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**We recommend at minimum .080” exhaust valve clearance and .040” intake valve clearance with a stable valvetrain using quality components. Engine speeds exceeding (or having the potential to exceed – ie. stick shift car missed shift) 7500rpm should consider additional piston to valve clearance for an added safety factor in the event of valve-train loss of control.**

**These are general guidelines - combinations can vary and we recommend always checking PTV clearance to accurately determine required flycutting amounts.**

**L99 VVT** – OEM gasket thickness = .051”

Exhaust valve reliefs are sufficient, no cutting needed on exhaust side.

Intake flycutting will be needed when milling on the following.

SS1VVT and SS2VVT you can mill .015 without cutting OR run a .040” thickness gasket. Beyond that, flycut the same amount you mill and/or reduce with thinner gasket.

SS3VVT you can mill .010 OR run a .040” thickness gasket without cutting. Beyond that, flycut the same amount you mill and/or reduce with thinner gasket.

SS4VVT you have to flycut .035 on stock unmilled heads and stock .051” thickness gaskets. Beyond that, flycut the same amount you mill and/or reduce with thinner gasket on top of the .035. (example .040 mill would need a .075 cut)

**LS3** - OEM gasket thickness = .051”

Exhaust reliefs will need cut as well as intake reliefs when cutting is required due to the flat top piston.

SS1 and SS2 can mill .020, run a .040” thickness gasket, or mill .010” and run a .040” thickness gasket. Beyond that, flycut the same amount you mill and/or reduce with thinner gasket.

SS3 and SS4 No Fly Cut Will need Flycut the same amount you mill and/or reduce with thin gasket.

SS Hi Ram requires milling to generate appropriate compression. Will need to Flycut .070” on intake and .110” on exhaust plus the amount you mill and/or reduce with thinner gasket. (example, .050” mill would need .120” relief on intake and .160” relief on exhaust)

**LT1** - OEM gasket thickness = .051”

Intake reliefs only

SS1LT – SS2LT you can mill .010 OR run a .040” thickness gasket without cutting. Beyond that, flycut the same amount you mill and/or reduce with thinner gasket.

SS3LT is near minimum PTVC with unmilled heads and stock thickness gasket. Flycut the same amount you mill and/or reduce with thinner gasket.

LT-NFC can mill .040” and run a .040” thickness gasket without cutting. Beyond that, flycut the same amount you mill and/or reduce with thinner gasket.

SS4LT and LT-Track Attack require milling to generate appropriate compression, and will require flycutting the same amount you mill and/or reduce with thinner gasket.

LT- Track Attack Hi Ram Attack requires milling to generate appropriate compression, and will require flycutting .100” plus the amount you mill and/or reduce with thinner gasket.