



04/28/2010 [CLONE CLASS RULES]

Add as Sections 722 Stock International Class Engines & 723 Super Stock International Class Engines

722. STOCK INTERNATIONAL CLASS ENGINES

These rules describe the specifications of International Class engines. All parts must be factory production parts unless otherwise specified in the manual. No machining or alteration of parts is permitted unless specifically noted. All parts are subject to be compared to known stock parts. No reading in-between the lines. If it is not in the rules, it must remain stock. UNLESS OTHERWISE STATED ENGINE WILL BE TECHED AS RACED. Additional rules may be added as IKF move forward with this program.

722.1 FUEL: Gasoline only.

722.2 CLUTCHES: Must be a shoe type clutch. Any stamped drum clutch allowed. No machined drums allowed.

722.3 FUEL TANK: Must be floor mounted. [*Delaware Speedway Local Option Rule – Not required for 2010 but a floor mounted fuel tank is STRONGLY ENCOURAGED.*]

722.4 CARBURETOR: Huayi types allowed. All Stock carburetor gaskets must be present. Choke assembly must be functioning. Choke bore must be cast.

722.4.1 VENTURI: 0.615" No-Go.

722.4.2 BACK CARB BORE: 0.751" No-Go.

722.4.3 EMULSION TUBE: Must remain stock. 0.6064" No-Go.

722.4.4 LOW SPEED IDLE JET: 0.019" No-Go.

722.4.5 MAIN JET: 0.042" No-Go

722.5 FUEL PUMP: Any pulsed type fuel pump is allowed. Fuel pump must be pulsed from the valve cover or crankcase side cover. *Any other way to pulse must be approved by the IKF Tech Official for the race weekend.

722.6 AIR FILTER: Any air filter allowed.

722.7 AIR FILTER ADAPTOR: After market air filter adaptors are allowed.

722.7.1 MAXIMUM LENGTH: 1.375"

722.8 ENGINE BLOCK: Block must remain stock.

722.8.1 BORE: Maximum bore: 2.685"

722.8.2 STROKE: Stroke is 2.133" plus or minus 0.005"

722.9 CYLINDER HEAD: No porting, grinding or modification.

722.9.1 VALVE SEATS: Valve seats have two angles. Single 4° Bottom and Single 30° top.

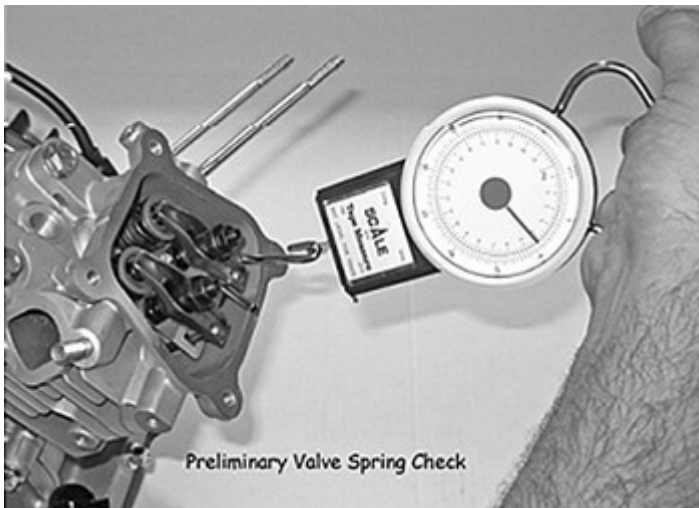
722.9.2 HEAD GASKET: Open to maintain minimum 27.5cc chamber volume.

722.9.3 COMBUSTION CHAMBER VOLUME: Minimum 27.5cc.

722.10 VALVE TRAIN: Valve train will remain stock. No Polishing. No grinding. No Alterations.

722.10.1 ROCKER ARMS: Stock 1:1 Ratio OEM rocker arms only.

722.10.2 VALVE SPRINGS: Stock Valve Springs only. Maximum wire diameter is .0705". Maximum spring pressure is 10.8 lbs. at an installed height of 0.850"



722.10.2.1 VALVE SPRING PRE RACE TECH PROCEDURE: Note- a quick field check can be performed as shown below using an inexpensive fish scale. Hook the scale under the rocker arm next to the push rod and lift until the valve opens and note the reading on the scale. If the springs appear to be much over the 10.8 lbs @ .850" spec then the springs can be removed from the head for a proper check.

722.11 CONNECTING ROD: Stock Rod only; No modifications.

722.12 CRANKSHAFT: Stock Crankshaft only; no modifications.

722.13 PISTONS AND RINGS: Stock piston and rings only.

722.14 CAMSHAFT: Camshaft must be stock.

722.14.1 Maximum running lift: on Exhaust is 0.242" taken on valve spring retainer with zero lash.

722.14.2 Maximum Exhaust lift: on cam .232" taken at the pushrod.

722.14.3 Maximum Running Lift: on Intake is 0.238" taken on valve spring retainer taken on valve spring retainer with zero lash.

722.14.4 Maximum Intake lift: on cam .225" taken at the pushrod.

722.14.5 DURATION: Duration check for Intake and Exhaust lobes (taken off pushrod). Cam lobe

base circle diameter .865" $-.005"/+.010"$. (All checks will allow +2 degrees for wear and gauge variances.)

722.14.5.1 Exhaust duration of 221.5" degrees at .050" lift/96.5 degrees at .200" lift.

722.14.5.2 Intake duration of 218.5 degrees at .050" lift/85.5 degrees at .200 lift".

722.15 FLYWHEEL AND IGNITION: Ignition must be stock. Stock Flywheel or a Billet ARC Model 6618 or 6619 allowed.

No alterations. No machining. Plastic fins must remain stock.

722.15.1 TIMING: Timing must be stock with stock flywheel key.

722.16 HEADER PIPE AND MUFFLER:

722.16.1 HEADER: Must be single stage maximum 0.750 outside Diameter, 0.635 inside diameter measurement.

722.16.1.1 Maximum length: header and muffler 14" minimum length 10".

722.16.2 MUFFLER: Must be Weiner type, part #89966. Muffler may be welded onto end of header pipe or screwed on. [*Delaware Speedway Local Option Rule – RLV 5438C pipe with RLV 4104 muffler also legal.*]

722.17 STARTER: Pull starter must be present and remain stock. Pull starter may be rotated for a better cranking angle.

722.18 OIL CATCH CAN: Engine oil recovery system required.

722.19 GOVERNOR: Governor and governor components are non-tech.