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**Installation Instructions for the  
RMS18 Viton® (3-inch main)  
One-Piece rear main seal**

**Overview:**

You have purchased the most advanced rear main seal on the market for the traditional Pontiac V-8. This revolutionary design features a number of state of the art innovations including relocation of the parting line which greatly reducing the risk of leaking, a more pliable construction that will work more effectively in engines with seal groove geometry issues, and double lip design to provide twice the protection against leakage as well as supporting outstanding vacuum numbers.

**Position:**

The square indents around the diameter go toward the rear of the engine (flywheel side) on installation. Also if you examine the seal closely you will see that there is a helix pattern on the oil control lip. This lip goes towards the front of the engine, not to the flywheel side.

**Preparation:**

Look closely at the square indents on one side of the seal; one of these indents has a small hole. At this position you should cut through the seal radially using a very sharp blade. Liberally lubricate the groove between the seal lips with a high temperature grease prior to assembly.

**Installation:**

Flex the seal around the crankshaft carefully drop assembly into the engine or if the crank is still in the engine work the seal around the crankshaft. The radial split line should be towards the top of the engine when in the normal running position which puts the joint face away from the main cap parting line for 2 pc seals. Care should be taken to make sure that the seal does not get mis-aligned during assembly otherwise damage may occur. It should not be necessary to use any adhesives during seal assembly as the radial cut faces will be matched with each other from the blade cut.