



PERFORMANCE CYLINDER HEADS

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**\*\*\*READ BEFORE INSTALL\*\*\***

Attention Service Department:

The cleanliness cast iron cylinders is VERY IMPORTANT. The enclosed cylinders have been pre-cleaned but we STRONGLY suggest you RECLEAN them with hot soapy water and wipe down with lacquer thinner and a lint free rag until there is no sign of honing residue present. It is important to make sure all oil holes and stud holes are clear of debris. Also, clean ALL piston parts.

We use Spectro break in oil or Rotella T4 heavy duty 15/40 oil for the first 700 break-in miles. After the initial break-in period, we switch to either Amsoil synthetic 20/50, Redline synthetic or a comparable synthetic oil. We do not recommend synthetic from Harley Davidson.

Note to engine builders:

We strongly suggest, before final assembly of cylinders and before installing piston rings, that you check piston to cylinder deck height. This needs to be checked with cylinders pulled down making sure the o-rings or gaskets are fully collapsed. You can use your head bolts with spacers, or some cylinder pull-down nuts. You should check each side of your piston directly over the wrist pins. This could vary, so you would want to split the difference. We like to see the piston no more than .002-.003" below the cylinder deck. If it is more, you can adjust deck height by changing the head or base gaskets. Please contact T-Man if you need different gaskets. If the deck height is not checked, the cranking pressure and the overall performance of the motor will be affected. If you are using a piston with a 20\* angle you will need to check the deck height by putting soft solder on the angle of the piston (hold it down with clay) and then put the head gasket and head on the cylinder. Pull the head down and turn the motor over by hand so the piston will collapse the solder. You can then remove the head and measure the solder. If you are using a .030" head gasket and the solder is .030" then your piston is at 0 deck. You can refer to our YouTube video "Deck Height and Piston Rock" where we go over this in more detail.

Please **read ring pack instructions** that are included in the ring box. It is important to make sure the rings are in the proper location and facing the correct direction. **With the total seal rings, the top ring has a small chamfer that needs to be facing UP. This may be hard to see but it is very important that it is facing up for the proper function of the rings.**