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# INSTRUCTION MANUAL

## AEROFLOW PERFORMANCE

### MANUAL PISTON RING FILER

## WARNING!

BEFORE PROCEEDING WITH INSTRUCTIONS PLEASE READ CAREFULLY AND UNDERSTAND BEFORE ATTEMPTING TO USE THIS PRODUCT.

BEFORE PROCEEDING WITH INSTALLATION PLEASE READ INSTRUCTIONS CAREFULLY. THIS PRODUCT REQUIRES DETAILED KNOWLEDGE OF AUTOMOTIVE SYSTEMS. WE RECOMMEND THAT THIS INSTALLATION BE CARRIED OUT BY A QUALIFIED AUTOMOTIVE TECHNICIAN.

### INTRODUCTION

Congratulations on your purchase of the Aeroflow Performance manual piston filer. Aeroflow Performance products cannot and will not be responsible for any damage, or other conditions resulting from misapplication of the parts described herein. However, it is our intention to provide the best possible products for our customer, products that perform properly and satisfy your expectations. Should you have any questions? Please call technical support at +61 2 8825 1900 and have the product part number on hand when calling.

The Aeroflow Performance manual piston is designed to be used to file back your engine piston rings from the manufacturer. Proper ring gaps are important for maximum performance and this tool will allow you to gap your piston rings quickly and easily.

***NOTE: Check the instructions from the piston manufacturer to determine the proper ring gap for the application. Power adder engines will require larger end gaps than normally aspirated engines.***

***NOTE: Replacement grinding wheels are also available sold separately AF59-2099***

*For more information or technical enquires*

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## INSTRUCTIONS

1. Mount this tool on a suitable work surface with the included mounting bracket for best results.
2. Insert the turning handle in the tool and secure with the set screw.
3. Place the piston ring on the outer edge against the stop and the ends squarely against the grinding wheel. A light, even pressure against the wheel works best and will help prevent grinding too large a gap in one go.
4. Turn the handle so the grinding wheel turns towards the inside edge of the ring (counter-clockwise when viewed from the handle side of the tool).

**CAUTION: this grinding disc is 120 GRIT and cuts very fast**

5. Once you have cut down the piston ring and done a few revolutions on the tool. It's time to check your ring gap.
6. Carefully remove any burrs on the ring ends before placing the ring in the bore. A light touch with a fine abrasive stone works well.
7. It is a good idea to clean the rings thoroughly as the paint coating from the factory may scratch the cylinder bore.
8. Place the ring squarely in the cylinder bore, about 25mm ( 1" ) down from the deck surface. An upside down flat top piston will help you properly square the ring or purchase a piston ring squaring tool sold separately.
9. Use a feeler gauge to measure the ring's end gap. Light grinding pressure and frequent checking will help prevent you from making the end gap too large.



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