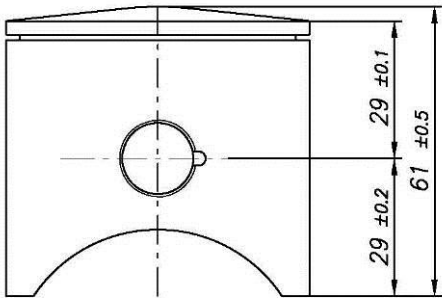
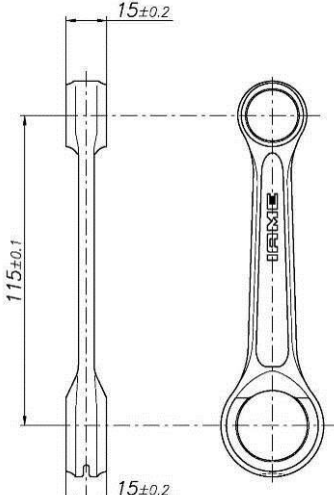


X30 SUPER SHIFTER 17SCC TAG (TILLOTSON EQUIPPED)



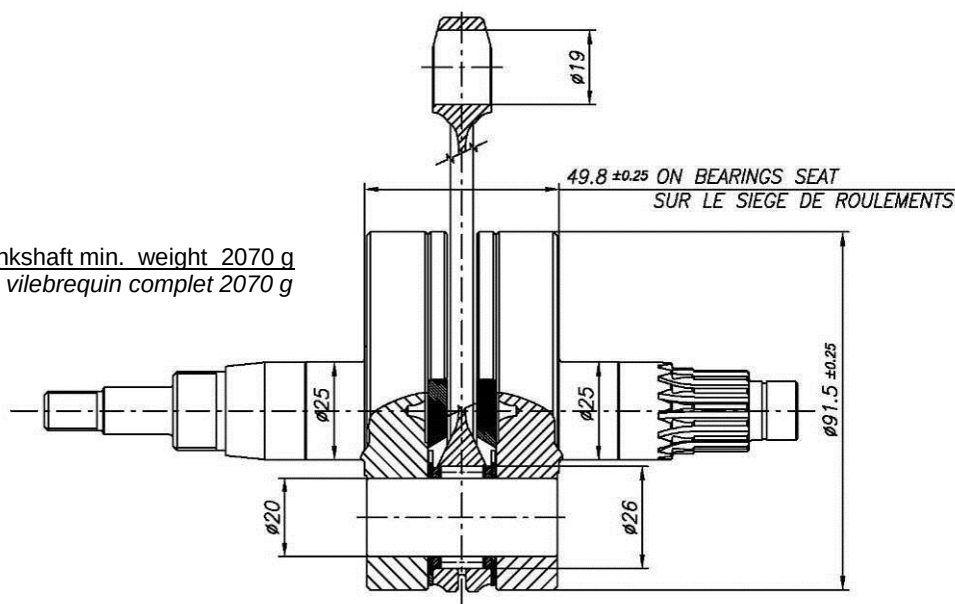
FEATURES - CARACTERISTIQUES

		Cylinder volume <i>Volume du cylindre</i>	174.46 cm ³ (Max 176.6 cm³)
		Bore <i>Alésage</i>	63.90 mm
		Max. theoretical bore <i>Alésage théorique max.</i>	64.26 mm
		Stroke <i>Course</i>	54.40 mm
		Distance between conrod centers <i>Longueur (entre axe) de la bielle</i>	115 mm
Carburettor Tillotson <i>Carburateur Tillotson</i>	HB-15A (Ø34mm)	Cooling system <i>Système de refroidissement</i>	Water <i>Eau</i>
Number of piston rings <i>Nombre de segments</i>	1	Inlet system <i>Système d'admission</i>	Reed valve <i>À clapets</i>
Big end conr. bearing diam. <i>Diamètre palier tête de bielle</i>	20x26x15	Cylinder / crankcase transfers n° <i>N° de canaux cylindre / carter</i>	5 / 3
Crankshaft bearing diam. <i>Diamètre palier du vilebrequin</i>	25x52x15 (2Pc.) 15x35x11 (1Pc.)	Inlet / exhaust ports number <i>N° lumières admiss. / échapp.</i>	5 / 3
Small end conr. bearing diam. <i>Diamètre palier pied de bielle</i>	15x19x20	Combustion chamber shape <i>Forme chambre de combustion</i>	Spherical <i>Sphérique</i>
Electric starter <i>Démarrreur électrique</i>	Yes <i>Oui</i>	Ignition Selettra / PVL <i>Allumage Selettra / PVL</i>	Digital "K" Digital "S" / Digital 690

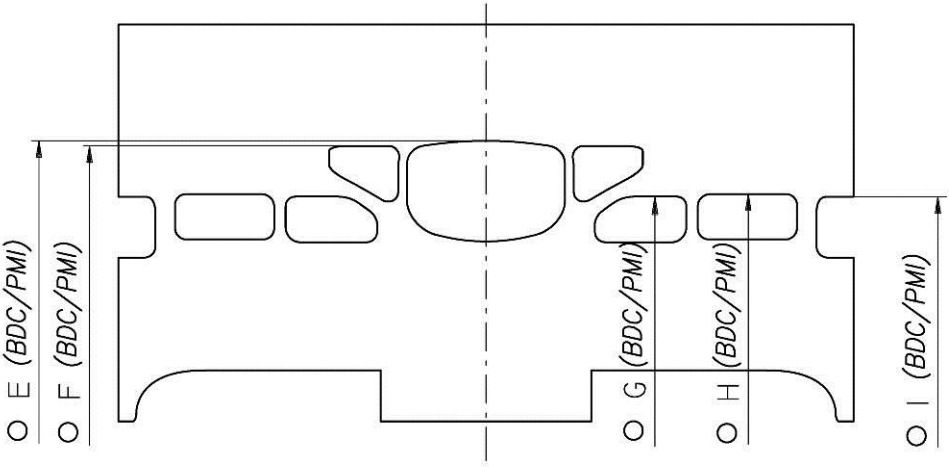
DESCRIPTION OF THE MATERIAL DESCRIPTION DES MATERIAUX		PISTON
Conrod material <i>Matériel de la bielle</i>	Steel <i>Acier</i>	 Piston min. weight (ring incl.) 155 g <i>Poids min. piston (avec segment) 155 g</i>
Crankshaft material <i>Matériel du vilebrequin</i>	Steel <i>Acier</i>	
Gearbox shafts material <i>Matériel de l'arbres de boîte de vitesses</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 / Acier or / ou Aluminium	
Head material <i>Matériel de la culasse</i>	Aluminium	DISTANCE BETWEEN CONROD CENTERS <i>ENTRE AXE DE LA BIELLE</i>
Cylinder material <i>Matériel du cylindre</i>	Aluminium	 Min. Weight 112 g <i>Poids min. 112 g</i>
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>	

CRANKSHAFT – VILEBREQUIN

Complete crankshaft min. weight 2070 g
Poids min. du vilebrequin complet 2070 g



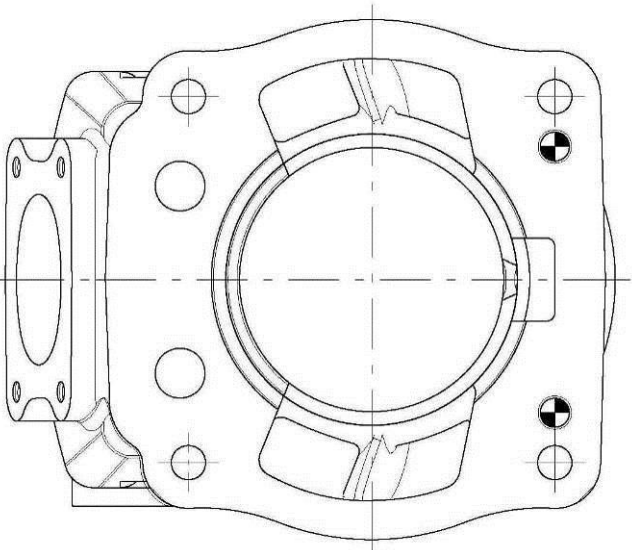
CYLINDER DEVELOPMENT - DEVELOPPEMENT DU CYLINDRE



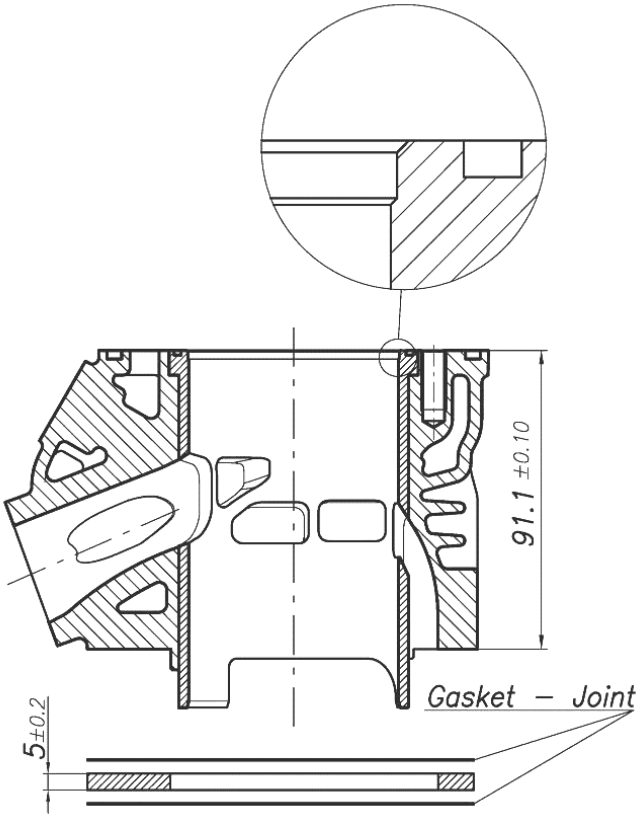
E	$195^\circ \pm 2^\circ$
F	$189^\circ \pm 2^\circ$
G	$122.5^\circ \pm 2^\circ$
H	$125.5^\circ \pm 2^\circ$
I	$121^\circ \pm 3^\circ$

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

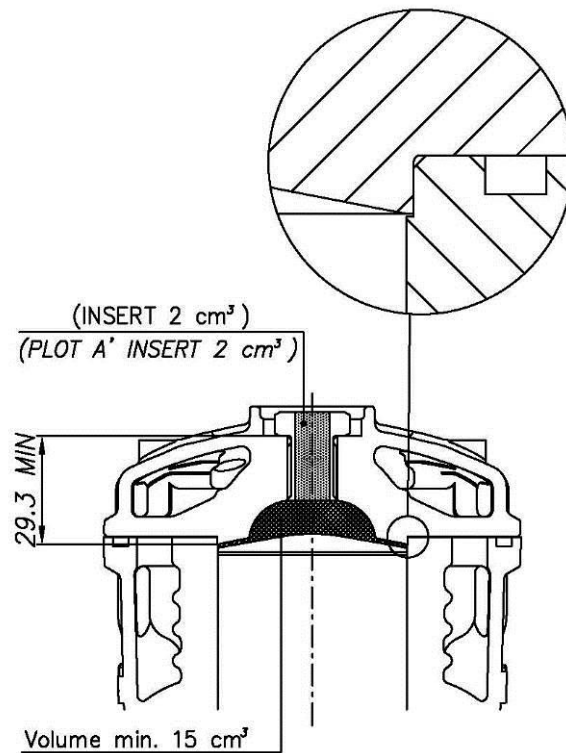
CYLINDER BASE VIEW
VUE DE LA BASE DU CYLINDRE



CYLINDER CROSS SECTION VIEW
VUE EN SECTION DU CYLINDRE



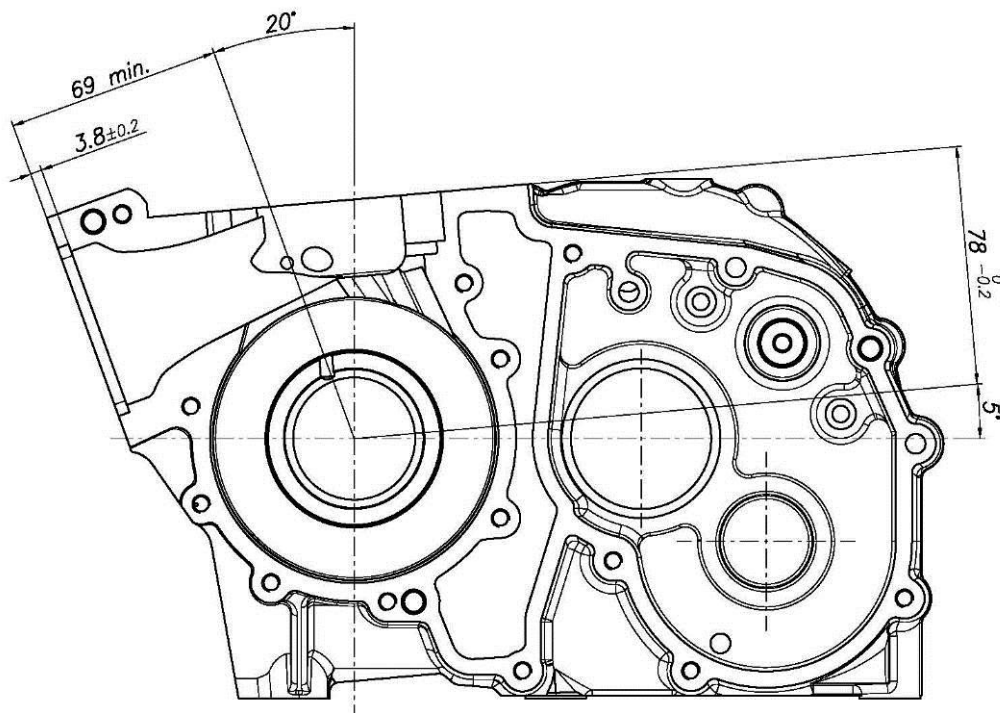
COMBUSTION CHAMBER VIEW
VUE DE LA CHAMBRE DE COMPRESSION



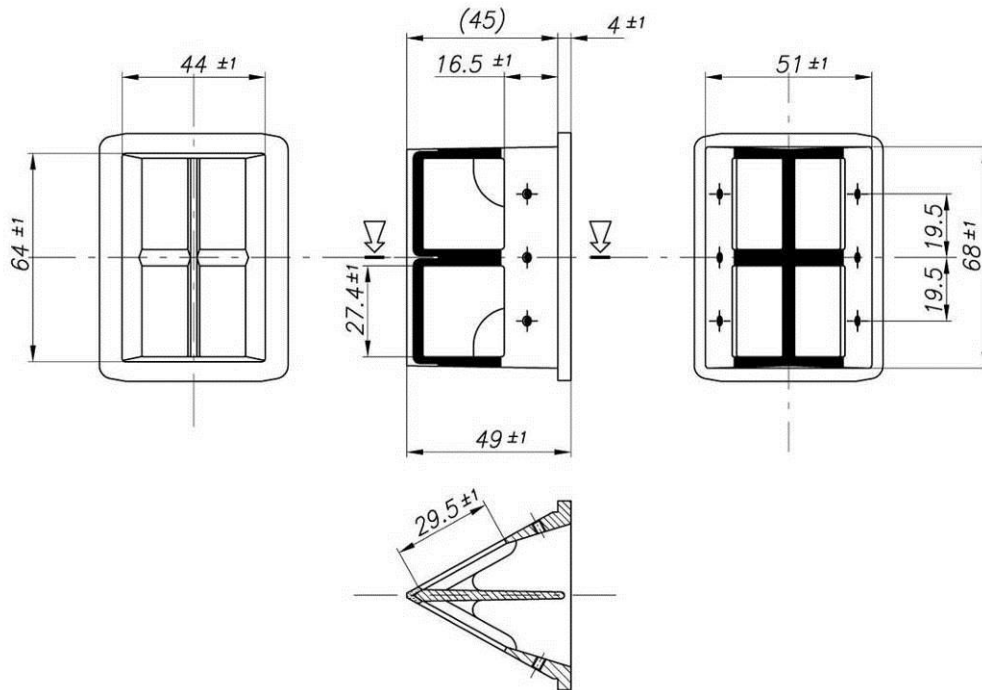
COMBUSTION CHAMBER VOLUME TOT. = 17 cm³ min.
VOLUME CHAMBRE COMBUSTION TOT. = 17 cm³ min.

SQUISH MIN. = 1 mm
(measured with Ø1.5mm TIN - mesurée avec de l'étain Ø1.5mm)

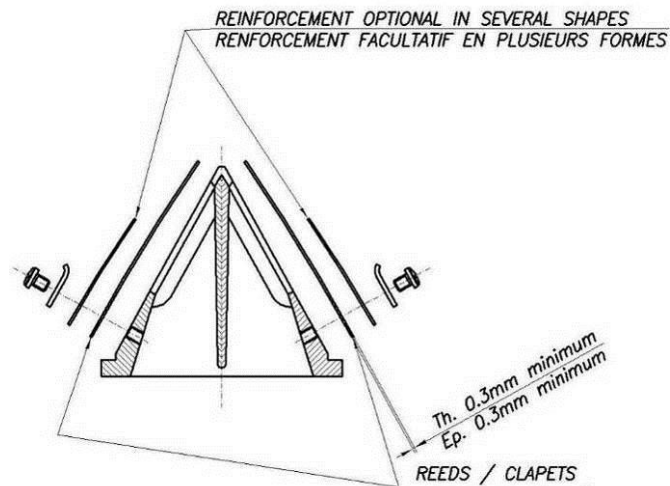
CRANKCASE INSIDE VIEW
VUE A' L' INTERIEUR DU CARTER



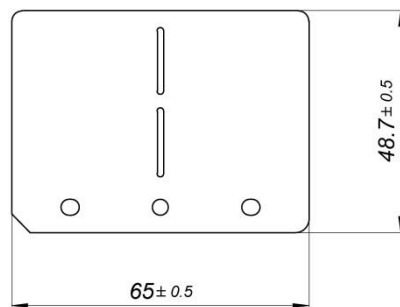
REED VALVE BOÎTE À CLAPETS



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



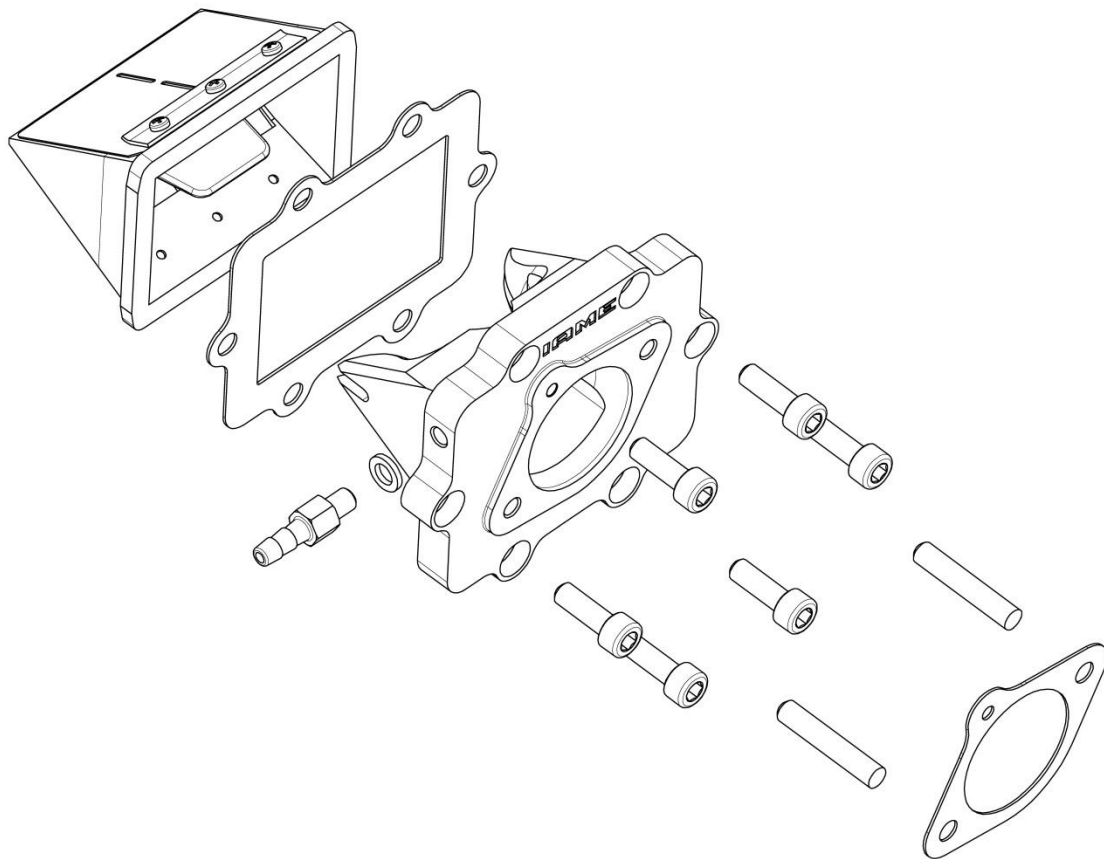
REEDS / CLAPETS



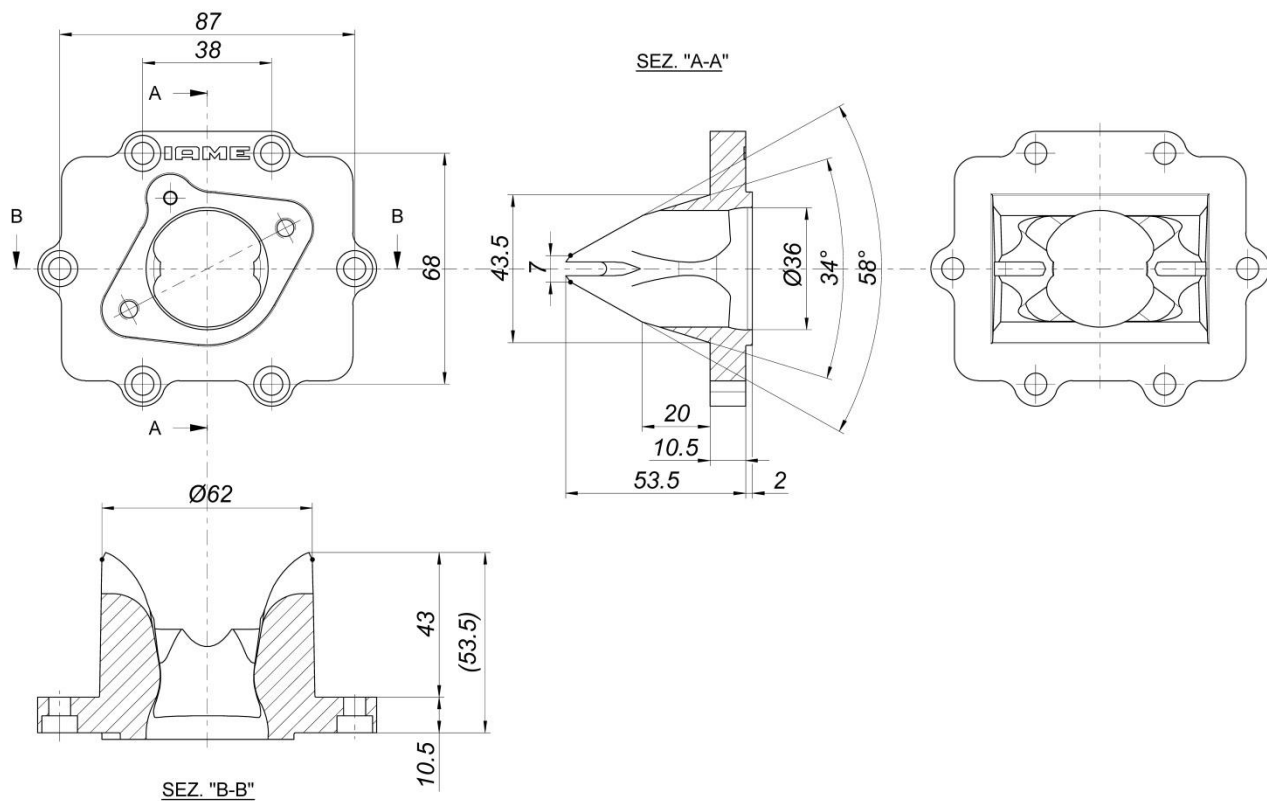
N.B.: ONLY REED "IAME" GENUINE CARBON FIBER ARE PERMITTED.

N.B. : SEULS LES CLAPETS D'ORIGINE "IAME" EN FIBRE DE CARBONE SONT AUTORISES.

EXPLODED DRAWING - INLET SYSTEM
VUE ESPLOSE – SYSTEME D'ADMISSION



REED VALVE COVER - INLET SYSTEM
COUVERCLE DE LA BOÎTE A CLAPETS

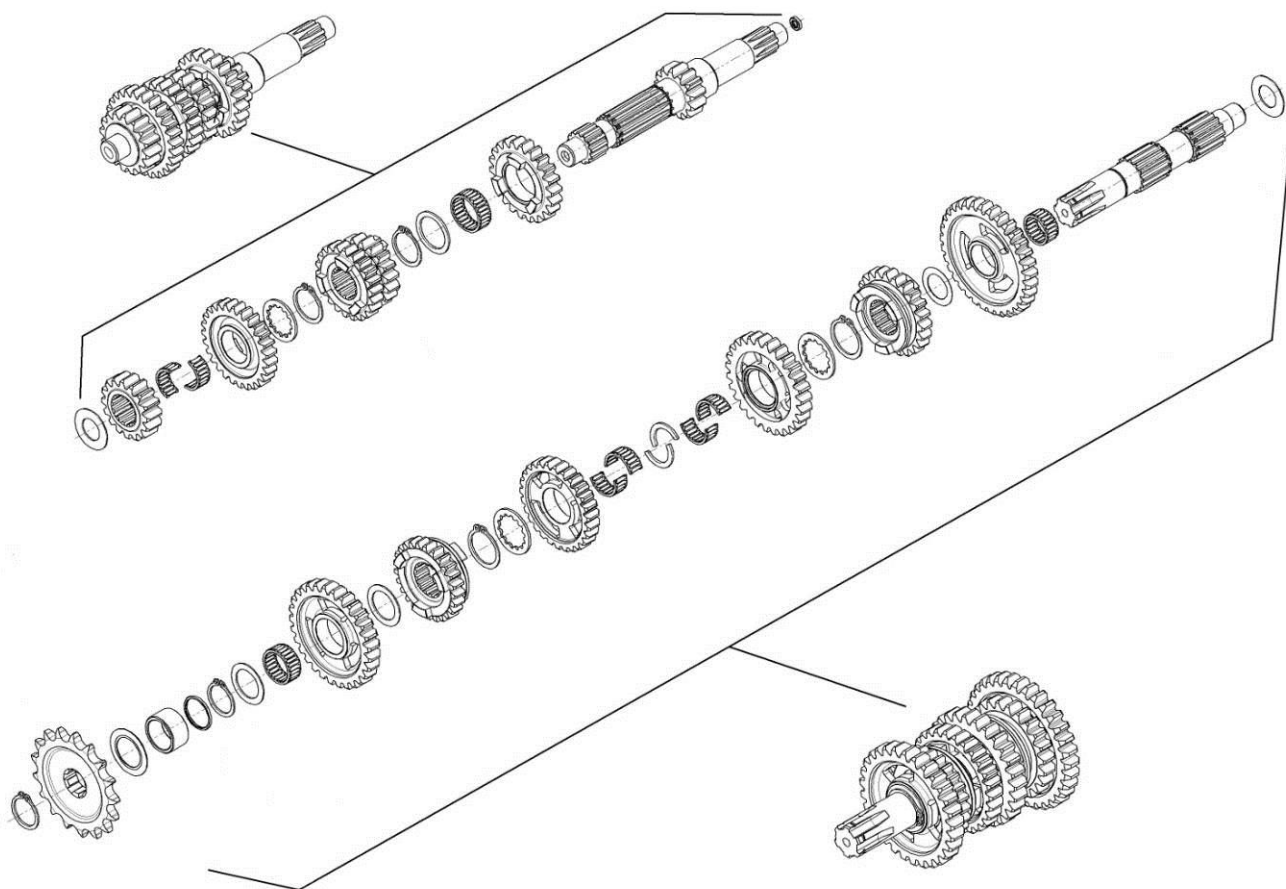


GEARBOX - BOÎTE DE VITESSES

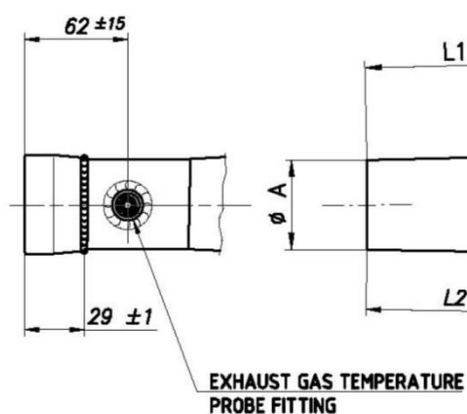
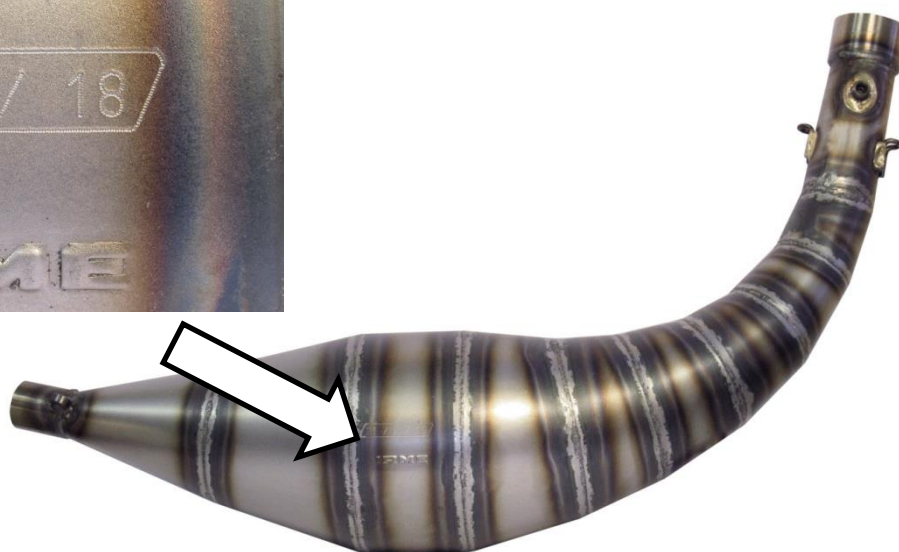
Primary coupling - Couple primaire **19 / 75**

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
1 st / 1 ^{ère}	<u>13</u>	<u>33</u>	<u>107.78°</u>
2 nd / 2 ^e	<u>16</u>	<u>29</u>	<u>150.95°</u>
3 rd / 3 ^e	<u>18</u>	<u>27</u>	<u>182.40°</u>
4 th / 4 ^e	<u>22</u>	<u>27</u>	<u>222.93°</u>
5 th / 5 ^e	<u>22</u>	<u>23</u>	<u>261.70°</u>
6 th / 6 ^e	<u>27</u>	<u>25</u>	<u>295.49°</u>

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



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

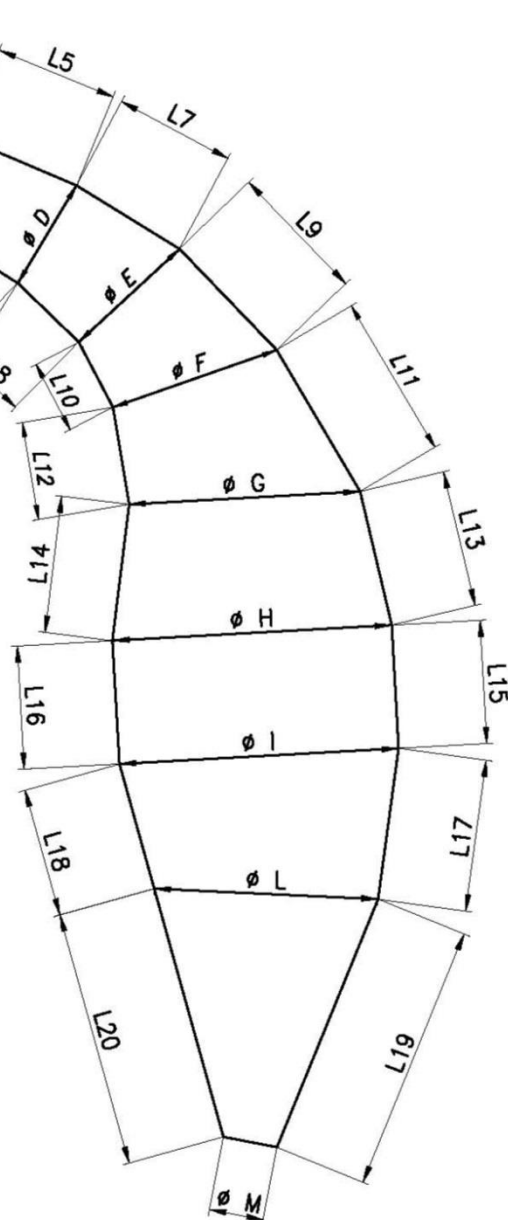


Part Partie	D. MIN.	D. MAX	L. MIN.	L. MAX.
1	ØA 42.6	ØB 48	L2 95	L1 103
2	ØB 48	ØC 53	L4 44	L3 56
3	ØC 53	ØD 65.3	L6 45	L5 60
4	ØD 65.3	ØE 79	L8 41.5	L7 60
5	ØE 79	ØF 95	L10 42	L9 60
6	ØF 95	ØG 112	L12 39	L11 53
7	ØG 112	ØH 137	L14 51	L13 74
8	ØH 137	ØI 137	L16 65	L15 65
9	ØL 88.6	ØI 137	L18 84	L17 101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

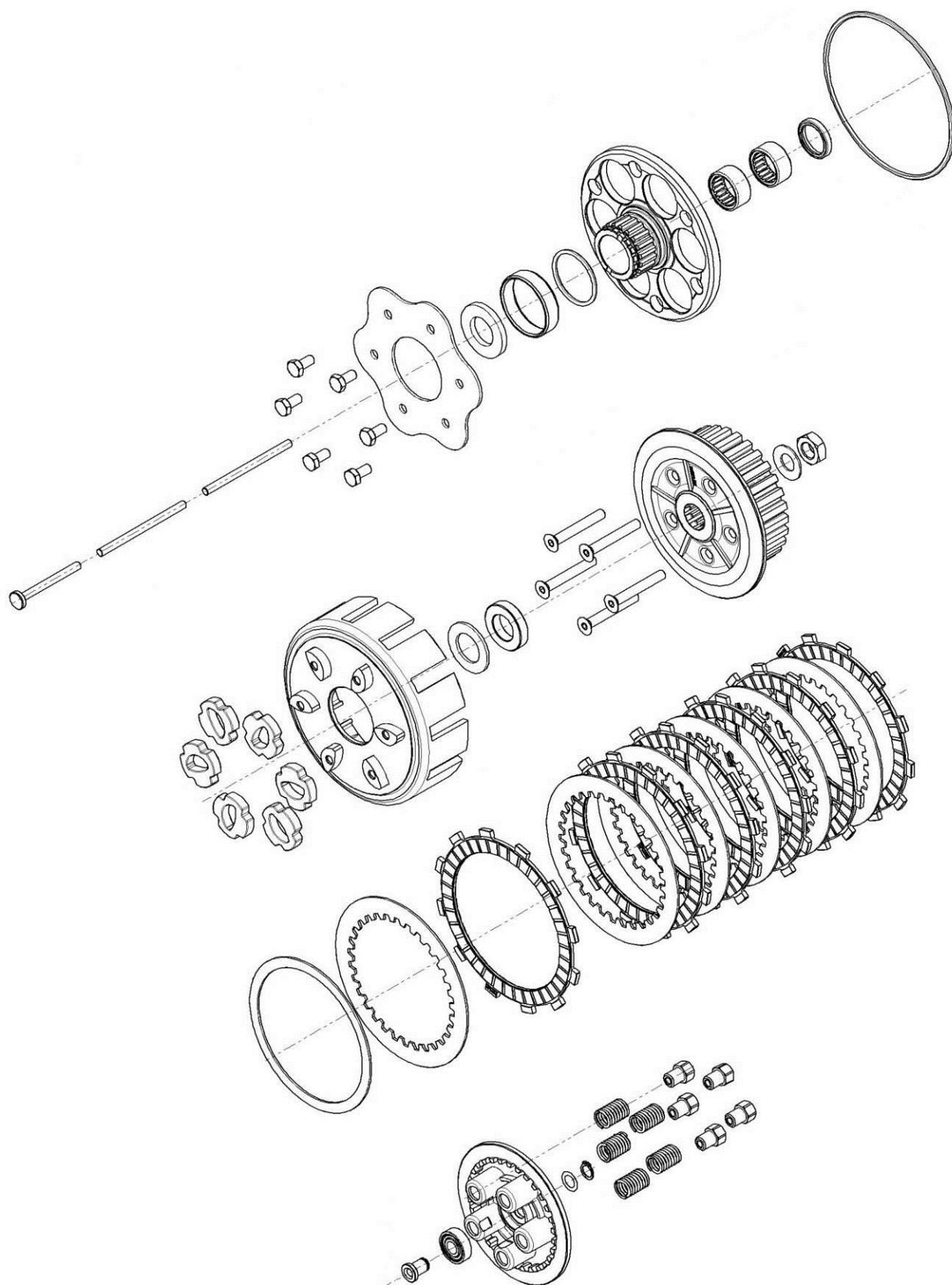
Min. weight 1.09 Kg
Poids min. 1.09 Kg

Thickness 0.8 mm ±0.08
Épaisseur 0.8 mm ±0.08

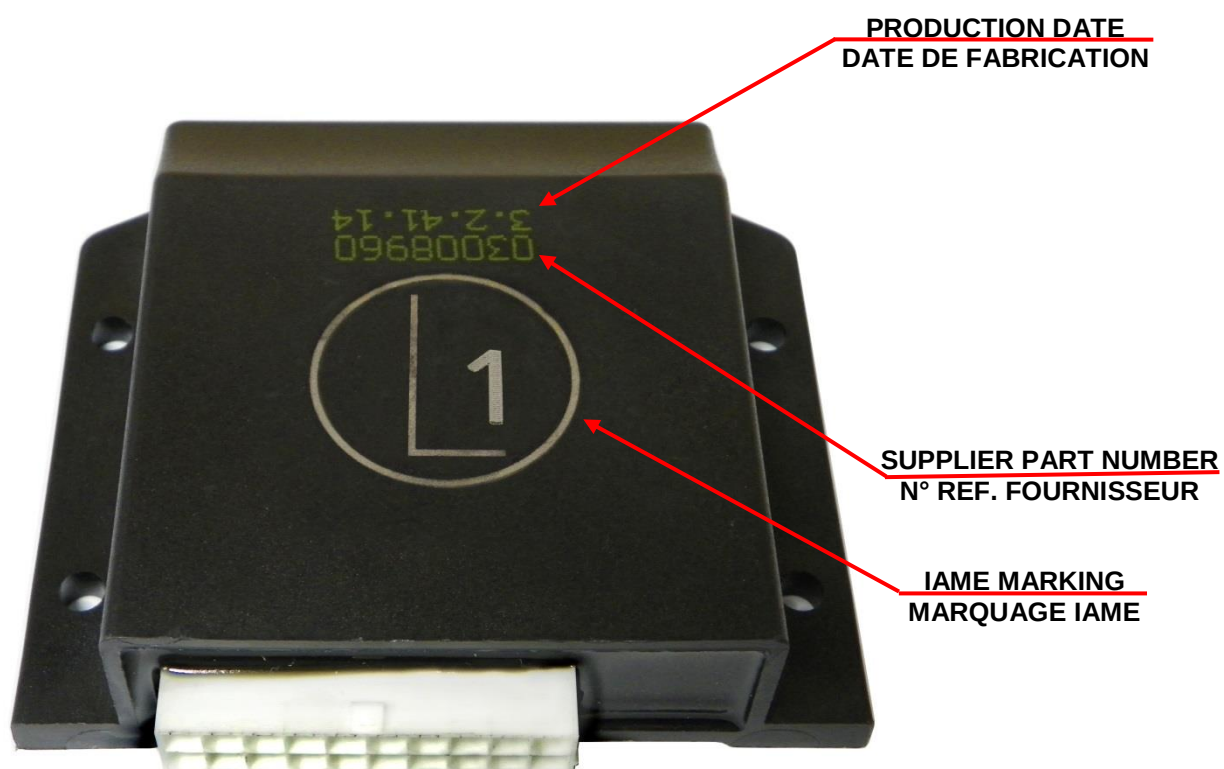
Volume= 4120 cm³ ±5%



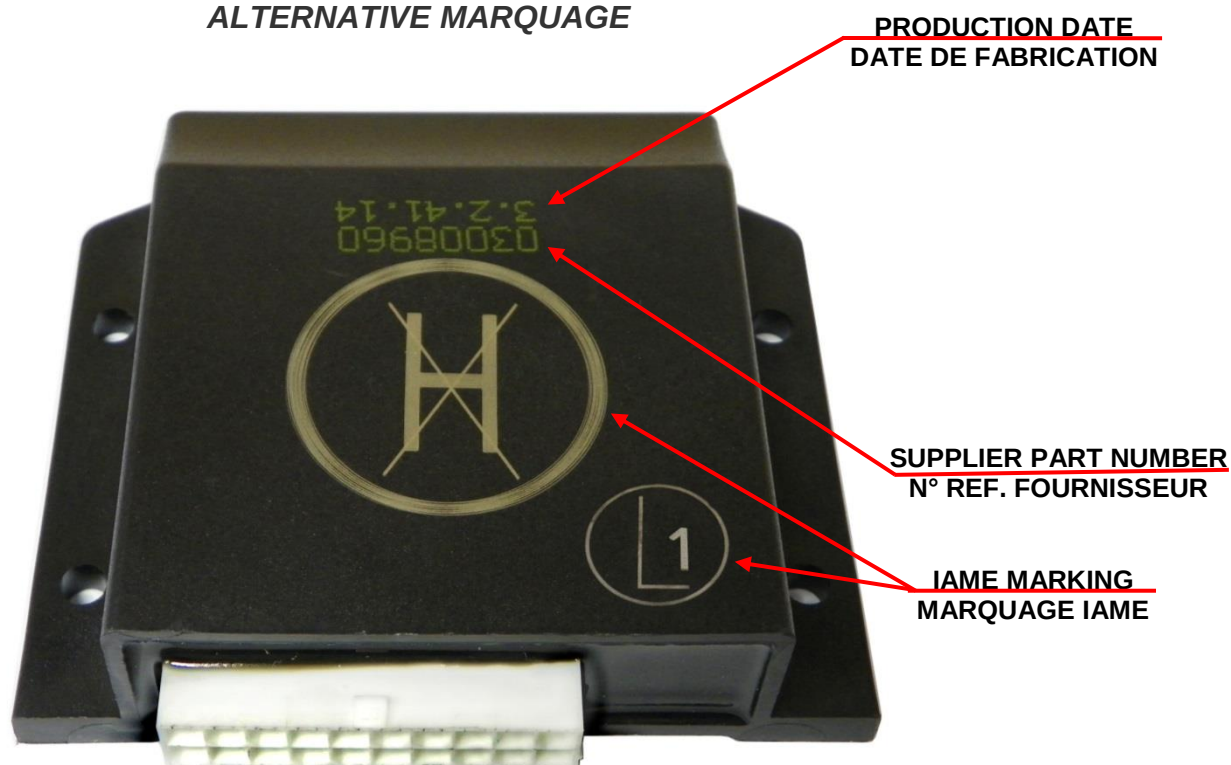
EXPLODED DRAWING OF THE CLUTCH ASSEMBLY
DESSIN EXPLOSE DE L'EMBRAYAGE COMPLETE



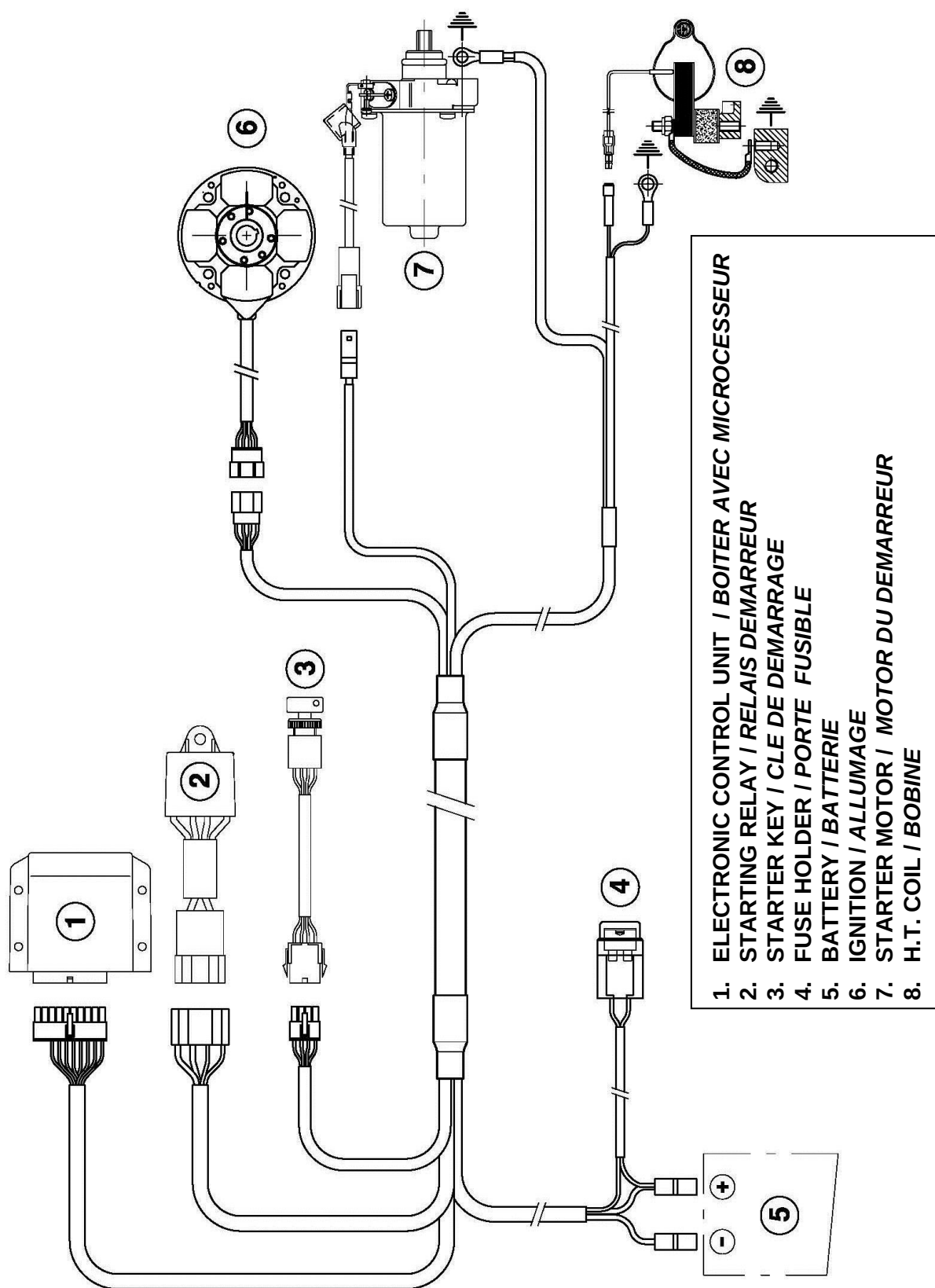
SELETTRA - ELECTRONIC BOX MARKING
SELETTRA - MARQUAGE DU BOITIER ELECTRONIQUE



ALTERNATIVE MARKING
ALTERNATIVE MARQUAGE



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



SELECTOR COVER IDENTIFICATION
 IDENTIFICATION DU COUVERCLE SELECTEUR

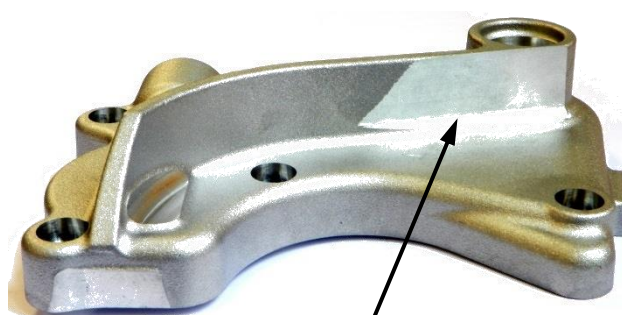
Old version
 Vieille version



New version
 Nouvelle version

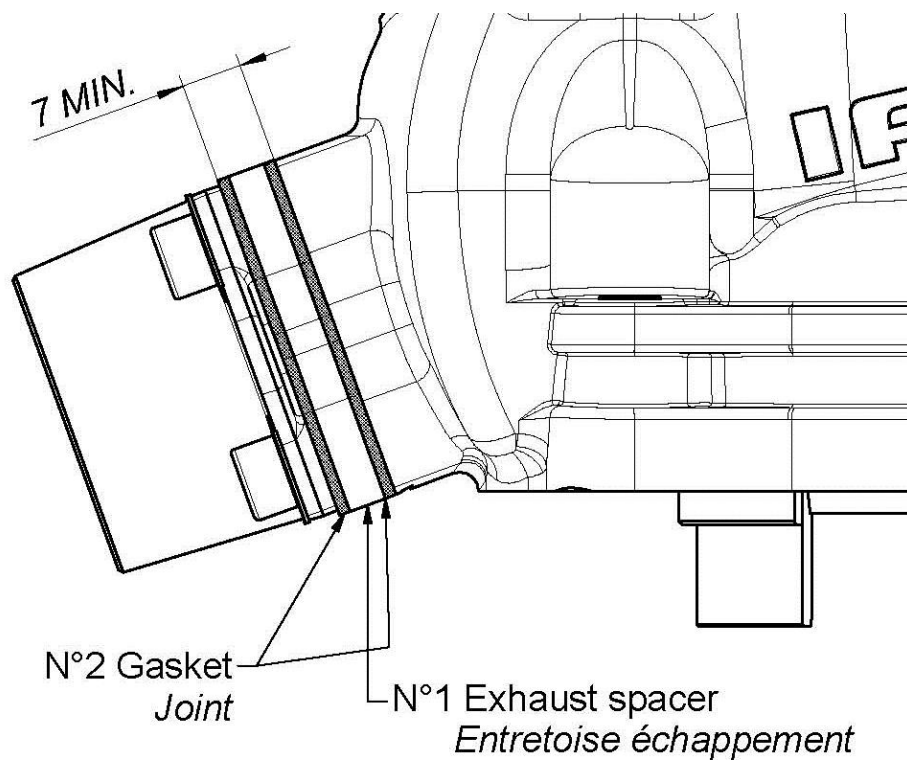


ADDITIONAL CNC Machined
 SUPPLÉMENTAIRES Usiné CNC

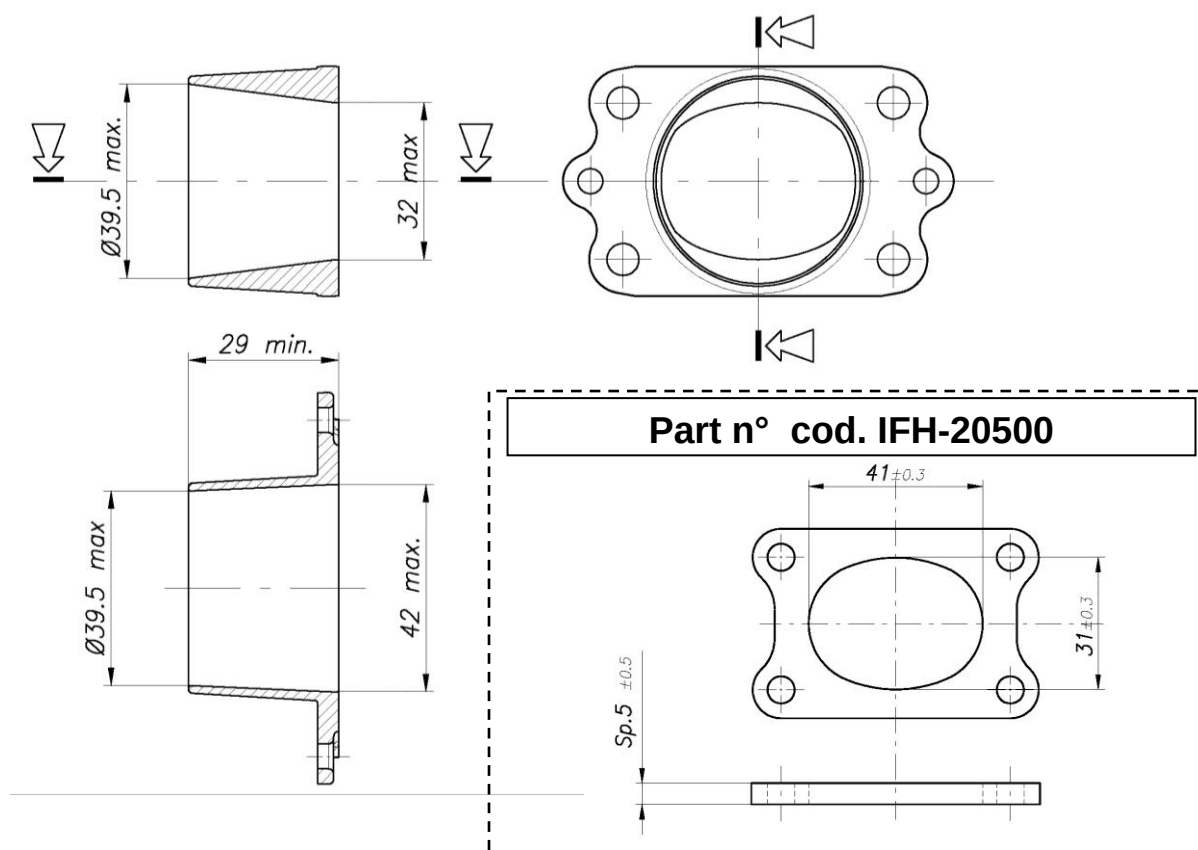


ADDITIONAL CNC Machined
 SUPPLÉMENTAIRES Usiné CNC

MINIMUM DISTANCE BETWEEN EXHAUST MANIFOLD AND CYLINDER
 DISTANCE MINIMALE ENTRE RACCORD D'ÉCHAPPEMENT ET CYLINDRE

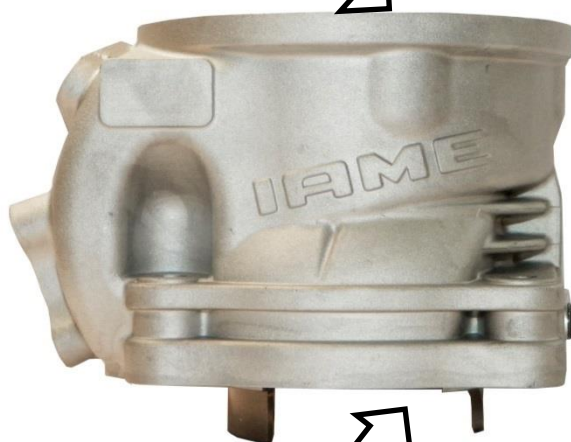


EXHAUST MANIFOLD AND SPACER VIEW AND DIMENSIONS
 VUE ET DIMENSIONS DU RACCORD D'ÉCHAPPEMENT ET ESPACEUR



NEW 5th PORT – ADMISSION IDENTIFICATION
 IDENTIFICATION DU NOUVEAU 5^e LUMIERE

VIEW FROM “A”
VEU DEPUIS “A”



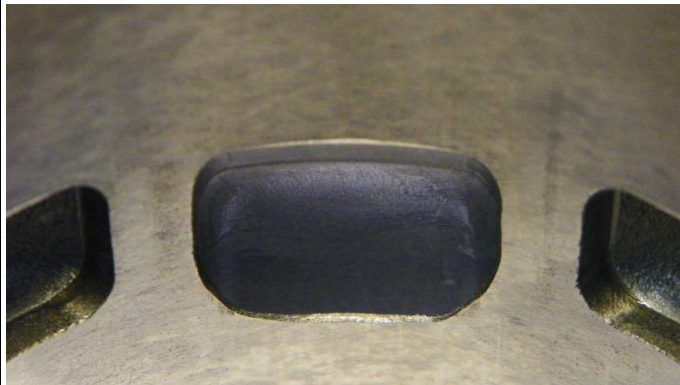
VIEW FROM “B”
VEU DEPUIS “B”

OLD VERSION
VIEILLE VERSION

NEW VERSION
NOUVELLE VERSION

VIEW FROM “A” - VEU DEPUIS “A”

VIEW FROM “A” - VEU DEPUIS “A”



VIEW FROM “B” - VEU DEPUIS “B”

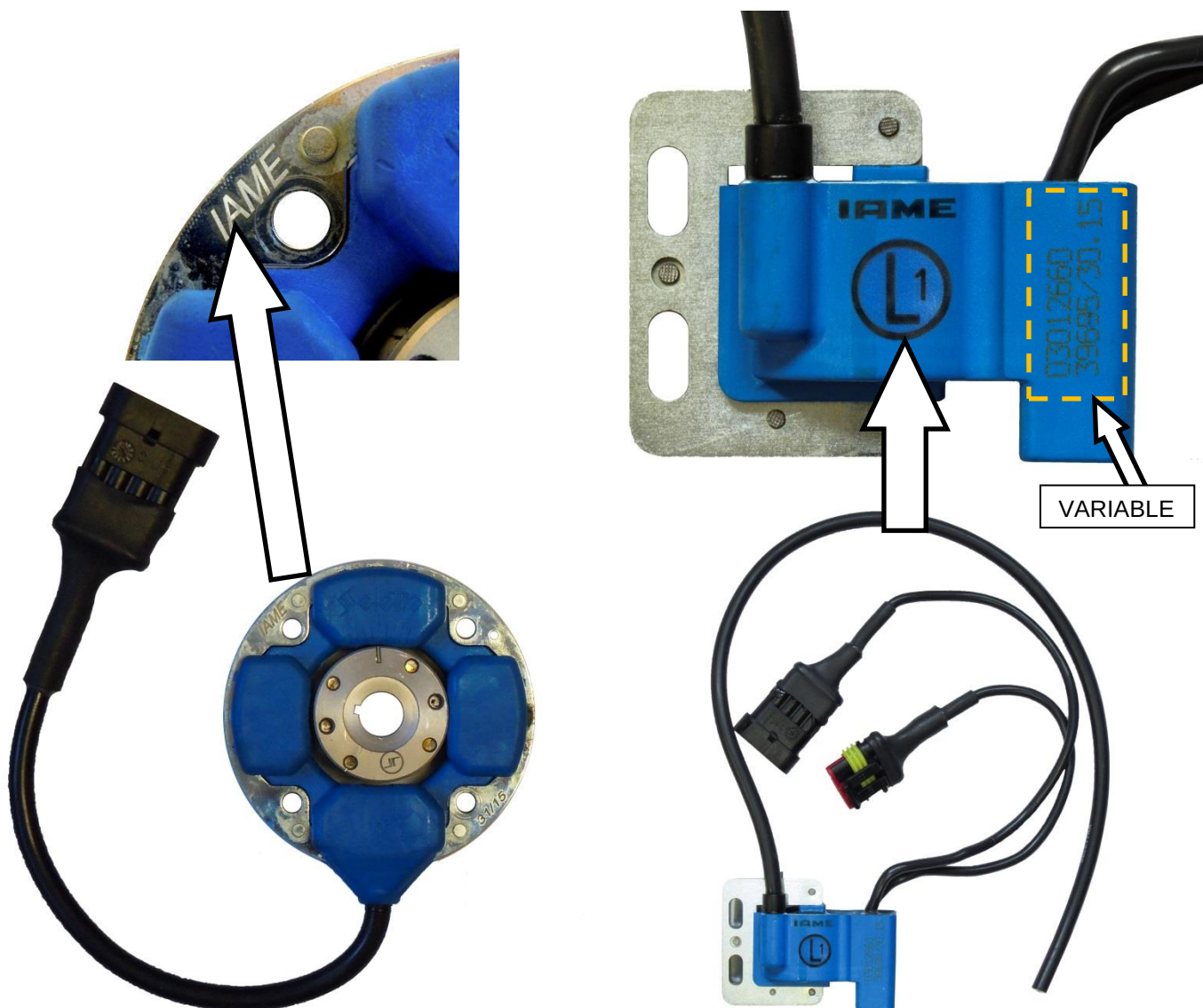
VIEW FROM “B” - VEU DEPUIS “B”



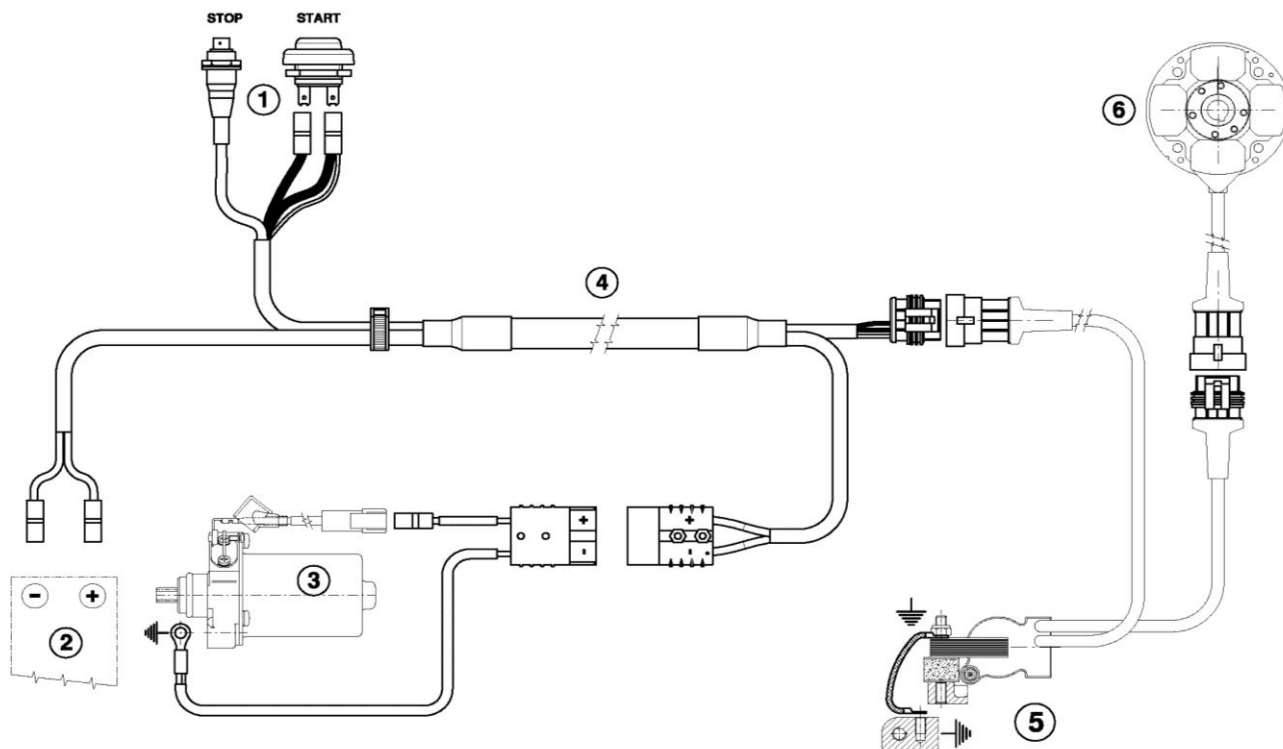
PHOTO COMPLETE ALTERNATIVE WIRING LOOM
 PHOTO DU CABLAGE ELECTRONIQUE COMPLET



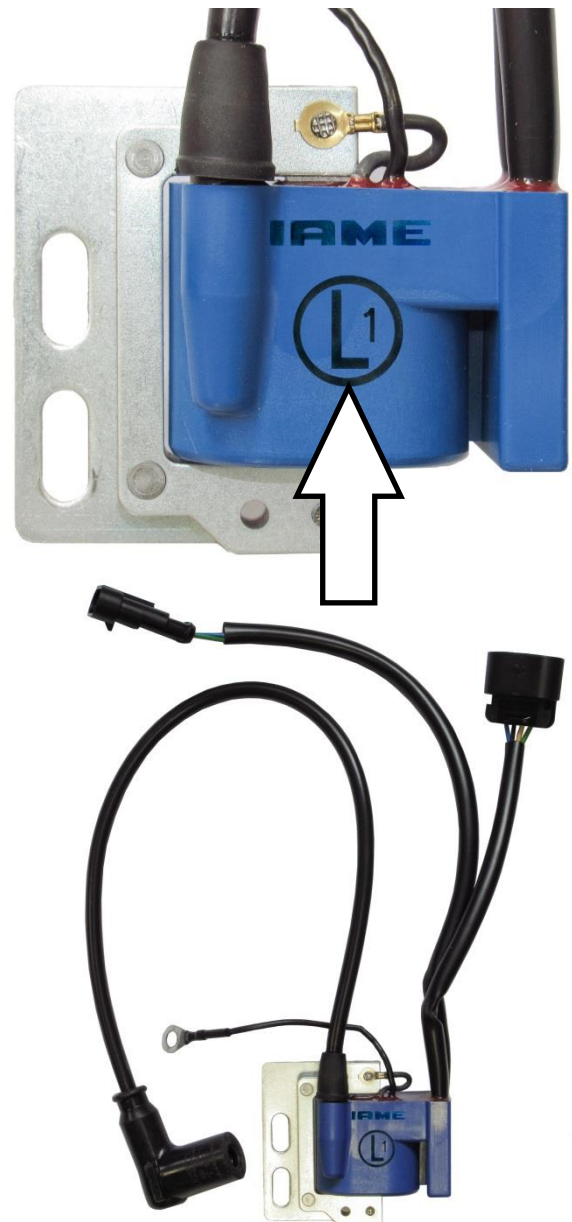
PHOTO OF SELETTRA ALTERNATIVE DIGITAL "S" IGNITION, WITH IAME MARKING
 PHOTO DU SELETTRA DIGITAL "S" ALLUMAGE, AVEC MARQUAGE IAME



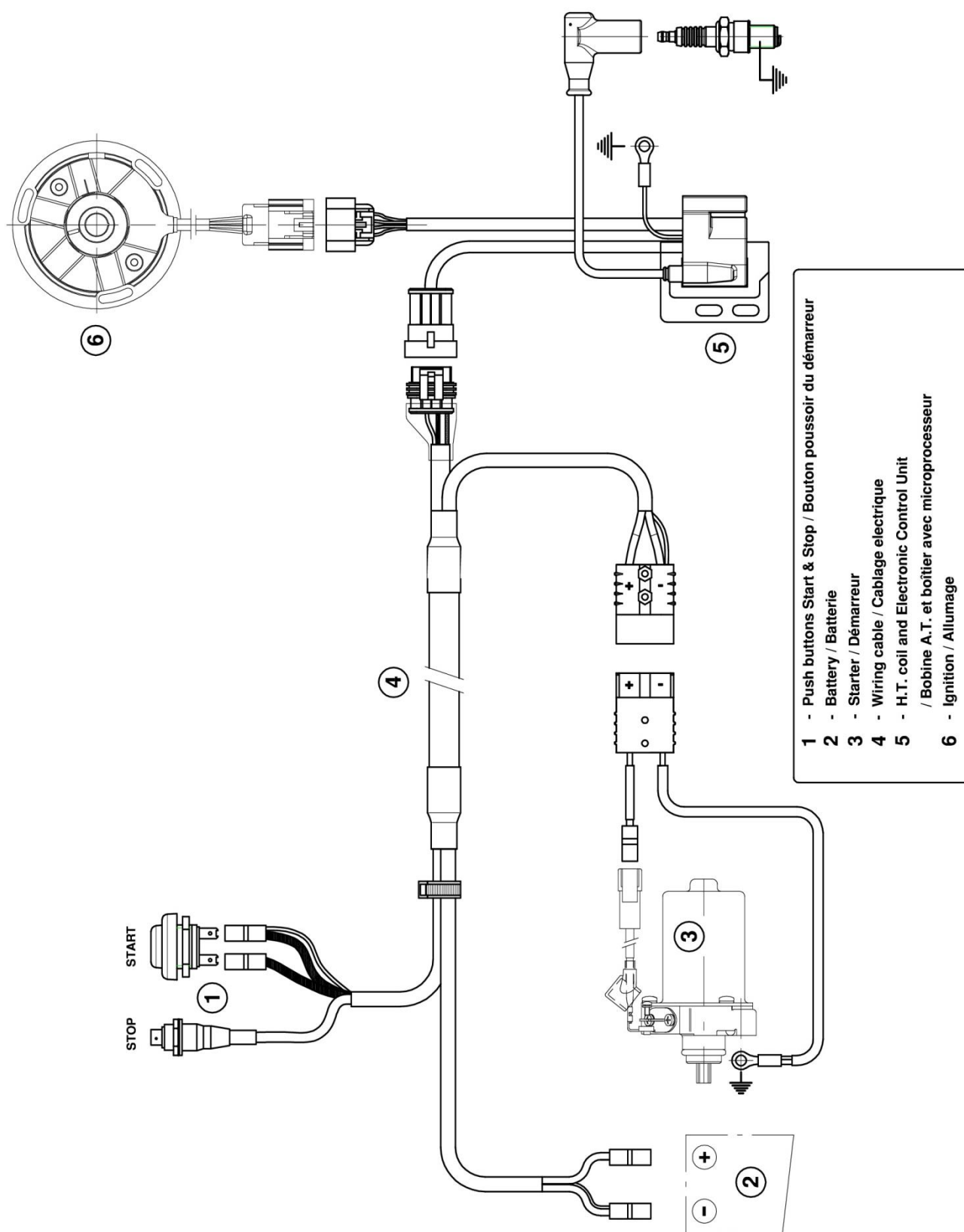
WIRING DIAGRAM (SELETTRA DIGITAL "S" IGNITION)
SCHEMA CIRCUIT ELECTRIQUE (ALLUMAGE SELETTRA DIGITAL "S")



- 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**



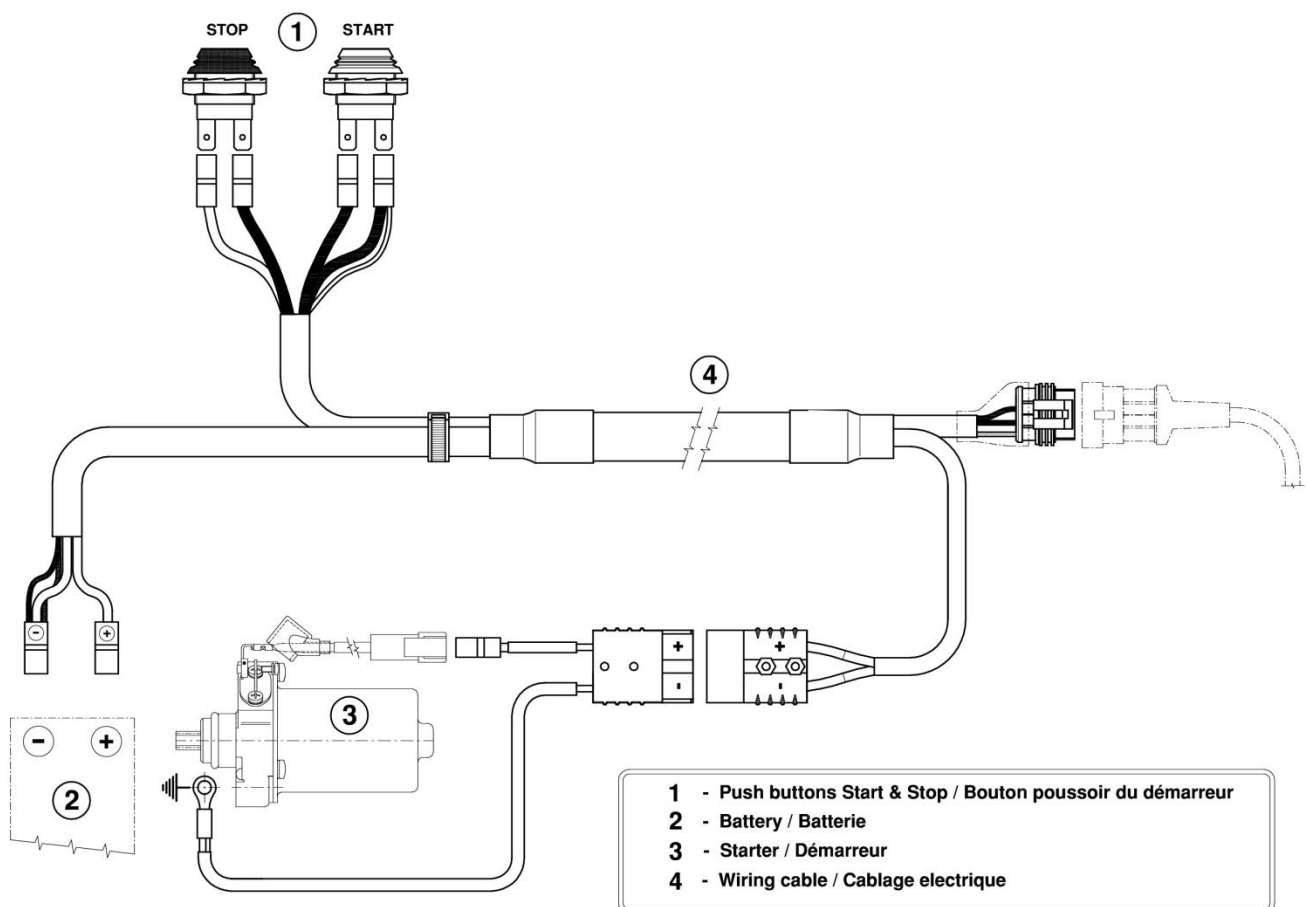
ALTERNATIVE WIRING DIAGRAM – PVL 690 DIGITAL IGNITION
 SCHEMA CIRCUIT ELECTRIQUE ALTERNATIVE - ALLUMAGE PVL 690 DIGITAL



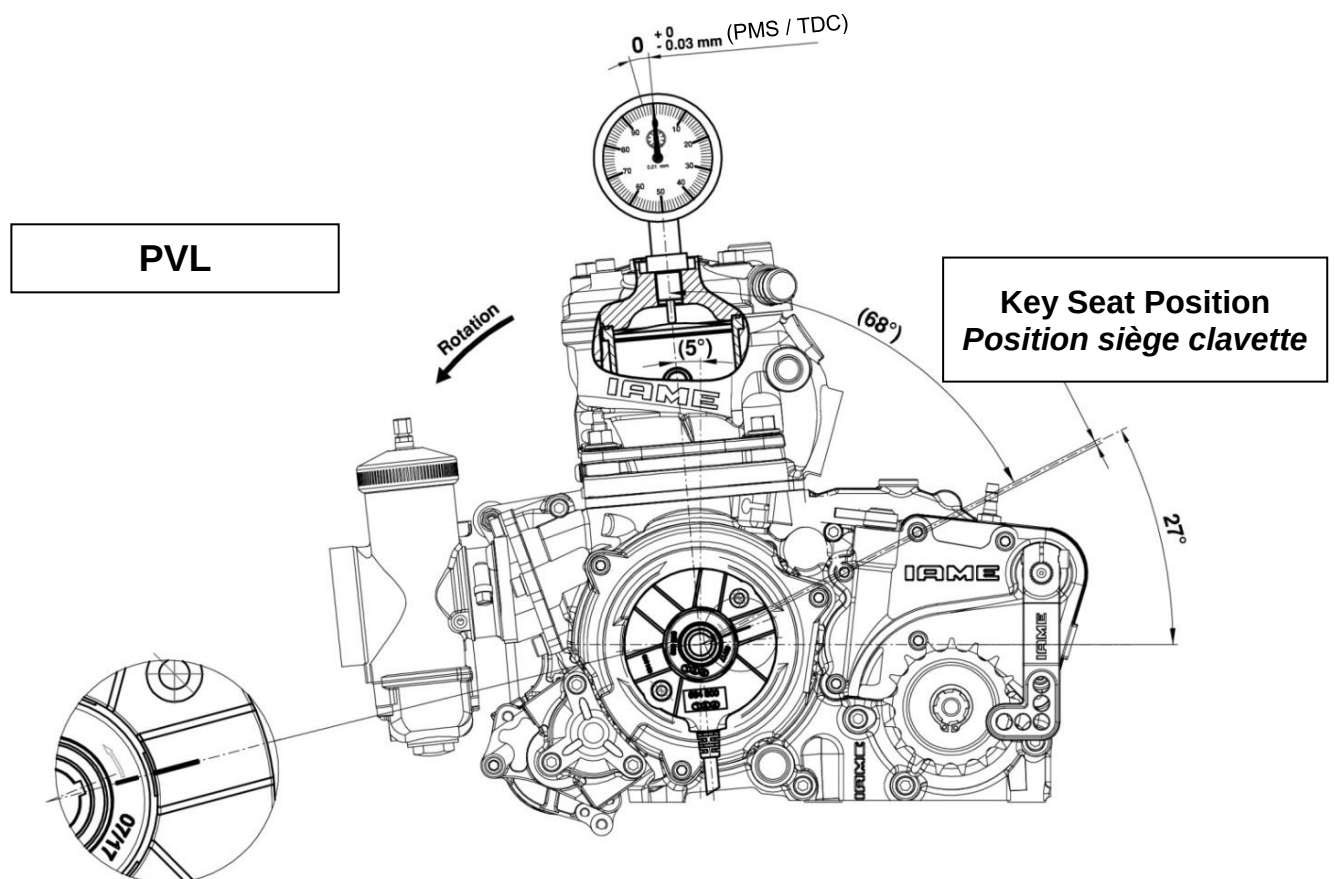
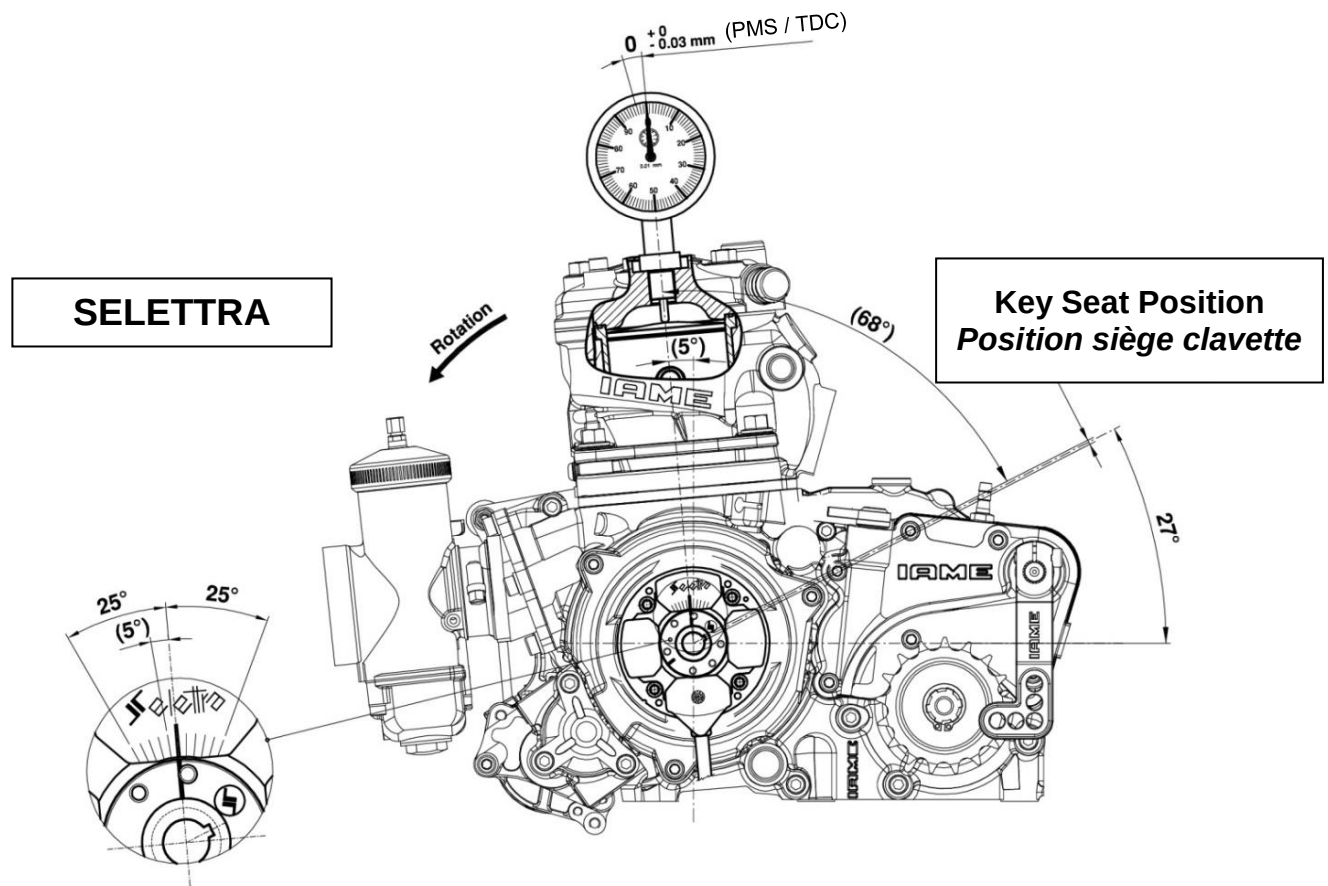
ALTERNATIVE WIRING LOOM
PHOTO DU CABLAGE ELECTRIQUE ALTERNATIVE



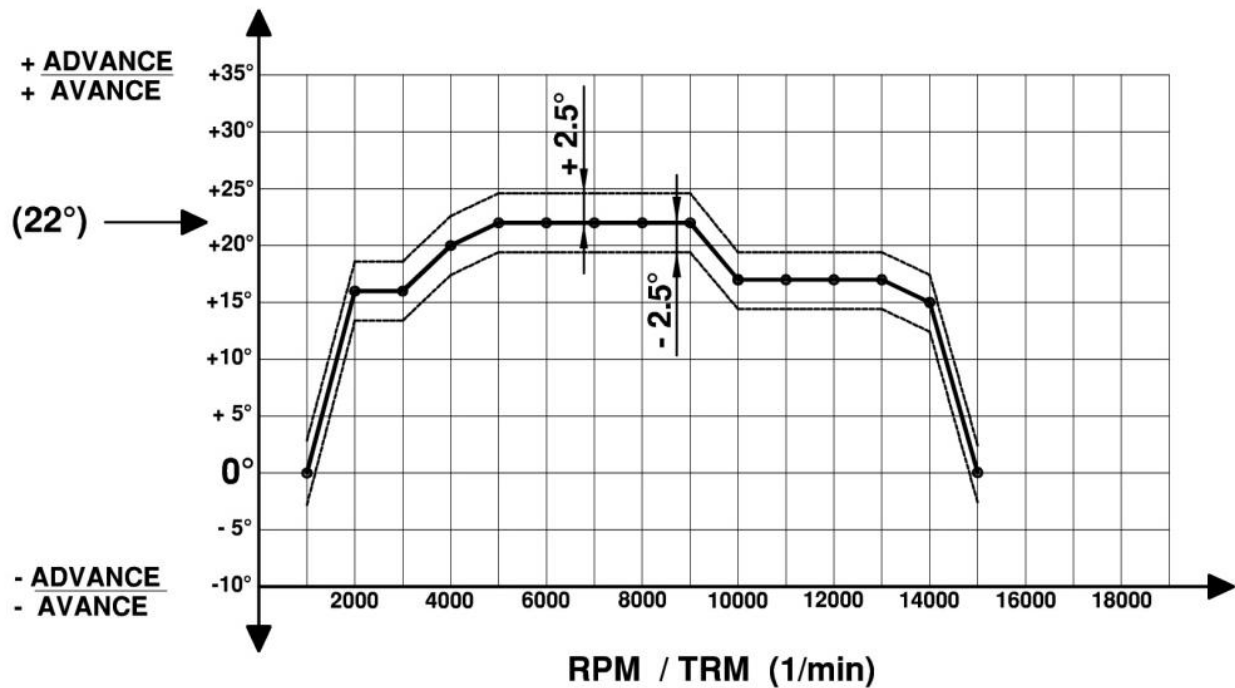
ALTERNATIVE WIRING LOOM DIAGRAM
SCHEMA DU CABLAGE ALTERNATIVE



SCHEME FOR ADVANCE CONTROL
SCHEMA DE CONTROLE POUR L'AVANCE



ADVANCE CURVE GRAPHS GRAPHIQUES DE LA COURBE D'AVANCE

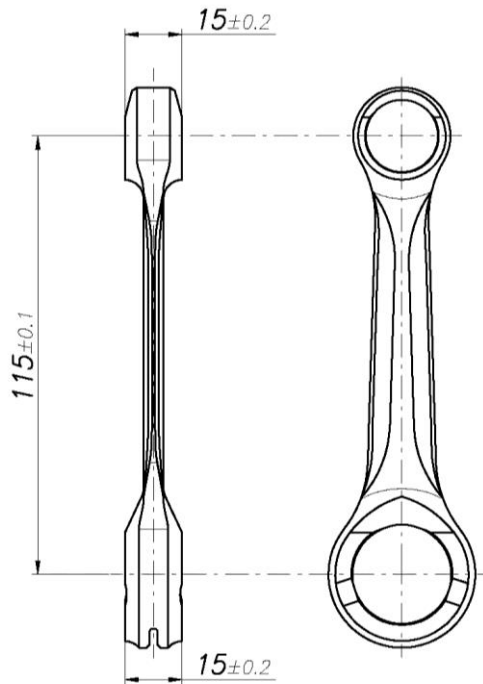


"L1" MAPPING / MAPPAGE

Tr/ min	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000	13000	14000	15000
° adv	0°	16°	16°	20°	22°	22°	22°	22°	22°	17°	17°	17°	17°	15°	0°

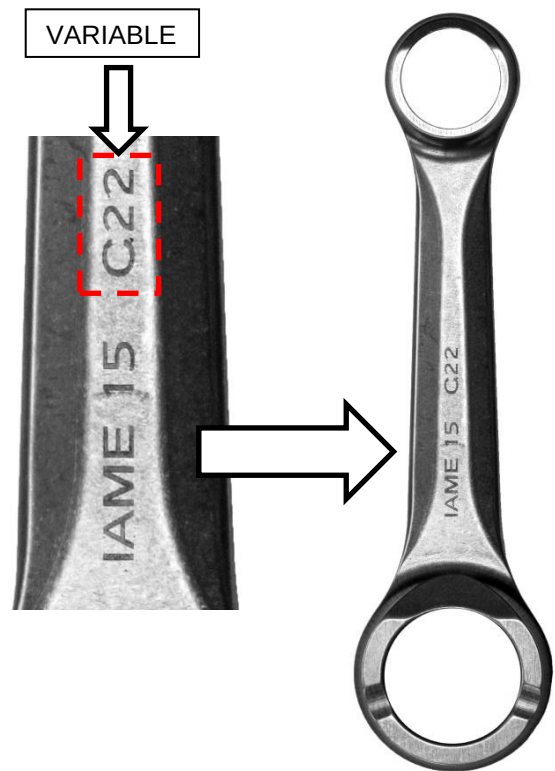
ALTERNATIVE CONROD IDENTIFICATION
 IDENTIFICATION DU BIELLE ALTERNATIVE

DISTANCE BETWEEN CONROD CENTERS
 ENTRE AXE DE LA BIELLE



Min. weight 119 g
 Poids min. 119 g

PHOTO IDENTIFICATION
 IDENTIFICATION PHOTO



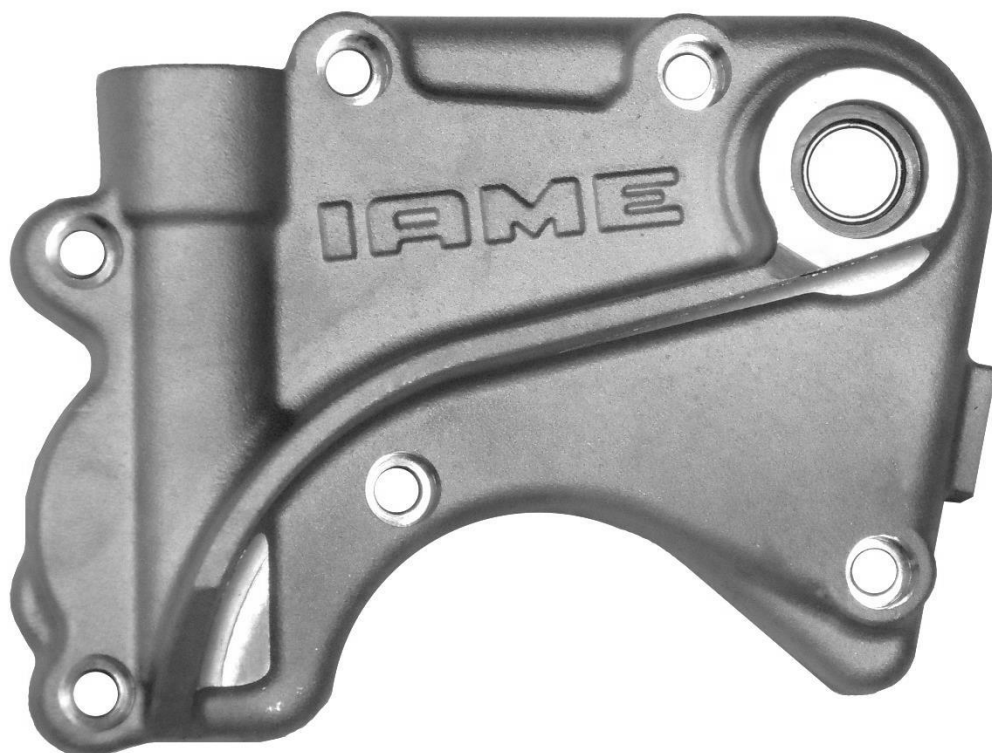
Current PRESELECTOR CONTROL SHAFT
 Actuelle ARBRE COMMANDE PRESELECTEUR



New PRESELECTOR CONTROL SHAFT
 Nouvelle ARBRE COMMANDE PRESELECTEUR

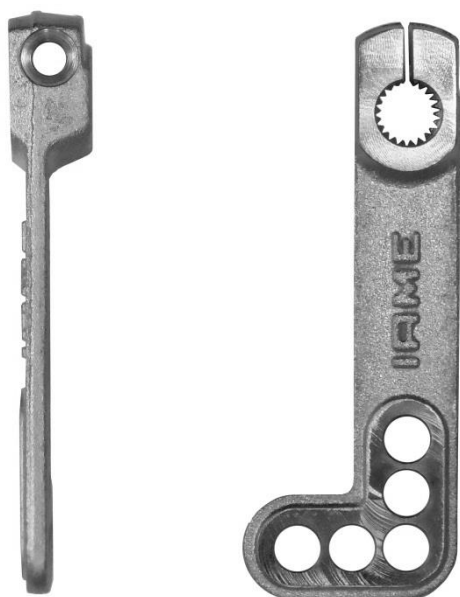


ALTERNATIVE SELECTOR COVER IDENTIFICATION
 IDENTIFICATION DU COUVERCLE SELECTEUR ALTERNATIVE



Current SHIFT CONTROL LEVER
 Actuelle LEVIER CHANGEM. VITESSE

New SHIFT CONTROL LEVER
 Nouvelle LEVIER CHANGEM. VITESSE



ALTERNATIVE CYLINDER CROSS SECTION VIEW
VUE EN SECTION DU CYLINDRE ALTERNATIVE

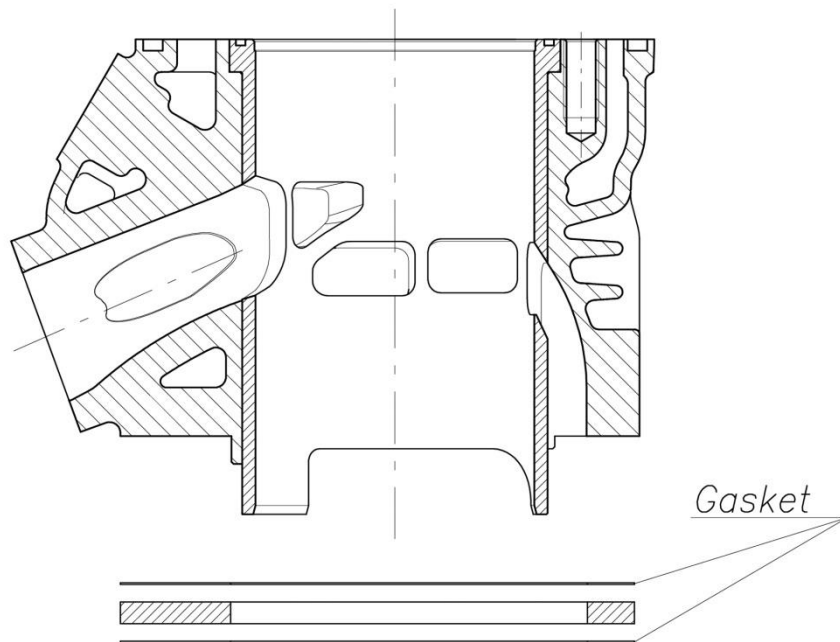


PHOTO OF THE ALTERNATIVE CYLINDER FROM ABOVE
VUE DU HAUT DU CYLINDRE ANTERNATIVE

