
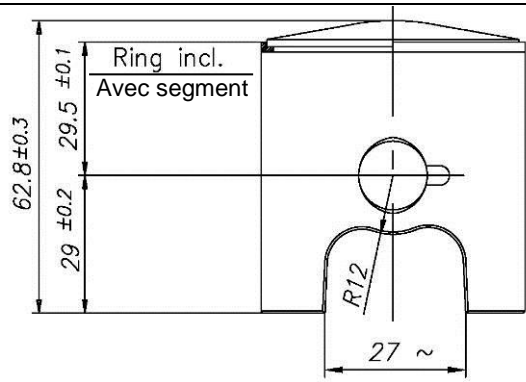
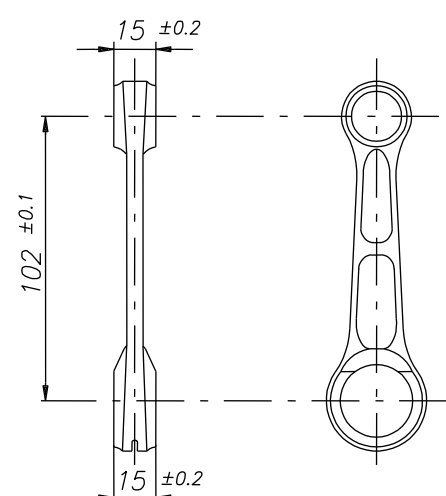
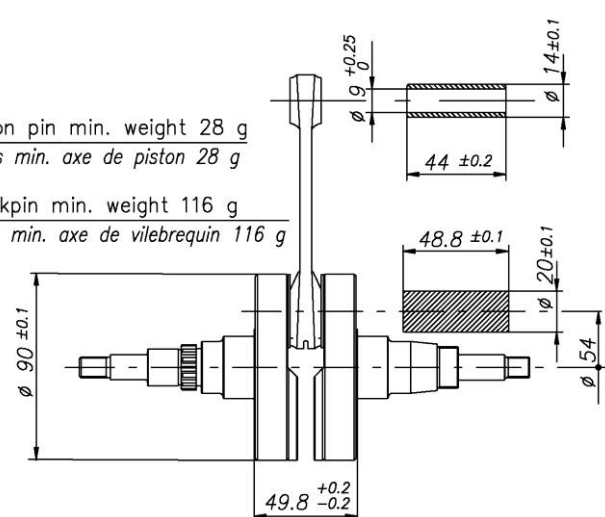
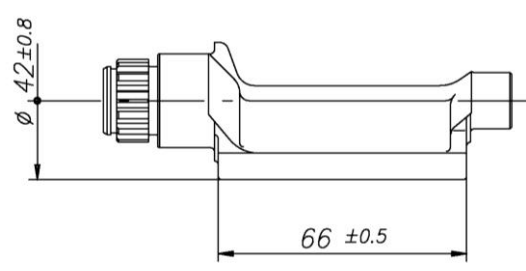


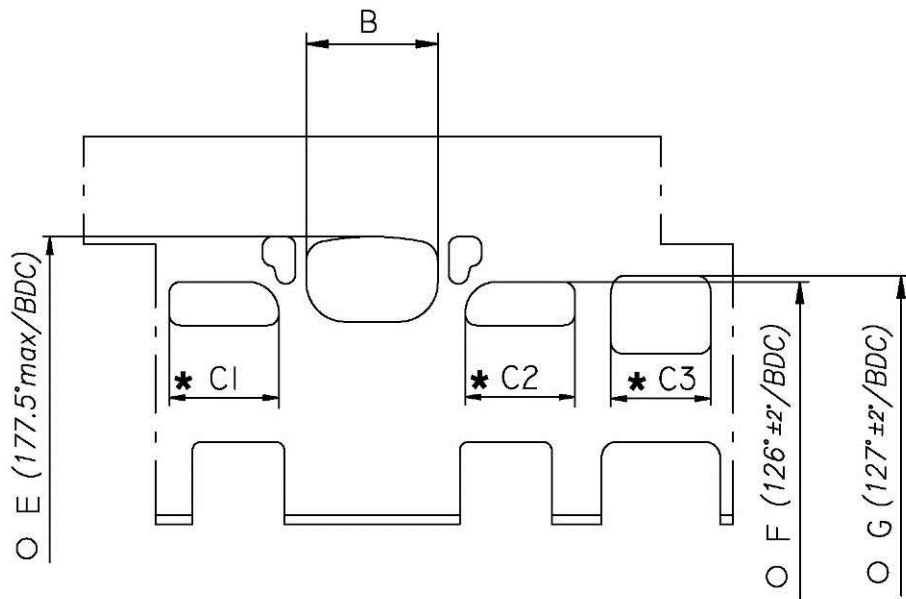


## B - Cadet 125cc RL - F - TaG

		FEATURES – CARACTERISTIQUES	
		Cylinder volume <i>Volume du cylindre</i>	123.67 cm <sup>3</sup>
		Bore <i>Alésage</i>	54 mm
		Max. theoretical bore <i>Alésage théorique max.</i>	54.28 mm
		Stroke <i>Course</i>	54 mm
		Cooling system <i>Système de refroidissement</i>	Water <i>Eau</i>
		Inlet system <i>Système d'admission</i>	Reed valve <i>À clapets</i>
Carburetor <i>Carburateur</i>	Tryton Hobby 27/C	Cylinder / crankcase transfers n° <i>N° de canaux cylindre / carter</i>	3
Number of piston rings <i>Nombre de segments</i>	1	Inlet / exhaust ports number <i>N° lumières adm. / échapp.</i>	3
Big end conr. ball-bearing diam. <i>Diamètre palier tête de bielle</i>	20x26x15	Combustion chamber shape <i>Forme chambre de combustion</i>	Spherical <i>Sphérique</i>
Crankshaft ball-bearing diam. <i>Diamètre palier du vilebrequin</i>	30x62x16	Selettra or PVL ignition <i>Allumage Selettra ou PVL</i>	Digital
Small end conr. ball-bearing diam. <i>Diamètre palier pied de bielle</i>	14x18x17.5	RPM limiter <i>Limiteur de tours</i>	Yes <i>Oui</i>
Distance between conrod centers <i>Longueur (entre axe) de la bielle</i>	102 mm	Generator for battery charging <i>Générateur de recharge batterie</i>	Yes <i>Oui</i>
Balancing shaft <i>Arbre d'équilibrage de vilebr.</i>	Yes <i>Oui</i>	Electric starter <i>Démarrateur électrique</i>	Yes <i>Oui</i>

DESCRIPTION OF THE MATERIAL DESCRIPTION DES MATERIAUX		PISTON	
Conrod material <i>Matériel de la bielle</i>	Steel <i>Acier</i>	 <p>Piston min. weight (ring incl.) 128 g Poids min. piston (avec segment) 128g</p>	
Crankshaft material <i>Matériel du vilebrequin</i>	Steel <i>Acier</i>		
Balancing shaft material <i>Matériel de l'arbre d'équilibrage</i>	Steel <i>Acier</i>		
Gears material <i>Matériel des engrenages</i>	Steel <i>Acier</i>		
Starter ring material <i>Matériel de la couronne démarr.</i>	Steel <i>Acier</i>		
Head material <i>Matériel de la culasse</i>	Aluminium		DISTANCE BETWEEN CONROD CENTERS ENTRE AXE DE LA BIELLE
Cylinder material <i>Matériel du cylindre</i>	Aluminium	 <p>Min. weight 110 g Poids min. 110 g</p>	
Liner material <i>Matériel de la chemise</i>	Iron <i>Fonte</i>		
Crankcase material <i>Matériel du carter</i>	Aluminium		
Piston material <i>Matériel du piston</i>	Aluminium		
Piston rings material <i>Matériel des segments</i>	Iron <i>Fonte</i>		
Exhaust muffler material <i>Matériel du pot d'échappement</i>	Sheet-steel <i>Tôle acier</i>		
Ball-bearings <i>Roulements</i>	6206 type		
CRANKSHAFT - VILEBREQUIN			BALANCING SHAFT ARBRE D'EQUILIBRAGE
 <p>Piston pin min. weight 28 g Poids min. axe de piston 28 g</p> <p>Crankpin min. weight 116 g Poids min. axe de vilebrequin 116 g</p> <p>Complete crankshaft min. weight 2150 g Poids min. du vilebrequin complet 2150 g</p>			 <p>Min. weight 315 g Min. weight 315 g</p>

# CYLINDER DEVELOPMENT - DEVELOPPEMENT DU CYLINDRE



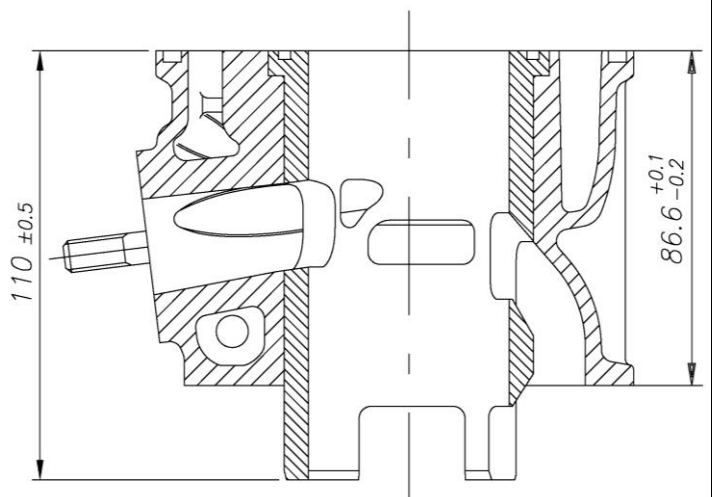
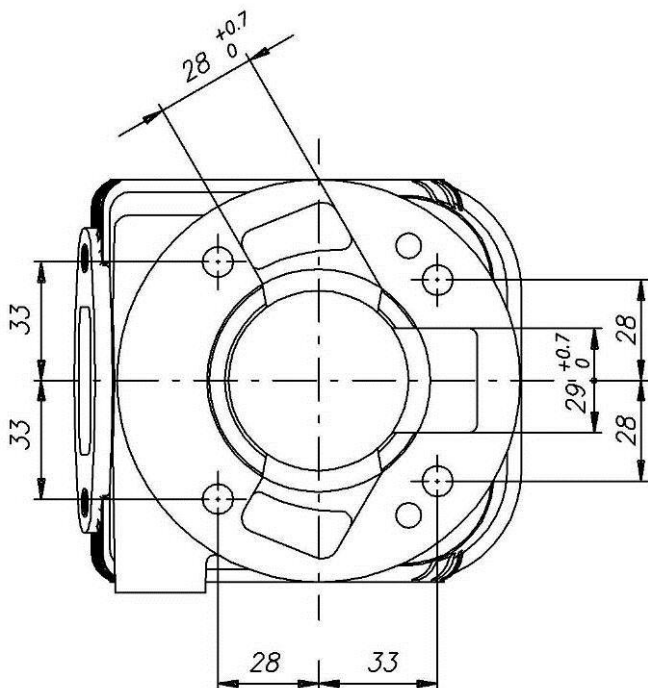
B	$\leq 36.5 \text{ mm}$
C1 = C2	$\leq 30 \text{ mm}$
C3	$\leq 28.5 \text{ mm}$
E	$177.5^\circ \text{ max}$
F	$126^\circ \pm 2^\circ$
G	$127^\circ \pm 2^\circ$

\* **CHORDAL READING**  
LECTURE CORDALE

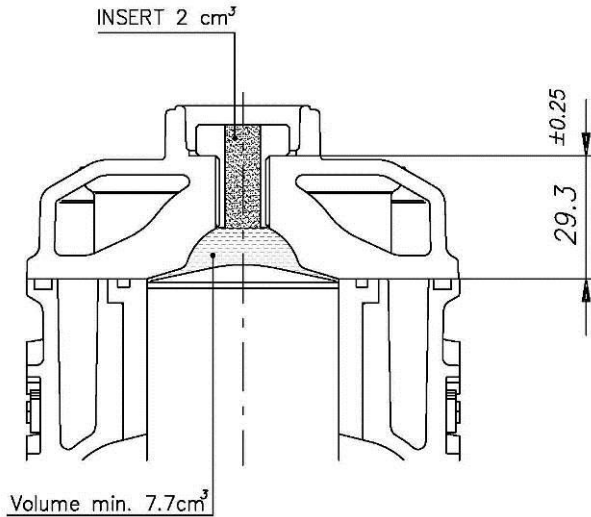
○ **ANGULAR READING BY INSERTING A 0.2x5 mm GAUGE**  
LECTURE ANGULAIRE PAR INSERTION D'UNE CALE DE 0.2x5 mm

CYLINDER BASE VIEW  
VUE DE LA BASE DU CYLINDRE

CYLINDER CROSS SECTION VIEW  
VUE EN SECTION DU CYLINDRE



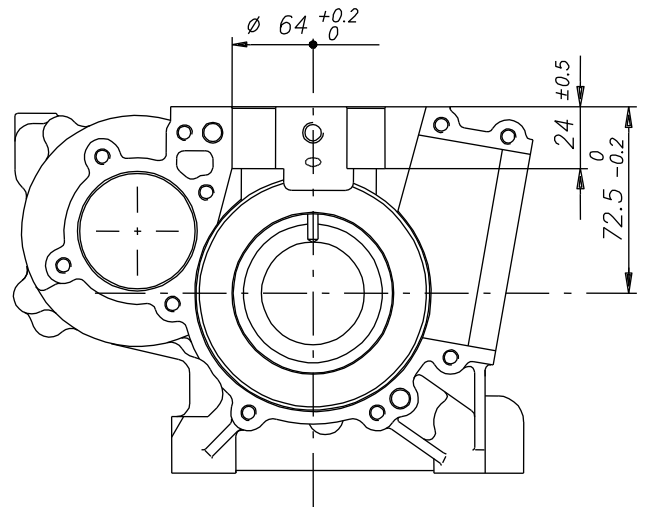
**COMBUSTION CHAMBER VIEW**  
**VUE DE LA CHAMBRE DE COMPRESSION**



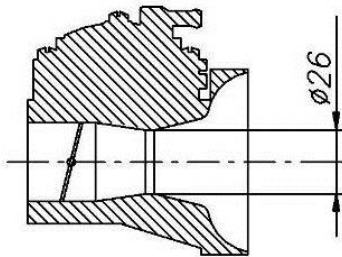
**COMBUSTION CHAMBER VOLUME TOT. = 9.7 cm<sup>3</sup> min.**  
**VOLUME CHAMBER COMBUSTION TOT. = 9.7 cm<sup>3</sup> min.**

**ATT.: SQUISH MIN. = 0.90 mm**  
 (measured with Ø1.5mm TIN - mesurée avec de l'étain Ø1.5mm)

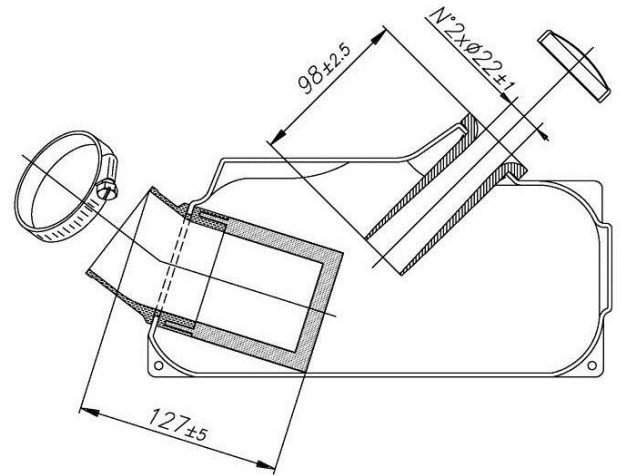
**CRANKCASE INSIDE VIEW**  
**VUE A' L' INTERIEUR DU CARTER**



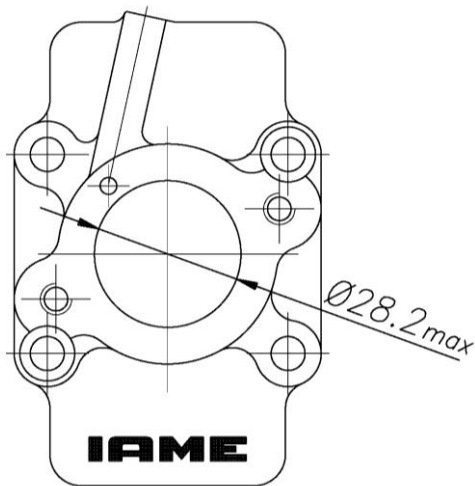
**VENTURI CARB. DIMENSIONS**  
**DIMENSIONS DU VENTURI DU CARBURATEUR**



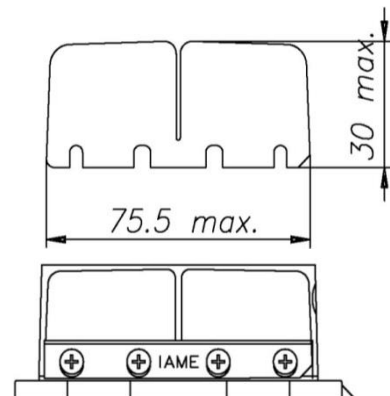
**INLET SILENCER**  
**SILENCIEUX D' ASPIRATION**



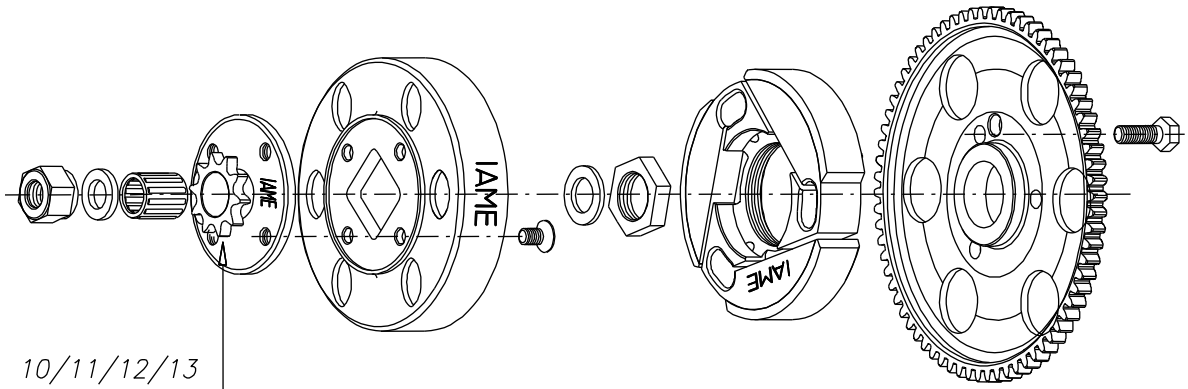
**INLET CONVEYOR DIMENSIONS**  
**CONVOYEUR D'ADMISSION**



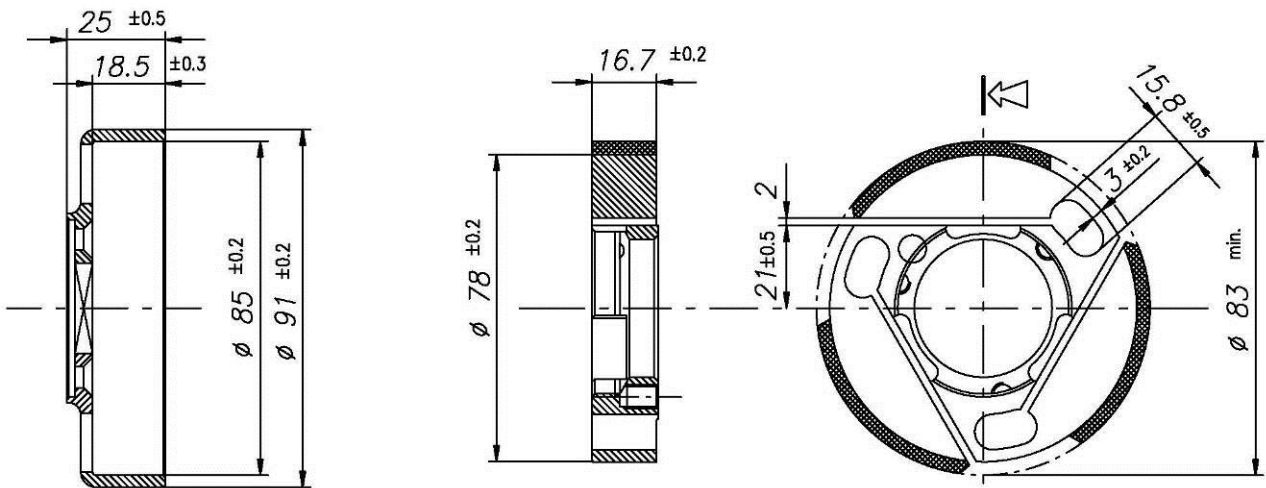
**REEDS DIMENSIONS / CLAPETS**



DESCRIPTION OF THE CLUTCH - DESCRIPTION DE L' EMBRAYAGE



Z= 10/11/12/13

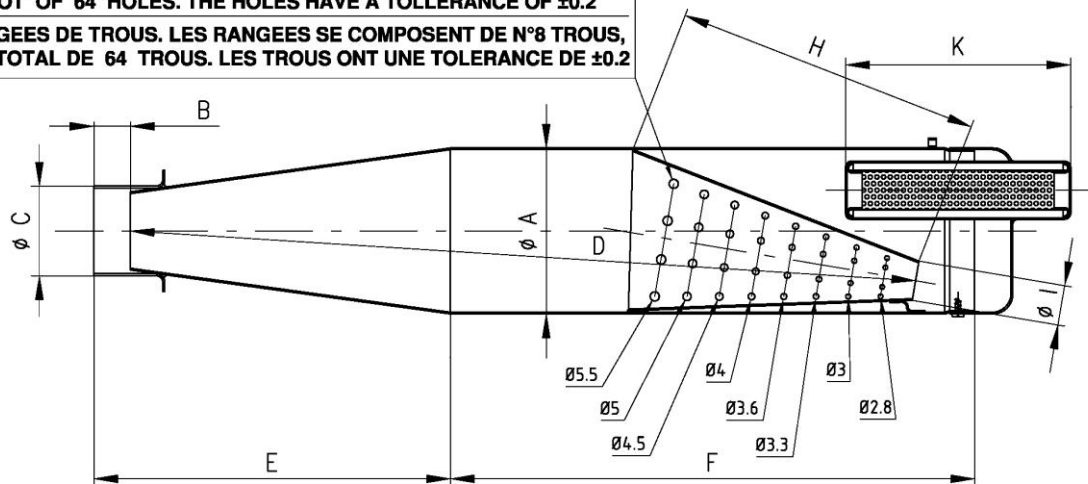


Min. weight 225 g  
Poids min. 225 g

Min. weight 360 g  
Poids min. 360 g

EXHAUST MUFFLER VIEW AND DIMENSIONS  
VUE ET DIMENSIONS DU SILENCIEUX D' ECHAPPEMENT

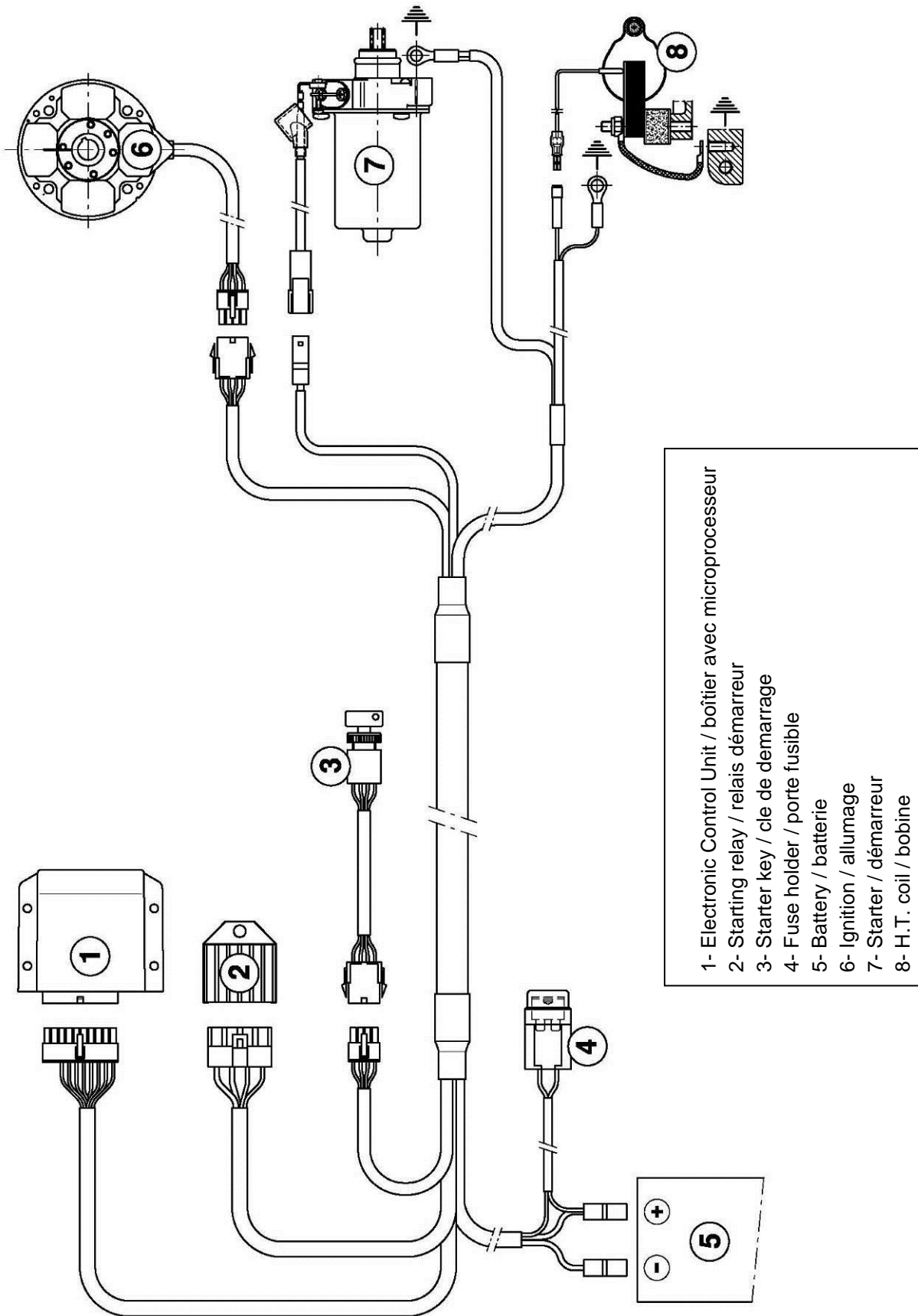
N° 8 ROWS OF HOLES. THE ROWS ARE COMPOSED OF N°8 HOLES,  
FOR A TOT OF 64 HOLES. THE HOLES HAVE A TOLLERANCE OF ±0.2  
N° 8 RANGEES DE TROUS. LES RANGEES SE COMPOSENT DE N°8 TROUS,  
POUR UN TOTAL DE 64 TROUS. LES TROUS ONT UNE TOLLERANCE DE ±0.2



A: 100 ±1 $\phi$ ext.	D: 485 ±5	H: 180 ±5
B: 22 ±1	E: 218 ±5	I: 24 ±2 $\phi$ ext.
C: 54 ±1 $\phi$ ext.	F: 315 ±3	K: 130 ±3

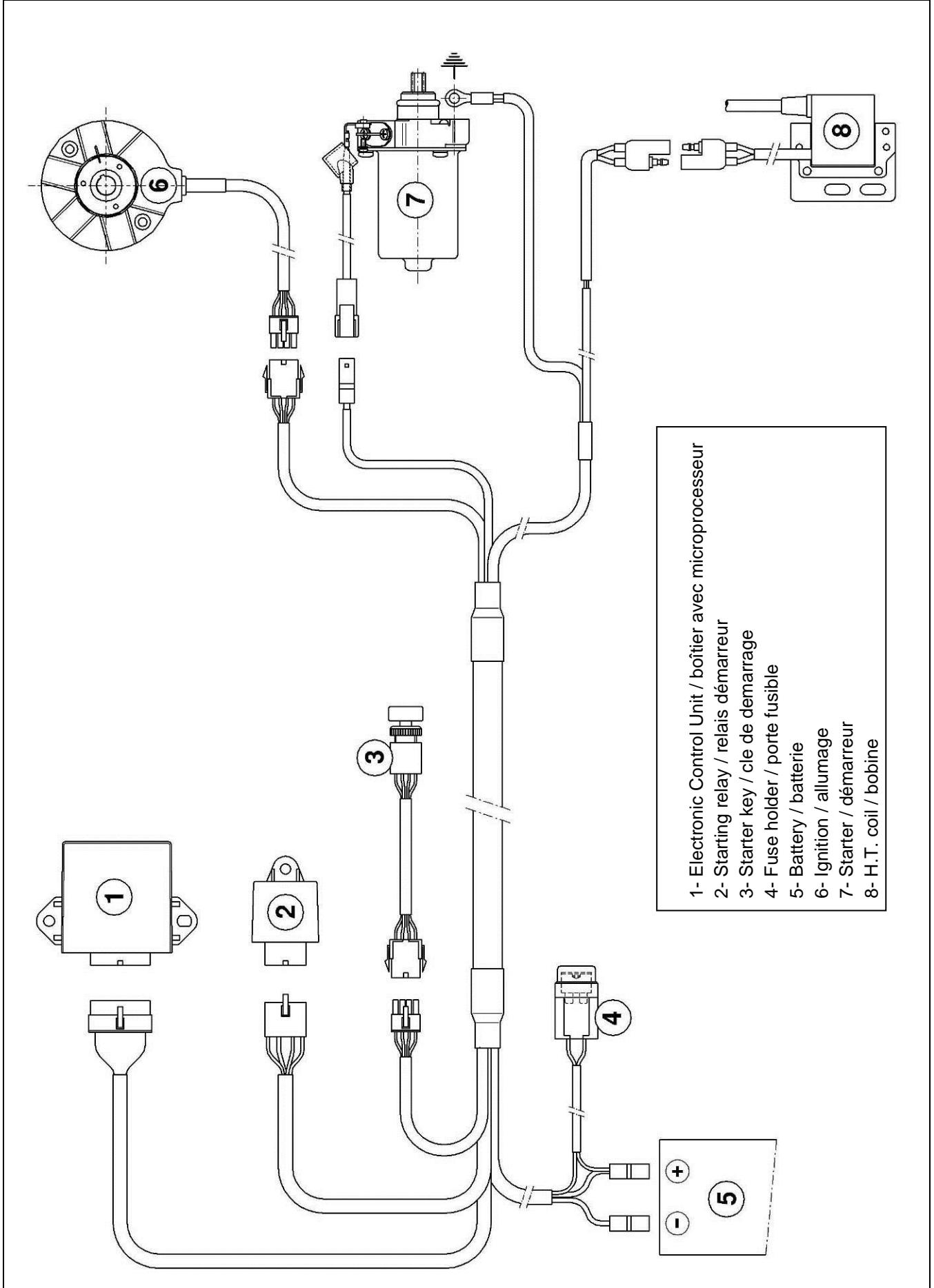
Min. weight 1.39 Kg  
Poids min. 1.39 Kg

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



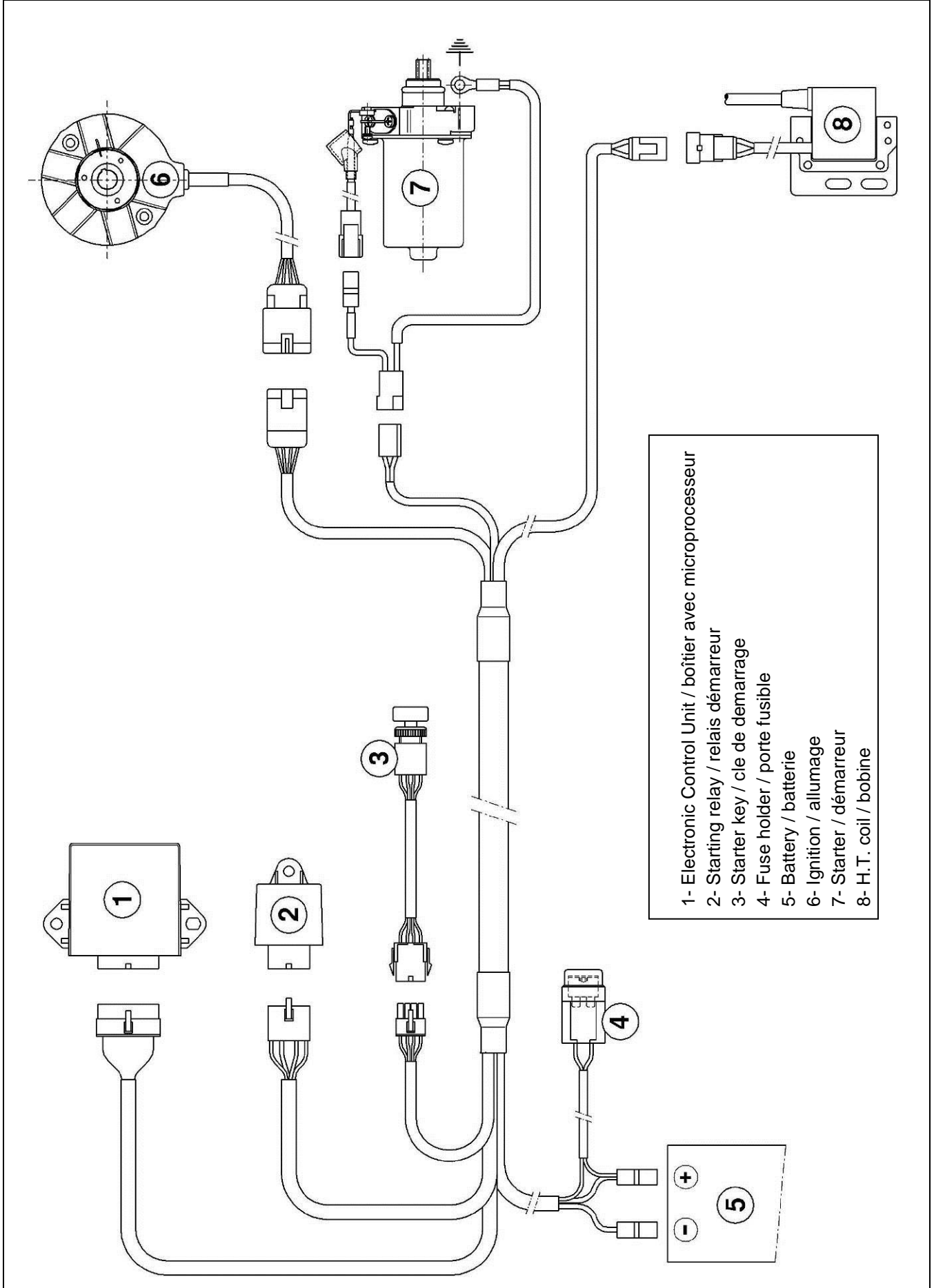
- 1- Electronic Control Unit / boîtier avec microprocesseur
- 2- Starting relay / relais démarrage
- 3- Starter key / cle de démarrage
- 4- Fuse holder / porte fusible
- 5- Battery / batterie
- 6- Ignition / allumage
- 7- Starter / démarreur
- 8- H.T. coil / bobine

WIRING DIAGRAM ( PVL IGNITION, 1<sup>st</sup> TYPE )  
 SCHEMA CIRCUIT ELECTRIQUE ( ALLUMAGE PVL, 1<sup>er</sup> TYPE )



- 1- Electronic Control Unit / boîtier avec microprocesseur
- 2- Starting relay / relais démarrage
- 3- Starter key / cle de démarrage
- 4- Fuse holder / porte fusible
- 5- Battery / batterie
- 6- Ignition / allumage
- 7- Starter / démarrage
- 8- H.T. coil / bobine

WIRING DIAGRAM ( PVL IGNITION, 2<sup>nd</sup> TYPE )  
 SCHEMA CIRCUIT ELECTRIQUE ( ALLUMAGE PVL, 2<sup>ème</sup> TYPE )

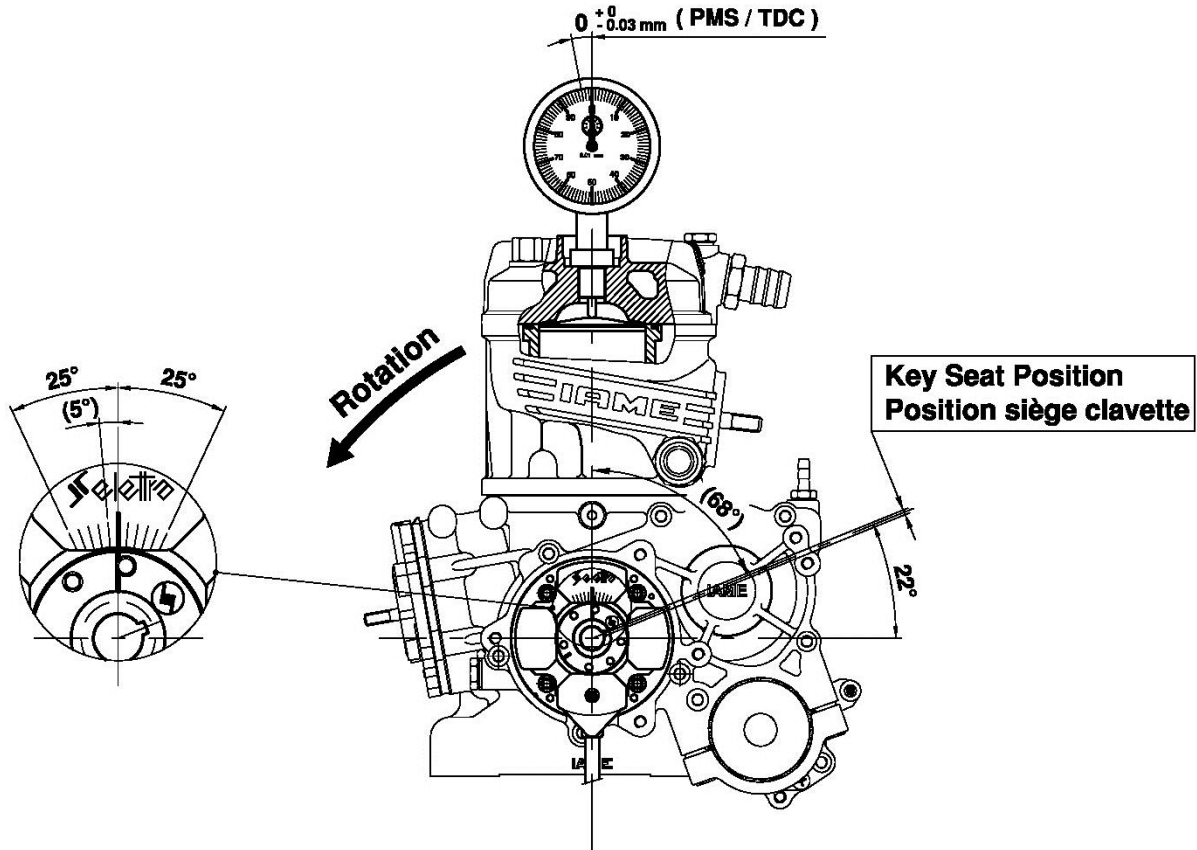


- 1- Electronic Control Unit / boîtier avec microprocesseur
- 2- Starting relay / relais démarrage
- 3- Starter key / cle de démarrage
- 4- Fuse holder / porte fusible
- 5- Battery / batterie
- 6- Ignition / allumage
- 7- Starter / démarrageur
- 8- H.T. coil / bobine

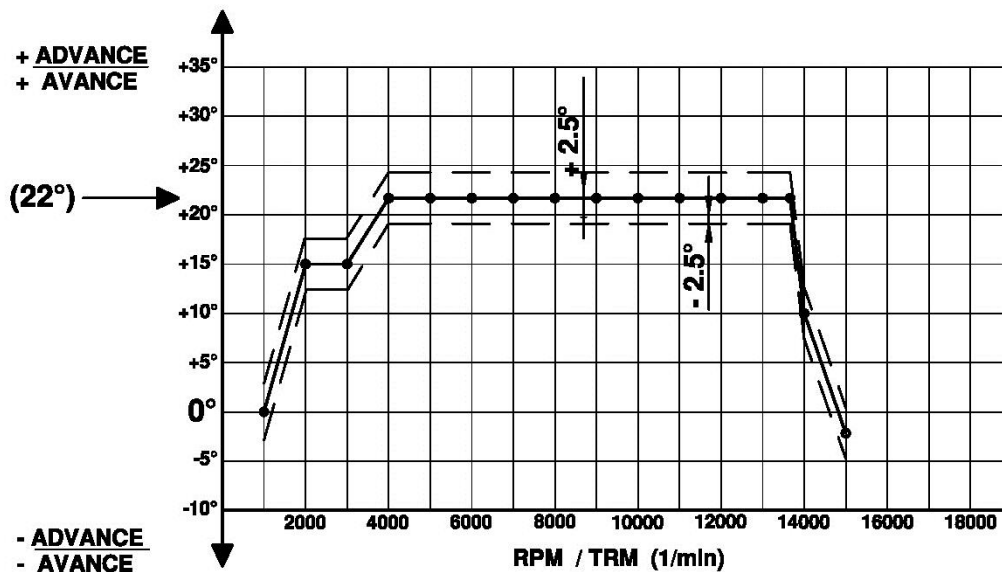


SCHEME FOR ADVANCE CONTROL  
SCHEMA DE CONTROLE POUR L'AVANCE

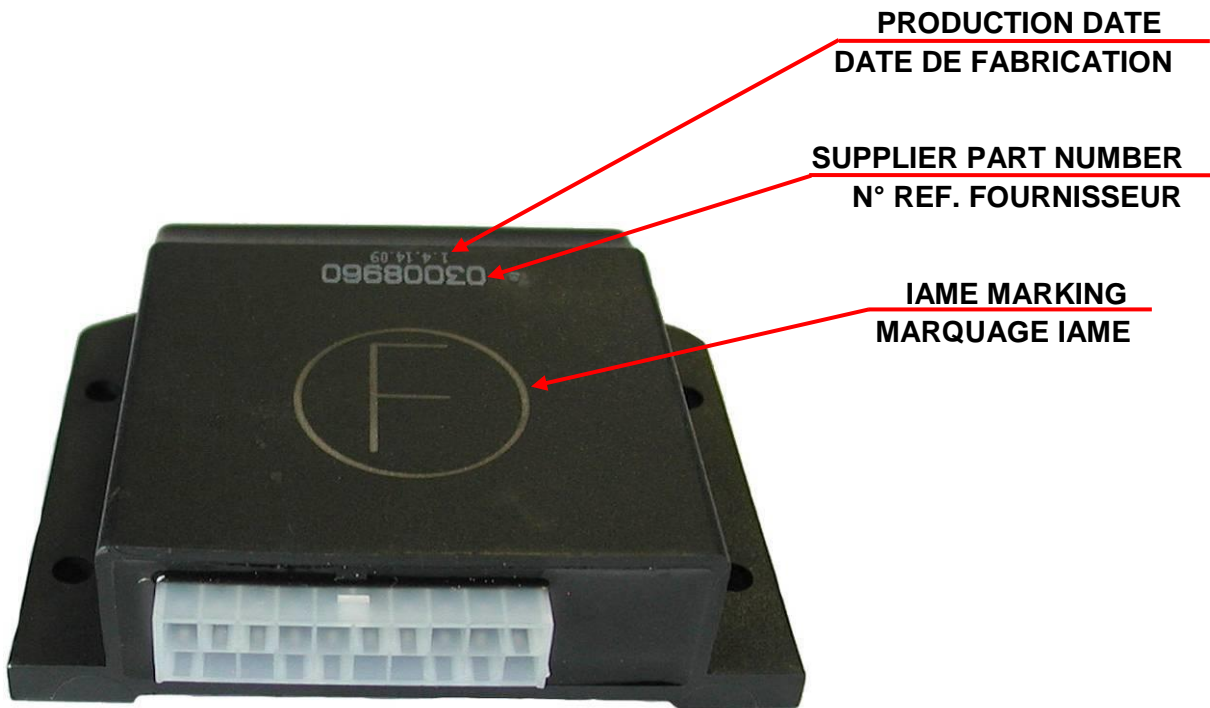
SCHEME FOR ADVANCE CONTROL / SCHEMA DE CONTROLE POUR L'AVANCE



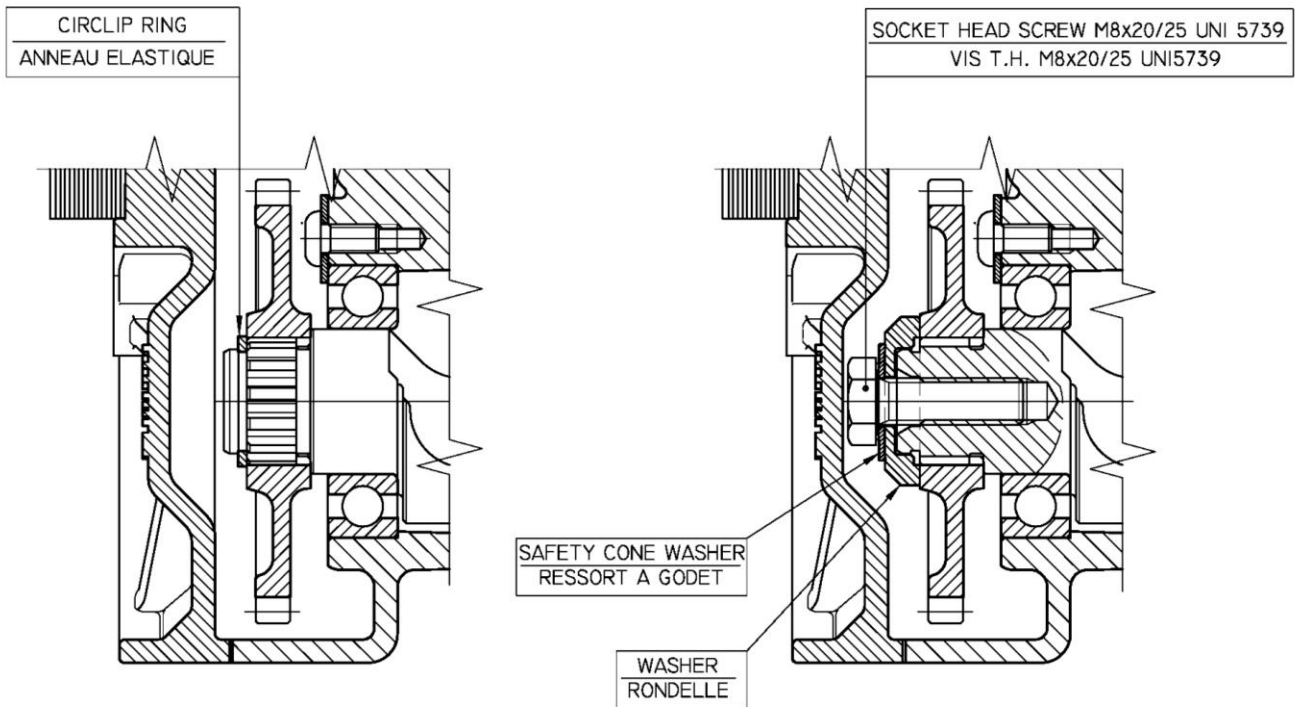
ADVANCE CURVE GRAPHS / GRAPHIQUES DE LA COURBE D'AVANCE



ELECTRONIC BOX MARKING  
MARQUAGE DU BOITIER ELECTRONIQUE



GEAR ALTERNATIVE FIXING  
FIXATION ALTERNATIVE DE L' ENGRANAGE



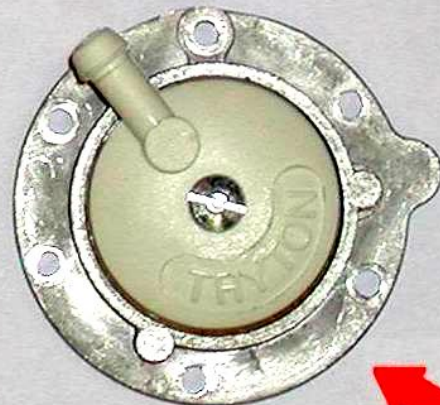
CARBURETTOR COVER ALTERNATIVE  
ALTERNATIF COUVERCLE CARBURATEUR

EN PRODUCTION JUSQU' EN  
SEPTEMBRE 2007

EN PRODUCTION A PARTIR  
D' OCTOBRE 2007

  
IN PRODUCTION UNTIL  
SEPTEMBER 2007

  
IN PRODUCTION STARTING  
FROM OCTOBER 2007



EN PRODUCTION JUSQU' EN  
DECEMBRE 2008

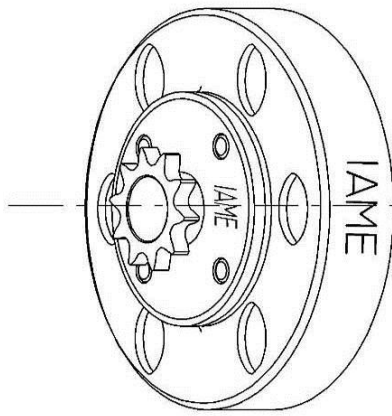
EN PRODUCTION A PARTIR  
DE JANVIER 2009

IN PRODUCTION UNTIL  
DECEMBER 2008

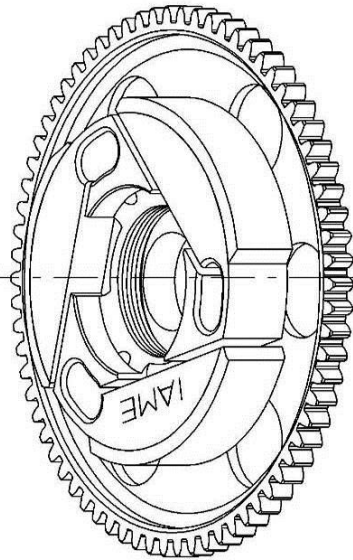
IN PRODUCTION STARTING  
FROM JANUARY 2009



DESCRIPTION OF THE CLUTCH - DESCRIPTION DE L' EMBRAYAGE

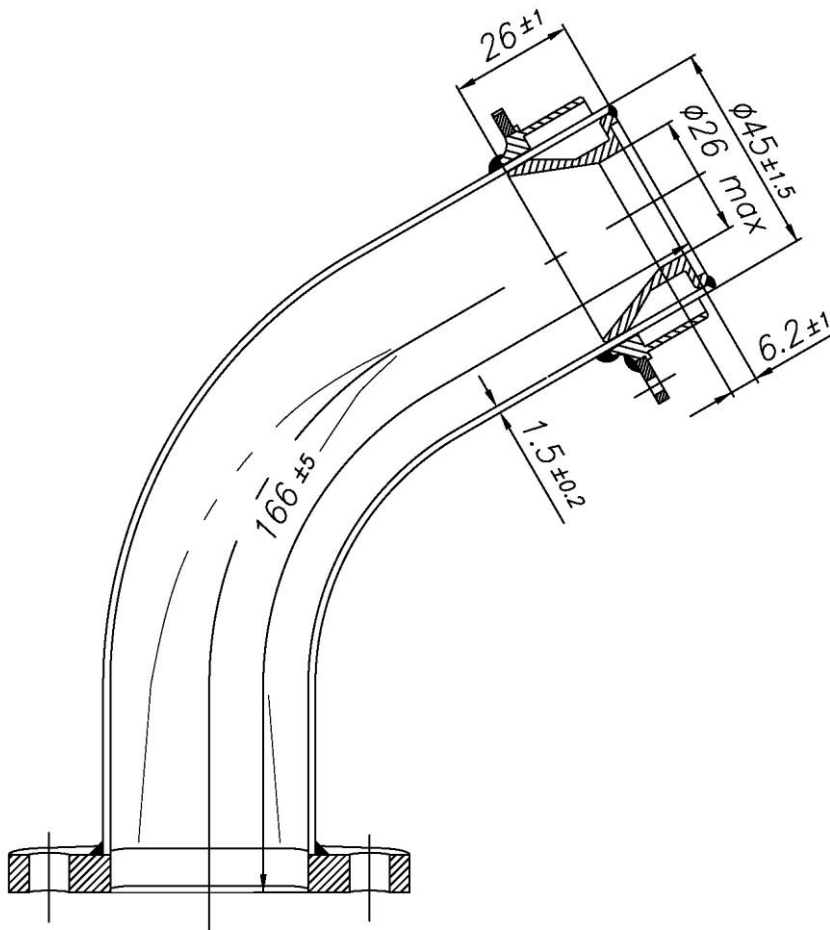


Min. weight 300 g  
Poids min. 300 g



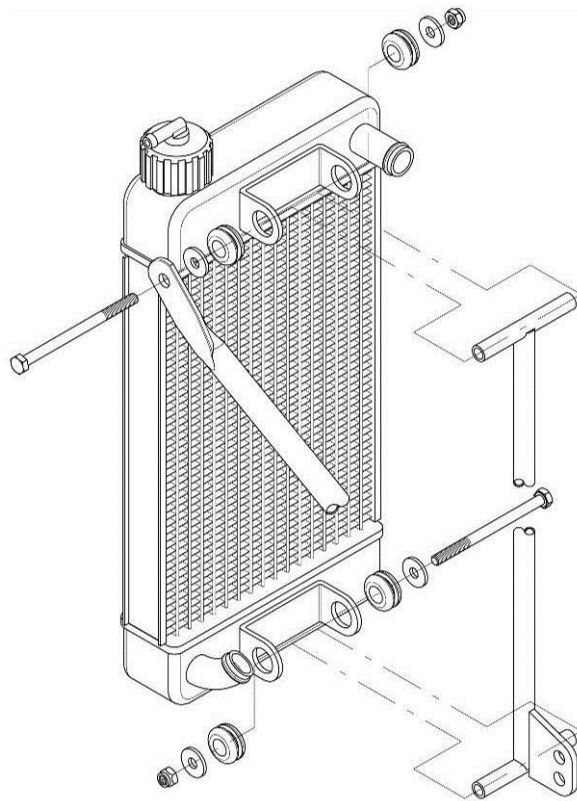
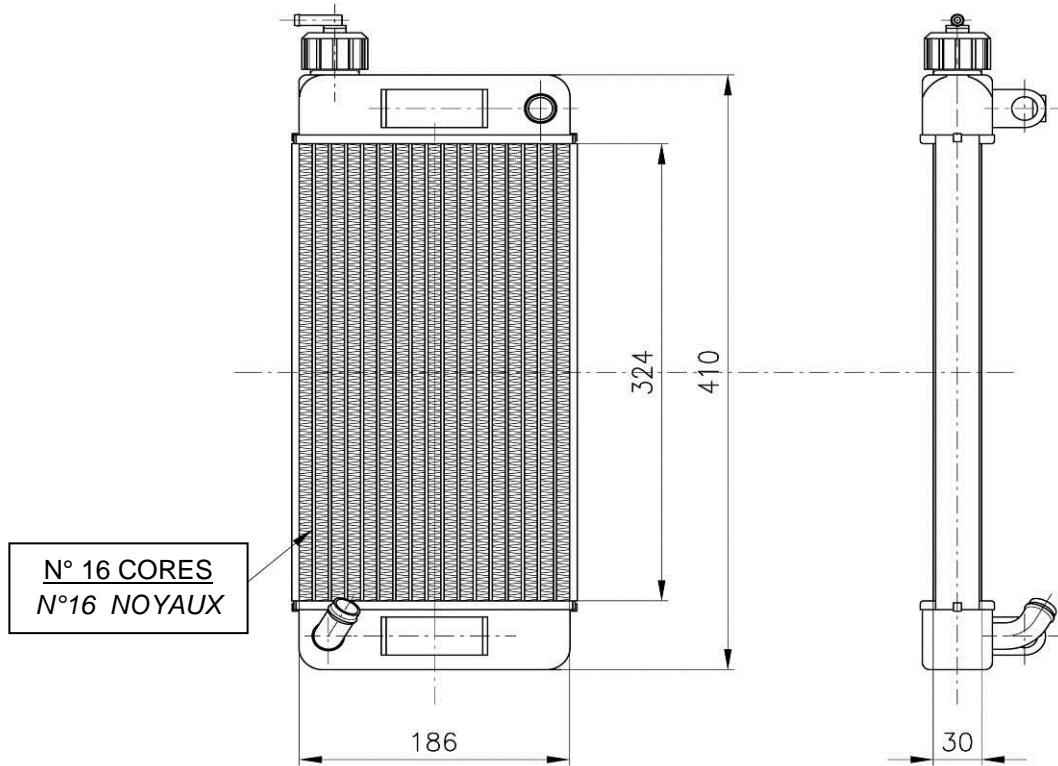
Min. weight 650 g  
Poids min. 650 g

EXHAUST RESTRICTOR  
REDUCTION D' ECHAPPEMENT





RADIATOR DESCRIPTION AND SKETCH OF PARTS  
DESCRIPTION DU RADIATEUR ET SCHEMA ILLUSTRANT LES ELEMENTS



RADIATOR AND ITS SUPPORTS  
*RADIATEUR ET SES SUI TIEN*

PAINTED AND NOT PAINTED / *PEINT ET PAS PEINT*



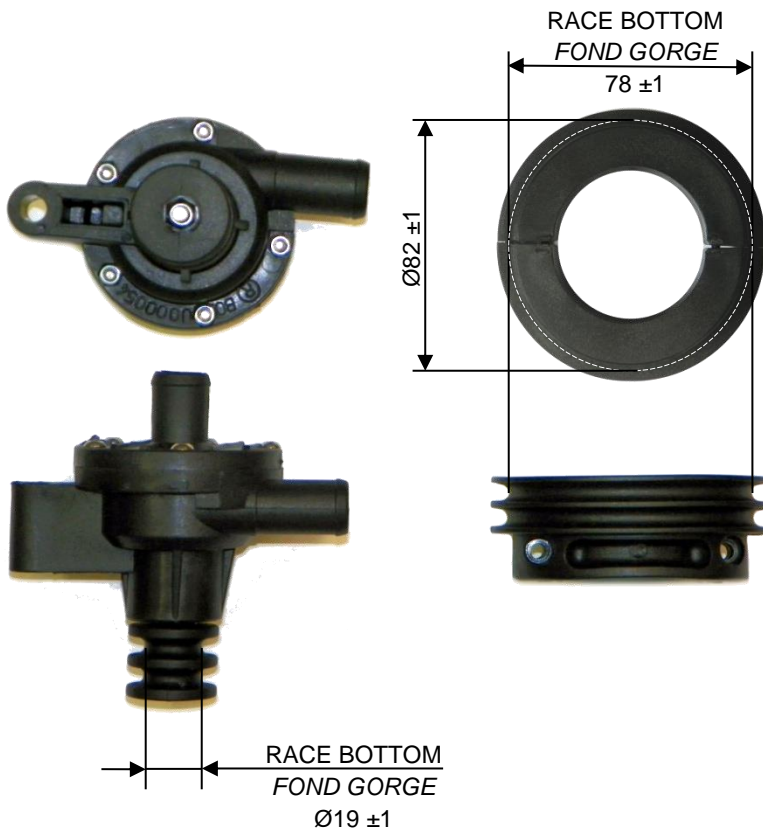
FRONT / *AVANT*



REAR / *ARRIERE*



WATER PUMP GROUP  
*GROUPE POMPE A' EAU*



THERMOSTAT



ALTERNATIVE



PISTON IDENTIFICATION MARKING  
 MARQUAGE D'IDENTIFICATION PISTON

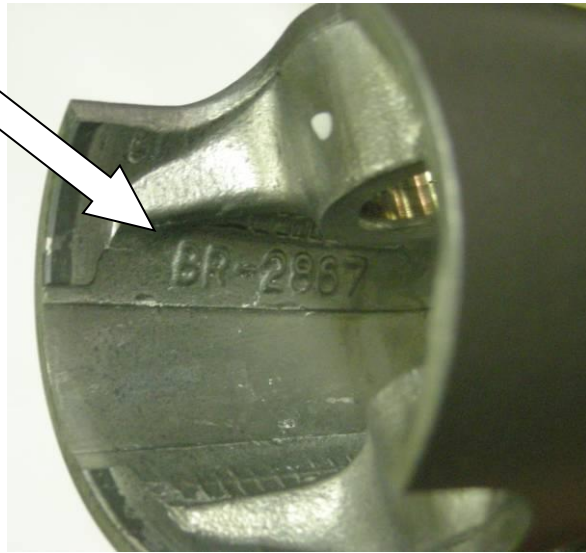
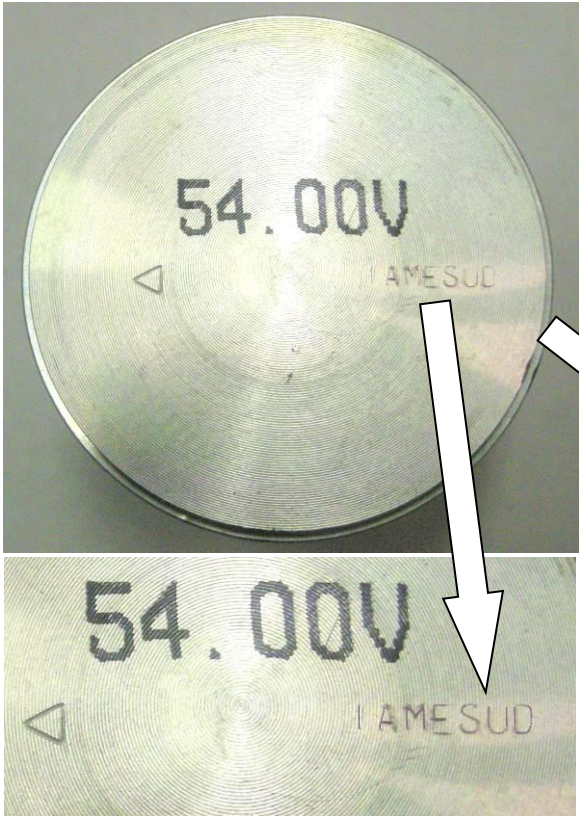
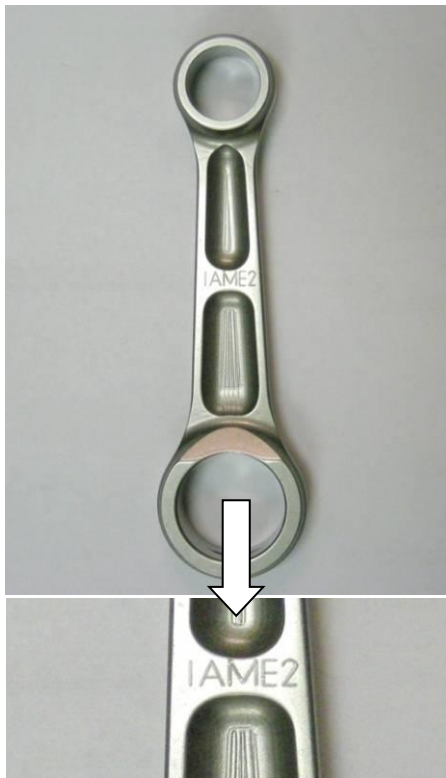
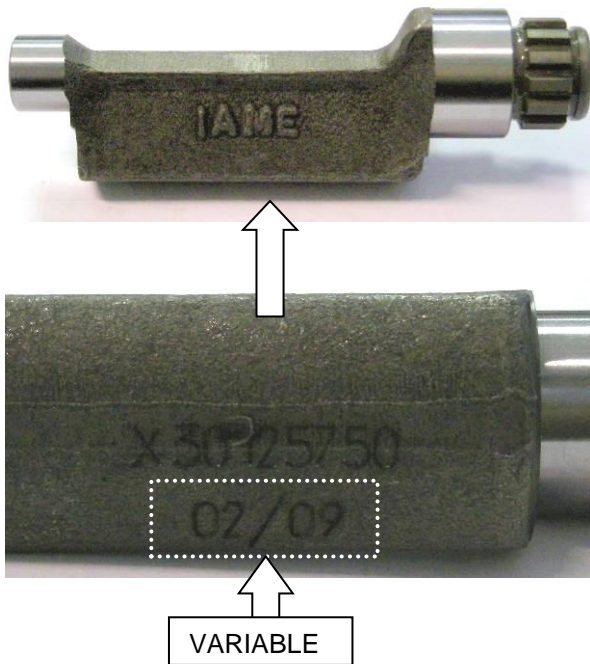


PHOTO IDENTIFICATION CONROD  
 MARQUAGE D'IDENTIFICATION BIELLE



IDENTIFICATION BALANCING SHAFT  
 MARKING  
 MARQUAGE D'IDENTIFICATION ARBRE  
 D'EQUILIBRAGE



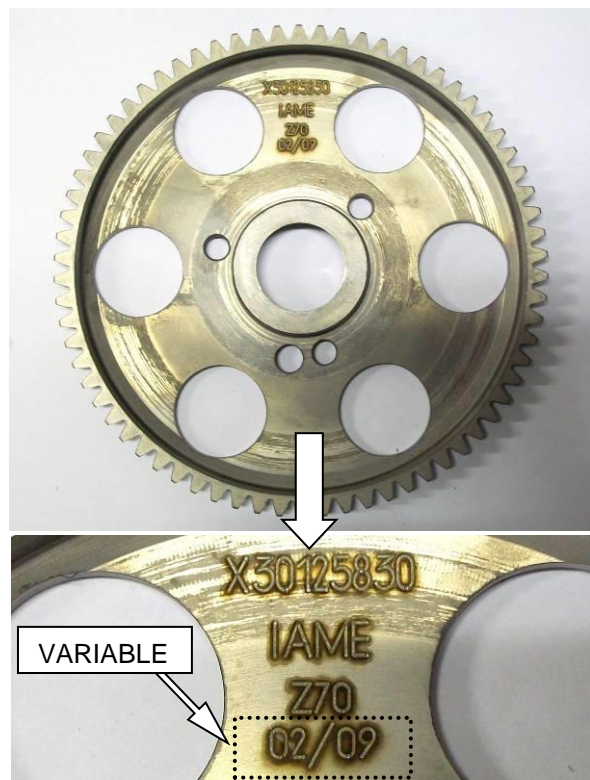
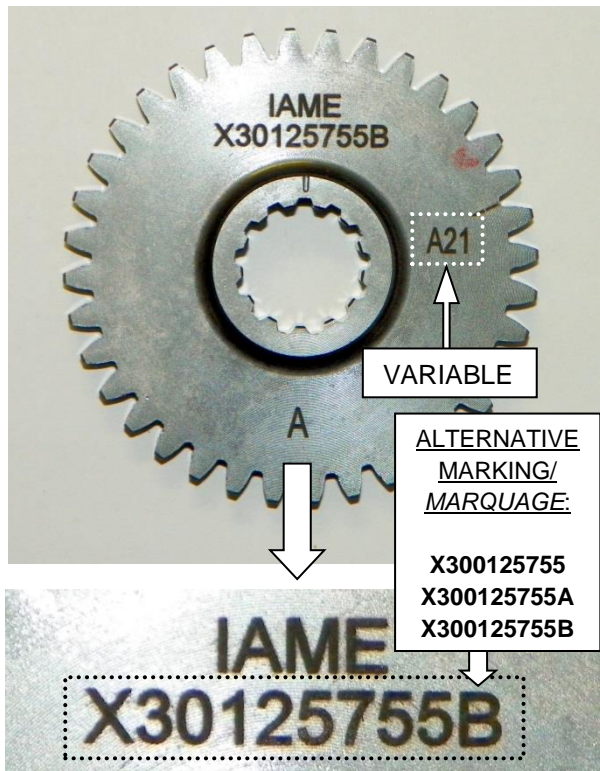


CRANKSHAFT IDENTIFICATION MARKING  
 MARQUAGE D'IDENTIFICATION DU VILEBREQUIN



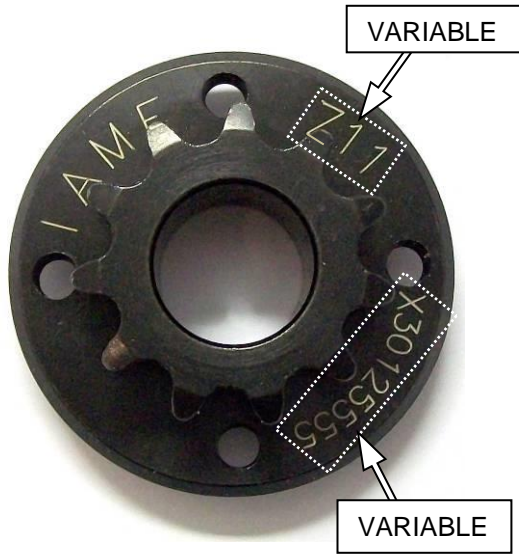
GEAR COMMAND BALANCING SHAFT  
 IDENTIFICATION MARKING  
 MARQUAGE D'IDENTIFICATION  
 ENGRENAGE ARBRE D'EQUILIBRAGE

STARTER RING IDENTIFICATION MARKING  
 MARQUAGE D'IDENTIFICATION DE LA  
 COURONNE DE DEMARRAGE





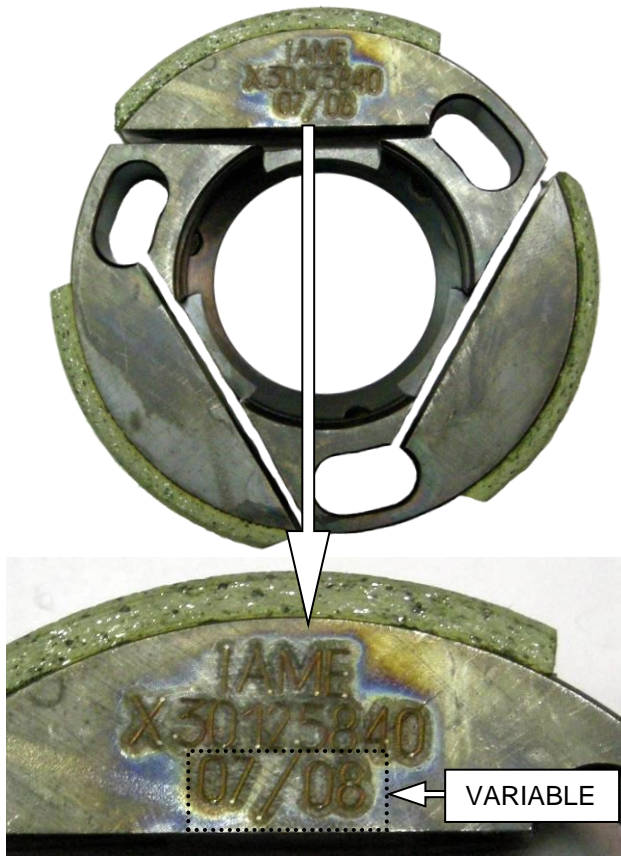
SPROCKET IDENTIFICATION MARKING  
 MARQUAGE D'IDENTIFICATION DU  
 PIGNON



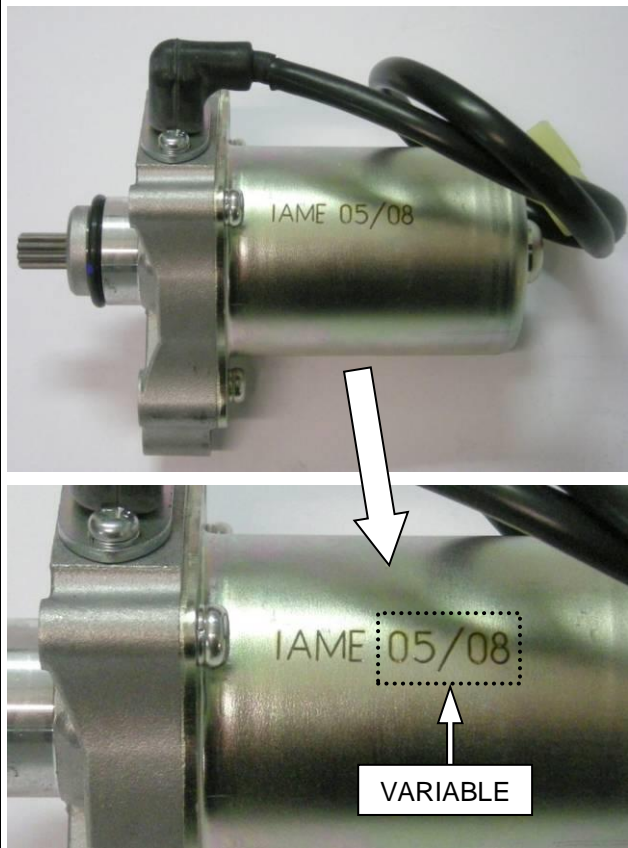
CLUTCH DRUM IDENTIFICATION MARKING  
 MARQUAGE D'IDENTIFICATION DE LA  
 CALOTTE



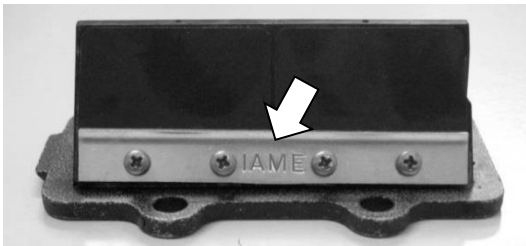
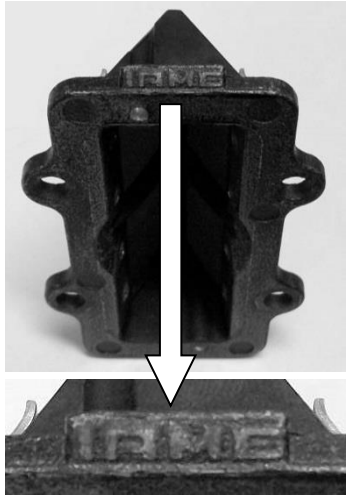
CLUTCH BODY IDENTIFICATION  
 MARKING  
 MARQUAGE D'IDENTIFICATION CORPS  
 DE EMBRAYAGE



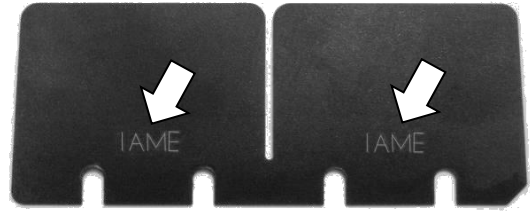
STARTER IDENTIFICATION MARKING  
 MARQUAGE D'IDENTIFICATION DU  
 MOTEUR DEMARREUR



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

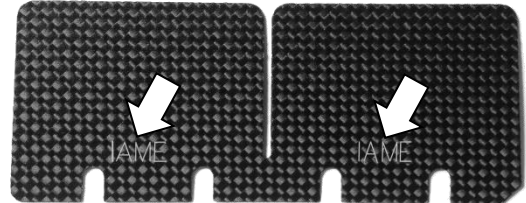


VETRONITE



CARBON FIBER

FRONT SIDE



REAR SIDE

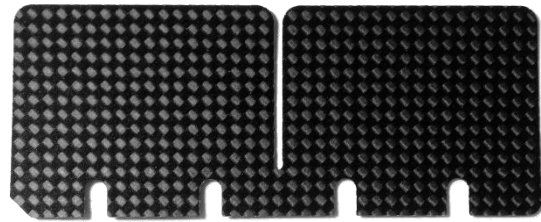
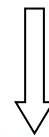


PHOTO IDENTIFICATION  
 CARBURETOR INLET CONVEYOR  
 MARQUAGE D'IDENTIFICATION DU  
 COLLECTEUR D'ASPIRATION



EXHAUST SILENCER IDENTIFICATION  
 MARKING  
 MARQUAGE D'IDENTIFICATION  
 ECHAPPEMENT

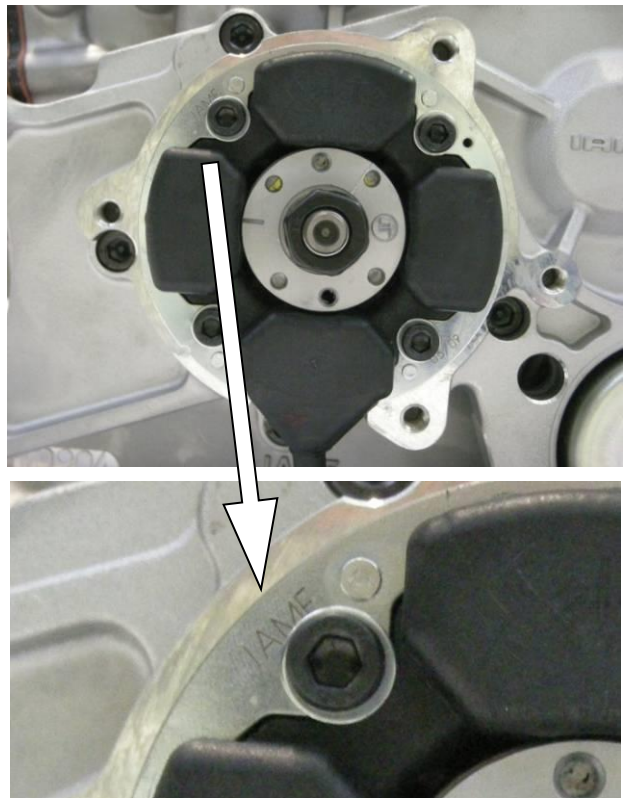




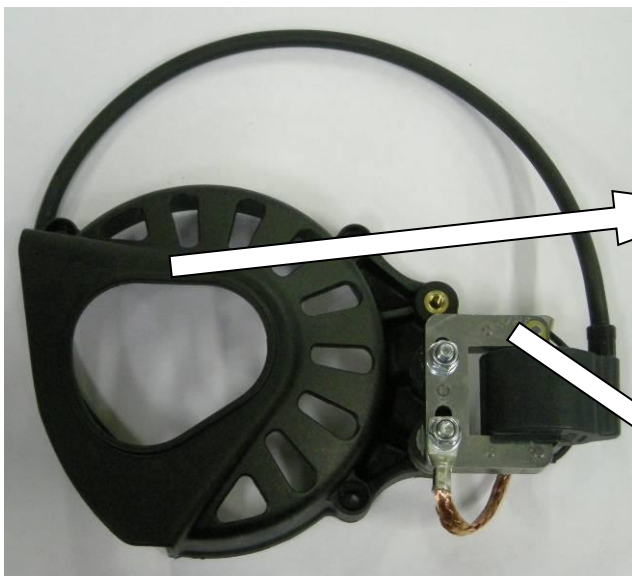
HEADER EXHAUST IDENTIFICATION MARKING  
 MARQUAGE DE LA COUDE  
 D'ÉCHAPPEMENT



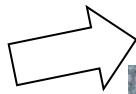
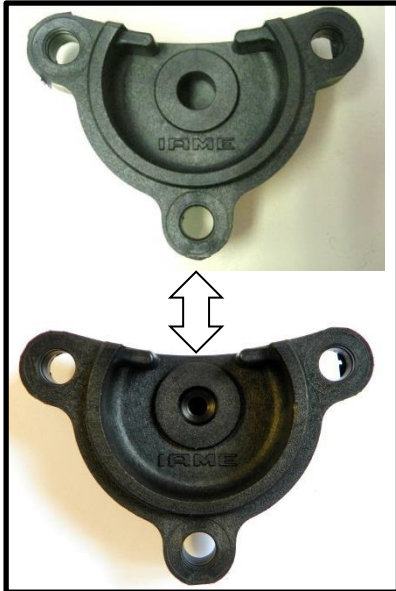
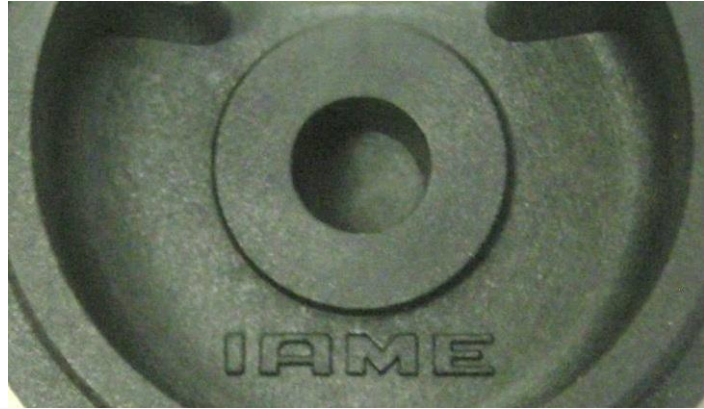
STATOR IDENTIFICATION MARKING  
 MARQUAGE D'IDENTIFICATION DU  
 STATOR



CLUTCH COVER AND H.T. COIL IDENTIFICATION MARKING  
 MARQUAGE DU COUVERCLE D'EMBRAYAGE ET DE LA BOBINE



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

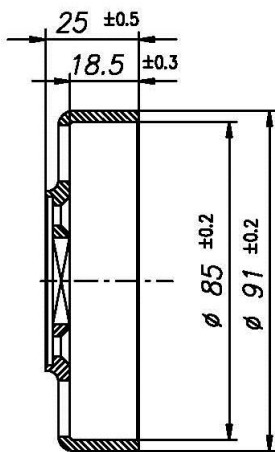
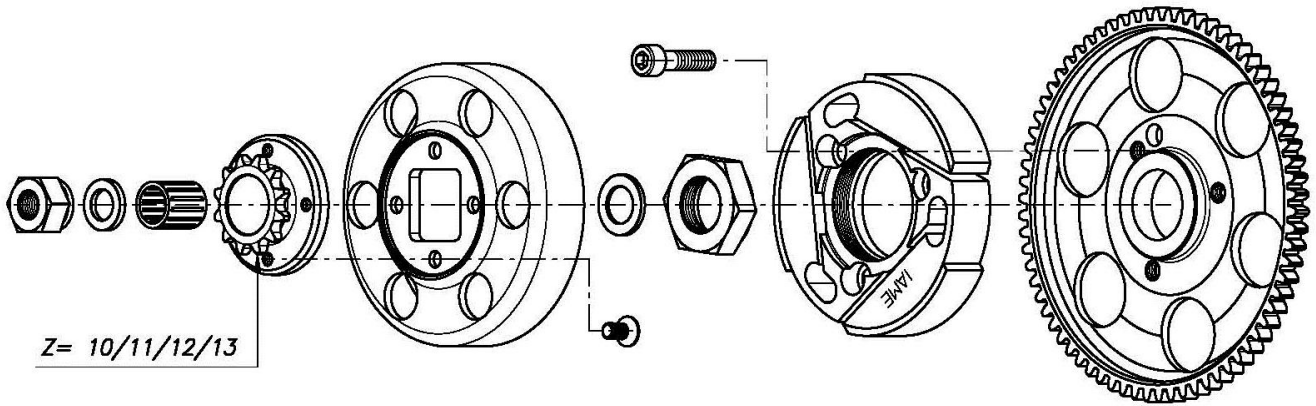


ALTERNATIVE

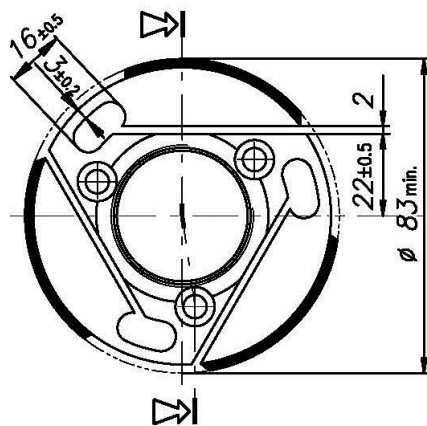




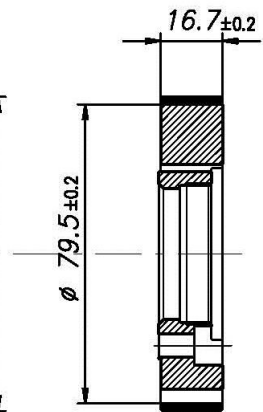
DESCRIPTION OF THE CLUTCH 2013 - DESCRIPTION DE L' EMBRAYAGE 2013



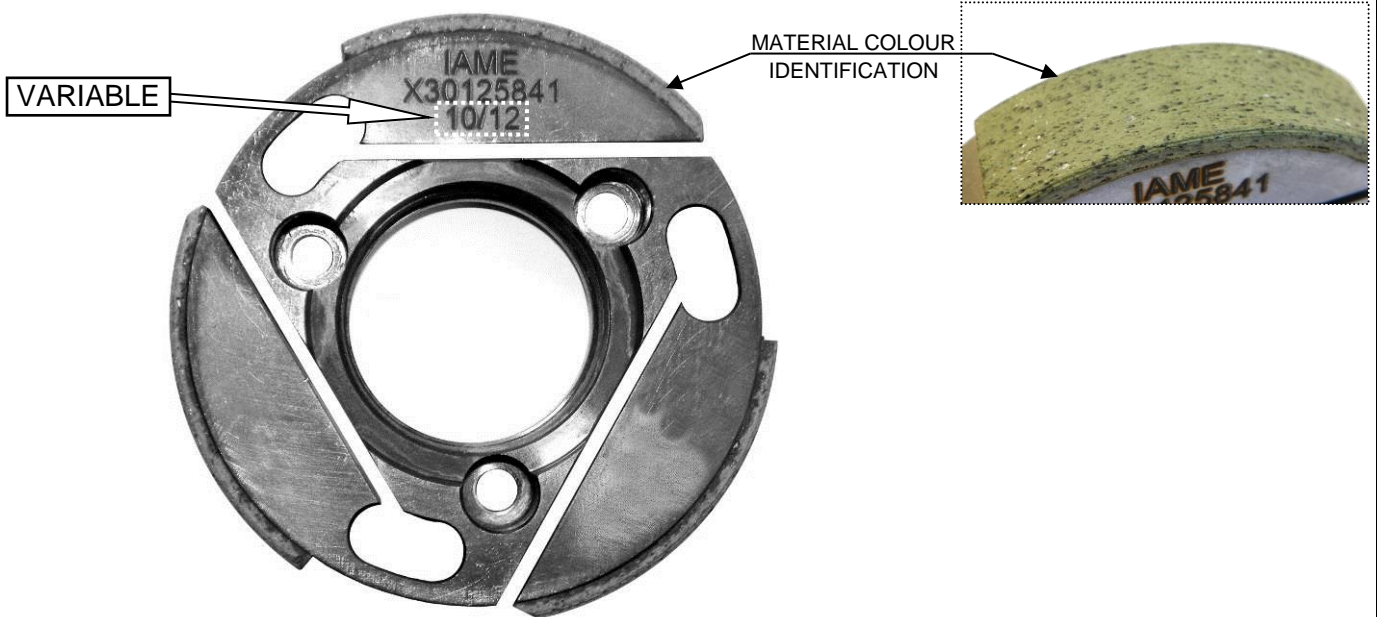
Min. weight 225 g  
Poids min. 225 g



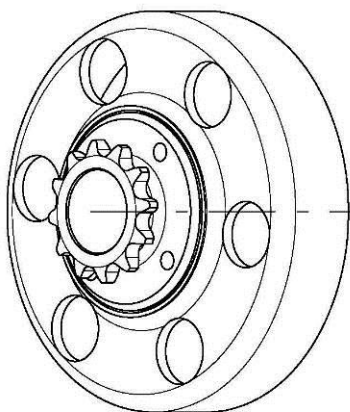
Min. weight 375 g  
Poids min. 375 g



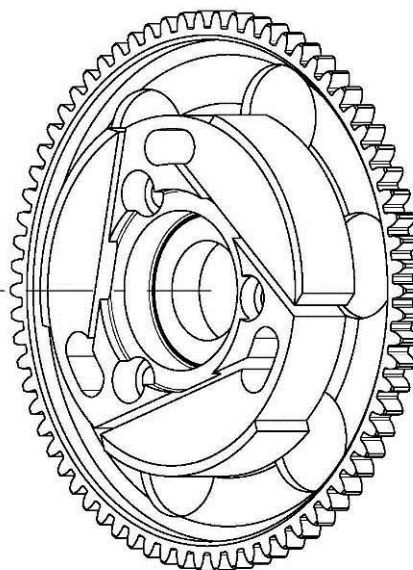
CLUTCH BODY 2013 IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION CORPS DE EMBRAYAGE 2013



DESCRIPTION OF THE CLUTCH 2013 - DESCRIPTION DE L' EMBRAYAGE 2013



Min. weight 300 g  
*Poids min. 300 g*

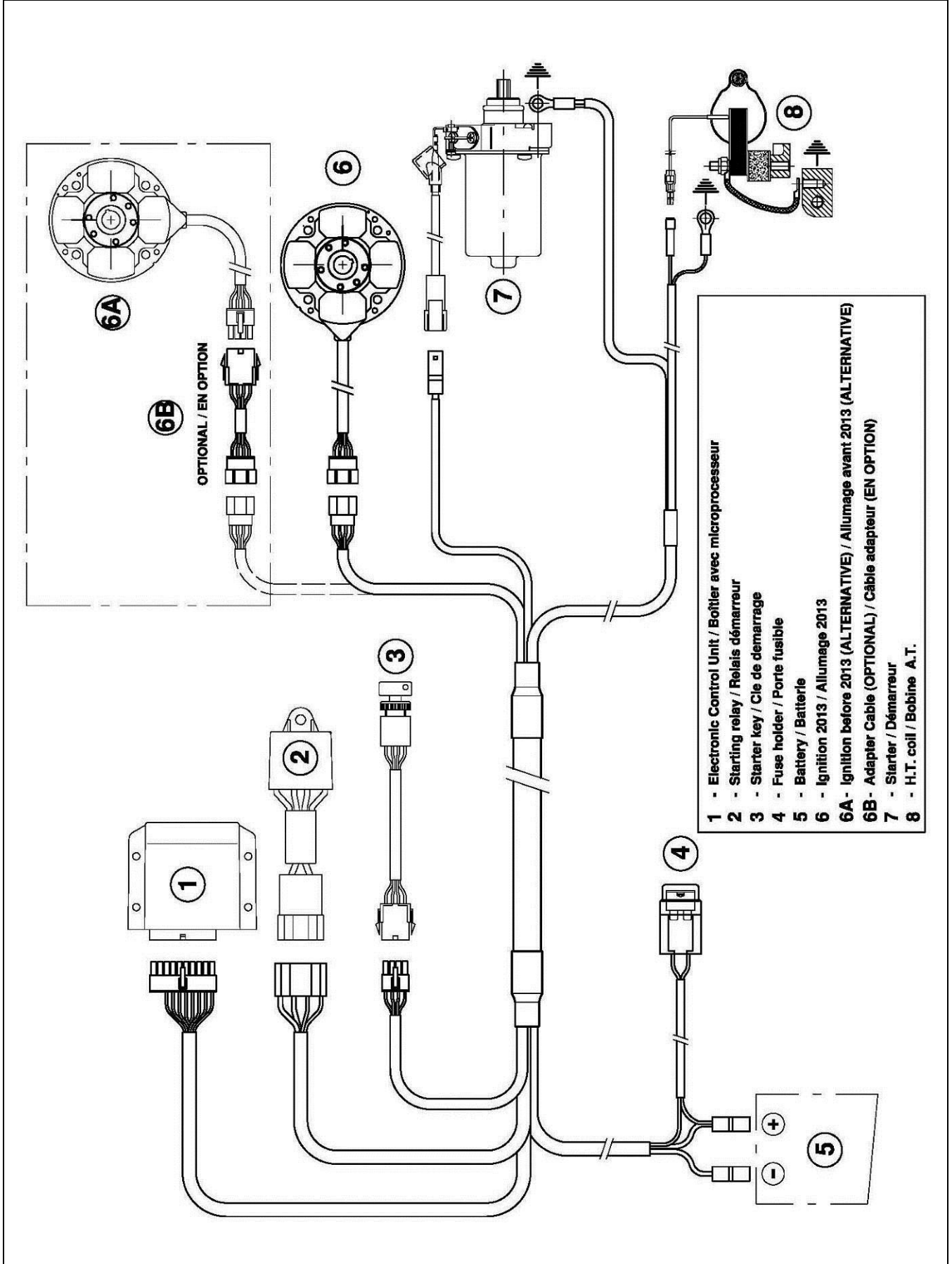


Min. weight 680 g  
*Poids min. 680 g*

STARTER RING 2013 IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DE LA COURONNE DE DEMARRAGE 2013

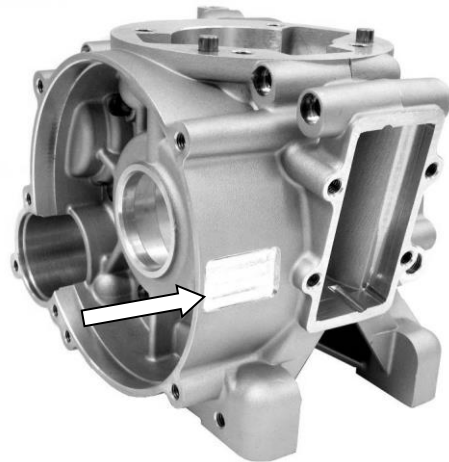


WIRING DIAGRAM ( SELETTRA DIGITAL "K" IGNITION 2013 )  
 SCHEMA CIRCUIT ELECTRIQUE ( ALLUMAGE SELETTRA DIGITAL "K" 2013 )

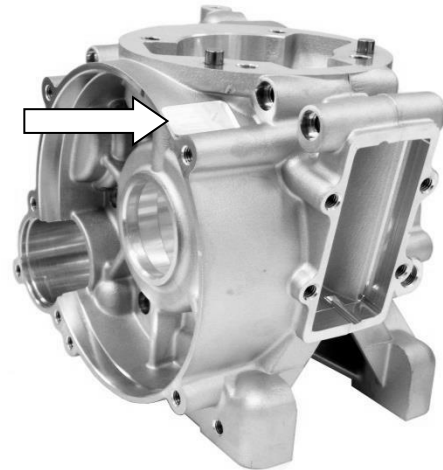


**FROM 2014 ON - A PARTIR DE 2014**

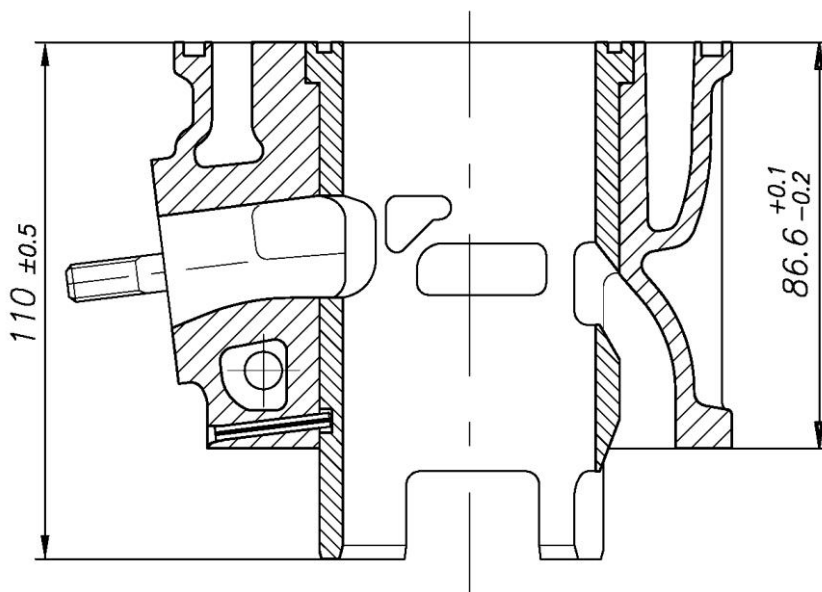
STICKER APPLICATION AREA - *ESPACE POUR L'APPLICATION DE ADHÉSIFS*



ALTERNATIVE AREA



CYLINDER CROSS SECTION VIEW  
*VUE EN SECTION DU CYLINDRE*





CYLINDER IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DU CYLINDRE

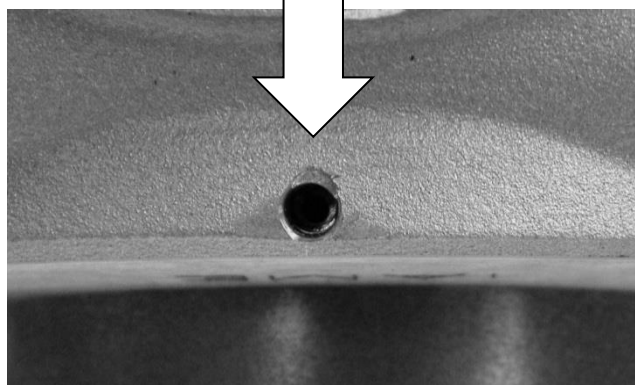
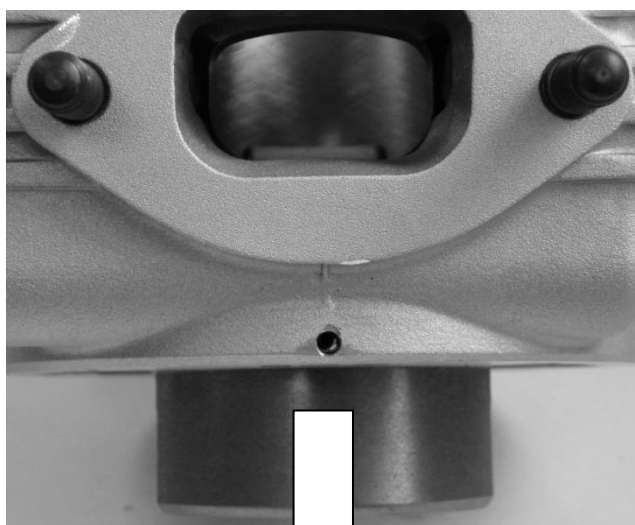
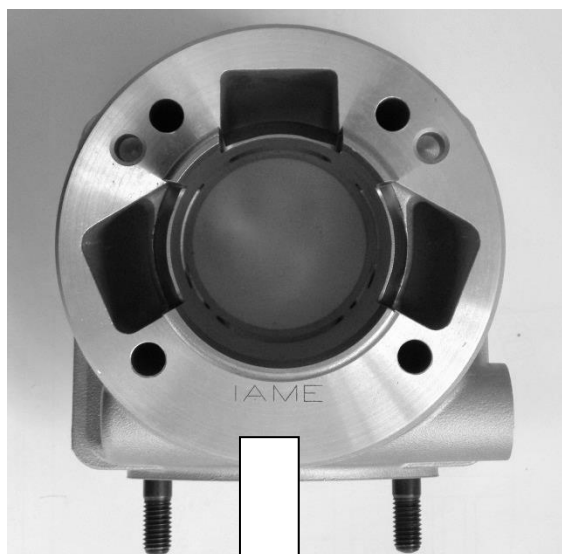
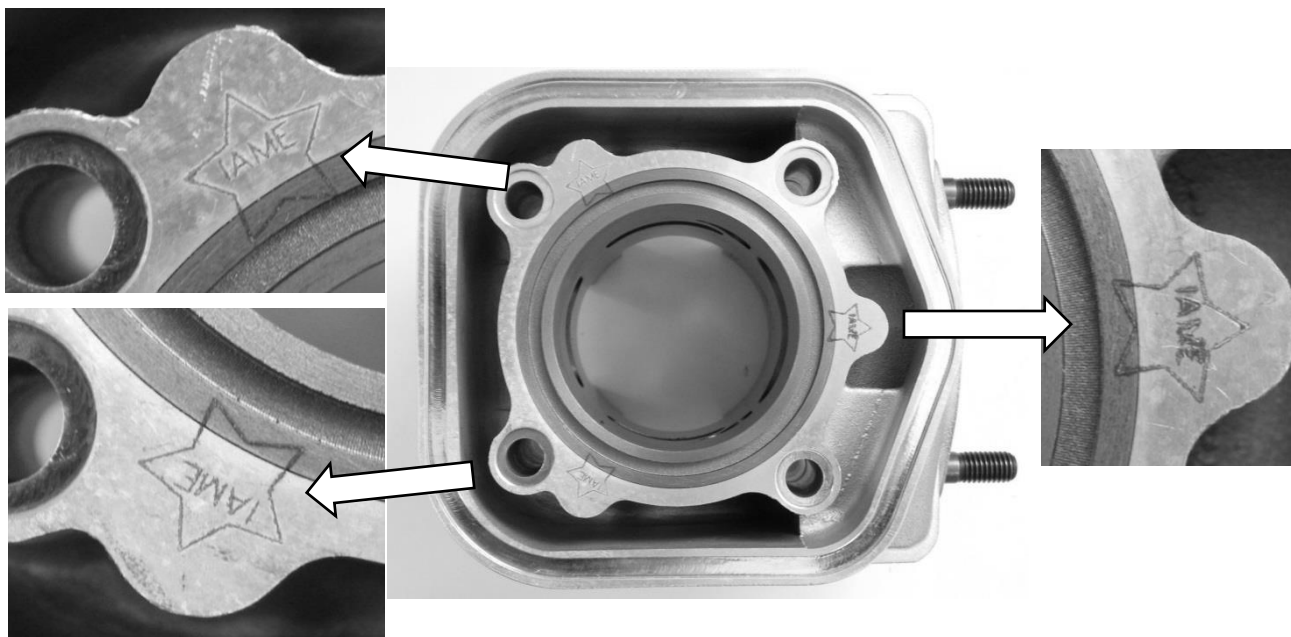
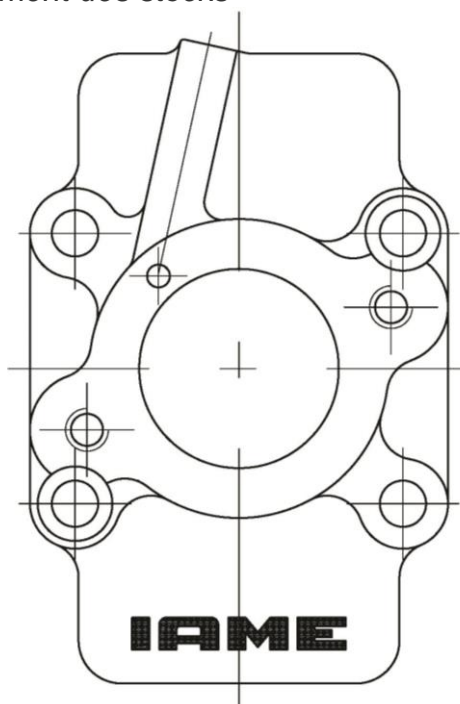


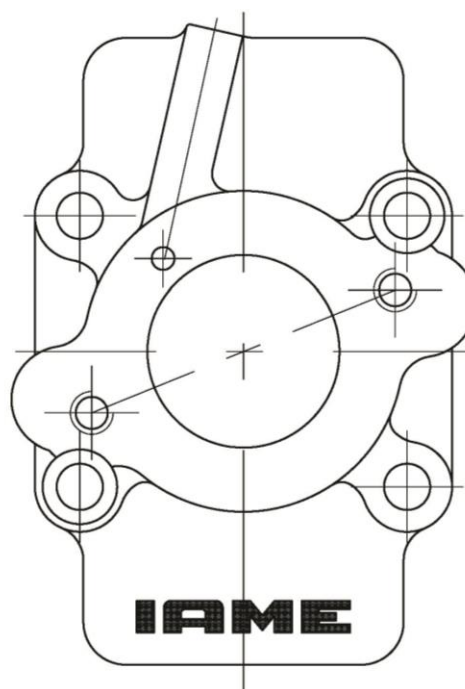
PHOTO IDENTIFICATION CARBURETTOR INLET CONVEYOR  
MARQUAGE D'IDENTIFICATION DU COLLECTEUR D'ASPIRATION

Old version - while stocks last  
*Vieille version - jusqu'à épuisement des stocks*

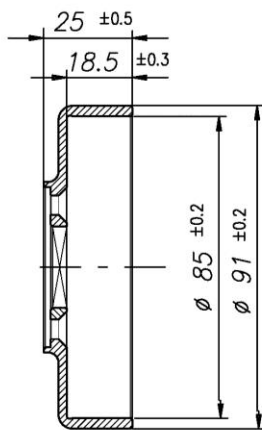
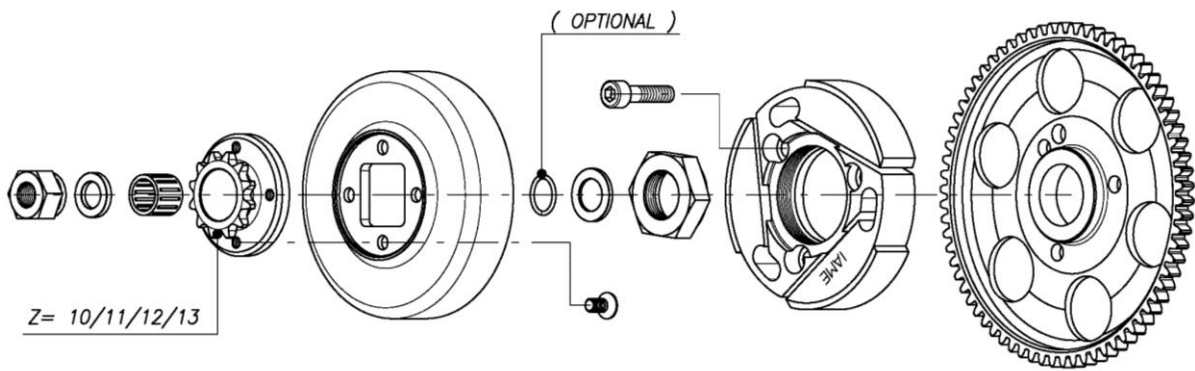


**IN ALTERNATIVE**

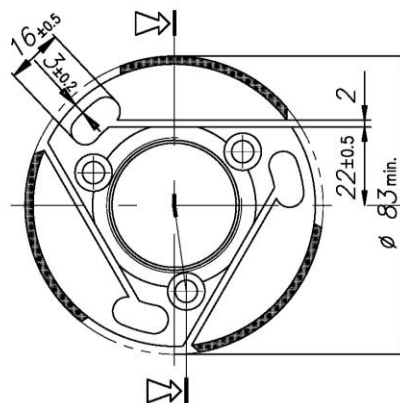
New version  
*Nouvelle version*



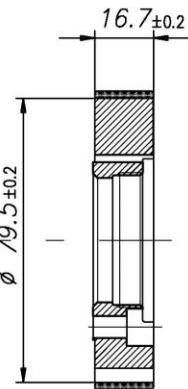
DESCRIPTION OF THE CLUTCH 2015 - DESCRIPTION DE L' EMBRAYAGE 2015



Min. weight 225 g  
Poids min. 225g

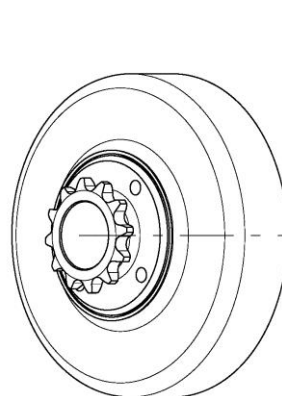


Min. weight 375 g  
Poids min. 375g

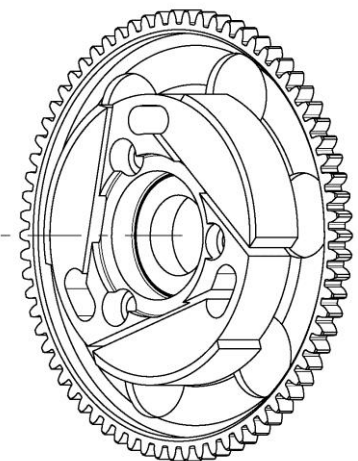


CLUTCH DRUM 2015 IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DE LA CALOTTE 2015

WEIGHT MIN. OF THE CLUTCH 2015  
POIDS MIN. DE L' EMBRAYAGE 2015



Min. weight 300 g  
Poids min. 300 g



Min. weight 680 g  
Poids min. 680 g

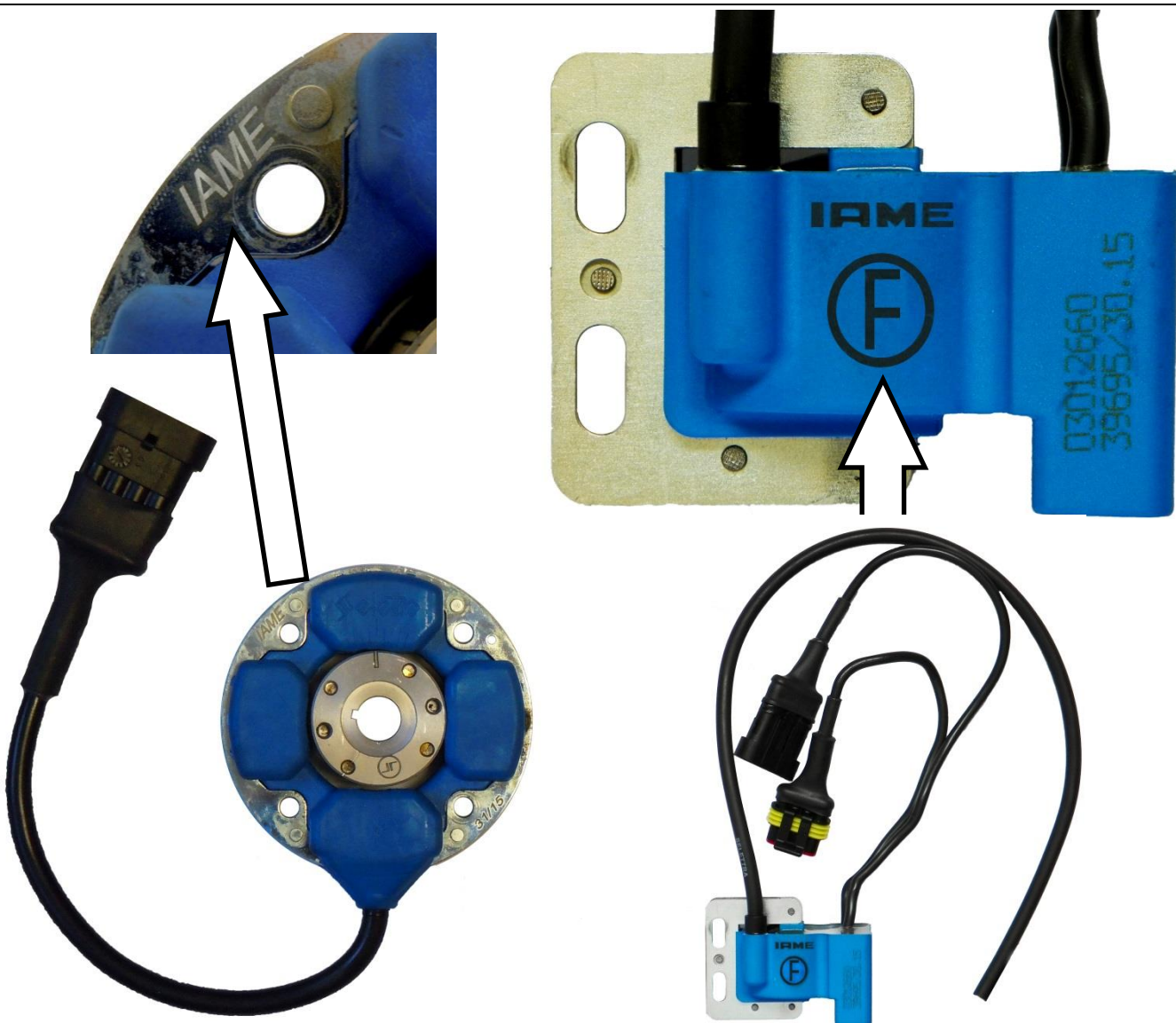
ALTERNATIVE PUSH BUTTONS – START & STOP  
BOUTONS “START & STOP” DU DEMARREUR ALTERNATIVE



PHOTO COMPLETE ALTERNATIVE WIRING LOOM  
PHOTO DU CABLAGE ELECTRONIQUE COMPLET

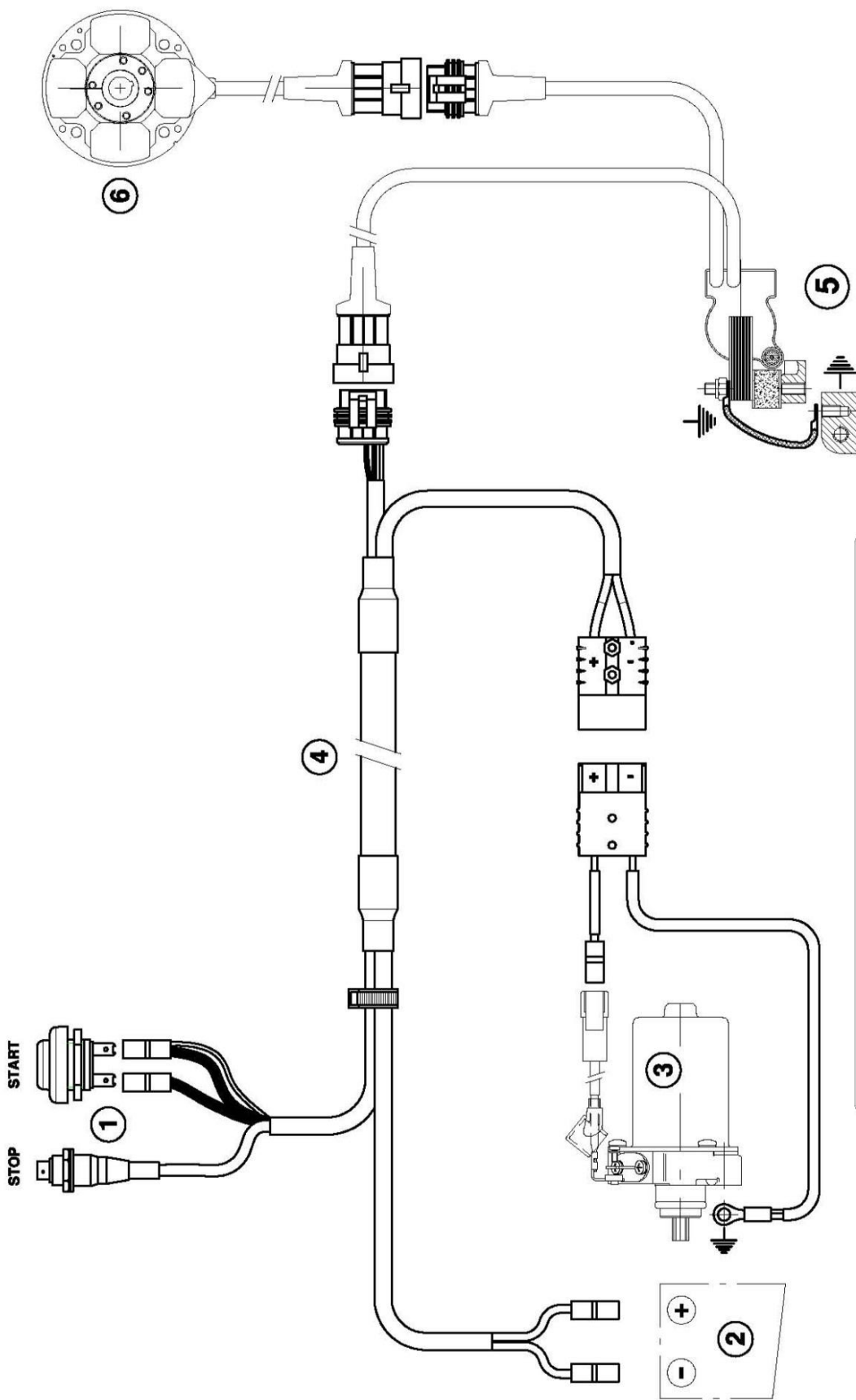


PHOTO OF SELETTRA ALTERNATIVE DIGITAL "S" IGNITION, WITH IAME MARKING  
PHOTO DU SELETTRA DIGITAL "S" ALLUMAGE, AVEC MARQUAGE IAME





WIRING DIAGRAM ( SELETTRA DIGITAL "S" IGNITION )  
 SCHEMA CIRCUIT ELECTRIQUE ( ALLUMAGE SELETTRA DIGITAL "S" )

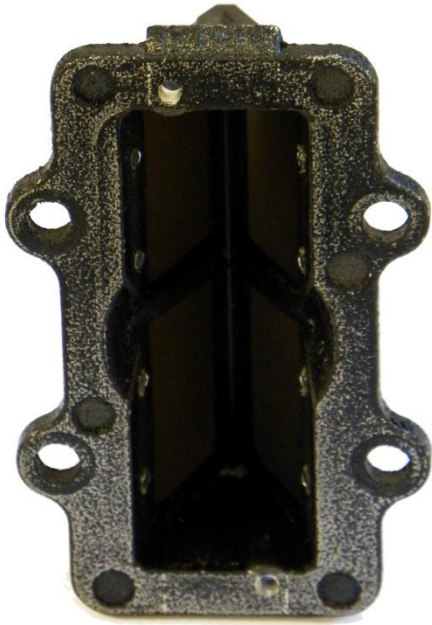
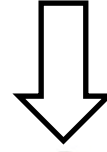
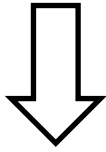


- 1 - Push buttons Start & Stop / Bouton poussoir du démarreur
- 2 - Battery / Batterie
- 3 - Starter / Démarreur
- 4 - Wiring cable / Cablage électrique
- 5 - H.T. coil and Electronic Control Unit / Bobine A.T. et boîtier avec microprocesseur
- 6 - Ignition / Allumage

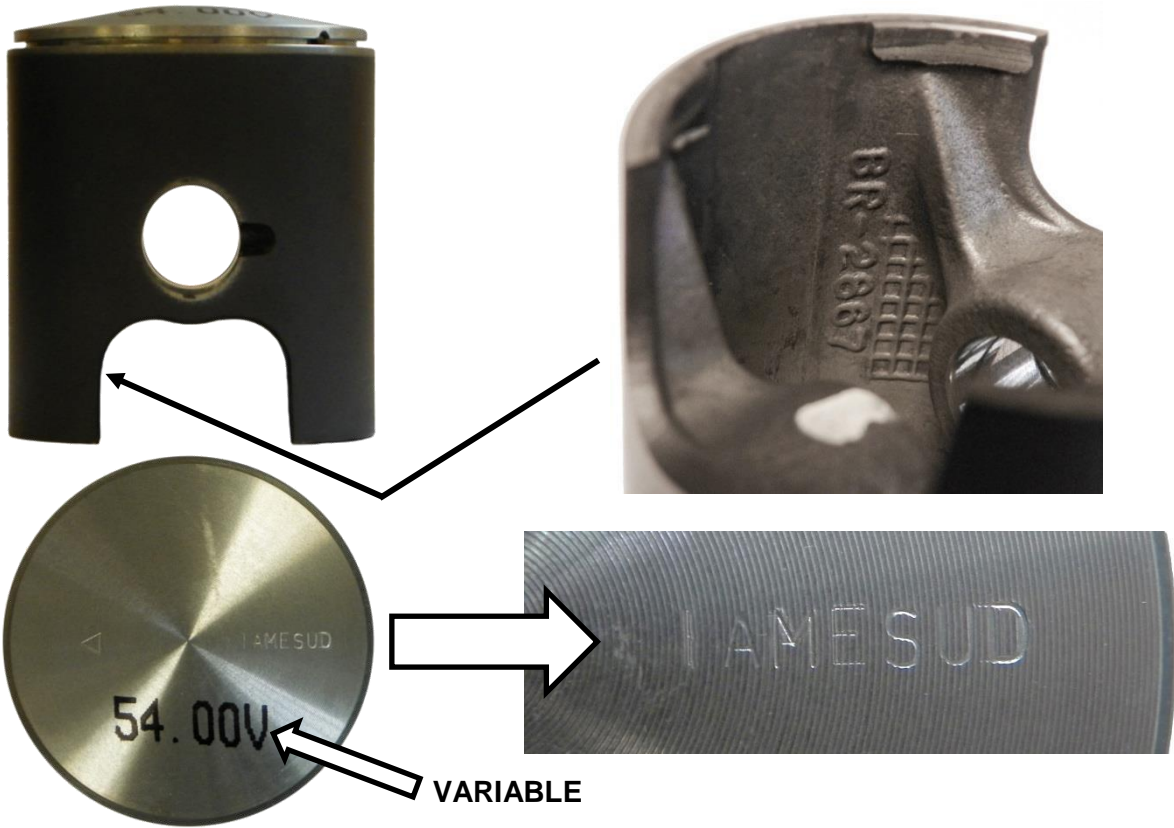
PHOTO IDENTIFICATION REED GROUP  
PHOTO IDENTIFICATION PYRAMIDE DE CLAPETS

CURRENT VERSION  
ACTUAL VERSION

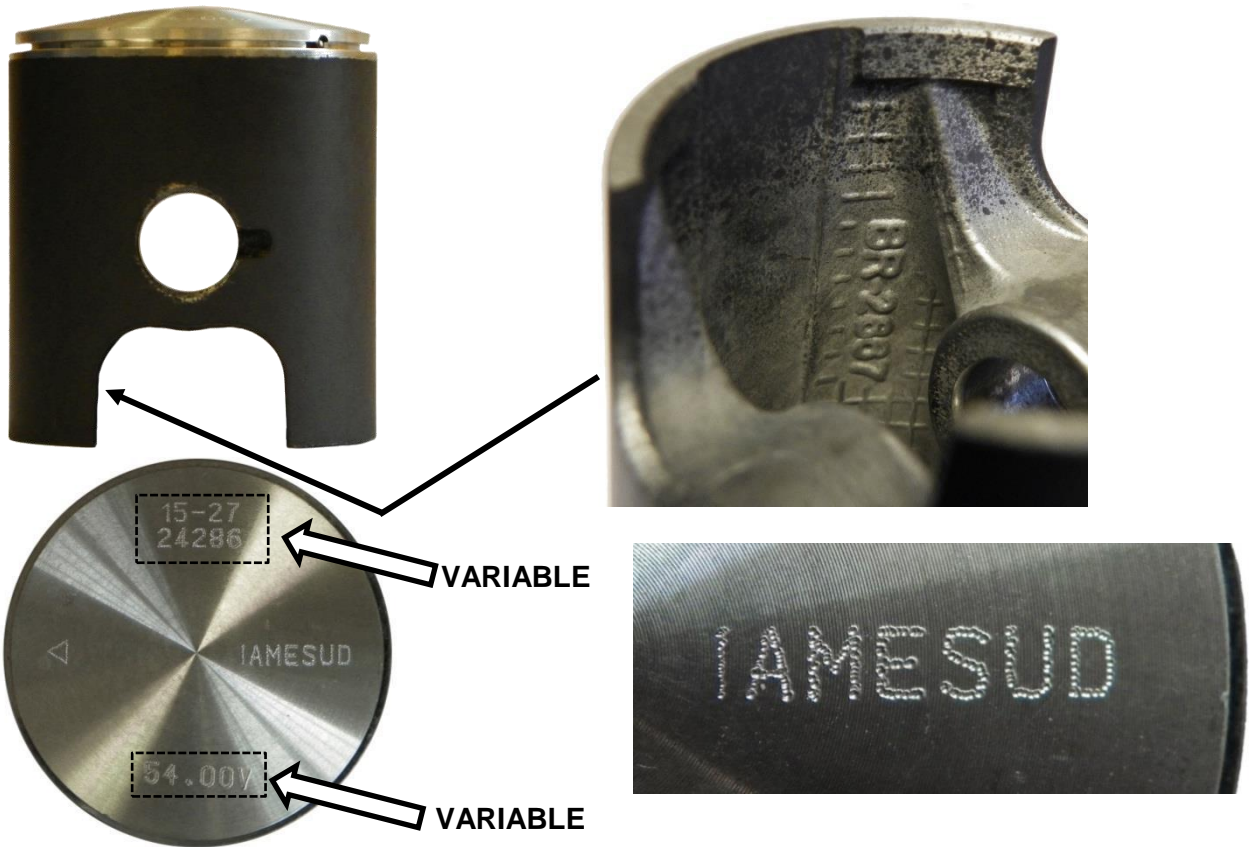
ALTERNATIVE VERSION  
VERSION ALTERNATIVE



ACTUAL PISTON  
PISTON COURANT



ALTERNATIVE PISTON  
PISTON ALTERNATIVE





POSITION OPTIONAL TO EXHAUST TEMPERATURE SENSOR  
*POSITION POSITION DU CAPTEUR DE TEMPERATURE D'ECHAPPEMENT*

