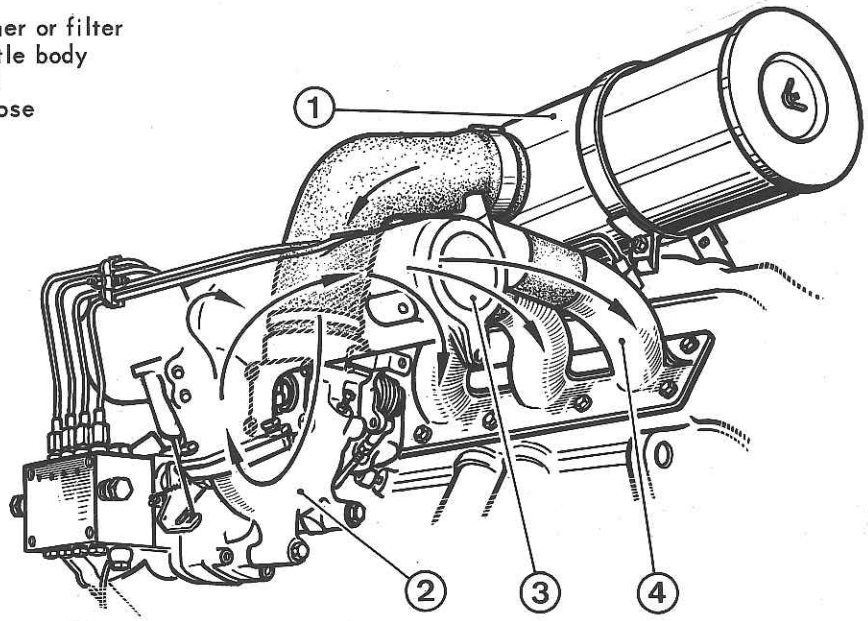
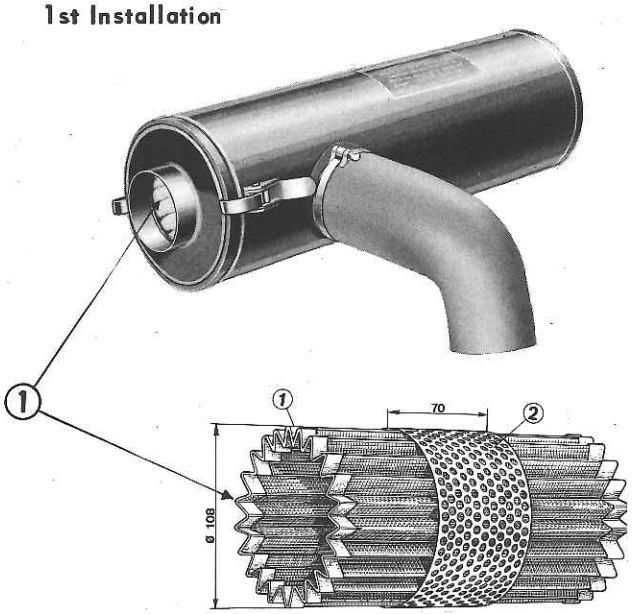
SUMMARY

The air sucked in from an area away from the radiator surface, passes successively through :

1 - The air cleaner or filter
2 - The air throttle body
3 - The manifold
4 - The intake hose



1st Installation



AIR CLEANER
- Make : Lautrette
- Type : L 965

Filter cartridge type EL. L. 965
to clean every 5,000 km (3,000 miles)
to exchange every 20,000 km (12,000 miles)

Precautions :

. After each reinstallation, make sure that the outer diameter 1 of the cartridge is about 108 mm. Should the cartridge touch the cleaner body, this may result in poor performance or high petrol consumption.

As from November 1964 the filtering element of a diameter of 108 mm is held in position by means of a perforated sleeve 2 of a length of 70 mm.

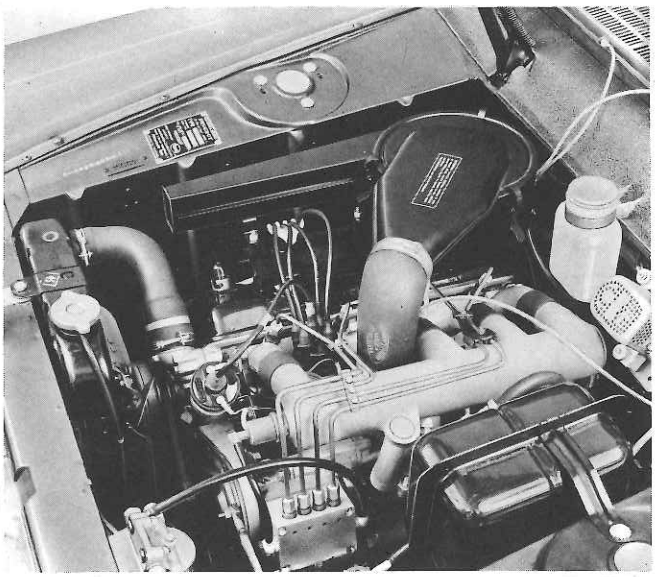
2nd Installation (as from august 1967)

AIR CLEANER
- Make : Lautrette
- Type : L 1276

Filter cartridge type EL. 1276
to clean every 5,000 km (3,000 miles)
to exchange every 20,000 km (12,000 miles)

INTERCHANGEABILITY

The complete air filter of the 2nd installation can be fitted to replace that of the 1st installation however the parts of the different installations are not separately interchangeable.

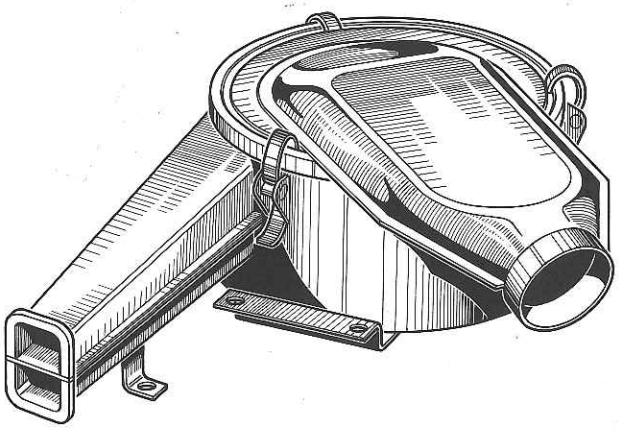


AIR CLEANER

As from serial numbers :

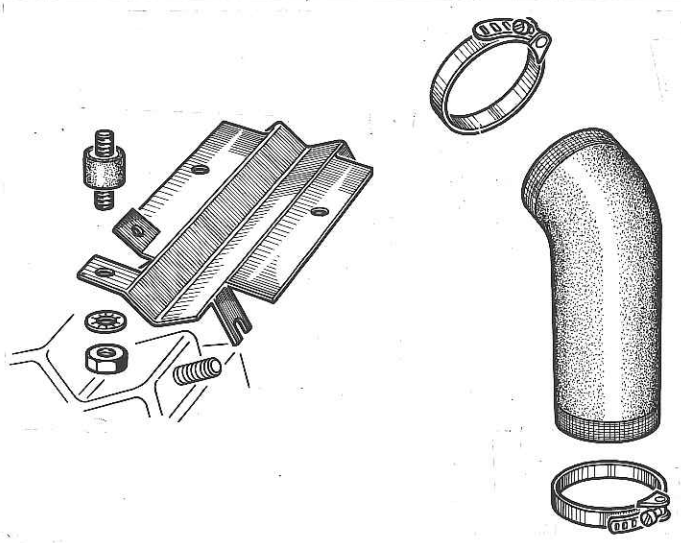
404 KF - 4 574 601
404 C.KF - 4 595 250 approx

An oil bath air cleaner is fitted as an optional extra on 404's injection engine, Export models.



This filter can be fitted on cars which do not have it on condition that the following parts are used :

	P.N.
1 air cleaner	1420.25
1 air cleaner bracket	1437.21
3 elastic studs	1439.04
1 air cleaner to throttle body elbow	1423.23
1 collar	6982.09
1 collar	6982.08

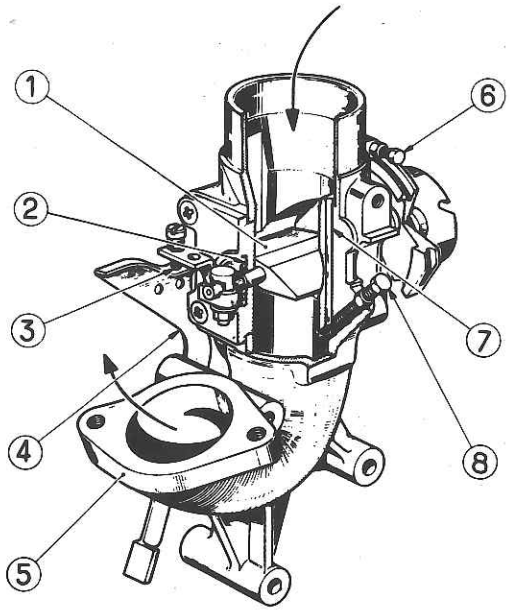


Maintenance

Every 5,000 km (3,000 miles)

Clean filtering element by imersion in diesel oil.

Replace oil and top up to the level of the bottom of the bowl.



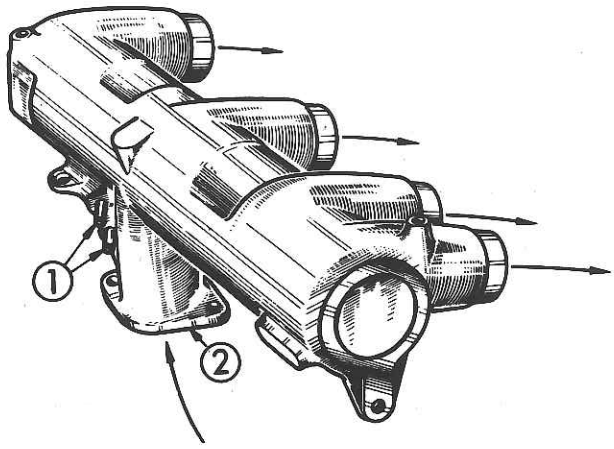
Air throttle body

- Attached at the rear of the injection pump guided by three Mecanindus pins.

- The air throttle, the body and the side flanges are paired together.

Composition

1 - Air throttle
2 - Air tight ball bearing
3 - Minimum opening control screw
4 - Accelerated idling speed lever
5 - Flange fixation to manifold
6 - Maximum opening control screw
7 - Idling speed air passage
8 - Idling speed adjustment screw.

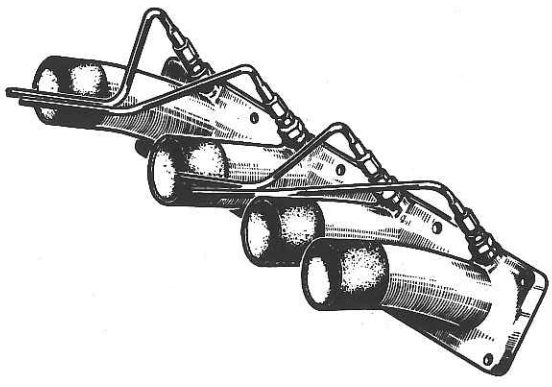


MANIFOLD

- Connected by four rubber hoses to the intake hoses through a flange to the air throttle body. Check periodically these connections for air leakages.

1 - Water connection to the hot spot containing the thermo-plug which in turn controls the accelerated idle running lever.

2 - Fixation flange.

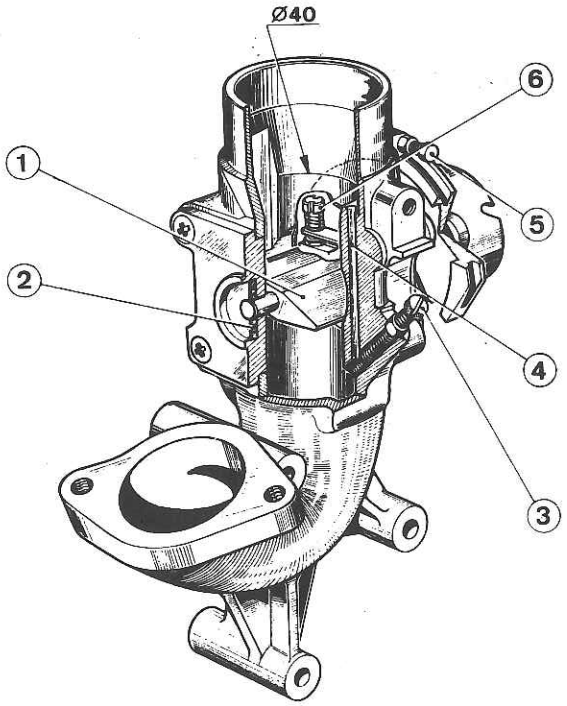


INTAKE HOSE

- Check periodically the tightness of the intake hoses fixation and injectors in order to suppress any possible air leakage.

XC.KF 2

INTAKE SYSTEM



Starting from serial nos :

404 KF - 4.570.001
404 C.KF - 4.594.001

AIR THROTTLE BODY

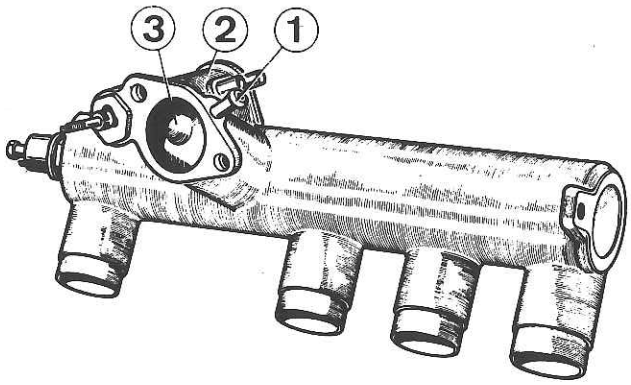
The air throttle body incorporates air intake sections enlarged at diameter 40 mm instead of 33 mm.

Composition :

1 - Air valve
2 - Air tight ball bearing
3 - Idle speed adjustment screw
4 - Idle running line
5 - Maximum opening control screw
6 - Minimum opening control screw

When the idle running is not easier to adjust :

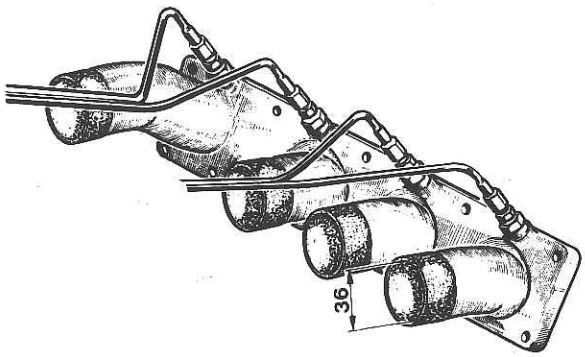
- Remove the screw 3, clean the by-pass chanel with a tube-brush as well as the side-flanges.



MANIFOLD

It includes :

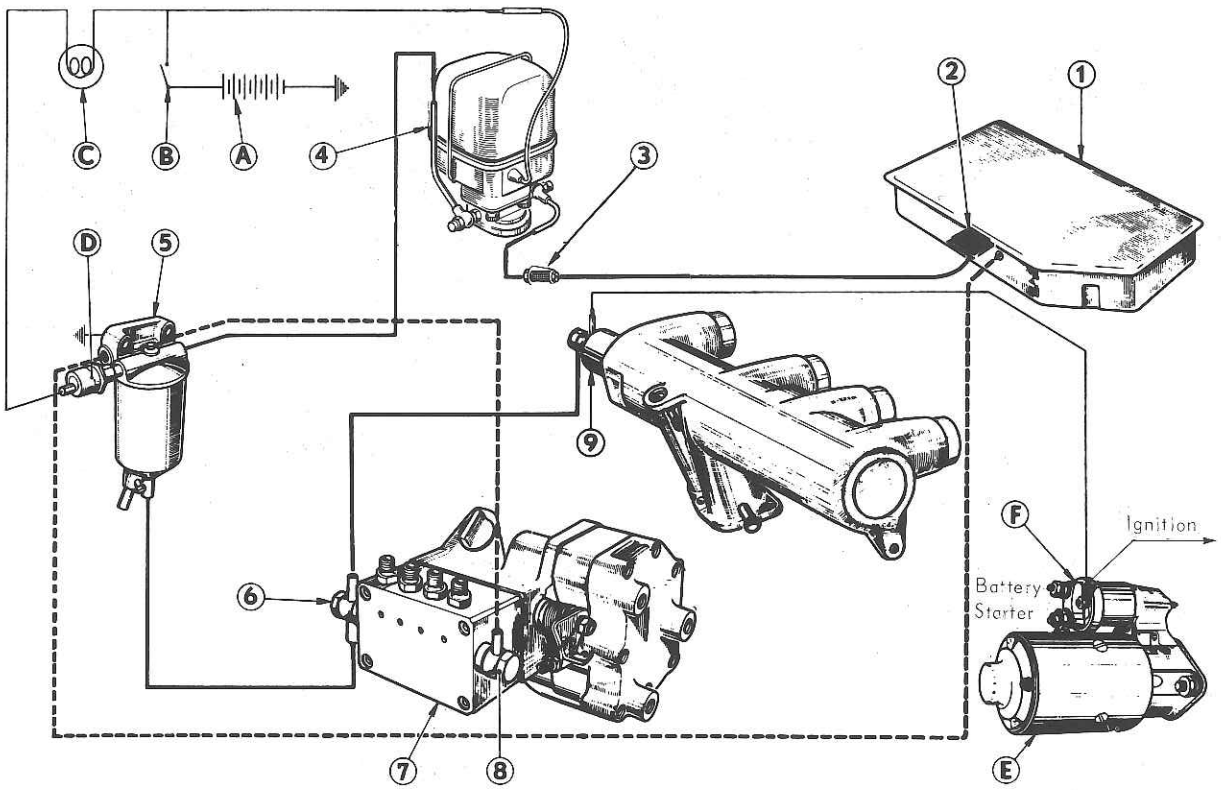
- a vacuum union 1 for the assisted breakes
- a location 2 for the large diameter thermo plug.
- An air passage 3 for the warning period.



AIR INTAKE DUCT

The union inner diameter is 36 mm as for the manifold

Check periodically the tightness of the air intake duct and the injectors in order to support any possible air leakage.



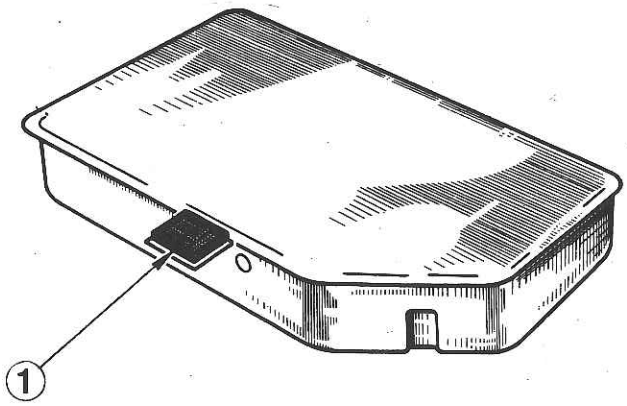
——— Supply lines
– – – – – Return lines

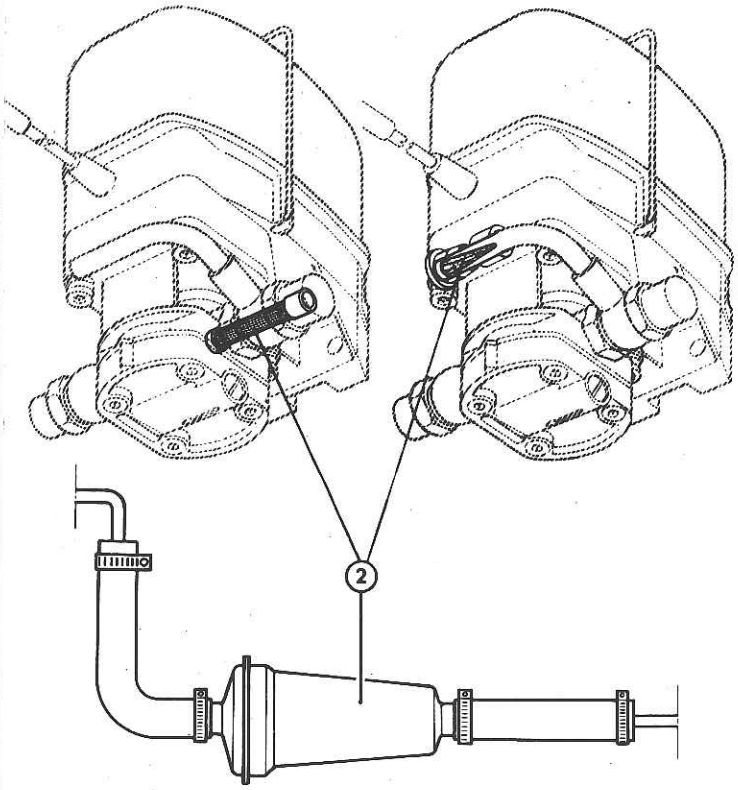
ELECTRICAL CIRCUIT

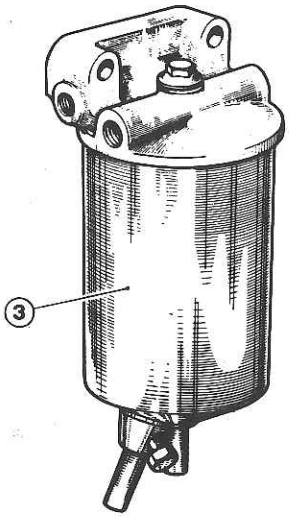
A - Battery
B - Ignition switch
C - Tell-tale light on instrument panel
D - Petrol pressure switch, rated at .4 kg/ sq cm (5.6 p.s.i.) or bar
E - Starter motor
F - Starter switch

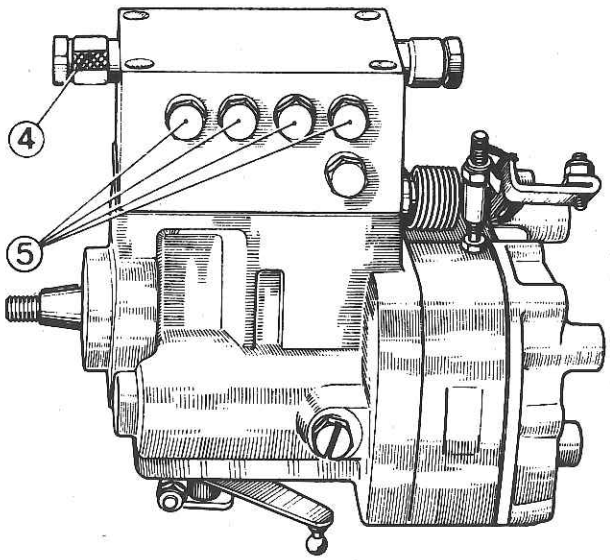
HYDRAULIC CIRCUIT

1 - Petrol tank
2 - Suction strainer
3 - Intake filter, feeding pump
4 - Electrical, fuel pump
5 - Water trap filter
6 - Intake filter, injection pump
7 - Injection pump hydraulic head
8 - Return union
9 - Electric starter spray









FILTERING

The petrol is filtered successively through :

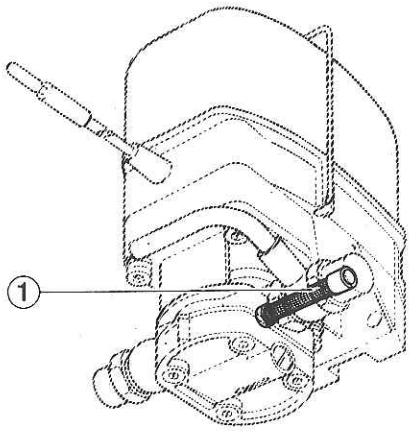
- petrol tank strainer **1**,
- screen filter **2** at the inlet of the fuel feeding pump; the location of this filter is shown on the diagram for the three successive fittings,
- water trap filter **3**,
- filter **4** in the intake union of the injection pump,
- suction valve filters **5**.

MAINTENANCE

As a rule, filters **2** and **3** only need to be checked.

Filter **2** must be cleaned during the maintenance check after the first 1.000 km (600 miles), and every 15.000 km (9,000 miles) afterwards. (See page 12 13).

Water trap filter **3** must be drained every 5.000 km (3,000 miles); the filter cartridge must be changed every 20.000 km (12,000 miles). (See page 12 15).



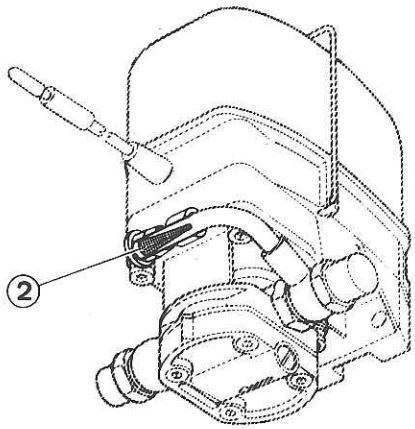
SCREEN FILTERS

1st Installation

Up to serial nos :

404 KF 2 - 4.573.055
404 C.KF 2 - 4.594.665

made of a cylindrical shaped wire gauze strainer 1 - which can be cleaned. It is located in the fuel pump inlet union.



2nd Installation

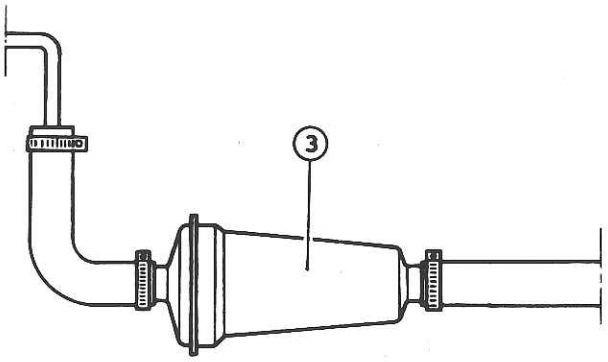
Starting from serial nos :

404 KF 2 - 4.573.056
404 C.KF 2 - 4.594.666 and

up to serial nos. :

404 KF 2 - 4.582.527
404 C.KF 2 - 4.595.860

made of a nylon strainer of conical shape 2 - which can be cleaned. It is located in the inlet part of the metallic pipe.



3rd Installation

As from serial nos :

404 KF 2 - 4.582.528
404 C.KF 2 - 4.595.861

the body 3 is made of synthetical material of conical shape replaceable, it offers a great filtering surface. It is located on the fuel inlet hose (for fitting see page 12 52 (2)).

P/N 1567.01

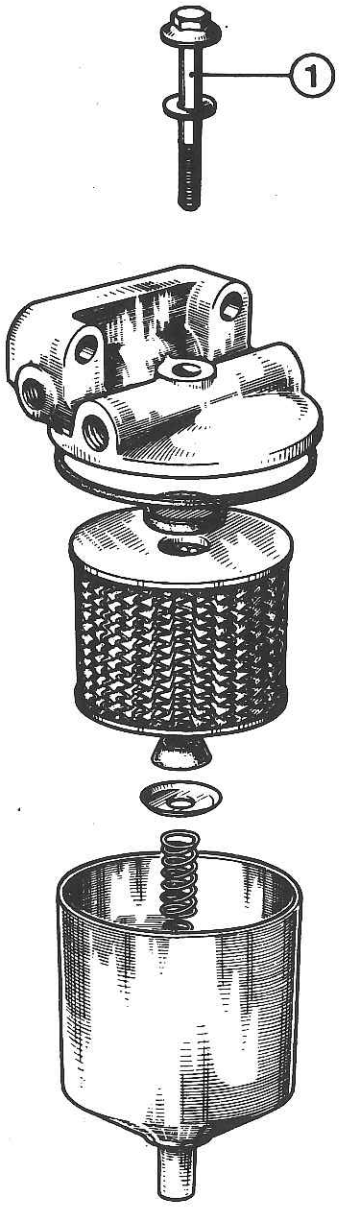
MAINTENANCE

- Filters 1 - 2 - 3 must be checked whenever the fuel pump discharge pressure falls below 1.1 kg/sq.cm (16 p/s.i.) at the first 600 miles check, then every 15.000 km (9.000 miles).

- Filter 3 must compulsorily be replaced when it is clogged. Never attempt to clean is with compressed air. A pressure more than 0.5 kg/cm^2 (7 p.s.i.) damages it and may render it useless.

XC.KF - KF 1

FEEDING SYSTEM - FILTERING



1st Installation

Up to serial nos. :

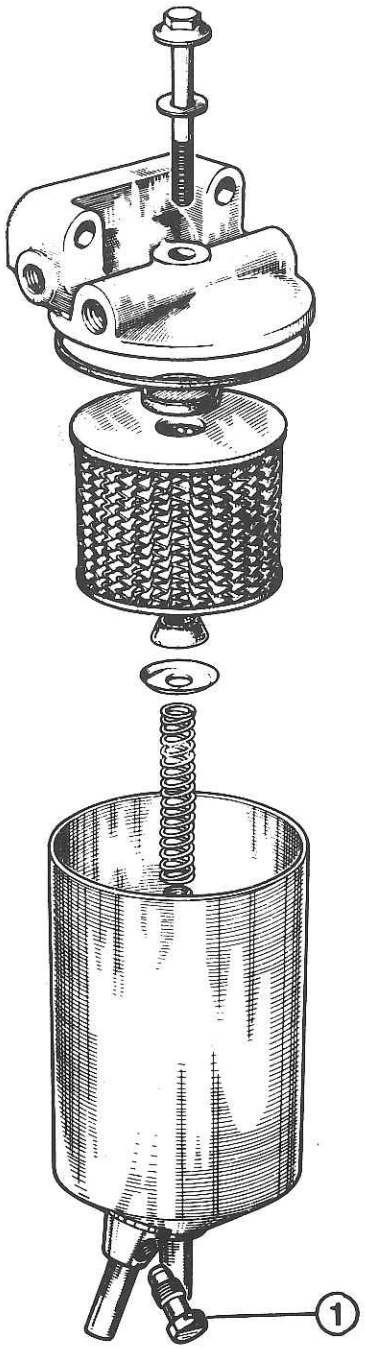
404 KF - 4.560.317
404 C.KF - 4.592.597
404 Co.KF - 4.592.605

A main filter without draining device is installed.

- Make : PURFLUX
- Type : CP 15 E
- Filter cartridge : C 113 - P.N. 1906.03
- Filtering area : 15 dm^2
- Size of smallest particle retained : 1 micron
- Vapour separator hole at the top of the filter body
- Tightening torque for unions : **0.9 m.kg** (6,5 ft.lbs).

Cleaning the main filter

- Remove screw 1
- Remove filter bowl by pulling downwards
- Wipe the bowl using a clean, lintless cloth. Drain the petrol tank and blow the petrol lines, if water has collected at the bottom of the filter bowl, even in small quantity.
- Re-install gasket and filter bowl
- Tighten screw 1
- Replace the filter cartridge when its condition seems questionable ; replace it systematically every 20.000 km (12,000 miles).



2nd Installation

As from serial nos :

404 KF - 4.560.318
404 C.KF - 4.592.598
404 Co.KF - 4.592.606

Water trap filter with elongated bowl and drain screw.

- Make : PURFLUX
- Type : CP 15 DE
- Filter cartridge : C 113 - **P/N 1906.03**
- Filtering area : 15 dm^2
- Size of smallest particle retained : 1 micron
- Vapour separator hole at the top of the body.
- Tightening torque for unions : **0.9 m.kg** (6.5 ft.lbs)

Draining the water

To be done every 5.000 km (3,000 miles). Cover the battery with a cloth, place a nylon container under the drain orifice, loosen screw 1, drain water, tighten screw 1.

Tightening torque 0.75 m.kg (5.5 ft.lbs)

Remove the bowl, clean the bowl, drain the petrol tank and blow the lines if more than 10 cubic centimeters or 1 cl. of water have collected at the bottom of the filter.

Replace the filter cartridge when its condition seems questionable ; replace it systematically every 20.000 km (12,000 miles).

The new installation can be accomplished on vehicles manufactured prior to the above mentioned serial nos. by mounting the following parts on the existing filter body :

1 bowl	PN 1911.05
1 drain screw	PN 1917.02
1 spring	PN 1909.03