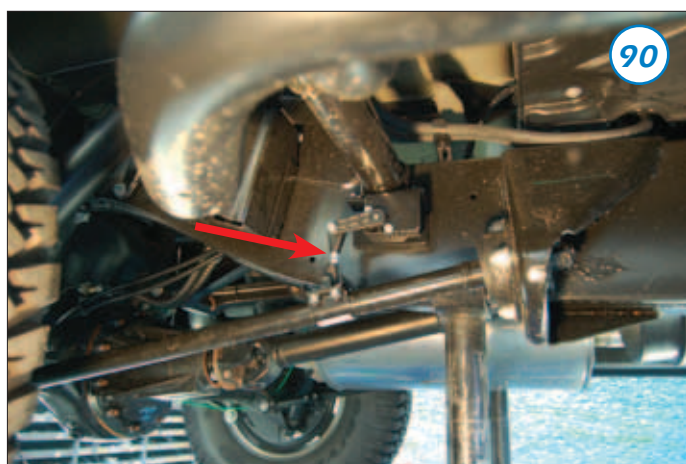
M6



6 Nm



5. Check the length of the height sensor rods ($L = 60 \text{ mm}$) measured centre to centre.
6. Fit the height sensor rods to the height sensors.
7. Fit the height sensor rods to the ball-joints.

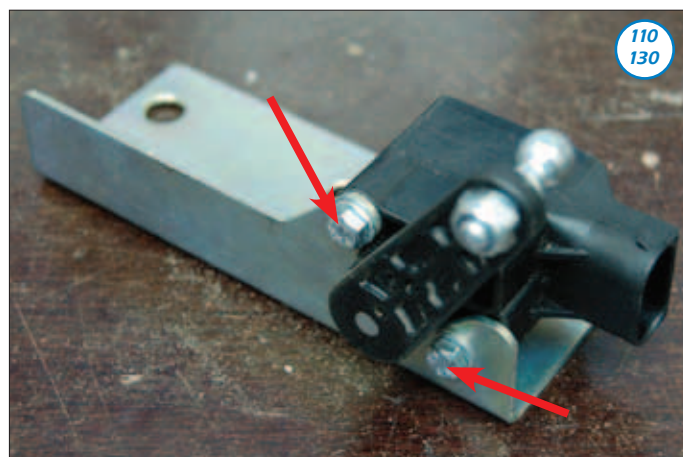


5.4.2 Height sensors Defender 110&130

1. Fit the height sensor to the height sensor bracket.

	<p>The colour markings indicate which part is for the left and which for the right. See 'Fitting instructions'.</p>
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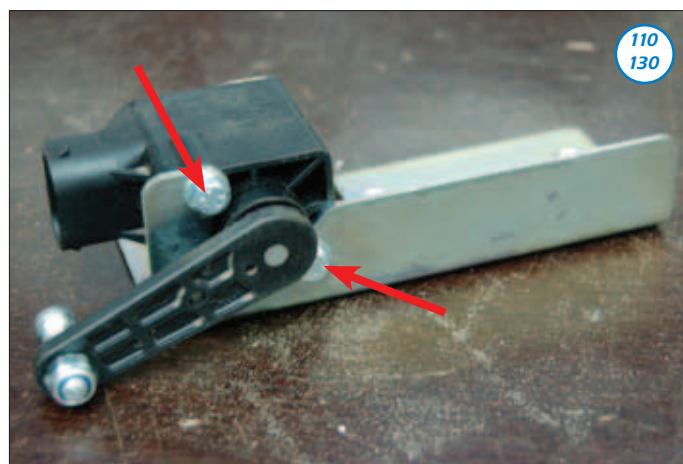
2 x bolt	M5 x 10
2 x washer	M5
	5 Nm



2. Fit the height sensor to the height sensor bracket.

	<p>The colour markings indicate which part is for the left and which for the right. See 'Fitting instructions'.</p>
--	--

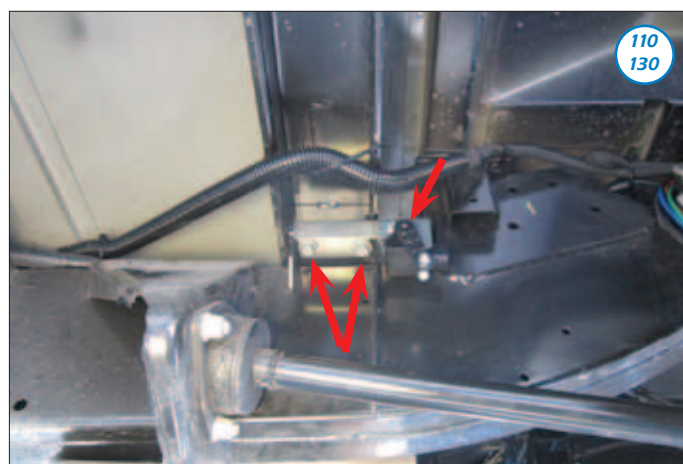
2 x bolt	M5 x 10
2 x washer	M5
	5 Nm



3. Fit the height sensor brackets in the position indicated.

	<p>The height sensor bracket must be fitted at the point where the body is fitted to the chassis.</p>
--	--

original fasteners	
	20 Nm



4. Fit the ball-joint bracket to the torque arm.

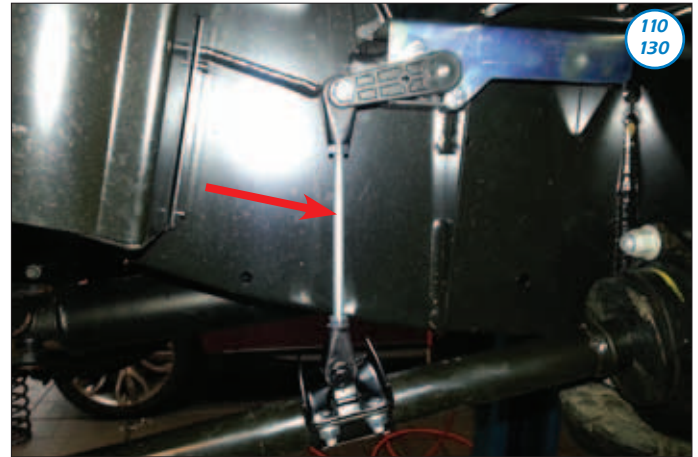
	<p>The distance between the ball-joint bracket and the flange on the torque arm is 140 mm.</p>
--	---

	<p>The height sensor rod must be fitted vertically.</p>
--	--

8 x flange lock nut	M6
	6 Nm



5. Check the length of the height sensor rods ($L = 145 \text{ mm}$) measured centre to centre.
6. Fit the height sensor rods to the height sensors.
7. Fit the height sensor rods to the ball-joints.

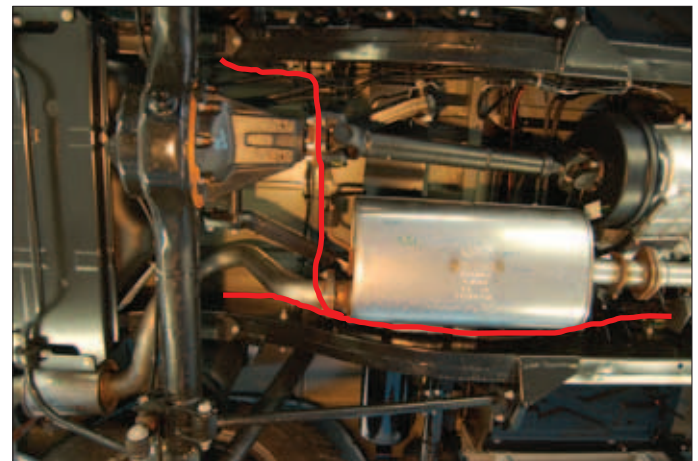


5.5 Air tubes

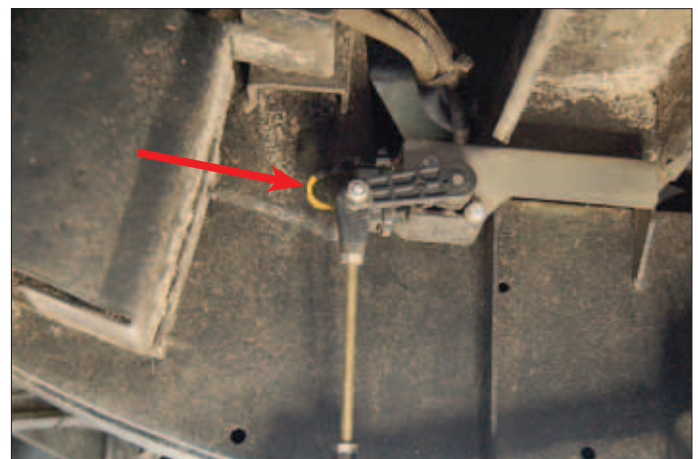
1. Connect the black air tube to the right air spring.
2. Connect the green air tube to the left air spring.



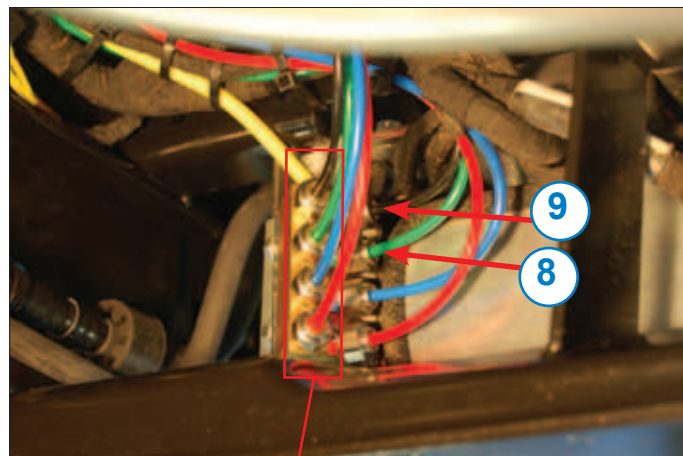
3. Route the air tubes along the left-hand side of the chassis to the compressor box.
4. Connect the height sensor wires on the rear axle to the connector with the white colour code.



5. Route the right height sensor cable along the black air tube to the rear right height sensor.
6. Route the left height sensor cable along the green air tube to the rear left height sensor.
7. Connect the cables to the height sensors.

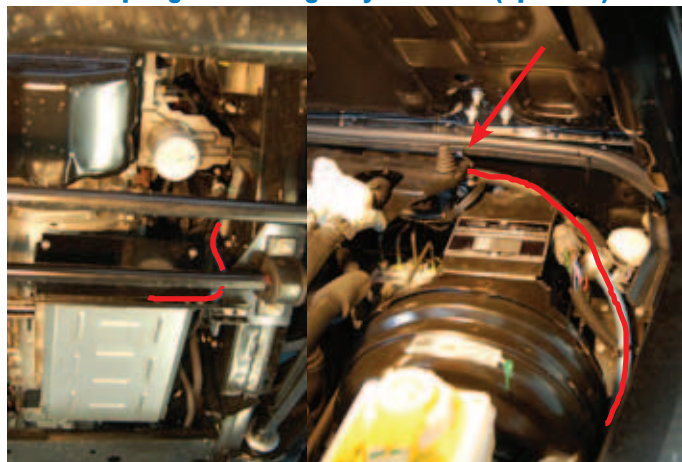


8. Fit the green air tube to the air coupling on the junction block on the outside of the compressor box.
9. Fit the black air tube to the air coupling on the junction block on the outside of the compressor box.
10. Ensure that the colour markings match.
11. If kit 105 16 01 2XX for the rear axle has been fitted, seal the unused air couplings with the end plugs supplied.

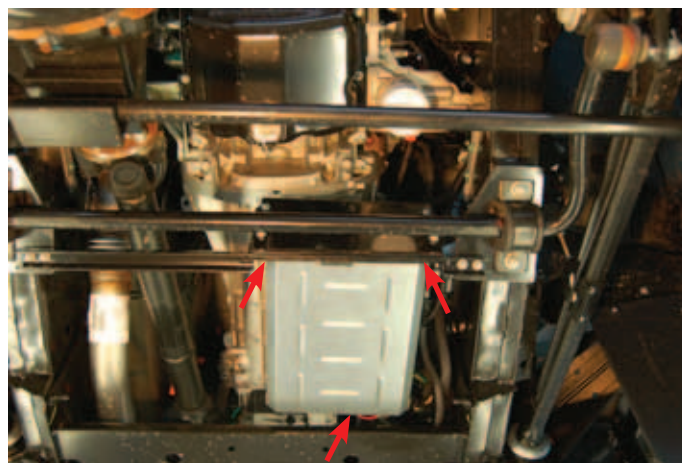


Air couplings for emergency valve kit (optional)

12. If kit 105 16 01 4XX for the front and rear axle has been fitted, continue from section 6.
13. Route the inlet line up via the brake servo unit as shown.
14. Fit the inlet filter on the inlet line.
15. Fit the inlet line under the bonnet.



16. Fit the cover of the compressor box.



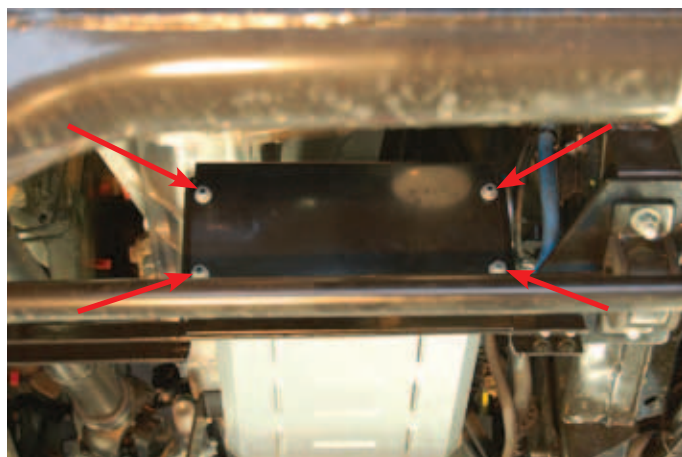
3 x flange lock nut

M6



5 Nm

17. Fit the cover plate to the compressor box.



4 x flange lock nut

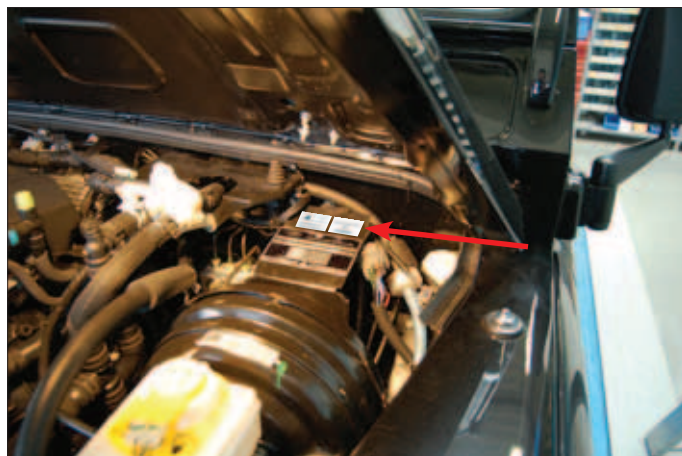
M6



5 Nm

5.6 Warranty stickers

1. Affix the supplied warranty stickers **A + B** to the bracket above the vehicle type plate.



2. Affix sticker **B** to the upper spring plate.



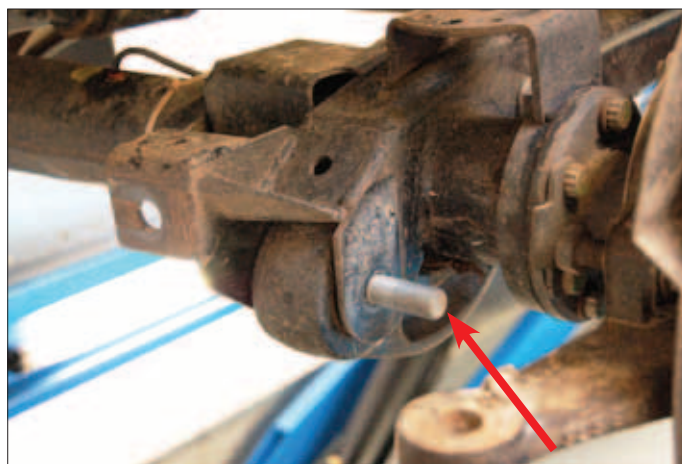
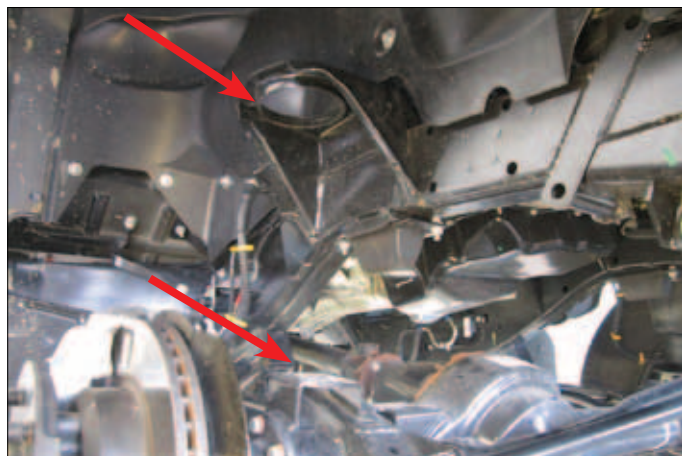
If kit 105 16 01 2XX for the rear axle has been fitted, continue from section 7.1.

If kit 105 16 01 4XX for the front and rear axle has been fitted, continue from section 6.

6. Fitting the air suspension kit for the front axle

6.1 Preparations

1. Remove the wheels
 2. Remove the shock absorbers.
 3. Remove the springs.
 4. Remove the lower spring bracket.
-
5. Remove the nut from the torque rod.



6.2 Air spring

1. Fit the air couplings to the air springs.

Air coupling



5 Nm

2. Fit the air spring to the black mounting plate.

4 x Allan screw UNC

3/8 x 3/4



8 Nm

3. Fit the air spring to the upper mounting support.
Observe L and R as shown.

8 x countersunk Allen screw M6 x 16



6 Nm

4. Fit the air spring to the top of the shock absorber bracket. The shock absorber must be fitted at the front.



The air coupling must face skewed towards the front and inside of the vehicle.

8 x lock nut

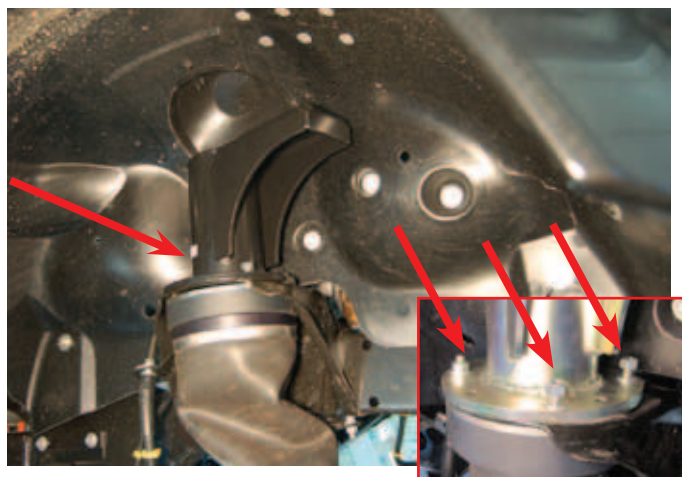
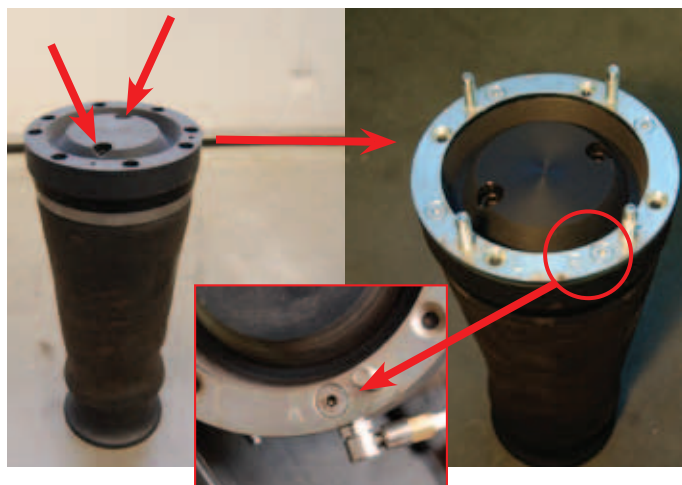
M8

8 x washer

M8



20 Nm



- Fit the lower mounting support to the air spring.



The centre of the air spring must be fitted behind the centre of the bracket.

2 x countersunk Allen screw 3/8 x 1 1/2 UNC



10 Nm



- Fit the bottom of the air spring to the rear axle.
- Pump air into the air springs with an external air supply so that the rubber is pulled straight.
- Tighten the bolts at the top.

4 x lock nut

M8

4 x washer

M8



20 Nm



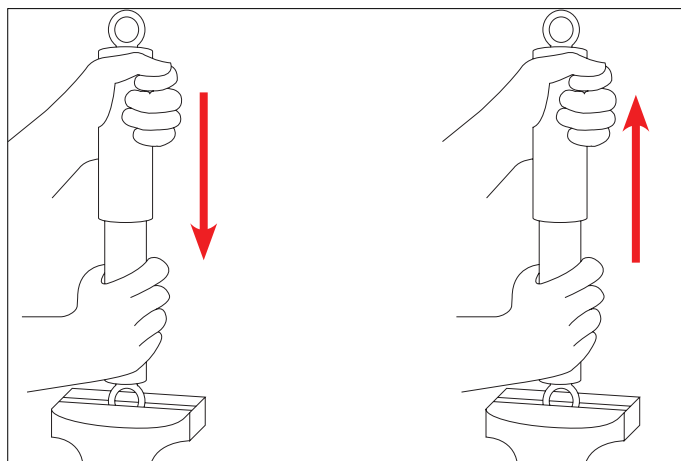
6.3 Shock absorbers

- First vent the shock absorbers before they are fitted.
- Clamp the shock absorbers vertically in a bench vice.



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

- Gently push the top down and then slowly pull it up again.
- A slurping noise may be heard at the end of the stroke; this indicates the presence of air.
- Continue this pumping action until the slurping noise is no longer heard.



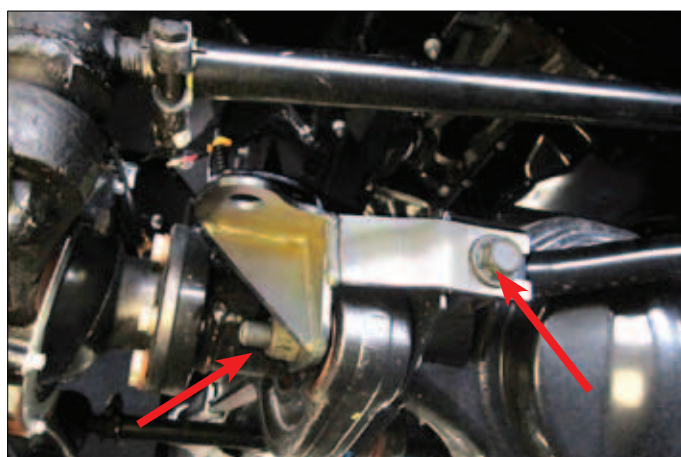
Always hold the shock absorber with the top pointing up. If you don't do this, air will enter the shock absorber again.

- Fit the right shock absorber bracket.

Original fasteners



120 Nm



7. Fit the left shock absorber bracket.

1 x countersunk Allan screw M16 x 40
 1 x countersunk washer M16
 1 x washer M16
 1 x lock nut M16



120 Nm

Original fasteners



120 Nm

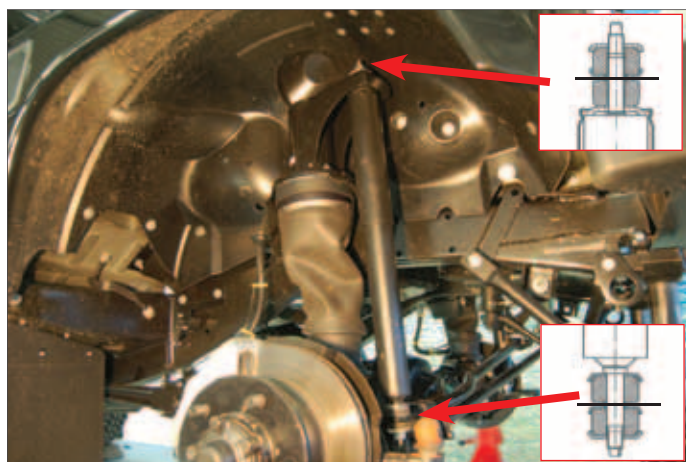


8. Fit the shock absorbers.

supplied fasteners



120 Nm



6.4 Height sensors

1. Fit the height sensor to the height sensor bracket.

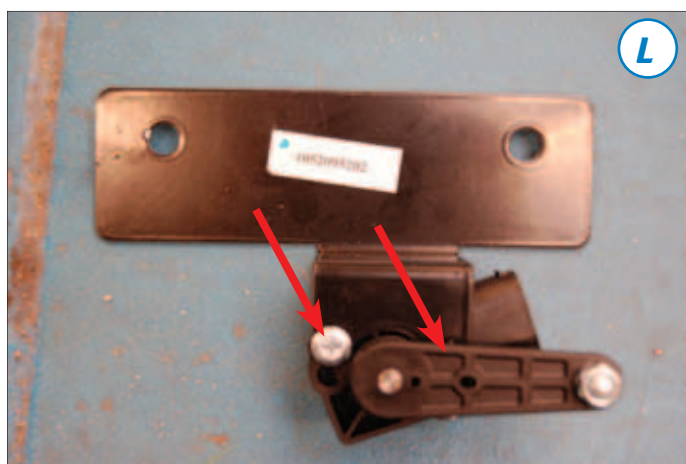


**The colour markings indicate which part is for the left and which for the right.
 See 'Fitting instructions'.**

2 x bolt M5 x 10
 2 x washer M5



5 Nm



2. Fit the height sensor to the height sensor bracket.



**The colour markings indicate which part is for the left and which for the right.
 See 'Fitting instructions'.**

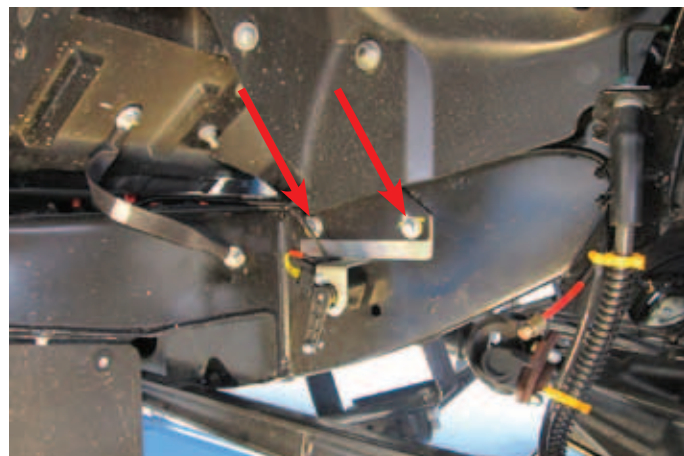
2 x bolt M5 x 10
 2 x washer M5



5 Nm





- Fit the height sensor brackets at the specified point between the chassis and the body mounting plate.



Original fasteners	
	20 Nm

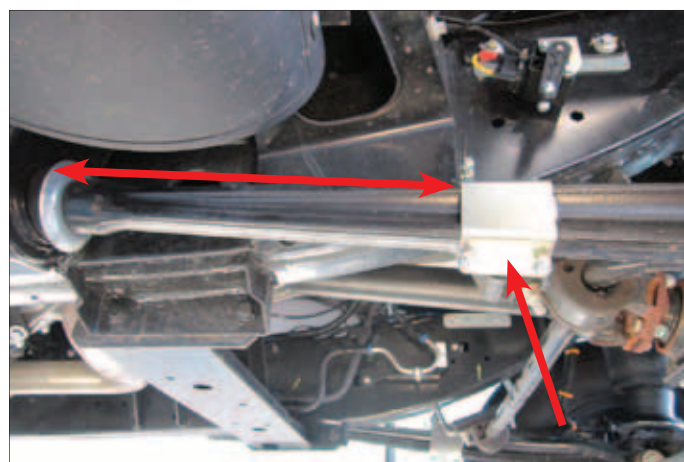
- Fit the ball-joint bracket to the torque arm.

	The breather hose must be fitted between the ball-joint bracket and the torque arm.
---	--

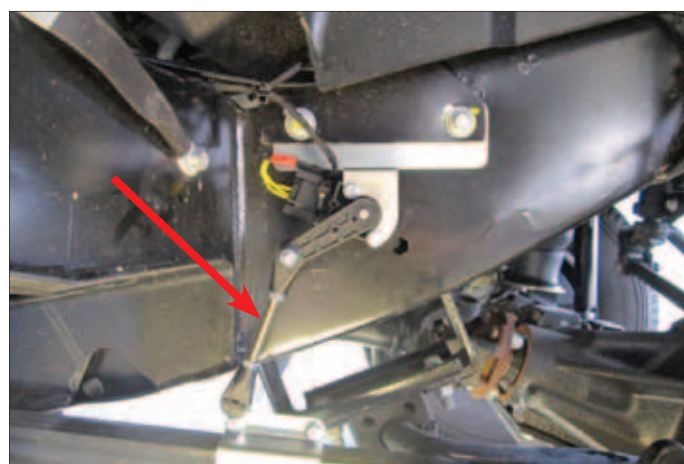
	The distance between the ball-joint bracket and the flange on the torque arm is 305 mm.
---	--

8 x flange lock nut	M6
	8 Nm

	The height sensor rod must be fitted vertically.
---	---

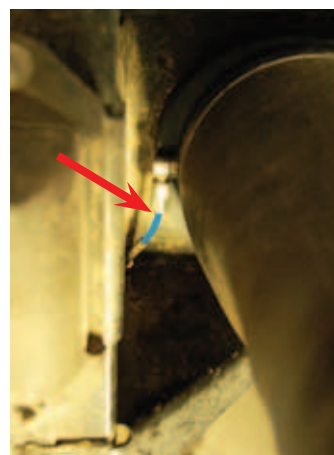


- Check the length of the height sensor rods (**L = 100 mm**) measured centre to centre.
- Fit the height sensor rods to the height sensors.
- Fit the height sensor rods to the ball-joints.

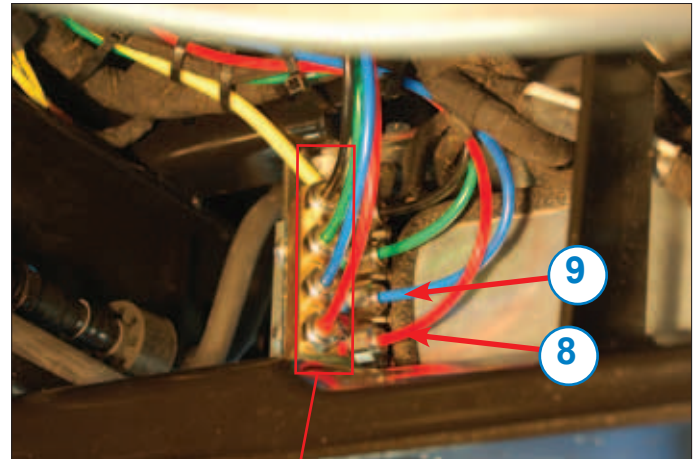


6.5 Air tubes

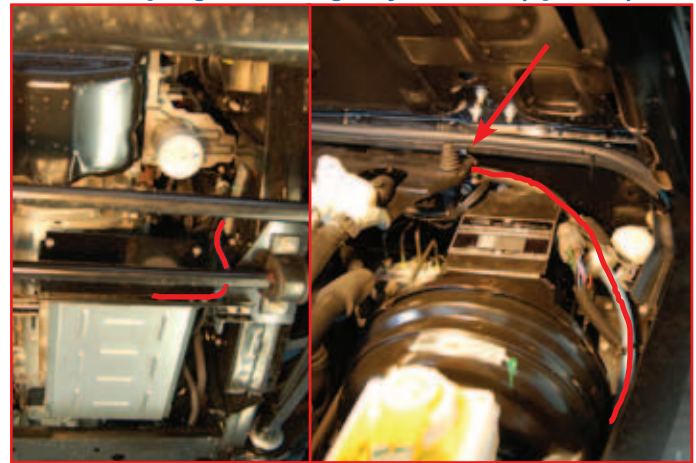
- Connect the **blue** air tube to the left air spring.
- Connect the **red** air tube to the right air spring.
- Route the air tubes along the left-hand side of the chassis to the compressor box.



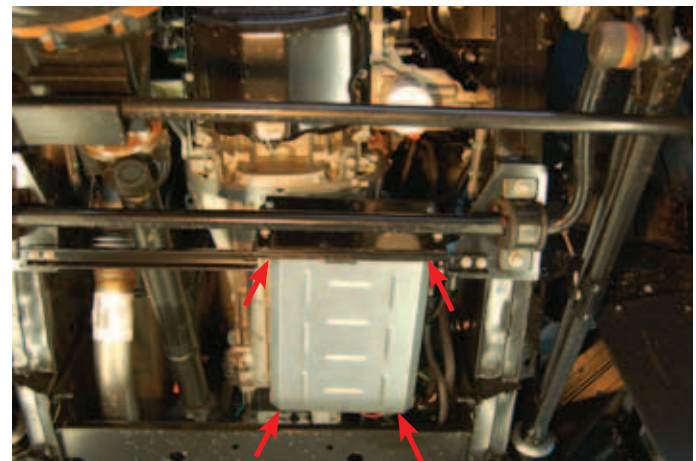
4. Connect the front axle height sensor cable using the connector marked in brown.
5. Route the left height sensor cable along the blue air tube to the front left height sensor.
6. Route the right height sensor cable along the red air tube to the front right height sensor.
7. Connect the cables to the height sensors.
8. Fit the red air tube to the air coupling on the junction block on the outside of the compressor box.
9. Fit the blue air tube to the air coupling on the junction block on the outside of the compressor box.
10. Ensure that the colour markings match.
11. Route the inlet line up via the brake servo unit as shown.
12. Fit the inlet filter on the inlet line.
13. Fit the inlet line under the bonnet.



Air couplings for emergency valve kit (optional)



14. Fit the cover of the compressor box.



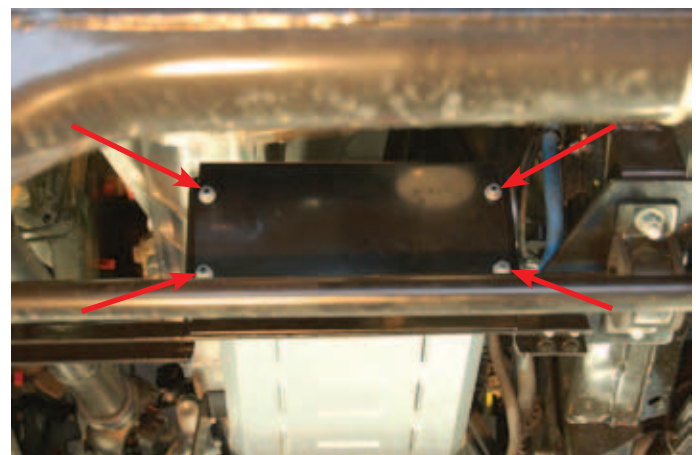
3 x flange lock nut

M6



5 Nm

15. Fit the cover plate to the compressor box.



4 x flange lock nut

M6

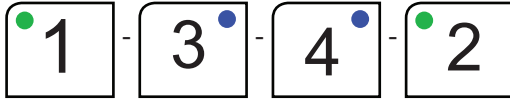


5 Nm

7. Calibration

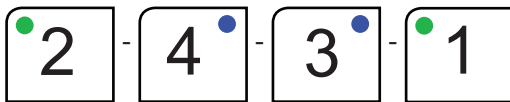
7.1 Calibrating 2C rear axle with 105 16 01 2XX kit

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 is activated.

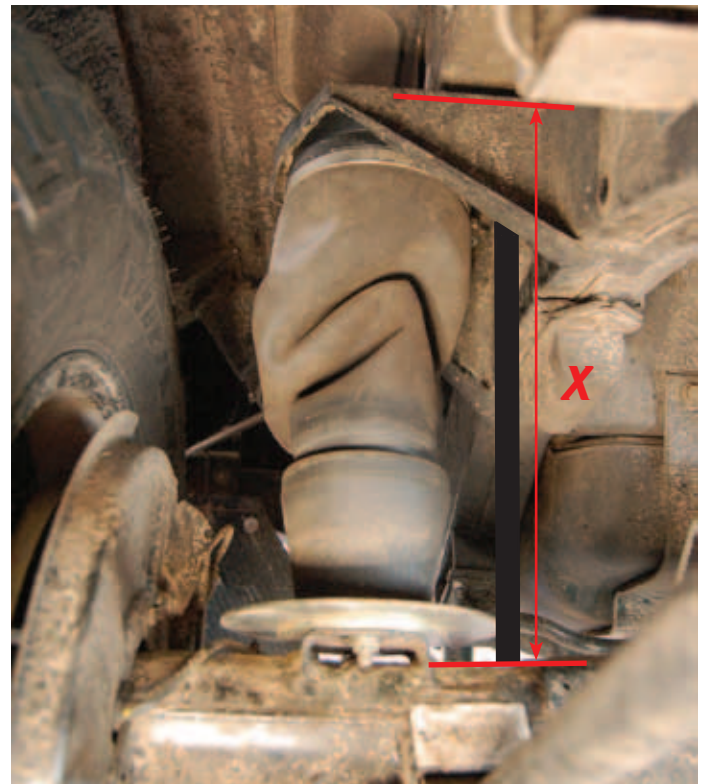
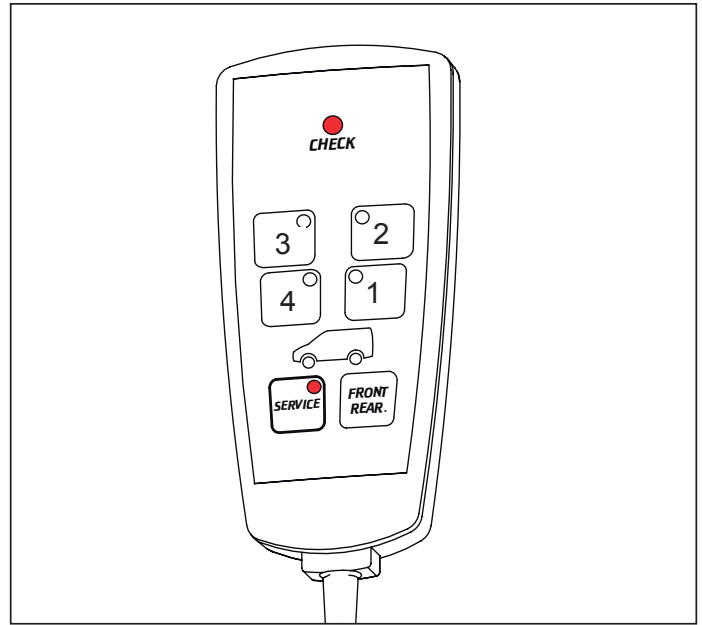
The rear axle LED and the CHECK-LED will start to flash.

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



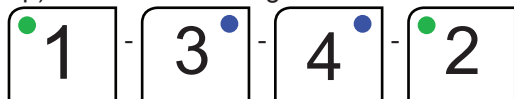
Go to section 2 for details of the correct calibration supports for this kit.

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.



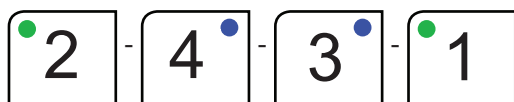
7.3 Calibrating 4C front axle and rear axle with 105 16 01 4XX kit

1. Place the fuses in the fuse blocks.
(**F1** = 40 A + **F2** = 7.5 A).
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 is 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.

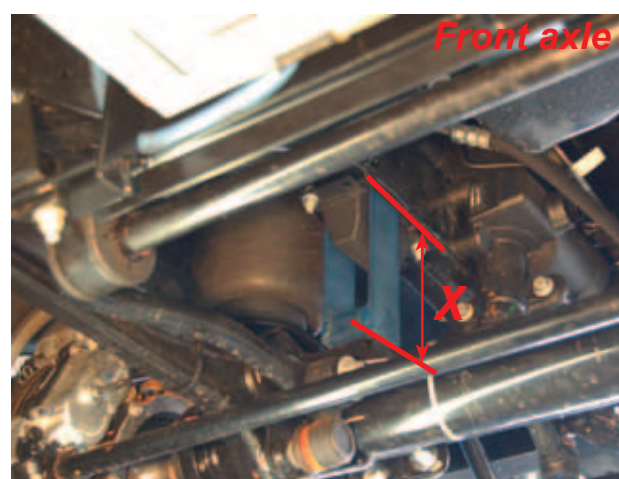
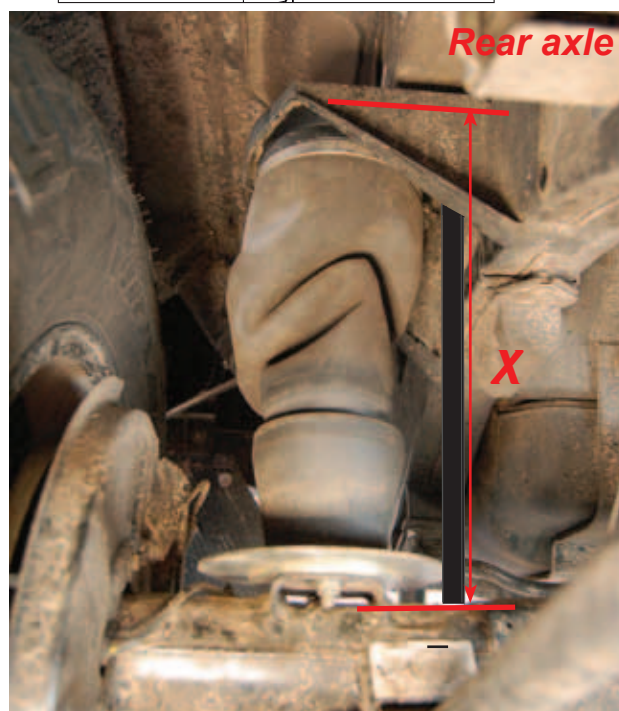
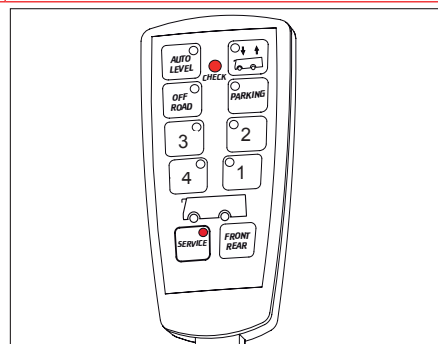


The bump stop must be removed from the front axle before calibration.

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 a long tone is heard. The ride-height has been stored.
10. Briefly press the **FRONT-REAR** button once to select the front axle.
11. Use the arrow buttons to set the front axle to the right height. The height is determined by the calibration supports and is measured as shown in the illustration.
12. Once the correct height has been set, hold down the **SERVICE** button until you hear a long tone. The ride-height has been stored.
13. Briefly press the **SERVICE** button. Calibration mode is closed. The system restarts.
14. Switch service mode off by briefly pressing the **SERVICE** button again.
15. Use the arrow buttons to raise the vehicle.
16. Remove the calibration supports from under the vehicle.
17. Mount the bump stops on the front axle.
18. Set the vehicle to the ride-height.
19. Turn the ignition off.
20. Tighten all nuts and bolts indicated in the manual with ******.
21. Have the headlamp adjustment checked by a dealer.
22. Check the vehicle using the checklist in this manual.



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



8. Checklist

8.1 Final checks

OK

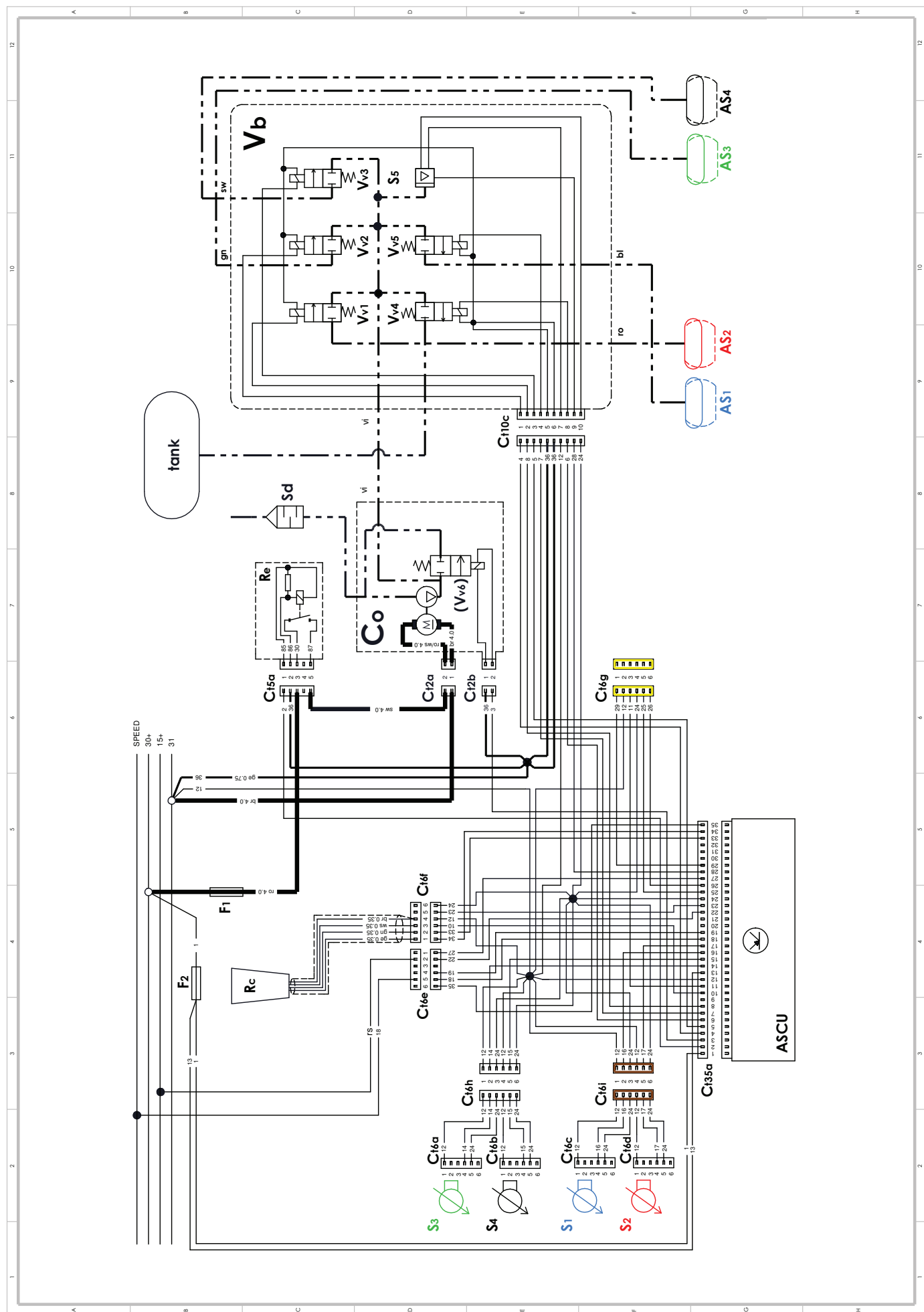
- | | | |
|------|---|--------------------------|
| 1.1 | Ride-height correctly calibrated. | <input type="checkbox"/> |
| 1.2 | Front axle/rear axle aligned. | <input type="checkbox"/> |
| 1.3 | Height sensors correctly fitted. | <input type="checkbox"/> |
| 1.4 | Shock absorbers vented. | <input type="checkbox"/> |
| 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"/> |

8.2 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 passed. | <input type="checkbox"/> |

9. Electrical diagram



Name	Description
ASCU	VB-ASCU (electronic control unit)
AS1	Air spring, front left
AS2	Air spring, front right
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
S1	Height sensor, front left
S2	Height sensor, front right
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 mm ²
	0.75 mm ²
	4.00 mm ²
	Air tube



VB-Airsuspension is one of the few European manufacturers producing a wide range of (air) suspension systems. From semi air suspension and simple reinforced coil springs to full air suspension systems: we offer customers the ideal solution for a range of applications such as ambulances, car transporters and motorhomes. Now you know why more and more body shops and commercial vehicle manufacturers are making VB-Airsuspension systems their benchmark.



Dealer:



www.vbairsuspension.com