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Fitting guidelines for 1.6 HDI

The following is advice from main dealers who carry out warranty repairs.

Engine – 1.6 HDI 90bhp and 110bhp

Found in – Citroen, Ford, Mazda, Mini, Peugeot, Volvo

Fitting guidelines

1. Remove all injectors and replace copper washer seals	
2. Remove oil pump check for blockages clean/replace	
3. Clean both main engine oil feeds	
4. Turbo oil feed pipe and banjo bolts must be changed	
5. Remove sump and clean	
6. Remove steel mesh from banjo bolt on engine side.	
7. Oil cooler and filter assembly should be removed and cleaned	
8. Remove and clean intercooler thoroughly	
9. All intercooler inlet & outlet hoses must be clean and check for damage	
10. Check Exhaust system contamination/blockage (Cat, DPF etc.)	
11. Remove break vacuum pump and clean if necessary	
After all steps have been followed carefully fit turbo	
12. Use engine flush to clean and drain from engine	
13. Fit new oil filter and new oil	
14. Check and clean oil drain pipe	
15. Oil flow must be checked	
• Remove vacuum pipe from turbo	
• Remove rubber oil return pipe	
• Install a rubber tube over oil return into a measuring jar	
• Run engine at idle for 60 seconds then turn off	
• The volume of oil in the measuring jar must be at least 0.3liters.	
• Repeat this 2-3 times to ensure correct oil flow	
• During test do not allow engine oil to run below minimum oil level	
• Test drive car for 20-30 miles then carry out engine flush, replace oil and oil filter again.	

It is important to note that these are just guidelines to help address the issue of this engine. Residual engine carbon/sludge could still be on the internals of the engine, this can't be cleaned without a full engine rebuild. If there is incorrect oil flow or the wrong oil is used this will lead to premature turbocharger failure. If this occurs it will **not be covered** by warranty. Our warranty will cover only turbocharger parts. We will not be liable for labour costs incurred through fitting.