

Manufacturer	Pro Racing Design Co Ltd
Make	PRD
Model	GALAXY
Validity of the homologation	6 years
Number of pages	27

This Homologation Form reproduces descriptions, illustrations and dimensions of the engine at the time that Karting Australia conducted the homologation. The height of the complete engine on all photographs must be as a minimum 7 cm.







PHOTO OF OPPOSITE SIDE OF ENGINE

Signature and stamp of AIDKA



PHOTO OF DRIVE SIDE OF THE COMPLETE ENGINE





PHOTO OF OPPOSITE DRIVE SIDE OF THE COMPLETE ENGINE





PHOTO OF THE REAR OF THE COMPLETE ENGINE





PHOTO OF THE FRONT OF THE COMPLETE ENGINE





PHOTO OF THE COMPLETE ENGINE TAKEN FROM ABOVE





PHOTO OF THE COMPLETE ENGINE TAKEN FROM BELOW





TECHNICAL INFORMATION

A CHARACTERIS	STICS	
The number of decimal places must be 2 or comply with the relevant tolerand	ce. Tolera	nces & remarks
Cylinder		
Volume of cylinder	123.15cm ³	<125cm ³
Original bore	53.90mm	
Theoritical maximum bore	54.40mm	T
Original Stroke	<u>54mm</u>	
Number of transfer ducts, cylinder/sump	3/3	
Number of exhaust ports / ducts	3	-
Volume of the combustion chamber	10.5cm ³	minimum
;		-
Crankshaft		
Number of bearings	2	
Diameter of bearings	25	□0.1mm
Minimum weight of crankshaft assembly	1880g	minimum
All parts represented on page 17 photo		
Exhaust Restrictor		
Restrictor for TaG Restricted class's	KA-G1 24.95mm	Max
Connecting rod		
Connecting rod centreline	100mm	□0.2mm
Diameter of big end	18mm	□0.05mm
Diameter of small end	14mm	□0.05mm
Min. weight of the connecting rod	118g	minimum



Piston		
Number of piston rings	1	
Min. weight of the bare piston	<u>130g</u>	minimum
Gudgeon pin		
Diameter	<u>14mm</u>	□0.05mm
Length	<u>44mm</u>	□0.15mm
Minimum weight	<u>24q</u>	Minimum
Clutch		
Minimum weight	<u>1050g</u>	minimum
Of all the parts represented on the page 21 technical drawing		

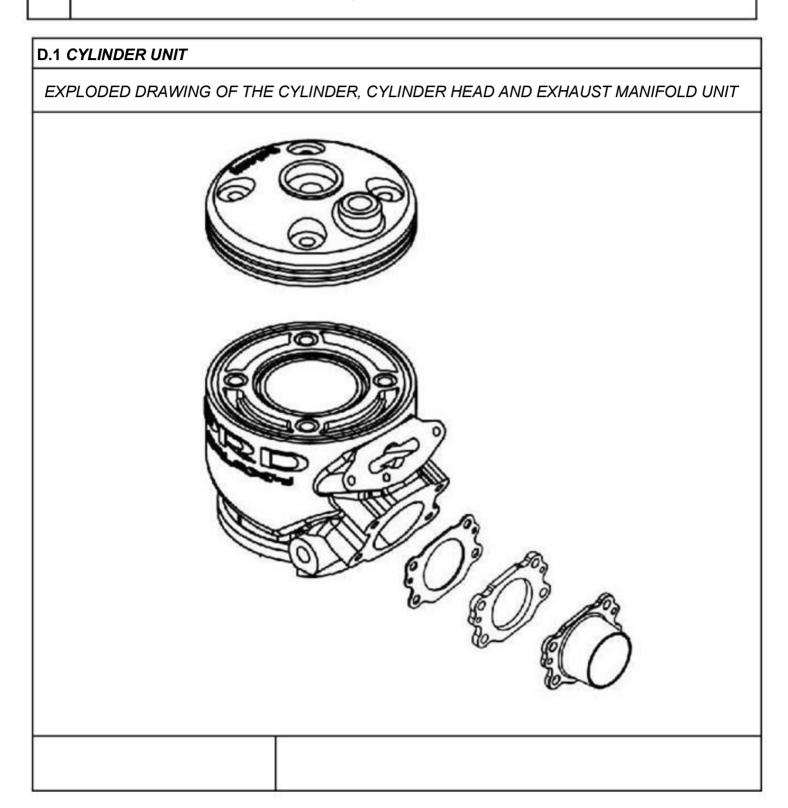
В	OPENING A	NGLES	
Of the	the inlet (main transfer ports)		
Of the exhaust		<u>191°</u>	□ 2 °
Of the	e exhaust ears	<u>184°</u>	□ 2 °
Of the	boosters	<u>127.5°</u>	□2°

С	MATERIAL	
Cylind	der head	ALLOY
Cylind	der	ALLOY
Cylind	der wall	CAST IRON
Sump		ALLOY
Crank	shaft	IRON
Conne	ecting rod	STEEL
Pistor	1	ALLOY

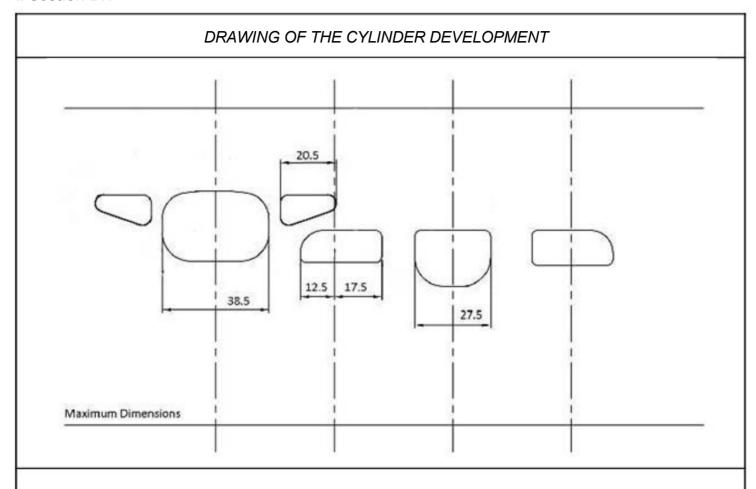


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PHOTOS, DRAWINGS & GRAPHS

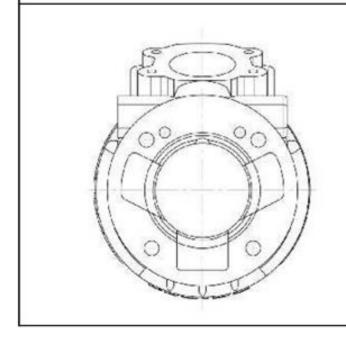






DRAWING OF THE CYLINDER BASE without dimensions

PHOTO OF THE CYLINDER BASE







DRAWING OF THE CYLINDER HEAD AND OF THE COMBUSTION CHAMBER without dimensions

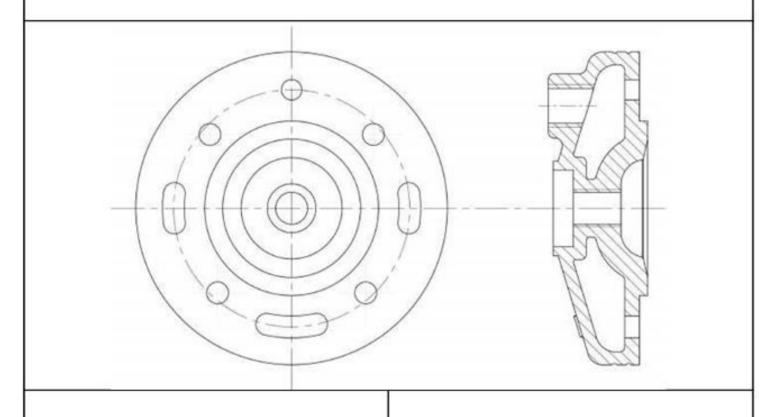


PHOTO OF THE CYLINDER HEAD

PHOTO OF THE COMBUSTION CHAMBER IN THE CYLINDER HEAD







VERTICAL CROSS SECTION VIEW OF CYLINDER WITH LINER, without dimensions

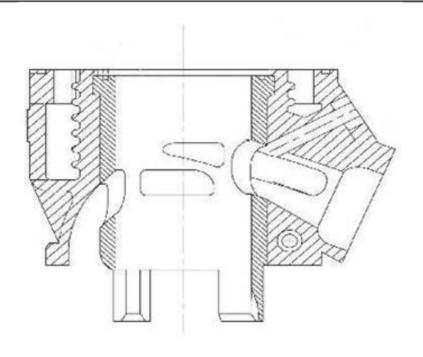


PHOTO OF THE CYLINDER FROM ABOVE

PHOTO OF THE CYLINDER FROM RH SIDE







TRANSFER DUCTS VOLUME			
	Transfer position on 3-transfer cylinder	TRANSFER No.	VOLUME in cm³
		Transfer No. 1 LH	18.50 +/- 5 %
	A COMPONE	Transfer No. 2 LH	18.50 +/- <i>5</i> %
	CH 1 RH 1	Transfer No. 3 or 5	12.80 +/- 8 %
	- Factor		

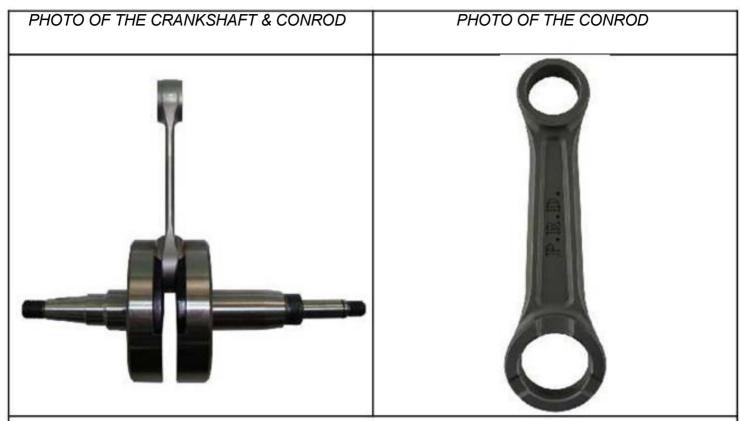
ANGLE □ in °	Minimum <i>in</i> mm
68° +/-1°	49.64 mm +/-1.00
/	

- A: Centring guide centred in relation to the exhaust duct by the exhaust manifold fixation screws, with a total thickness of 20 +/- 0.05 mm and being drilled in its centre by a hole with a 5 mm diameter, H7 bore.
- B: Control gauge composed of a shaft with a 5g6 diameter having a 2.5 mm radius at its end and a length = L min + 20+10.

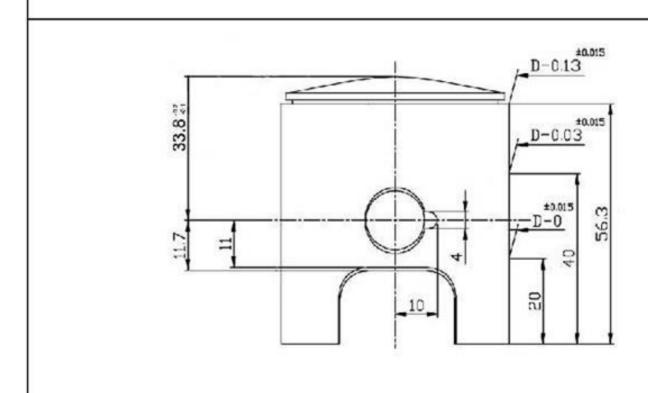


D.2 CONROD, CRANKCASE, CRANKSHAFT & PISTON EXPLODED DRAWING OF THE PISTON, CRANKSHAFT, CONNECTING ROD AND CRANKCASES UNIT (exploded crankshaft)





DRAWING OF THE PISTON (MAIN DIMENSIONS incl. tolerances)



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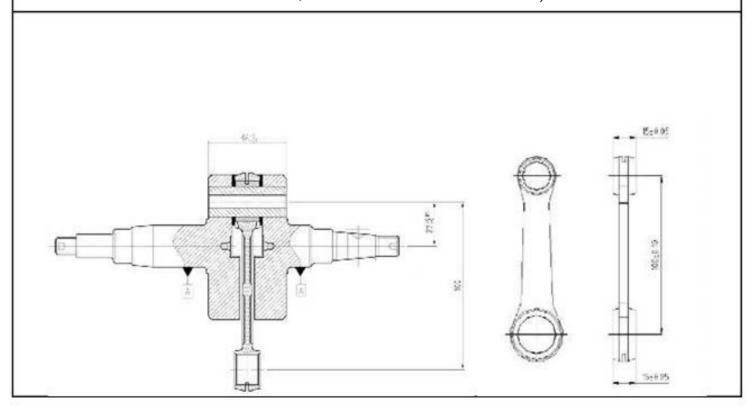
PHOTO OF THE INSIDE OF THE RH CRANKCASE

PHOTO OF THE INSIDE OF THE LH CRANKCASE

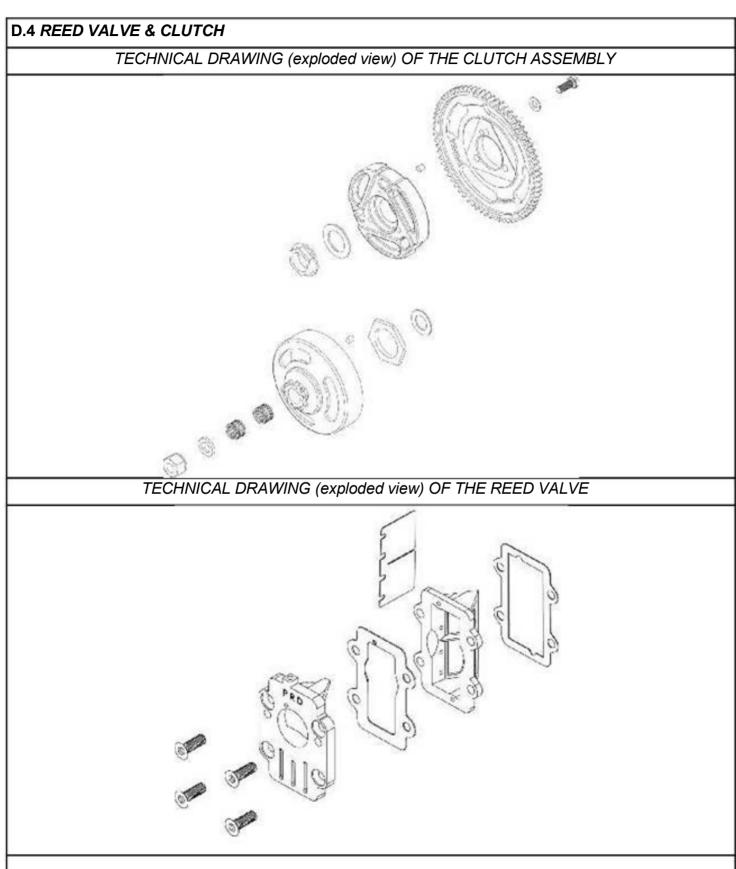




DRAWING OF THE CRANKSHAFT - CON ROD UNIT (DIMENSIONS incl. tolerances, big & small ends thickness, crank mass thickness & diameter)

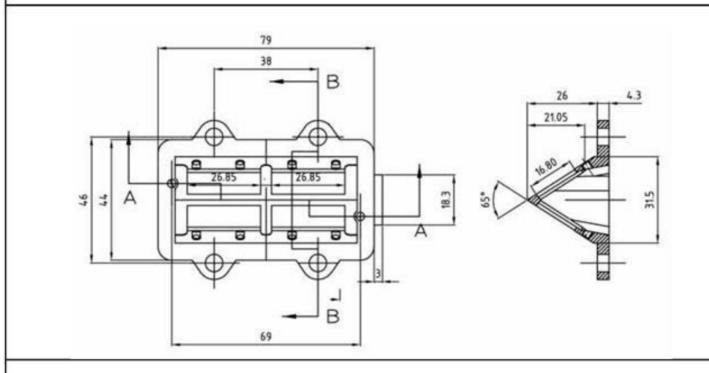




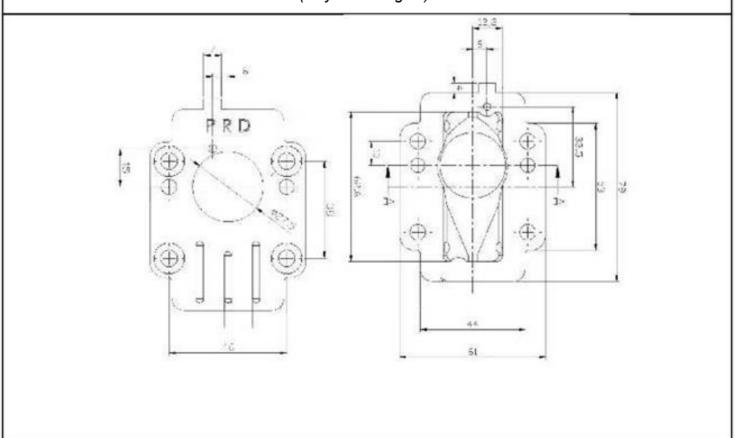




DRAWING OF THE REED VALVE (DIMENSIONS incl. tolerances)



DRAWING OF THE REED VALVE COVER (only basic engine)





D.5 EXHAUST SYSTEM

PHOTO OF THE EXHAUST MANIFOLD

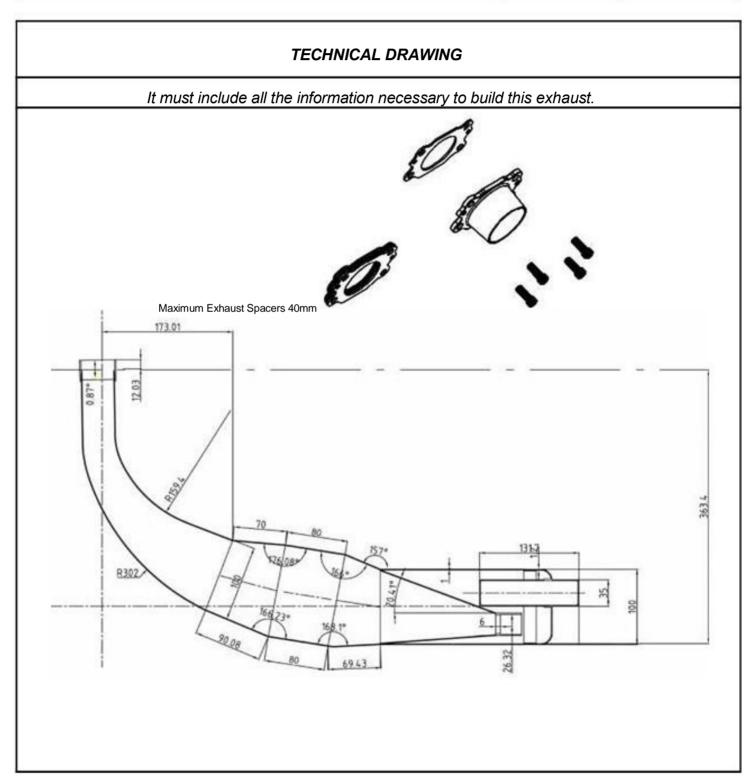


PHOTO OF THE EXHAUST



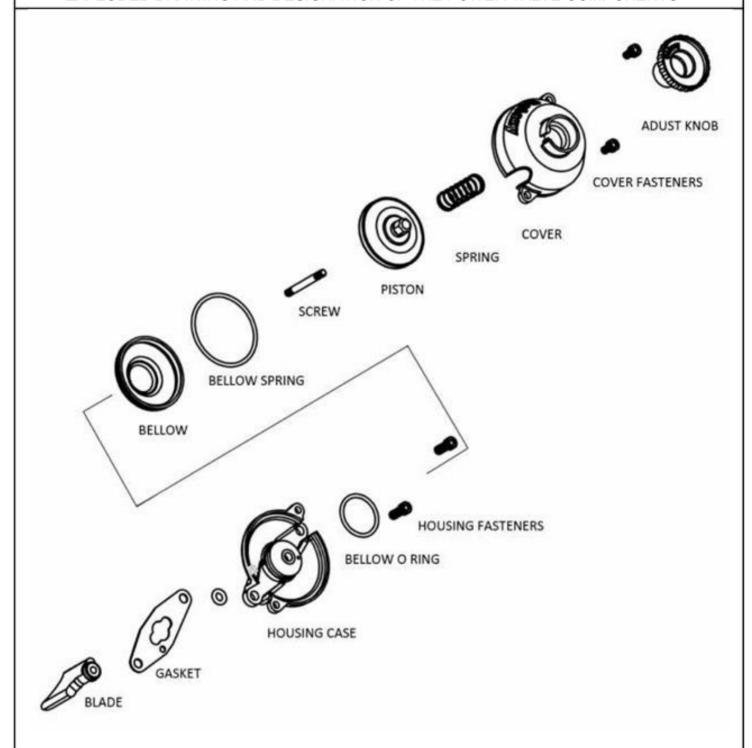


Section D.5		
TECHNICAL DESCRIP	TIONS	
OF THE EXHAUST (Art. 8.9.3	of HR)	
	T	Ť ·
Weight in g	2280	Minimum
Volume in cc	4150	+/-5 %





EXPLODED DRAWING AND DESIGNATION OF THE POWER VALVE COMPONENTS



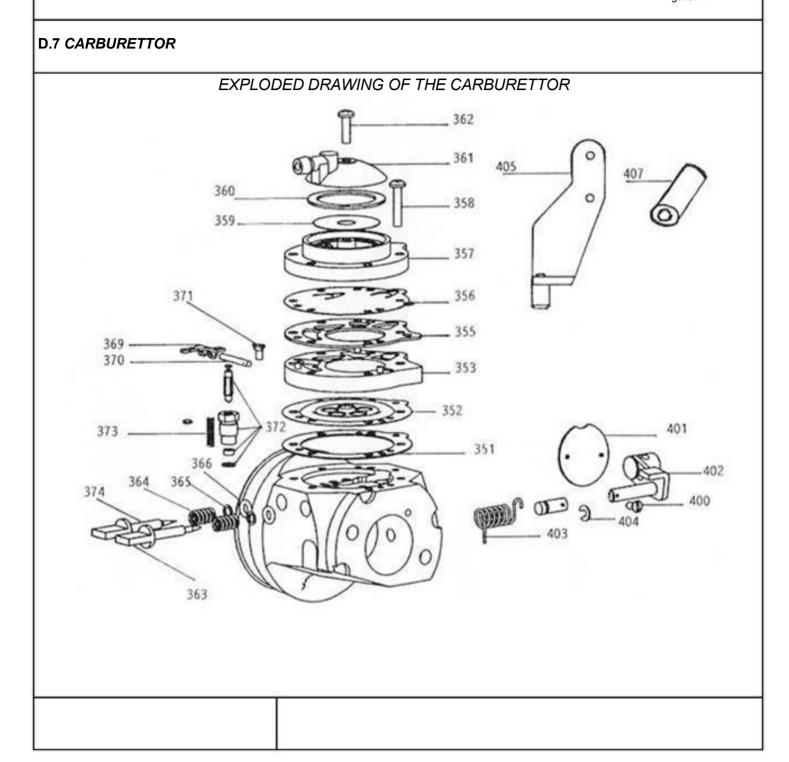
The aim of the exploded drawings is to identify the principles, the functioning and the whole mechanical unit



D.6 STARTER EXPLODED DRAWING OF THE STARTING UNIT AND OF ITS HOUSING



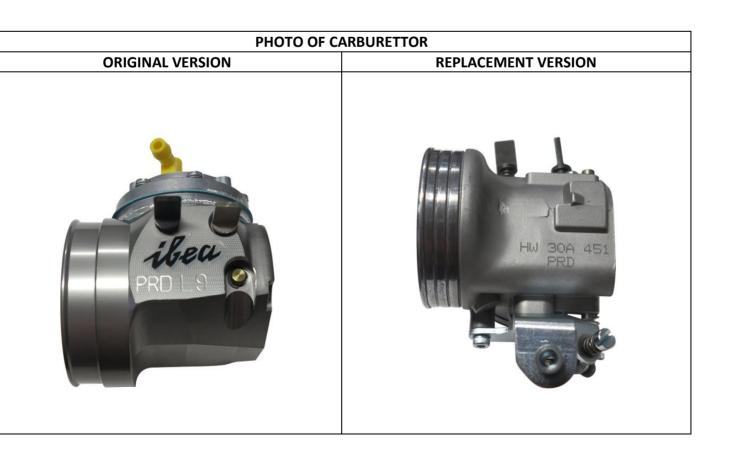
o gation N°



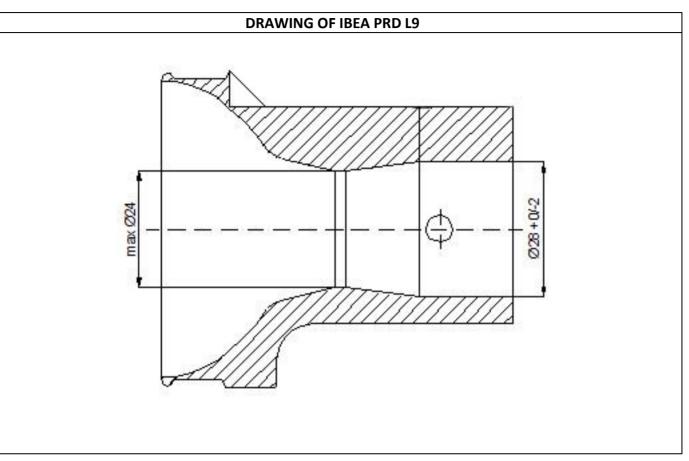


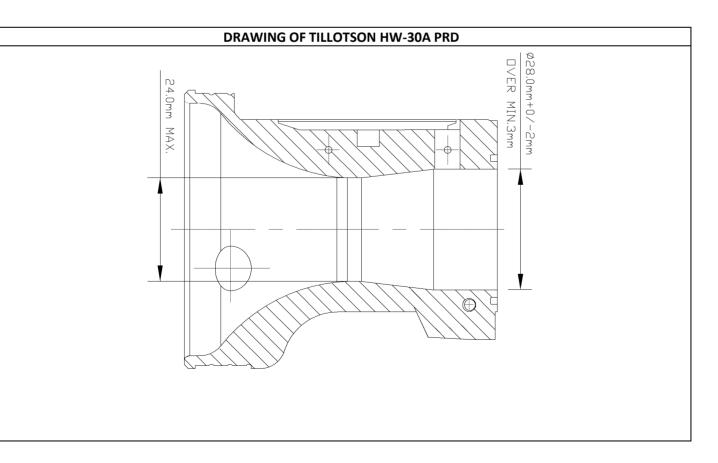
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PHOTO OF CARBURETTOR		
ORIGINAL VERSION	REPLACEMENT VERSION	











D.8 ELECTRICAL SYSTEM

IGNITION SYSTEM

ADVANCE CURVE GRAPHS

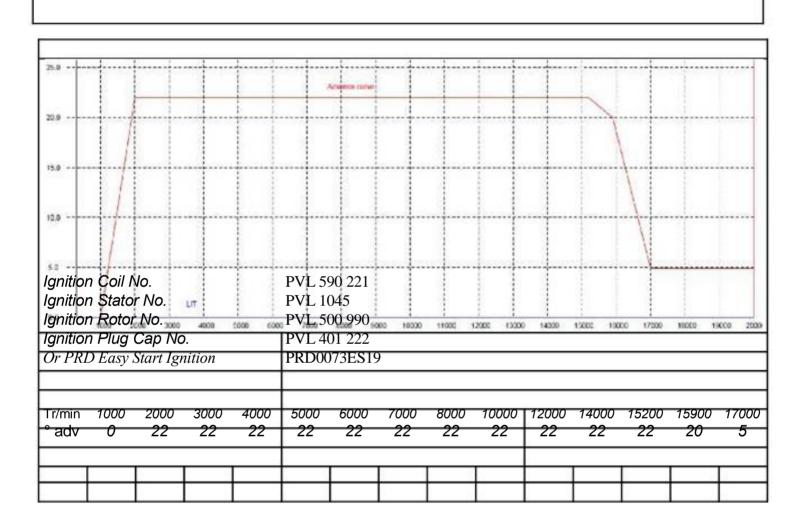




PHOTO OF THE RADIATOR



DRAWING OF THE RADIATOR (include dimension)

