



KANGOO
CLIO II

Type	S/Section
XC0 X	31
XB0 X	31

31 STANDARDISATION OF SUB-FRAMES

- Engine: XXX
- Gearbox: XXX

Basic manuals:
Workshop Repair Manuals 325 and 337

This Technical Note deals with the replacement of a KANGOO or CLIO II engine sub-frame with new standardised sub-frames.

"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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FRONT AXLE ELEMENTS

Engine sub-frame

31

SPECIAL TOOLING REQUIRED

Mot. 1040-01 Dummy sub-frame for removing and refitting engine and transmission assembly

TIGHTENING TORQUES (in daN.m)



Wheel bolts	10.5
Track rod end nut	3.5
Universal joint eccentric bolt	2.5
Sub-frame mounting bolt	front \varnothing 10 6
	rear \varnothing 12 10.5
Sub-frame side member tie rod nut	3
Key nut on stub axle carrier	5.5
Engine tie-bar	6.5
Steering box mounting bolts	5

REMOVAL

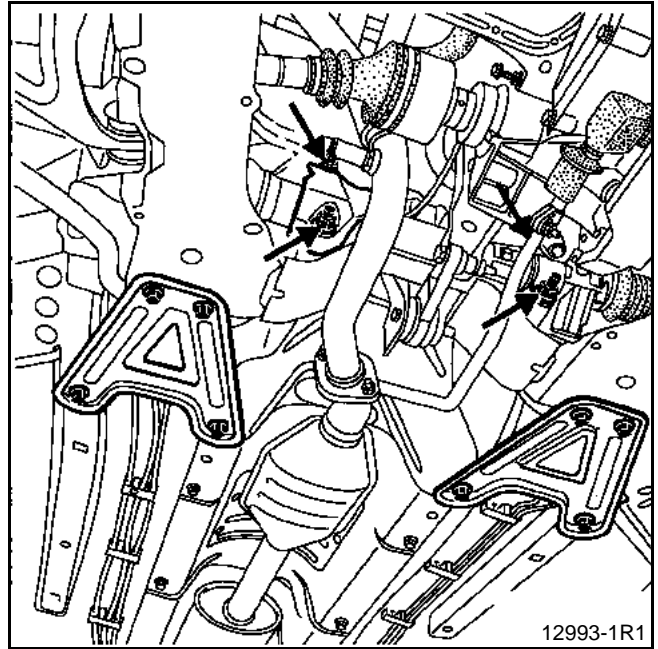
Disconnect the battery.

Put the vehicle on a two post lift.

Remove:

- the wheels,
- the engine undertray,
- the key on the stub axle carrier,
- the right-hand sub-frame side member tie rod,
- the two left-hand sub-frame side member tie rods,
- the exhaust downpipe and attach the catalytic converter,
- the bolt (engine side) for the engine tie bar,
- the gear control,

- the two nuts on the steering box heat shield, if necessary,
- the steering box mounting nuts,
- the eight bolts on the two rear tie rods,



- the two acoustic tie rods (if fitted),
- the anti-roll bar,
- the ABS connector,
- the bolts securing the bumper to the sub-frame.

Fit tool **Mot. 1040-01** under the engine sub-frame.

Lower the lift until the tool touches the ground.

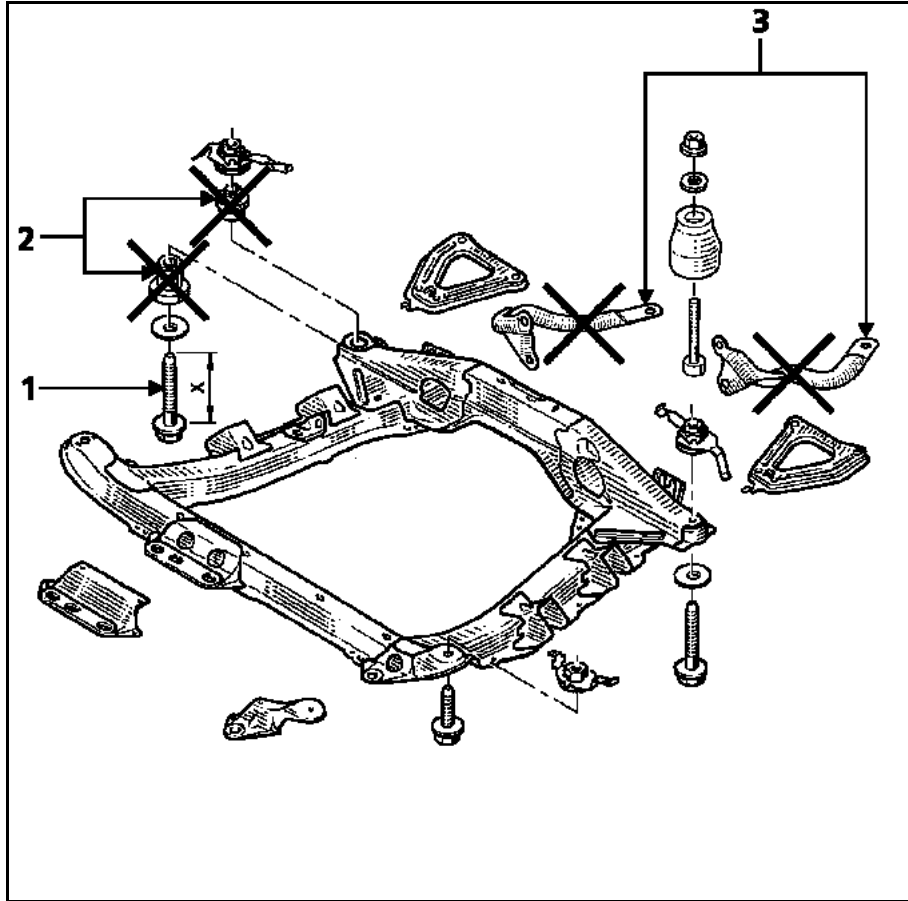
Remove the sub-frame mounting bolts.

Carefully raise the lift.

Remove the following from the sub-frame:

- the lower wishbones,
- the acoustic earth.

Remove the sub-frame using tool **Mot. 1040-01**.



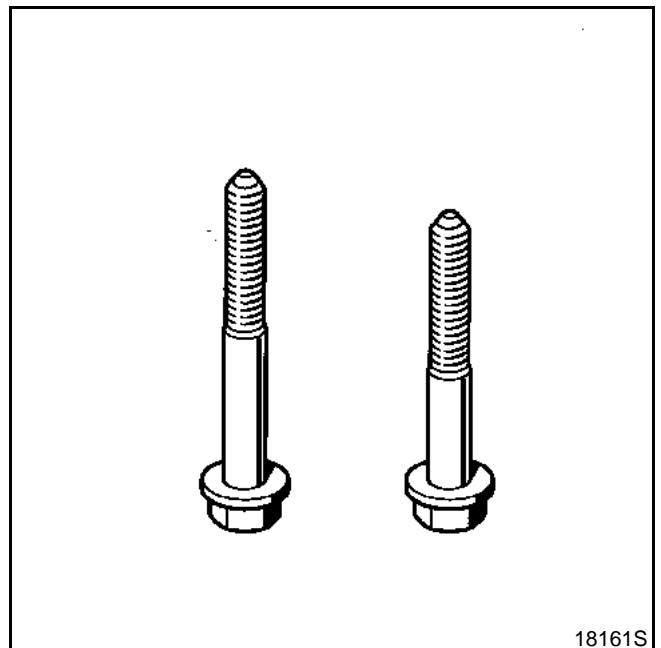
X = 80 mm

REPLACEMENT

Always replace the engine sub-frame mounting bolts and ensure they are tightened to the correct torque.

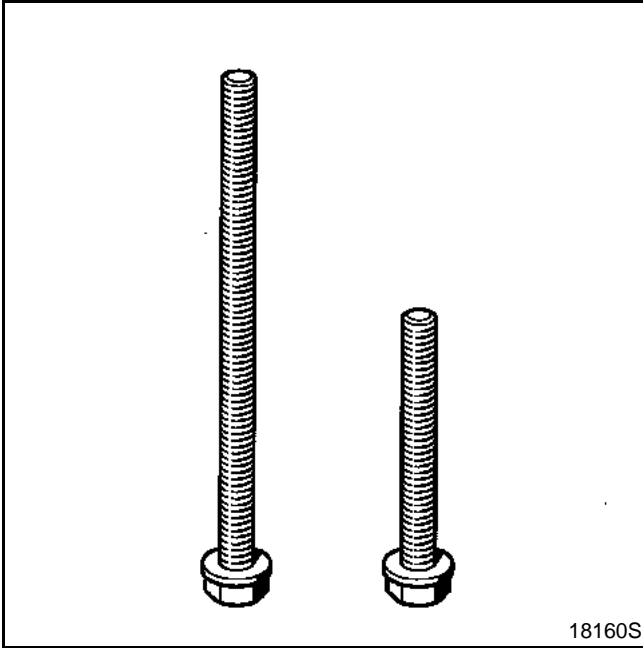
WARNING: some parts **must be replaced or removed** when the sub-frame is replaced with the new sub-frame (**Part no.: 82 00 036 128**).

Mounting bolt (1) on the right-hand rear sub-frame should be replaced by bolt (**Part no.: 77 03 602 078**). The centring bushings (2) **must not be refitted**.



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The lower mounting bolts on the steering rack must be replaced by bolts (**Part no.: 77 03 101 410**). These are shorter to accommodate the modification made to the sub-frame. If the vehicle is fitted with acoustic tie rods (3), these **must not be refitted**.



REFITTING

Proceed in the reverse order to removal.

NOTE: the engine sub-frame is fitted to the body in the following manner:

- fit two pins in place of the front mounting bolts,
- offer up the sub-frame,
- tighten, but do not lock, the rear mounting bolts (begin with the longest rear right hand bolt),
- replace the pins with mounting bolts at the front,
- tighten the four mounting bolts to the correct torque, beginning at the rear.