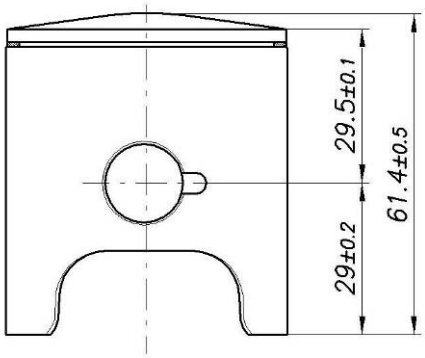
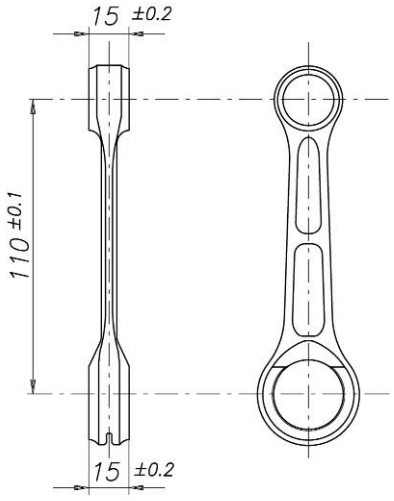
IAME
The heart of kart

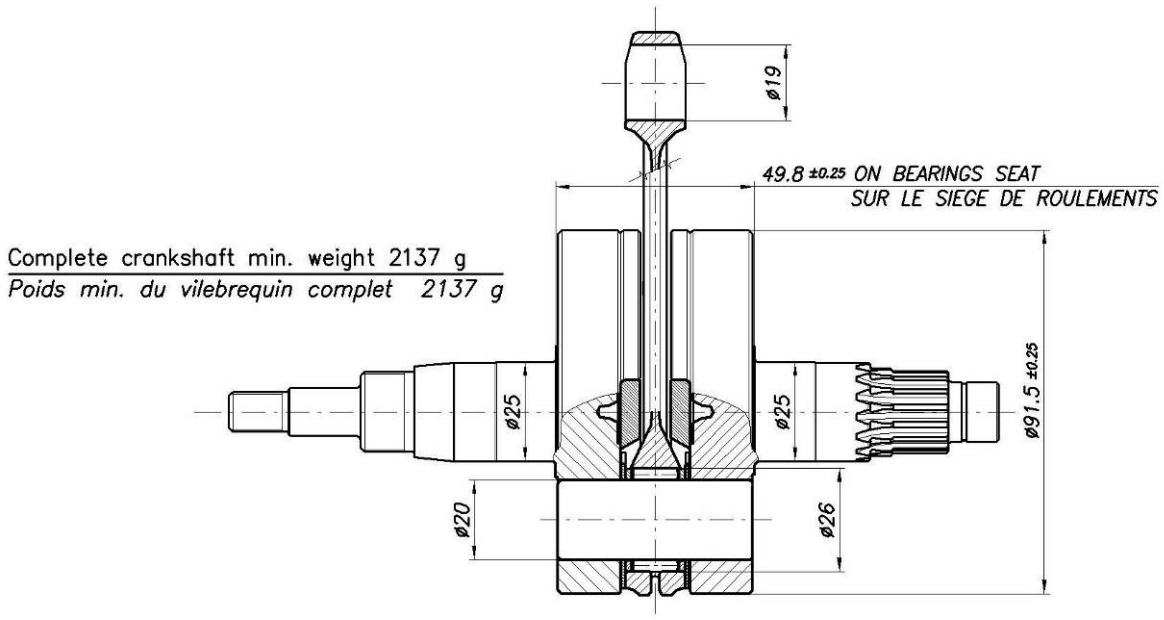
Parilla X30 SHIFTER 125cc – TaG (2011)

FEATURES - *CARACTERISTIQUES*	
Cylinder volume *Volume du cylindre*	124.08 cm³
Bore *Alésage*	53.89 mm
Max. theoretical bore *Alésage théorique max.*	54.08 mm
Stroke *Course*	54.40 mm
Distance between conrod centers *Longueur (entre axe) de la bielle*	110 mm
Cooling system *Système de refroidissement*	Water *Eau*
Inlet system *Système d' admission*	Reed valve *À clapets*
Cylinder / crankcase transfers n° *N° de canaux cylindre / carter*	5 / 3

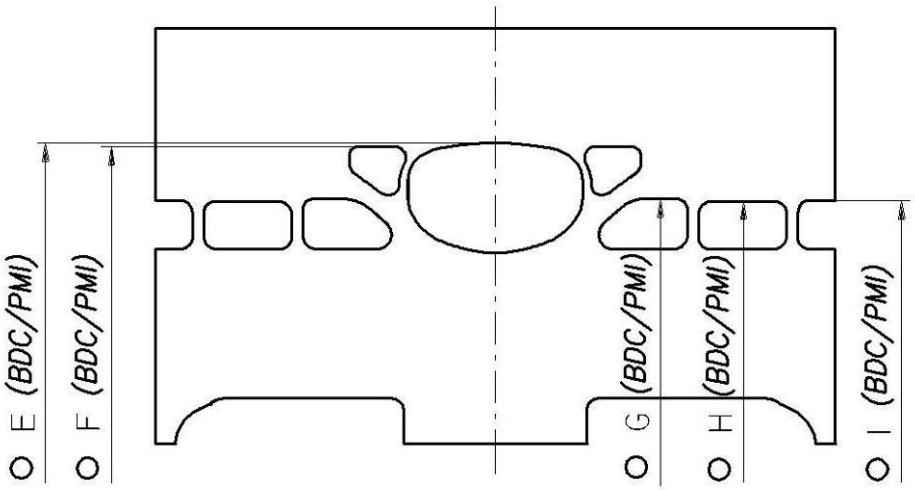
Carburetor *Carburateur*	Dell'Orto VHSH 30 - CS	Inlet / exhaust ports number *N° lumières admiss. / échapp.*	5 / 3
Number of piston rings *Nombre de segments*	1	Combustion chamber shape *Forme chambre de combustion*	Spherical *Spherique*
Big end conr. ball-bearing diam. *Diamètre palier tête de bielle*	20x26x15	Selettra ignition *Allumage Selettra*	Digital "K"
Crankshaft ball-bearing diam. *Diamètre palier du vilebrequin*	25x52x15 (2Pc.) 15x35x11 (1Pc.)	Generator for battery charging *Générateur de recharge batterie*	*Yes* *Oui*
Small end conr. ball-bearing diam. *Diamètre palier pied de bielle*	15x19x20	Electric starter *Démarreur électrique*	*Yes* *Oui*

DESCRIPTION OF THE MATERIAL *DESCRIPTION DES MATERIAUX*		PISTON
Conrod material *Matériel de la bielle*	Steel *Acier*	 Piston min. weight (ring incl.) 114 g *Poids min. piston (avec segment) 114 g*
Crankshaft material *Matériel du vilebrequin*	Steel *Acier*	
Gearbox shafts material *Matériel de l'arbres de boîte de vitesses*	Steel *Acier*	
Gears material *Matériel des engrenages*	Steel *Acier*	
Starter ring material *Matériel de la couronne démarr.*	Steel / *Acier* *or / ou* Aluminium	
Head material *Matériel de la culasse*	Aluminium	DISTANCE BETWEEN CONROD CENTERS *ENTRE AXE DE LA BIELLE*
Cylinder material *Matériel du cylindre*	Aluminium	 Min. weight 110 g *Poids min. 110 g*
Liner material *Matériel de la chemise*	Iron *Fonte*	
Crankcase material *Matériel du carter*	Aluminium	
Piston material *Matériel du piston*	Aluminium	
Piston rings material *Matériel des segments*	Iron *Fonte*	
Exhaust muffler material *Matériel du pot d' échappement*	Sheet-steel *Tôle acier*	

CRANKSHAFT – *VILEBREQUIN*



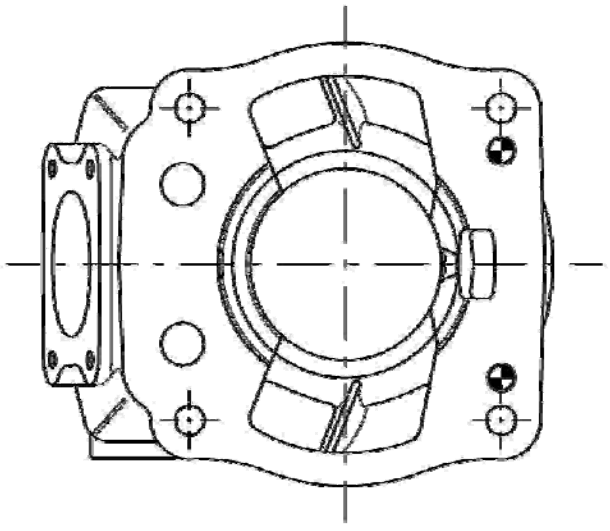
CYLINDER DEVELOPMENT - *DEVELOPPEMENT DU CYLINDRE*



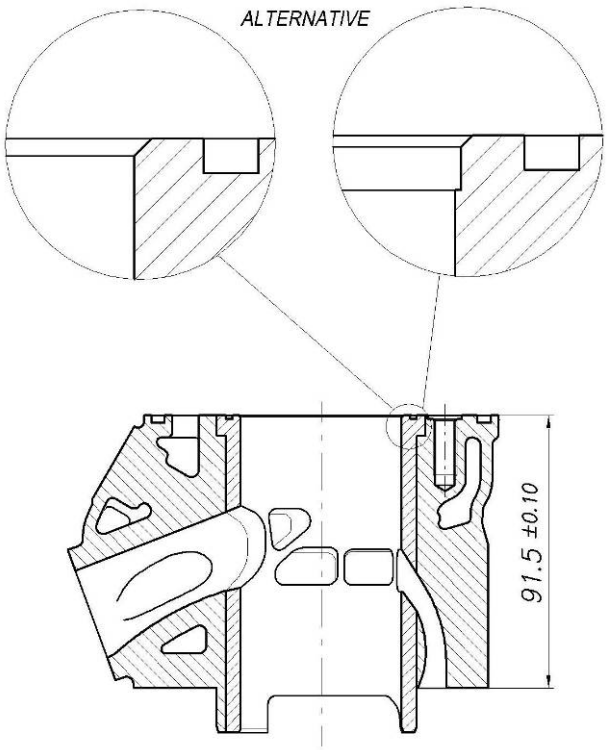
E	195° ± 2°
F	186° ± 2°
G	130° ± 2°
H	128° ± 2°
I	127.5° ± 3°

○ ANGULAR READING BY INSERTING A 0.2x5mm GAUGE
LECTURE ANGULAIRE PAR INSERTION D'UNE CALE DE 0.2x5mm

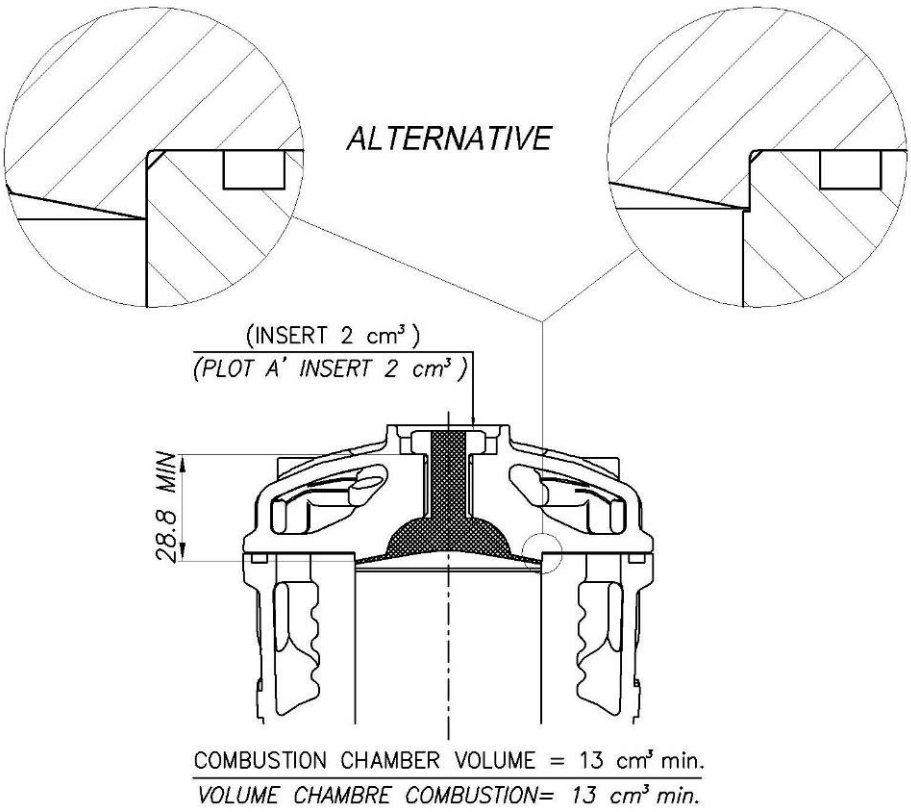
CYLINDER BASE VIEW
VUE DE LA BASE DU CYLINDRE



CYLINDER CROSS SECTION VIEW
VUE EN SECTION DU CYLINDRE

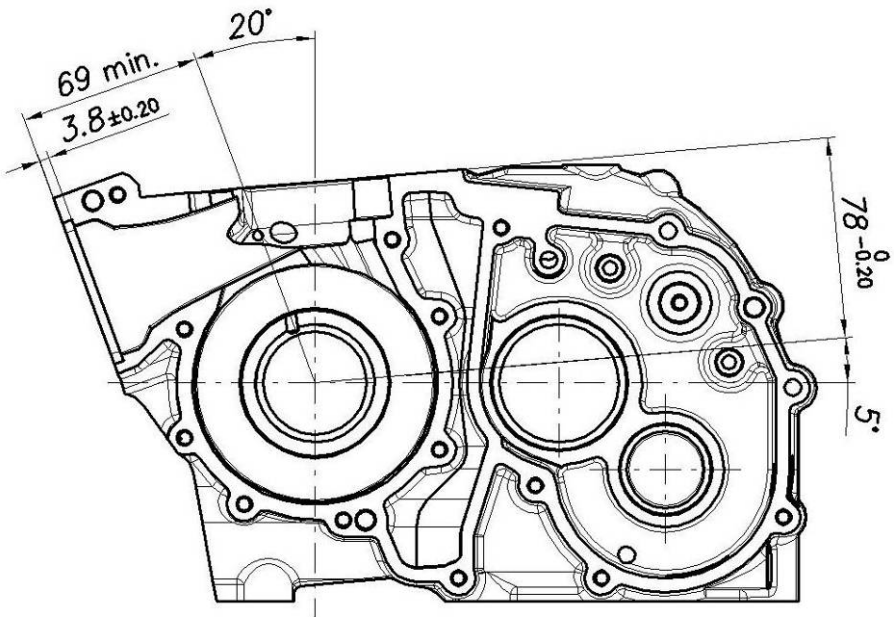


COMBUSTION CHAMBER VIEW
VUE DE LA CHAMBRE DE COMPRESSION

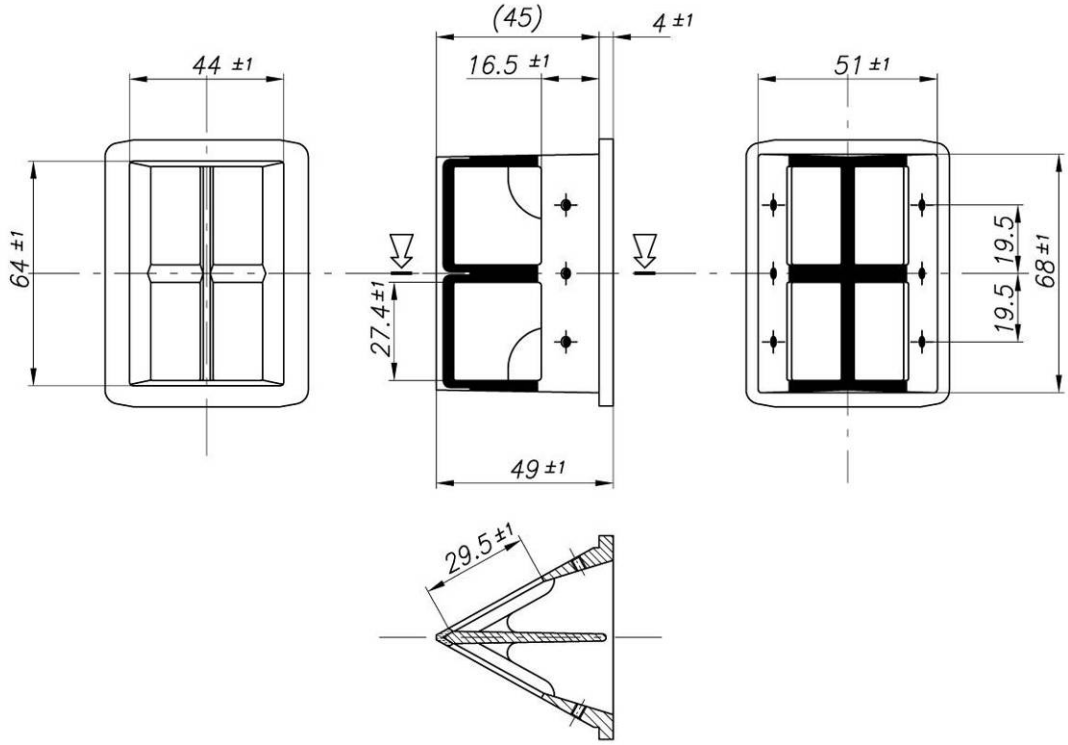


SQUISH MIN. = 0.85 mm

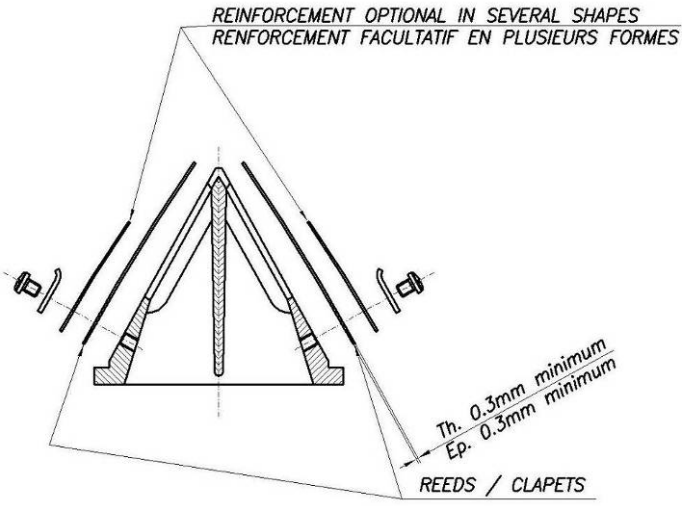
CRANKCASE INSIDE VIEW
VUE A' L' INTERIEUR DU CARTER



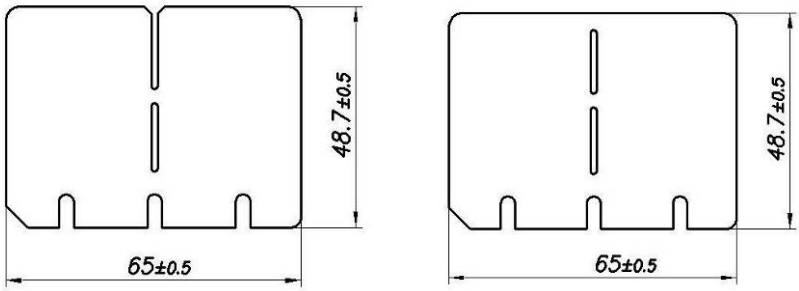
REED VALVE
BOÎTE À CLAPETS



ASSEMBLY OF REED VALVE
DESSIN D'ENSEMBLE DE LA BOÎTE À CLAPETS

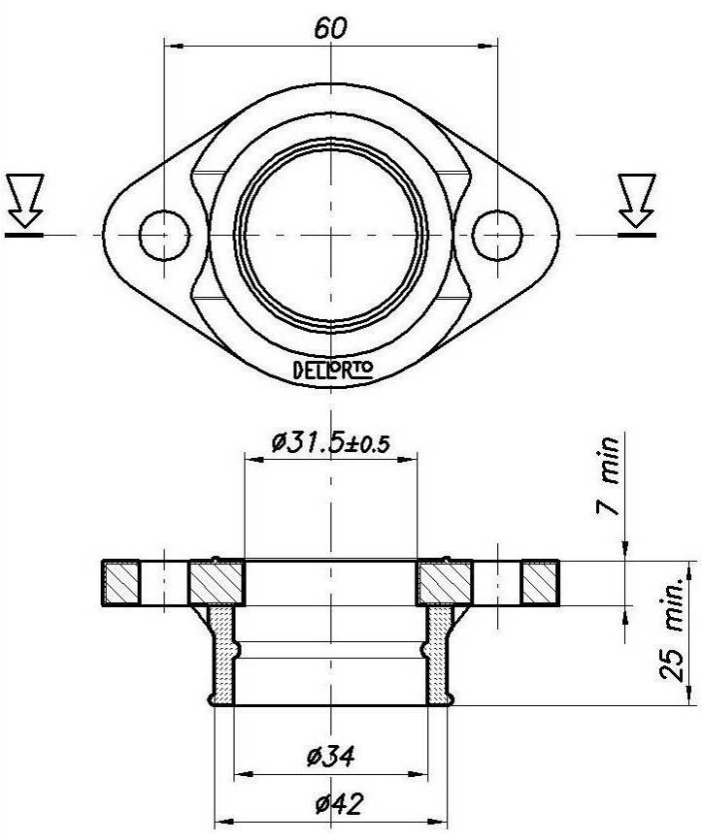


REEDS / *CLAPETS*

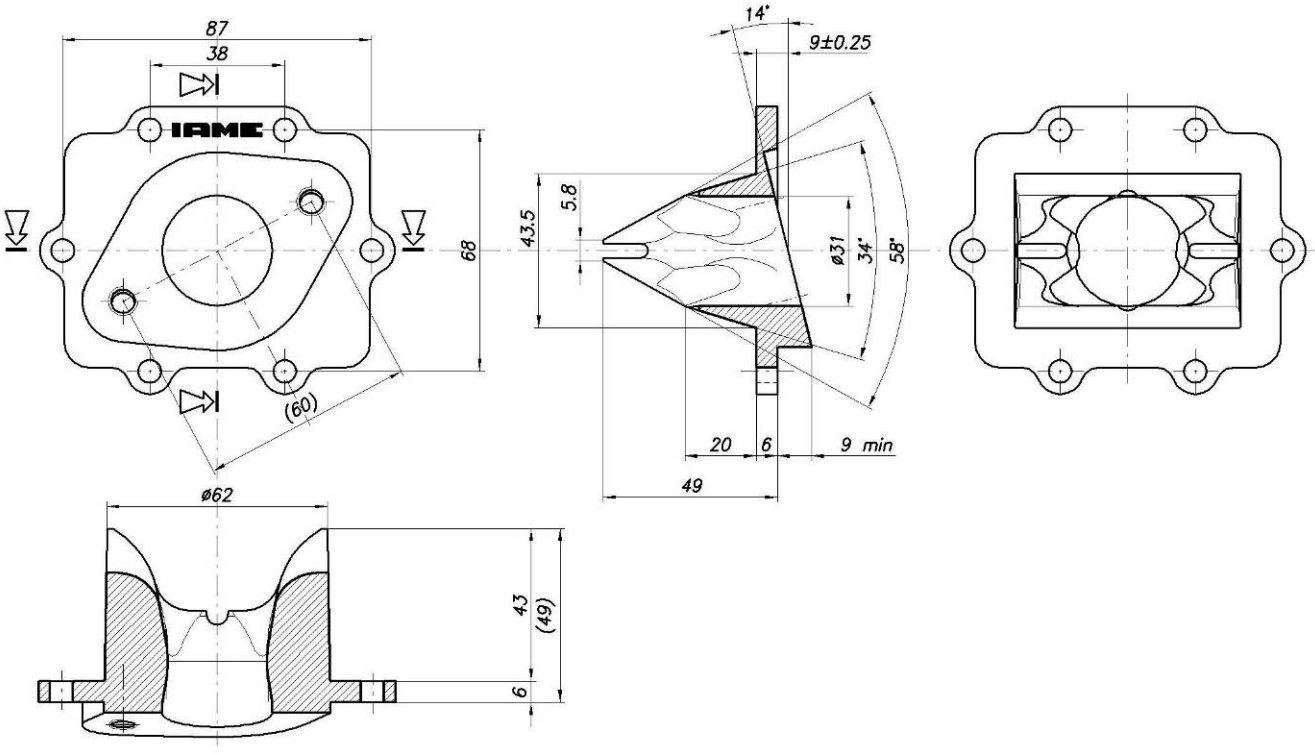


N.B.: ONLY REED "IAME" GENUINE CARBON FIBER ARE PERMITTED.
N.B. : SEULS LES CLAPETS D'ORIGINE "IAME" EN FIBRE DE CARBONE SONT AUTORISES.

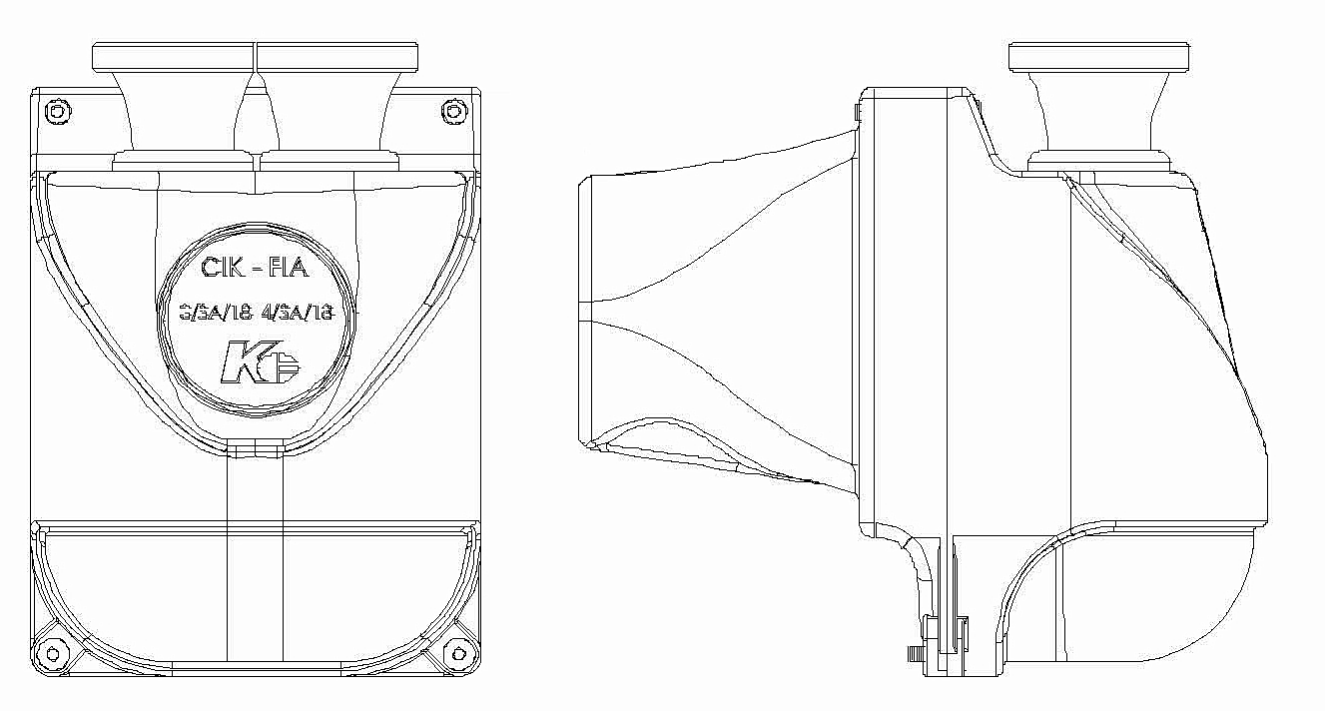
CARBURETOR FITTING RUBBER
RACCORD DU CARBURATEUR EN CAOUTCHOUC



REED VALVE COVER
COUVERCLE DE LA BOÎTE A CLAPETS

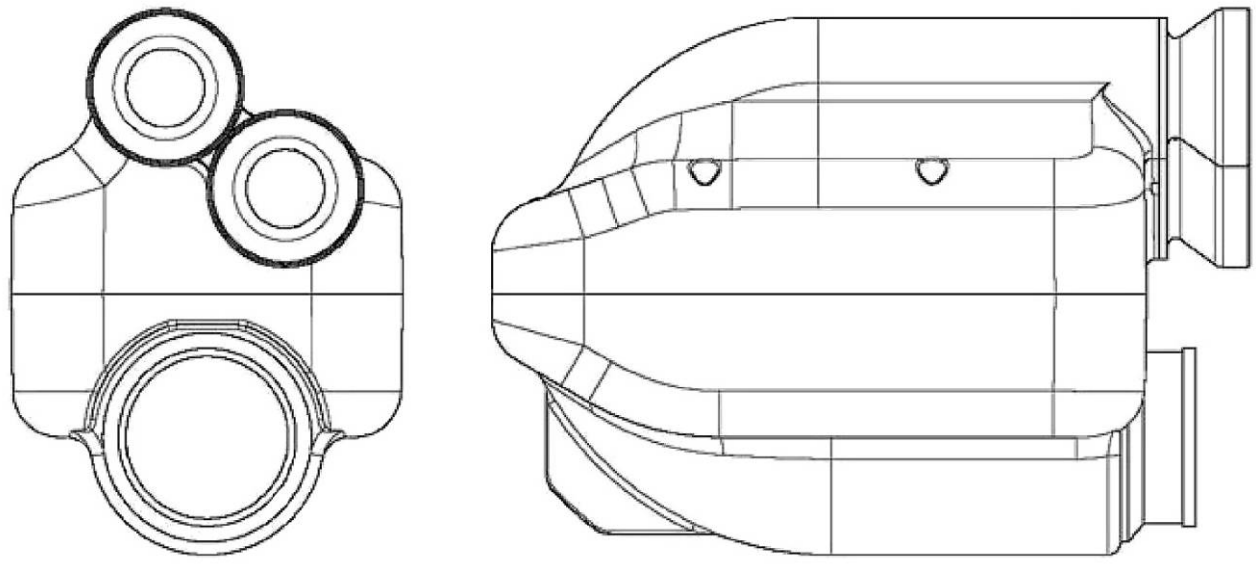


INLET SILENCER
SILENCIEUX D' ASPIRATION



Mod. APE1 (KG)
Hom. CIK/FIA 3/SA/18

OR / *OU*



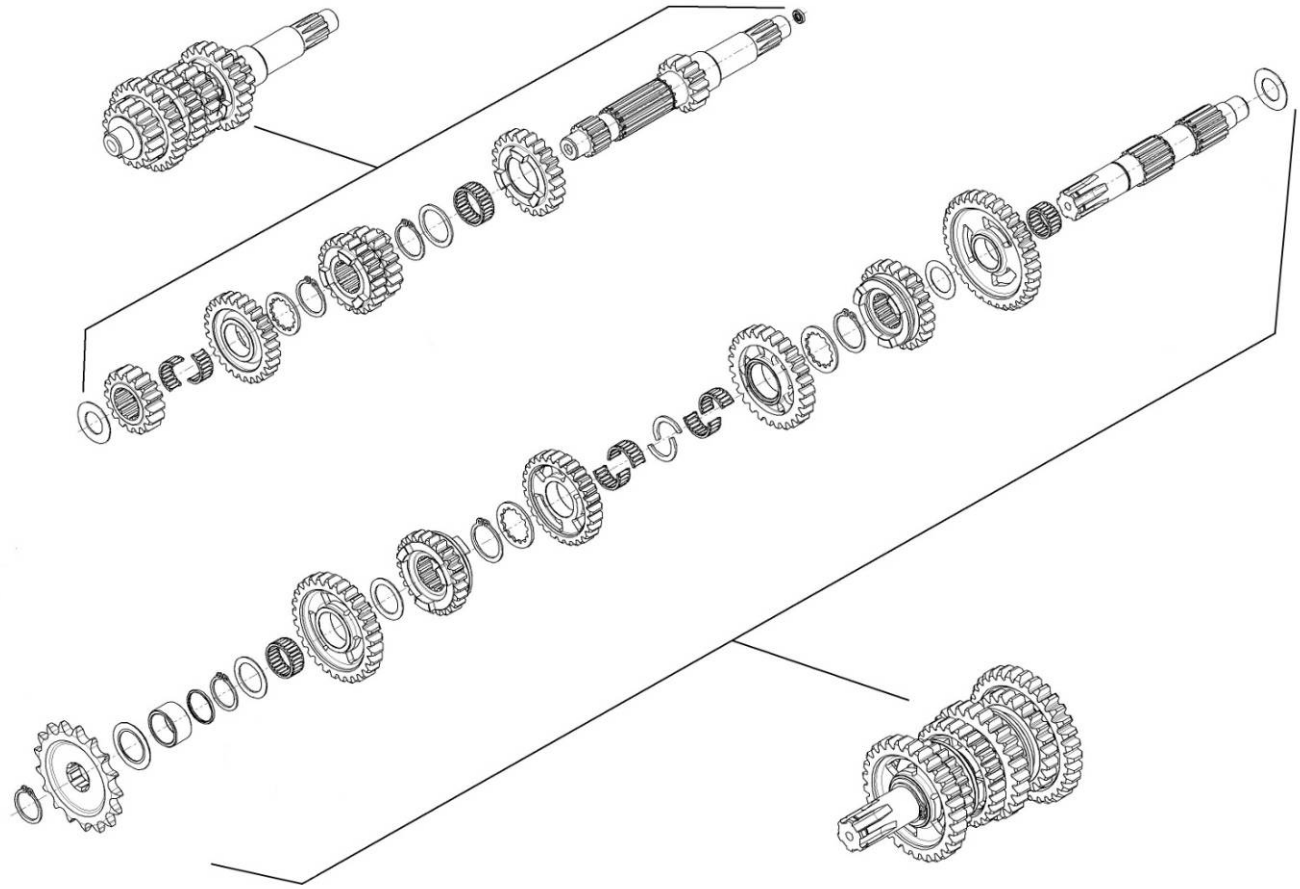
Mod. NOX (Righetti & Ridolfi)
Hom. CIK/FIA 19/SA/18
Ø30mm or/*ou* Ø23mm
Following technical regulation
Selon règlement technique

GEARBOX - *BOÎTE DE VITESSES*

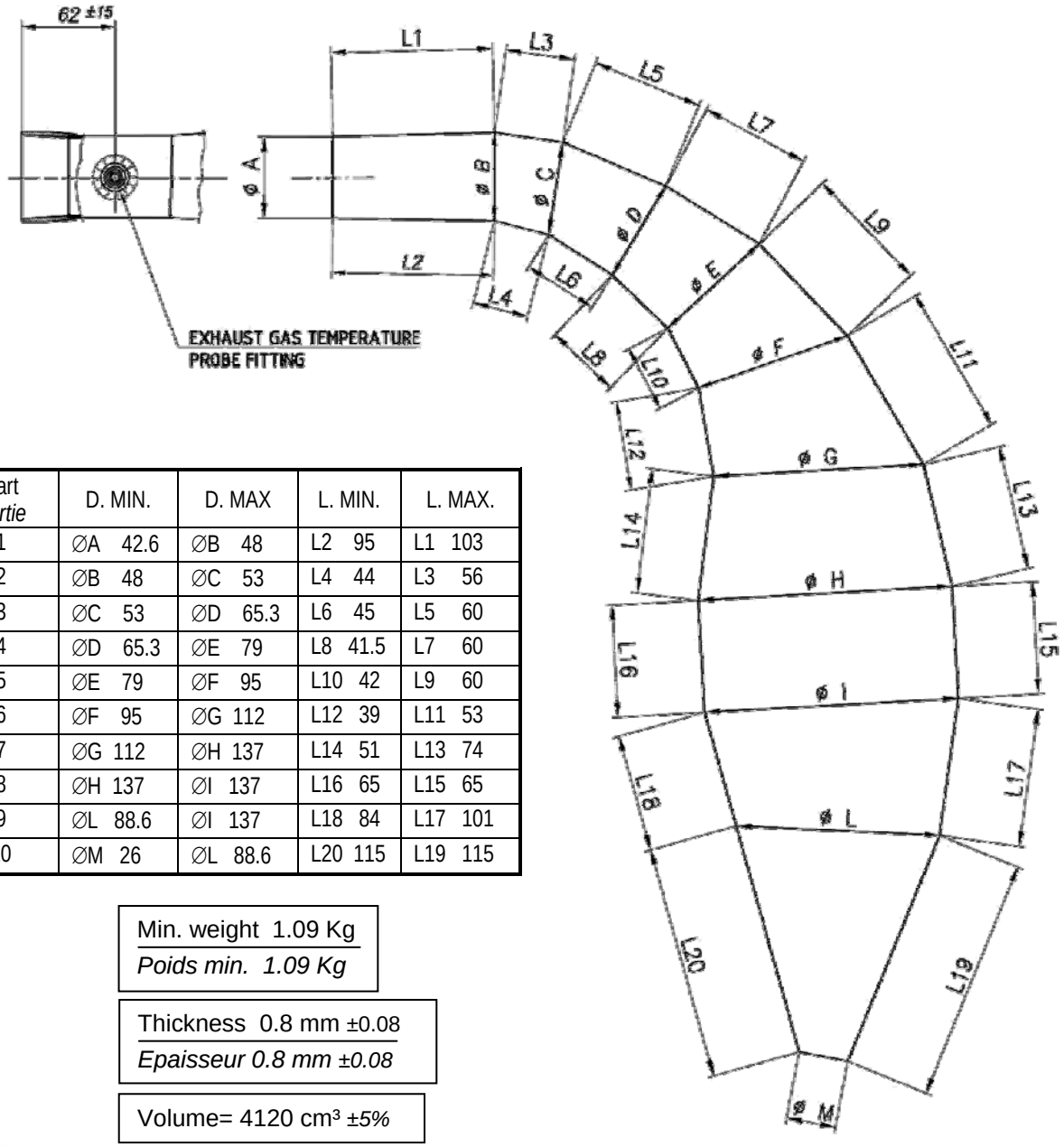
Primary coupling - *Couple primaire* **19 / 75**

Gearbox ratios		*Rapports de boîte de vitesses*	
Gear - *Vitesse*	Primary shaft *Arbre primaire*	Secondary shaft *Arbre secondaire*	Reading of values obtained after three engine revs *Relevé des valeurs obtenues après trois tours moteur*
1st / 1ère	**13**	**33**	**107.78°**
2nd / 2e	**16**	**29**	**150.95°**
3rd / 3e	**18**	**27**	**182.40°**
4th / 4e	**22**	**27**	**222.93°**
5th / 5e	**22**	**23**	**261.70°**
6th / 6e	**27**	**25**	**295.49°**

EXPLODED DRAWING OF THE GEARS, MAINSHAFT AND SECONDARY SHAFT
DESSIN EXPLOSED DES ENGRANAGES, ARBRE PRIMARIE ET ARBRE SECONDARIE



EXHAUST VIEW, PHOTO, MARKING AND DIMENSIONS
VUE, PHOTO, MARQUAGE ET DIMENSIONS DE L'ÉCHAPPEMENT



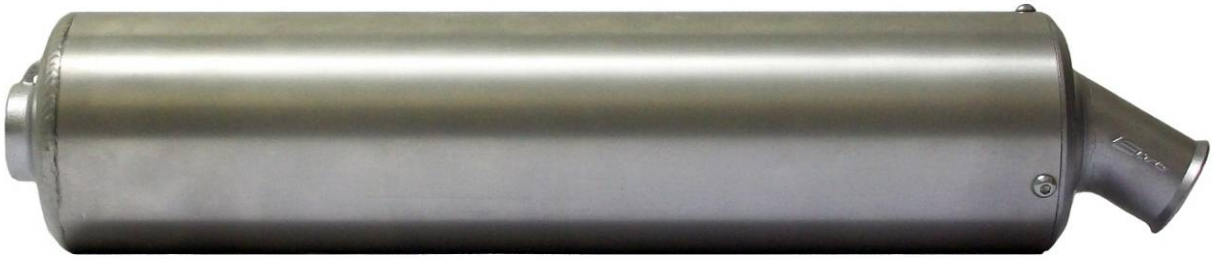
Part *Partie*	D. MIN.	D. MAX	L. MIN.	L. MAX.
1	ØA 42.6	ØB 48	L2 95	L1 103
2	ØB 48	ØC 53	L4 44	L3 56
3	ØC 53	ØD 65.3	L6 45	L5 60
4	ØD 65.3	ØE 79	L8 41.5	L7 60
5	ØE 79	ØF 95	L10 42	L9 60
6	ØF 95	ØG 112	L12 39	L11 53
7	ØG 112	ØH 137	L14 51	L13 74
8	ØH 137	ØI 137	L16 65	L15 65
9	ØL 88.6	ØI 137	L18 84	L17 101
10	ØM 26	ØL 88.6	L20 115	L19 115

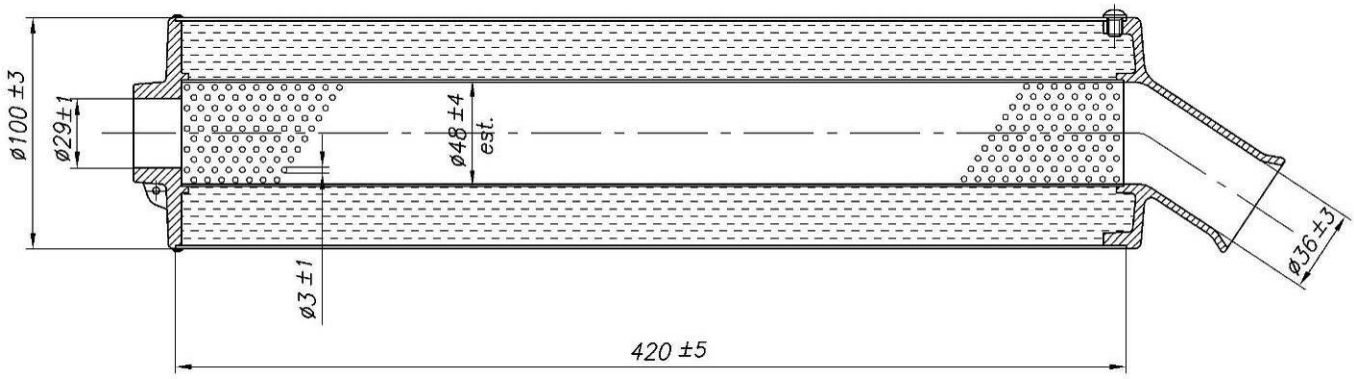
Min. weight 1.09 Kg
Poids min. 1.09 Kg

Thickness 0.8 mm ±0.08
Epaisseur 0.8 mm ±0.08

Volume= 4120 cm³ *±5%*

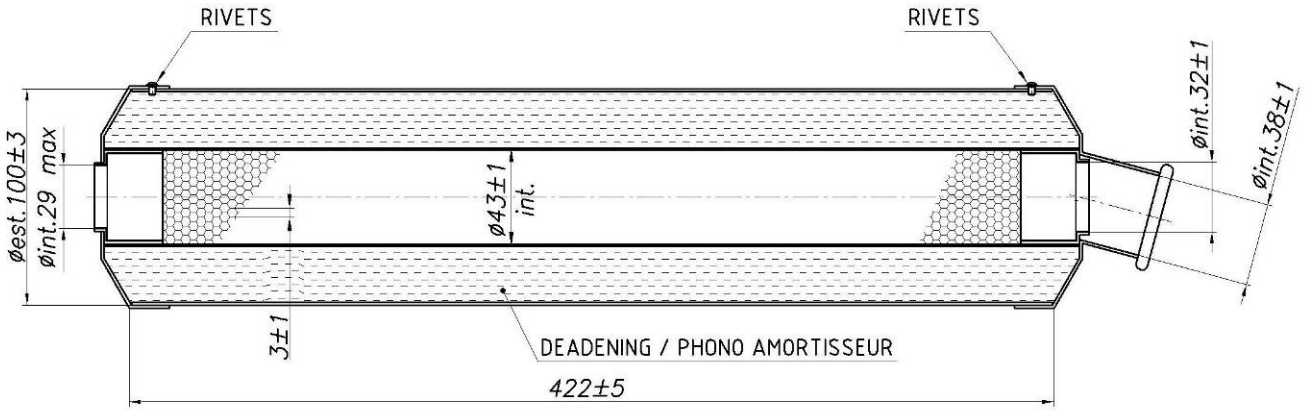
ELTO SILENCER VIEW, PHOTO AND DIMENSIONS
VUE, PHOTO ET DIMENSIONS DU SILENCIEUX ELTO





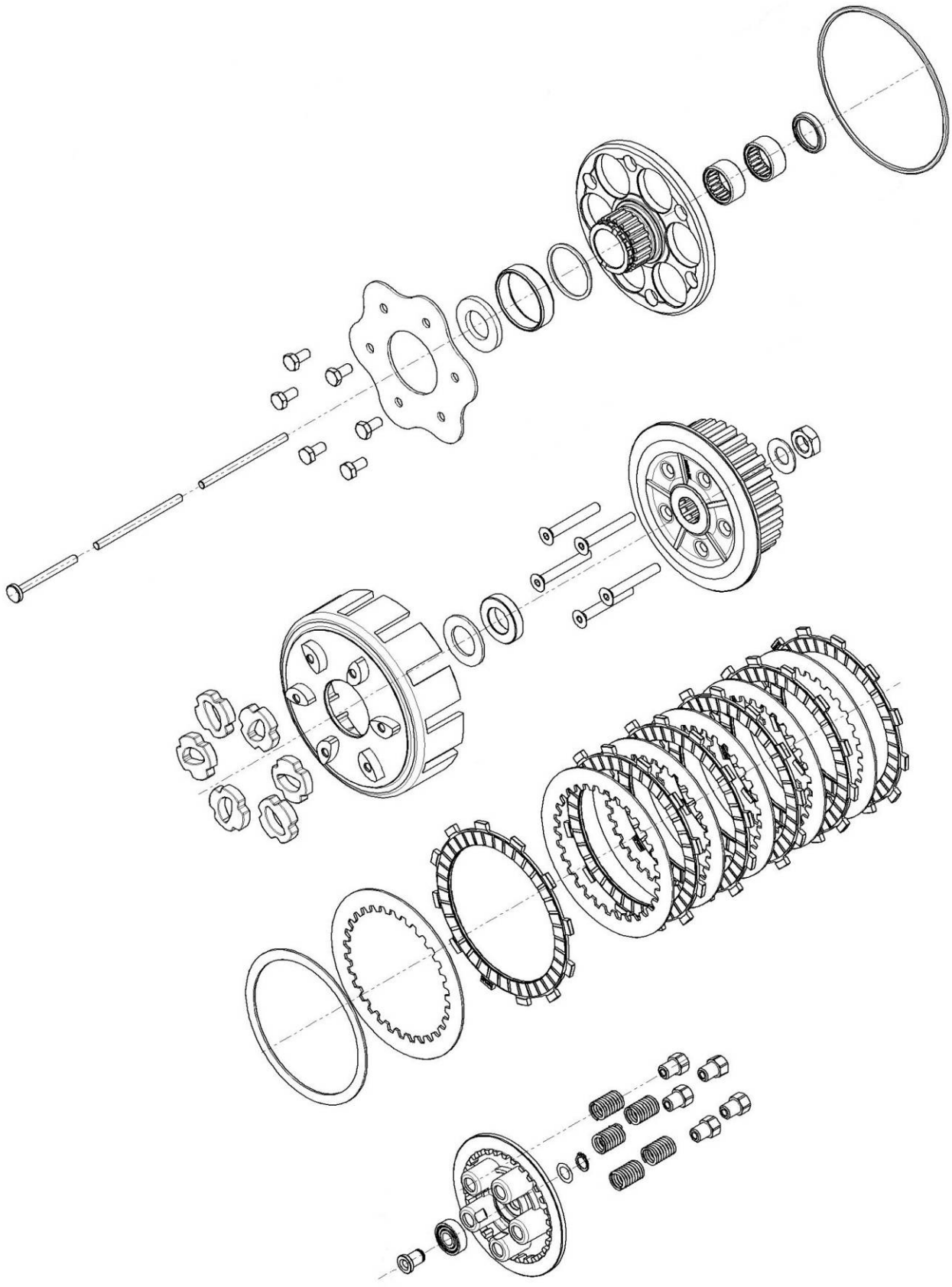
<u>"Elto Racing" Hom. FIK 104 1300 / 09 S</u>

MC RACING SILENCER VIEW, PHOTO AND DIMENSIONS
VUE, PHOTO ET DIMENSIONS DU SILENCIEUX MC RACING



<u>"MC Racing" Hom. CSAI 1041695 / 12</u>

EXPLODED DRAWING OF THE CLUTCH ASSEMBLY
DESSIN EXPLOSED DE L'EMBRAYAGECOMPLETE



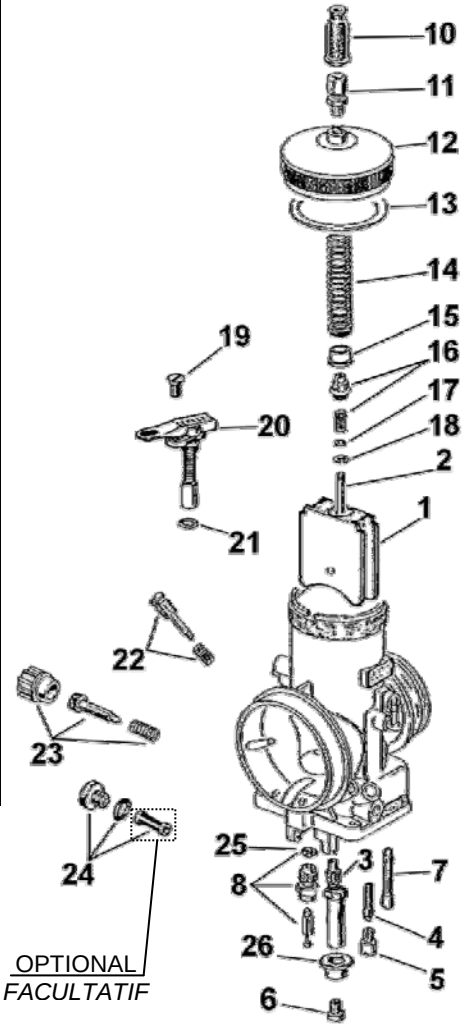
EXPLODED DRAWING AND VENTURI CARB. “DELLORTO VHSH 30-CS” DIMENSIONS
DESSIN EXPLOSÉ ET DIMENSIONS DU VENTURI DU CAR. “DELLORTO VHSH 30-CS”

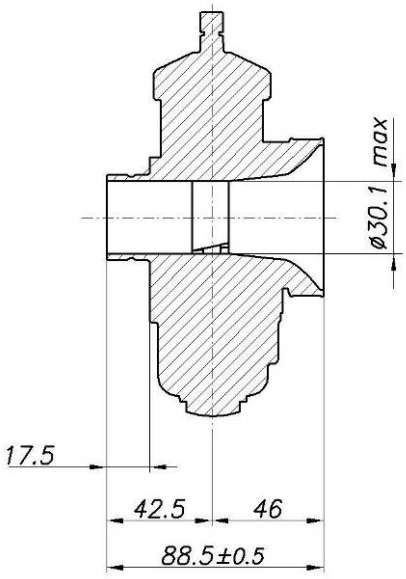
1. Throttle Valve - *SOUPAPE GAZ*
2. Conical Needle - *AIGUILLE CONIQUE*
3. Sprayer - *PULVERISATEUR*
4. Minimum Emulsifier - *EMULSIONNEUR*
5. L. Jet - *GICLEUR MIN.*
6. H Jet - *GILEUR MAX.*
7. Starter Jet - *GICLEUR DEMARREUR*
8. Neddle Valve - *POINTEAU*

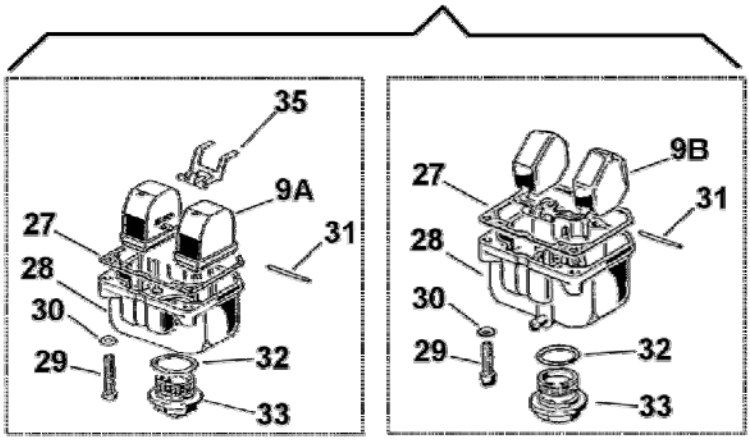
9A. Single Floating - *FLOTTEUR INDEPENDANT*

9B. Coupled Floating - *PAIRE DE FLOTTEUR*

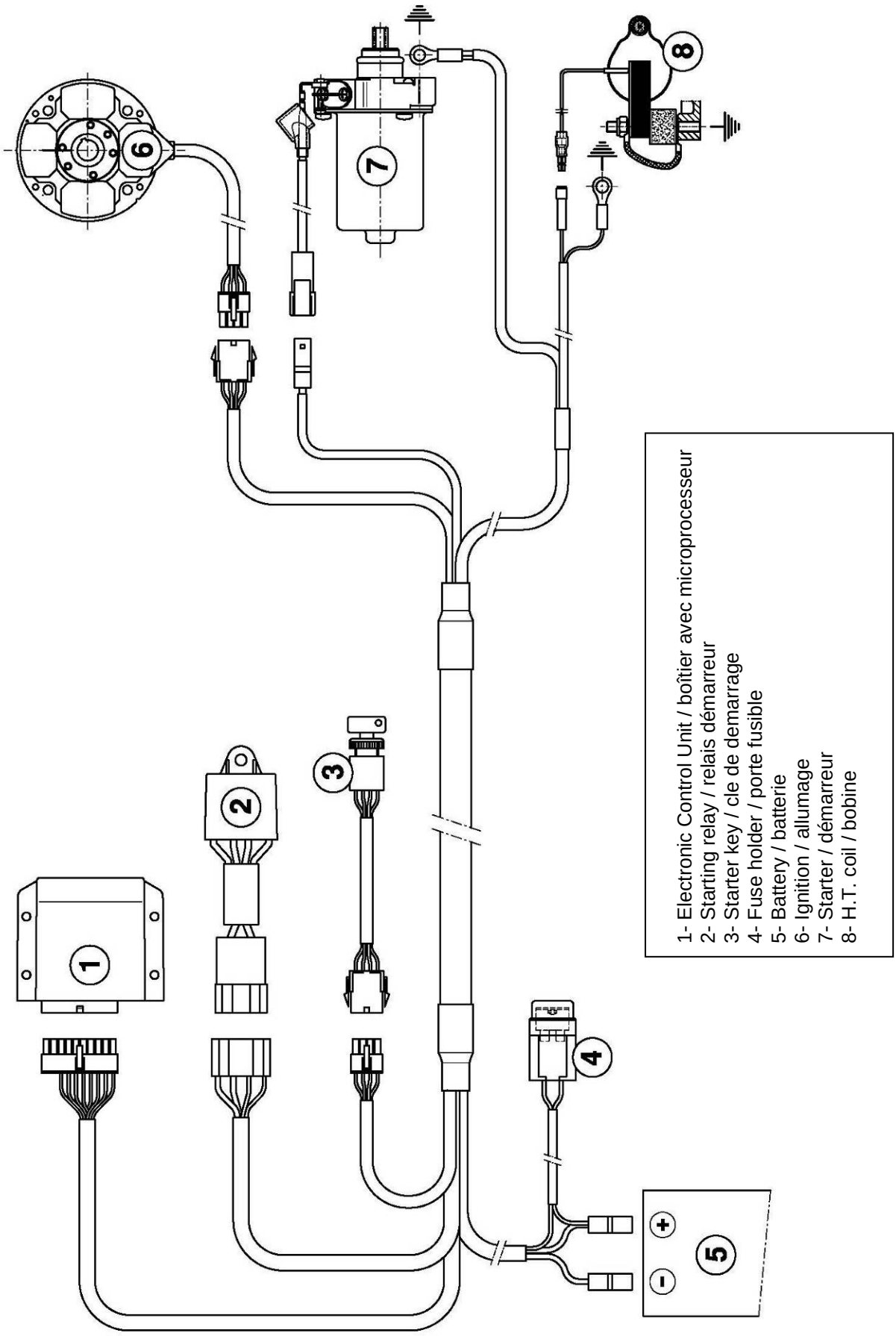
10. Cap - *BOUCHON*
11. Screw Adjuster - *VIS REGLAGE*
12. Cover Mixing Chamber - *COUVERCLE CHAMBRE DE MELANGE*
13. Cover Gasket - *JOINT COUVERCLE*
14. Throttle Return Spring - *RESSORT RETOUR SOUPAPE*
15. Bottom Spring Guide - *CULOT*
16. Nipple Throttle Valve + Spring - *RACCORD ROBINET GAZ + RESSORT*
17. Washer - *RONDELLE*
18. Clip Needle - *FERMOIR POINTEAU*
19. Start Fixing Screw - *VIS FIXATION DISPOSITIF DEMARRAGE*
20. *Starter Device* - *DISPOSITIF DEMARRAGE*
21. Starter Device Seal - *JOINT DISP. DEMARRAGE*
22. Idle Mixture Screw - VIS MELANGE MINIMUM
23. Kit Throttle Adjusting Screw - *KIT VIS REGLAGE SOUPAPE*
24. Kit Fuel Filter - *KIT FILTRE CARBURANT*
25. Needle Valve Seal - *JOINT POINTEAU*
26. Bottom - *CULOT*
27. Gasket - *JOINT*
28. Float Chamber - *CUVETTE*
29. Fixing Screw Float Chamber - *VIS FIXATION CUVETTE*
30. Spring Washer - *RONDELLE RESSORT*
31. Pin Float - *AXE DE FLOTTEUR*
32. Tank Cap Seal - *JOINT BOUCHON CUVETTE*
33. Float Chamber Plug - *BOUCHON CUVETTE*
35. Rocker Float - *BALANCIER FLOTTEUR*





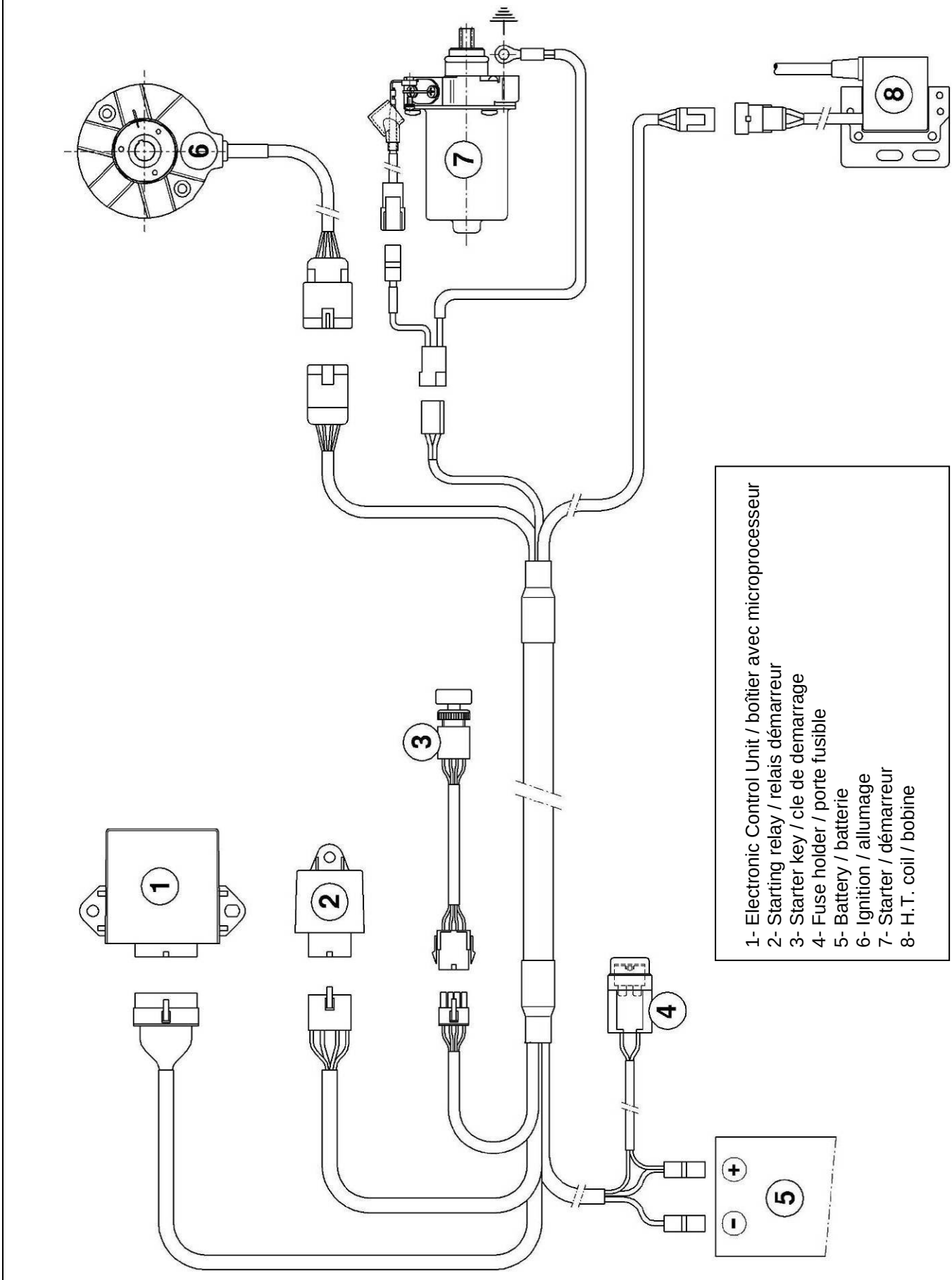


WIRING DIAGRAM (SELETTRA DIGITAL ‘‘K’’ IGNITION)
SCHEMA CIRCUIT ELECTRIQUE (ALLUMAGE SELETTRA DIGITAL ’’K’’)

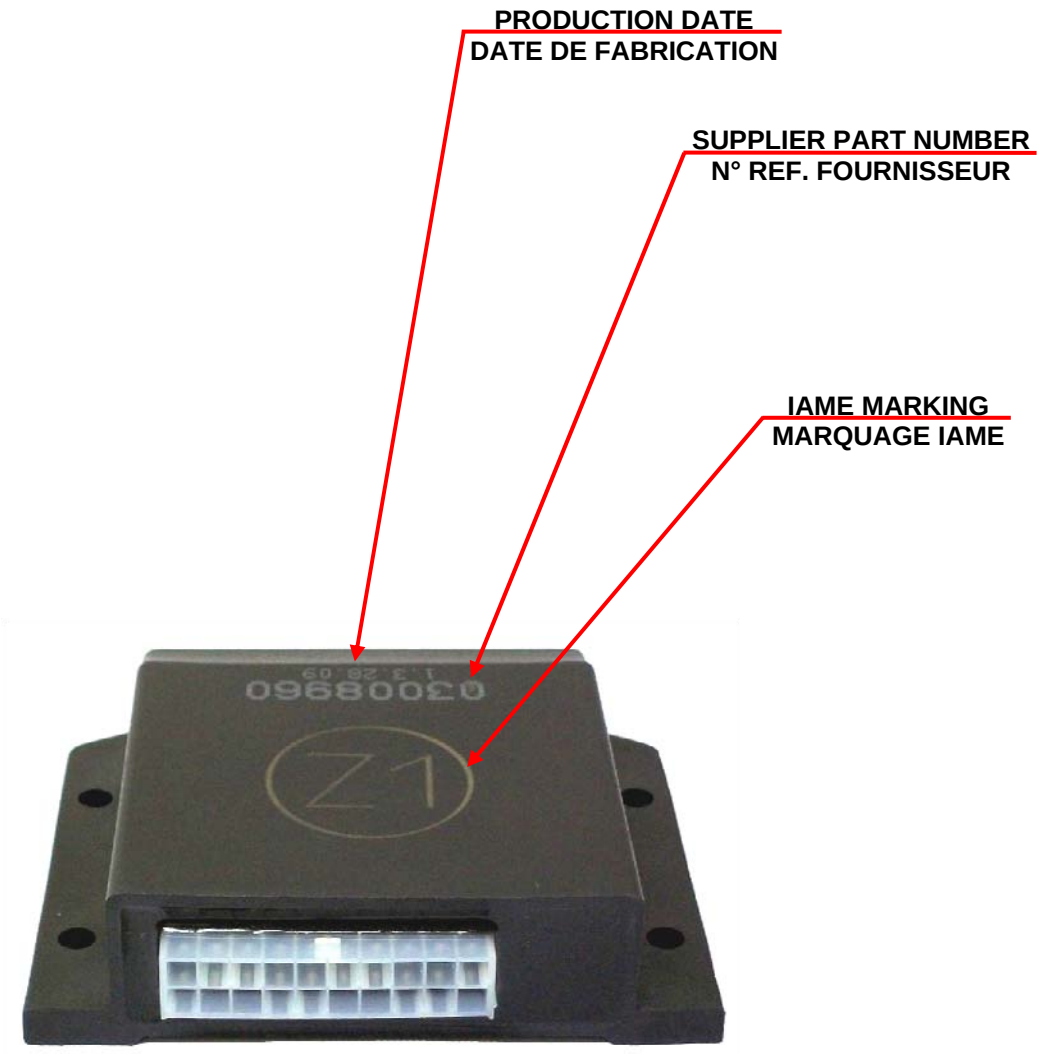


WIRING DIAGRAM (PVL DIGITAL ‘‘K’’ IGNITION)

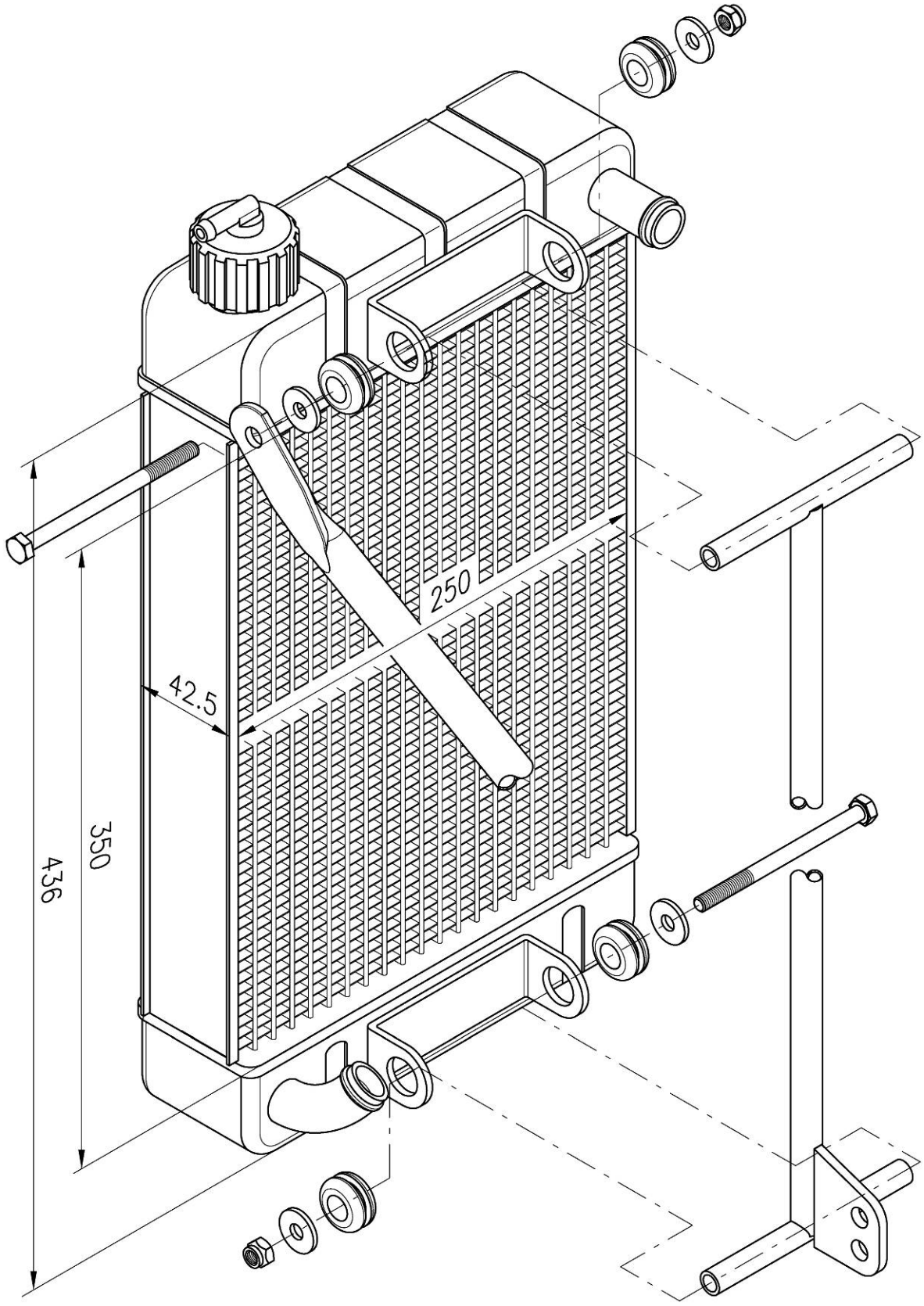
SCHEMA CIRCUIT ELECTRIQUE (ALLUMAGE PVL DIGITAL ’’K’’)



SELETTRA - ELECTRONIC BOX MARKING
SELETTRA - MARQUAGE DU BOITIER ELECTRONIQUE



EXPLODED DRAWING OF THE RADIATOR WITH ITS ATTACHMENTS
DESSIN EXPLOSÉ DU RADIATEUR AVEC SES FIXATIONS

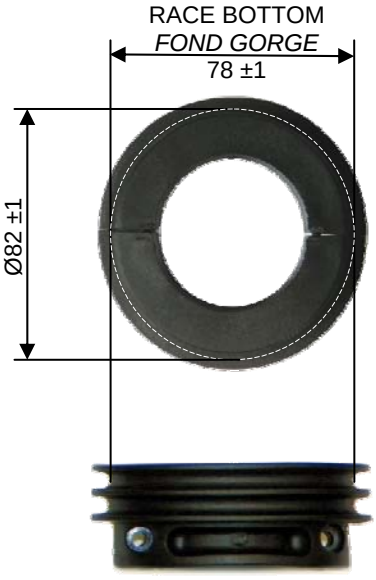


RADIATOR AND ITS SUPPORTS
RADIATEUR ET SES SUITIEN

FRONT / *AVANT*

REAR / *ARRIERE*

WATER PUMP GROUP
GROUPE POMPE A' EAU



RACE BOTTOM
FOND GORGE
Ø19 ±1

THERMOSTAT

ALTERNATIVE

PISTON IDENTIFICATION MARKING
MARQUAGE D'IDENTIFICATION PISTON

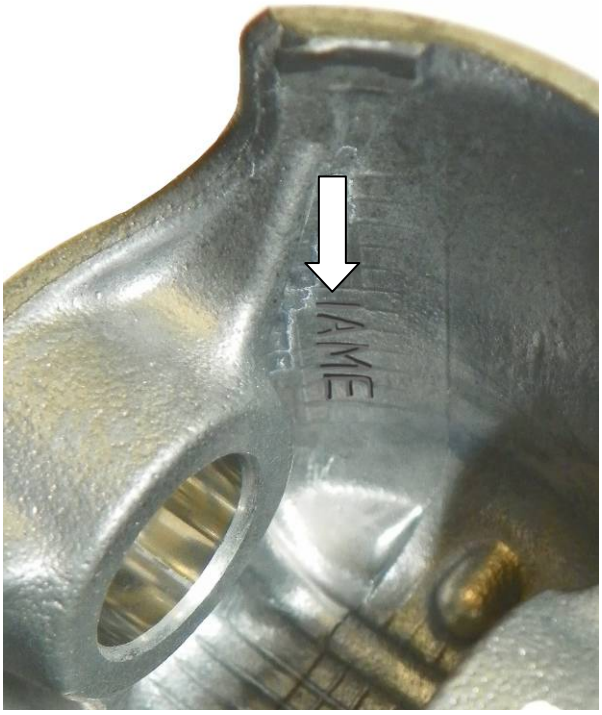
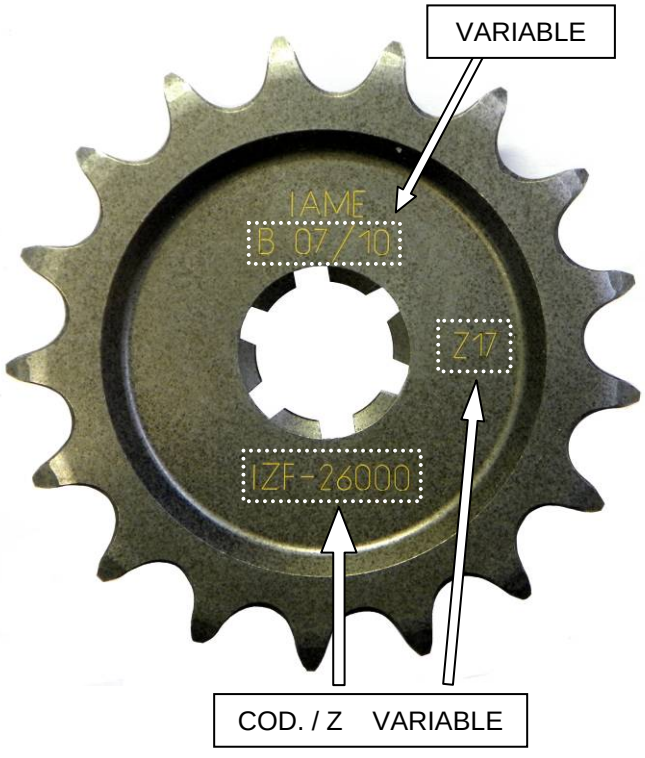
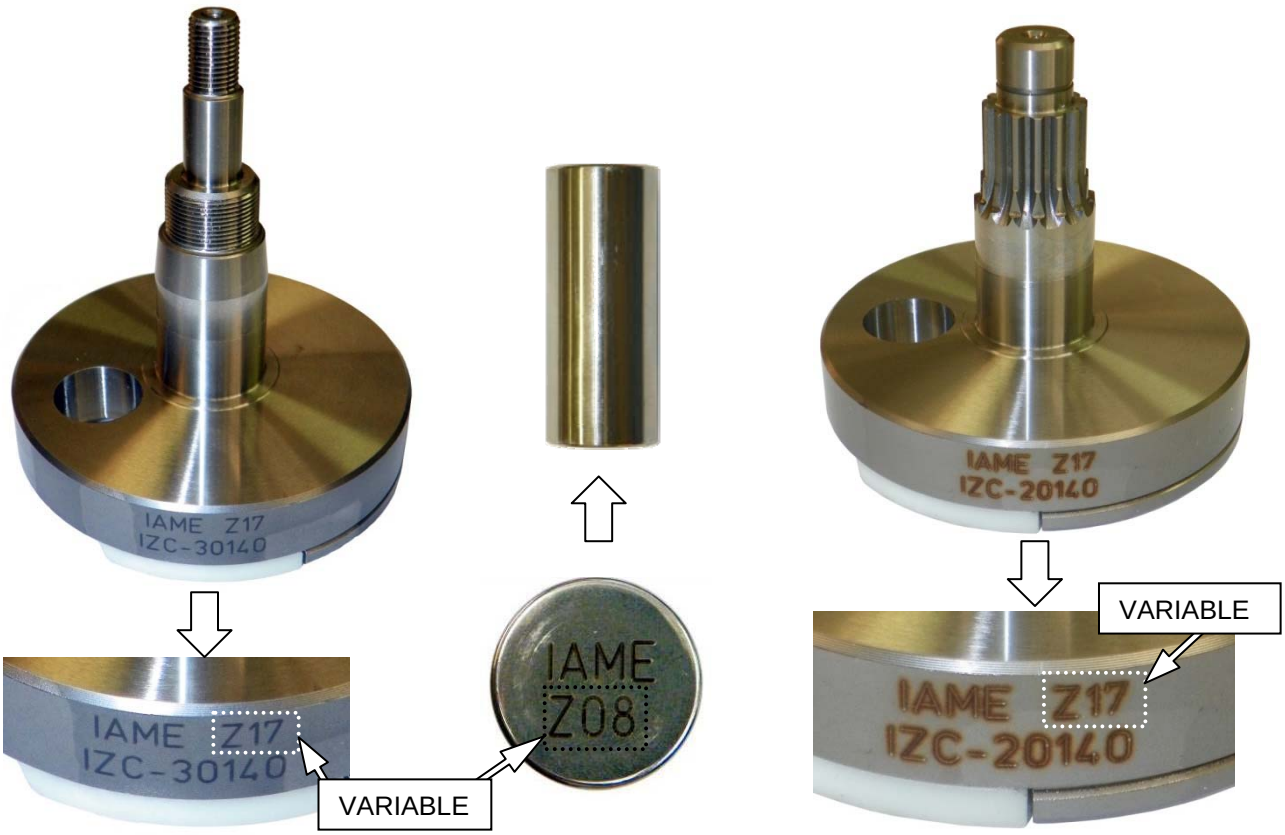


PHOTO IDENTIFICATION CONROD
MARQUAGE D'IDENTIFICATION BIELLE

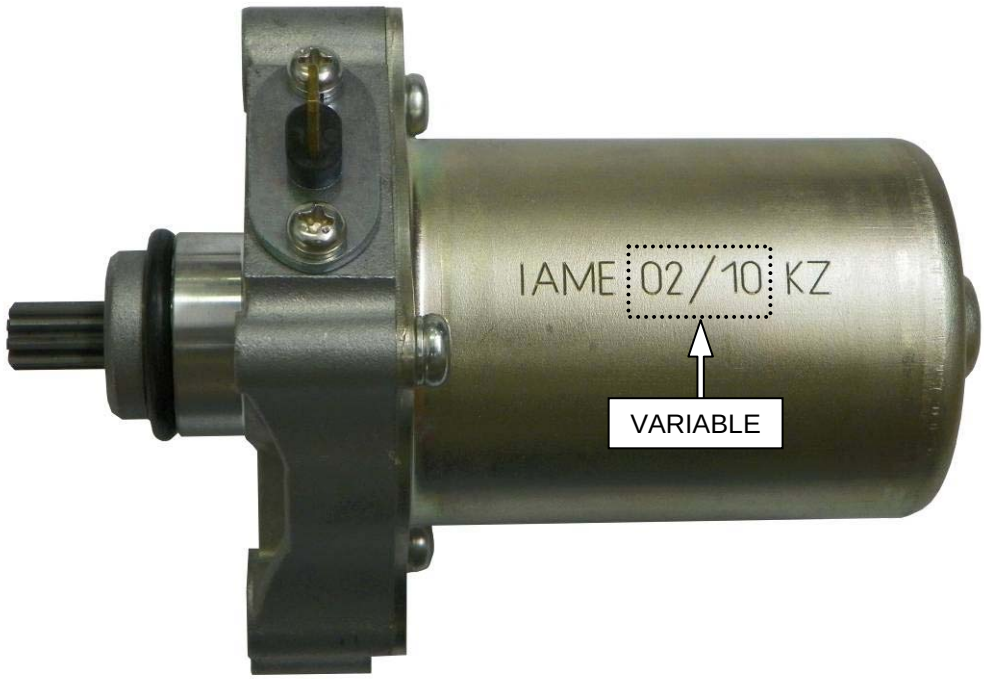
SPROCKET IDENTIFICATION MARKING
MARQUAGE D'IDENTIFICATION DU PIGNON



CRANKSHAFT IDENTIFICATION MARKING
MARQUAGE D'IDENTIFICATION DU VILEBREQUIN



STARTER IDENTIFICATION MARKING
MARQUAGE D'IDENTIFICATION DU MOTEUR DEMARREUR



REED GROUP & PETALS IDENTIFICATION MARKING
MARQUAGE D'IDENTIFICATION DE LA PYRAMIDE DE CLAPETS & CLAPETS

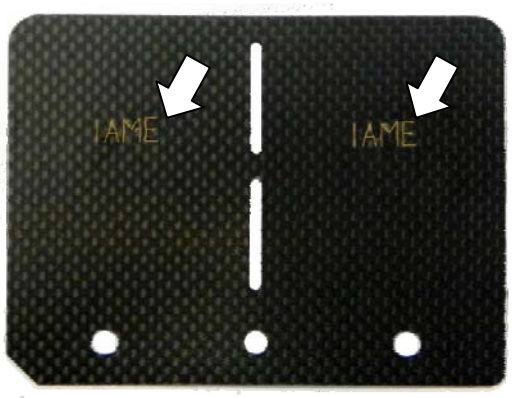
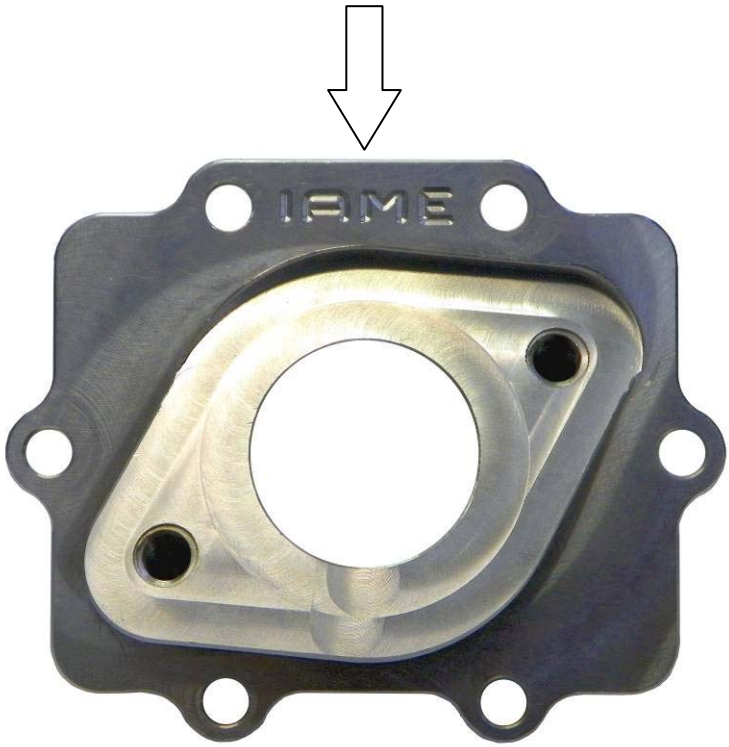
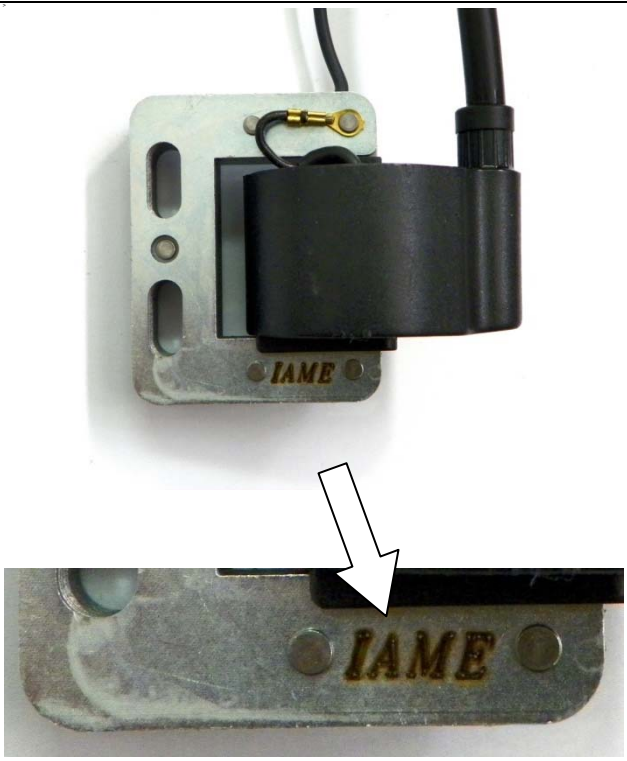
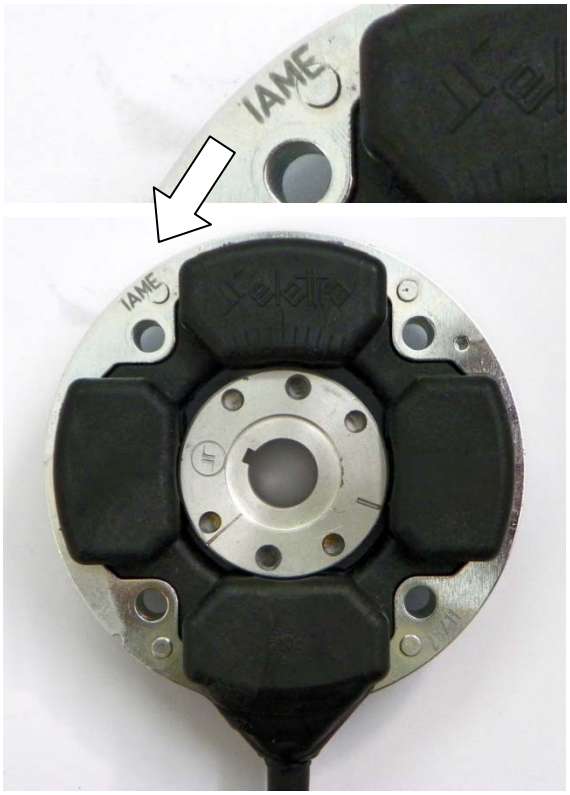


PHOTO IDENTIFICATION CARBURETOR INLET CONVEYOR
MARQUAGE D'IDENTIFICATION DU COLLECTEUR D'ASPIRATION



H.T. COIL IDENTIFICATION MARKING *MARQUAGE DE LA BOBINE*	STATOR IDENTIFICATION MARKING *MARQUAGE D'IDENTIFICATION DU STATOR*
	

BENDIX COVER IDENTIFICATION MARKING
MARQUAGE D'IDENTIFICATION DU COUVERCLE DU COUNTRE-ARBRE DE DEMARRAGE