

# Leisure Trail UK & KTM EFI Service Tips

## Service recommendations for EFI models

Dear KTM owner

To ensure that “KTM EFI models” perform reliably, you are advised to follow the service recommendations.

Checks of faulty EFI components often reveal damage caused by stone impacts or contamination caused by the introduction of dirt and water during cleaning and maintenance. The use of pressure cleaners in particular often leads to the ingress of water and dirt into cable and plug-in connections and EFI components. **Do not direct the pressure lance at any electrical or EFI components, do not use a pressure under the fuel tank or seat see below.**



**WRONG**



**WRONG**



**WRONG**

To prevent this, KTM developed **protection cap (£3.66)**, which will be installed as standard beginning with model year 2012, but which can be retrofitted in all 2011 models.

To properly retrofit this component, special tool 000 29 014 008 (£53.22) and 000 29 014 009 (£68.82) are needed to release the plug-in contacts of the cable from the TPS connector housing to be able to introduce the cable into the protection cap. This task is best performed by a KTM dealer who has to buy these ridiculously expensive specialised tools!



An important measure when cleaning the motorcycle when the tank is removed is to use the **wash cap set (£8.17)**



Before disconnecting the fuel line coupling, it is important that the coupling and its immediate vicinity is cleaned thoroughly and that the wash caps not be mounted beforehand. This ensures that dirt cannot enter the coupling to the injector valve



QD connector



Blanks fitted

The wash caps prevent dirt from entering the parts of the disconnected fuel line coupling when the tank is set down. When the tank is set down, the coupling with the mounted wash cap should not touch the ground. Instead, the fuel hose should be held up on one side.



**WRONG**



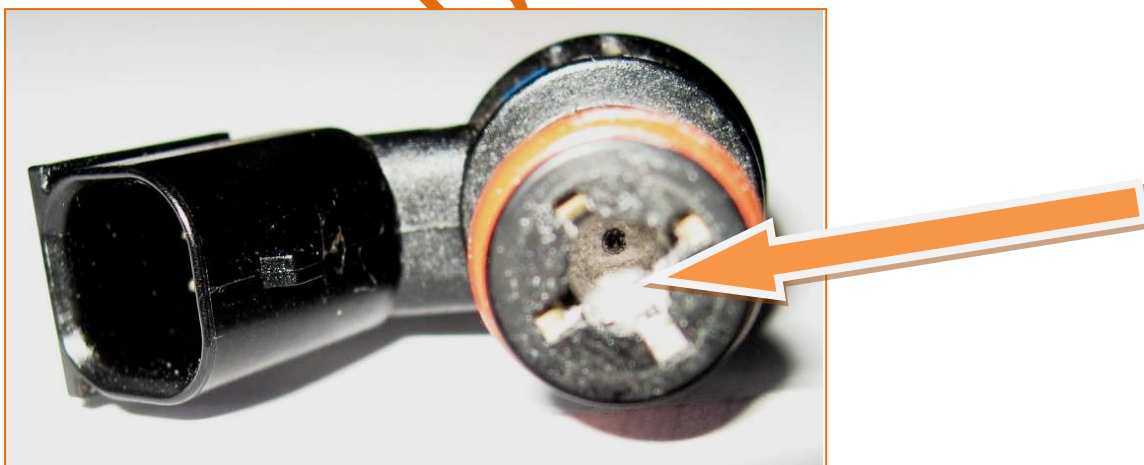
**RIGHT**

Other important steps to take when cleaning an offroad motorcycle are closing off the intake opening to the filter box; inserting a cloth in the opening under the wash cover to prevent water from entering the throttle valve body-be sure to remove the cloth again after washing; and closing off the main silencer (**Silencer Bung £4.95, Air Filter Cover Plate £8.25**) and the engine breather with M10 bolt.



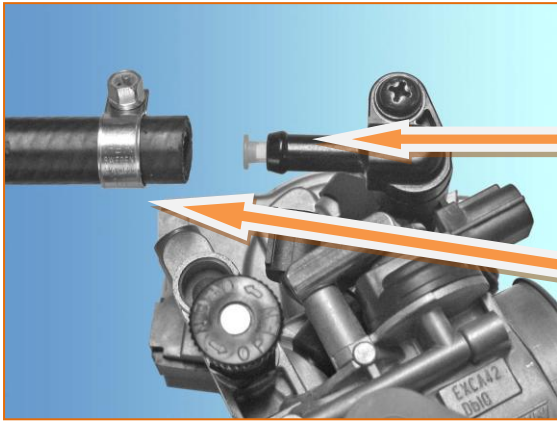
**After washing, it is important to start the vehicle and let the engine warm up so that the plug-in connections can dry, thus preventing corrosion. This is also mentioned in the Owners Manual**

Defective injection valves are usually the result of dirt in the integrated 20 micron filter (orange arrow). Dirt analysis has shown that a wide variety of substances are involved. Leisure Trail has an ultrasonic cleaner to remove this dirt.



To prevent dirt from entering the filter integrated in the injection valve, an **additional fuel screen (£8.76)** will be installed in the fuel line beginning with model year 2012.

The small filter is inserted in the fuel entry pipe on the throttle body.



Slide in the fuel screen until it engages

Replace crimped clamp with screwed clamp supplied in kit

The new fuel screen can also be retrofitted in vehicles already on the market. This filter is a service item and should be replaced at first service (1 hours use) then approx. every 20-25 hours, available from Leisure Trail.

The new white framed filter in this kit has a 20 micron mesh. It replaces the black framed filter (fitted to earlier 2012 models) which had a 10 micron mesh, which has proved to be too fine a mesh. Before fitting fuel filter, blow out fuel line as shown below, and then replace the crimped clamp with the screwed clamp supplied in the filter kit.



Fuels containing a high proportion of ethanol, various additives, aviation fuel and other special fuels may lead to damage in the new pumps and other EFI components. Leisure Trail and KTM recommends to use super unleaded from a quality supplier (Shell, BP, ESSO etc), not from supermarkets.



Always ensure fuel containers, jerry cans etc. are always clean.

We recommend you filter your fuel if unsure or better still fit a fuel tank filter sock which filters your fuel as its poured into the fuel tank, details below.

Ensure that connectors are free of damage, dirt and corrosion. They should never be opened with screwdrivers or pliers.

Ensure that the earth cables are securely attached and make good contact.

It is possible for dirt to contaminate electrical connector blocks, see below. You are advised to clean plugs with compressed air and not to treat plug-in connections in the EFI system with so called contact sprays (ie WD40).

These substances can lead to “creepage currents” which may lead to malfunctions due to the extremely low control voltages and currents.



Special attention needs to be paid to the spark plug connector. Dirt and water can lead to creepage currents, to shorting of the ignition voltage, and to the ensuing malfunctions.

In addition to cleaning the spark plug connector regularly and thoroughly using brake cleaner and blowing it out with compressed air, ensure the following:

- The ignition wire is firmly seated in the spark plug cap
- The spark plug cap is firmly seated on the spark plug
- The spark plug housing is not in contact with the cylinder head
- The spark plug housing is not damaged

If the engine is not running smoothly, it's not starting properly or is misfiring, check the above-mentioned points first and replace the spark plug connector when in doubt.



A new improved **KTM spark plug connector (£24.54)** is available from Leisure Trail for both 250cc EFI and Carb Twin Cam EXC/SX/XC from 07 onwards.

KTM have just released this **Fuel tank Filter sock (£24.67)** which fits into the filler neck and sits inside the fuel tank and effectively filters fuel every time it is poured into the fuel tank. This will add

another barrier to protect EFI systems from problems, fits all EFI models and in stock only

Regards

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