

AKA Homologation No.



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ENGINE			
Manufacturer	IAME s.p.a.	Category	
Make	PARILLA	Homologation Period	
Model, Type	Leopard X30 125cc RL - TaG - AUS	Pages	22
<p><i>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</i></p>			
ENGINE PHOTO - DRIVE SIDE		ENGINE PHOTO - OPPOSITE SIDE	
SIGNATURE AND STAMP OF APPLICANT		SIGNATURE AND STAMP OF AKA	

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PHOTO OF THE ENGINE FROM THE BACK



PHOTO OF THE ENGINE FROM THE FRONT



PHOTO OF THE ENGINE FROM ABOVE

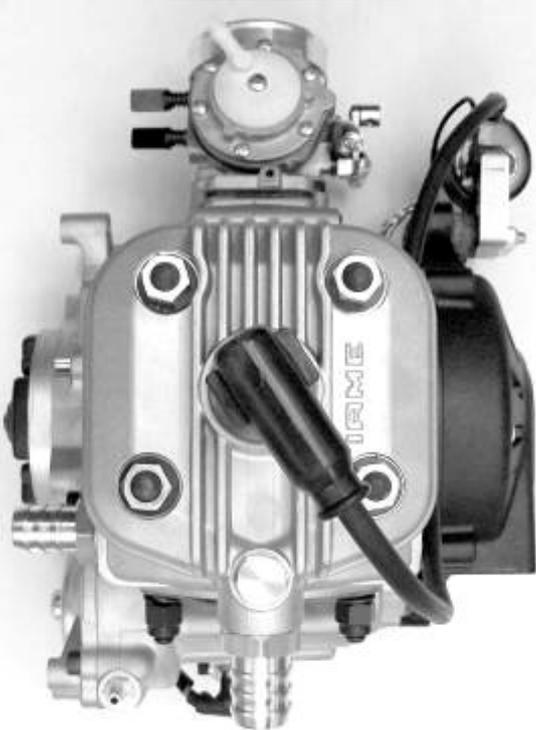
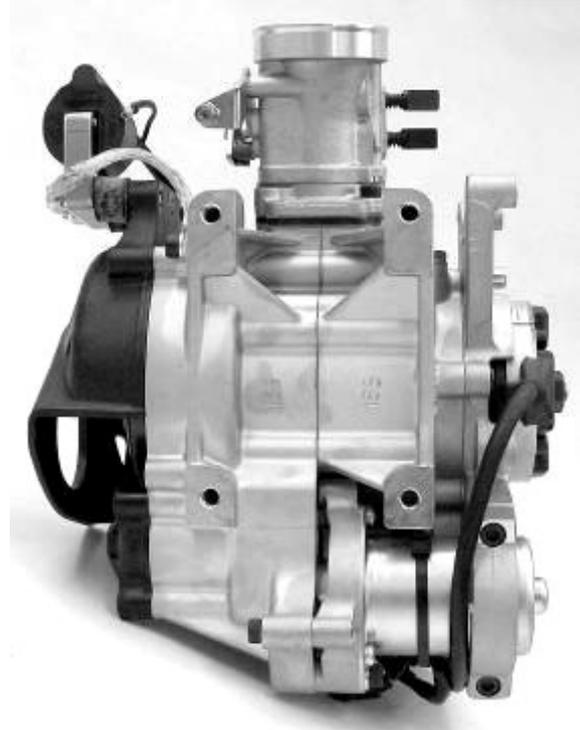


PHOTO OF THE ENGINE FROM BELOW



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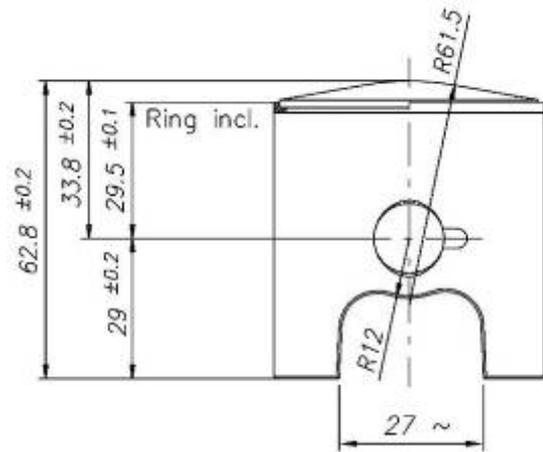
<u>TECHNICAL INFORMATION</u>			
<u>A - Characteristics</u>		<u>C - Materials</u>	
Cylinder volume	123.67 cm ³	Cylinder wall	Iron
Bore	54 mm	Cylinder	Aluminium
Theoretical max. bore	54.28 mm	Cylinder head	Aluminium
Stroke	54 mm	Crankcase / sump	Aluminium
Cooling system	Water	Connecting rod	Steel
Air admission 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 machined surfaces</u>	
Ignition model	Digital (REV. LIMIT 16000 RPM)	< 25mm [+/- 0.5mm]	
		25-60mm [+/- 0.8mm]	
		> 60mm [+/- 1.5mm]	
		<u>Dimensions on rough cast surface</u>	
Inlet			
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			
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TECHNICAL INFORMATION	
<u>E – piston</u>	
EXHAUST AND INLET TIMING READING LINES	
N° of piston rings	1
Overall length	62.8 mm ± 0.2
Radius of crown	61.5 mm
Crown to pin	33.8 mm ± 0.2
Skirt to pin	29 mm ± 0.2
<u>F – Piston Pin</u>	
material	Steel
Length	44 mm ± 0.2
Inside diameter	$\varnothing 9 \text{ mm } \begin{matrix} +0.25 \\ 0 \end{matrix}$
Outside diameter	$\varnothing 14 \text{ mm}$
Min. weight with ring= 128 g	
CARBURETOR LOCATION	
<u>G - Gaskets</u>	
Barrel gasket material	Paper
Minimum thickness	0.30 mm
Maximum thickness	0.45 mm
Cylinder head gasket material	
Minimum thickness	
Maximum thickness	

NOTE : Indicate in the diagram the type of ring on the piston



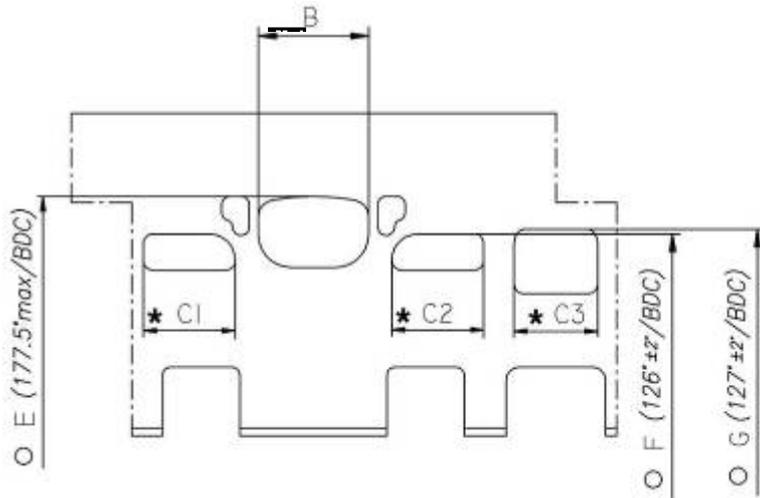
Min. weight with ring= 128 g

CARBURETOR LOCATION

NOTE : Distance from the cylinder centre may include an eventual spacer located before the carburettor

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DRAWING OF CYLINDER DEVELOPMENT

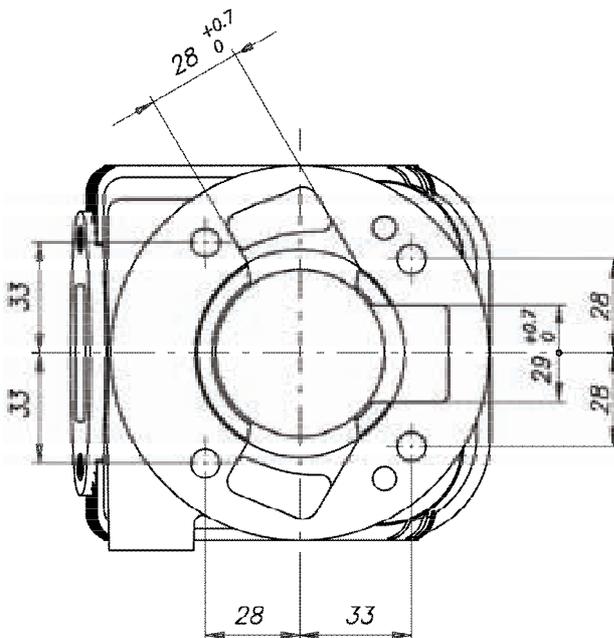


B	≤ 36.5 mm
C1 = C2	≤ 30 mm
C3	≤ 28.5 mm
E	177.5' max
F	126° ± 2'
G	127° ± 2'

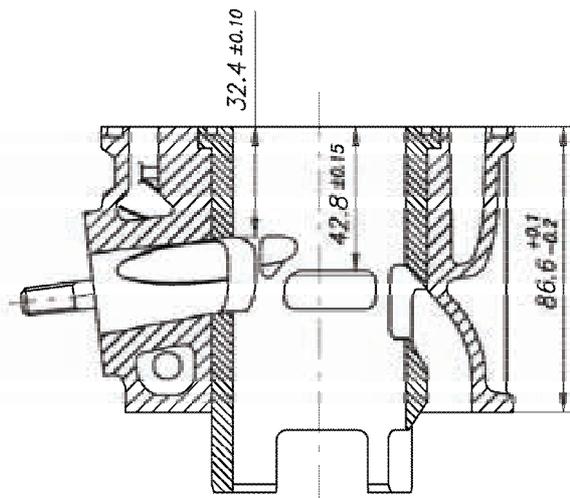
— CHORDAL READING

○ ANGULAR READING BY INSERTING A 0.2 mm GAUGE

DRAWING OF THE BASE OF THE CYLINDER

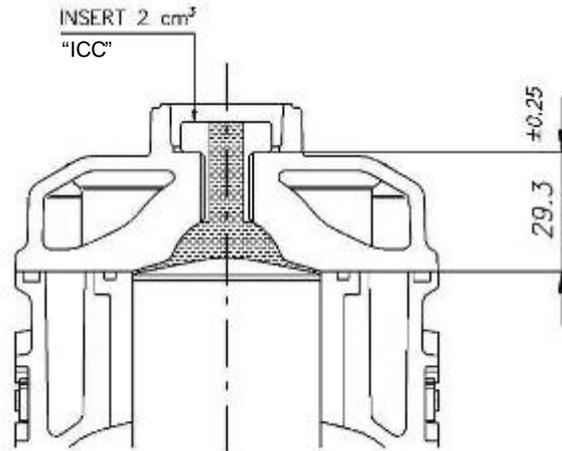


DRAWING OF CYLINDER SECTION



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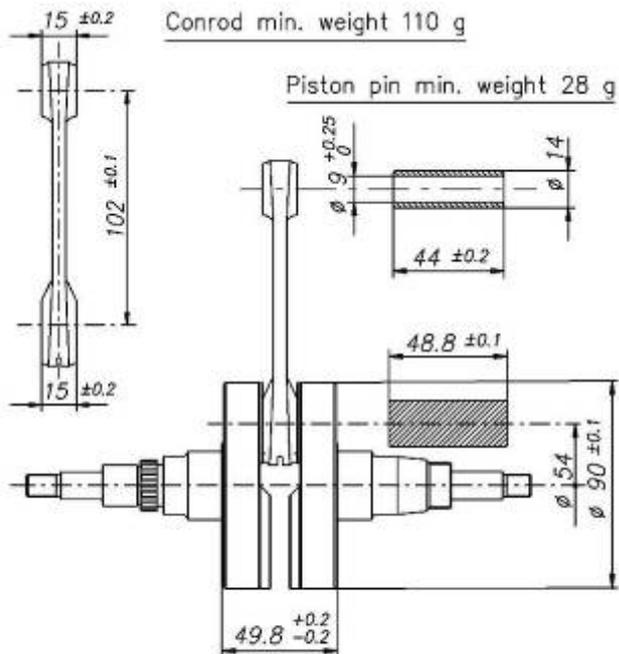
DRAWING OF THE COMBUSTION CHAMBER AND CYLINDERHEAD



COMBUSTION CHAMBER VOLUME = $10.2 \text{ cm}^3 \pm 0.5$
(WITH "ICC" INSERT: $8.2 + 2 \text{ cm}^3$)

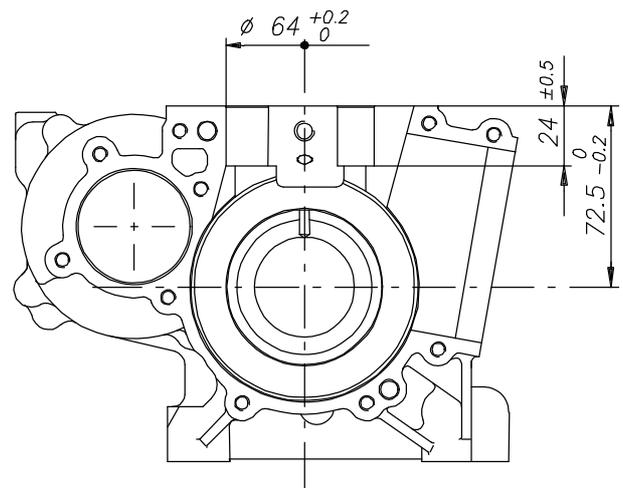
ATT.: SQUISH MIN. = 0.90 mm

DRAWING OF THE CRANKSHAFT



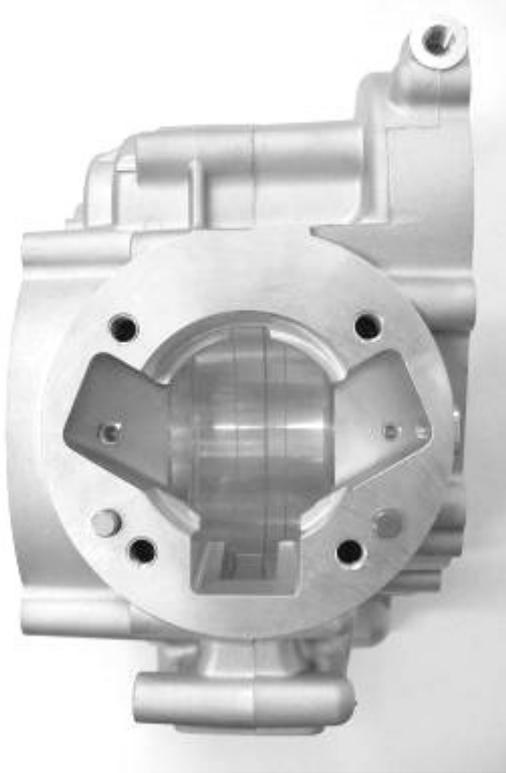
Complete crankshaft min. weight 2150 g
(with conrod)

DRAWING OF THE INTERIOR OF THE SUMP

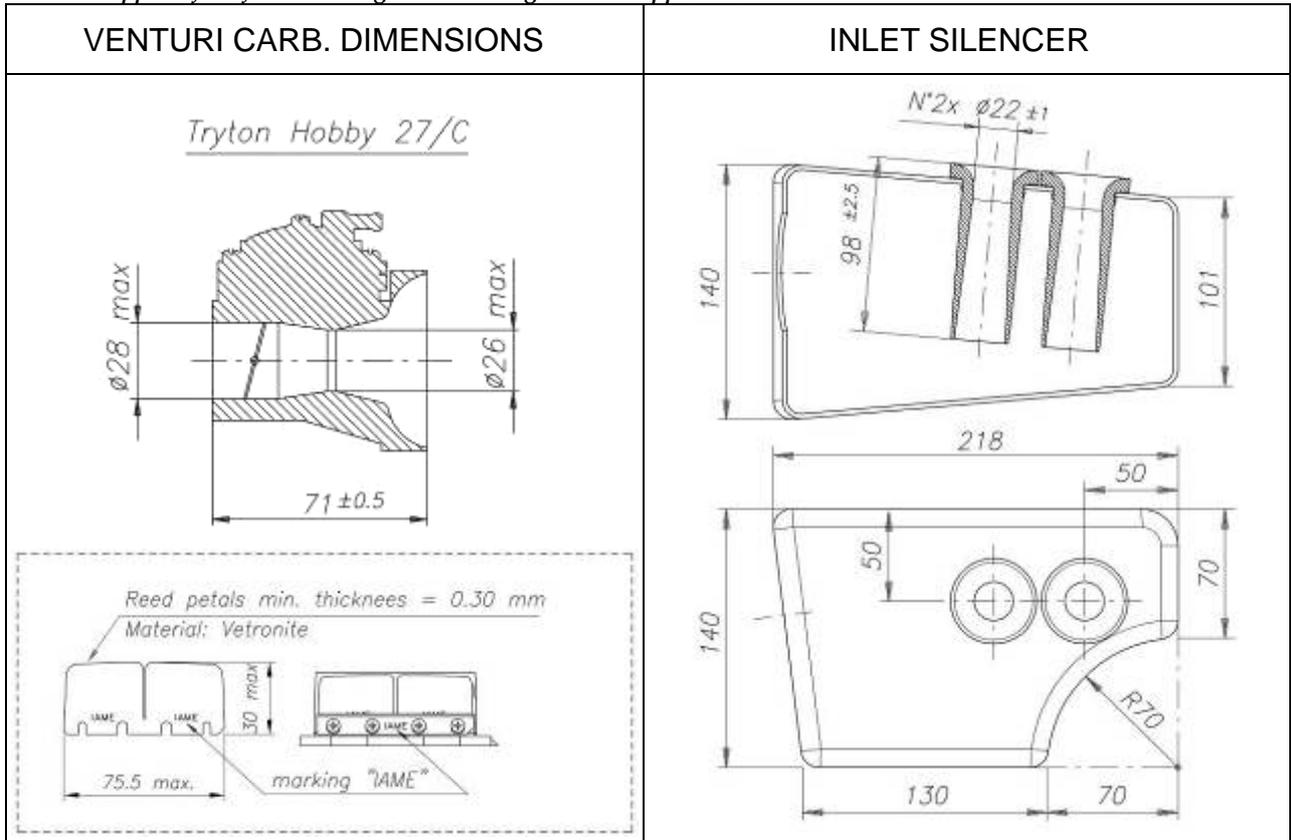


AKA Homologation No.

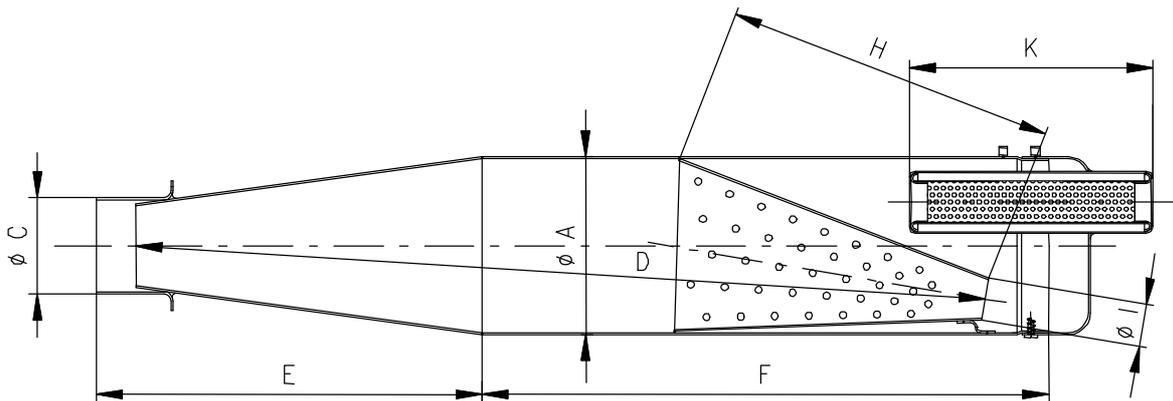
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PHOTO OF THE BASE OF THE CYLINDER	PHOTO OF THE COMBUSTION CHAMBER
	
PHOTO OF CRANKCASE – GASKET FACE	PHOTO OF CRANKCASE – INTERIOR (HORIZONTAL VIEW)
	

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DRAWING OF EXHAUST SILENCER AND COMPONENTS



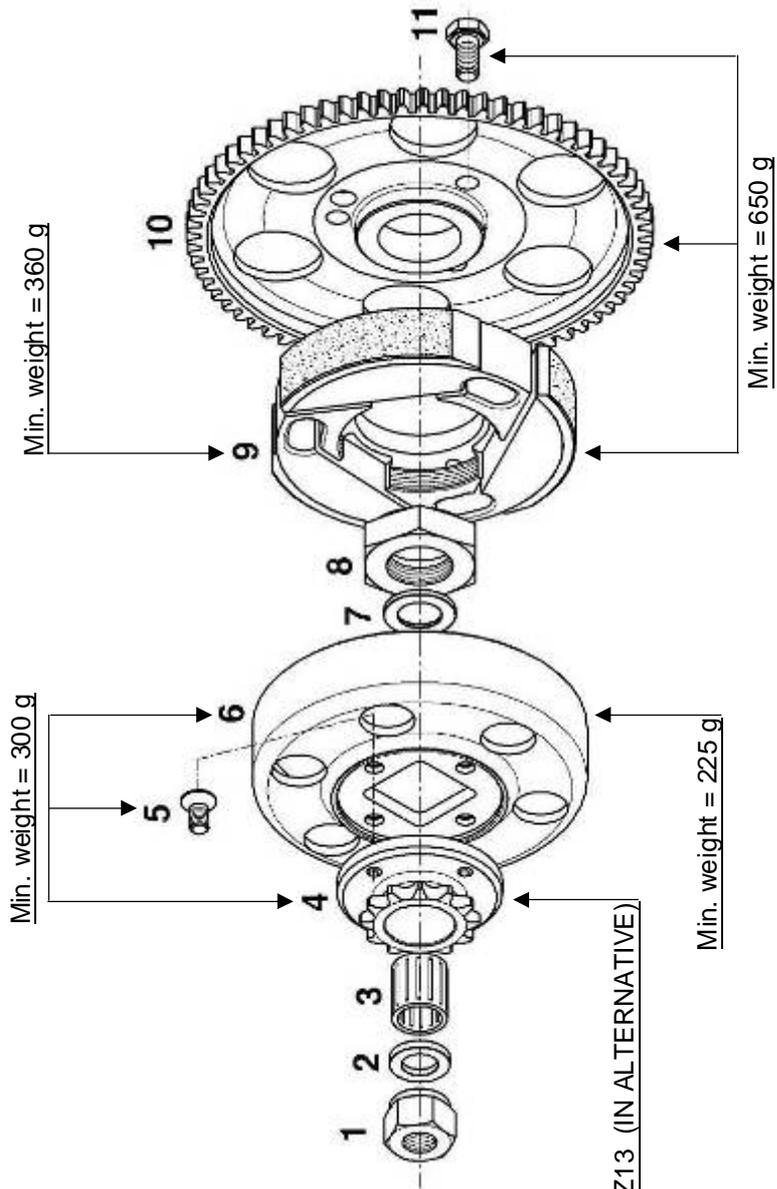
- | | | |
|----------------------------|----------------|---------------------------|
| A: $100 \pm 1 \phi_{ext.}$ | E: 218 ± 5 | H: 180 ± 5 |
| C: $54 \pm 1 \phi_{ext.}$ | K: 130 ± 3 | l: $24 \pm 2 \phi_{ext.}$ |
| D: 485 ± 5 | F: 315 ± 3 | |

Min. weight 1.39 Kg

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CLUTCH DESCRIPTION AND SKETCH OF PARTS

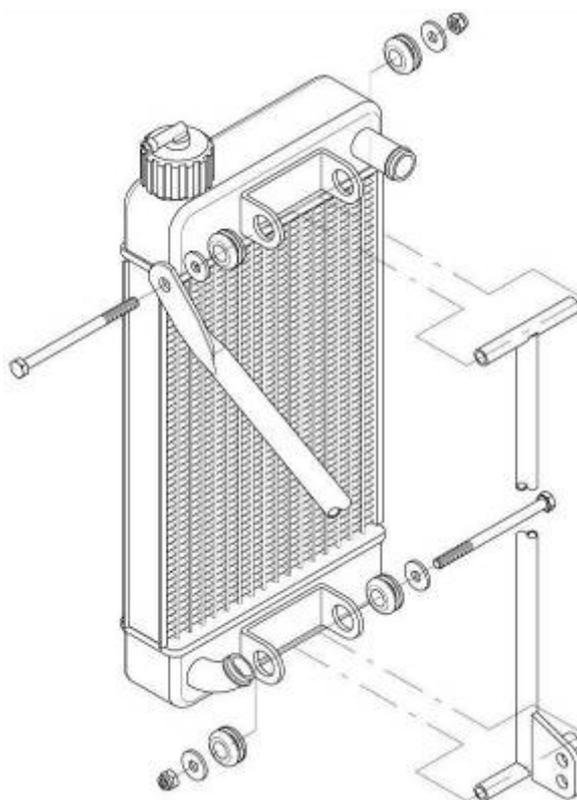
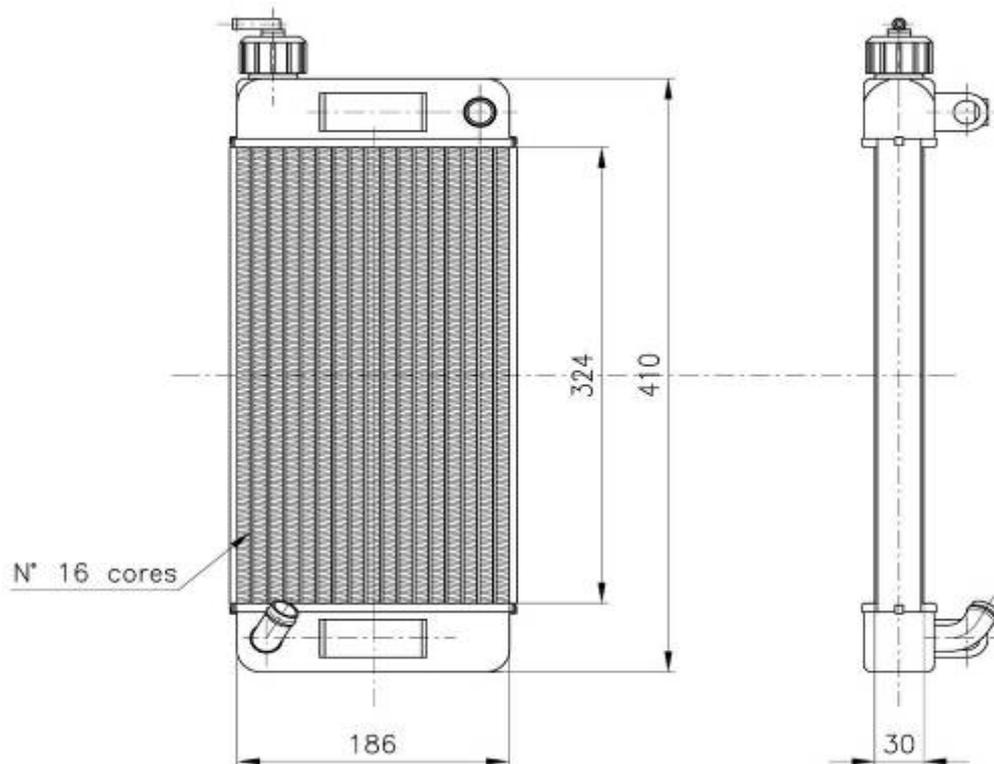


Z10 / Z11 / Z12 / Z13 (IN ALTERNATIVE)

- | | | | | | |
|---|-----------------|---|-----------------|----|--------------|
| 1 | Drum nut | 5 | Screw | 9 | Clutch body |
| 2 | External washer | 6 | Clutch drum | 10 | Starter ring |
| 3 | Roller cage | 7 | Internal washer | 11 | Screw |
| 4 | Sprocket | 8 | Locking nut | | |

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RADIATOR DESCRIPTION AND SKETCH OF PARTS



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

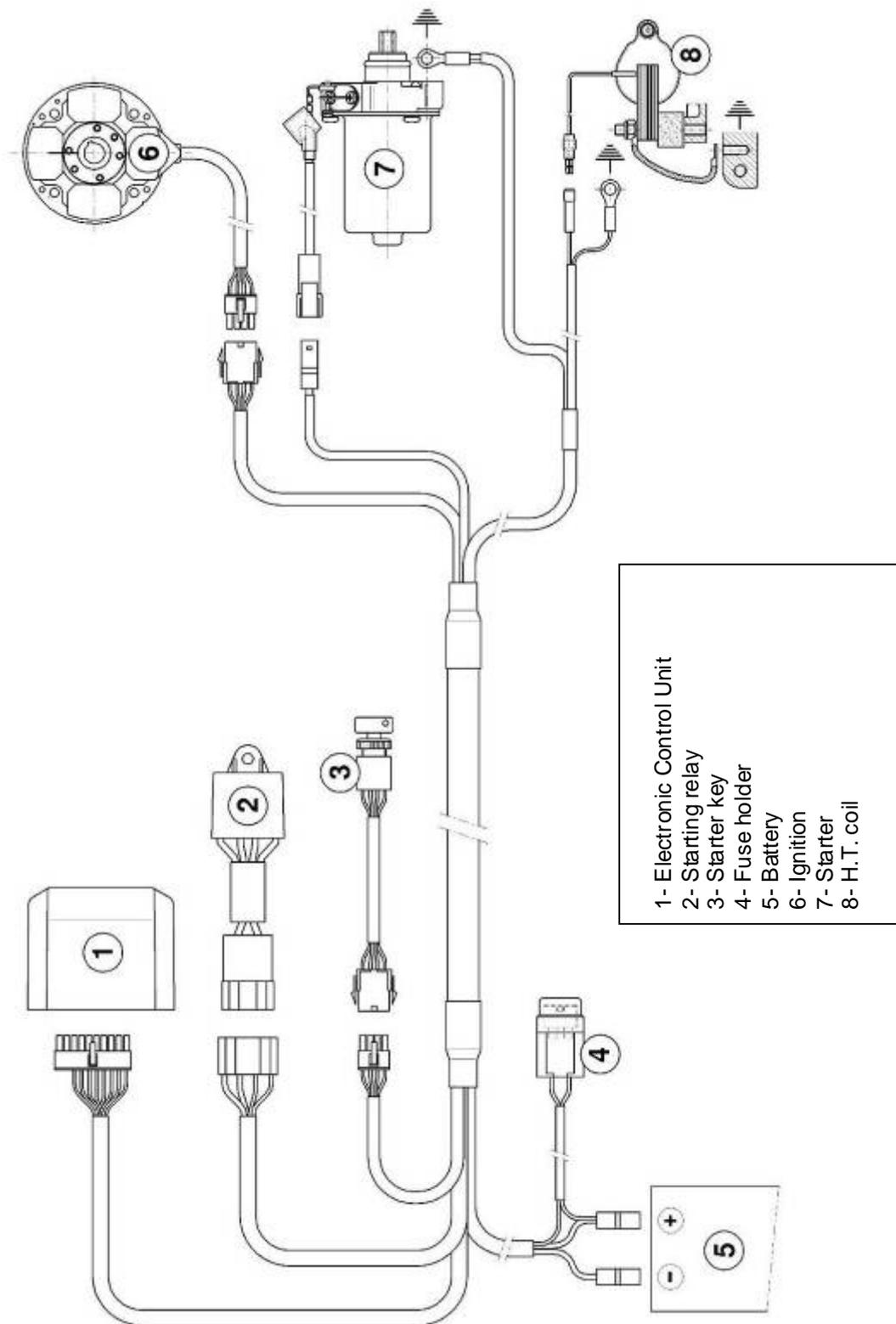
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<u>GEARBOX</u>	
Manufacturer	
Make	
Model , Type	
Primary coupling	

	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			

WIRING DIAGRAM (SELETTRA DIGITAL "K" IGNITION)

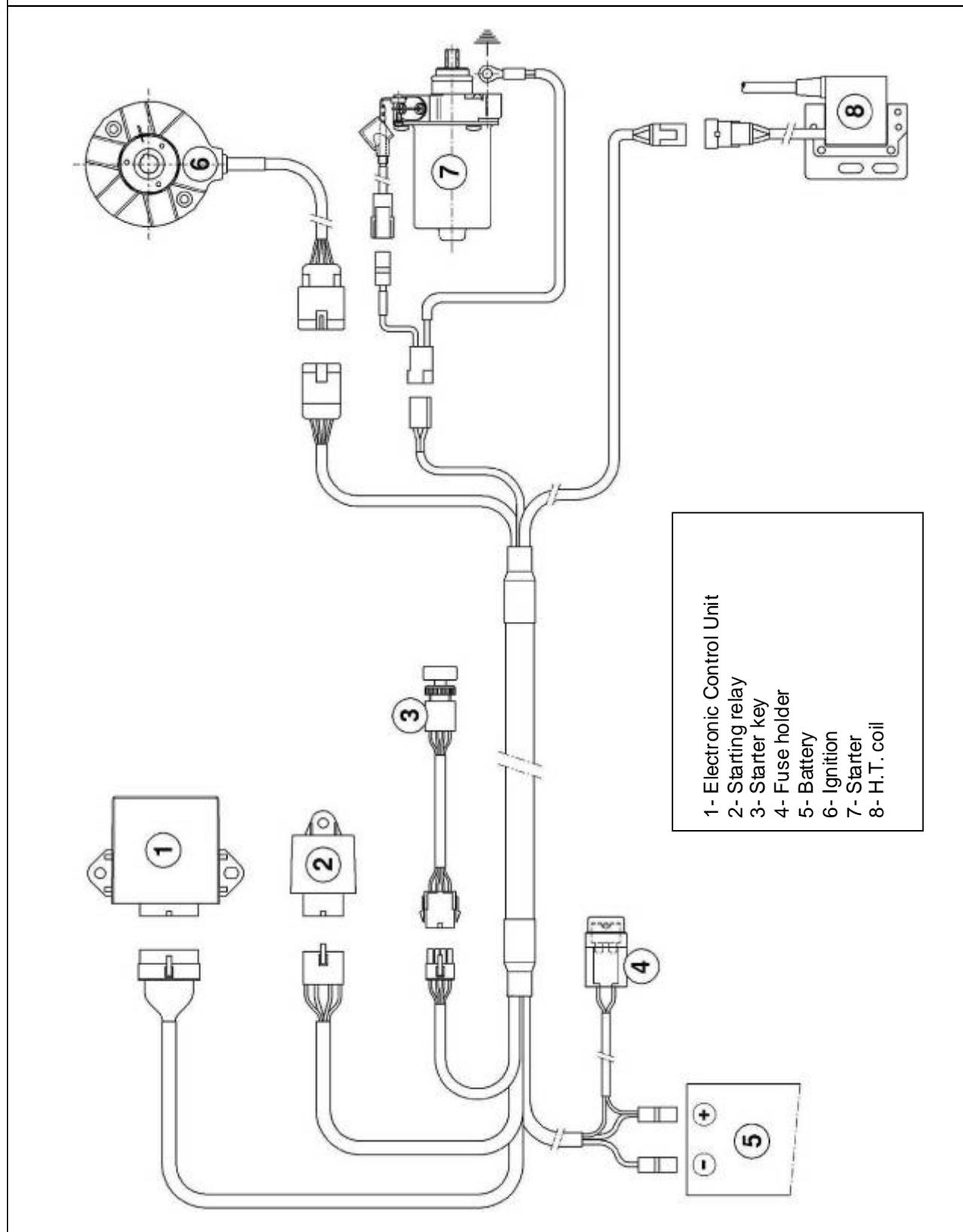


ELECTRONIC BOX MARKING

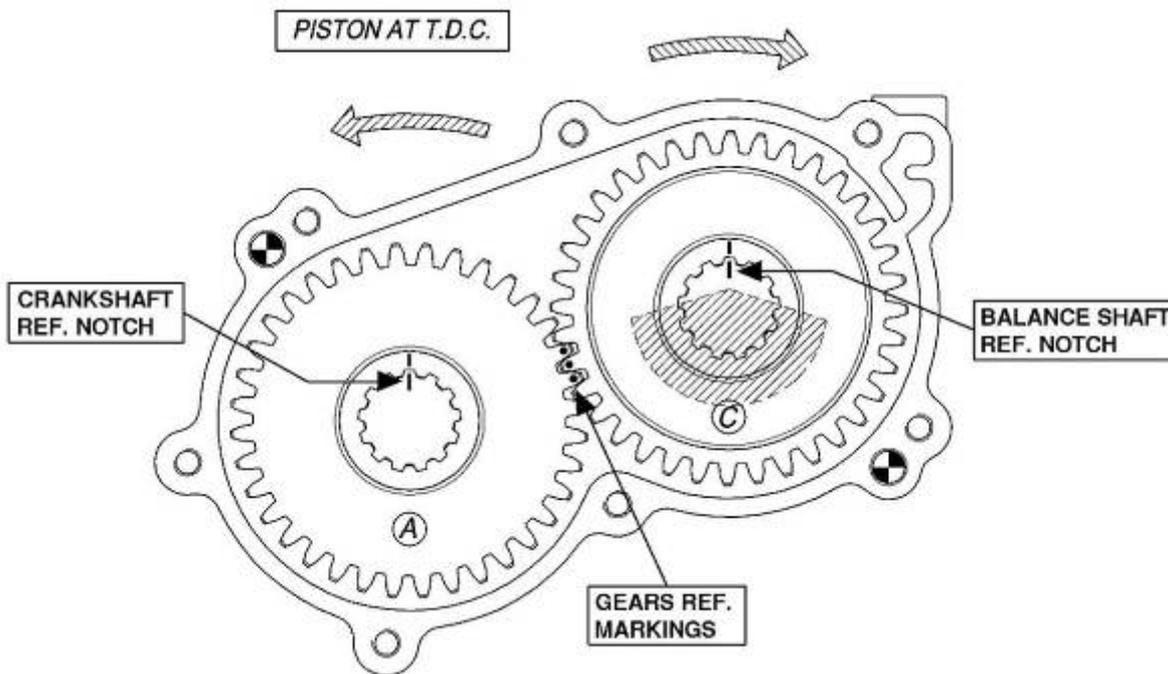


“AKA 20L” MARKING

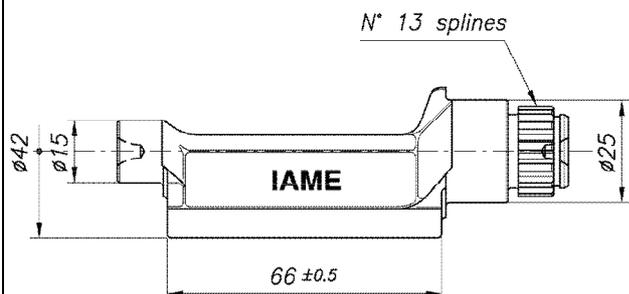
WIRING DIAGRAM (PVL DIGITAL IGNITION)



GEARS TIMING COMMAND BALANCING SHAFT

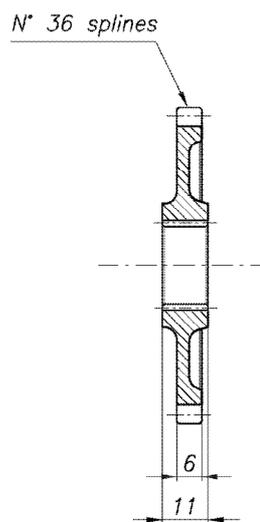


BALANCING SHAFT



Min. weight 315 gr

GEAR COMMAND BAL. SHAFT



Min. weight 135 gr

PHOTO IDENTIFICATION PISTON



PHOTO IDENTIFICATION CONROD

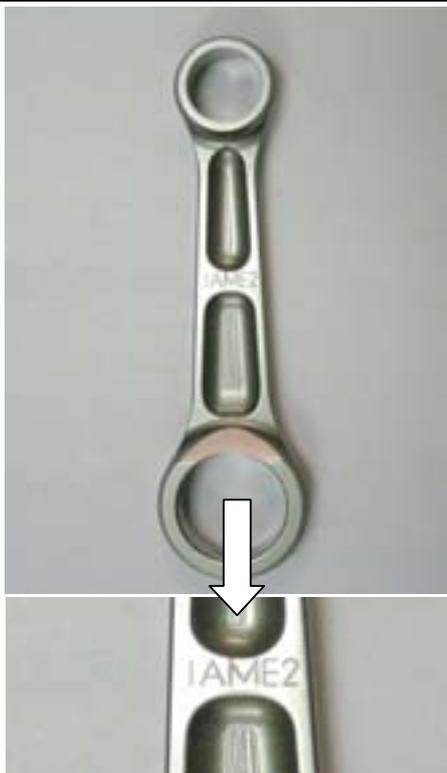


PHOTO IDENTIFICATION BALANCING SHAFT

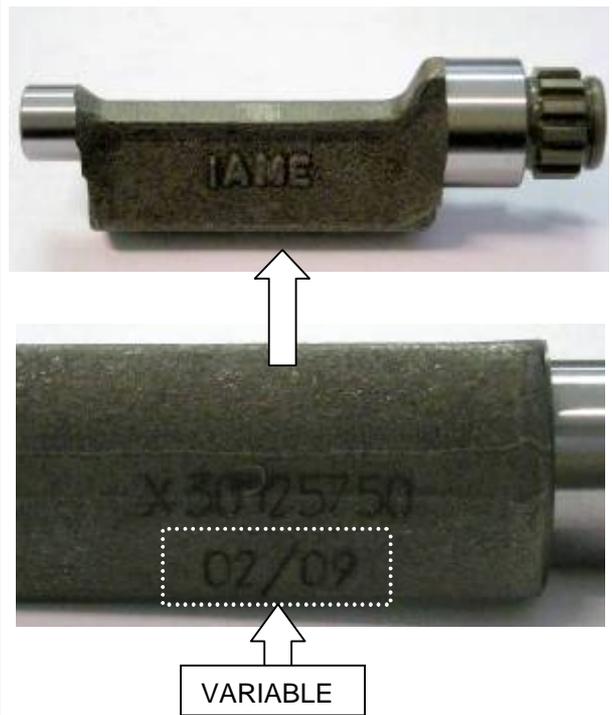


PHOTO IDENTIFICATION CRANKSHAFT



PHOTO IDENTIFICATION GEAR COMMAND BALANCING SHAFT

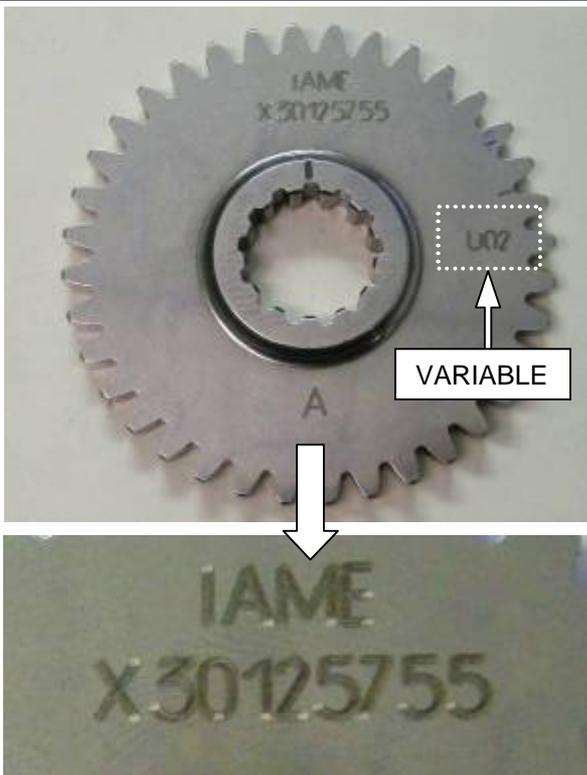
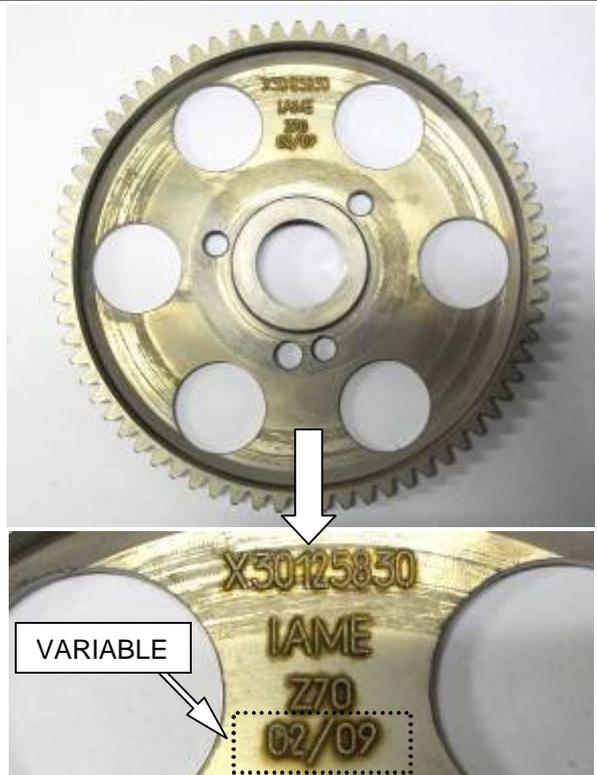


PHOTO IDENTIFICATION STARTER RING



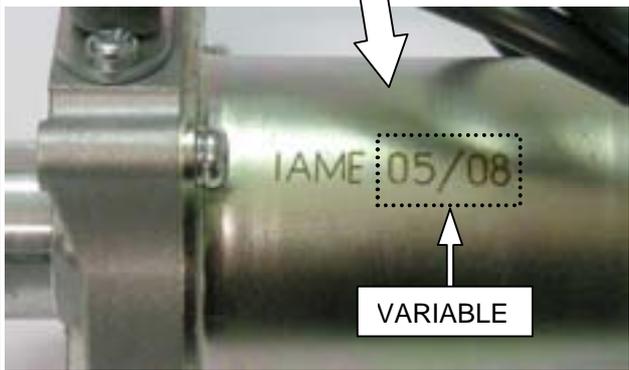
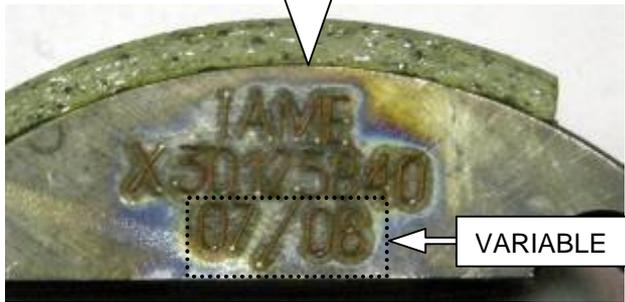


PHOTO IDENTIFICATION REED GROUP & PETALS



PHOTO IDENTIFICATION
CARBURETOR INLET CONVEYOR

PHOTO IDENTIFICATION
CARBURETOR

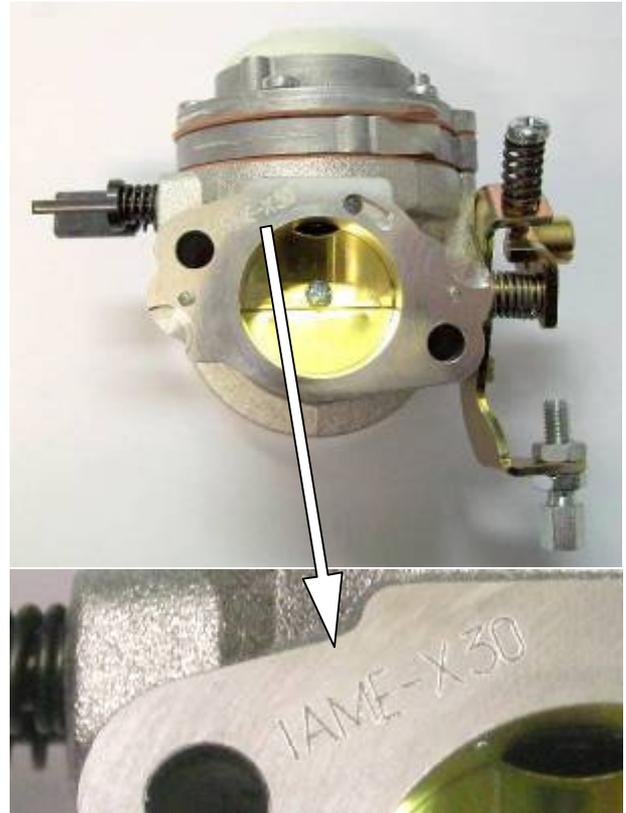


PHOTO IDENTIFICATION EXHAUST SILENCER



PHOTO IDENTIFICATION HEADER EXHAUST



PHOTO IDENTIFICATION RADIATOR



PHOTO IDENTIFICATION STATOR

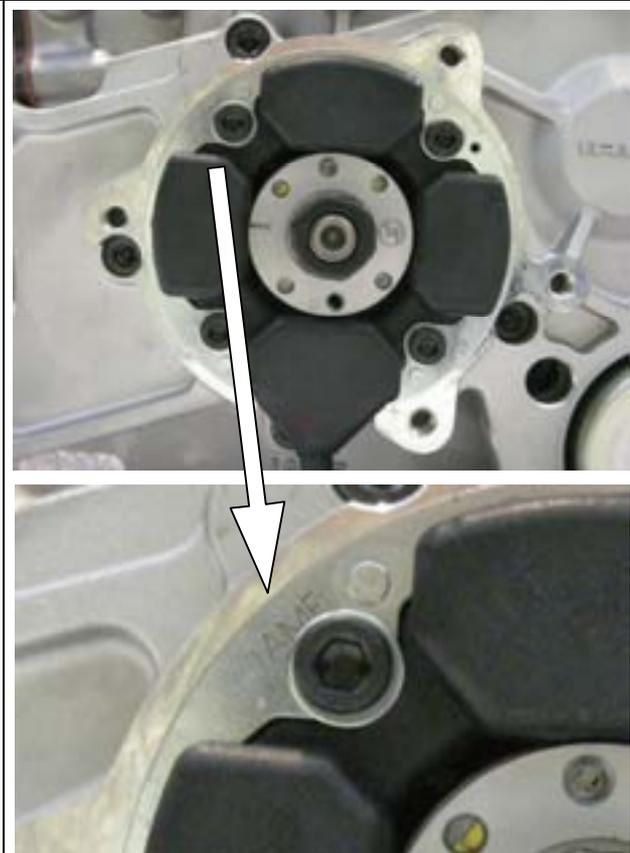


PHOTO IDENTIFICATION CLUTCH COVER AND H.T. COIL

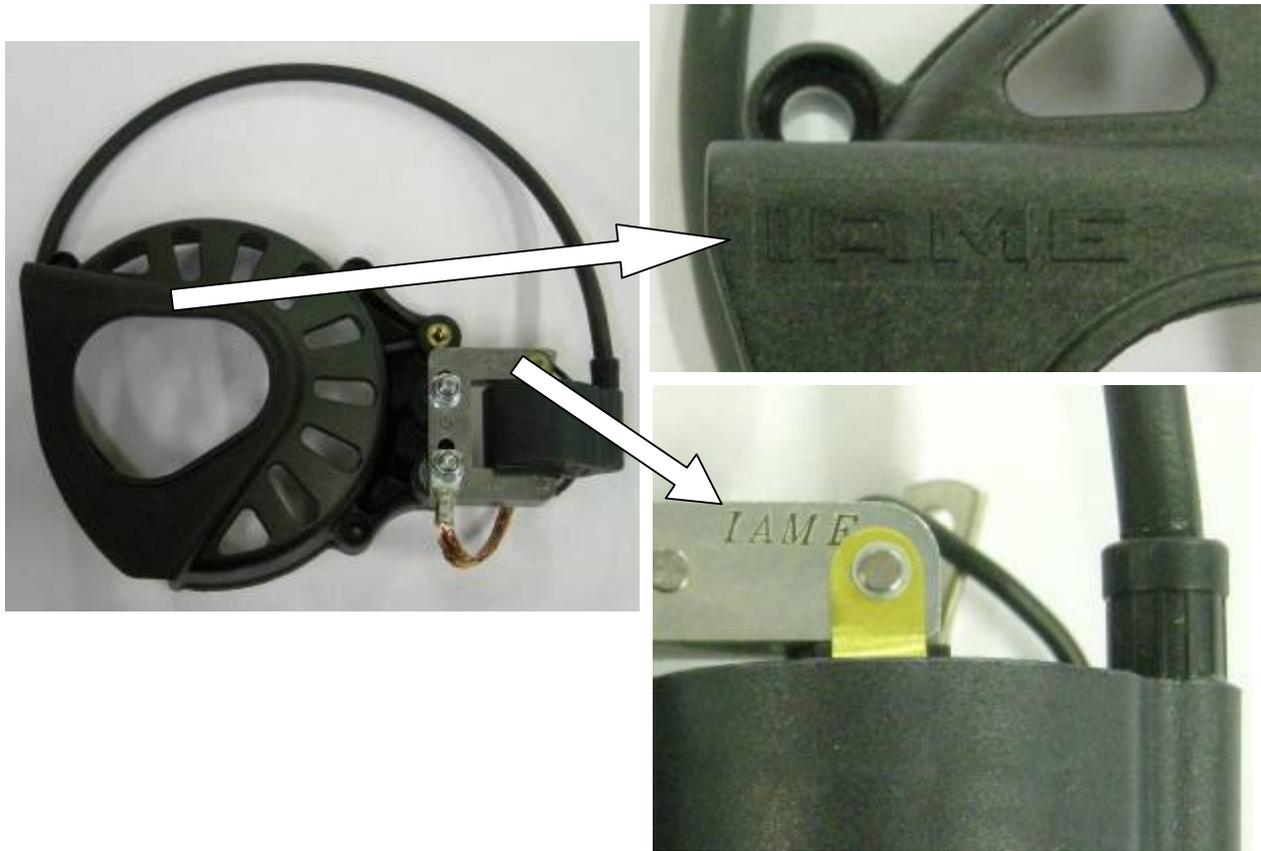


PHOTO IDENTIFICATION BENDIX COVER



I A M E

Parilla X30 125cc RL - TaG

CARBURETTOR / CARBURATEUR TRYTON HOBBY 27-C / 2009



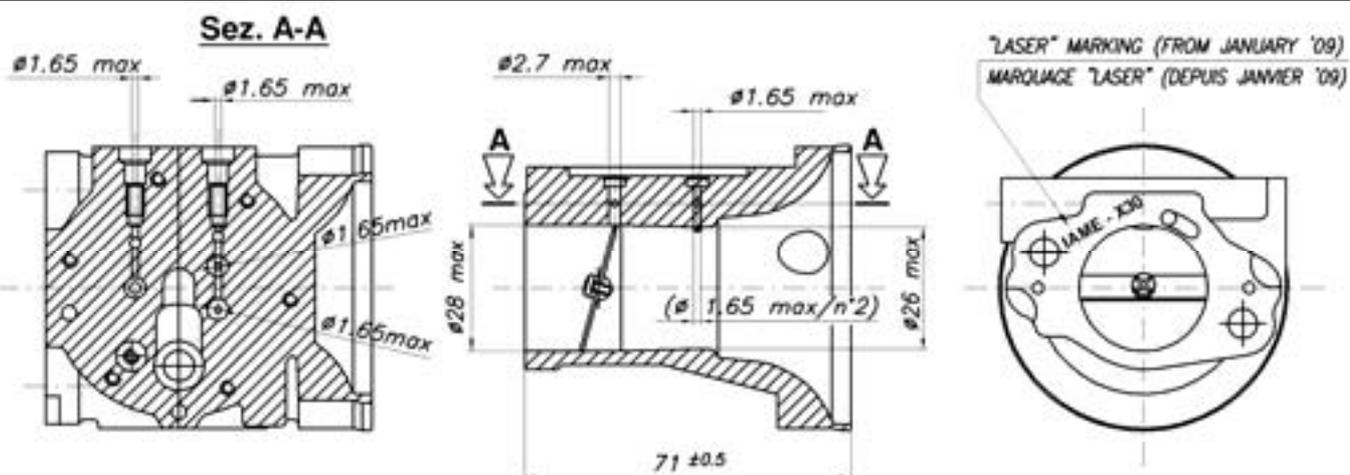
PHOTO OF INLET SIDE
PHOTO CÔTÉ ASPIRATION



PHOTO OF ADJUSTING SIDE
PHOTO CÔTÉ RÉGLADE

Manufacturer <i>Constructeur</i>	VA.MEC SRL
Make <i>Marque</i>	TRYTON
Model <i>Modèle</i>	HOBBY 27-C

SECTION VIEW / VUE EN SECTION



CARBURETTOR DESCRIPTION AND SKETCH OF PARTS
DESCRIPTION DU CARBURATEUR ET ESQUISSE DES PIÈCES

Rif.	DESCRIPTION	
1	COVER SCREW	VIS COUVERCLE
2	FILTER COVER	COUVERCLE FILTRE
3	COVER GASKET	JOINT COUVERCLE
4	FUEL SCREEN FILTER	FILTRE CARBURANT
5	BODY SCREW	VIS CORPS CARBURATEUR
6	VALVE BODY	CORPS VALVE
7	PUMP DIAPHRAGM	MEMBRANE POMPE
8	PUMP DIAPHRAGM GASKET	JOINT MEMBRANE POMPE
9	PUMP BODY	CORPS POMPE
10	DIAPHRAGM	MEMBRANE PRINCIPALE
11	DIAPHRAGM GASKET	JOINT MEMBRANE PRINCIP.
12	NEEDLE LOW SPEED	VIS REGLAGE MINIMUM
13	NEEDLE SPRING	RESSORT VIS REGLAGE
14	NEEDLE WASHER	RONDELLE VIS REGLAGE
15	NEEDLE O-RING	ANNEAU VIS REGLAGE
16	NEEDLE HIGH SPEED	VIS REGLAGE MAXIMUM
17	SCREW LEVER	VIS LEVER
18	NEEDLE VALVE	POINTEAU COMPLET
19	LEVER PIN	AXE
20	INLET LEVER	LEVER
21	INLET LEVER SPRING	RESSORT LEVER
22	THROTTLE SHUTTER SCREW	VIS FIXATION PAPILLON
23	THROTTLE SHUTTER	PAPILLON CARBURATEUR
24	SHAFT RETAINING RING	ANNEAU AXE
25	BRACKET	ETRIER COMPLET
26	SHAFT SHUTTER	AXE COMPLET PAPILLON
27	SHAFT SPRING	RESSORT RENVOI AXE
28	BRACKET SCREW	VIS FIXATION ETRIER
29	PLUG	BOUCHON
30	BOLT	ECROU FIXATION CARBUR.

