INTERNATIONAL KART FEDERATION

Manufacturer Address
PRD TAIWAN
6F, No16 Nanking East Road, Section 5,Taipei TW

Engine #
INTERNATIONAL KART FEDERATION

Manufacturer :	***PRO RACING DESIGN***
Make:	PRD
Model :	FIREBALL RK125WC.07-08
Inlet type:	REED
Number of pages	

PICTURE OF ENGINE

(insert picture of front/left here)

(insert picture of back/right here)

Signature and Stamp

Importer	**RLV Tuned Exhaust Products Incorporated**

Engine Specification Sheet

INTERNATIONAL KART FEDERATION

TECHNICAL INFORMATION

A	**CHARACTERISTICS**	
	Measurement	Tolerances
Volume of cylinder	**122.25 cc**	**125 cc**
Original bore	**53.60 mm**	
Theoretical maximum bore	**54.25 mm**	
Stroke	**54 mm**	
Cooling system	**WATER COOLED**	
Number of carburation systems	**Tillotson (HL-360A) ONE ONLY**	
Number of transfer ports / ducts, cylinder / sump	**3**	
Number of exhaust ports / ducts	**3**	
Shape of the combustion chamber	**SPHERICAL WITH SQUISH**	
Length between axes of the connecting rod	**100 mm**	
Minimum weight of connecting rod	**120 g +/- 2 g**	
Volume of combustion chamber	**10cc min, Assembled w/o LAD tool**	
Type of bearings and size	***Example 6205** type* Big End of Con. Rod Bearing = ***18 X 24 X 14.8*** Little End of Con. Rod Bearing = ***14 X 18 X 17.2*** Crankshaft Bearing = ***25 X 52 X 15***	

B	**OPENING ANGLES**	
Exhaust	*174 MAX*	
Of exhaust ports / ducts	174 MAX	

C	**LIST OF ACCESSORIES INCLUDED**
(List accessories as shown below)	*Centrifugal clutch*
Carburetor with butterfly ∅27	
Electric starter	
Exhaust with flex	

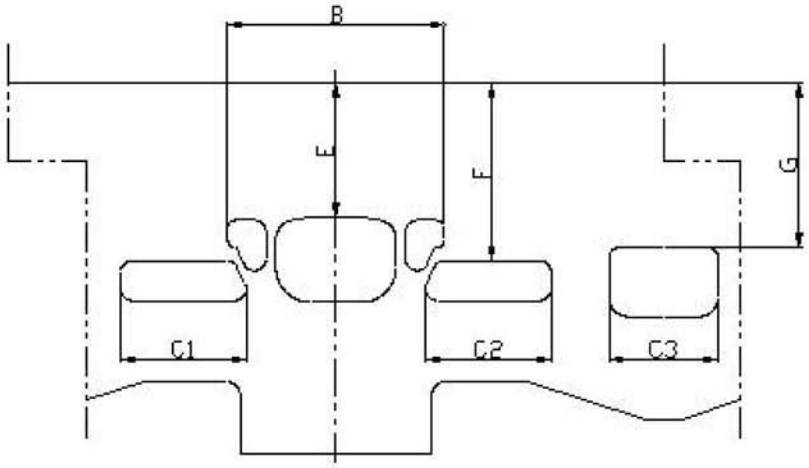
D	**MATERIAL**
Cylinder	**Alloy**
Connecting rod	*STEEL*
Crankshaft	*STEEL*
Head	ALLOY
Liner	CAST IRON
Crankcase	ALLOY
Piston	ALLOY
Piston Ring	CAST IRON CHROME PLATED

INTERNATIONAL KART FEDERATION

DRAWING OF THE CYLINDER DEVELOPMENT

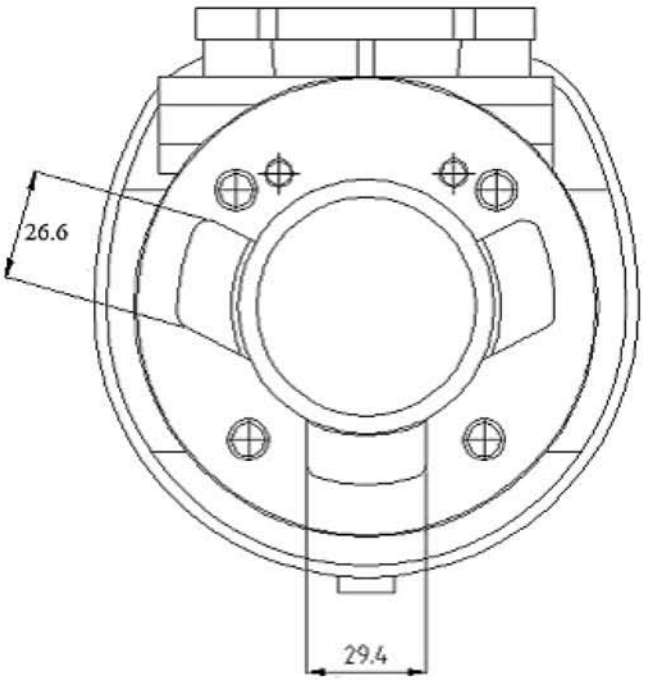
(Insert drawing here)

Chord reading	
B	65.3
C1=C2	26
C3	29.4
Angular reading by inserting a 0.2mm gauge	
E	33.8 min
F	44
G	43.5



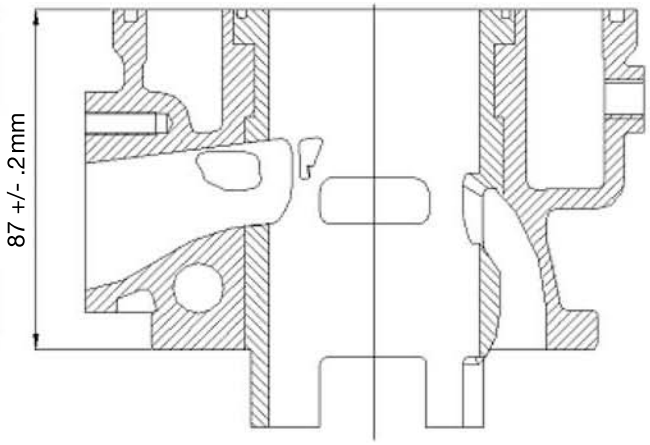
DRAWING OF THE CYLINDER BASE

(Insert drawing here)



CYLINDER SECTION VIEW

(Insert drawing here)

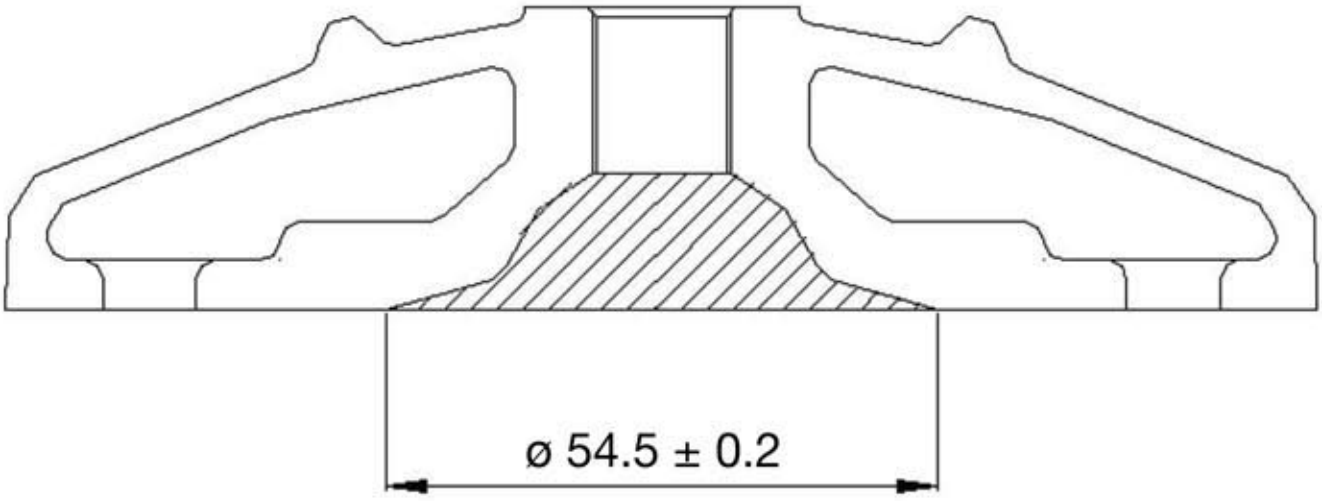


Engine Specification Sheet

INTERNATIONAL KART FEDERATION

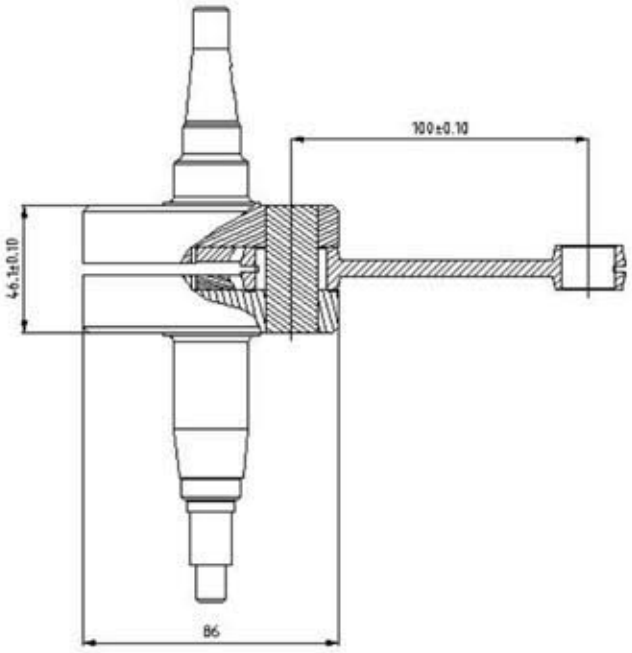
DRAWING OF THE CYLINDER HEAD AND THE COMBUSTION CHAMBER

(Insert drawing here)



DRAWING OF THE CRANKSHAFT

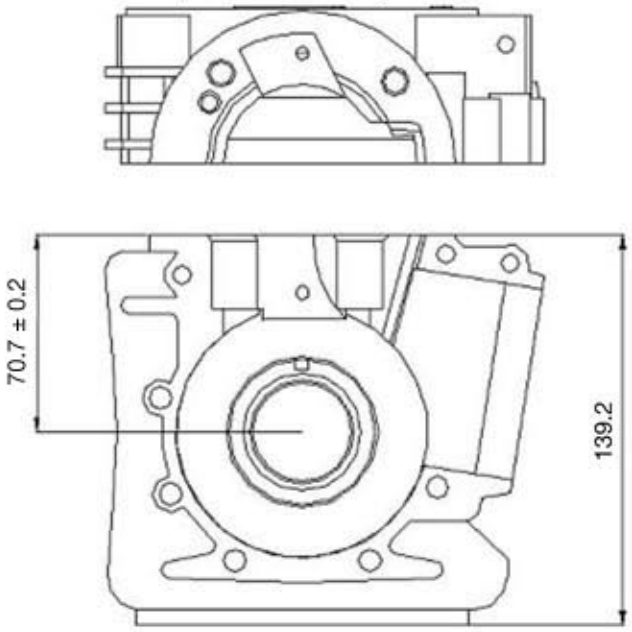
(Insert drawing here)



Complete weight = **1900 GRMS +/- 25 GRMS**

DRAWING OF THE INSIDE OF SUMP

(Insert drawing here)



Engine Specification Sheet

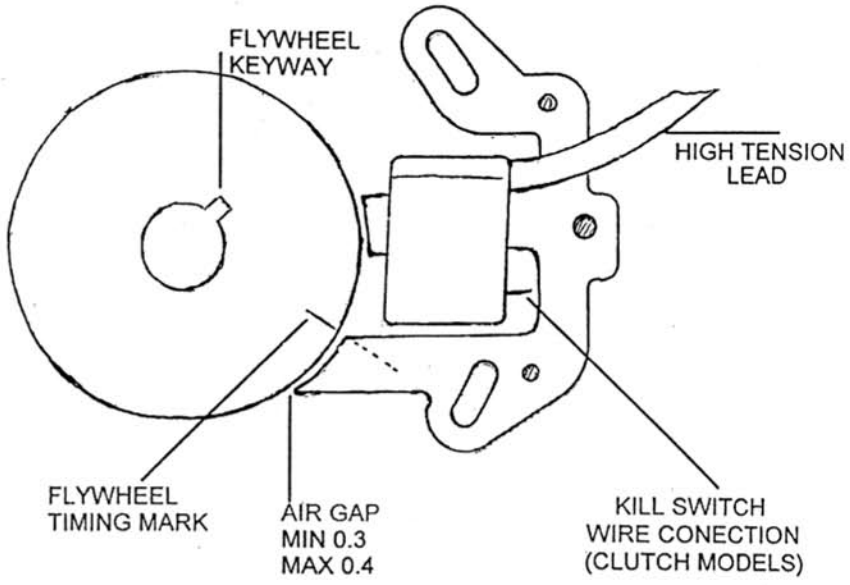
INTERNATIONAL KART FEDERATION

IGNITION	
Manufacturer	**OPPAMA**
Model Number	**PRD/OPPAMA/2004 -**
Rotation	**A/CLOCKWISE**
Description	**CDI**
PHOTO OF IGNITION	**PHOTO OF COIL**
(insert photo of inside here)  OPPAMA ROTOR	*(Insert photo here)*  OPPAMA COIL
NOTE: Above is rear of rotor. Front is shown on view of complete engine	

PRD / OPPAMA IGNITION COIL

1/ INSERT DIAL GAUGE AND SET TO T.D.C
2/ TURN FLYWHEEL CLOCKWISE UNTIL MARK LINES UP WITH LAMINATION
3/ CHECK TIMING ON DIAL INDICATOR
4/ ADJUST TIMEING BY MOVING COIL UP OR DOWN

NOTE: IT IS RECOMMENDED TO SET TIMING ON PRD ENGINES AT 2.2 B.T.D.C



(THIS IGNITION DOES NOT REQUIRE AN EXTERNAL MODULE)

INTAKE	
Manufacturer	
Model Number	
Rotation	
Description	

PHOTO OF REED ASSEMBLY	PHOTO OF REED PETAL
(insert photo of inside here) 	*(Insert photo here)*  **Minimum Thickness .010”**
(insert photo of outside here) 	

Engine Specification Sheet

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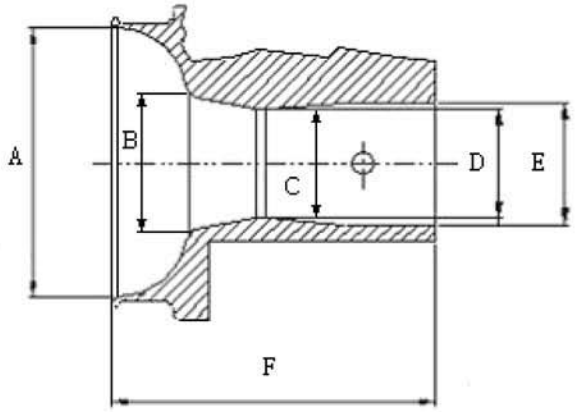
CARBURETOR DIMENSION

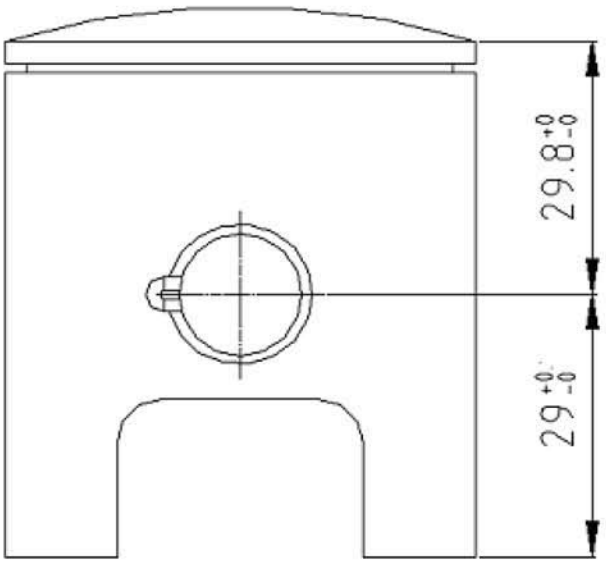
(Insert drawing here)

Item	Measure	Tolerance
A	33.75mm	±0.20mm
B	----------	----------
C	24mm	±0.10mm
D	24mm	±0.10mm
E	27mm	±0.10mm
F	66.25mm	±0.10mm



PISTON

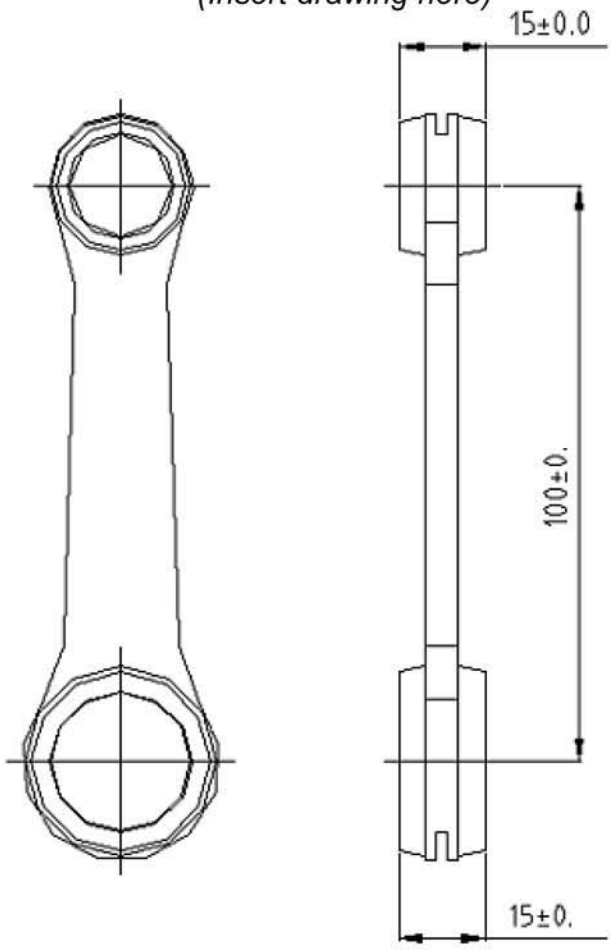
(Insert drawing here)



Weight= 135

CONNECTING ROD

(Insert drawing here)



Weight= 120 +/- 2 gm

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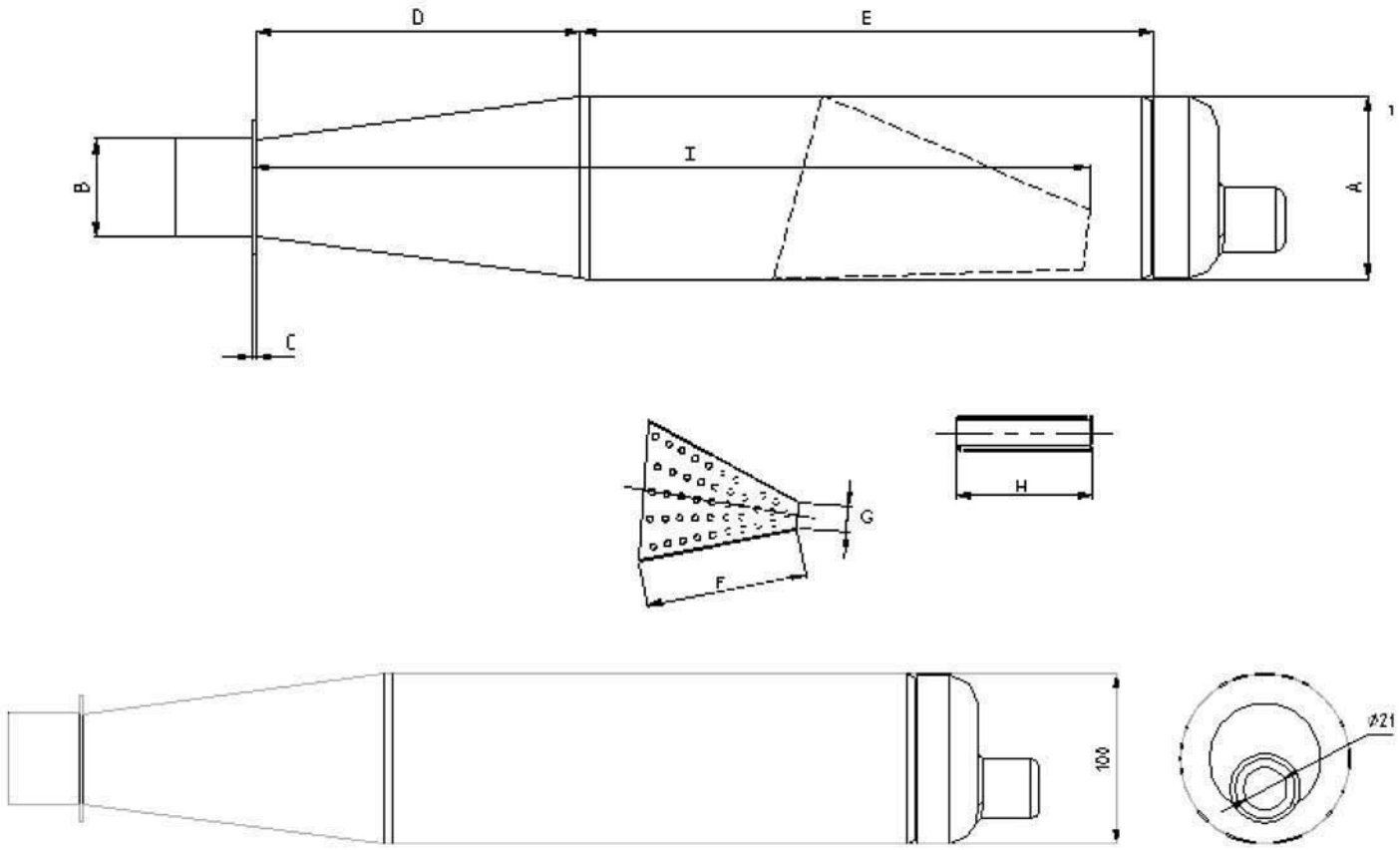
DRAWING OF THE SILENCER AND IT'S COMPONENTS

(Insert drawing here)



The end parts of the silencer must have two soldered pairs of lugs (one pair at the top and one pair at the bottom) to allow for fixing of seals by the Organizer so that the silencer may be opened during the compeition	TOLERANCES Rough dimensions up to 25mm: ±1mm from to 25–60mm: ±1.5mm more than 60mm: ± 3mm	Measurements: A: **100mm** B: **54mm** C: **2mm** D: **170mm** E: **315mm** F: **170mm** G: **21mm** H: **135mm** I: **460mm**

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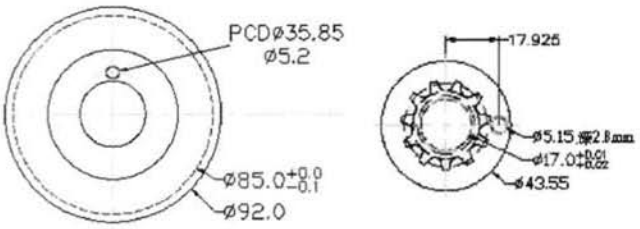
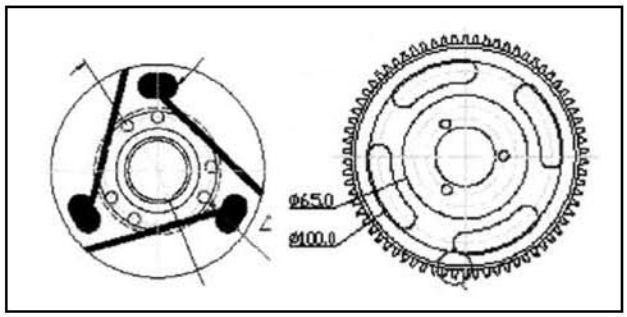
DRAWING OF THE CLUTCH

PRD ONE PIECE CLUTCH





820 grams minimum including bolts