



Technical Note 3920A

XBXX

Clio II Phase II

Basic manual: MR 345

Sub-sections concerned: 33A

Remove and refit procedure for rear axle shock absorber and spring with xenon bulb sensor

Development of the remove and refit procedure for rear axle shock absorber and spring.

77 11 336 102

DECEMBER 2004

EDITION ANGLAISE

"The repair procedures given by the Manufacturer in this document are based on the technical specifications current when it was prepared.

The methods may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which their vehicles are constructed."

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REAR AXLE Spring

33A

Equipment required

Component jack

Tightening torques



rubber bearing nut 125 Nm

shock absorber base mounting bolt 105 Nm

wheel bolts 105 Nm

During removal, note the colours of the shock absorbers and springs in order to ensure the conformity of the parts ordered for refitting.

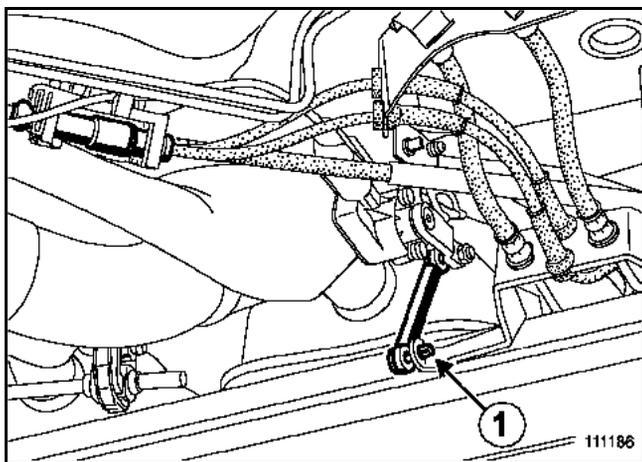
WARNING

Never support a vehicle on lifting equipment by the rear axle.

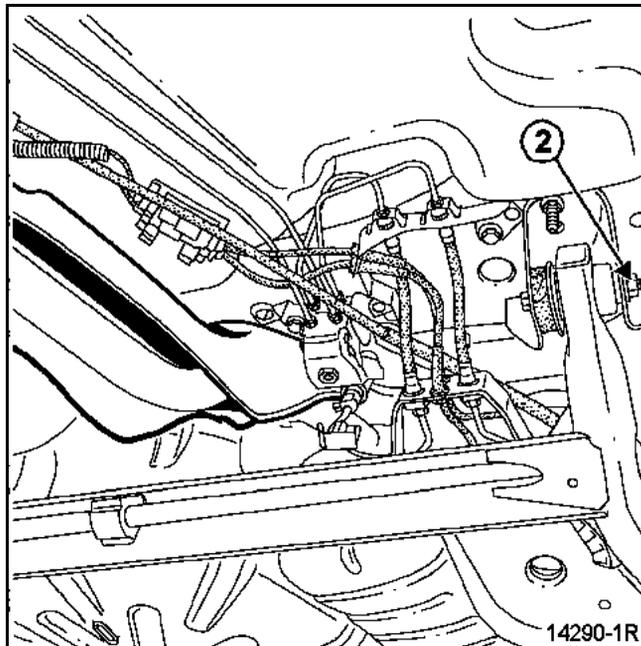
REMOVAL

Position the vehicle on a two-post lift (see **02A, Lifting, Underbody lift**).

Remove the two rear wheels if necessary.



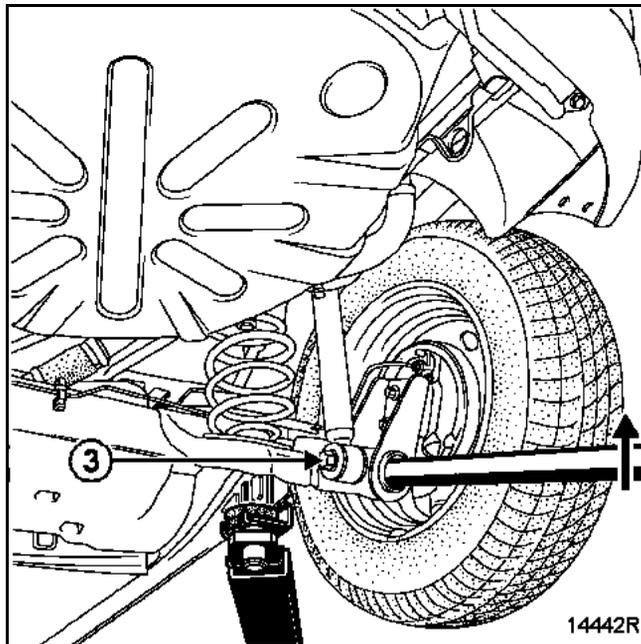
Unclip the xenon bulb position sensor tie-rod (1) if the vehicle is fitted with sensors.



Unscrew the rubber bearing nuts (2).

IMPORTANT

Do not remove the rubber bearing bolts.



Remove the lower bolt (3) of the right-hand shock absorber using a bar for leverage.

Note the position of the coloured spring marks for refitting.

Using a shim, bring the **component jack**, into contact with the underside of the rear axle near the shock absorber.

Remove the lower left-hand shock absorber bolt using a bar for leverage.

Lower the **component jack**.

Remove the springs.

Allow the rear axle to rest on the **component jack**.

REFITTING

Refit the springs in their housing.

IMPORTANT

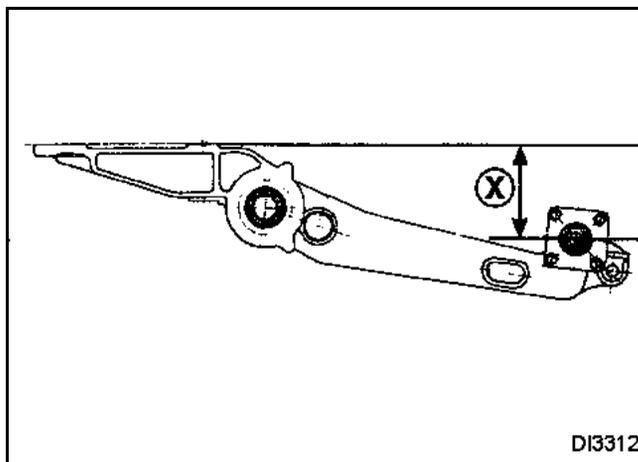
When refitting, it is essential to place the spring in its original position. It has a different coloured mark depending on the version.

Compress the rear axle assembly.

Refit the shock absorber lower mounting bolts.

WARNING

The shock absorber mountings are only to be tightened with the vehicle wheels on the ground.



Using a shim, bring the **component jack** into contact with the rear axle near the shock absorber to obtain a measurement of **56.5 mm** between centre of the rear hub and the rear side member.

Tighten to torque in position the **rubber bearing nuts (125 Nm)**.

Remove the **component jack**.

Refit the rear wheels if removed.

With the vehicle wheels on the ground, tighten to torque:

- the **shock absorber base mounting bolts (105 Nm)**,
- the **wheel mounting bolts (105 Nm)**.

Note:

If the vehicle is fitted with xenon lamps, it is essential to initialise the system (see **80C, xenon bulbs, xenon headlights: adjustment**).

REAR AXLE

Shock absorber

33A

Tightening torques



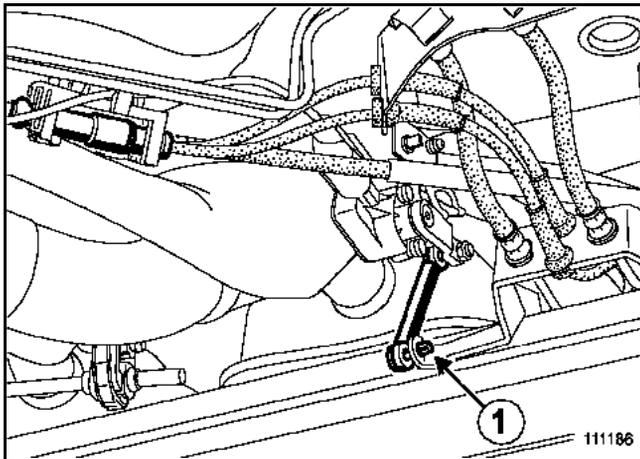
shock absorber upper nut	20 Nm
shock absorber base mounting bolt	105 Nm

WARNING

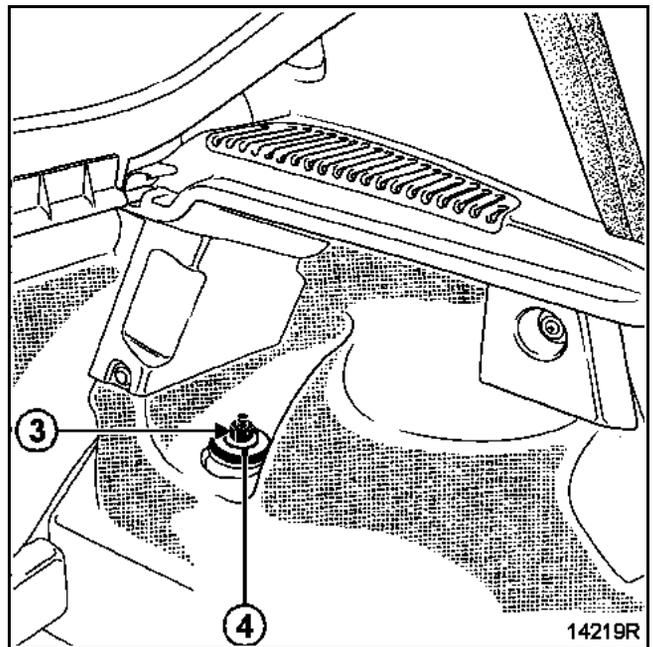
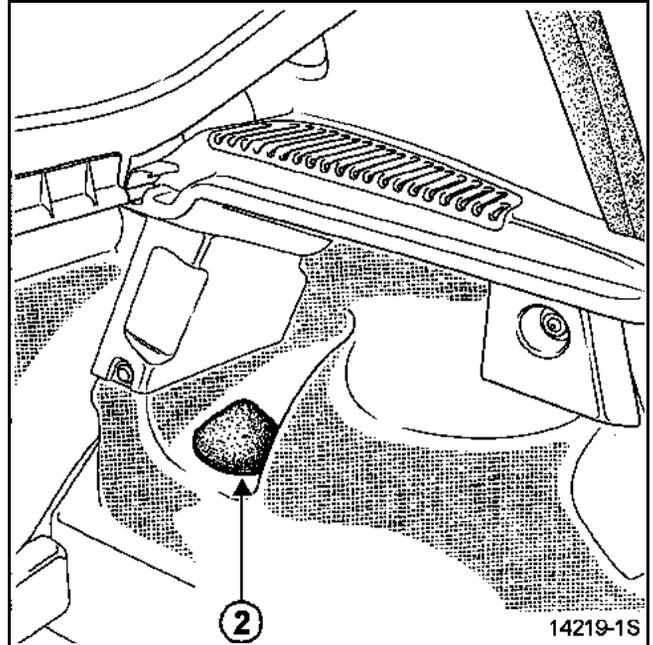
- Never support a vehicle on lifting equipment by the rear axle.
- When one shock absorber is replaced, the shock absorber on the opposite side must be replaced.

REMOVAL

Position the vehicle on a two-post lift (see **02A, Lifting, Underbody lift**).



Unclip the xenon bulb position sensor tie-rod (1) if the vehicle is fitted with sensors.

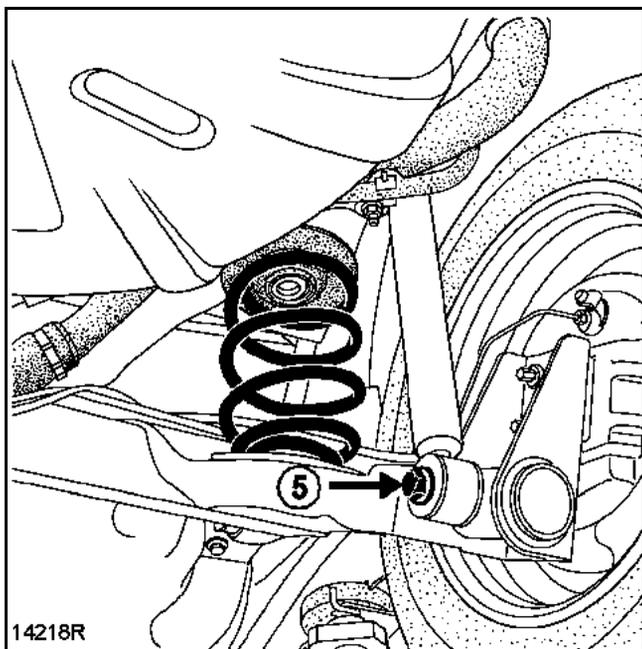


Remove:

- the right-hand shock absorber cap (2),
- the nut (3) and the rubber bush (4).

IMPORTANT

Do not remove the other side.



Remove the lower shock absorber bolt (5).

Remove the shock absorber.

REFITTING

Refit the shock absorber.

Pre-tighten the shock absorber lower bolt.

Lower the lift so that the shock absorber threaded rod passes through (wheels on the ground).

Pre-tighten the shock absorber upper nut.

WARNING

The shock absorber mountings are only to be tightened with the vehicle wheels on the ground.

Repeat the operation on the opposite side.

With the wheels on the ground, tighten to torque:

- the **shock absorber upper mounting nuts (20 Nm)** while holding the bolt head,
- the **shock absorber base mounting bolt (105 Nm)**.

Refit:

- the shock absorber caps,
- the xenon lamp position sensor tie-rod (if the vehicle is fitted with the sensor).

Note:

If the vehicle is fitted with xenon lamps, it is essential to initialise the system (see **80C, xenon bulbs, xenon headlights: adjustment**).

REAR AXLE

Rear axle assembly

33A

Equipment required

Pedal press

Component jack

Tightening torques



Axle assembly mounting nut **55 Nm**

rubber bearing nut **125 Nm**

pipe connections **17 Nm**

shock absorber base mounting bolt **105 Nm**

wheel bolts **105 Nm**

WARNING

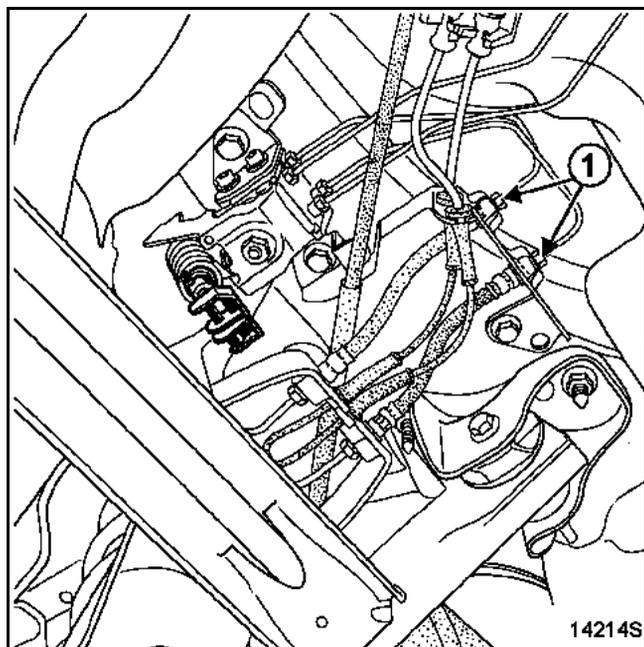
Never support a vehicle on lifting equipment by the rear axle.

REMOVAL

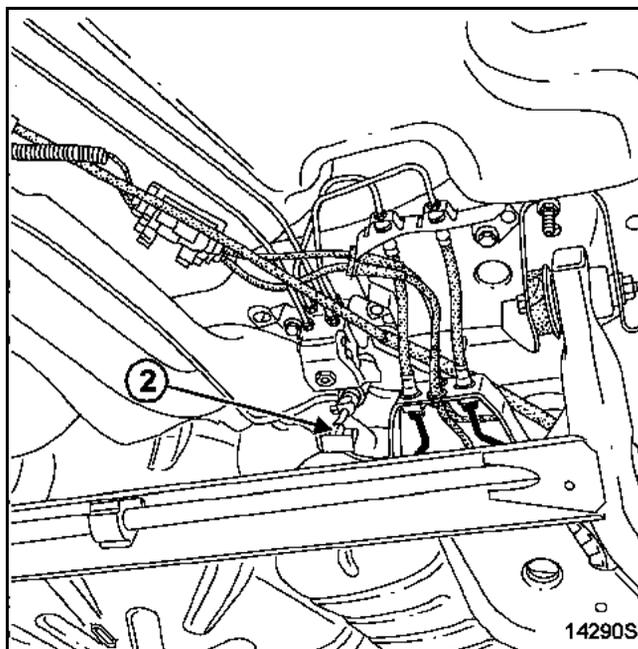
Position the vehicle on a two-post lift (see **02A, Lifting, Underbody lift**).

Remove the two rear wheels.

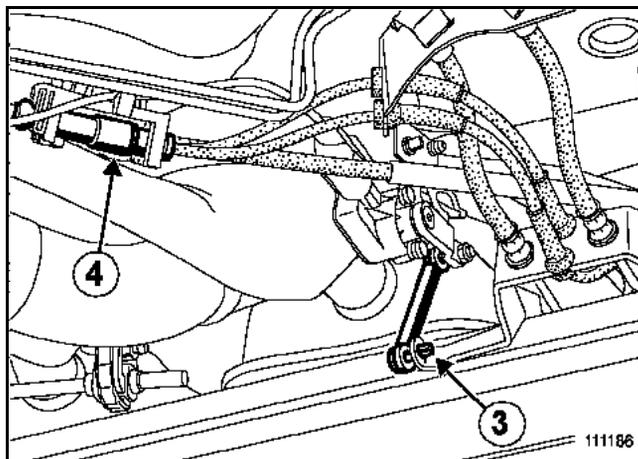
Fit a **pedal press** to limit brake fluid loss.



Disconnect the two brake fluid pipes (1).

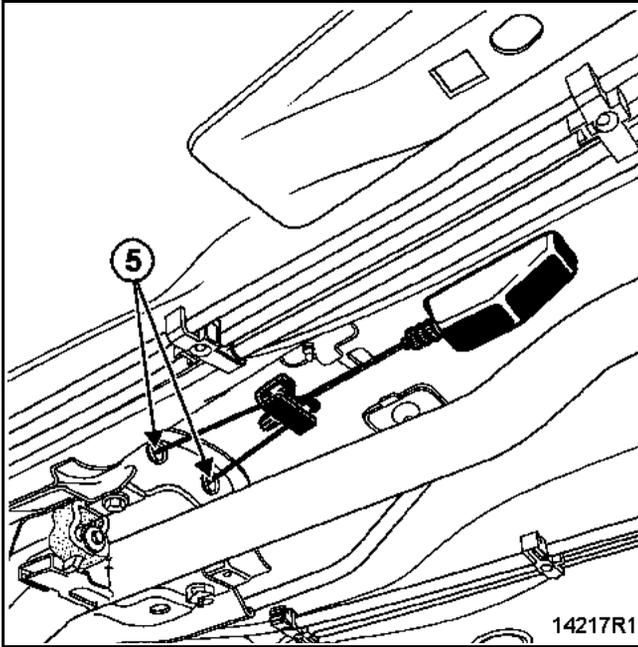


Remove the compensator rod (2) by removing the retaining clip on the rear axle (if the vehicle is fitted with it).



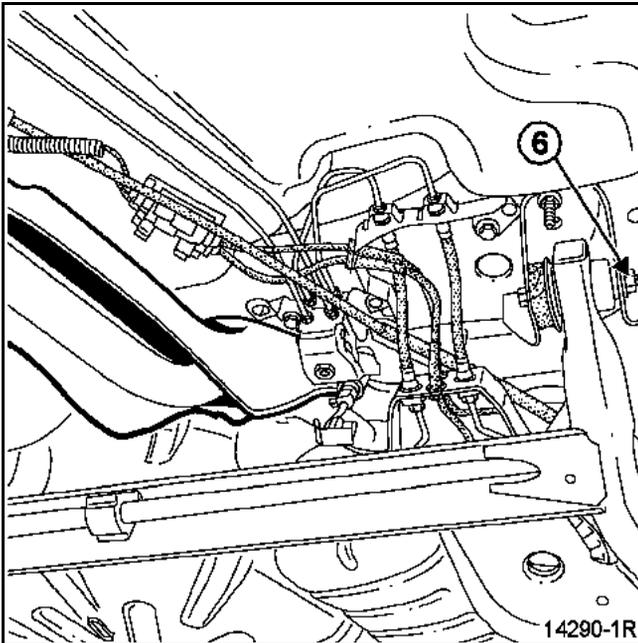
Unclip the xenon bulb position sensor tie rod (3) and disconnect the ABS sensors' wiring harnesses (4) (if the vehicle is fitted with ABS).

In the passenger compartment, slacken the handbrake cable (see **37A, Mechanical element controls, Handbrake lever**).



Remove the two rear heat shields.

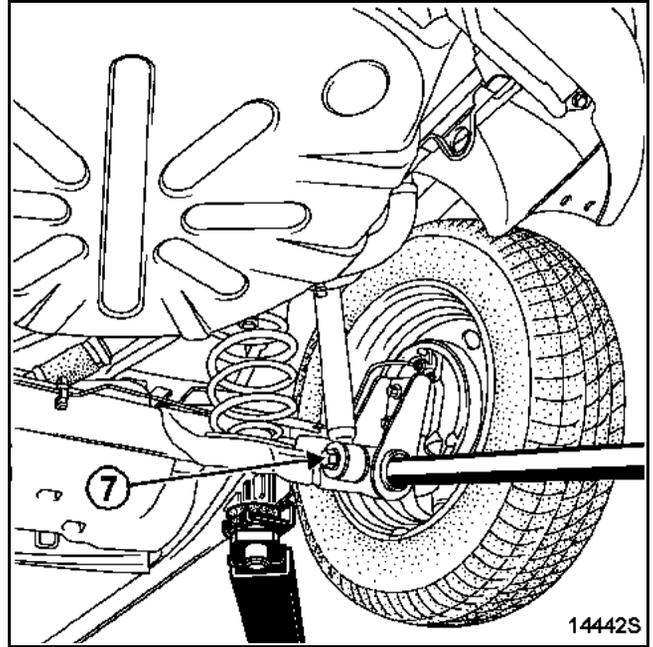
Detach the brake cables (5) from the chassis.



Loosen the rubber bearing nuts (6).

IMPORTANT

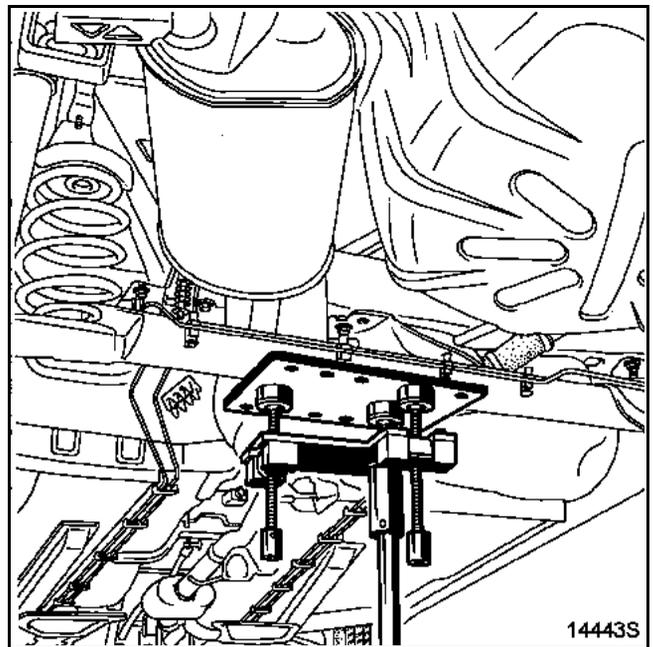
Do not remove the rubber bearing bolts.



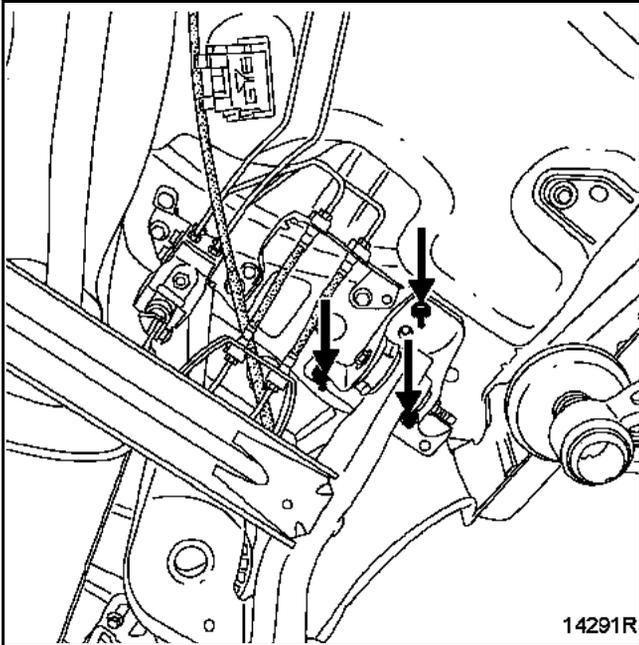
Remove:

- the shock absorber lower bolts (7) using a bar for leverage. This operation requires two people,
- the springs one by one (note the position of the coloured marks for refitting).

Tilt the rear axle until level.



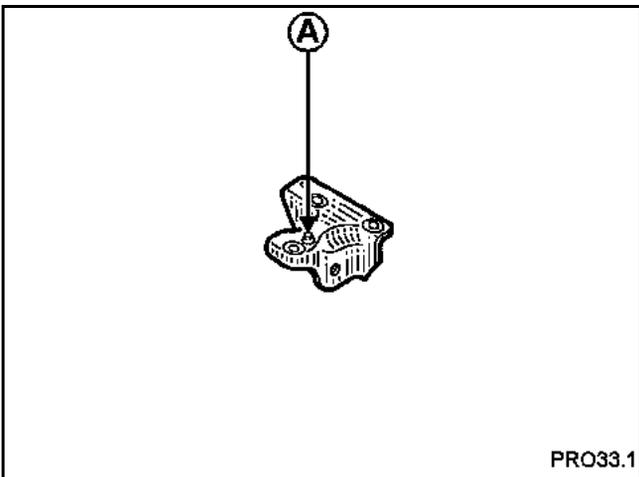
Position a **component jack** on the rear axle.



Remove:

- the rear axle bearing mounting nuts on the chassis,
- the axle while keeping it level on the **component jack**. This operation requires two people.

REFITTING



Position:

- the rear axle level on the component jack and turn the bearing mountings so that positioning pin (A) is at the top. This operation requires two people,
- the axle beneath the vehicle until the threaded rods pass through.

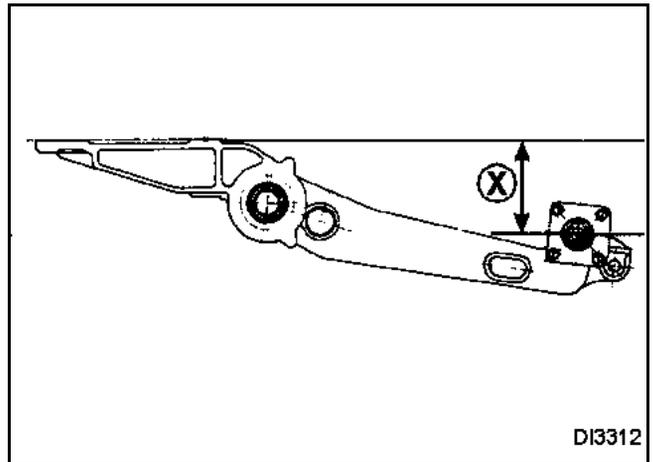
Tighten to torque the **axle mounting nuts (55 Nm)**.

Refit the springs.

IMPORTANT

When refitting, it is essential to place the spring in its initial position. It has a different coloured mark depending on the version.

Refit and pre-tighten the shock absorber lower mounting bolts.



Using a shim, bring the **component jack** into contact with the rear axle near the shock absorber, to obtain a measurement of **56.5 mm** between the centre of the rear hub and the rear side member.

Tighten to torque in position the **rubber bearing nuts (125 Nm)**.

Proceed in the reverse order to removal.

Tighten to torque:

- the **pipe connections (17 Nm)**,
- the **wheel mounting bolts (105 Nm)**.

With the wheels on the ground, tighten to torque the **shock absorber base mounting bolts (105 Nm)**.

Bleed the braking circuit (see **30A, General information, Bleeding the braking circuit**).

Note:
If the vehicle is fitted with xenon lamps, it is essential to initialise the system (see **80C, xenon lamps, xenon headlights: adjustment**).