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DPF Check list & Installation Guide 15-6-16 v2.0

A diesel particulate filter (DPF) is a device designed to reduce the emissions from diesel fuelled vehicles. The filter, traps particulate matter (soot) which it then when full, reduces to ash during regeneration. Regeneration is controlled by the correct driving cycle of the vehicle and its engine management system. Faults that occur with a vehicle can cause the DPF to become blocked or damaged and then regeneration is not possible.

UNLESS ALL PRE-EXISTING VEHICLE FAULTS ARE IDENTIFIED AND RECTIFIED, REPEAT DAMAGE WILL OCCUR TO THE NEW DPF OR CAT.

THE RESULTING DAMAGE IS NOT COVERED BY WARRANTY!

1- Common Causes of DPF Blockage or Failure:

All systems listed below should be checked for faults and rectified prior to the installation of a new DPF:

- ⌚ Continuous urban drive cycles.
- ⌚ Incorrect engine operating temperature – too cold.
- ⌚ Incorrect or contaminated lubricating oil – must be a “low solids” DPF oil.
- ⌚ Incorrect or contaminated fuel – Fuel additives, bio diesel.
- ⌚ Induction & intercooler system air leaks - check for split hoses and loose clamps
- ⌚ Blocked or split pressure sensor pipes and hoses
- ⌚ Faulty DPF temperature pressure sensors or pressure differential switch/sensors.
- ⌚ Corrosion
- ⌚ Internal DPF filter cracks
- ⌚ Faulty, damaged, poor quality or a poor quality hi-flow catalytic converter
- ⌚ EGR valve stuck or failed
- ⌚ Turbo failure, leaking turbo oil seals
- ⌚ Injectors leaking, stuck open or not calibrated

2- Fitting Advice

Our DPFs are direct fit items and should be fitted following the same general advice as when fitting a catalytic converter:

- ⌚ Do not use exhaust paste.
- ⌚ Fit DPF into all mounts and clamps and adjust for fit before tightening
- ⌚ Use only metal gaskets as composite will not last
- ⌚ Make sure that all joints are properly sealed.
- ⌚ Where a “Wet Regeneration” system is fitted (Most French cars, some European Fords and Volvos) ensure the Eolys fuel additive tank is full. Dealers recommend a full fluid change when changing the DPF
- ⌚ ECU Fault codes must be cleared using a suitable scanning tool.
- ⌚ ECU must also be reset to zero according to the manufacturer’s specifications. (If the ECU is not reset correctly, the vehicle will continue to display the DPF Warning Light.
- ⌚ Final step is change the engine oil a (because of fuel dilution during the regeneration process)
- ⌚ Change the engine oil and reset the ECU oil change where applicable.