

ENGINE			
Manufacturer	IAMEs.p.a.	Category	
Make	PARILLA	Homologation Period	
Model, Type	Leopard X30 125cc RL - TaG - AUS	Pages	16

This homologation sheet reproduces description, illustrations and dimensions of the engine at the time of the AKA Homologation. All motors must be manufactured within these dimensions

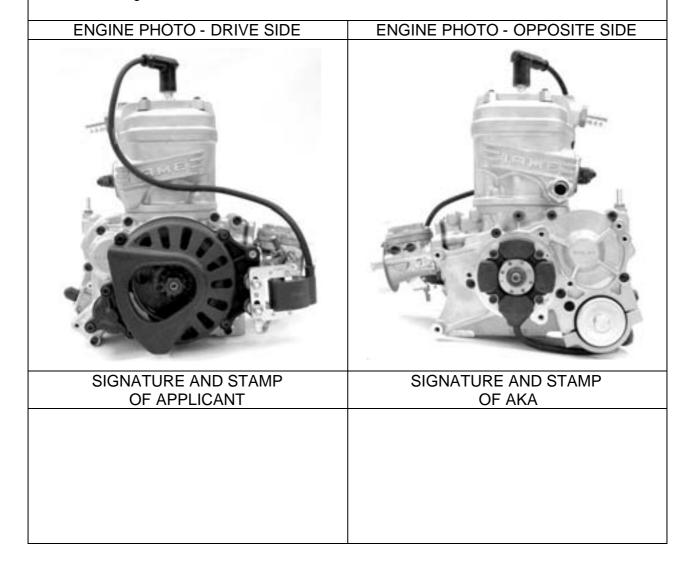


PHOTO OF THE ENGINE FROM THE BACK



PHOTO OF THE ENGINE FROM ABOVE

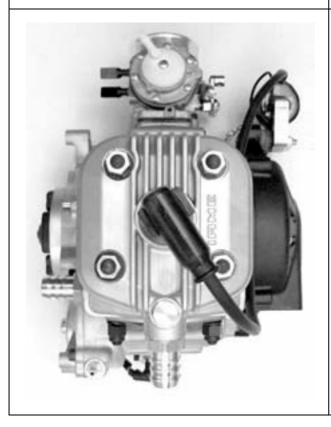
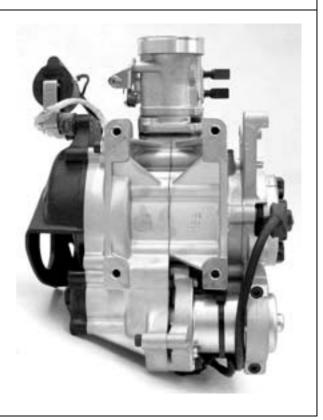


PHOTO OF THE ENGINE FROM THE FRONT



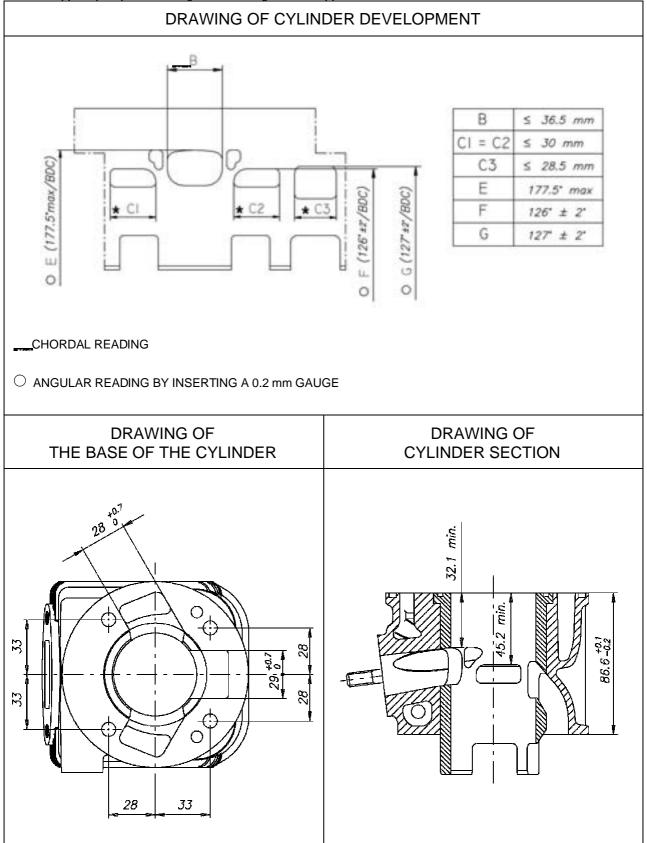
PHOTO OF THE ENGINE FROM BELOW



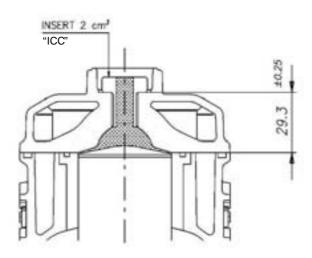
must be applied for after Homologation and Registration approvals TECHNICAL INFORMATION			
A - Characteristics		C - Materials	
Cylinder volume	123.67 cm ³	Cylinder wall	Iron
Bore	54 mm	Cylinder	Aluminium
Theoretical max. bore	54.28 mm	Cylinder head	Aluminium
Stroke	54 mm	Crankcase / sump	Aluminium
Cooling system	Water	Connecting rod	Steel
Air admission system	Reed valve		
N° of carburation systems	1	<u>D - Tolerances</u>	
N° of transfer ports in the cylinder	3	Opening angles (+/- 2 degrees)	
N° of exhaust ports	3	Combustion chamber volume [+/- 0.5cc]	
Shape of combustion chamber	Spherical	Angles [+/- 2 degrees]	
Volume of the combustion chamber	10.2 cm ³ ±0.5 (WITH "CIK" INSERT)	Stroke [+/- 0.1mm]	
Length between of the axis of connecting rod	102 mm	Length between axis of connecting rod [+/-0.1mm]	
Ignition make	Selettra or PVL	<u>Dimensions on</u> <u>machined surfaces</u>	
Ignition model	Digital (REV. LIMIT 16000 RPM)	< 25mm [+/- 0.5mm]	
		25-60mm [+/- 0.8mm]	
B – Opening angles		> 60mm [+/- 1.5mm]	
Inlet		Dimensions on rough cast surface	
Transfer	126°± 2° TT=127°± 2°	< 25mm [+/- 1mm]	
Exhaust	177.5° max	25-60mm [+/- 1.5mm]	
Inlet opens before TDC		> 60mm [+/- 3mm]	

Inlet closes before LDC

must be applied for after Homologation and Registration approvals			
TECHNICAL INFORMATION			
E – piston		EXHAUST AND INLET TIMING READING LINES	
N° of piston rings	1	NOTE : Indicate in the diagram the type of ring on the piston	
Overall length	62.8 mm ±0.2	21	
Radius of crown	61.5 mm	H88	
Crown to pin	33.8 mm ±0.2	Ring incl.	
Skirt to pin	29 mm ±0.2	33.8	
F – Piston Pin		7 53 #	
material	Steel		
Length	44 mm ±0.2	27 ~	
Inside diameter	Ø9 mm ^{+0.25}	Min. weight with ring= 128 g	
Outside diameter	Ø14 mm		
		CARBURETOR LOCATION	
G - Gaskets		NOTE : Distance from the cylinder centre may include an eventual spacer located before the	
Barrel gasket material	Paper	carburettor	
Minimum thickness	0.30 mm		
Maximum thickness	0.45 mm		
Cylinder head gasket material			
Minimum thickness			
Maximum thickness			



DRAWING OF THE COMBUSTION CHAMBER AND CYLINDERHEAD

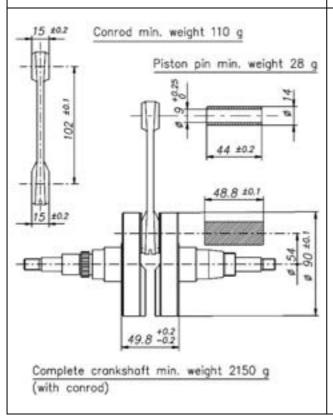


COMBUSTION CHAMBER VOLUME = 10.2 cm³ ±0.5 (WITH "ICC" INSERT: 8.2 + 2 cm³)

ATT.: SQUISH MIN. = 0.90 mm

DRAWING OF THE CRANKSHAFT

DRAWING OF THE INTERIOR OF THE SUMP



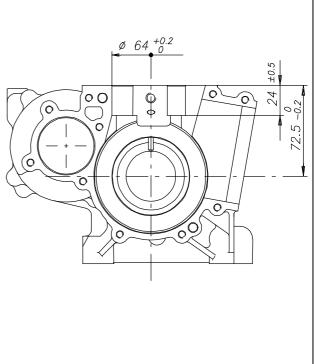


PHOTO OF THE BASE OF THE CYLINDER

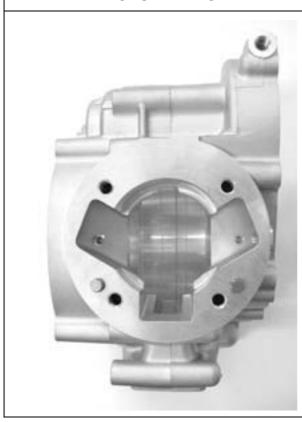
PHOTO OF THE COMBUSTION CHAMBER





PHOTO OF CRANKCASE
- GASKET FACE

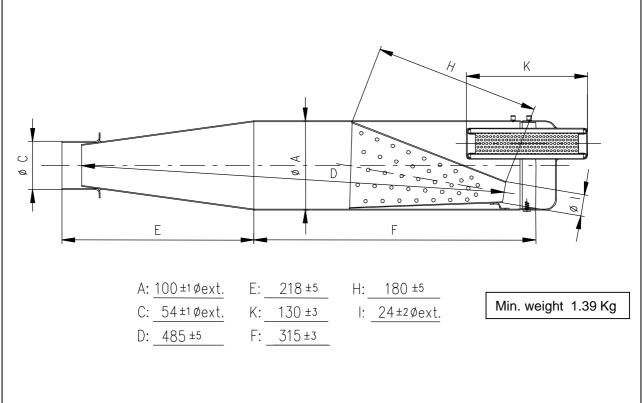
PHOTO OF CRANKCASE
- INTERIOR (HORIZONTAL VIEW)

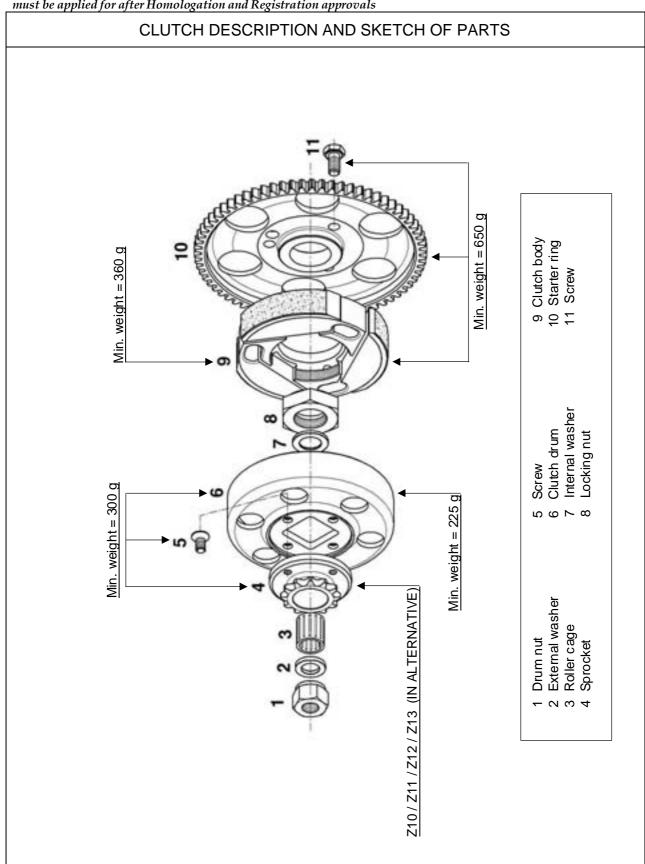




Note: Registration does not imply or guarantee use in a class or classes. Application for use in a class or classes

must be applied for after Homologation and Registration approvals VENTURI CARB. DIMENSIONS **INLET SILENCER** N'2x #22 ±1 Tryton Hobby 27/C 101 \$28 218 71±0.5 Reed petals min. thicknees = 0.30 mm Material: Vetronite 130 70 DRAWING OF EXHAUST SILENCER AND COMPONENTS



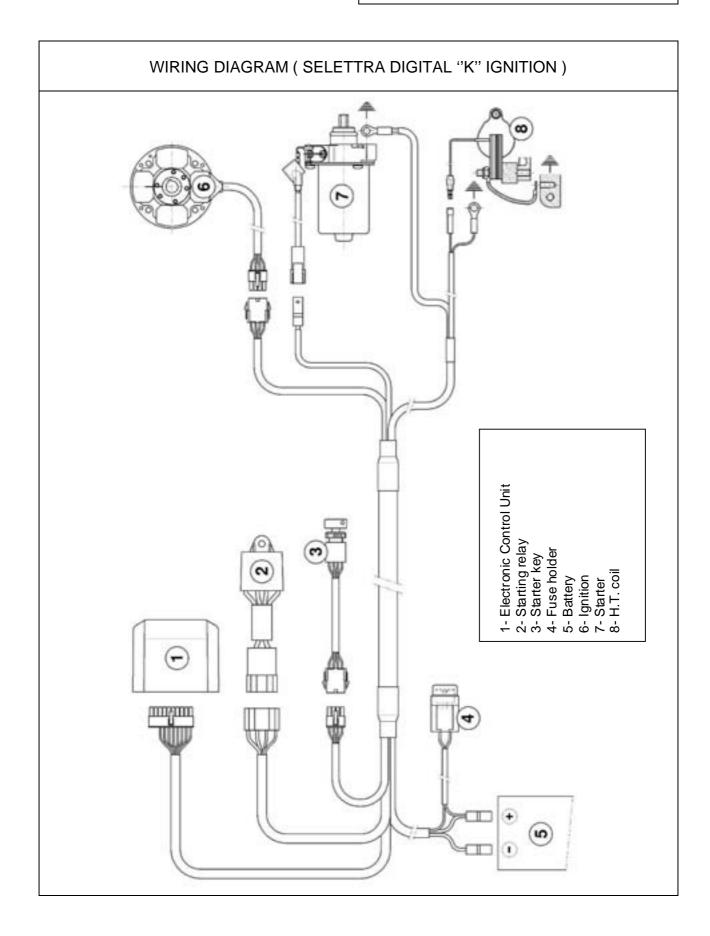


RADIATOR DESCRIPTION AND SKETCH OF PARTS 186 30

INLET PORT CHORD WIDTH			
Either A1 or A2			
The maximum chord width is	The maximum chord width is		
Formula for A1 = D x π x 0.223 + B	Formula for A2 = D x π x 0.223		
EXHAUST PORT CHORD WIDTH Either C1 or C2			
Formula for C1 = D x π x 0.223 + E	Formula for C2 = D x π x 0.223		

77 7	GEARBOX
Manufacturer	
Make	
Model , Type	
Primary coupling	

	Primary shaft	Secondary shaft	Degree reading obtained after 3 turns of the engine
1 st gear			
2 nd gear			
3 rd gear			
4 th gear			
5 th gear			
6 th gear			



ELECTRONIC BOX MARKING



WIRING DIAGRAM (PVL DIGITAL IGNITION) 1- Electronic Control Unit 2- Starting relay 3- Starter key 4- Fuse holder 5- Battery 6- Ignition 7- Starter 8- H.T. coil 20

CRANKSHAFT REF. NOTCH GEARS TIMING COMMAND BALANCING SHAFT REF. NOTCH GEARS REF. MARKINGS

BALANCING SHAFT

