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CONGRATULATIONS, you have purchased the finest, most advanced performance camshafts available. WEB-CAM PERFORMANCE CAMSHAFTS are designed in our facilities, tested on a dyno, and proven every week-end by national champions and record holding racers. WEB-CAM camshafts are precision ground, either hard-welded or double heat treated, then coated with a dry film moly lubricant to insure long life.

CAUTION - PLEASE READ!

When assembling a high performance engine, the use of after market components - such as cams, pistons, valves, valve guides, and springs - requires caution and clearance checks during assembly. Since these components were not designed and tested by the engine manufacturer, it is your responsibility to ensure that these high performance parts will work together without interference! Some points to check are listed below. The following notes are based on an overhead cam, rocker arm, single cylinder engine. Bucket type cam followers require all the same check listed here, plus bucket-to-head clearance at maximum lift, but techniques will vary slightly. Pushrod engines also require all these checks listed here, plus checking that the pushrods do not rub the pushrod housings or interfere with rocker arms.

- 1) Start at the top of the engine, check rocker arm to top clearance (.040" Minimum) through one revolution of the cam.
- 2) Stop at maximum lift and check top retainer to valve guide seal clearance. (.030" Minimum)
- 3) While at maximum lift, be sure to check for valve spring coil bind. Minimum of .015" between three coils for a total of .045" of clearance
- 4) Stop at overlap position (Both intake and exhaust valves open) and check clearances between intake and exhaust valves. (.040" Minimum) This is vital with oversized valves and high performance cams.
- 5) Check piston to cylinder head and head gasket clearance. (.030" Minimum) This is important with big bore pistons.
- 6) Check piston to intake and exhaust valve clearance. (.050" Minimum on the intake, .080" Minimum on the exhaust.) This step is vital with high compression pistons, high lift cams, and oversized valves used singly or together.

Be certain that you are using the proper gear flange bolts and that the bolts can be threaded in easily by hand to firmly secure gears. If slotted gears are used, make sure the slots are not sloppy or too wide. NEVER hammer, tap on, or shock the gear flange or bolts while you degree or install cams. Torque bolts to proper specifications. Gear flanges can break and are not covered under the warranty. Some camshafts have a reduced base circle radius and require lash caps, shims, longer valve stems or longer adjusting screws for proper valve adjustment. Suzuki and Kawasaki pro-stock grinds are an example.

Please use a premium grade (SAE 30) petroleum based racing motor oil such as Kendall or Valvoline. We do not recommend any type of synthetic oil. Use new followers, shims, rockers, etc. with new camshafts, failing to do so will cause premature failure of your camshaft. Camshafts require special break-in procedures. For the first 10-15 minutes of use, we recommend setting your engine at a high idle (2000 RPM) to insure proper lubrication.

CORE REQUIREMENTS

(Applies to hardwelded products only)

If you did not send your cam for processing and purchased a cam core, you may return a stock cam for a core refund. All cam cores must be returned within six months of purchase. Although the lobes of a hard-welded cam are totally re-worked, the rest of the cam is not. In order to receive a full core refund, you must return a good core, a copy of your original invoice, and it must be received within 6 months of your invoice date. The following are some reasons that would cause your core to not be accepted.

- Damage to the journal areas.
- Journal areas out of round.
- Previously Hardwelded cam. (Call for more information)
- Stripped or broken bolt holes.
- Excessive overheating.
- Inferior aftermarket cores

LIABILITY RELEASE

The purchaser releases the parts manufacturer, and WEB-CAM Inc. from all liabilities pertaining to the installation and use of purchased parts. Purchaser recognizes that any alteration and/or modifications to the vehicle may increase the risk of injury or accident, and may also render the vehicle illegal for use on public roads.

THANK YOU

Please read the warranty and installation information on your enclosed timing card. If you have any questions, do not hesitate to call us @ 951.369.5144. Thank you for choosing WEB-CAM Racing Cams and Quality Valve Train Components.