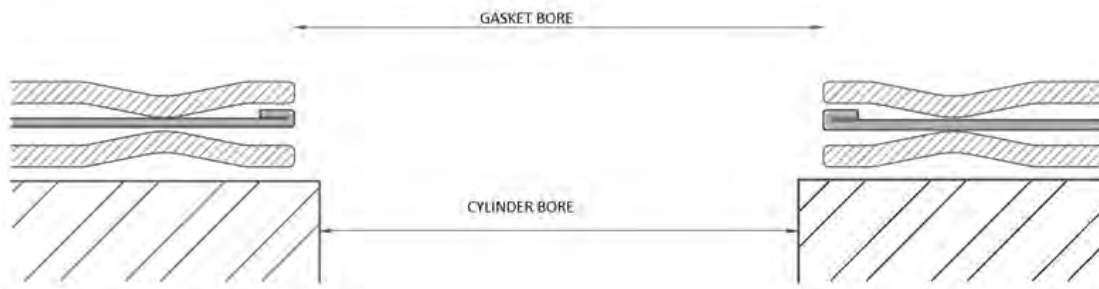




MLS MULTI-LAYERED STAINLESS STEEL HEAD GASKETS **SPARTAN**



Note: Head gasket bore opening should always be larger than the cylinder bore opening. Image depicts Gas Stopper design (MLS GS) head gasket.

Installation Instructions

Features & Benefits:

- Enhanced sealing properties in high compression, forced induction and nitrous oxide applications.
- Optimized load balancing on cylinder bore.
- Improved engine performance.
- Longer engine life.

Steps:

1. Thoroughly clean and degrease block and cylinder head sealing surfaces.
2. Inspect block and head sealing surfaces for:
 - a. Maximum warpage: .002" across shortest section.
 - b. Surface Finish Recommendation: 30-60 Ra (roughness average).
 - c. Gouging: Aluminum surfaces must be free of deep scratches, gouges, or depressions.
3. Chase engine block threads with a thread tap -threads must be clean for accurate torque readings. Unclean threads may result in gasket failure.
4. Inspect new head gasket to insure no damage in shipping. Polymer sealant coating should be uniform and devoid of scratches or scuffs.
5. Use care in handling; SCE Gaskets MLS Spartan and MLS Spartan with Gas Stopper have a proprietary two-part sealant coating: second coating can be damaged by excess handling.
6. Use no sealant; additional sealant will negatively affect sealing at cylinder bores.
7. Install head gasket on block sealing surface. **Important: make sure each head gasket is properly positioned regarding coolant, oil pressure and oil drain passages.**
8. Use new fasteners and lubricate (moly lube is preferred) threads, underside of bolt heads, nuts, and upper side of washers.
9. Torque specifications and sequence; follow cylinder clock and fastener manufacturer recommendations. Failure to do so may prevent fasteners from reaching correct preload leading to gasket failure.
10. Start engine and allow it to reach operating temperature. Check for engine leaks (fluid or vacuum). If there is a leak, stop the engine, let it cool and find/fix cause of leak.
11. Re-Torque head bolts (engine cold) according to block manufacturer instructions; not required but always suggested on racing engines.

MLS Spartan Gas Stopper (MLS GS) technology offers enhanced multilayer head gasket combustion sealing where required. A stainless-steel Gas Stopper layer is folded onto itself around the cylinder bore aperture to provide additional clamp load on the combustion seal for high cylinder pressure (power adder) applications.