



# Clio V6 Phase I

Type

CB1 C

S/Section

33A

## 33A REAR SUB-FRAME

- Engine: **XXX**
- Gearbox: **XXX**

**Basic manual:**  
Technical Note **3681A**

When replacing the rear sub-frame on CLIO V6 phase I, the Parts Department will supply a CLIO V6 phase II type replacement rear sub-frame.

This note details the rear sub-frame replacement procedure.

### Time allowed:

#### Clio phase I

3543: Grouped operation, Replacement of the rear sub-frame including rear axle geometry adjustment: 2h 50 mins.

#### Clio phase II

3591: Grouped operation, Replacement of the rear sub-frame including rear axle geometry adjustment: 2h 40 mins.

\*The repair methods 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 his vehicles are constructed.


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# REAR AXLE COMPONENTS

## Rear sub-frame

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Tightening torques		
Ø 12 engine tie-bar bolt	18 daNm	
Ø 10 engine tie-bar bolt	6 daNm	
sub-frame mounting bolt	9 daNm	
lower arm mounting bolt	21 daNm	
tie-rod mounting bolt	21 daNm	
lower ball joint mounting bolt	5.5 daNm	
relay bearing bolt	5 daNm	
rear wheel alignment tie-rod nut	6 daNm	
rear wheel alignment tie-rod bolt	15 daNm	
driveshaft nut	28 daNm	
wheel bolt	11 daNm	

### REMOVAL

Put the car on a two-post lift.

Release the handbrake.

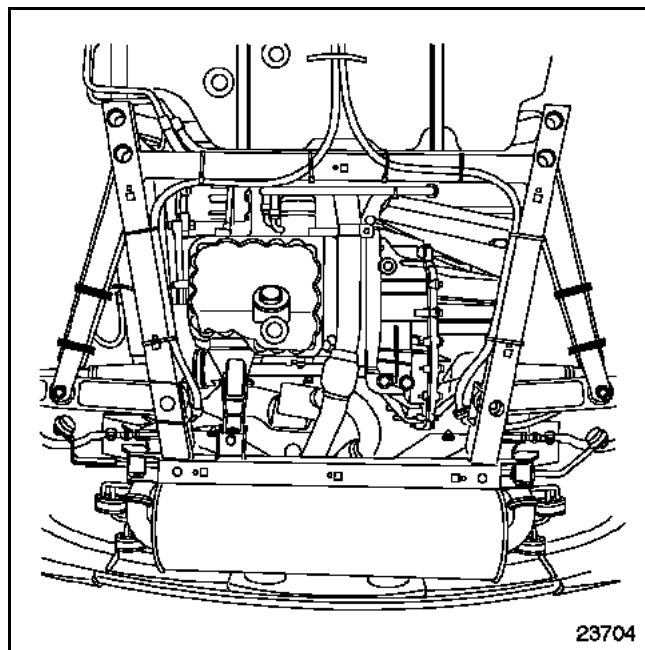
Remove the two rear wheels.

Undo the rear right-hand driveshaft nut.

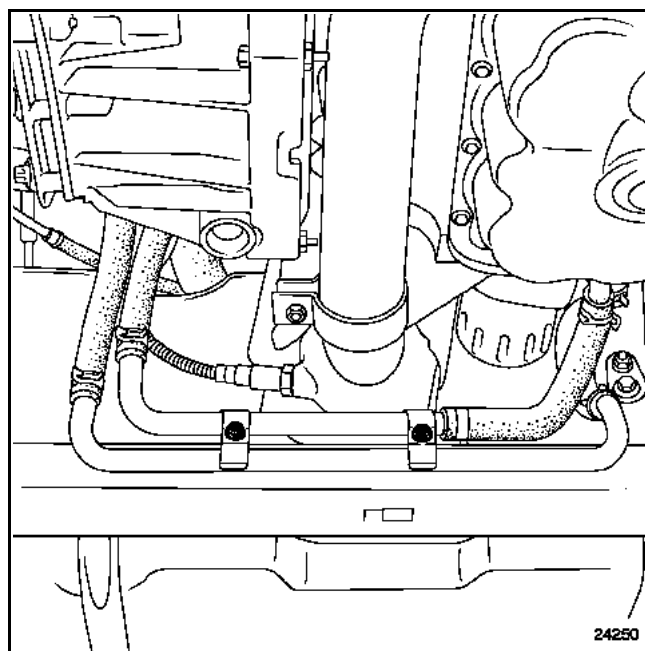
Disconnect the handbrake cables and unclip them from the sub-frame.

Disconnect both wheel alignment tie-rods.

Remove the engine undertray.



Cut the handbrake cable clips on the rear sub-frame, and release them from the sub-frame.



Remove both mounting bolts from the oil cooler pipes on the sub-frame.

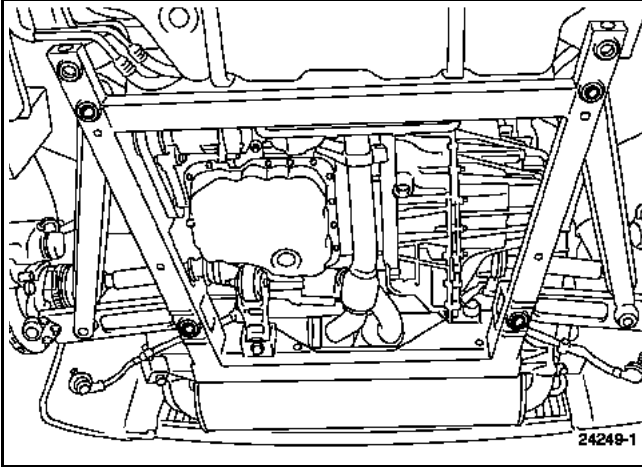
Remove the engine tie-bar.

Undo the lower arm mounting bolts on the sub-frame.

# REAR AXLE COMPONENTS

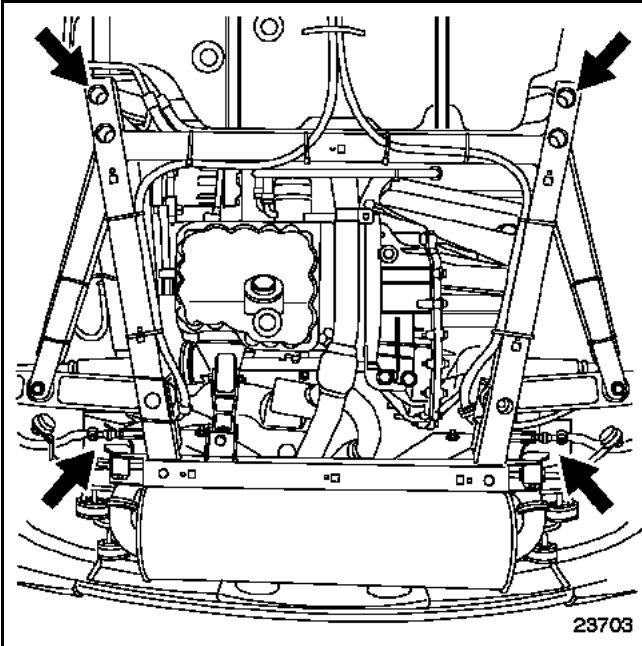
## Rear sub-frame

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Undo the tie rod bolt on the sub-frame.

Undo the three mounting studs of each lower ball joint.



Remove the four sub-frame mounting bolts.

Remove the rear sub-frame. This operation requires two people.

Remove the tie-rods from the old sub-frame.

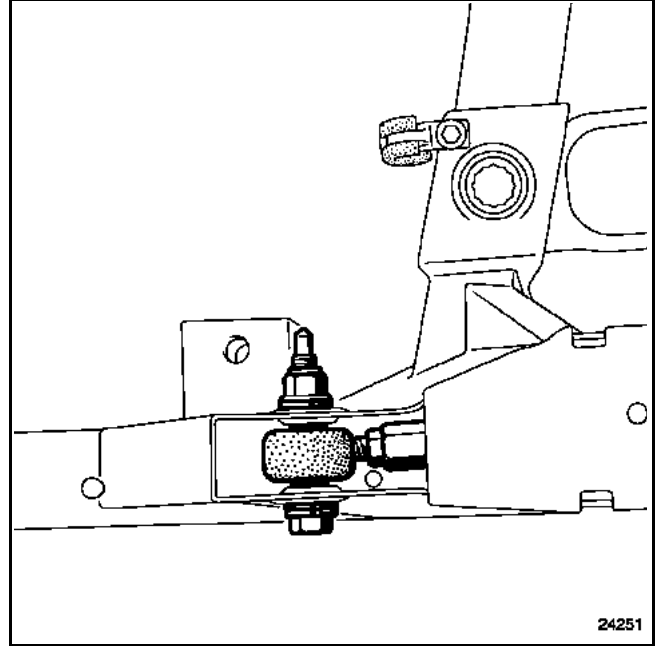
Recover both handbrake cable retaining clips and both front plugs from the sub-frame.

### REFITTING

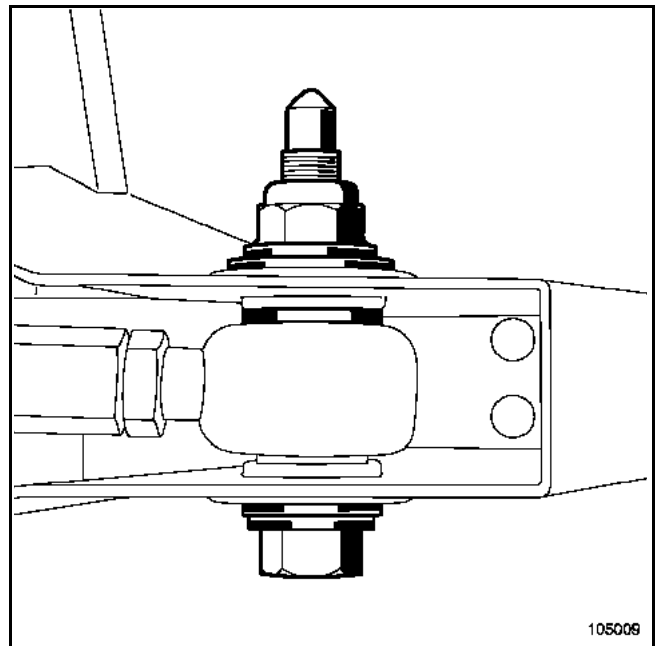
Refit both front plugs and handbrake cable clips to the sub-frame.

Refit the old right and left-hand tie-rods and the bolts but do not tighten to torque (tighten the bolts with the sub-frame in position on the vehicle).

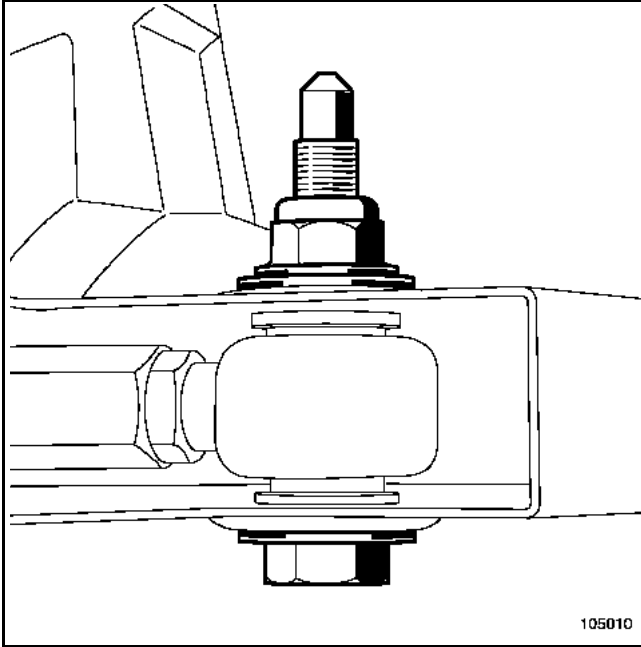
### 1<sup>st</sup> Assembly



### 2<sup>nd</sup> Assembly



### 3<sup>rd</sup> Assembly



Fit the wheel alignment tie-rods supplied in the kit to the sub-frame, taking care not to pinch the rubber fittings.

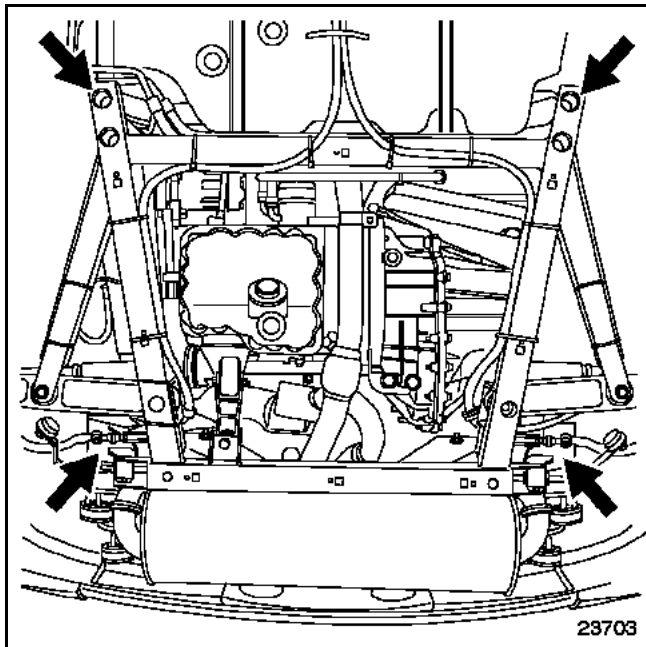
Tighten the **wheel alignment tie-rod bolts** to torque (**15 daNm**).

Refit the engine tie-bar to the sub-frame but do not tighten it.

Refit the driveshaft relay bearing.

Tighten the **relay bearing bolts** to torque (**5 daNm**).

Refit the rear right-hand driveshaft and its retaining bracket to the relay bearing.

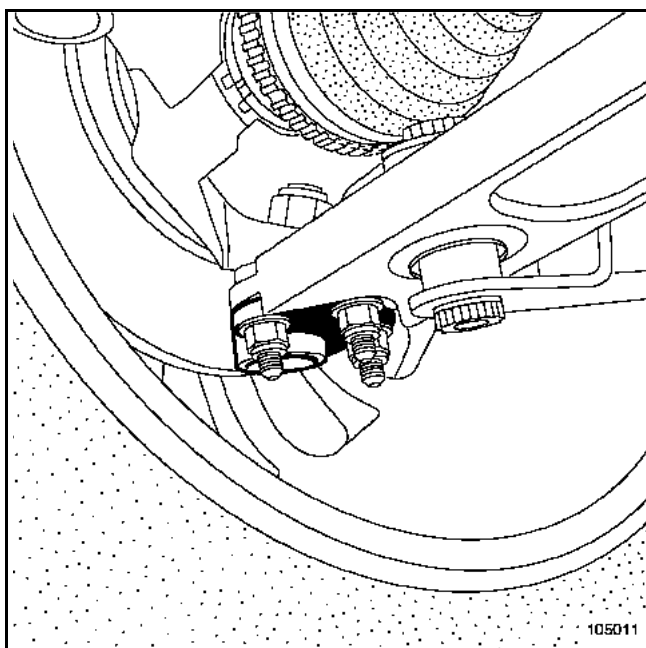


Refit the sub-frame to the vehicle. This operation requires two people.

Tighten the **sub-frame mounting bolts** to torque (**9 daNm**).

### Note:

When refitting the ball joints, they must pass underneath the tie-rods.



Tighten the **engine tie-bars** to torque:

- Ø 12 bolt (**18 daNm**),
- Ø 10 bolt (**6 daNm**).

Attach the oil cooling pipes.

Tighten to torque:

- the **tie-rod bolts** (**21 daNm**),
- the **lower arm mounting bolts** (**21 daNm**),
- the **lower ball joint mounting bolts** (**5.5 daNm**),
- the **two rear wheel alignment tie-rod bolts** (**6 daNm**).

Attach the handbrake cables with the specified cables.

Refit the engine undertray.

Tighten to torque:

- the **two rear wheel alignment tie-rod bolts** (**6 daNm**).
- the **driveshaft nut** (**28 daNm**).

Refit the wheels and tighten to torque (**11 daNm**).

Tighten the **wheel bolts** to torque (**11 daNm**).

Check the handbrake and adjust if necessary.

Check and adjust the rear wheel alignment and camber (use the geometry values in Technical Note **3681A**).

## TYRES

### Note:

The tyre pressures, when cold, should be:

Clio V6 Phase I	front pressure	<b>1.6 bar</b>
	rear pressure	<b>2.1 bar</b>
Clio V6 Phase II	front pressure	<b>2 bar</b>
	rear pressure	<b>2.1 bar</b>