



PRECISION PERFORMANCE
SINCE 2002



TECHNICAL LIBRARY

1997-2008 PORSCHE® BOXSTER®, CAYMAN® AND 911® CARS WITH M96/M97 ENGINES

WARNINGS AND PRECAUTIONS

Follow the directives provided with your LN Engineering components during the rebuild process. The purpose of this supplemental bulletin is to advise customers of potential trouble areas that should be addressed during this process to ensure a successful outcome.

THE FOLLOWING ITEMS SHOULD ALWAYS BE REPLACED WHEN REBUILDING AN M96 ENGINE USING GENUINE PARTS ONLY:

- ▶ Fuel injectors
- ▶ Mass air flow (MAF) sensor
- ▶ AOS
- ▶ AOS vent tube
- ▶ Oil fill tube
- ▶ Dipstick tube
- ▶ Oil, fuel, and coolant fill caps
- ▶ Knock sensor

IF THE ENGINE SUFFERED FROM CYLINDER SCORING, INTERMIX (OIL/COOLANT MIX), OR INGESTED LARGE QUANTITIES OF OIL, THESE ITEMS SHOULD ALSO BE REPLACED:

- ▶ O2 sensors
- ▶ Catalytic converters

NEVER USE THE FOLLOWING:

- ▶ Aftermarket engine software (even with stock rev limit)
- ▶ Cold air intake
- ▶ Solid engine/transmission mounts
- ▶ Single Mass Flywheel
- ▶ Synthetic oil before 5000 miles

ALWAYS:

- ▶ Check over all engine ancillary parts and replace any components that are damaged or defective.
- ▶ Use an “air-lift” system to charge coolant system. If the system does not hold vacuum, leaks or failed cooling system components must be corrected.
- ▶ Add fuel system cleaner such as Seafoam or Lubro-Moly Jectron to first tank of gas and Driven Carb Defender to every other tank if using E10 fuel.
- ▶ Be sure that the vehicle has had a “hard reset” (battery disconnected from both terminals, and cables touched together) performed, along with a “system reset” or “vehicle handover” before initial start. Throttle adaptation may also be needed.
- ▶ Drain 100% of old gas from the fuel tank if the car has been sitting more than 30 days and fit new fuel filter (if equipped). Old gas kills new engines.
- ▶ Properly break-in an engine before returning the vehicle into normal service.
- ▶ Verify the air-fuel ratio, take manometer readings, and record all fuel trim values (FRA/ RKAT) before releasing the vehicle to the customer.
- ▶ Inform your customer how to properly check their oil level and not to overfill the engine. Max oil level should be halfway between low and full and should not be topped off unless under the minimum fill line.