

IMPORTANT !!

First read our installation instructions, after that start the installation of the engine in the specific vehicle.

By following up the manufacturer data and the installation instructions of CSN Engines you'll ensure yourself the durability of the purchased engine. Doing so you also follow up the guarantee terms.

Precaution

- 1) Before you start with the assembly of the purchased engine, we strongly recommend to perform a diagnosis and localize the malfunction of the original engine. Please inform us accordingly to enable us to advise you for a (potential) special procedure. Engine failure is often caused by attached parts and/or external factors.
- 2) Compare both engines. Any differences will be noticed in an early stage.
- 3) If there're any major differences between your original and the engine we delivered to you, contact us for further proceedings.

Assembly

- 1) The exchangeable parts need to be professionally checked and cleaned before potential reuse. This is to provide direct pollution into the purchased engine. Consider i.e. the intake manifold, oil cooler, EGR-cooler, intercooler, turbo, etc. If there is any doubt; renew the specific part.
- 2) Pay extra attention to the injectors, fuel pump and turbo. Test these parts by professionals with a test record. If it's necessary renew the specific parts. The mentioned parts are frequently the cause of an engine malfunction.
- 3) The timing belt/chain and it's components need to be replaced. The purchased engine could be in our warehouse for a couple of years. Due to this it could be the parts are aged and don't function properly.
- 4) Renew the air-, fuel-,oil filter and oil. This all according to the manufacturers specifications.
- 5) Everything needs to be assembled with the tightening torques according to factory data.
- 6) Assemble a rebuild/remanufactured engine **WITHOUT** the injectors/sparkplugs. To control the oil pressure, the engine needs to be turned/started for quite a while. With the injectors disassembled there won't be any compression created in the cylinders. In this way the engine can be turned at a higher rpm. Doing so the oil can reach every essential part of the engine without heavy friction on the internal parts.
- 7) Ensure the fuel pump is disabled/disconnected.
- 8) Turn/start long enough until you're sure the oil have reached all the essential parts of the engine. Minimal 1 to 2 minutes. If present, control the oil pressure with the oil light or oil pressure gauge.
- 9) Finish the installation and run the engine idle. Don't put the engine on high rev's.
- 10) Check all systems and inspect specially on any leak. Let the engine idle for a couple hours before the car is taken for a test drive. Take it easy with the test drive. Drive in a low to normal rpm. So don't accelerate unnecessary. Also not load the car with a heavy weight.

After care

- 1) Change the oil and oil filter after the first 1000 kilometres.
- 2) Check for the oil level more often, especially in the beginning. There could be a higher oil consumption in the beginning due to the wear in of the new internal parts.
- 3) Change the oil and oil filter more often than the prescribed factory data. We know by experience the manufacturers prescribe sometimes too long maintenance periods.
- 4) If there occur any failure or problem. Please contact us for further actions.
- 5) If you do not follow up these instructions; a possible warranty-claim will be invalid.
- 6) We only provide product guarantee, so damage due to not following up of these instructions or assembly failure won't be compensated.
- 7) Please note the delivery and payment conditions, which are agreed upon with the purchase of this engine.

Good luck with the installation.