

(For kits purchased in or after October 2023)
DHM 2022 Honda Grom / Monkey 149cc Set Up Sheet

Even in stock trim, the 2022 motor runs a bit warmer than the old motor. When increasing the power the heat increases, and thus an oil cooler is required with this BBK.. Oil temps should be monitored as well.

The black, tapered ring is the top compression ring. It should be right out of the box around .012"-.013". Up to .014" is ok. Set the lower brown ring to .002" LARGER than the upper compression ring.

If you are using an aRacer ECU, please use the Quickburn for the 149cc + S1 camshaft option. Using this quickburn, you do not need to adjust the fuel base. Target AFR should be 12.6-12.7 at 80% throttle and higher, and 12.8-12.9 at throttle positions below that. Set spark angle to -3 all around.

Thoroughly clean and inspect all parts prior to install. The cylinders are packed immediately after machining so the sleeves will need to be wiped down, cleaned with alcohol or brake parts cleaner, and then lubricated with a light coat of engine oil before assembly. Piston to wall clearances have been set on the looser side with this kit. The piston is forged and therefore will expand more than a cast piston of the same size. Because of this, it's more important now to let the engine warm up before you're hard on it. Ride at a slower and less aggressive pace until the engine is warm.

- Recommended oil is 10w-40 synthetic, or 20w-50 for warmer climates.
- NGK CR9E Spark plug is required
- For pump fuel use, use the included OEM base gasket along with the new gray paper base gasket. For race fuel you can use only the OEM base gasket.
- Clean the black metal head gasket along with the cylinder and head surfaces thoroughly before install

For any questions or concerns, please email david@dhmoting.com You will receive an email reply much faster than reaching out on social media.

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Ring gaps should be set to .012" on the top ring and .014" on the lower ring. Set ring gaps approximately 1" below the top of the cylinder bore. There are two base gaskets included in the kit. The copper base gasket must always be installed. If you are running 91-93 pump fuel, you will install the paper gasket against the cylinder, then the copper gasket, and then keep the OEM base gasket between the copper gasket and crankcase. If you are on race fuel you can use either the paper and copper, or just the copper depending on your desired compression ratio.

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- Recommended oil is 10w-40 synthetic, or 20w-50 for warmer climates.
- NGK CR9E Spark plug is required
- .011" ring gap for the top silver ring, .013" ring gap for the lower black ring
- Both base gaskets on top of the OEM gasket for 91-93 pump fuel, copper gasket only or copper and one paper for race fuel
- Copper head gasket should be lightly coated in copper head gasket spray on each side, let dry before installing.

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