

SECTION 9 - F200 TECHNICAL SPECIFICATIONS

- 9.1 Approved, commercially available, single cylinder air-cooled overhead valve engines. 200 cc's maximum displacement. See Chart for approved engines.
- 9.2 Block, Cylinder Head, Crankshaft and Side Cover: Must be approved OEM items. Cylinder head, block and side cover external surfaces may be machined to remove excess material from mounting bosses, cast in brackets, etc that are no longer in use. No external machining allowed to enhance performance.
- 9.3 Exhaust System: See rule 8.3
- 9.4 Carburetor: Any commercially available butterfly type Tillotson HL series carb. Maximum venturi diameter = .790" Seniors and Jr III, .735" for Jr II and .635" for Jr I. Metering holes non-tech. Filter cups, adapters and air filters non-tech items. Pulse type fuel pumps permitted. Maximum throttle bores are as follows; .790" carbs = 1.010", .735" carbs = .885" and .630" carbs = .820".
- 9.5 Fuel: See rule 8.1 and 8.1.2
- 9.6 Intake manifold: Aluminum only. Maximum mean inlet tract length is 2". Length determined by adding the longest and shortest tract distances (flange to flange) together and dividing by 2.
- 9.7 Connecting Rods: Aluminum only. (Fasteners and inserts/bushings excluded) Stock length (plus or minus .010") to be maintained. See chart for specific details.
- 9.8 Pistons: Any aluminum three ring, flat top or dished piston. (No domed or pop up types) Rings and wrist pin non-tech. OEM wrist pin diameter to be maintained. See chart for maximum bore size and wrist diameter for a specific engine.
- 9.9 Crankshaft: Standard OEM item with stock stroke length (plus or minus .010"). Thermal treating and shot peening permitted. Minor grinding for camshaft clearance permitted. No other alterations allowed. See list for specific stroke details.
- 9.10 Flywheel and Ignition Coil: Aftermarket or OEM flywheels permitted. If OEM flywheel is used it must be unaltered and meet minimum listed weight and stock OEM coil (ignition system) must be used. Approved aftermarket flywheels only may be used. Spec diameter and weight as follows; 6.75" +/- .25" dia. X 4.75 lbs +/- .75 lbs. When using aftermarket flywheels, any approved OEM F200 coil may be used on any engine. (i.e. Briggs coil on a Honda, Tecumseh coil on a Kohler, etc) External coil modifications to facilitate mounting are legal. Coil mounts, flywheel key, spark plug boots and plug wires are non tech items. Approved flywheels are the ARC models 6606 and 6608 and the UMMF model FA-100 and the FS-1001.
- 9.11 Cylinder Head: Original factory casting only. Two valves maximum and must maintain original location, (listed spacing and angles). Porting and grinding permitted. No external addition of metal to enhance performance allowed. Stock spark plug size and location to be maintained. Minimum combustion chamber volume when mounted on engine @ TDC is 24 cc's using prescribed procedure as noted in rule 8.5. This is to be done after the event and when the engine has cooled down to a reasonable temperature.
- 9.12 Valve Train: Steel valves only. No titanium components allowed. Intake 1.080" maximum, exhaust is .990" maximum. Stock OEM rocker arms only. Rocker arms may be welded or reinforced for strength. No other alterations to original configuration permitted. Flat tappets only, must be stock appearing. Push rods, push rod guide plates, retainers, springs, keepers, rocker adjusters, etc, non-tech.
- 9.13 Camshaft: Maximum (actual) lift .275" measured at valve. Cam and crank gear non-tech. This is to be done after the event and when the engine has cooled down to a reasonable temperature.

- 9.14 Fasteners: Non-tech, but must remain in original location. Heli-coils, studs, etc allowed.
- 9.15 Gaskets: Non-tech.
- 9.16 Lubrication system: Must retain splash type oiling system.

Approved Engines and Specifications

Make:	Briggs	Honda	Kohler	Tecumseh	Yamaha	Notes
Model:	Intek 5.5/ Animal	GX200	C6 XKE	OHV 5.5	YF200 R1	Animal w/5.5 Intek crank allowed
Bore, Std:	2.688	2.679	2.638	2.797	2.598	Standard Bore
Bore, Max:	2.760	2.709	2.783	2.833	2.809	Maximum allowed
Increase:	0.072	0.030	0.145	0.036	0.211	Increase from std. bore
Stroke:	2.040	2.125	2.008	1.938	1.968	Standard Stroke +/- .010
Rod length:	3.375	3.303	3.425	3.484	3.324	Cntr to Cntr. Tolerance is +/- .010
Rod length:	2.514	2.358	2.540	2.703	2.459	Inside length
Wrist pin dia:	0.625	0.708	0.550	0.563	0.630	Tolerance is +/- .0025
Rod journal	1.098	1.180	1.218	0.999	1.101	Tolerance is +/- .0025
Flywheel	5.75 lbs	5.75 lbs	8.1 lbs	7.0 lbs	6.5 lbs	Approx. weight in pounds
Valve spacing	1.382	1.219	1.380	1.250	1.181	Valve angles are 90° from deck