



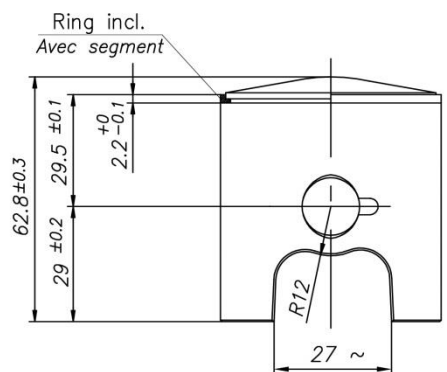
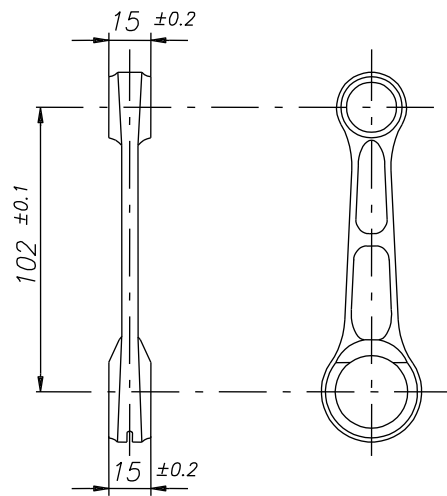
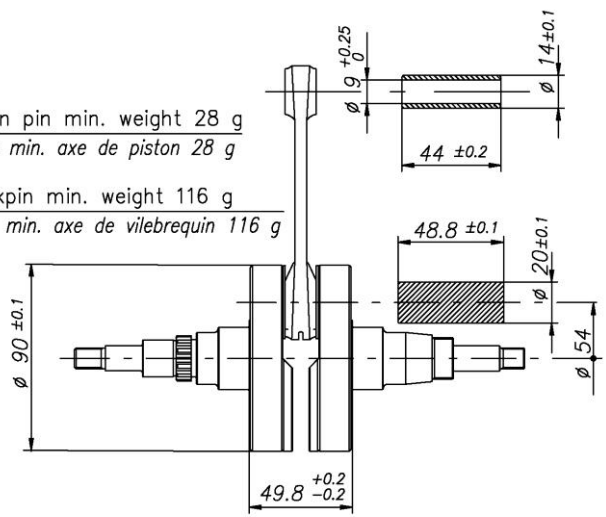
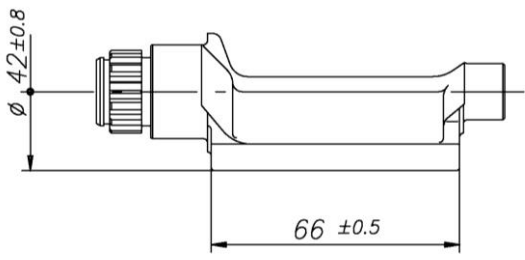
# 125cc RL-C TaG



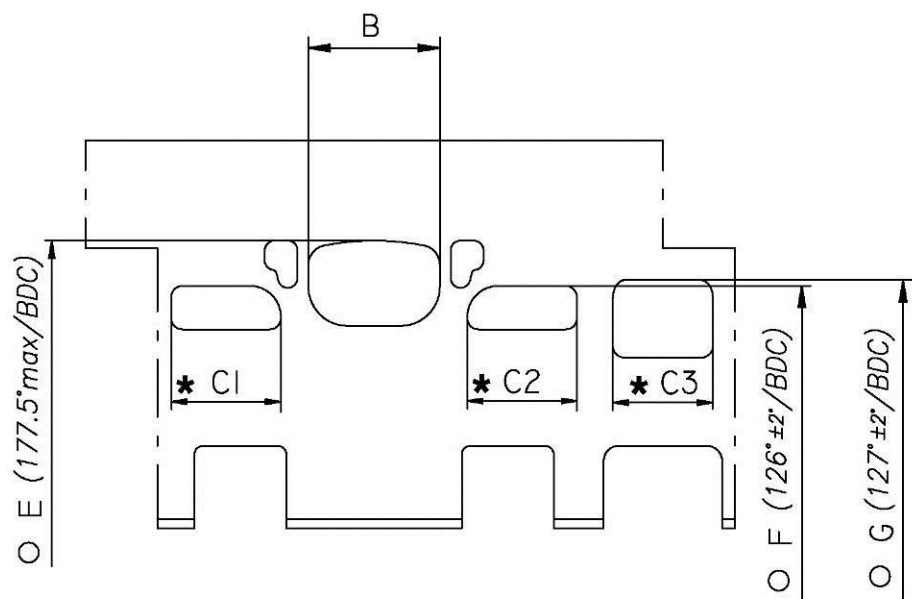
## FEATURES - CARACTERISTIQUES

|  |                                |
|--|--------------------------------|
| Cylinder volume<br><i>Volume du cylindre</i>                               | 123.67 cm <sup>3</sup>         |
| Bore<br><i>Alésage</i>   | 54 mm                          |
| Max. theoretical bore<br><i>Alésage théorique max.</i>                     | 54.28 mm                       |
| Stroke<br><i>Course</i>  | 54 mm                          |
| Cooling system<br><i>Système de refroidissement</i>                        | Water<br><i>À Eau</i>          |
| Inlet system<br><i>Système d'admission</i>                                 | Reed valve<br><i>À clapets</i> |
| Cylinder / crankcase transfers n°<br><i>N° de canaux cylindre / carter</i> | 3 / 3                          |

|   |                         |   |                               |
|---|-------------------------|---|-------------------------------|
| Carburetor Tillotson<br><i>Carburateur Tillotson</i>                        | HW-27A<br>(Ø27 Venturi) | Inlet / exhaust ports number<br><i>N° lumières admiss. / échapp.</i>        | 3 / 3                         |
| Number of piston rings<br><i>Nombre de segments</i>                         | 1                       | Combustion chamber shape<br><i>Forme chambre de combustion</i>              | Spherical<br><i>Sphérique</i> |
| Big end conr. ball-bearing diam.<br><i>Diamètre palier tête de bielle</i>   | 20x26x15                | Selettra or PVL ignition<br><i>Allumage Selettra ou PVL</i>                 | Digital                       |
| Crankshaft ball-bearing diam.<br><i>Diamètre palier du vilebrequin</i>      | 30x62x16                | Distance between conrod centers<br><i>Longueur (entre axe) de la bielle</i> | 102 mm                        |
| Small end conr. ball-bearing diam.<br><i>Diamètre palier pied de bielle</i> | 14x18x17.5              | RPM limiter<br><i>Limiteur de régime</i>                                    | Yes<br><i>Oui</i>             |
| Balancing shaft<br><i>Arbre d'équilibrage de vilebr.</i>                    | Yes<br><i>Oui</i>       | Electric starter<br><i>Démarrreur électrique</i>                            | Yes<br><i>Oui</i>             |

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

# CYLINDER DEVELOPMENT - DEVELOPPEMENT DU CYLINDRE

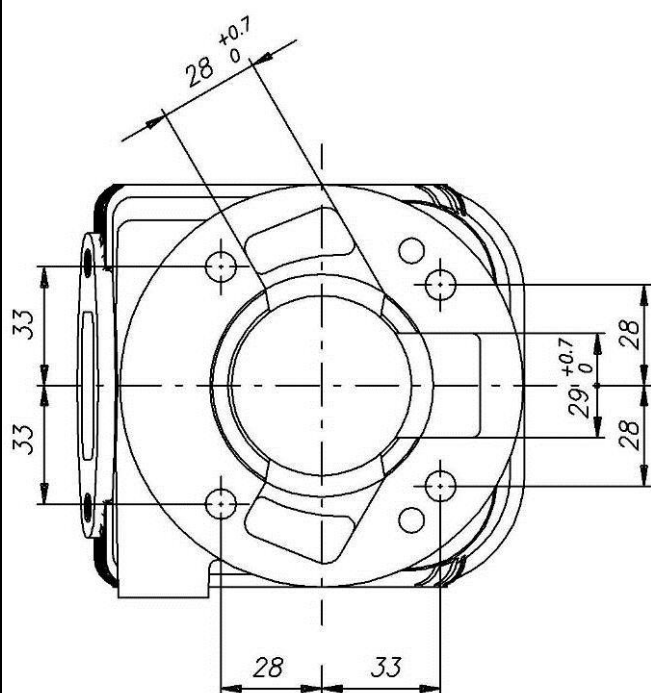


|         |                           |
|---------|---------------------------|
| B       | $\leq 36.5 \text{ mm}$    |
| C1 = C2 | $\leq 30 \text{ mm}$      |
| C3      | $\leq 28.5 \text{ mm}$    |
| E       | $177.5^\circ \text{ max}$ |
| F       | $126^\circ \pm 2^\circ$   |
| G       | $127^\circ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

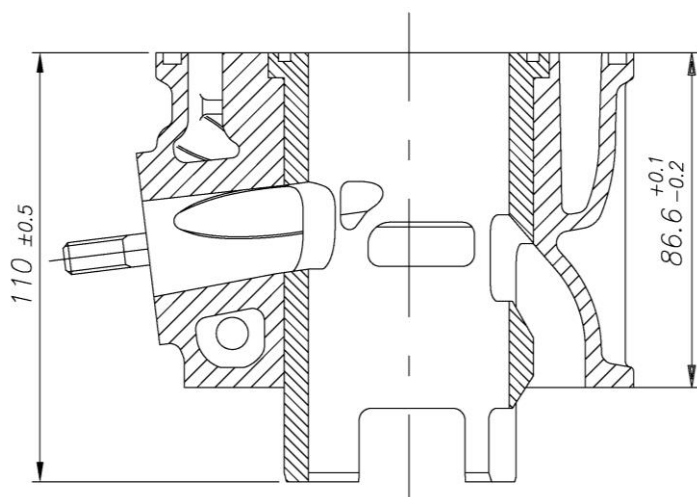
\* CHORDAL READING  
LECTURE CORDALE

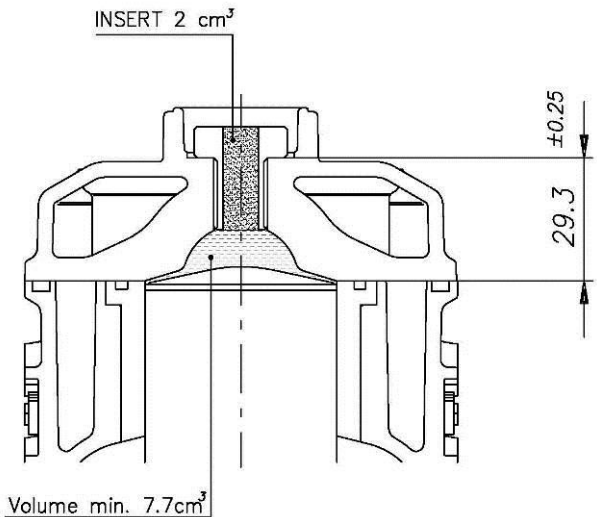
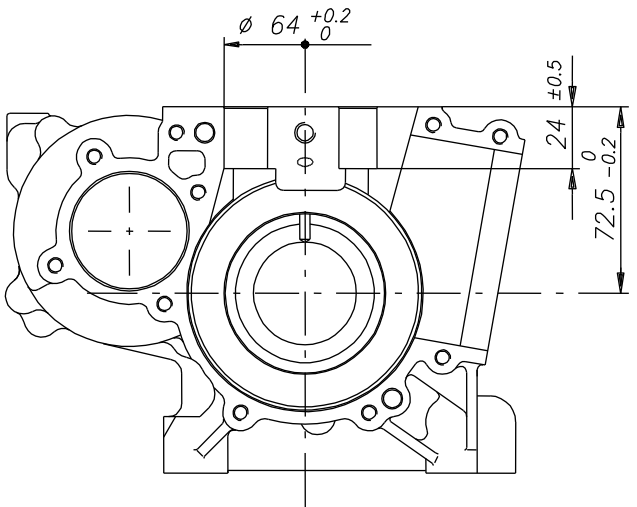
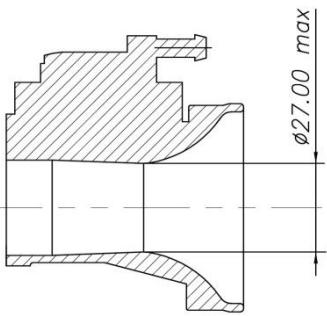
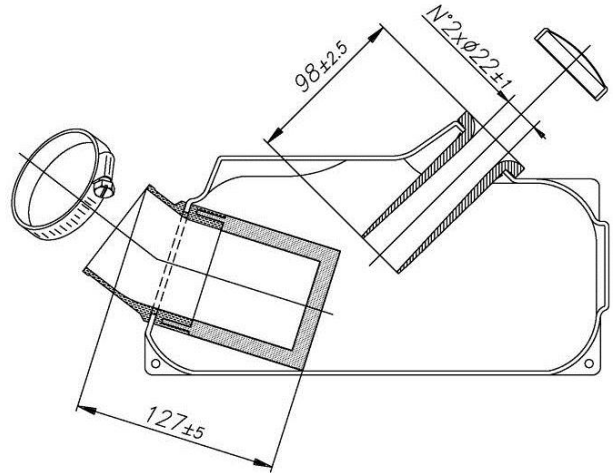
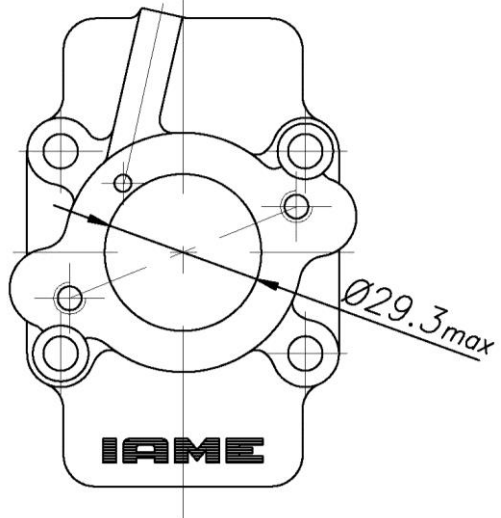
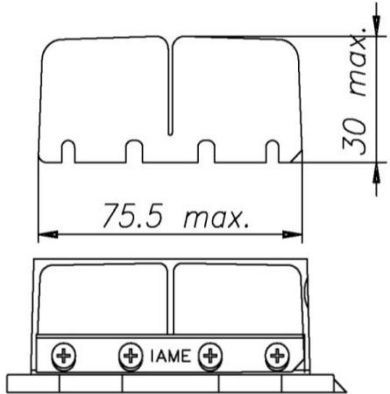
○ ANGULAR READING BY INSERTING A 0.2x5 mm GAUGE  
LECTURE ANGULAIRE PAR INSERTION D'UNE CALE DE 0.2x5 mm

## CYLINDER BASE VIEW VUE DE LA BASE DU CYLINDRE

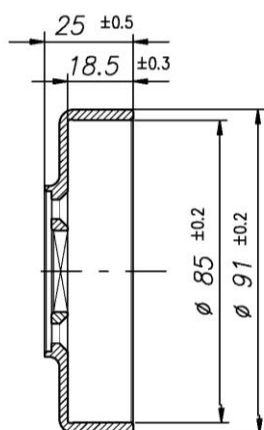
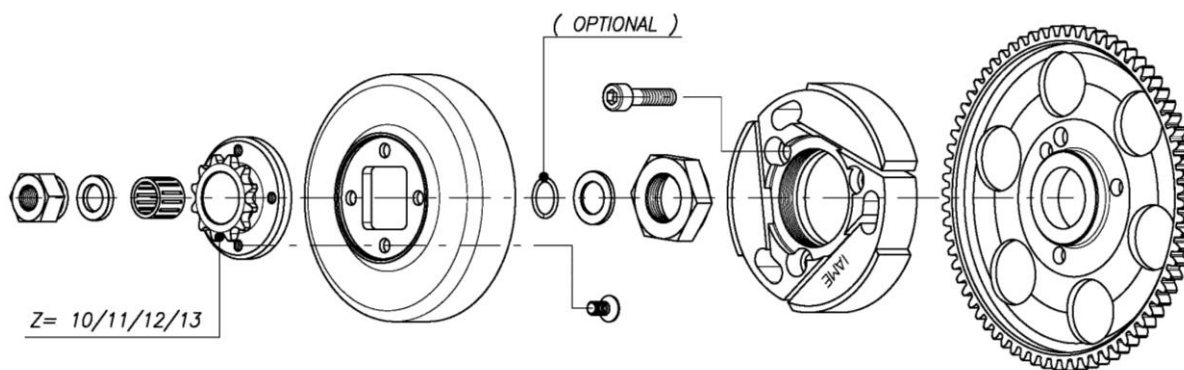


## CYLINDER CROSS SECTION VIEW VUE EN SECTION DU CYLINDRE

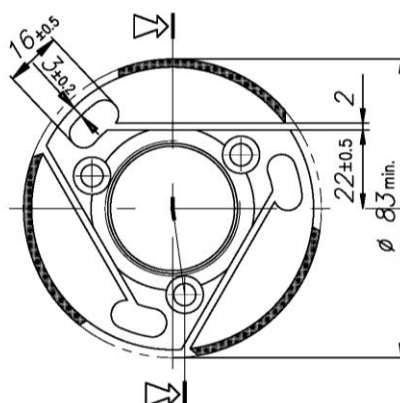


|   |  |
|---|--|
| <p><b>COMBUSTION CHAMBER VIEW</b><br/><i>VUE DE LA CHAMBRE DE COMPRESSION</i></p>  <p>INSERT 2 cm<sup>3</sup></p> <p>±0.25</p> <p>29.3</p> <p>Volume min. 7.7cm<sup>3</sup></p> <p><b>COMBUSTION CHAMBER VOLUME TOT. = 9.7 cm<sup>3</sup> min.</b><br/><b>VOLUME CHAMBRE COMBUSTION TOT. = 9.7 cm<sup>3</sup> min.</b></p> <p><b>ATT.: SQUISH MIN. = 0.90 mm</b><br/>(measured with Ø1.5mm TIN - mesurée avec de l'étain Ø1.5mm)</p> | <p><b>CRANKCASE INSIDE VIEW</b><br/><i>VUE A' L' INTERIEUR DU CARTER</i></p>  <p>Ø 64 <sup>+0.2</sup>/<sub>0</sub></p> <p>24 ±0.5</p> <p>72.5 -0.2/0</p> |
| <p><b>VENTURI CARB. DIMENSIONS</b><br/><i>DIMENSIONS DU VENTURI DU CARBURATEUR</i></p>  <p>Ø27.00 max</p>  | <p><b>INLET SILENCER</b><br/><i>SILENCIEUX D' ASPIRATION</i></p>  <p>98±2.5</p> <p>N°2xØ22±1</p> <p>127±5</p>  |
| <p><b>INLET CONVEYOR DIMENSIONS</b><br/><i>CONVOYEUR D'ADMISSION</i></p>  <p>Ø29.3max</p> <p><b>IAME</b></p>   | <p><b>REEDS DIMENSIONS / CLAPETS</b></p>  <p>30 max.</p> <p>75.5 max.</p> <p><b>IAME</b></p>   |

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



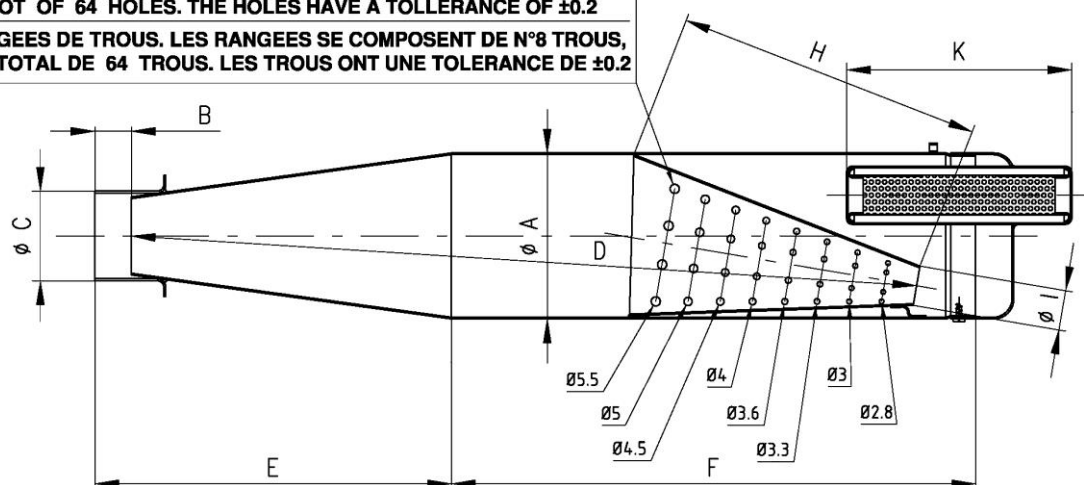
Min. weight 225 g  
Poids min. 225g



Min. weight 375 g  
Poids min. 375g

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

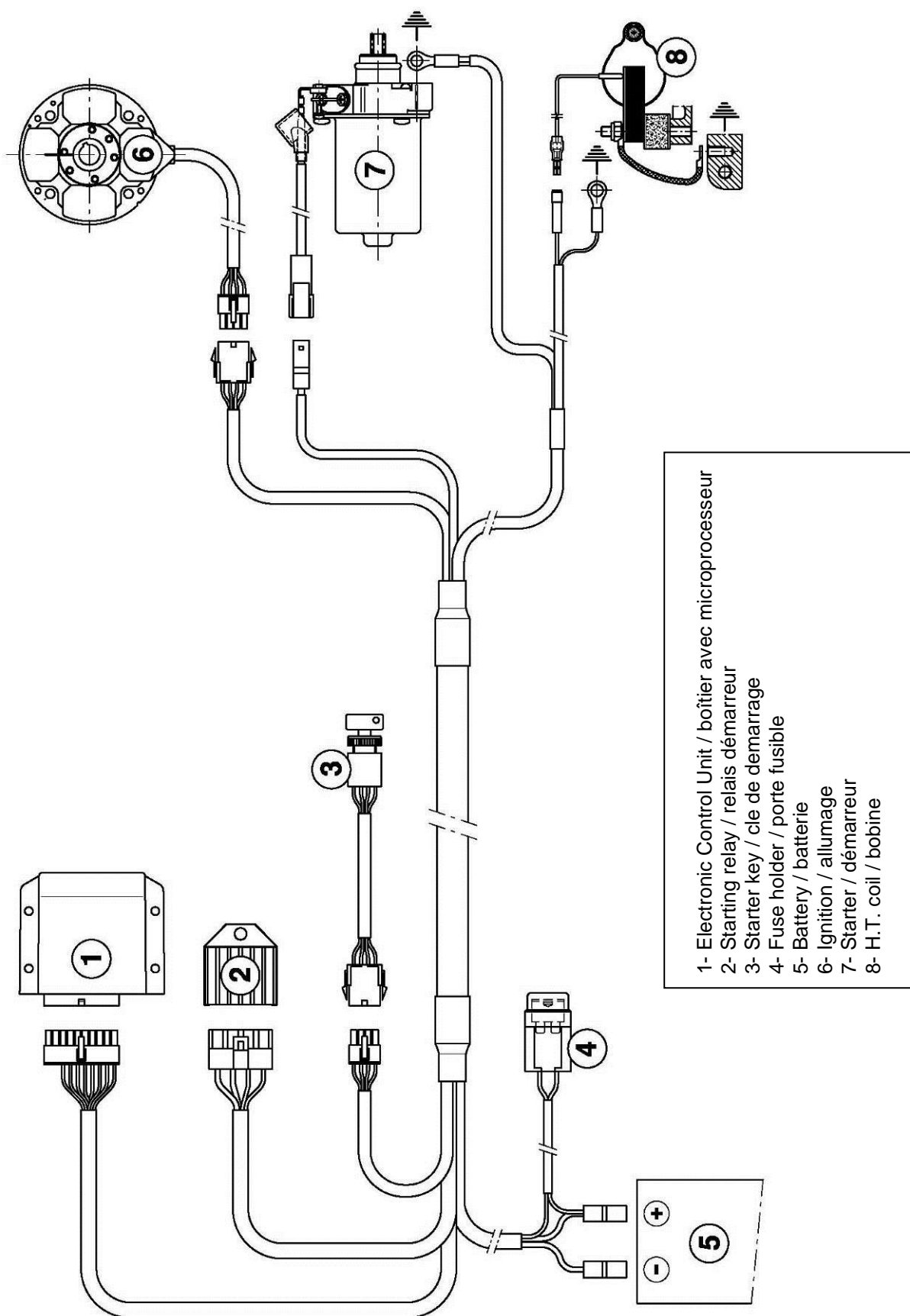
N° 8 ROWS OF HOLES. THE ROWS ARE COMPOSED OF N°8 HOLES,  
FOR A TOT OF 64 HOLES. THE HOLES HAVE A TOLERANCE OF ±0.2  
N° 8 RANGEES DE TROUS. LES RANGEES SE COMPOSENT DE N°8 TROUS,  
POUR UN TOTAL DE 64 TROUS. LES TROUS ONT UNE TOLERANCE DE ±0.2



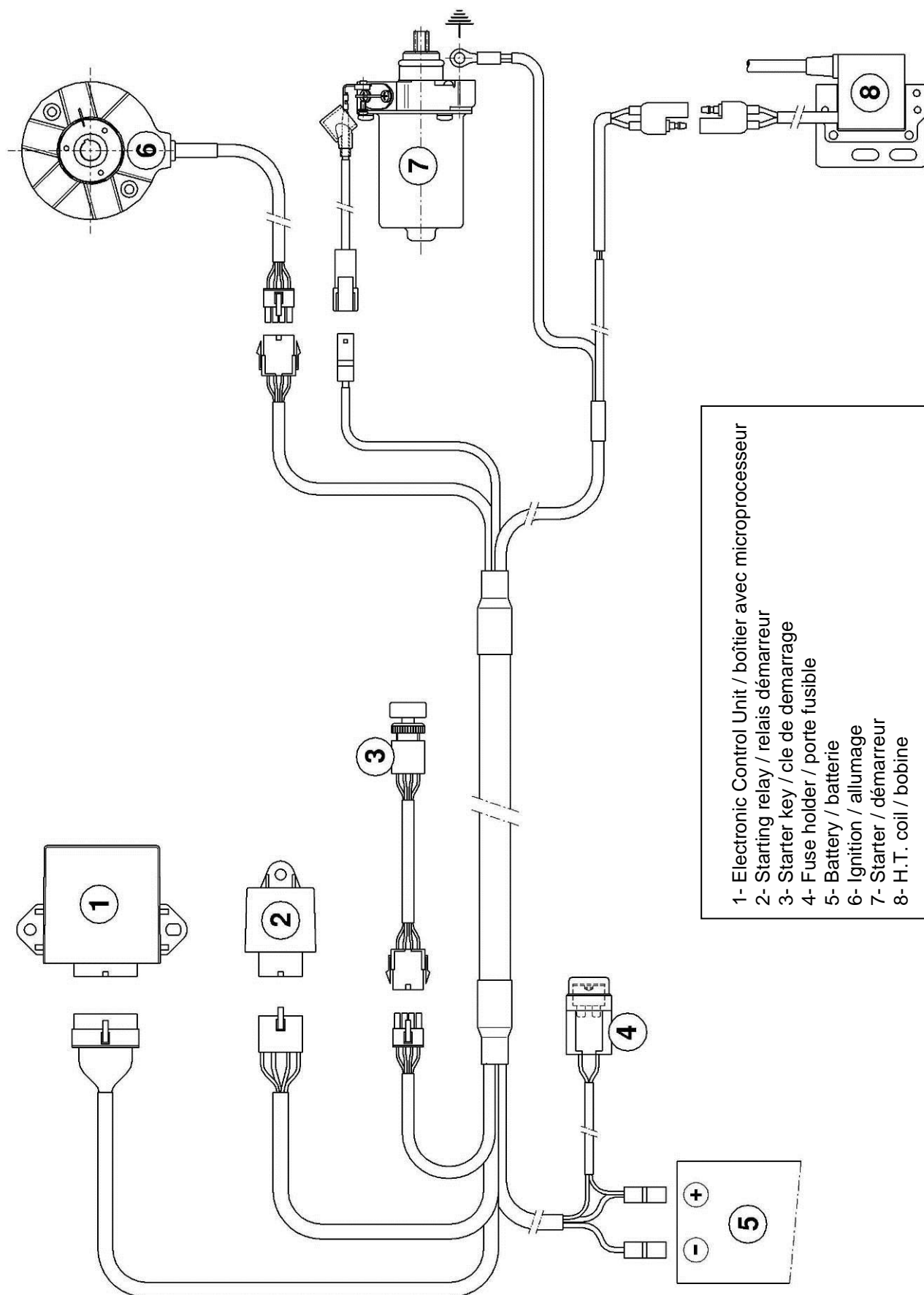
|                 |           |                |
|-----------------|-----------|----------------|
| A: 100 ±1 Øext. | D: 485 ±5 | H: 180 ±5      |
| B: 22 ±1        | E: 218 ±5 | I: 24 ±2 Øext. |
| C: 54 ±1 Øext.  | F: 315 ±3 | K: 130 ±3      |

Min. weight 1.39 Kg  
Poids min. 1.39 Kg

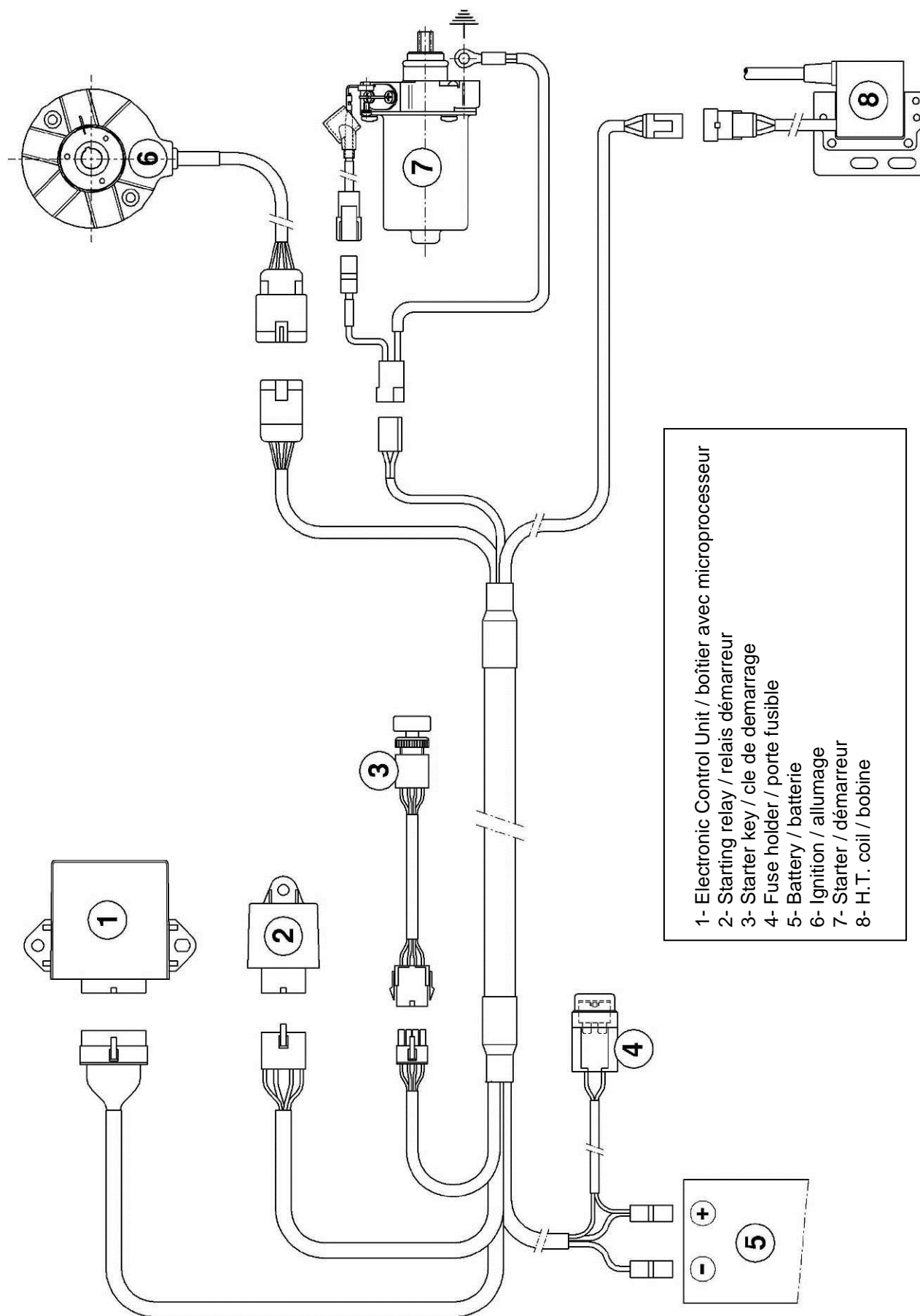
WIRING DIAGRAM ( SELETTRA DIGITAL "K" IGNITION )  
 SCHEMA CIRCUIT ELECTRIQUE ( ALLUMAGE SELETTRA DIGITAL "K" )



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

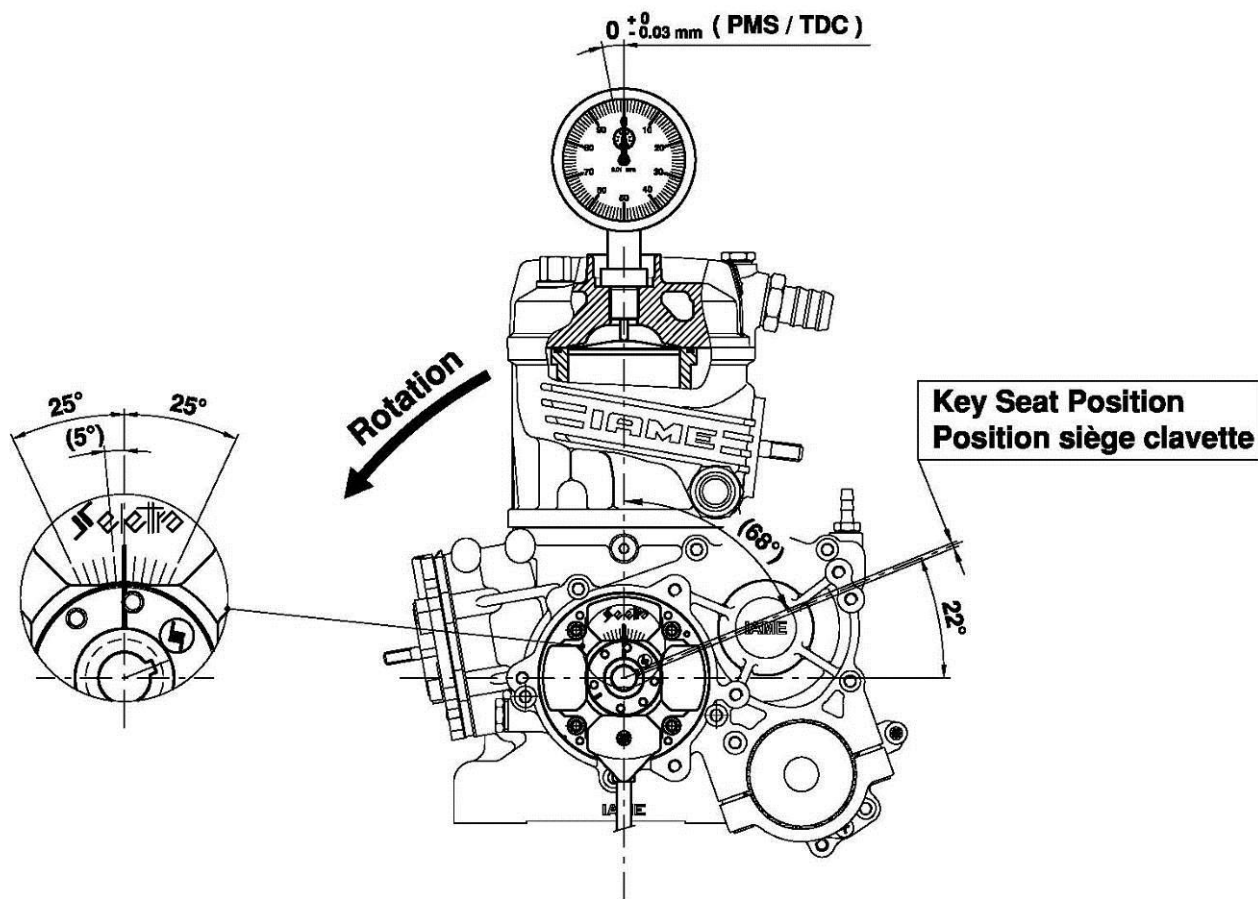


WIRING DIAGRAM ( PVL IGNITION, 2<sup>nd</sup> TYPE )  
 SCHEMA CIRCUIT ELECTRIQUE ( ALLUMAGE PVL, 2<sup>ème</sup> TYPE )

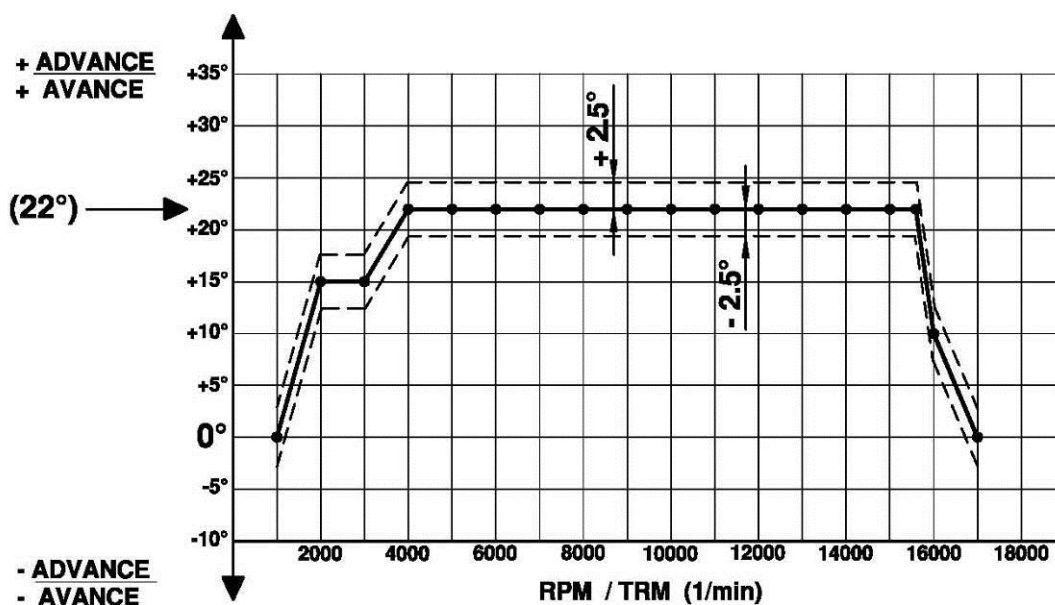




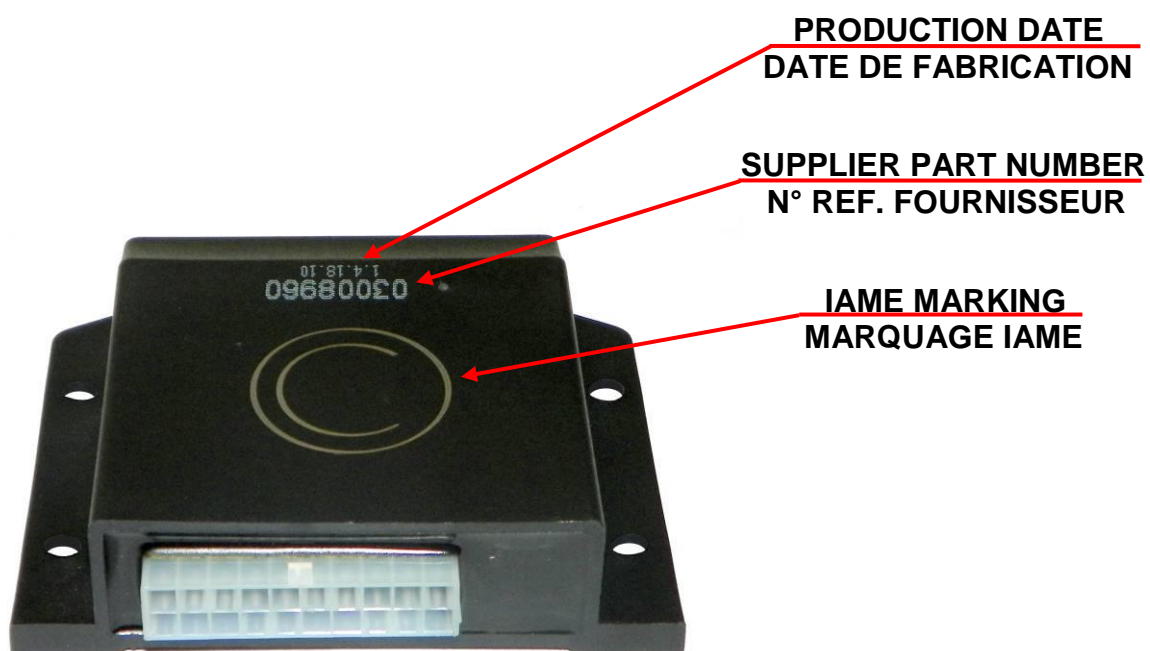
# SCHEME FOR ADVANCE CONTROL SCHEMA DE CONTROLE POUR L'AVANCE



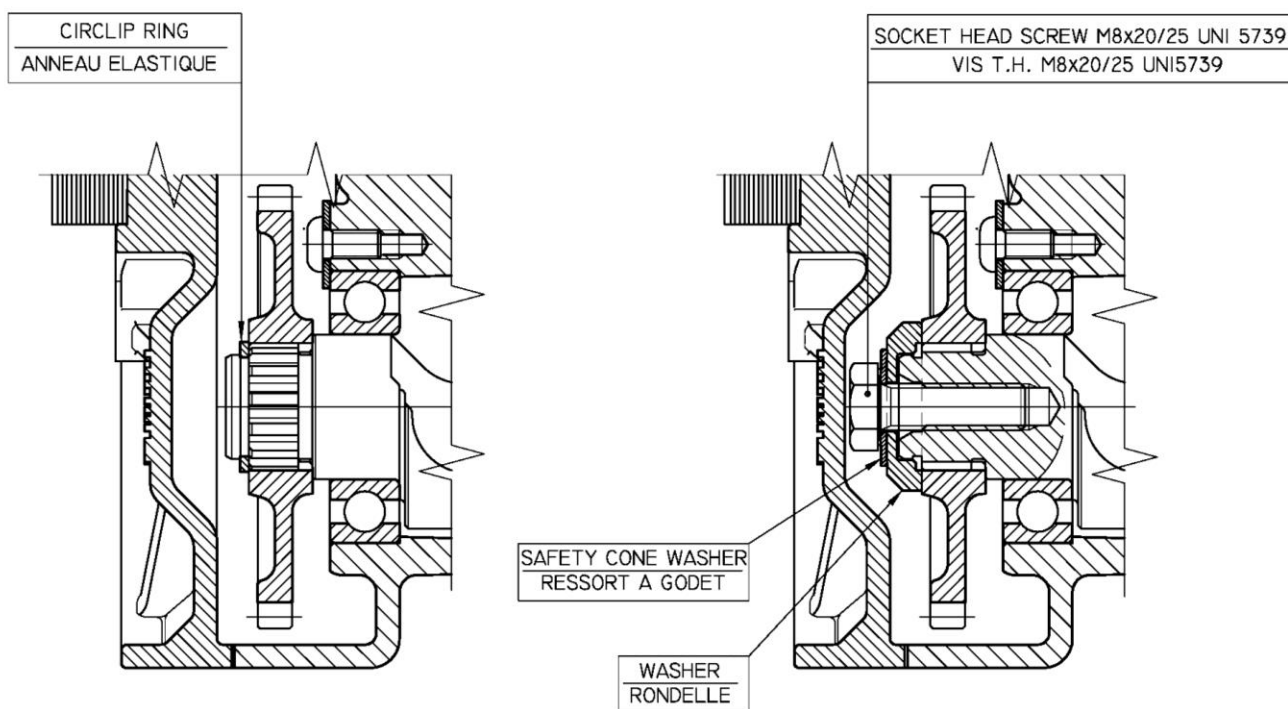
## ADVANCE CURVE GRAPHS / GRAPHIQUES DE LA COURBE D'AVANCE



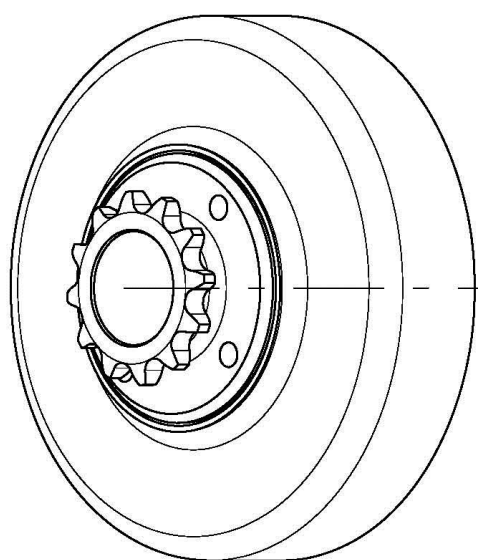
# ELECTRONIC BOX MARKING MARQUAGE DU BOITIER ELECTRONIQUE



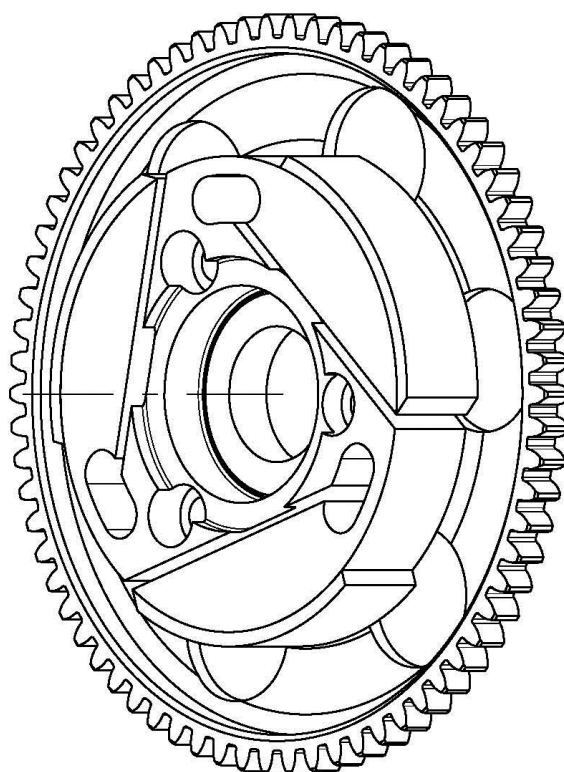
## GEAR ALTERNATIVE FIXING FIXATION ALTERNATIVE DE L' ENGRANAGE



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

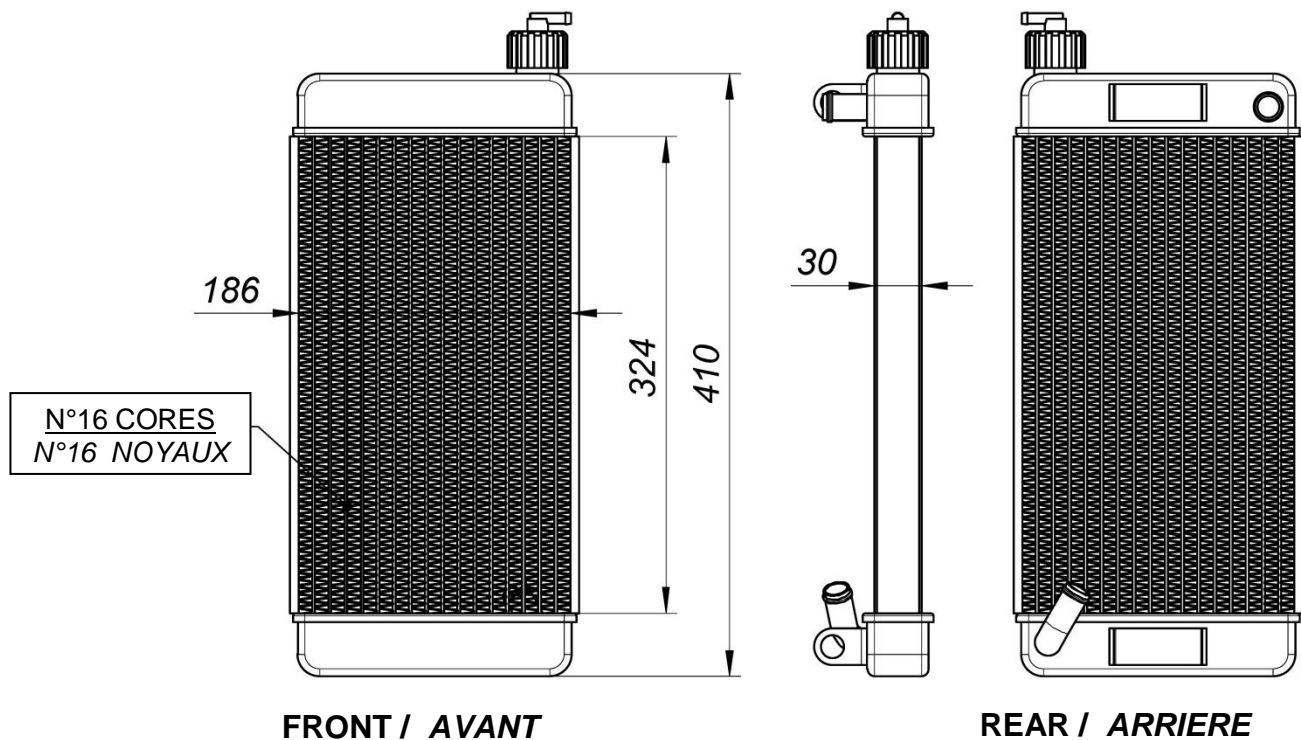


Min. weight 300 g  
Poids min. 300 g



Min. weight 680 g  
Poids min. 680 g

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



PAINTED AND NOT PAINTED  
 PEINT ET PAS PEINT



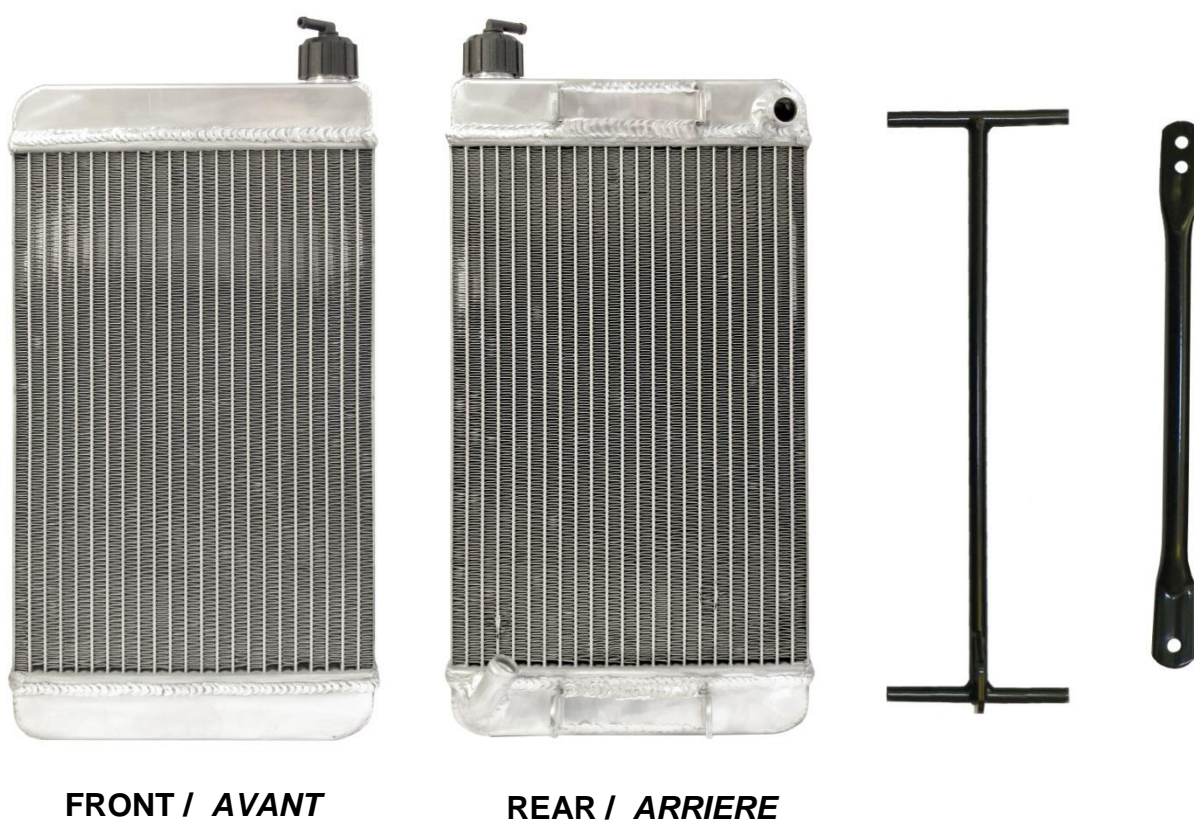
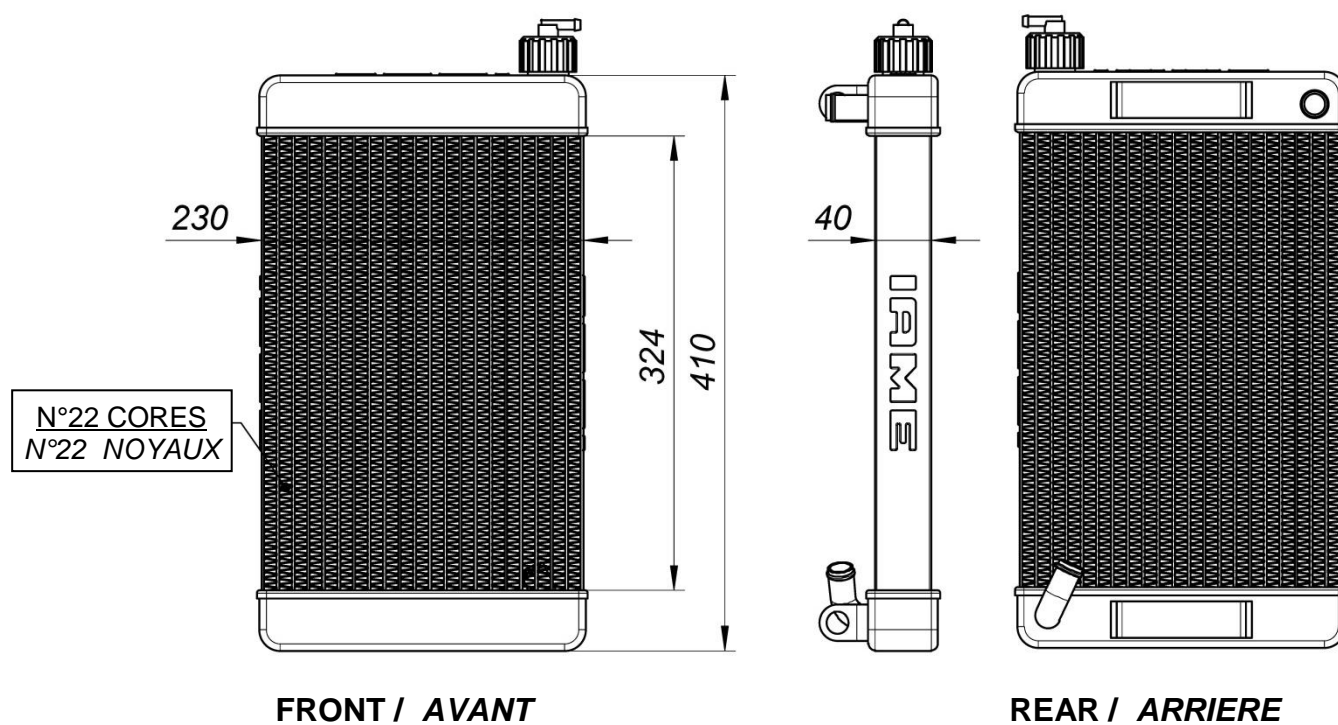
**FRONT / AVANT**

**REAR / ARRIERE**

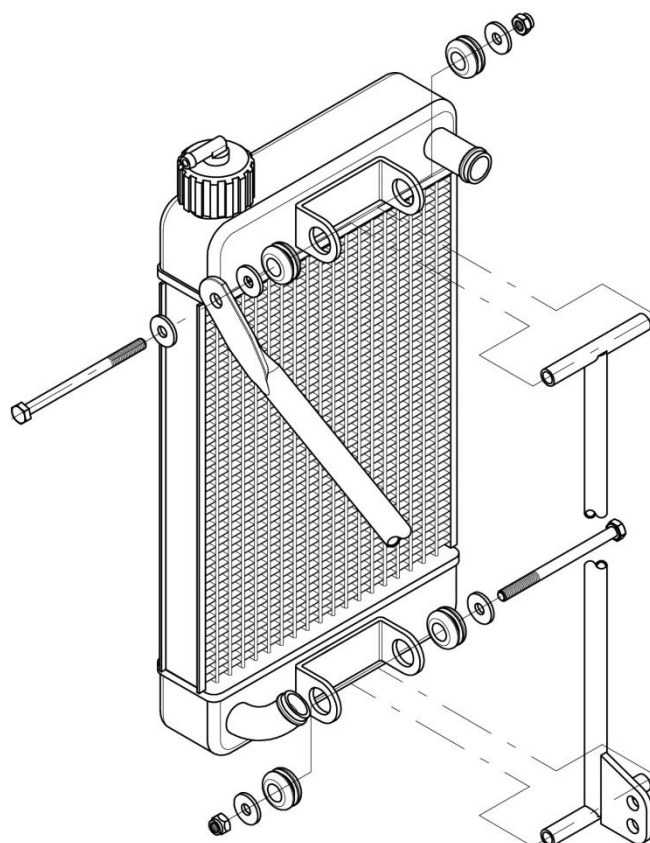




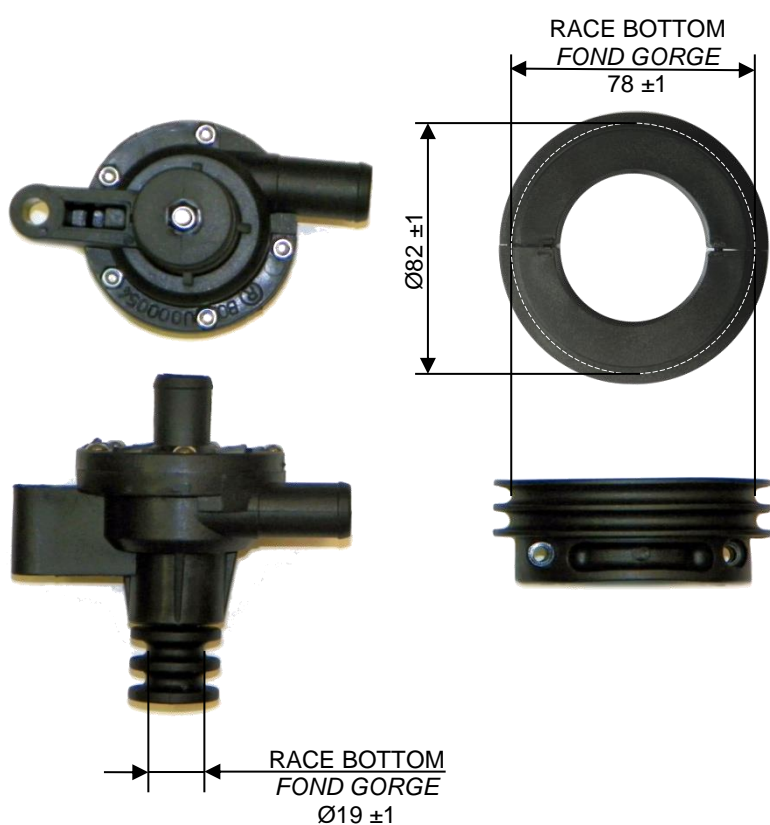
**RADIATOR ALTERNATIVE DESCRIPTION AND SKETCH**  
**DESCRIPTION DU RADIATEUR ALTERNATIVE**



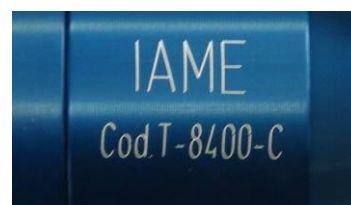
## RADIATOR AND ITS SUPPORTS RADIATEUR ET SES SUI TIEN



## WATER PUMP GROUP GROUPE POMPE A' EAU



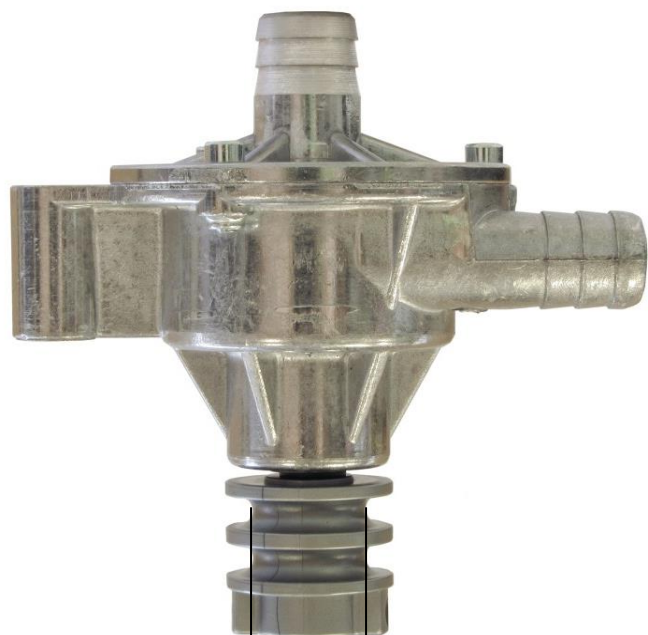
## THERMOSTAT



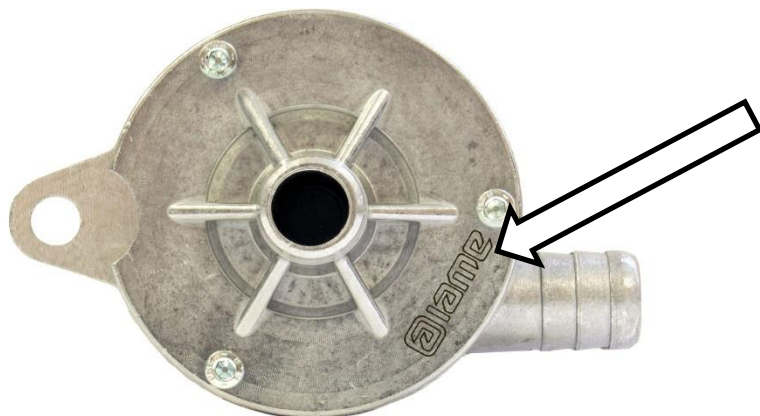
## ALTERNATIVE



ALTERNATIVE WATER PUMP & PULLEY  
 ALTERNATIVE GROUPE POMPE A' EAU ET POULIE



RACE BOTTOM - FOND GORGE  
 Ø20 ±1





PISTON IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION PISTON

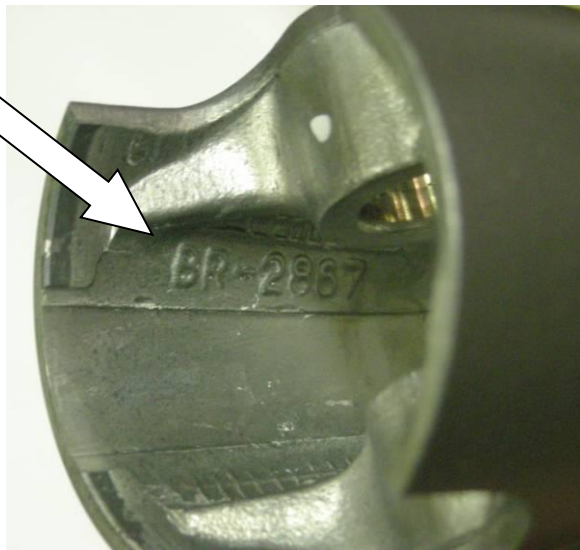
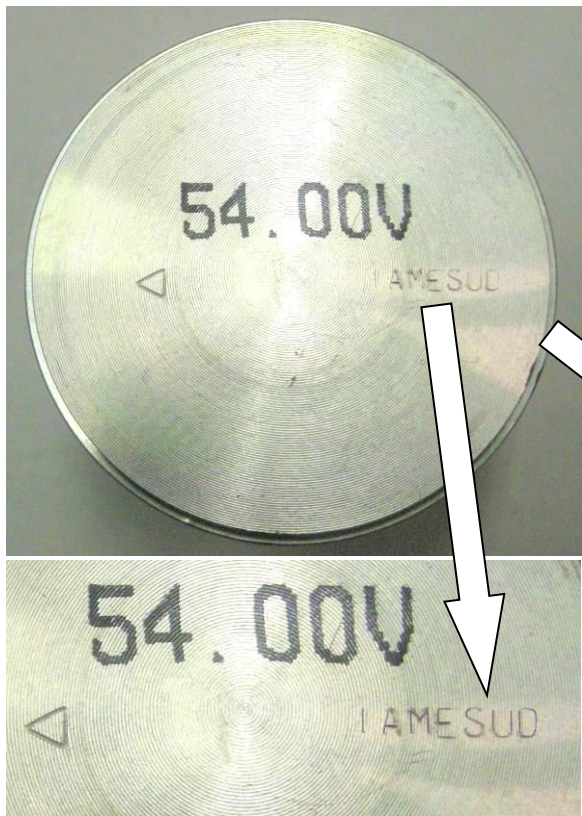
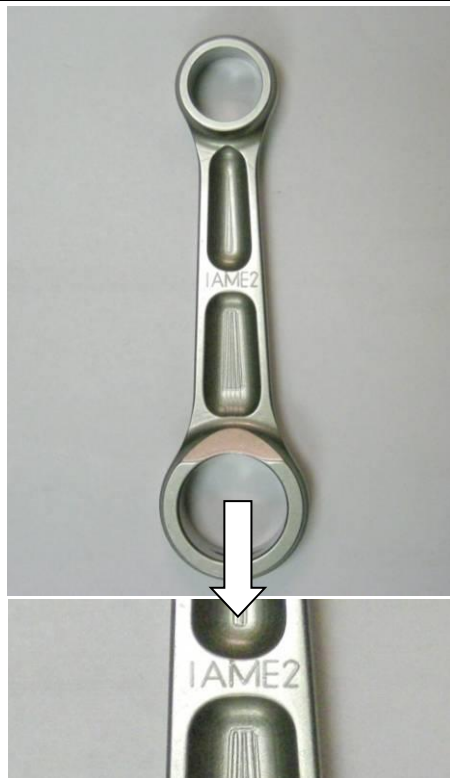
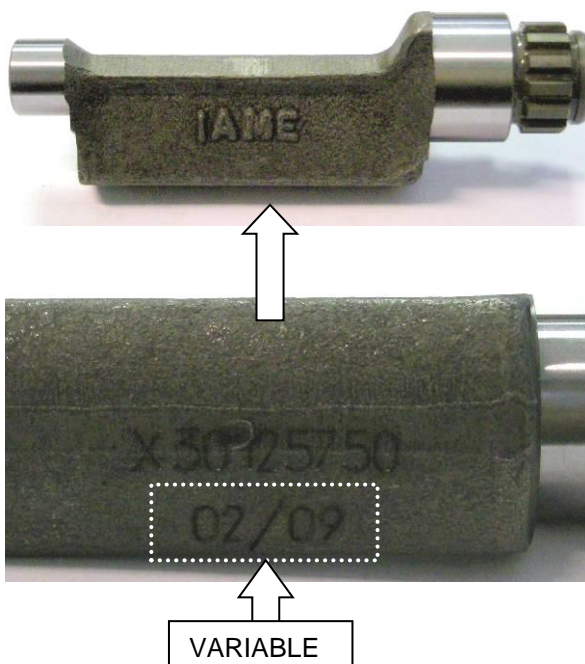


PHOTO IDENTIFICATION CONROD  
MARQUAGE D'IDENTIFICATION BIELLE

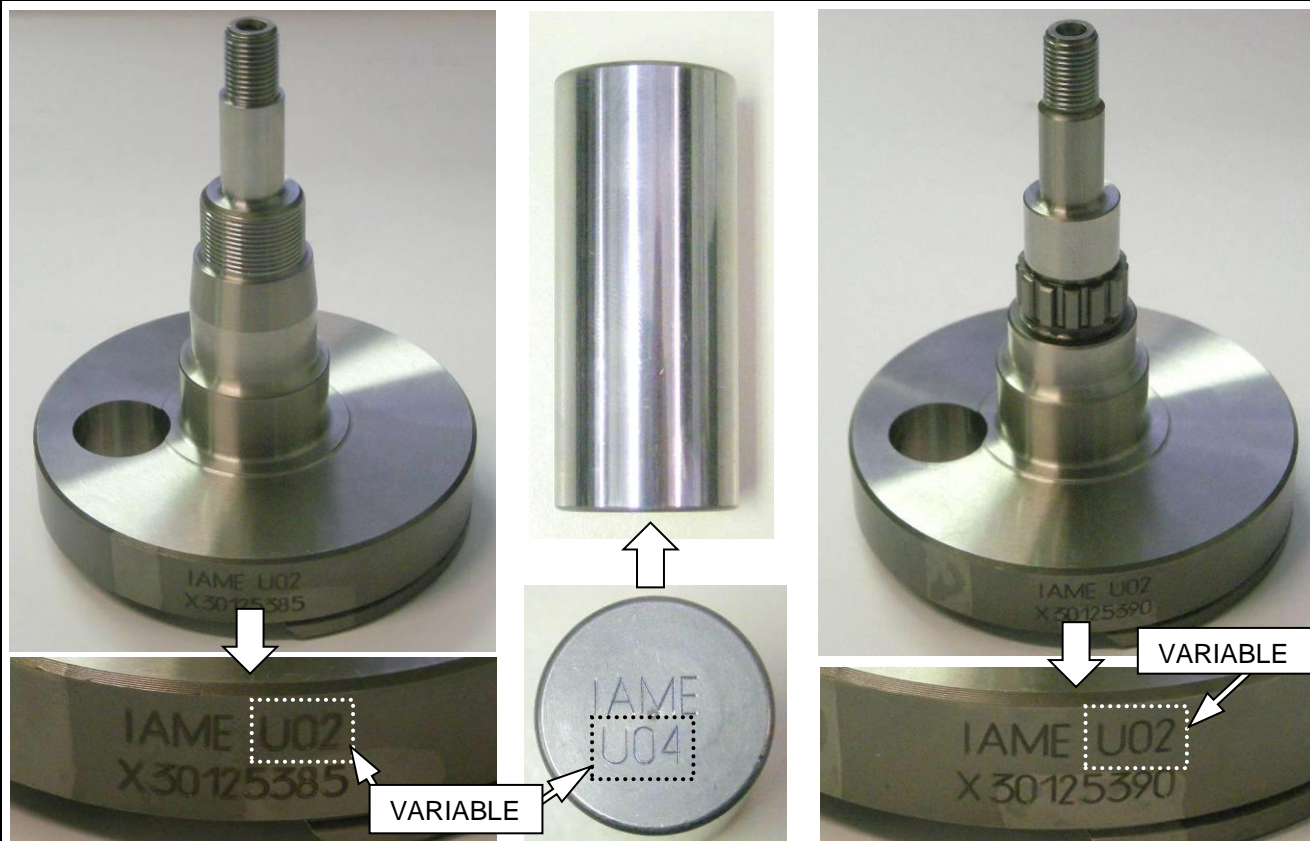


IDENTIFICATION BALANCING SHAFT  
MARKING  
MARQUAGE D'IDENTIFICATION ARBRE  
D'EQUILIBRAGE

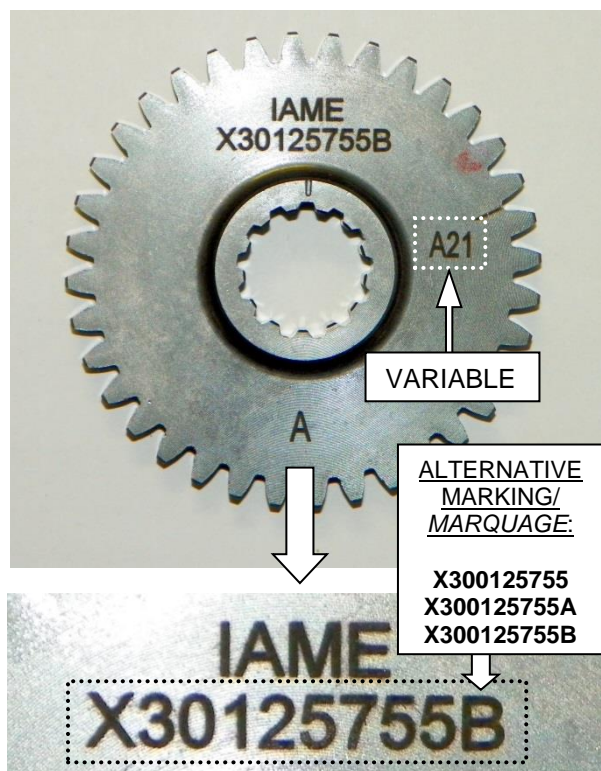




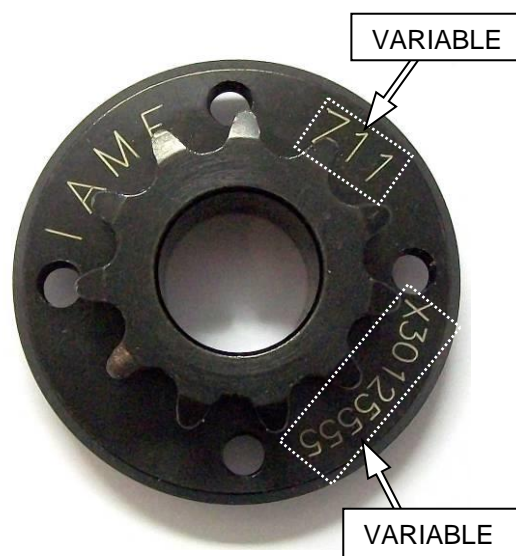
CRANKSHAFT IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DU VILEBREQUIN



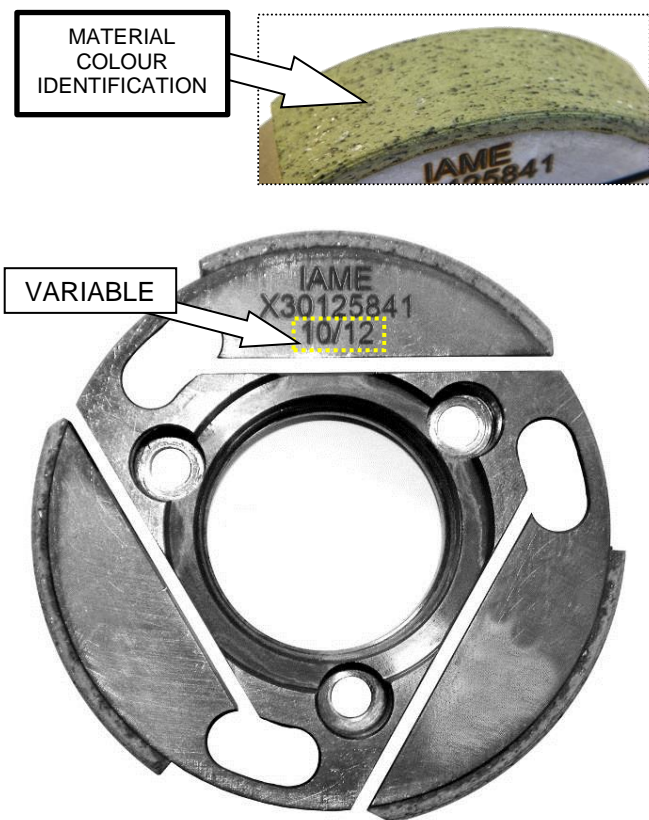
GEAR COMMAND BALANCING SHAFT  
IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION  
ENGRENAGE ARBRE D'EQUILIBRAGE



SPROCKET IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DU PIGNON



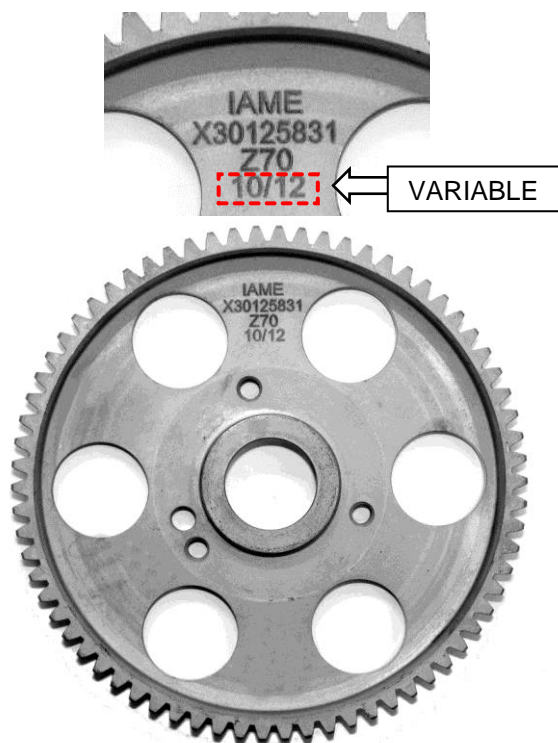
CLUTCH BODY IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION CORPS DE  
EMBRAYAGE



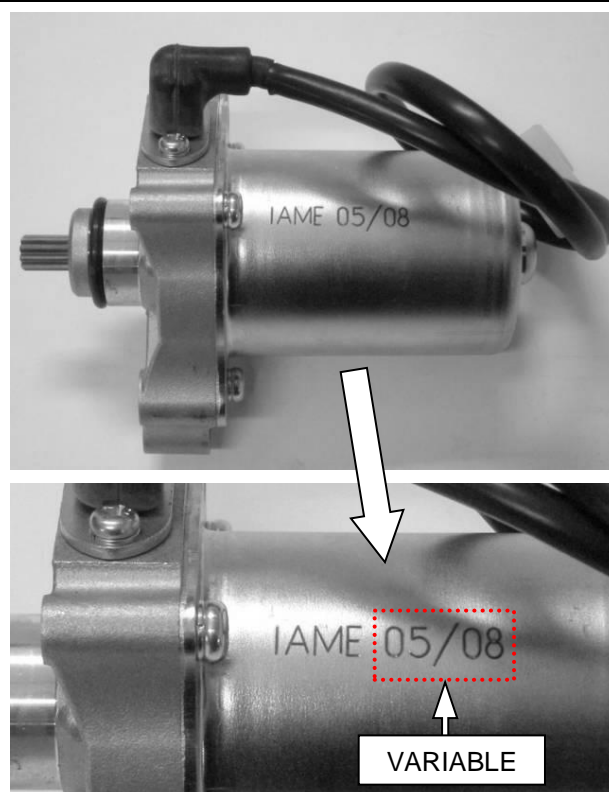
CLUTCH DRUM IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DE LA  
CALOTTE



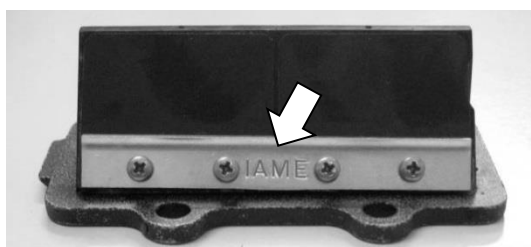
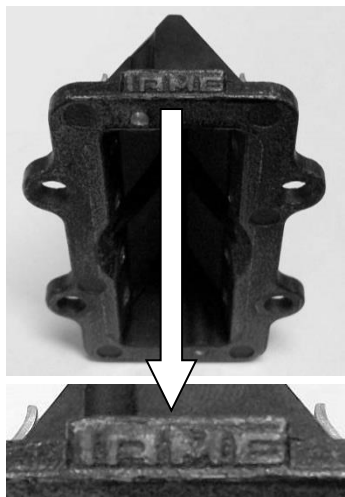
STARTER RING IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DE LA  
COURONNE DE DEMARRAGE



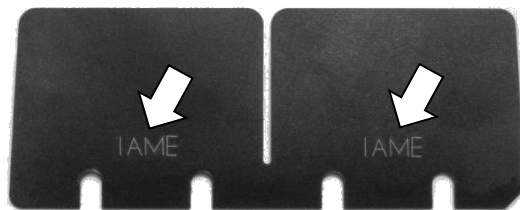
STARTER IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DU  
MOTEUR DEMARREUR



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

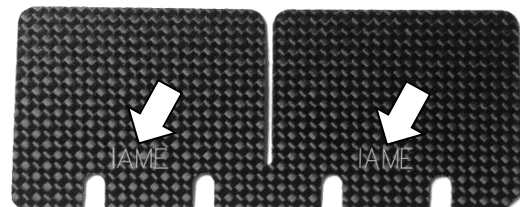


VETRONITE



CARBON FIBER

FRONT SIDE



REAR SIDE

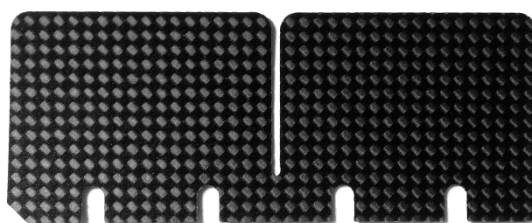
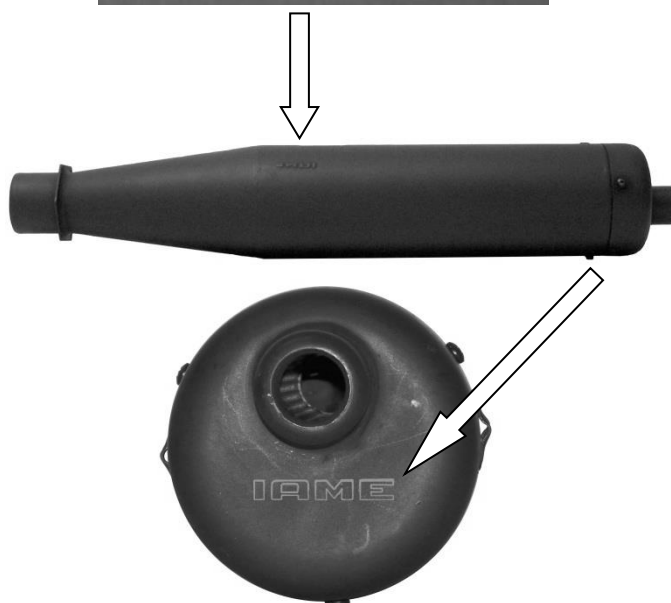


PHOTO IDENTIFICATION CARBURETOR  
INLET CONVEYOR  
MARQUAGE D'IDENTIFICATION DU  
COLLECTEUR D'ASPIRATION

EXHAUST SILENCER IDENTIFICATION  
MARKING  
MARQUAGE D'IDENTIFICATION  
ECHAPPEMENT

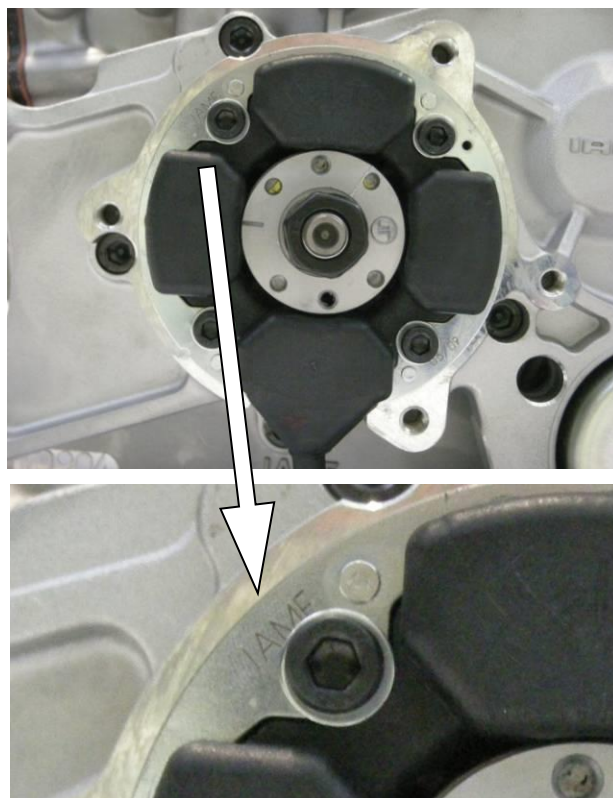




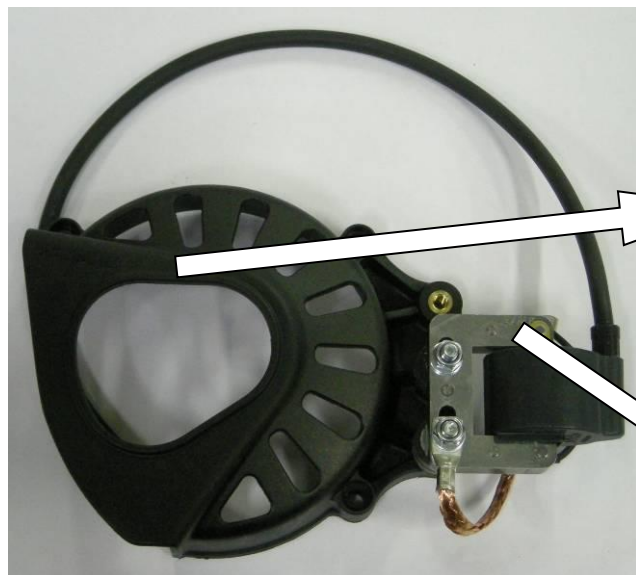
HEADER EXHAUST IDENTIFICATION MARKING  
MARQUAGE DU COUDE D'ÉCHAPPEMENT



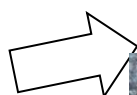
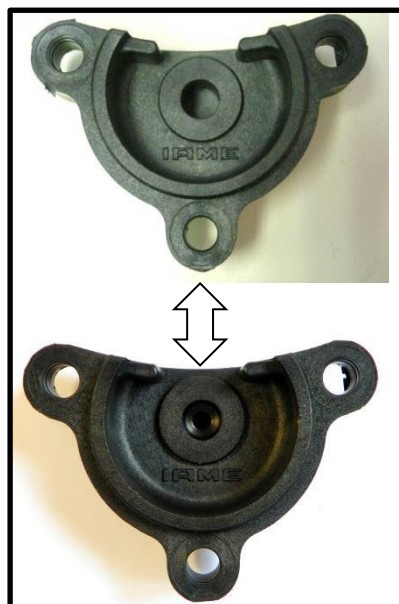
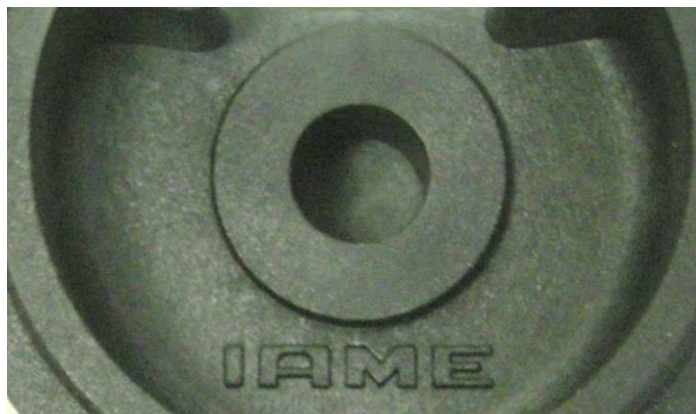
STATOR IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DU STATOR



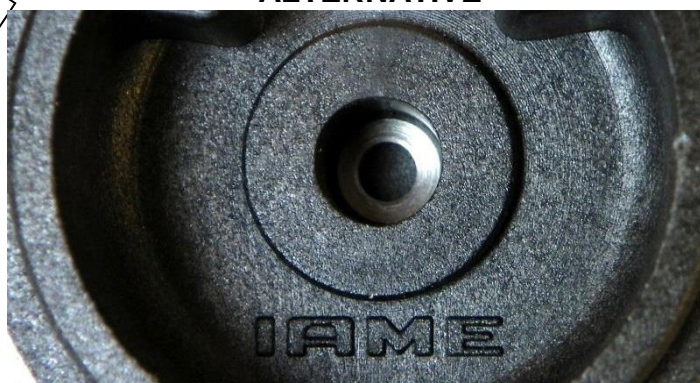
CLUTCH COVER AND H.T. COIL IDENTIFICATION MARKING  
MARQUAGE DU COUVERCLE D'EMBRAYAGE ET DE LA BOBINE



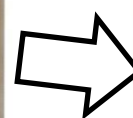
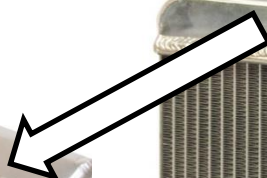
BENDIX COVER IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DU COUVERCLE  
DU CONTRE-ARBRE DE DEMARRAGE



ALTERNATIVE

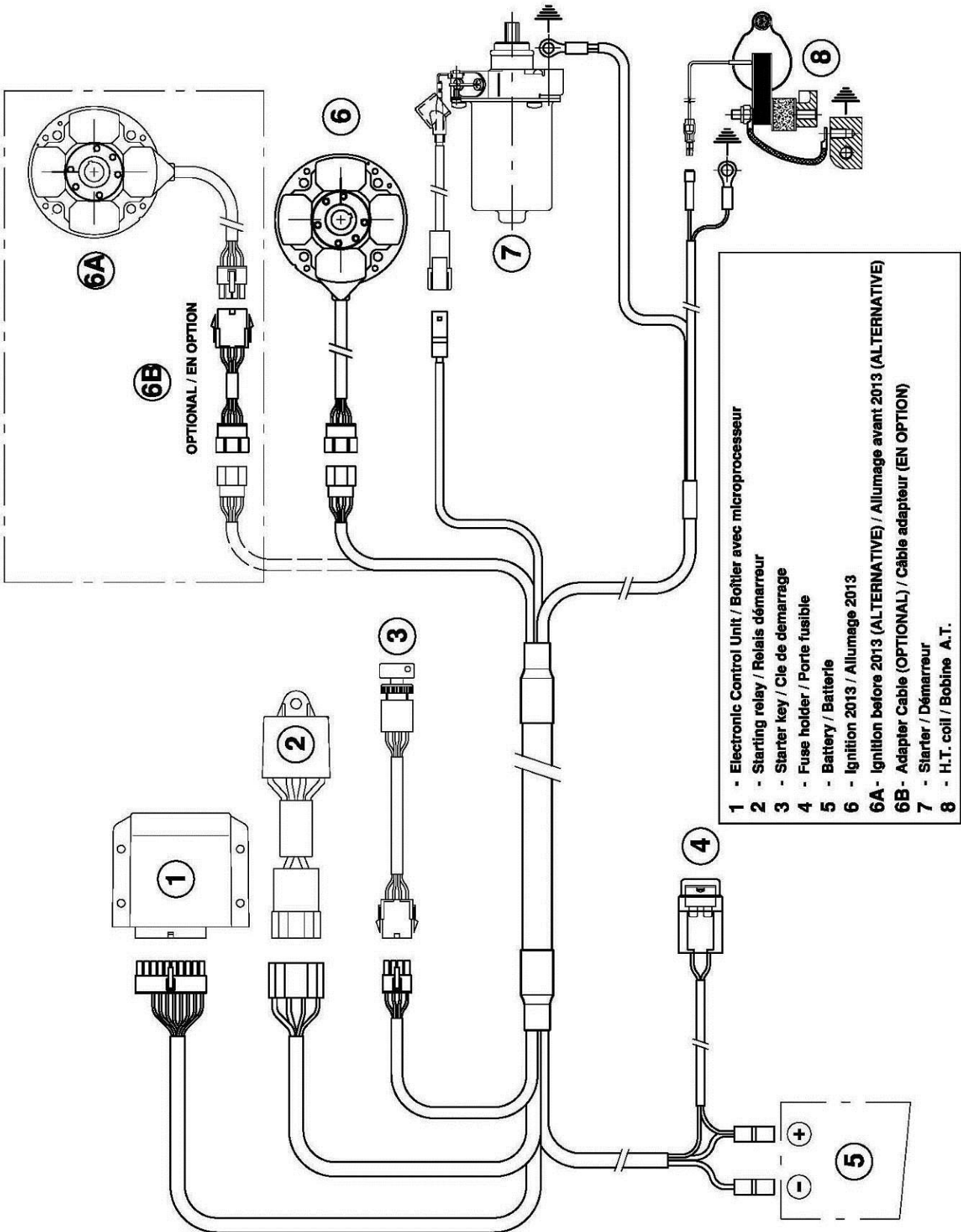


ALTERNATIVE RADIATOR IAME IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DU RADIATOR ALTERNATIVE



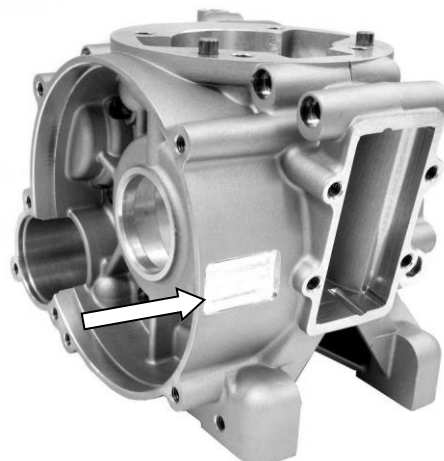
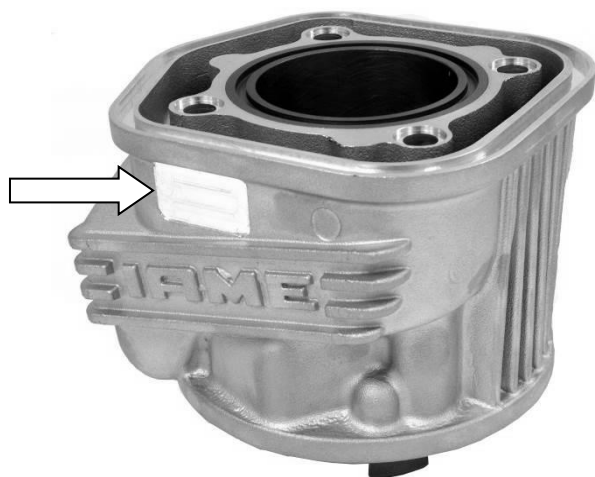


WIRING DIAGRAM ( SELETTA DIGITAL "K" IGNITION 2013 )  
SCHEMA CIRCUIT ELECTRIQUE ( ALLUMAGE SELETTA DIGITAL "K" 2013 )

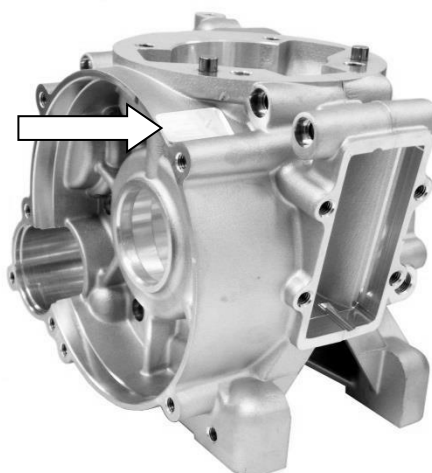


# FROM 2014 ON - A PARTIR DE 2014

STICKER APPLICATION AREA - ESPACE POUR L'APPLICATION DE ADHÉSIFS

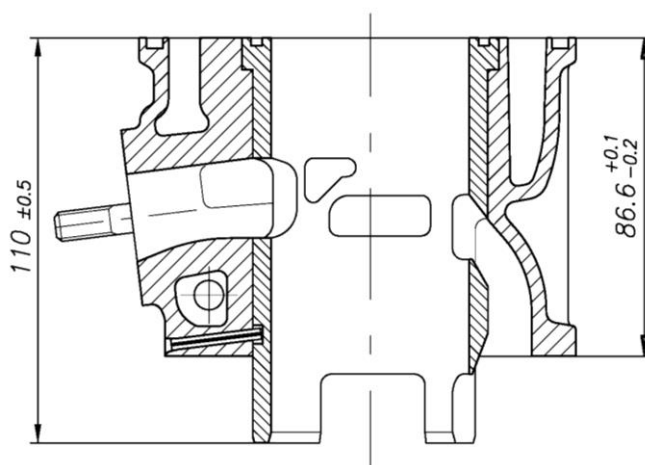
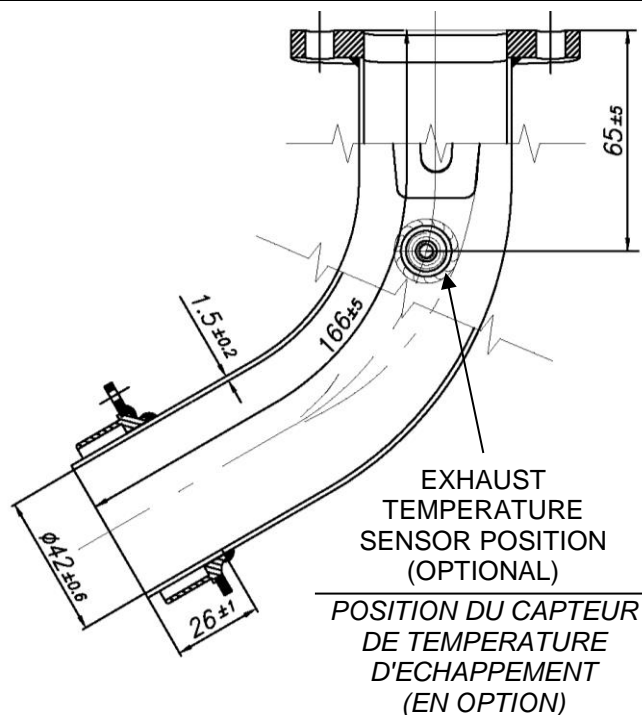


ALTERNATIVE AREA

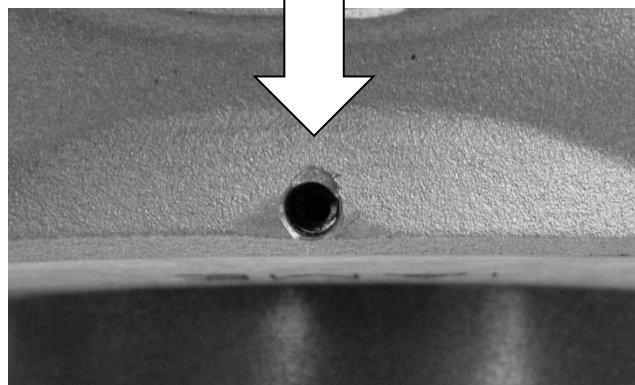
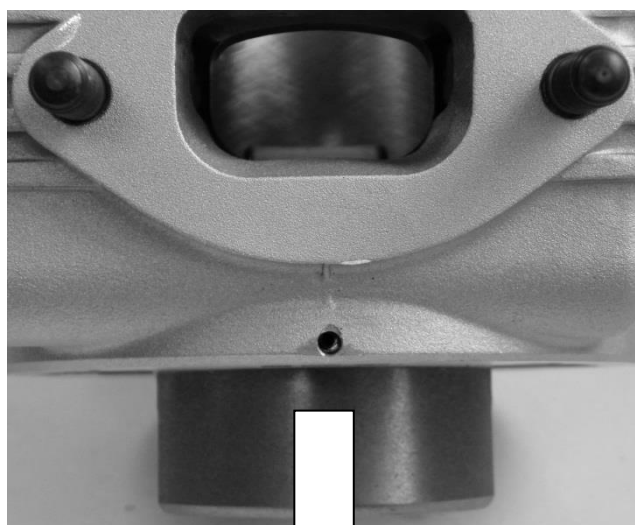
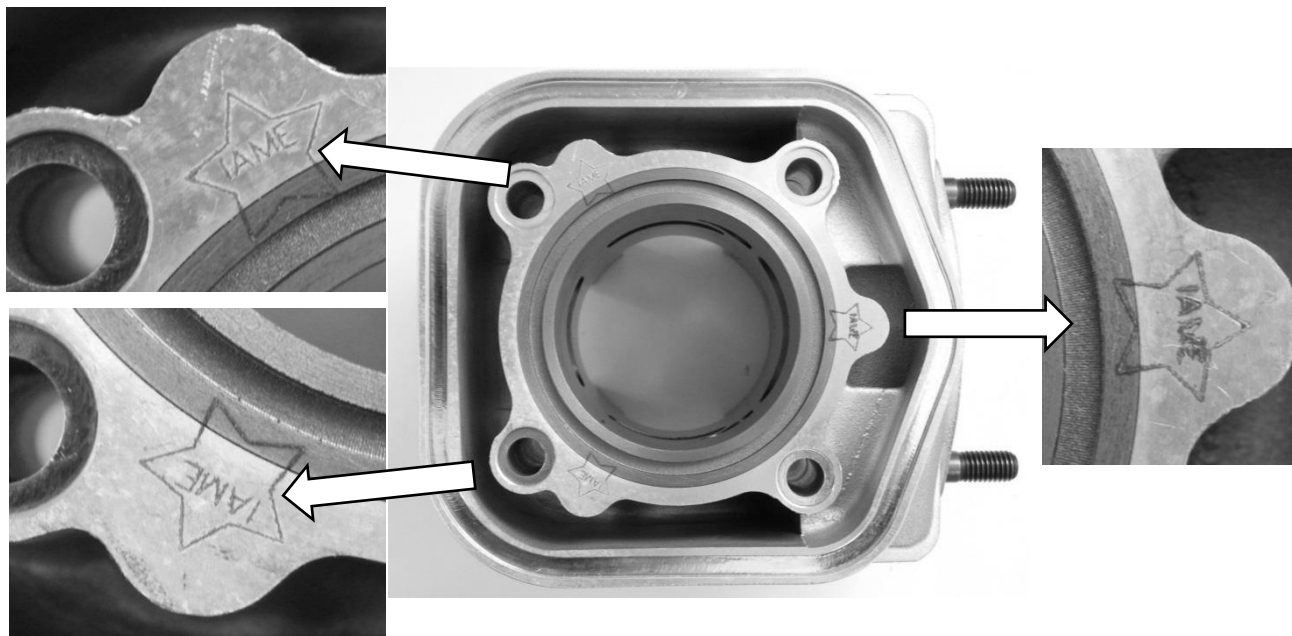


HEADER EXHAUST DIMENSIONS  
CODE D'ÉCHAPPEMENT TAILLE

CYLINDER CROSS SECTION VIEW  
VUE EN SECTION DU CYLINDRE



CYLINDER IDENTIFICATION MARKING  
MARQUAGE D'IDENTIFICATION DU CYLINDRE





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

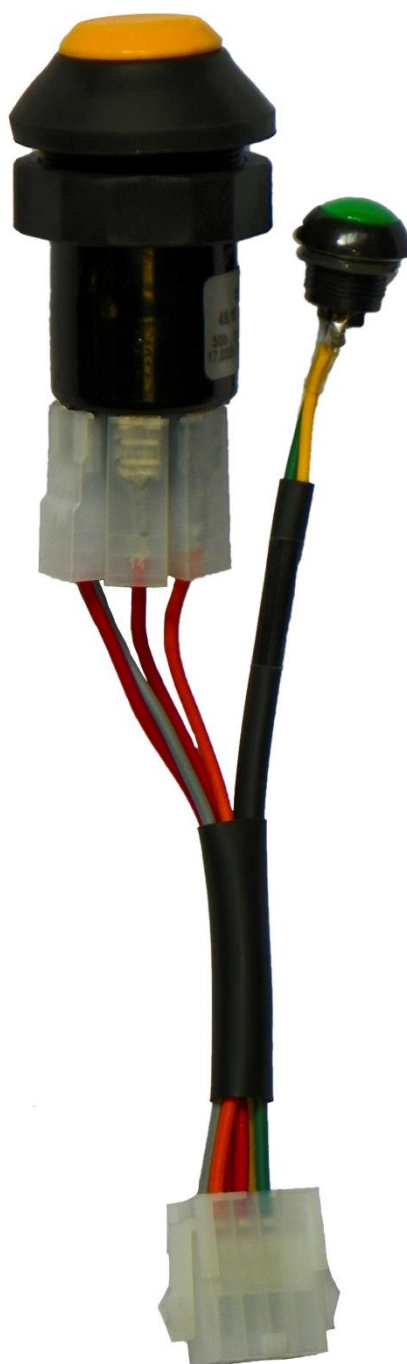
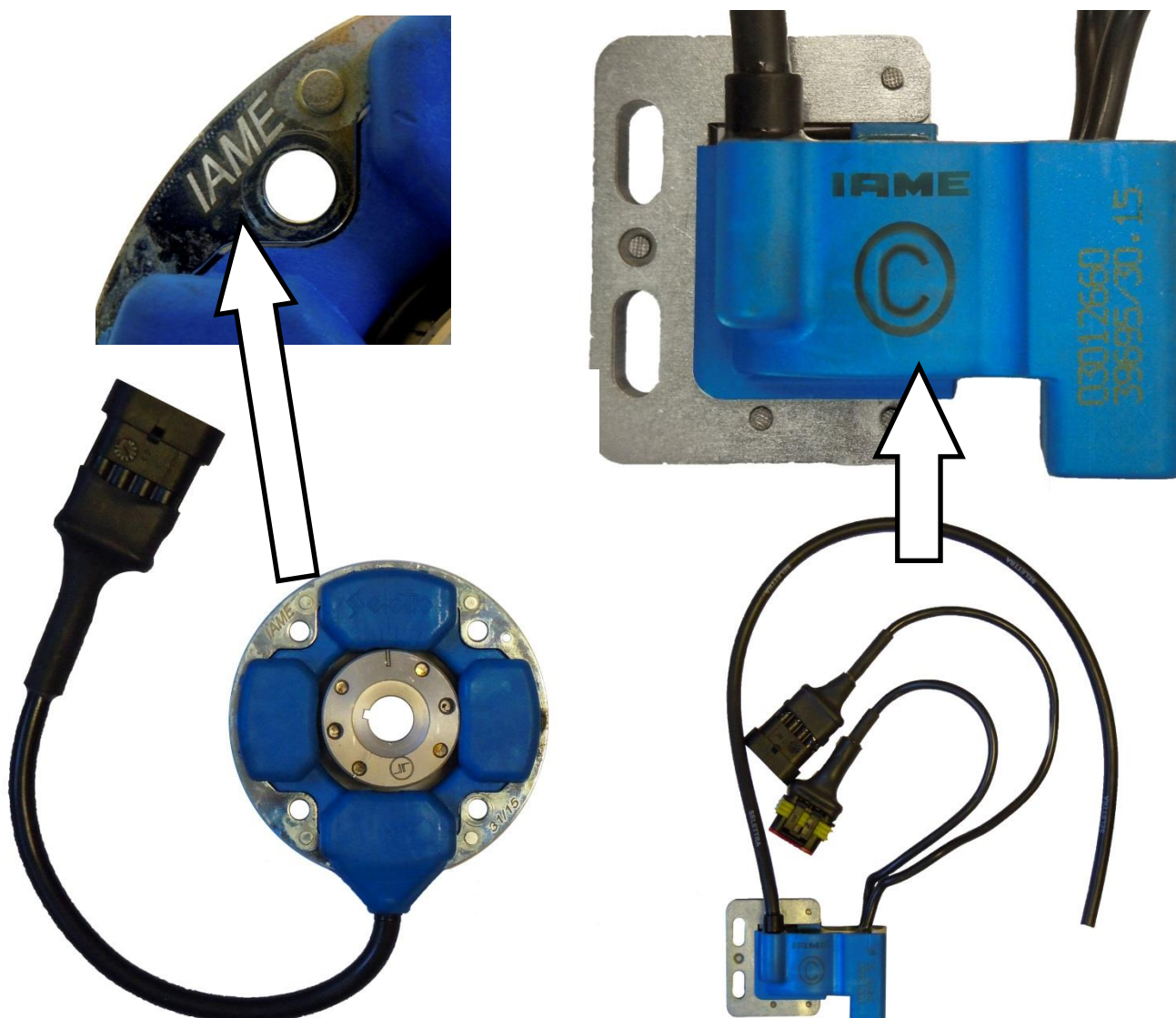


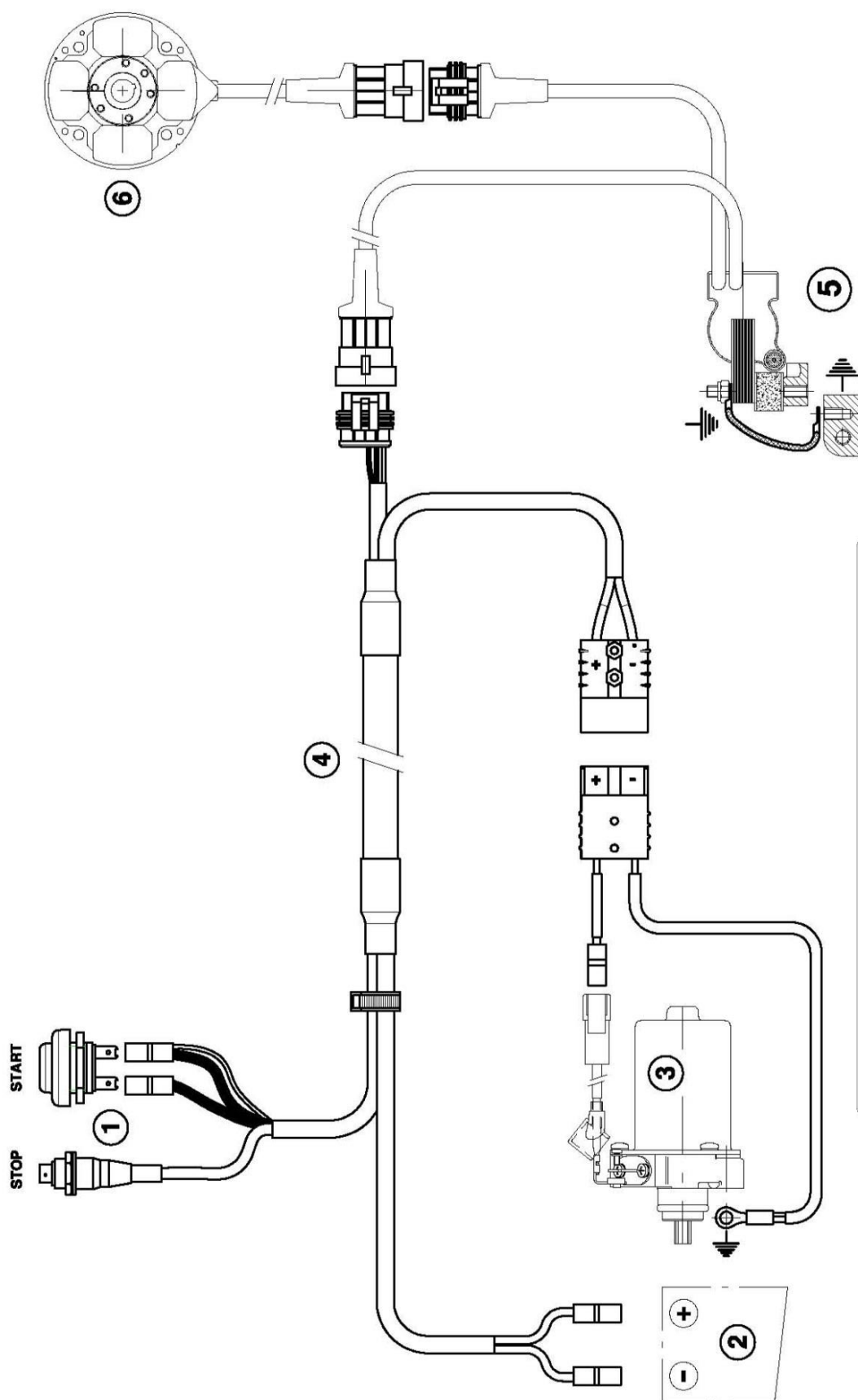
PHOTO COMPLETE ALTERNATIVE WIRING LOOM  
 PHOTO DU CABLAGE ELECTRONIQUE COMPLETE



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

ALTERNATIVE WIRING LOOM  
*CABLAGE ELECTRONIQUE COMPLET ALTERNATIVE*



ALTERNATIVE WIRING LOOM DIAGRAM  
*SCHEMA CIRCUIT ELECTRIQUE ALTERNATIVE*

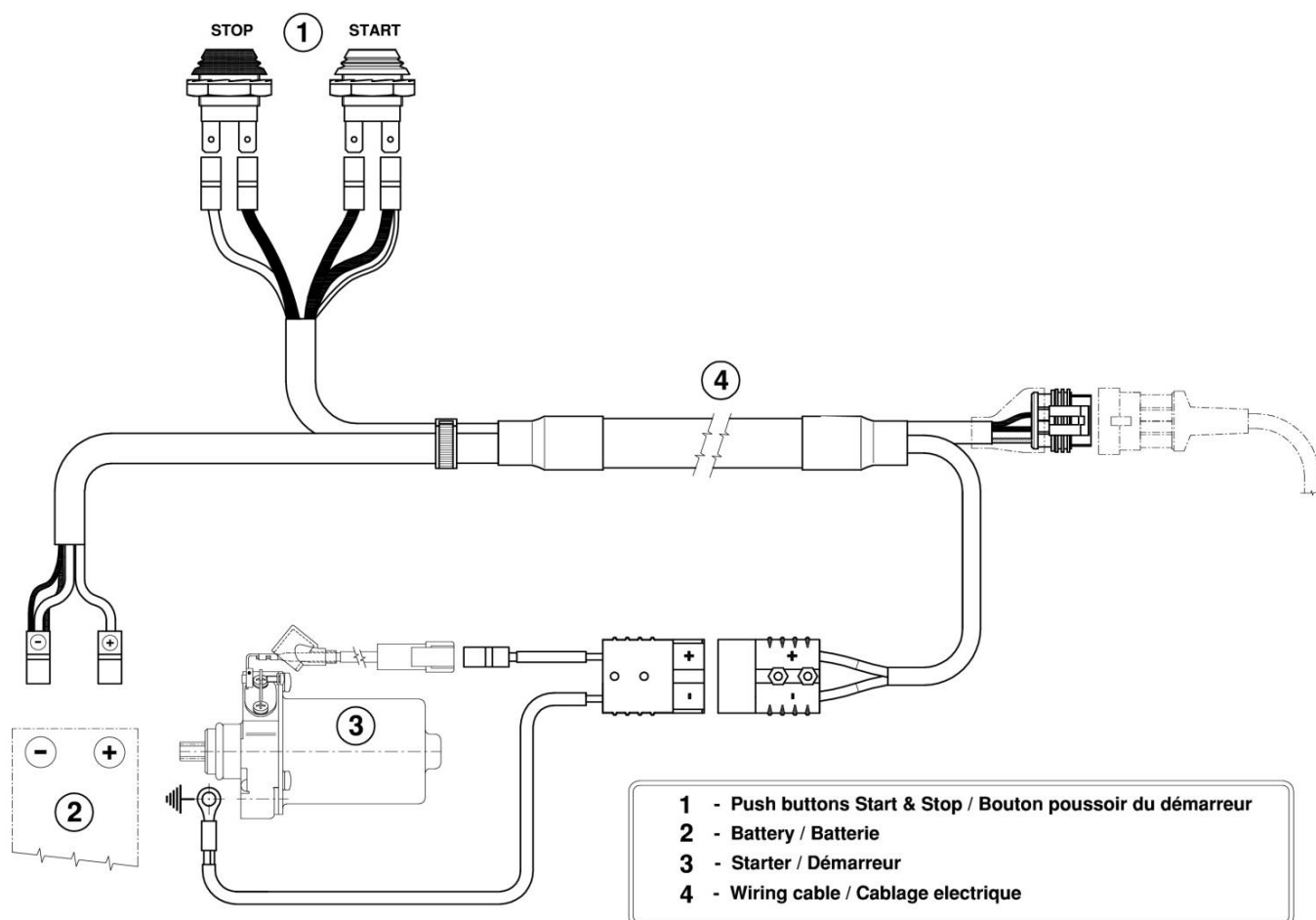
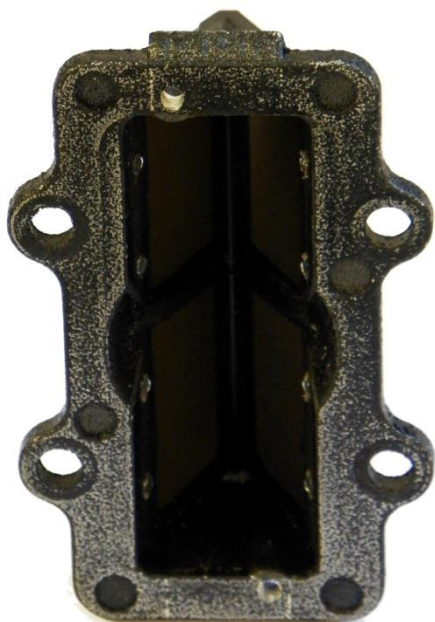
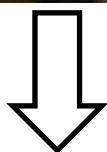


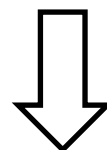


PHOTO IDENTIFICATION REED GROUP  
 PHOTO IDENTIFICATION PYRAMIDE DE CLAPETS

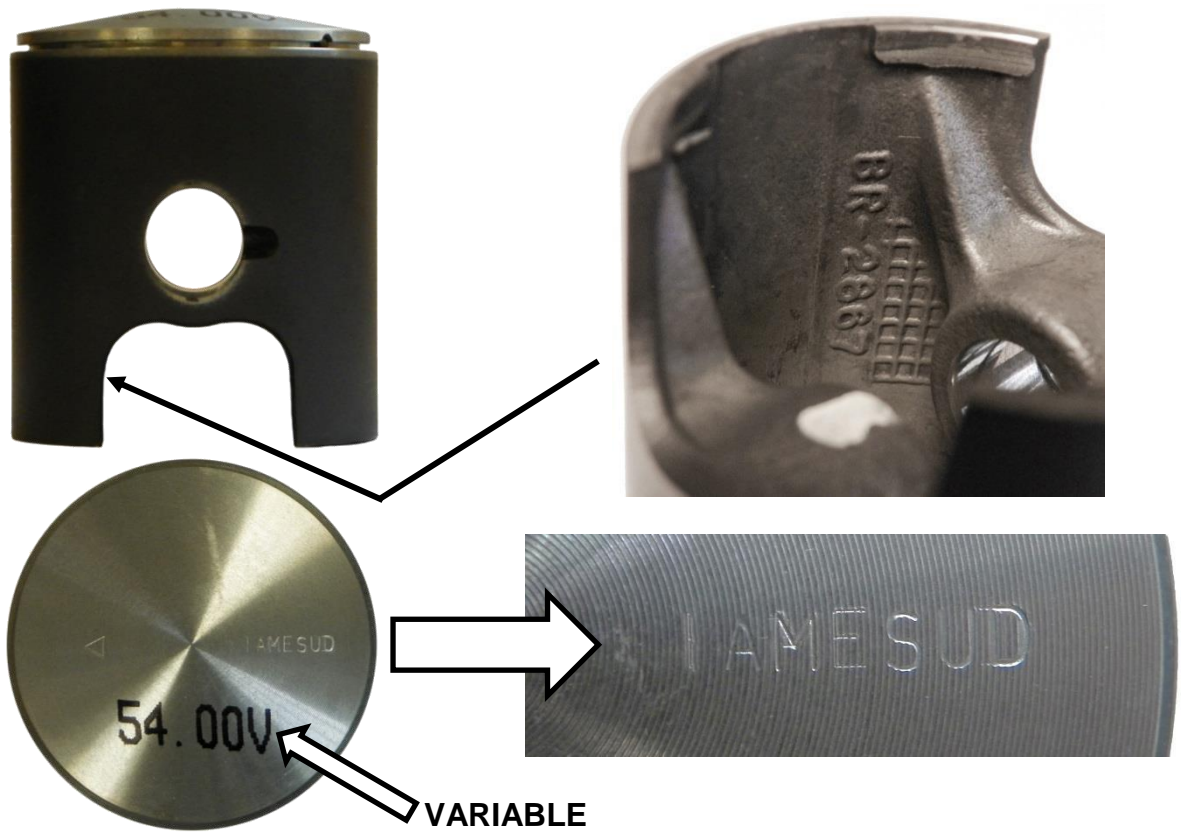
ACTUAL VERSION  
 COURANT VERSION



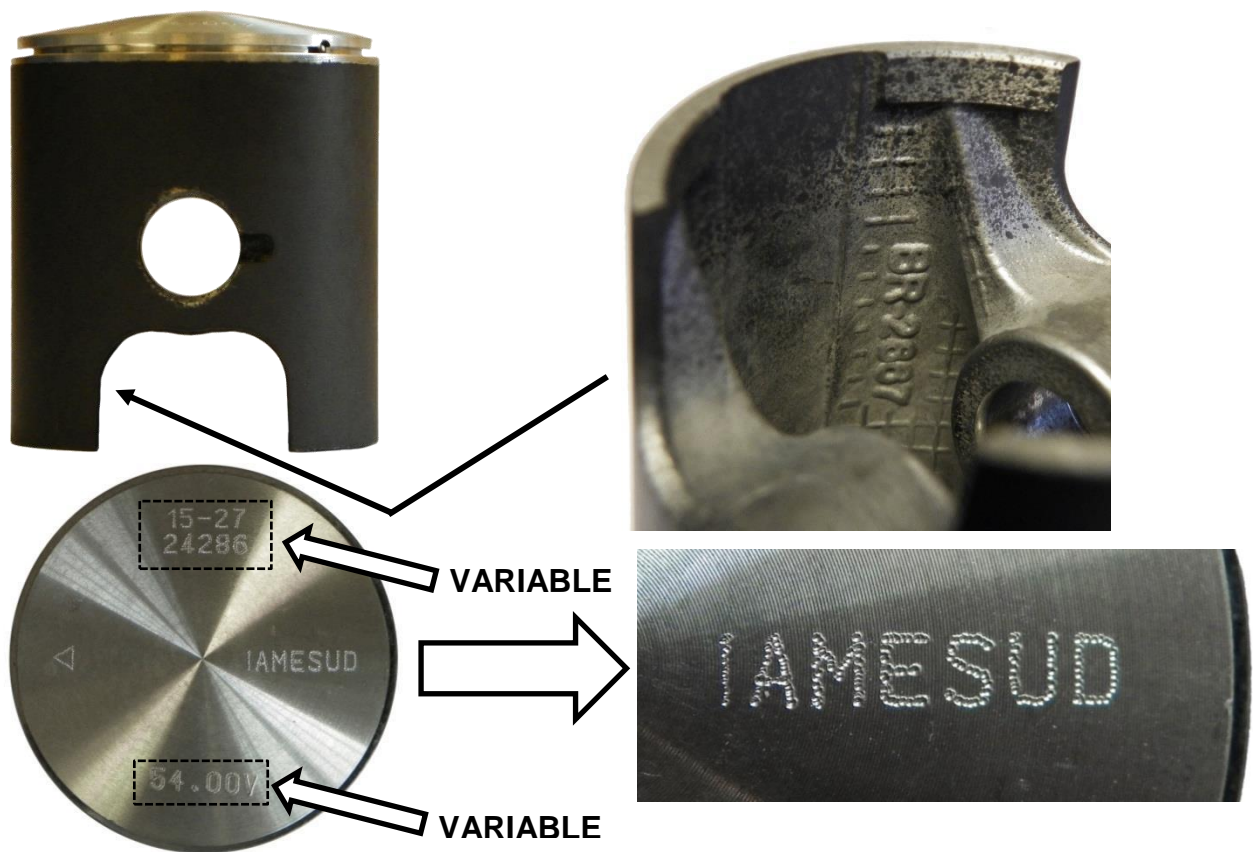
ALTERNATIVE VERSION  
 VERSION ALTERNATIVE



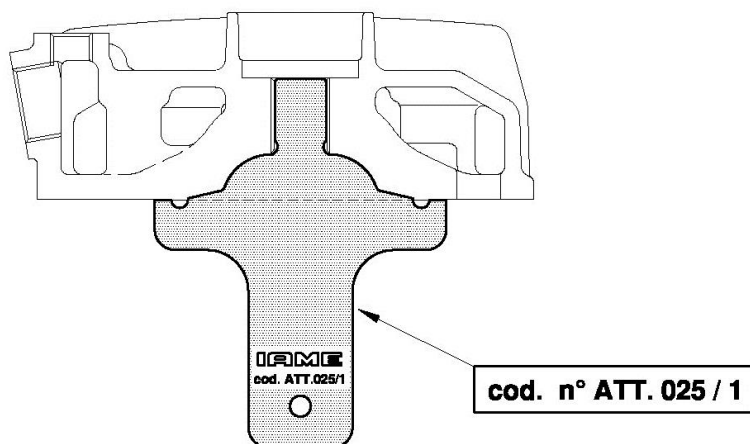
ACTUAL PISTON  
PISTON COURANT



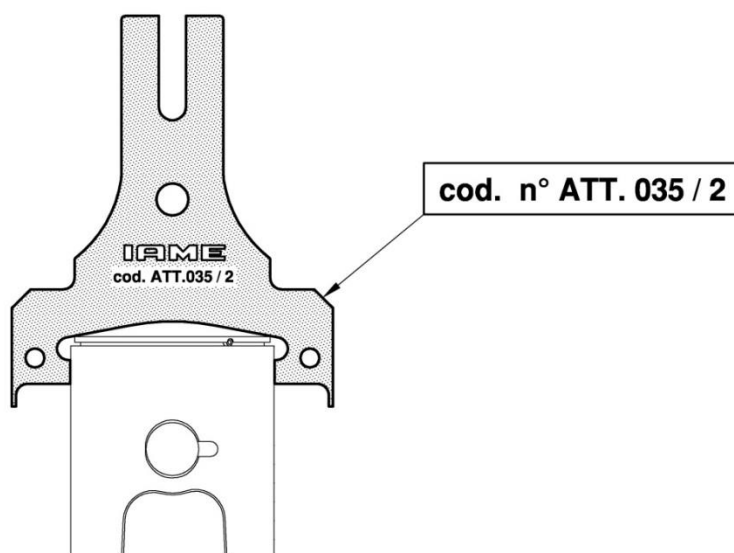
ALTERNATIVE PISTON  
PISTON ALTERNATIVE



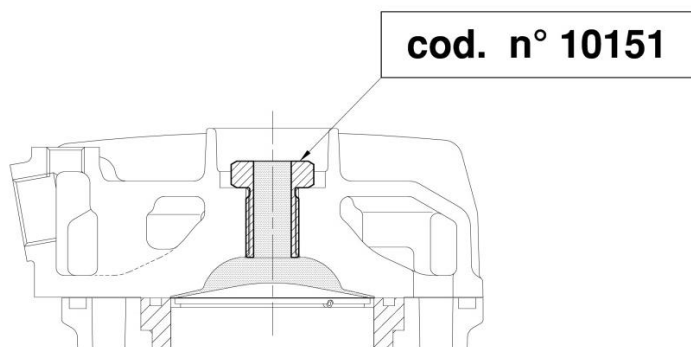
CHECKING THE SHAPE OF THE COMBUSTION CHAMBER  
CONTRÔLE DE LA FORME DE LA CHAMBRE DE COMBUSTION



CONTROL OF THE PISTON DOME  
CONTRÔLE DU DÔME DE PISTON

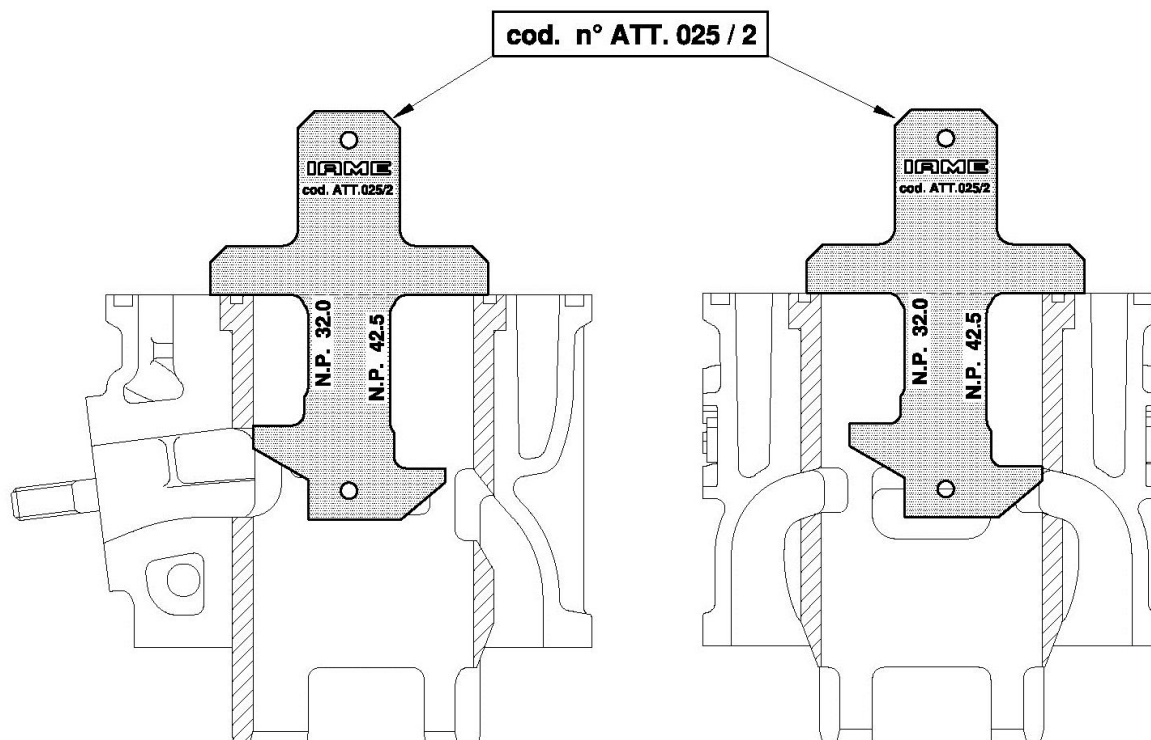


CONTROL OF THE VOLUME OF THE COMBUSTION CHAMBER  
CONTRÔLE DU VOLUME DE LA CHAMBRE DE COMBUSTION

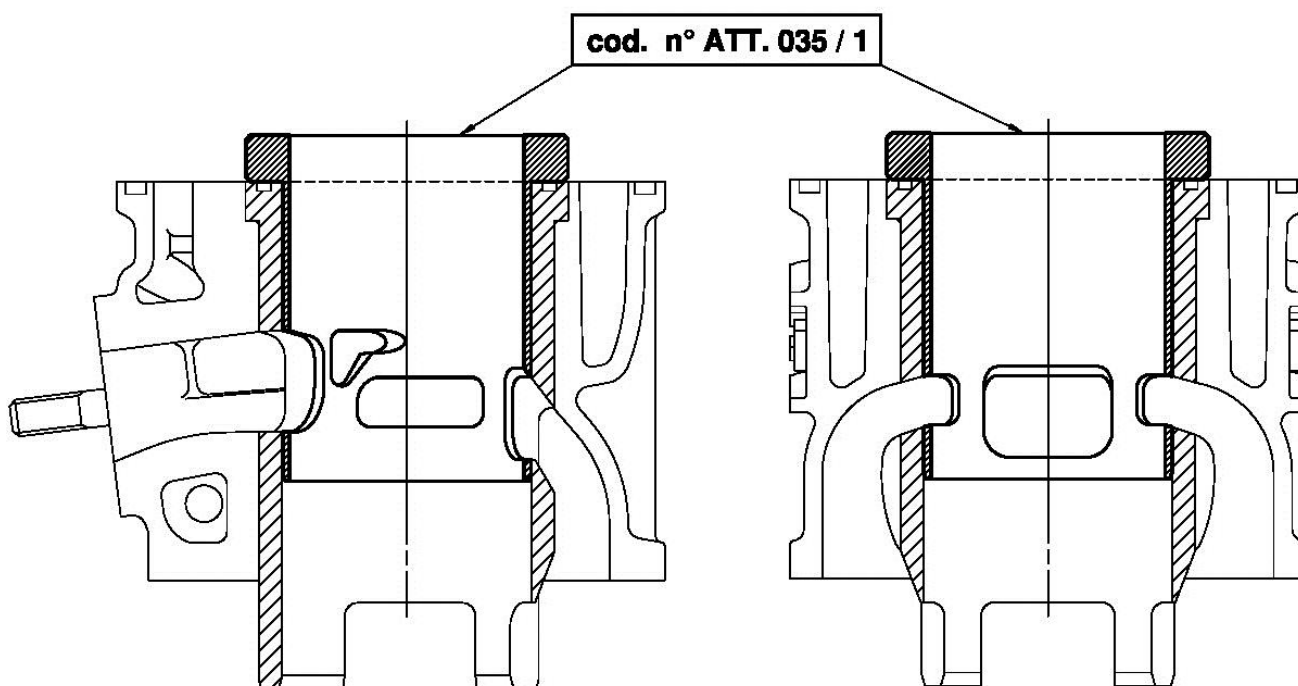


## **CYLINDER CHECK - CONTRÔLE DU CYLINDRE**

### **CHECK OF EXHAUST DUCT AND LATERAL TRANSFERS** **CONTRÔLE DE LA LUMIÈRE D'ÉCHAPPEMENT ET DES TRANSFERTS LATÉRAUX**

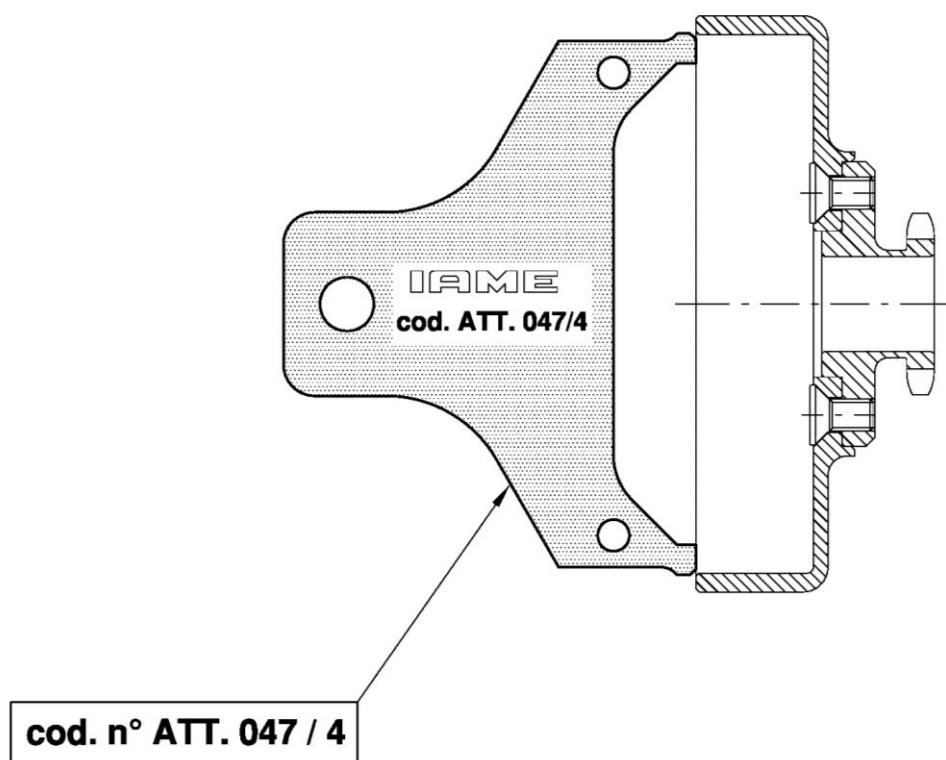


### **CYLINDER LINER DUCTS AND TRANSFERS CHECK TOOL** **OUTIL DE VÉRIFICATION DES LUMIÈRES DE LA CHEMISE DU CYLINDRE**



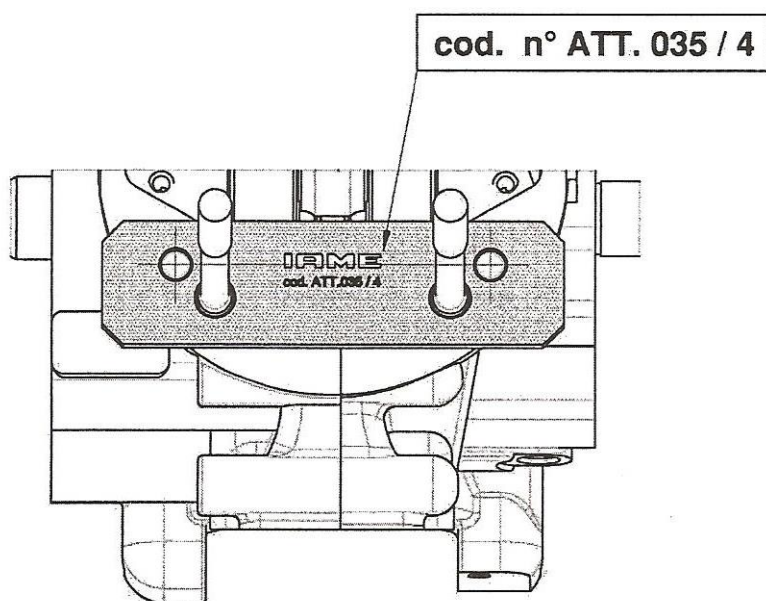


**CLUTCH DRUM CHECK TOOL**  
**CONTRÔLE DE LA CLOCHE D'EMBRAYAGE**

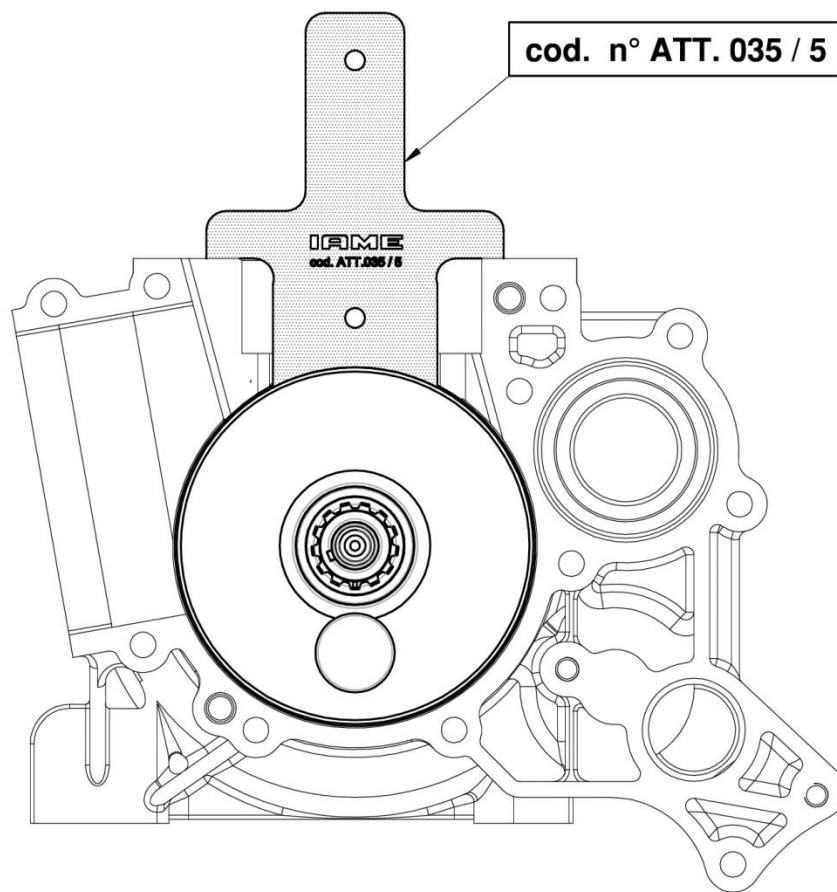


**CRANKCASE CHECK TOOLS - CONTRÔLE DU CARTER**

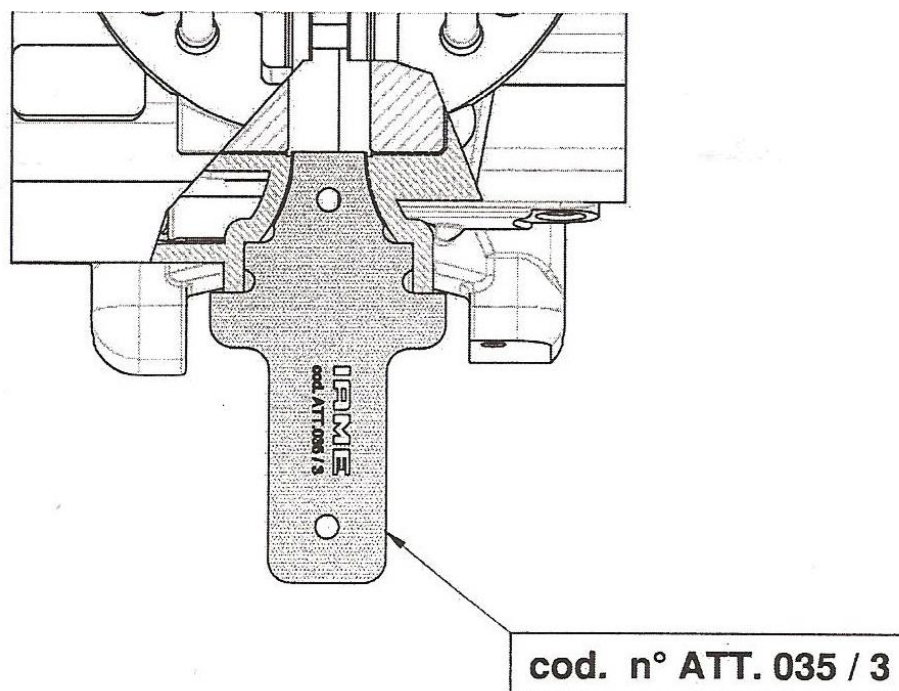
**CHECKING THE DISTANCE BETWEEN THE CILYNDER PINS**  
**CONTRÔLE DE L'ENTRAXE DES PINNULES D'INDEXATION DU CYLINDRE**



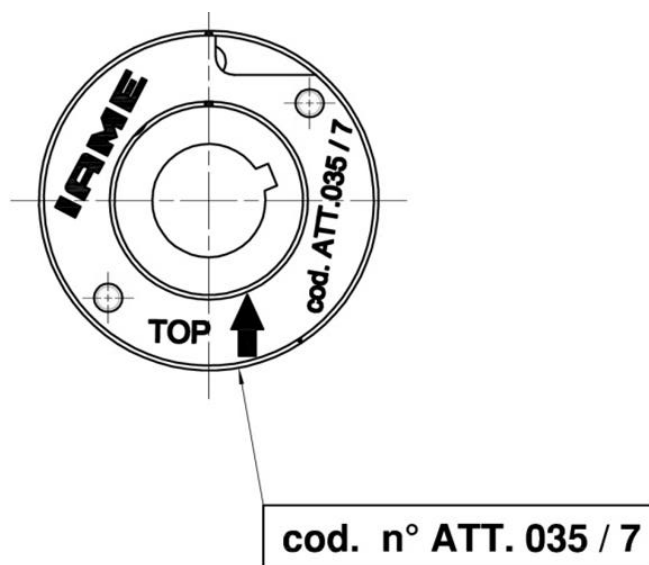
CONTROL OF THE HEIGHT OF THE JOINT PLANE  
CONTRÔLE DE LA HAUTEUR DU PLAN DE JOINT



CHECKING OF THE REEDS VALVE SEAL PLANE  
CONTRÔLE DU PLAN DE JOINT DE LOGEMENT DE BOÎTE À CLAPETS



CONTROL OF THE POSITION OF SELETTA DIGITAL "S" PHASE MARKING  
CONTROLE DU POSITION REGULA DU MARQUAGE DU PHASE SELETTA DIGITAL "S"



VENTURI SHAPE CONTROL OF TILLOTSON HW-27A CARBURETTOR  
CONTROLE DU VENTURI DU CARBURATEUR TILLOTSON HW-27A

