

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

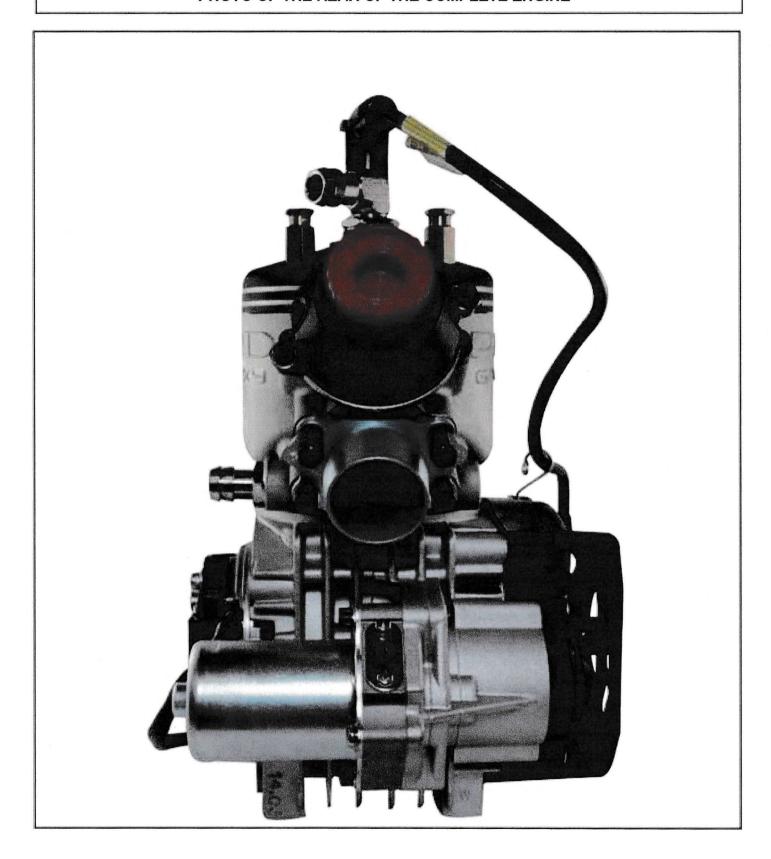




PHOTO OF THE FRONT OF THE COMPLETE ENGINE

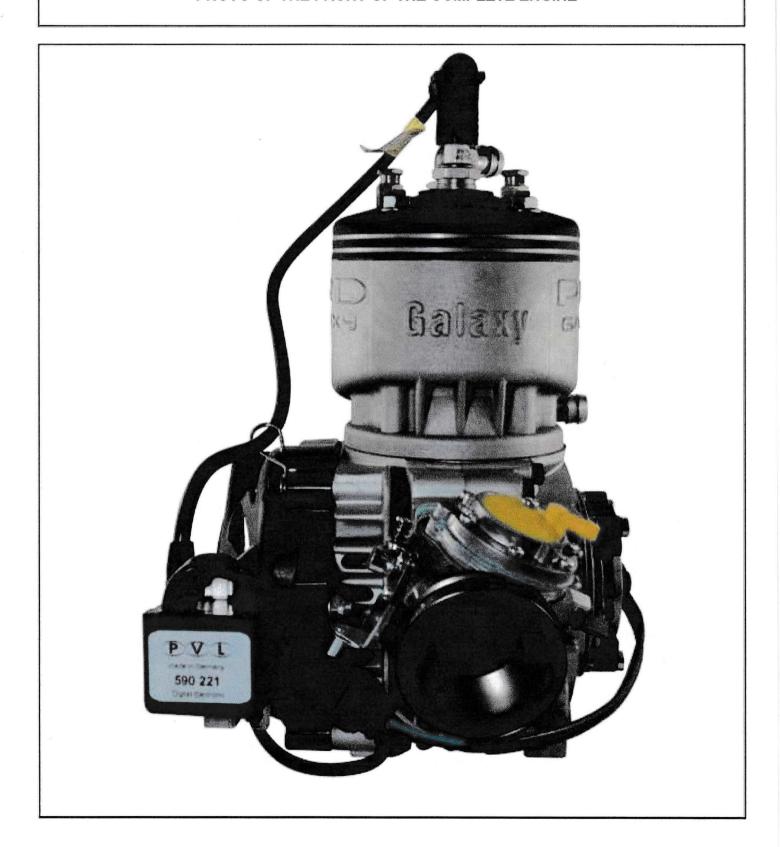


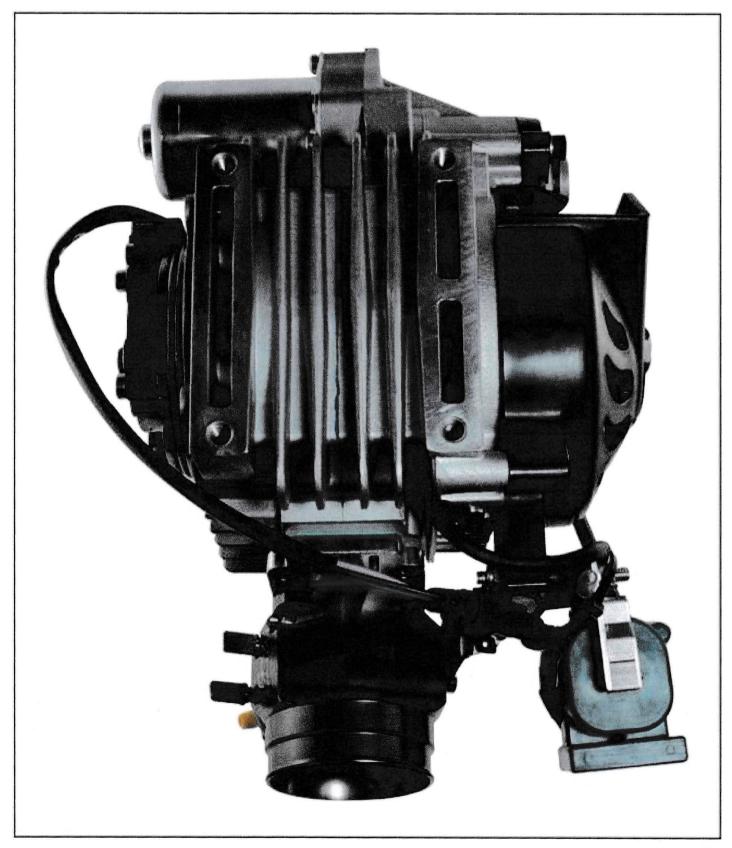


PHOTO OF THE COMPLETE ENGINE TAKEN FROM ABOVE





PHOTO OF THE COMPLETE ENGINE TAKEN FROM BELOW







TECHNICAL INFORMATION

А	CHARACTERISTICS		
The number of de	ecimal places must be 2 or comply with the relevant tolerance.	Tolera	nces & remarks
	Cylinder		
Volume of cy	linder	123.15cm³	<125cm ³
Original bore		53.90mm	-
Theoritical m	aximum bore	54.40mm	-
Original Stroi	ke	54mm	
Number of tra	ansfer ducts, cylinder/sump	3/3	
Number of ex	khaust ports / ducts	3	-
Volume of the	e combustion chamber	10.5cm ³	minimum
	Crankshaft		
Number of be	earings	2	
Diameter of L	pearings	25	□0.1mm
Minimum we	ight of crankshaft assembly	1880g	minimum
All parts represe	ented on page 17 photo		
	Exhaust Restrictor		
Restrictor for	TaG Restricted class's	KA-G1 24.95mm	Max
	Connecting rod		
Connecting r	-	100mm	□0.2mm
Diameter of b	pig end	18mm	□0.05mm
Diameter of s		14mm	□0.05mm
Min. weight o	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>24g</u>	Minimum
Clutch		
Minimum weight	<u>1050g</u>	minimum
Of all the parts represented on the page 21 technical drawing		

В	OPENING ANGLES		
Of the	Of the inlet (main transfer ports)		
Of the	exhaust	<u>191°</u>	□2°
Of the	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	rshaft	IRON
Conn	ecting rod	STEEL
Pistor	1	ALLOY

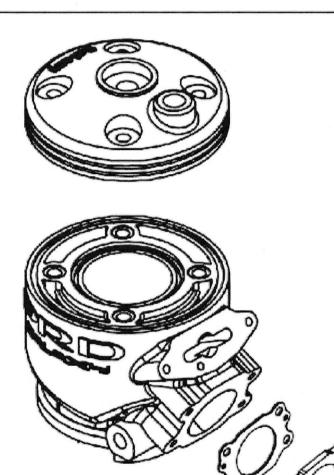


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PHOTOS, DRAWINGS & GRAPHS

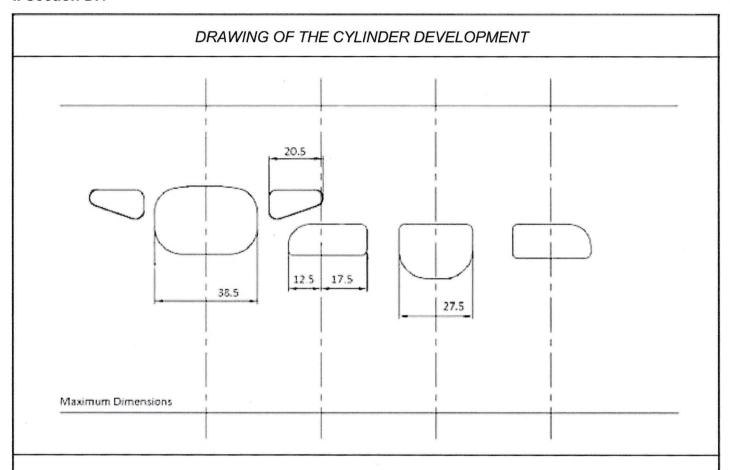
D.1 CYLINDER UNIT

EXPLODED DRAWING OF THE CYLINDER, CYLINDER HEAD AND EXHAUST MANIFOLD UNIT

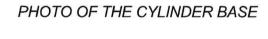


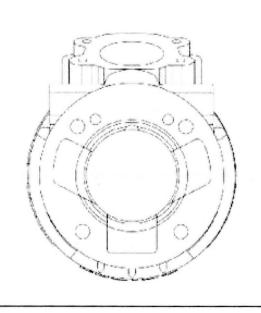


.. Section D.1



DRAWING OF THE CYLINDER BASE without dimensions









... Section D.1

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

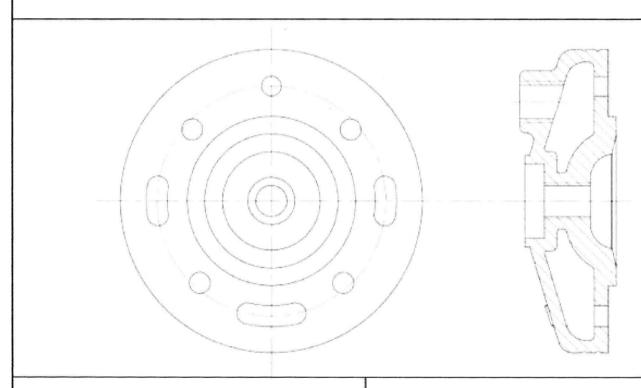


PHOTO OF THE CYLINDER HEAD

PHOTO OF THE COMBUSTION CHAMBER IN THE CYLINDER HEAD







... Section D.1

VERTICAL CROSS SECTION VIEW OF CYLINDER WITH LINER, without dimensions

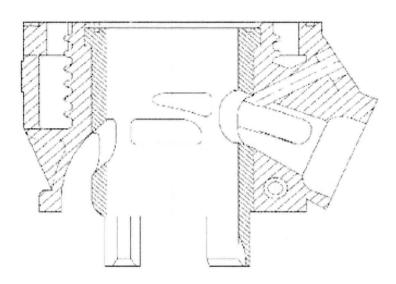


PHOTO OF THE CYLINDER FROM ABOVE

PHOTO OF THE CYLINDER FROM RH SIDE







... Section D.1

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

EXHAUST DUCT LENGTH	
ANGLE □ in °	Minimum in mm
68° +/-1°	49.64 mm +/-1.00

The L min. dimension will be the result of the value taken on the reference engine minus 5 mm.

Technical Drawing No.13



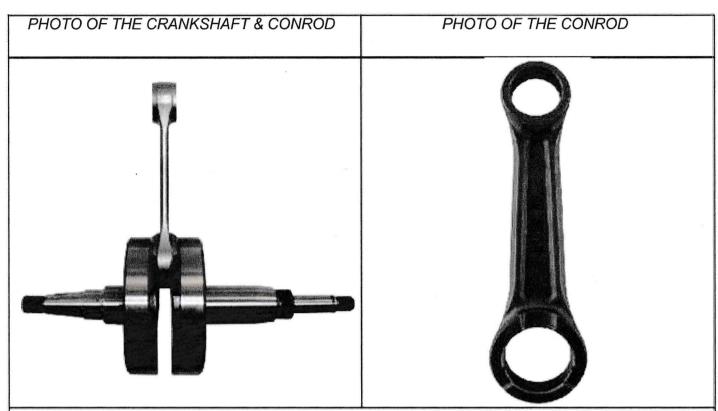
- A: Centring guide centred in relation to the exhaust duct by the exhaust manifold fixation screws, with a total thickness of 20 +/- 0.05 mm and being drilled in its centre by a hole with a 5 mm diameter, H7 bore.
- B: Control gauge composed of a shaft with a 5g6 diameter having a 2.5 mm radius at its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



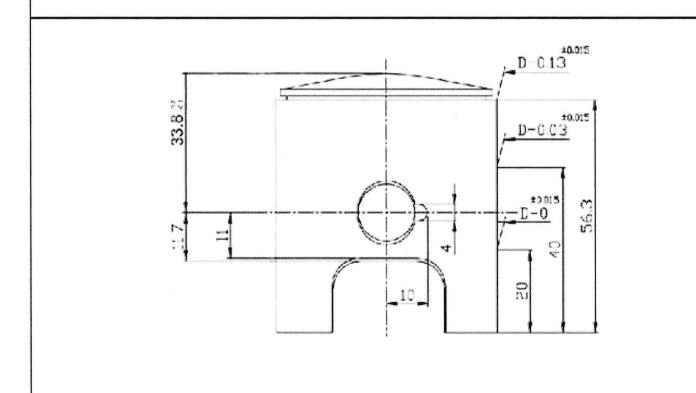
D.2 CONROD, CRANKCASE, CRANKSHAFT & PISTON EXPLODED DRAWING OF THE PISTON, CRANKSHAFT, CONNECTING ROD AND CRANKCASES UNIT (exploded crankshaft)

Speedway Kerting Association of Australasia

...Section D.2



DRAWING OF THE PISTON (MAIN DIMENSIONS incl. tolerances)

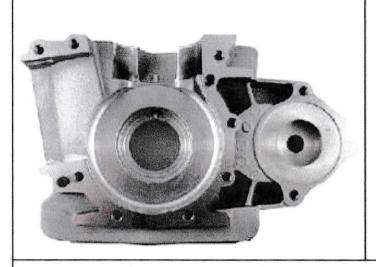


Speedway Karting Association of Assortainesis

...Section D.2

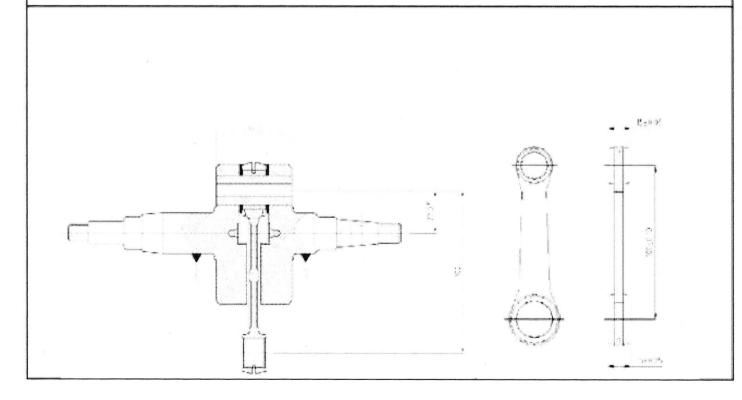
PHOTO OF THE INSIDE OF THE RH CRANKCASE

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)



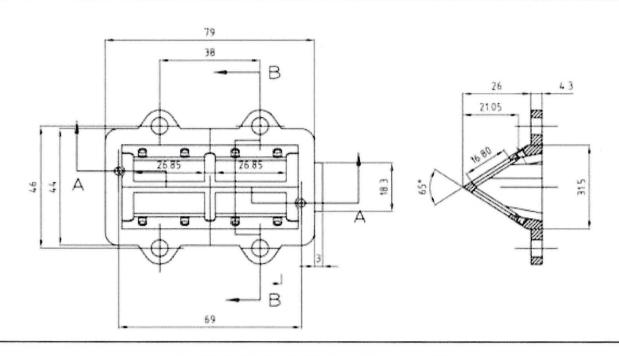


D.4 REED VALVE & CLUTCH TECHNICAL DRAWING (exploded view) OF THE CLUTCH ASSEMBLY TECHNICAL DRAWING (exploded view) OF THE REED VALVE

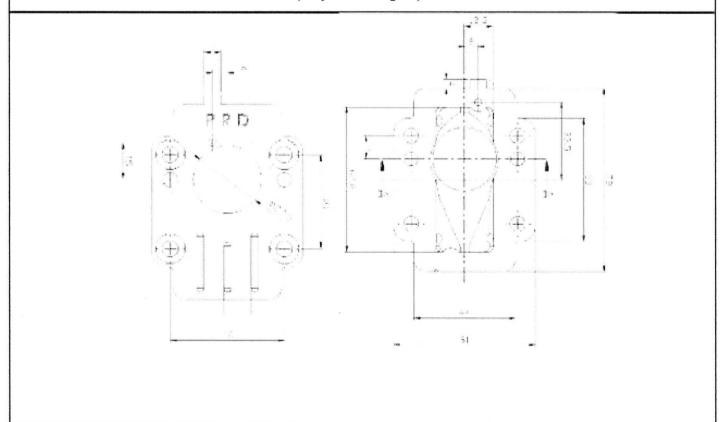


... Section D.4

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

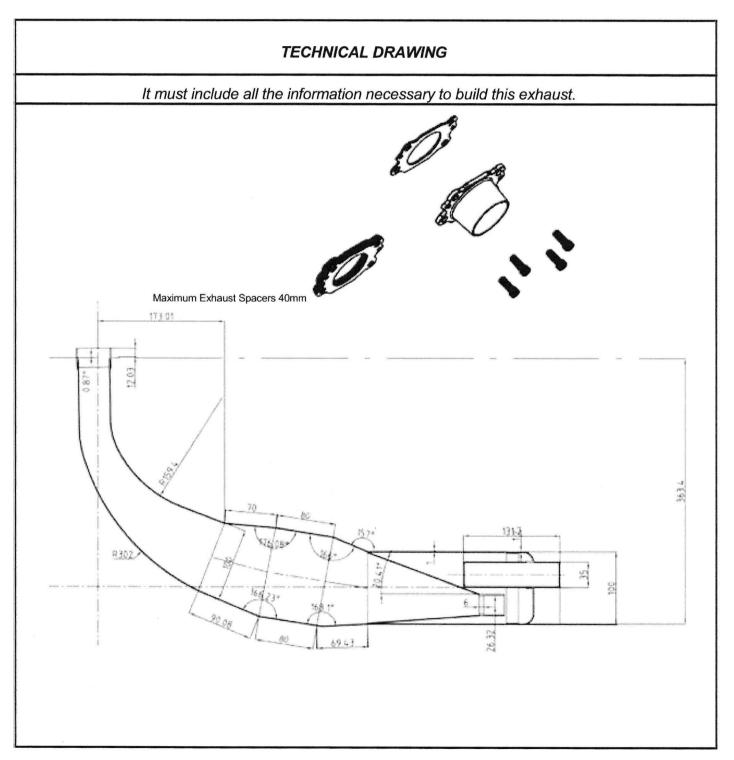


PHOTO OF THE EXHAUST





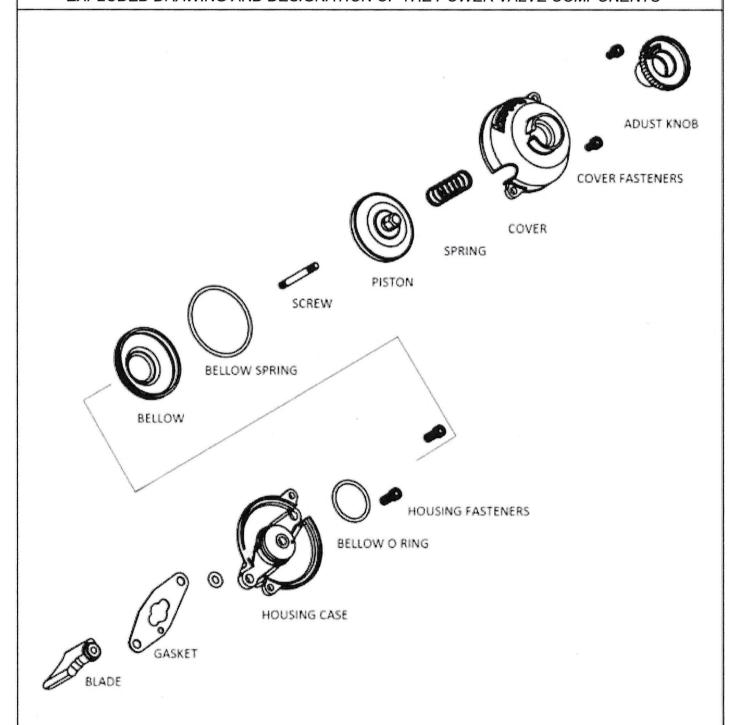
Section D.5 TECHNICAL DESCRIPTION OF THE EXHAUST (Art. 8.9.3 of H		
Weight in g	2280	Minimum
Volume in cc	4150	+/-5 %





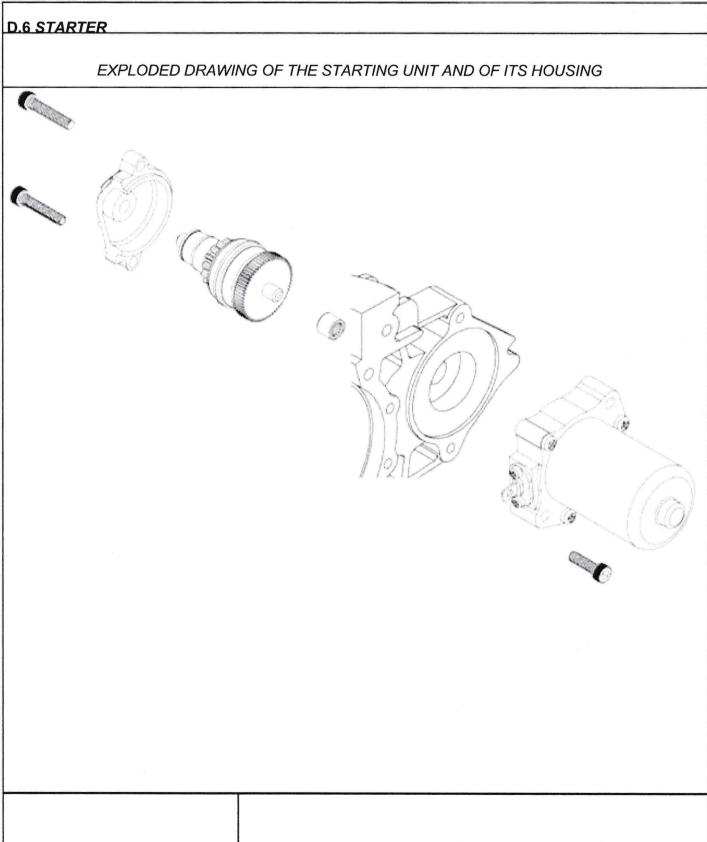
... Section D.5

EXPLODED DRAWING AND DESIGNATION OF THE POWER VALVE COMPONENTS

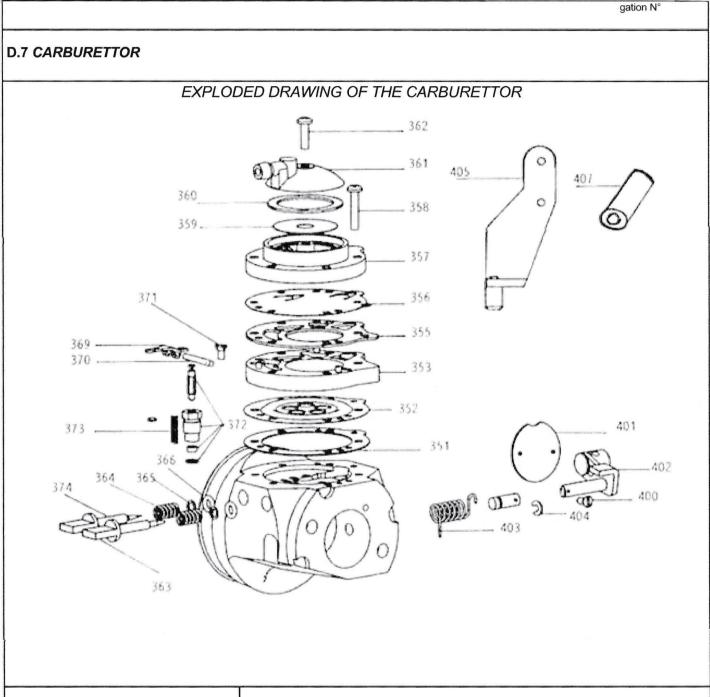


The aim of the exploded drawings is to identify the principles, the functioning and the whole mechanical unit









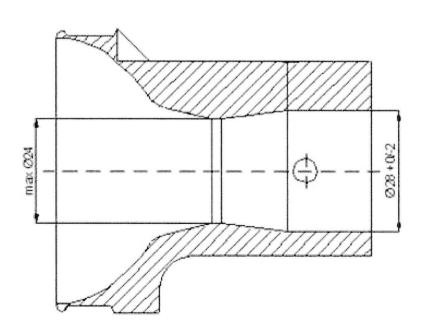
... Section D.7



PHOTO OF THE CARBURETTOR (include markings)



DRAWING OF THE CROSS SECTION OF THE CARBURETTOR (include passage dimension)

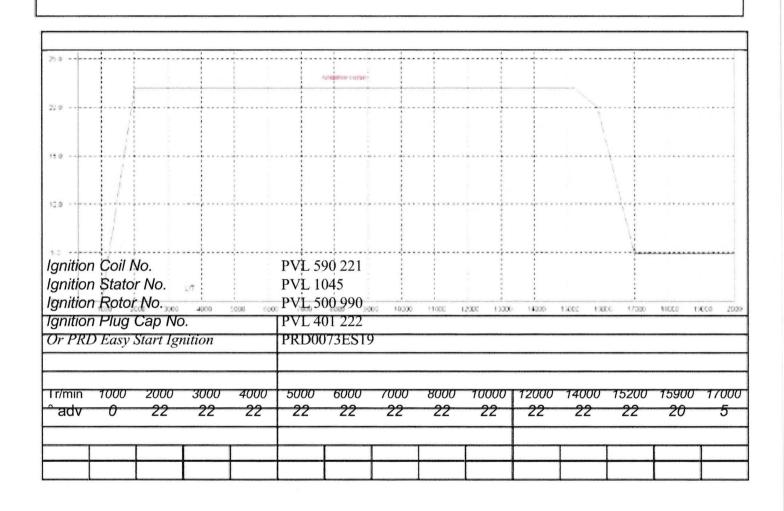






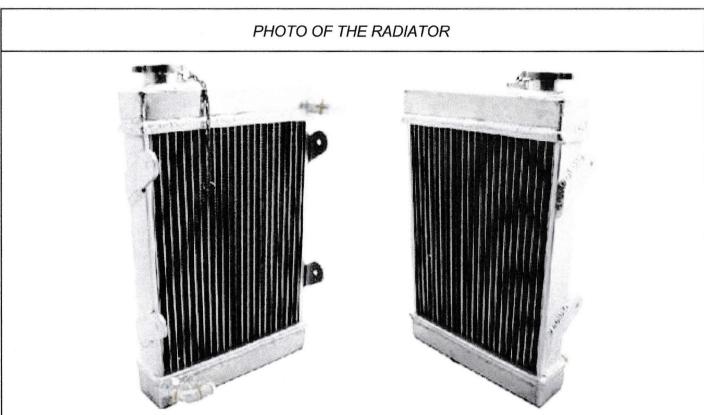
IGNITION SYSTEM

ADVANCE CURVE GRAPHS





... Section D.9



DRAWING OF THE RADIATOR (include dimension)

