

### **Coil On Plug Boot Failure**



Coil on Plug (COP) assemblies, while replacing spark plug wires and related maintenance, do have a finite life and can fail in much the same manner. The normal life expectancy for a COP boot is approx. 60,000 to 80,000 Km depending on the engine environment and relative temperatures. Engines running on alternate fuels such as propane will exhibit a shorter boot life due to the added temperatures and higher firing voltage levels. Each of these conditions will cause greater stress on the boots. Many COP misfire problems are diagnosed as coil failures, however the boot integrity is usually to blame.



During routine spark plug service each COP boot should be inspected for cracking or other damage. Light pressure can reveal cracks in the boot that can lead to misfire, and if left unchecked, will cause coil damage due to the higher than normal discharges. Contaminants such as rust, or carbon deposits from leaking spark plug insulators, will look much the same in appearance. Either of these contaminants can lead to carbon tracking and misfire problems.

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