

## 11.4 Parilla LEOPARD RL 125cc Specifications



### Preamble:

The following are the Technical Specifications for the PARILLA LEOPARD RL 125 engine, as approved by AIDKA. Unless otherwise specified, the engines must be original in all their components according to the PARILLA LEOPARD RL 125 drawings. Homologated drawings are available at [www.aidka.com.au](http://www.aidka.com.au). The engine must be Australian delivered and imported by an AIDKA authorised importer to be eligible for competition. Neither the engine or any of its ancillaries may be modified unless specifically authorised within these rules. Only Genuine IAME components that are specifically designed and supplied for the Parilla Leopard RL 125cc engine are legal, unless otherwise specified. Any removal, addition or polishing of material is strictly forbidden. Sandblasting, glass bead blasting, peening, acid etching, spark eroding and/or any other method of metal removal or displacement is not allowed. The use of thermal barrier coatings / ceramic coatings on or in the engine / engine components and on or in exhaust components is prohibited. The use of anti friction coatings on or in the engine / engine components is prohibited. OEM & Meteor pistons are exempt.

- 11.4.1 Displacement:** 123.67cm, Stroke 54.00mm. Maximum IAME piston 54.27mm.
- 11.4.2 Cylinder:** Cylinder length 89.1 +/-0.1mm. Water connections are free but must retain the homologated position and threaded sizes.
- 11.4.3 Cylinder Head:** No material to be added except for spark plug thread repair. Combustion area maybe re-machined but must retain squish band. Distance from spark plug sealing face to combustion sealing face 32.8mm +/-0.25mm. The combustion chamber shall be a minimum of 9.5cc.
- 11.4.4 Crankcase, Crankshaft and Conrod:**  
Crankcase may be repaired externally to repair damage around the clutch side area only. The crankcase maybe machined to allow the fitting of the new style ignition on the older style engines.
- 11.4.5 Piston:** Meteor aftermarket piston allowed. Maximum size 54.27. No Modifications allowed.
- 11.4.6 Clutch:** No modifications or re lining permitted.

- 11.4.7 Reed Block and Reed Valves:** Reed block and reed valves must be of the same style as the original IAME. Reed pedal thickness 0.3mm +/-0.08mm. Carbon fibre reeds are allowable.
- 11.4.8 Carburettor:** The only permissible carburettor is the TILLOTSON MODEL HL-334A, MODEL HL-334 AB or TILLOTSON HL-360A.
- 1a. TILLOTSON HL-334A & HL-334AB**  
The parallel Carburettor Venturi bore must not exceed 23.25mm at any point. It is permissible to enlarge only existing fuel/air holes, but they may not be deleted or relocated. Air filter adaptor must be OEM with no modifications.
- 1b. "B" Carburettor** may be machined to "A" specs, however any machining of the carburettor convergent entry cone and any blend radius is not permitted to be machined past the front face of the dump tube. The dump tube, whilst dimensionally free in terms of internal passages must be retained and located in its supplied position. The ball and its retaining plate must remain in place.
- 1c.** The throttle bore size has a maximum of 25.5mm. No sleeving of the throttle bore is permitted.
- 2a. TILLOTSON HL-360A**  
**2b.** No modifications to carburettor venturi allowable. It is permissible to enlarge only existing fuel/air holes, but they may not be deleted or relocated. Air filter adaptor must be either PRD Part Number #PRD0109 unmodified or OEM with the inlet diameter of the adapter machined parallel to a maximum bore size of 34.50mm allowable.
- 3.** Non-Technical items will include, extension to existing low jet, plastic carburetor top, conical cable return spring and cable support bracket.
- 11.4.9 Filter:** The air filter/air box is a non-tech item.
- 11.4.10 Ignition:** Both the Selettra 4 pole and IAME S.P.A Selettra Digital –K Ignition Systems are allowable. Woodruff Key must be retained and no modifying permitted. The loom plastic electrical fittings may be replaced with non-genuine fittings. All stator mounting hardware must be as per OEM.
- 11.4.11 Muffler:** The only permissible exhausts allowed are those that conform to the drawings in the homologation papers or the PRD "Bubble Pipe". Original header pipe supplied with engine must be used. It is permissible to fit an exhaust flange support bracket to the original header pipe. Any such support must not exceed 60mm in length and 40mm width.
- 11.4.12 Cooling System:** Allowable radiators are the IAME X30 or RL Version, PRD 350x200mm or PRD 400x235mm Version, Rotax FR125 Max
- 11.4.14 Non-Tech:** Unless specified, non-tech items are to be of the same type and style as the original. No alteration from the original manufacturers specifications is permitted to fit a non-tech item. Non-tech items for the Parilla Leopard RL engine include;  
Air filter / Airbox, Clutch sprocket, Chain Guard (TT Style plastic permitted), Gaskets, Seals, Big & Little End Roller Cages, Fasteners, Washers, Spark Plug, Spark Plug Lead, Spark Plug Cap, Main Bearings, Water Hoses, Hose Clamps, Water Pump, Axle O-Ring, Axle Pulley, Thermostat, Exhaust Flex, Battery, Starter Motor, Carburettor gasket / diaphragm repair kit including needle and seat, plastic fittings on the electrical looms for the ignition and starter assembly.