

WARRANTY DISCLAIMER

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IMPORTANT INFORMATION PLEASE READ

We appreciate your purchase of MAHLE Performance Rings.

Please take a minute and read this information sheet before you begin installing your new rings. It is packed with helpful information and tips to help you get maximum performance and reliability from your purchase.

At MAHLE Motorsport our top priority is customer satisfaction. While this sheet is designed to answer the most common questions, don't hesitate to give us a call with your specific questions

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Preparing the Rings

Drop in ring sets typically require no adjustment to end gaps, but MAHLE recommends that the rings be checked for minimum end gap. File fit rings require individual fitment adjustments to the top and second rings. This allows you to set the ring gap precisely to your exact needs. The following chart gives suggested minimum ring end gaps for various applications. If running aggressive boost or nitrous applications it may be necessary to increase end gaps.

Application	Top Ring	Second Ring	Oil Ring
Multiplication Factor Chart [i.e. $4.000 \times .0045 = 0.018$]			
Street, Strip, Circle	Bore x .0045"	Bore x .0035"	Minimum .015"
Nitrous over 200hp	Bore x .0065"	Bore x .0050"	Minimum .015"
Blown Gas*	Bore x .0050"	Bore x .0040"	Minimum .015"
Blown Alcohol*	Bore x .0045"	Bore x .0035"	Minimum .015"

**These specs apply to any type of forced induction system*

Proper Ring Gap Measurement

A torque plate is highly recommended to insure correct measurements. The ring should be square in the bore, 1 inch down from the deck. Measure the end gap with a feeler gauge or other measuring device.

Oil Control Ring Tension

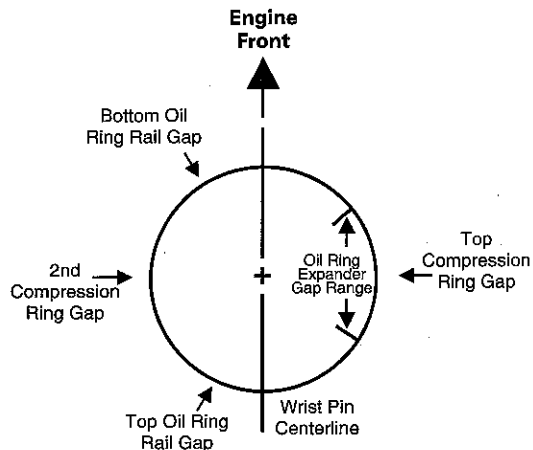
MAHLE highly recommends that all wet sump or aluminum block applications use standard tension. Standard tension (3mm) expander sets are available to supplement the "ML-043" sets which are low tension.

WARNING: Tight ring gap clearances may cause major engine damage.

Proper Ring Filing

The ring gap should be filed using the proper ring gap filing tool. Ring gap should only be filed in an inward direction and square to the ring sides.

Proper Ring Alignment



Due to the nature of performance applications, this information should not be considered absolute. Final decisions concerning the installation and use of these products is ultimately the responsibility of the customer.