

hand to the tank.



Next use the tool Universal spanner for removing fuel gauge nuts. (Mot. 1397) , tighten nut (3) until the mark (5) of the nut is opposite the mark (6) of the tank.

2. FINAL OPERATION



Proceed in the reverse order to removal.



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FUEL PIPES: REPAIR



Note, one or more warnings are present in this procedure



Special tooling required

Pliers for disconnecting fuel snap-fit connections, diameter 8 mm (Legris et Raymond).	
Pipe-cutter, semi-rigid fuel pipes.	
Pliers for disconnecting fuel snap-fit connections, diameter 10 mm (Legris et Raymond).	



WARNING



Before carrying out any operation on a vehicle fitted with the Stop & Start system, always follow the safety instructions [Vehicle: Precautions for the repair](#)



WARNING



During this operation, be sure to:



refrain from smoking or bringing red hot objects close to the working area,

be careful of fuel splashes when disconnecting the union.



WARNING

Wear goggles with side protectors for this operation.



WARNING

Wear leaktight gloves (nitrile type) for this operation.



CAUTION

To prevent impurities from entering the circuit, place protective plugs on all fuel circuit components exposed to the open air.



CAUTION

To avoid any corrosion or damage, protect the areas on which fuel is likely to run.

1. PRESENTATION



It is possible to replace parts of the plastic pipes for petrol (fuel supply pipe going from the tank to the injection rail) and diesel fuel (supply pipe going from the tank to the fuel filter) without replacing them completely, the tools and parts required are:

- : Pliers for disconnecting fuel snap-fit connections, diameter 8 mm (Legris et Raymond). pliers to disconnect the quick release unions of the fuel pipe diameter **8 mm**(Legris and Raymond),

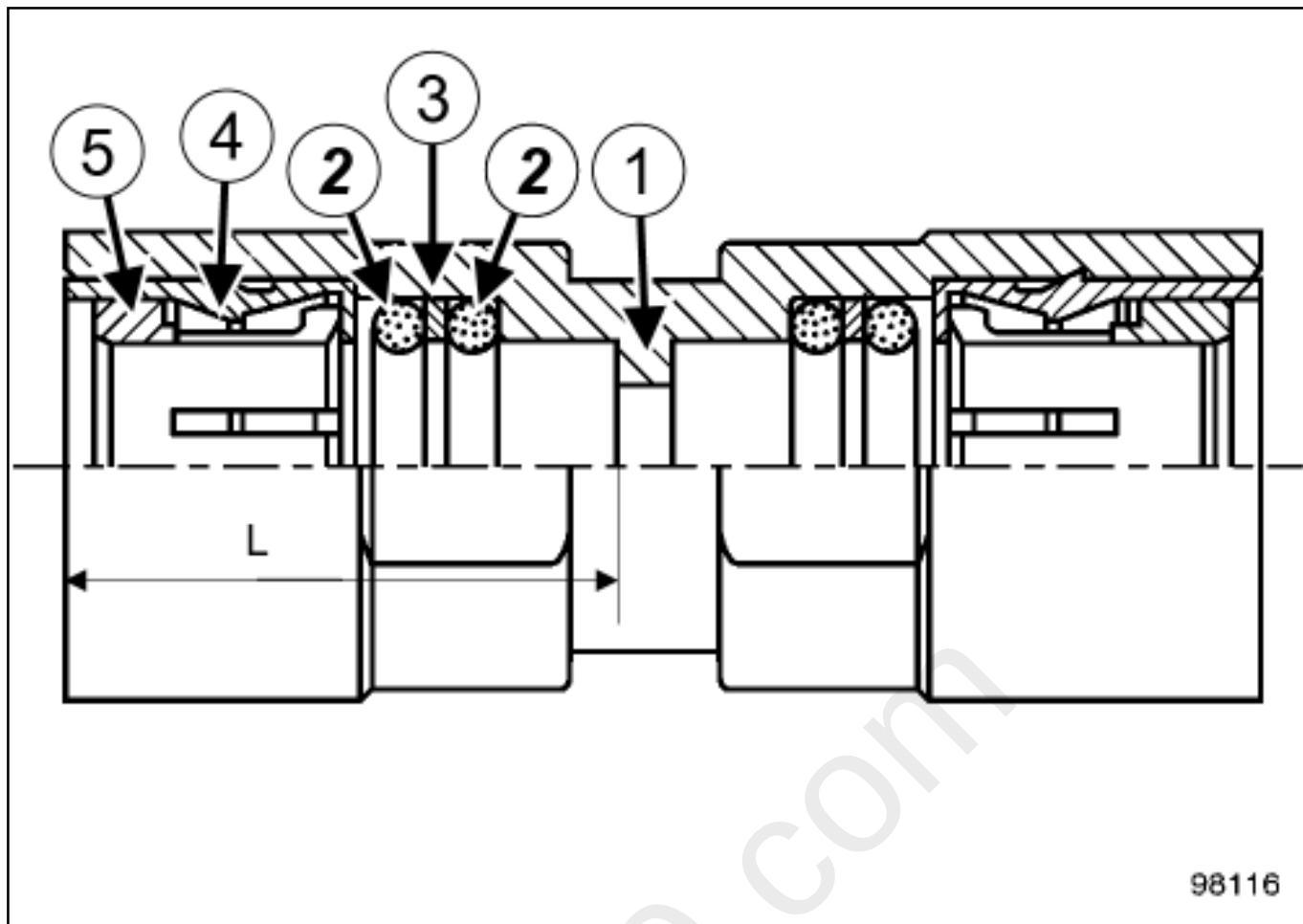
- : Pliers for disconnecting fuel snap-fit connections, diameter 10 mm (Legris et Raymond). pliers to disconnect the quick release unions of the fuel pipe diameter **10 mm**(Legris and Raymond),

- : Pipe-cutter, semi-rigid fuel pipes. tube cutter, semi-rigid fuel pipes,

- double union sold as a spare part diameter **8 mm** or **10 mm**,

- tube with length **1.5 m** and angled at **90°**, diameter **8 mm** or **10 mm**,

the complete piping of the vehicle that will have to be cut according to requirements.



(1) : Body

(2) : O-rings x2

(3) : Washer

(4) : Dowel

(5) : Clip

(L) : Length of insertion (L = 18.5 mm)

2. REPLACING PART OF THE PIPE

1- PIPE CUTTING

1) PREPARATION BEFORE CUTTING:

Carry out the repairs cold, after the engine has been stopped for an hour.

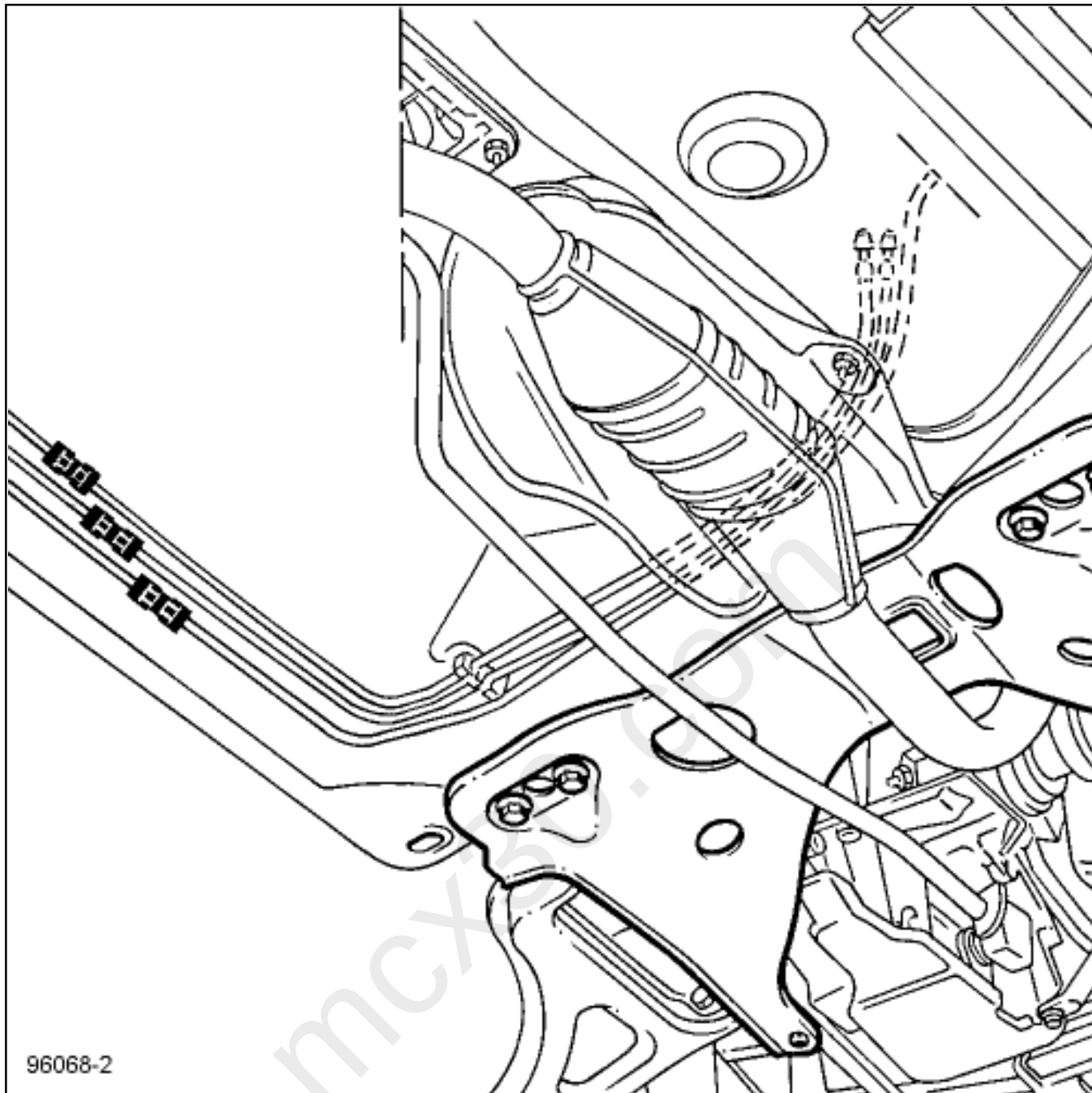
Disconnect the battery(see **Battery: Removal - Refitting**) (80A, Battery).

Measure the fuel pipe diameter for selecting the correct diameter for the parts and tools.

If the cutting is done under body, to avoid siphoning the tank, for diesel pipes in particular, either they should be disconnected at the gauge module level or the oil in the tank should be emptied.

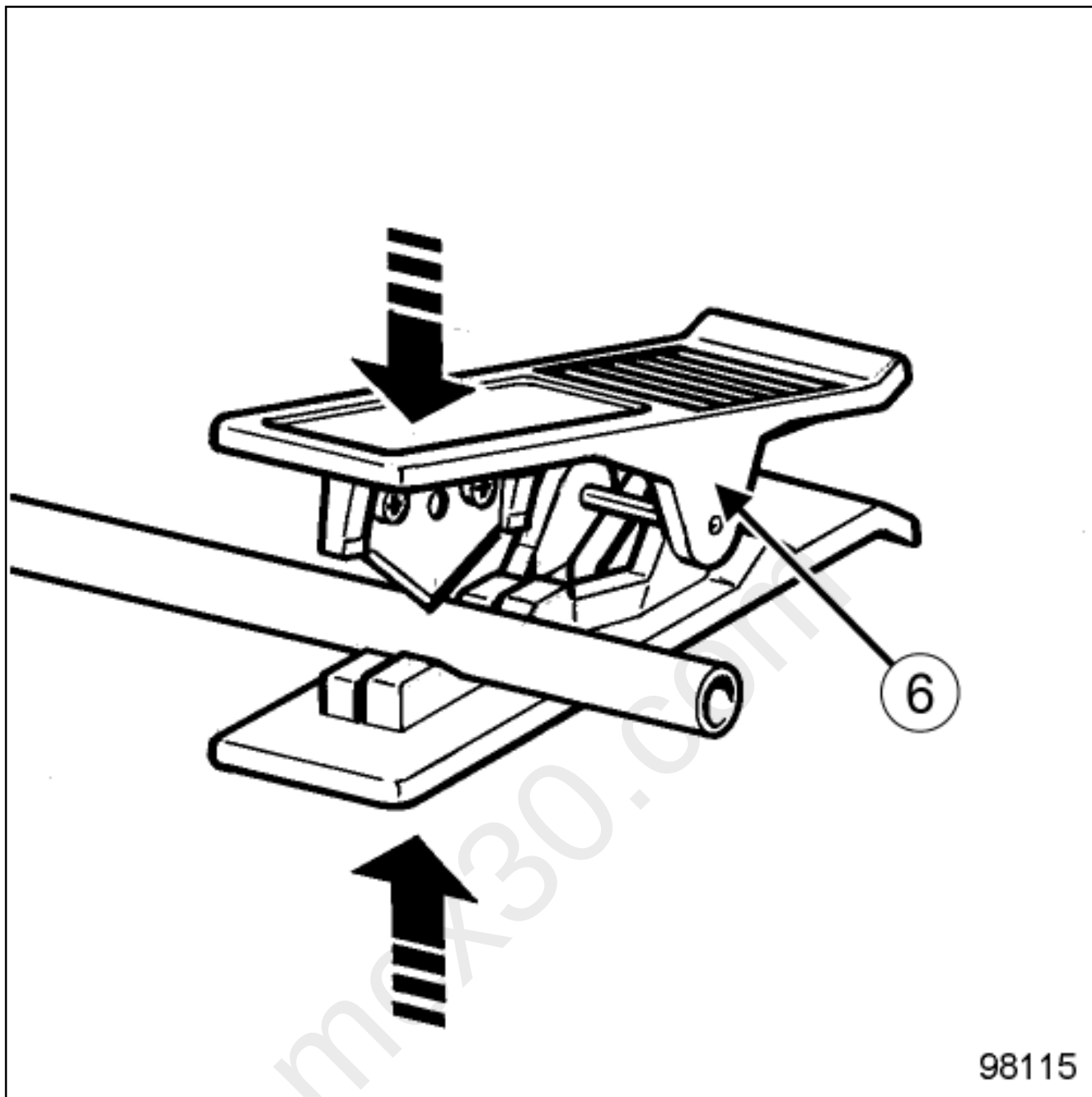
The cut will determine the location of the union. The following rules should therefore be complied with in order to determine the location of the cut:

- the unions must always be in a straight line,
- only cut the pipes in straight lines,
- do not install unions within **50 cm** of the catalytic converter, above very hot zones or electrical connections, on pipes in clearance between engine and body, in the zone between the engine and the catalytic converter.



When installing the unions on parallel piping, make sure to cut off-set so that the unions are positioned off-set.

2)CUTTING OPERATION FOR THE PIPE TO BE REPLACED



In order to avoid damaging the two union O-rings and to provide a perfect seal when fitting, perform the cutting operation using toolPipe-cutter, semi-rigid fuel pipes.(6) .

2- NEW PIPE CUTTING

If the part to be replaced does not have any specific union and has a straight path, you can use the tube of length 1.5 msold as a spare part. If the path is complex, use the standard pipe and cut it

according to the part to be replaced.

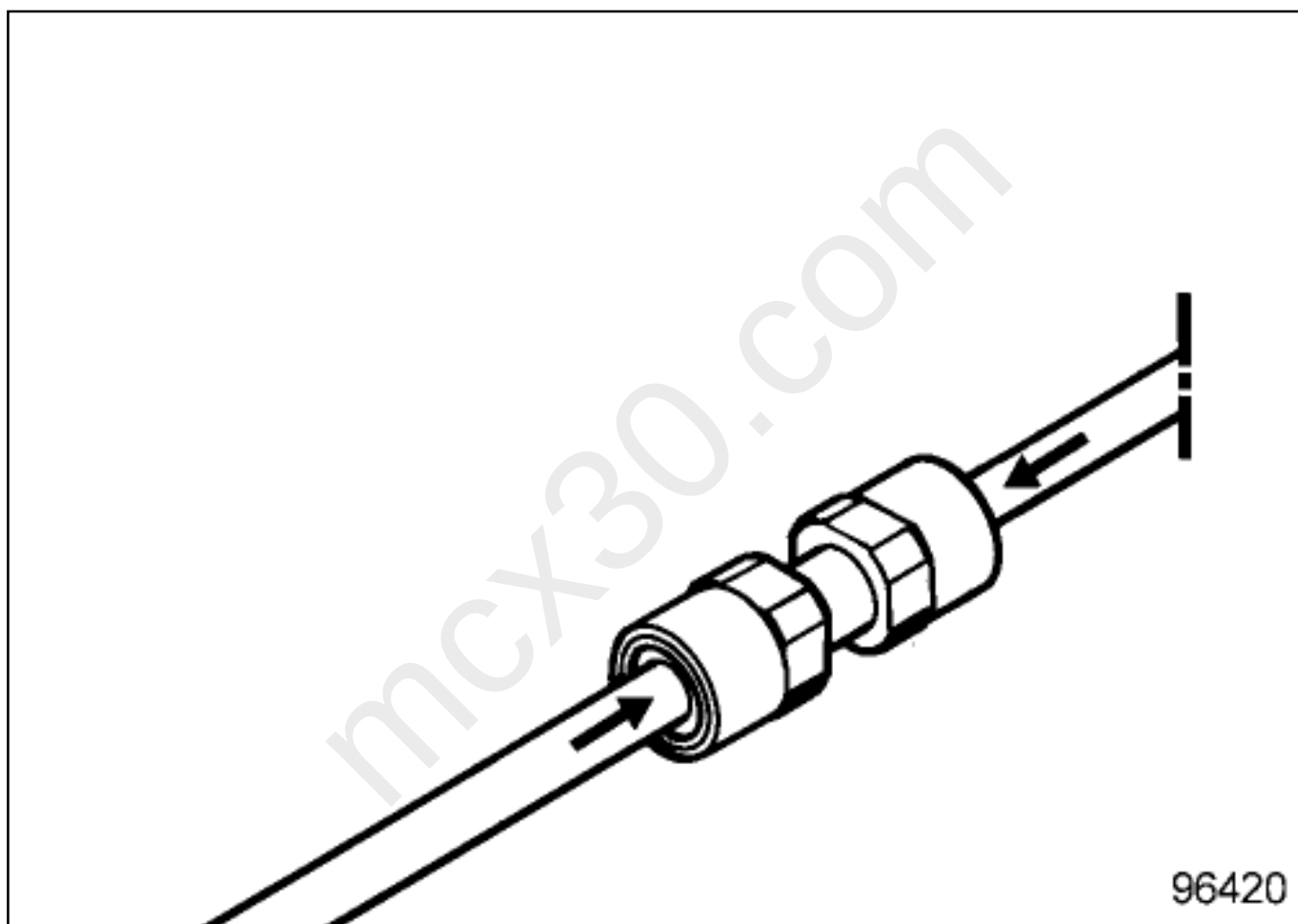


For a correct cut, place the pipe that you wish to replace onto the new pipe and mark the cut location.



Cut the pipe using toolPipe-cutter, semi-rigid fuel pipes. .

3- FITTING THE UNION



Fit directly on the corresponding piping and press the piping down well.



Connect the battery(see **Battery: Removal - Refitting**) (80A, Battery).



After every union installation, check the seal:



for pressure pipes (petrol supply), run the engine and observe for **5 min.** to check that there are no drips around the repaired connections.

for vacuum pipes (Diesel supply), run the engine and observe for **5 min** to check that no air bubbles appear at the high pressure pump outlet, through the transparent pipes.

3. REMOVAL OF THE UNIONS

Carry out the repairs cold, after the engine has been stopped for an hour.

Disconnect the battery (see **Battery: Removal - Refitting**) (80A, Battery).

If the cutting is done under body, to avoid siphoning the tank, for fuel pipes in particular, either they should be disconnected at the gauge module level or the oil in the tank should be emptied.