



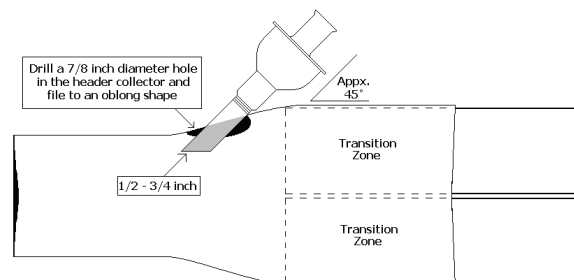
# CRANKCASE EVACUATION SYSTEM

Read entire contents before beginning installation

## Kit includes:

- 2 - Chrome plated push-in valve cover breathers
- 2 - Check valves
- 2 - Weld in 3.5" long threaded pipe adapters
- 2 - Rubber breather grommets
- 4 - Hose clamps

- With valve covers off of engine, use a hole saw to cut a 1.22 inch diameter hole in each valve cover. Hole placement should be on the upper flat surface of the valve cover. **Note:** Before drilling, make sure the hole is not placed directly over a rocker arm oil passage.
- Press a rubber breather grommet into the hole in each valve cover. Lightly oil the inner surface of breather grommets and twist breathers into the grommets, making sure the fit is snug to prevent air leaks.
- With header collectors off of vehicle, drill a 7/8 inch diameter hole on the upper surface just slightly past the collector transition zone. See illustration.
- Using a file, open up the hole in each header collector to create an oval opening. The opening should be sized so that the threaded pipe can be positioned at a 45 degree, forward facing angle. See illustration.
- Insert the notched, unthreaded pipe end into the prepared hole of each header collector. Pipes must extend down into the header collector at least 1/4 inch beyond the notch on tube. The complete pipe depth should be 1/2 inch for a 2.5 to 3 inch collector and 3/4 inch for a 3.5 to 4 inch collector. See shaded area in illustration. Once pipe is in position, weld completely around the entire pipe diameter to ensure a leak proof seal.
- Apply Teflon tape to the threaded portion of pipe then thread the check valve onto it.
- For each side of the engine block, determine the length of 5/8 inch heater hose (not included) and use clamps to secure. One hose end slides onto the check valve, the other end slides onto the nipple of the valve cover breather. Route each hose so they will never come in contact with hot header pipes.



**Allstar Performance 8300 Lane Drive, Watervliet MI 49098**  
**Phone: (269) 463-8000 Fax: (800) 772-2618 [www.allstarperformance.com](http://www.allstarperformance.com)**