

PROCEDURE TO CLEAR OIL PUMP CHECK VALVE

CRITICAL: Always wear safety glasses.

Introduction

All Pro-Series® oil pumps contain check valves to prevent “sumping”, or motor oil from the oil reservoir draining into the engine case via gravity. Should a piece of debris become lodged in the check valve and prevent it from closing, motor oil will flow from the oil tank into the engine while the engine is not running.

Attempting to clear a blocked check valve

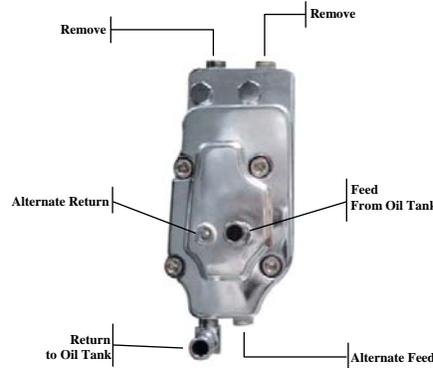
Check valves are pressed into the oil pump body, and are not easily replaced. The easiest way to clear a blocked check valve is with compressed air while the oil pump is installed on the engine. Remove the two pipe plugs from the top of the oil pump (see photo). Follow the appropriate instructions for your oil pump, below.



Pipe Plugs to Remove



Classic Oil Pump



Smart Oil Pump

Classic Oil Pump

Hold a rag over the holes on top of the oil pump where the pipe plugs were removed. Force compressed air into the feed-fitting of the oil pump (see photo, below). The oil remaining in the feed side of the pump will be forced out through the holes in the top of the pump along with any debris that was caught in the check valve.



Smart Oil Pump

Hold a rag over the holes on top of the oil pump where the pipe plugs were removed. Force compressed air into the clean-oil feed-fitting of the oil pump (fitting in cover, see photo, below). The oil remaining in the feed side of the pump will be forced out through the holes in the top of the pump along with any debris that was caught in the check valve.



Clean and re-install the pipe plugs removed from the top of the oil pump. Apply thread sealant to each plug’s threads. Do not use plumbing tape (such as Teflon) for this installation! We recommend Permatex High-Temp Thread Sealant, Part No. 59235 for pipe fitting assembly.