

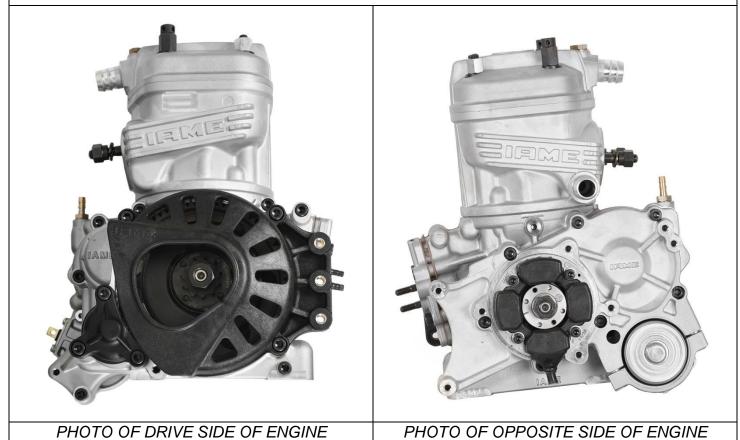
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ENGINE

IAME X30 - TaG

| Manufacturer | IAME S.P.A - ZINGONIA |
|------------------------------|-----------------------|
| Make | IAME |
| Model | X30 125cc RL - TAG |
| Validity of the homologation | 9 years |
| Number of pages | 64 |

This Homologation Form reproduces descriptions, illustrations and dimensions of the engine at the time that Australian Independent Kart Association conducted the homologation. The height of the complete engine on all photographs must be as a minimum 7 cm.



Signature and Stamp Australian Independent Dirt Kart Association



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PHOTO OF DRIVE SIDE OF THE COMPLETE ENGINE





PHOTO OF OPPOSITE DRIVE SIDE OF THE COMPLETE ENGINE





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PHOTO OF THE REAR OF THE COMPLETE ENGINE





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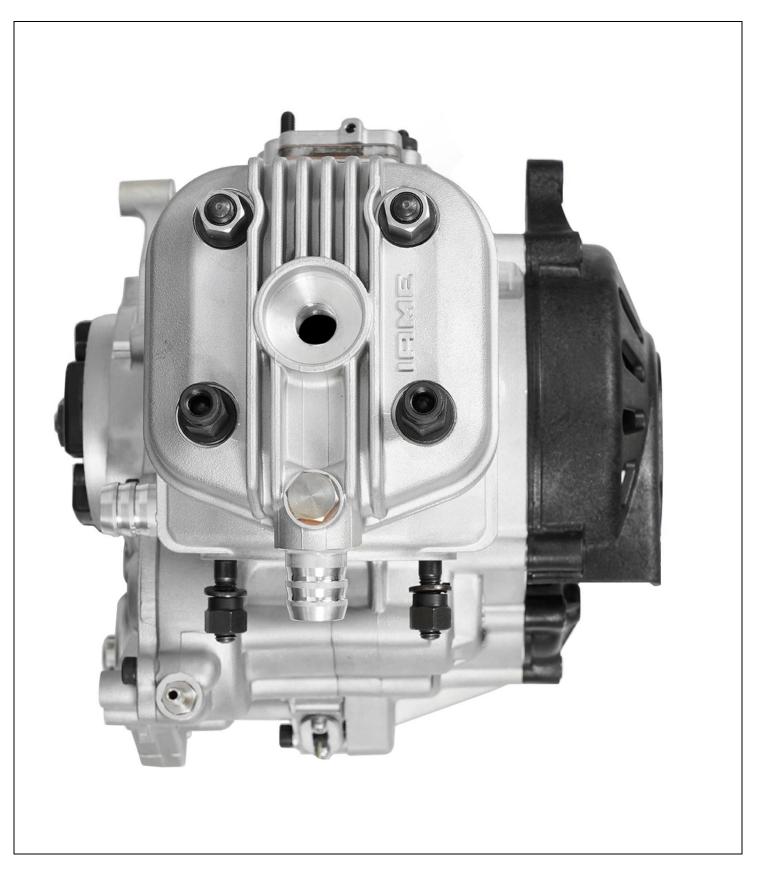
PHOTO OF THE FRONT OF THE COMPLETE ENGINE





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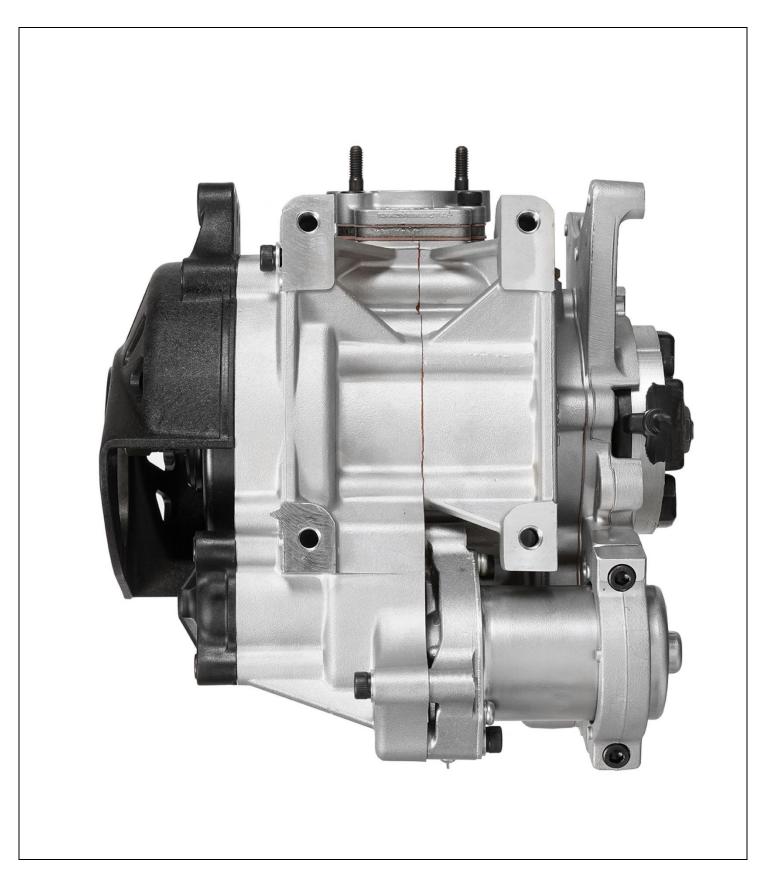
PHOTO OF THE COMPLETE ENGINE TAKEN FROM ABOVE





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PHOTO OF THE COMPLETE ENGINE TAKEN FROM BELOW





TECHNICAL INFORMATION

| А | CHARACTERISTICS | | | |
|---------------------------------|---|------------------------------|----------------------------------|--|
| The nu | mber of decimal places must be 2 or comply with the relevant tolerance. | | Tolerances & remarks | |
| | | | | |
| | Cylinder | | | |
| Volur | ne of cylinder | <u>123.67 cm³</u> | <u><125.00 cm³</u> | |
| Origii | nal bore | <u>54.00 mm</u> | | |
| Theo | ritical maximum bore | <u>54.28 mm</u> | | |
| Origii | nal Stroke | <u>54.40 mm</u> | | |
| Num | har of transfor duoto, owlindar / oump | 2/2 | | |
| | ber of transfer ducts, cylinder / sump | 3/3 | | |
| | ber of exhaust ports / ducts | <u>3/3</u> | | |
| | me of the combustion chamber (with AUS insert) | <u>10.3 cm³</u> | minimum | |
| | me of the combustion chamber in the cylinder head | <u>12.8 cm³</u> | minimum | |
| (with | AUS insert) | | | |
| N/ | Crankshaft | | | |
| | ber of bearings | 2 | | |
| | eter of bearings | <u>30 mm</u> | ±0.1mm | |
| Minimum weight of crankshaft | | <u>2150 g</u> | minimum | |
| All par | ts represented on page 16 photo | | | |
| | Balance shaft | | | |
| Minimum weight of balance shaft | | <u>315 g</u> | minimum | |
| Perce | entage of balancing | <u>52 %</u> | minimum | |
| | Connecting rod | | | |
| Conr | ecting rod centreline | 102 mm | ±0.1mm | |
| | eter of big end | 26 mm | ±0.05mm | |
| | eter of small end | <u>18 mm</u> | ±0.05mm | |
| Min. | weight of the connecting rod | <u>110 g</u> | minimum | |



| Piston | | |
|---|---------------|---------|
| | | |
| Number of piston rings | 1 | |
| Min. weight of the bare piston (ring incuded) | <u>128 g</u> | minimum |
| Gudgeon pin | | |
| Diameter | <u>14 mm</u> | ±0.05mm |
| Length | <u>44 mm</u> | ±0.15mm |
| Minimum weight | <u>28.0 g</u> | Minimum |
| Clutch | | |
| Minimum weight | <u>950 g</u> | minimum |
| Of all the parts represented on the page 19 technical drawing | | |

| В | OPENING A | NGLES | | |
|--------|---|---------------|------|--|
| Of the | f the inlet (main transfer ports) <u>126°</u> ±2° | | | |
| Of the | e inlet (3 th transfer duct engine) | <u>127°</u> | ±2° | |
| Of the | exhaust | <u>177.5°</u> | MAX. | |
| Of the | e boosters | <u>177.5°</u> | MAX. | |

| С | MATERIAL |
|----------------|-----------|
| Cylinder head | ALUMINIUM |
| Cylinder | ALUMINIUM |
| Cylinder wall | CAST IRON |
| Sump | ALUMINIUM |
| Crankshaft | STEEL |
| Connecting rod | STEEL |
| Piston | ALUMINIUM |



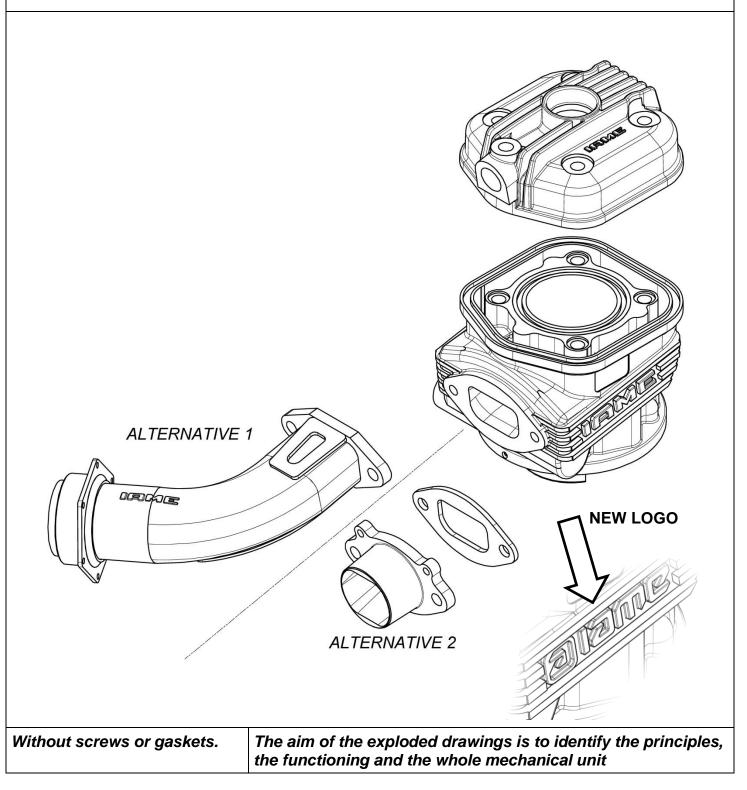
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D

PHOTOS, DRAWINGS & GRAPHS

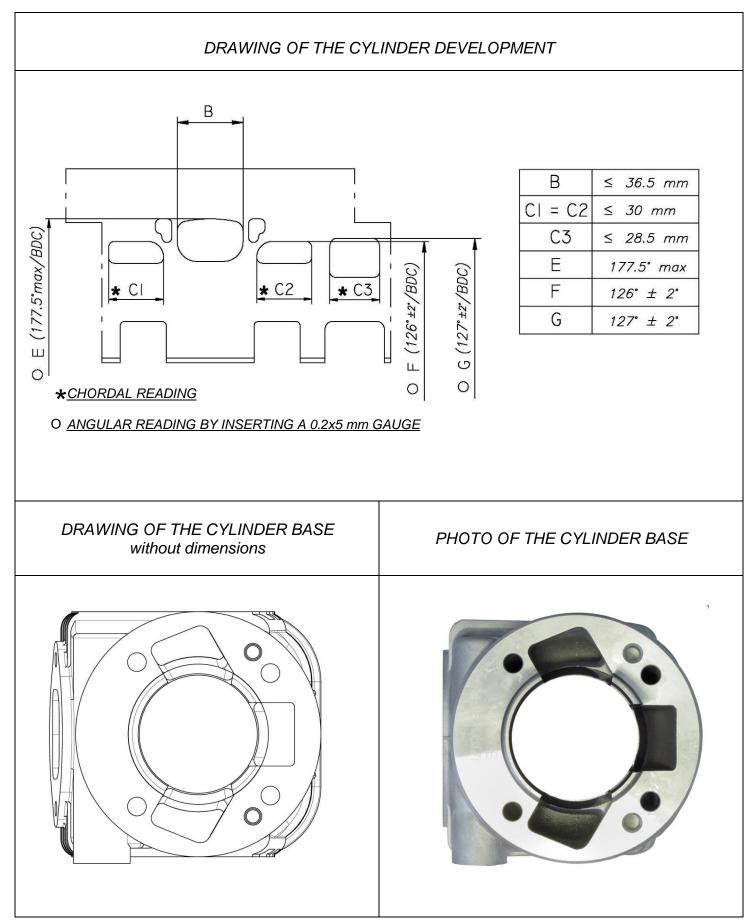
D.1 CYLINDER UNIT

EXPLODED DRAWING OF THE CYLINDER, CYLINDER HEAD AND EXHAUST MANIFOLD UNIT

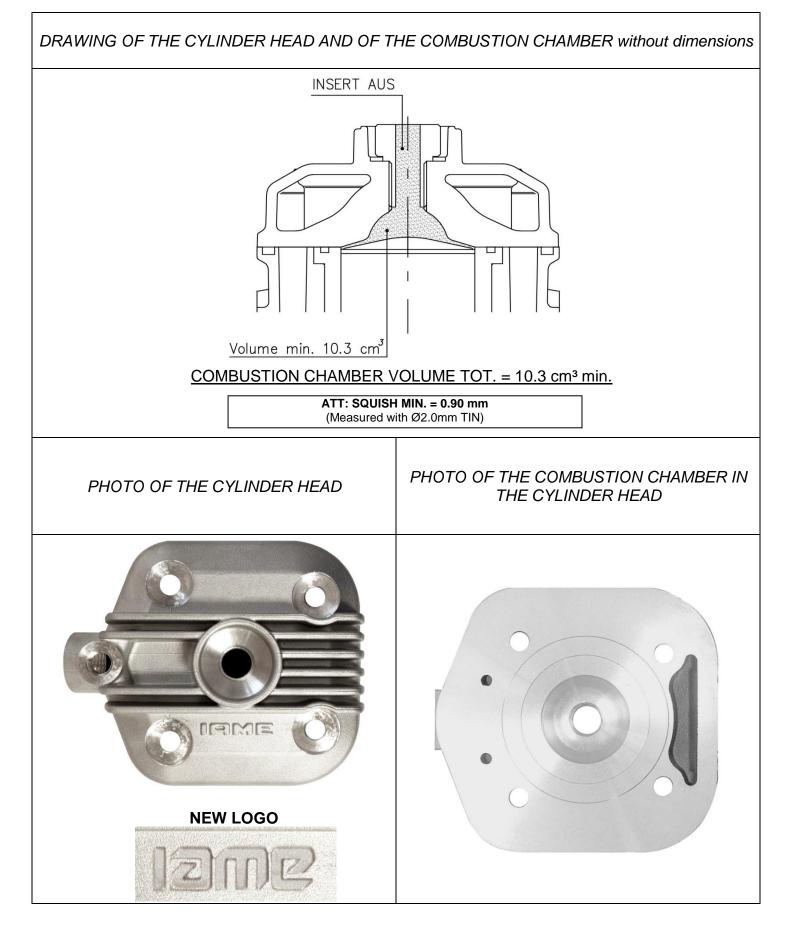




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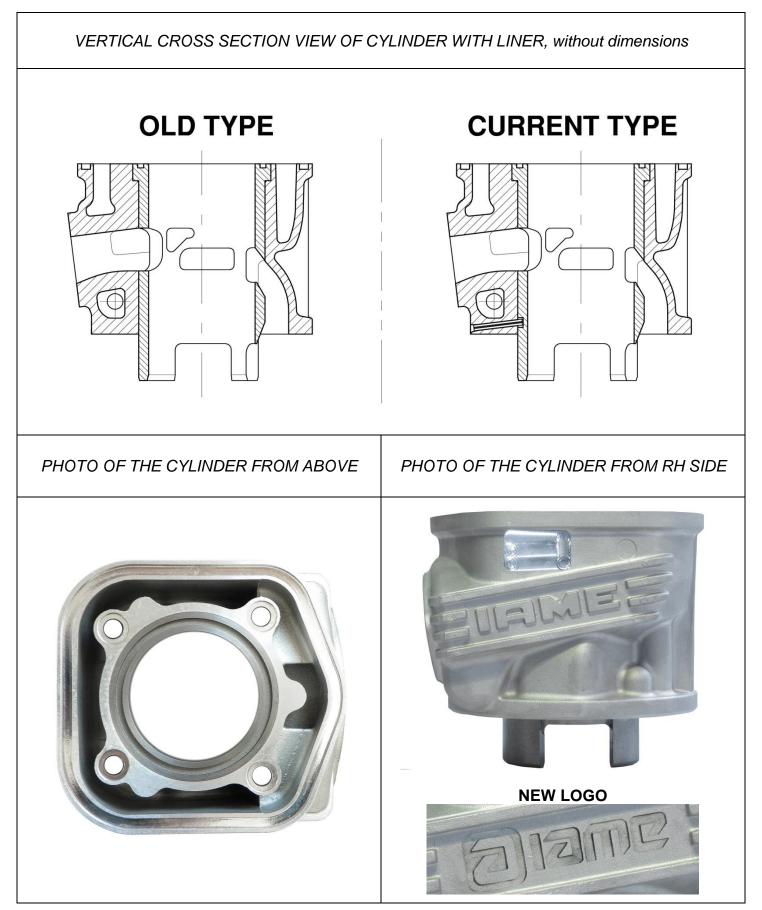








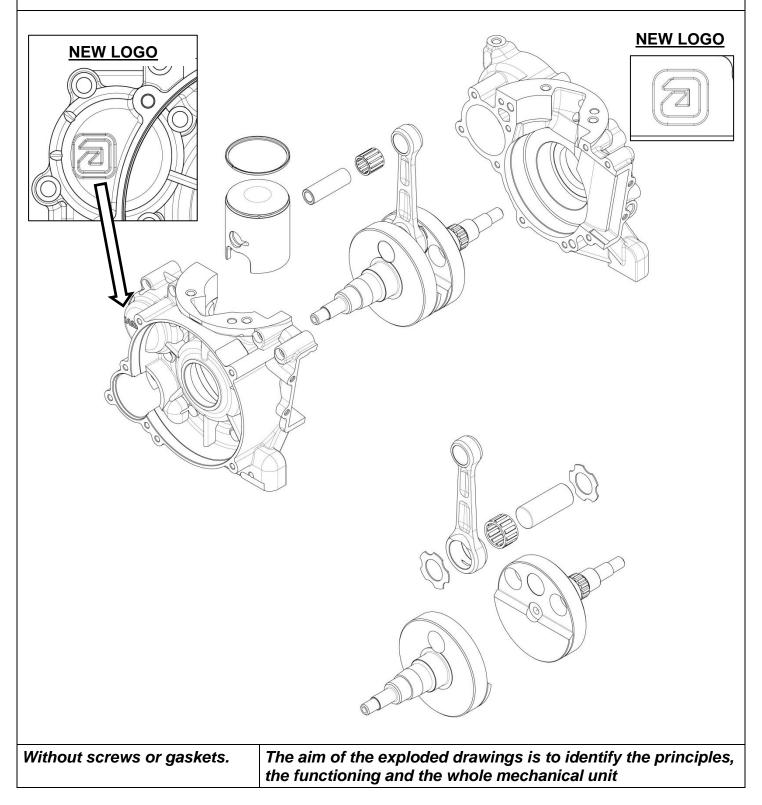
... Section D.1





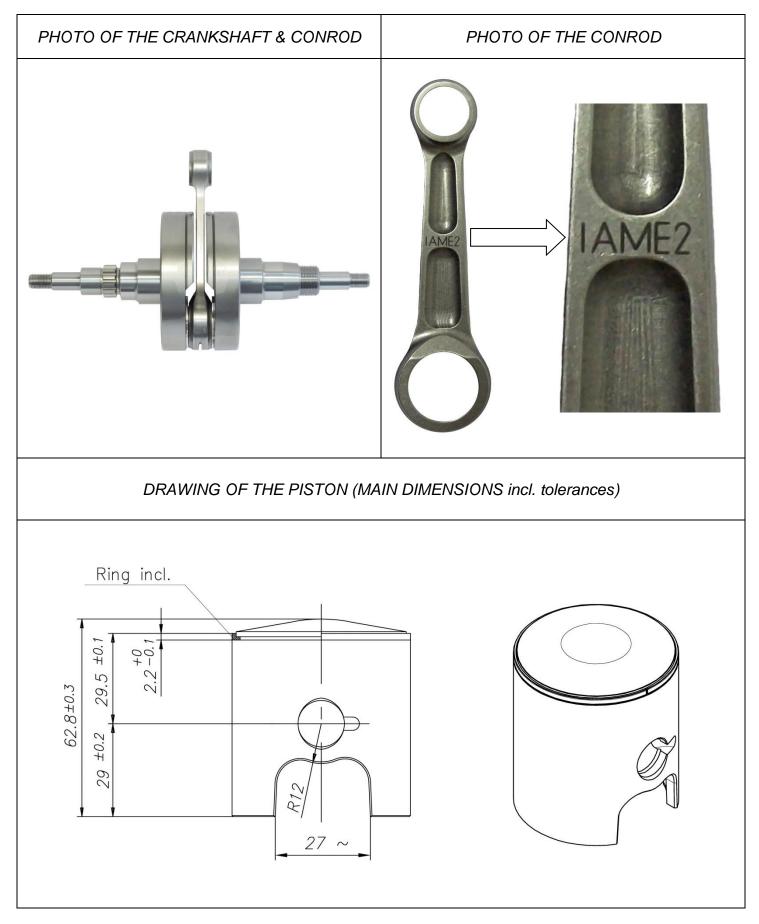
D.2 CONROD, CRANKCASE, CRANKSHAFT & PISTON

EXPLODED DRAWING OF THE PISTON, CRANKSHAFT, CONNECTING ROD AND CRANKCASES UNIT (exploded crankshaft)





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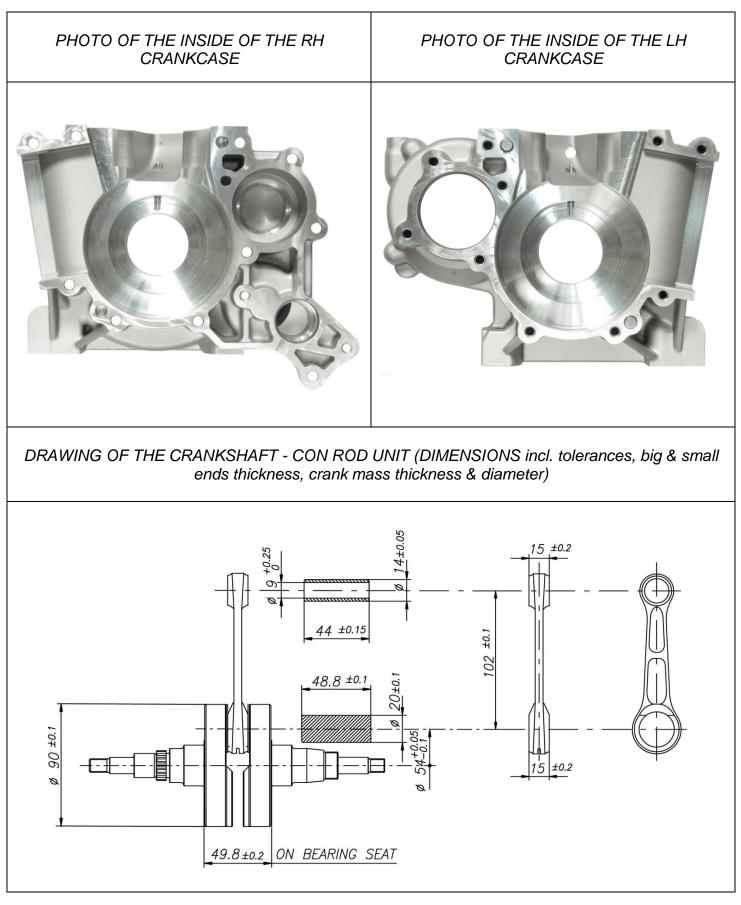








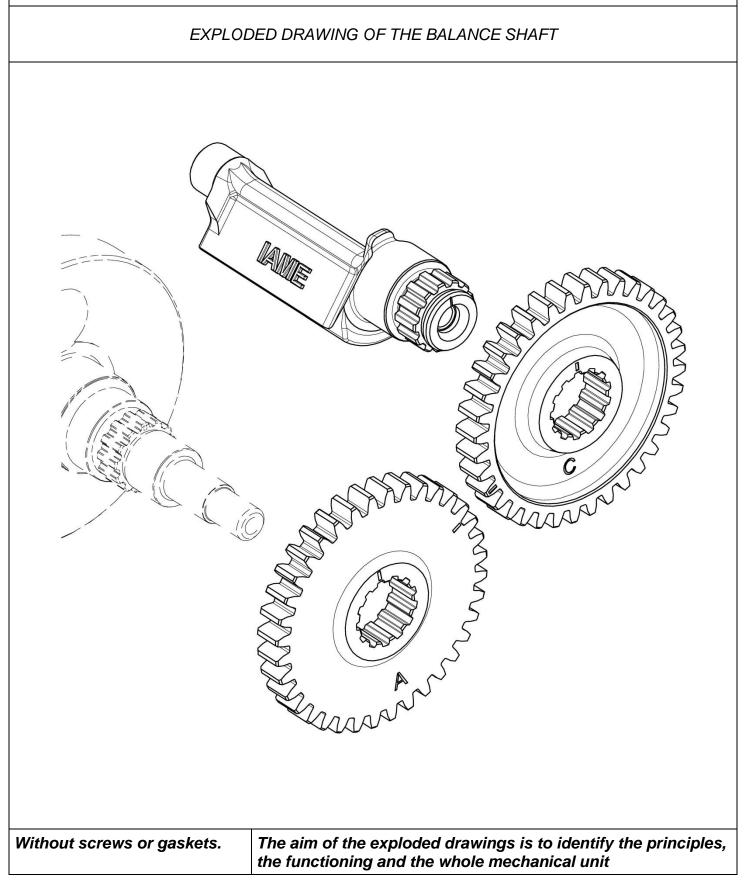
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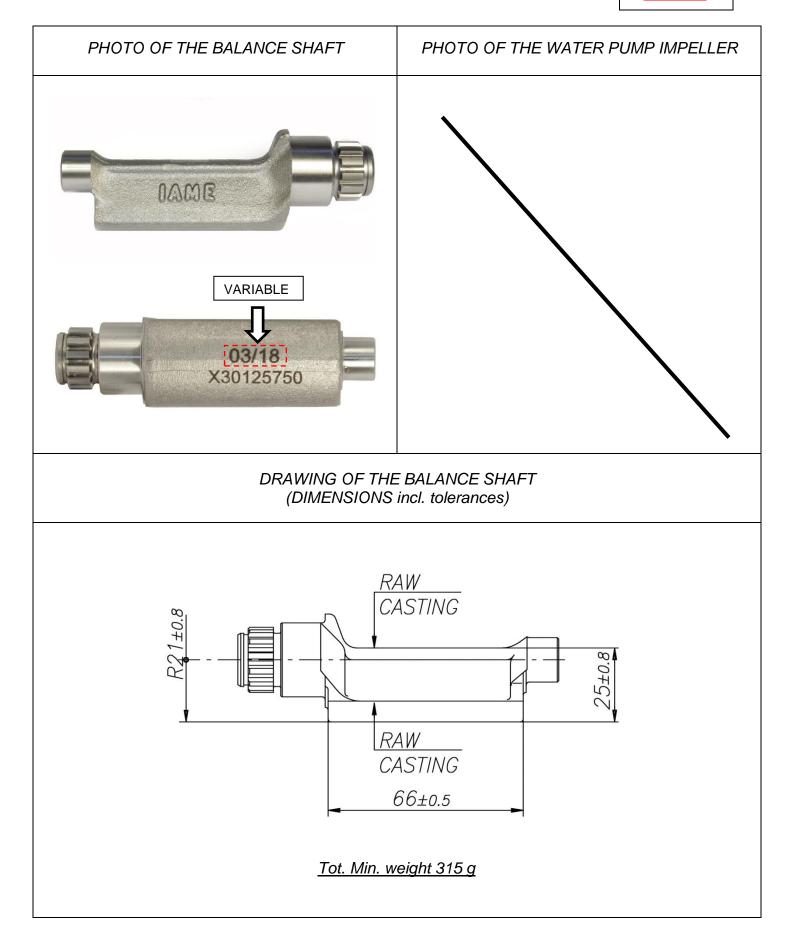


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D.3 BALANCE SHAFT



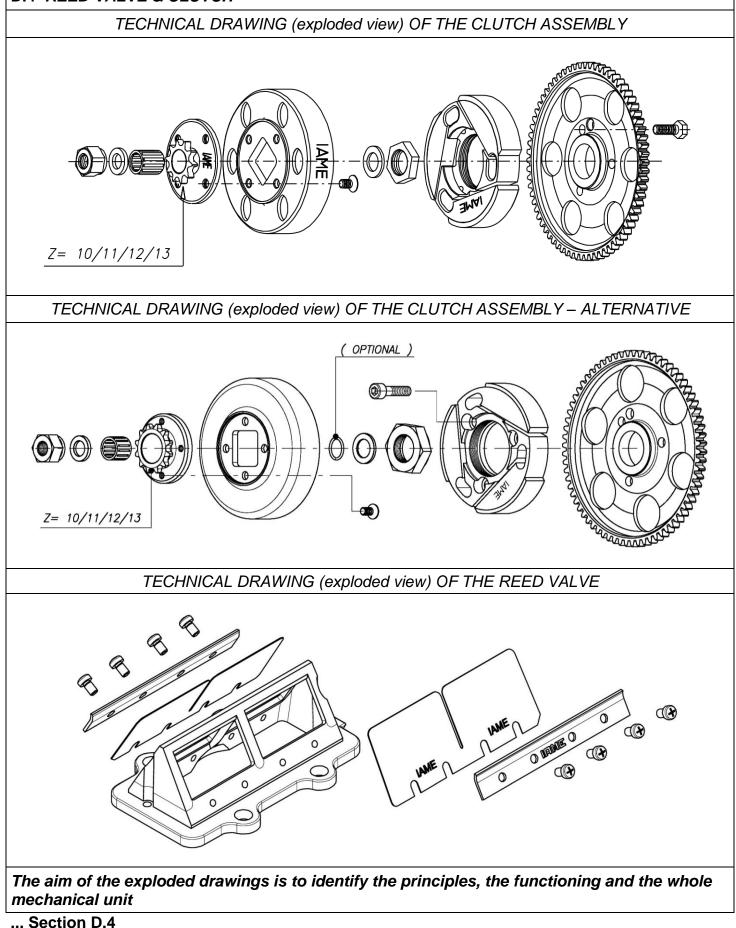




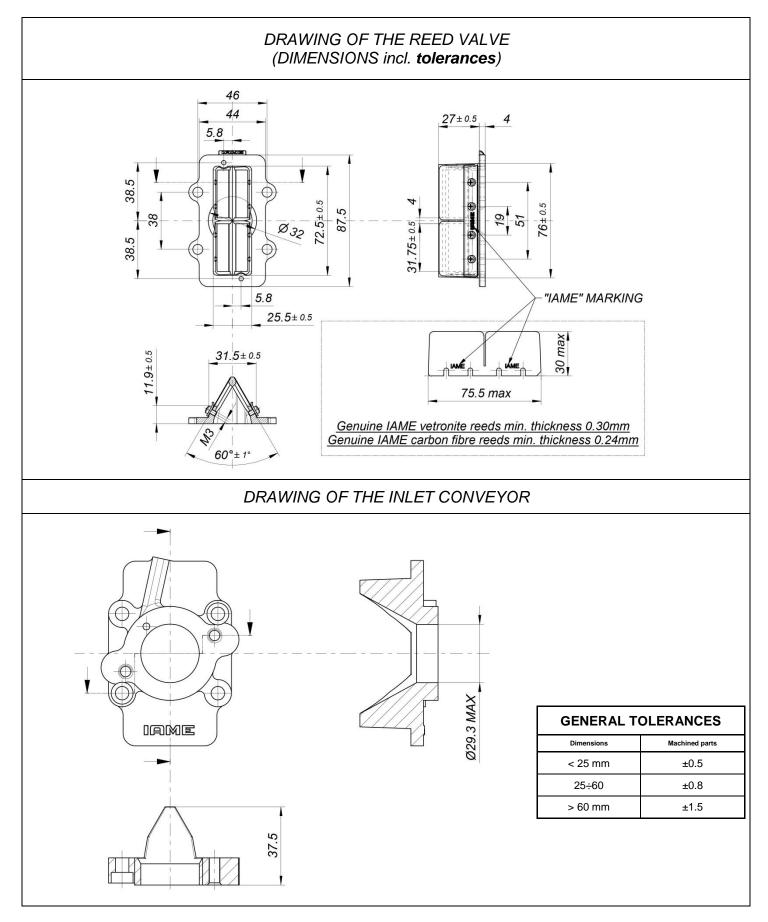


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D.4 REED VALVE & CLUTCH



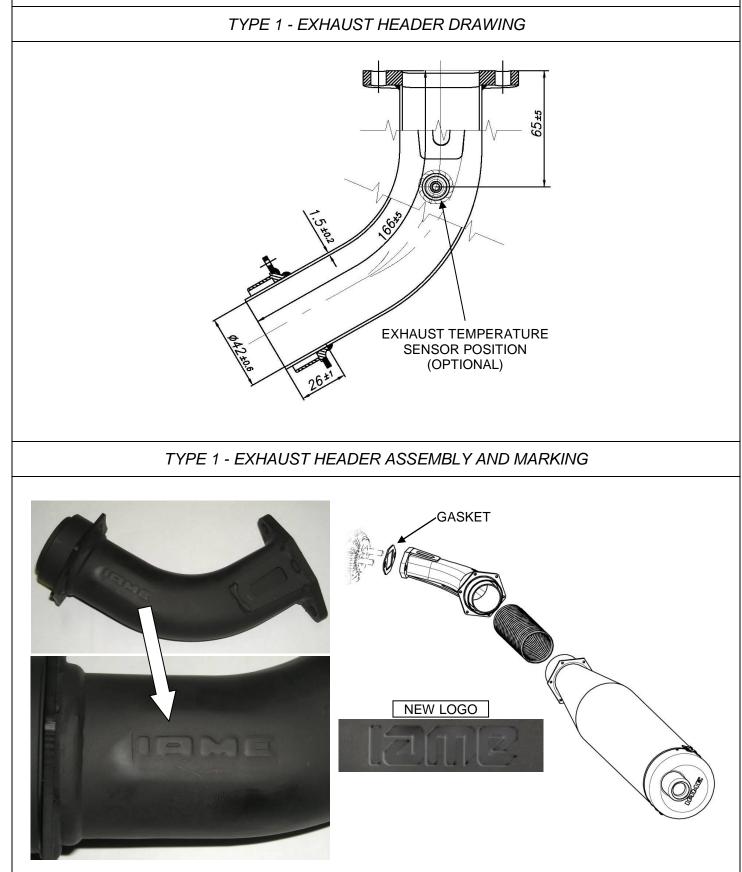




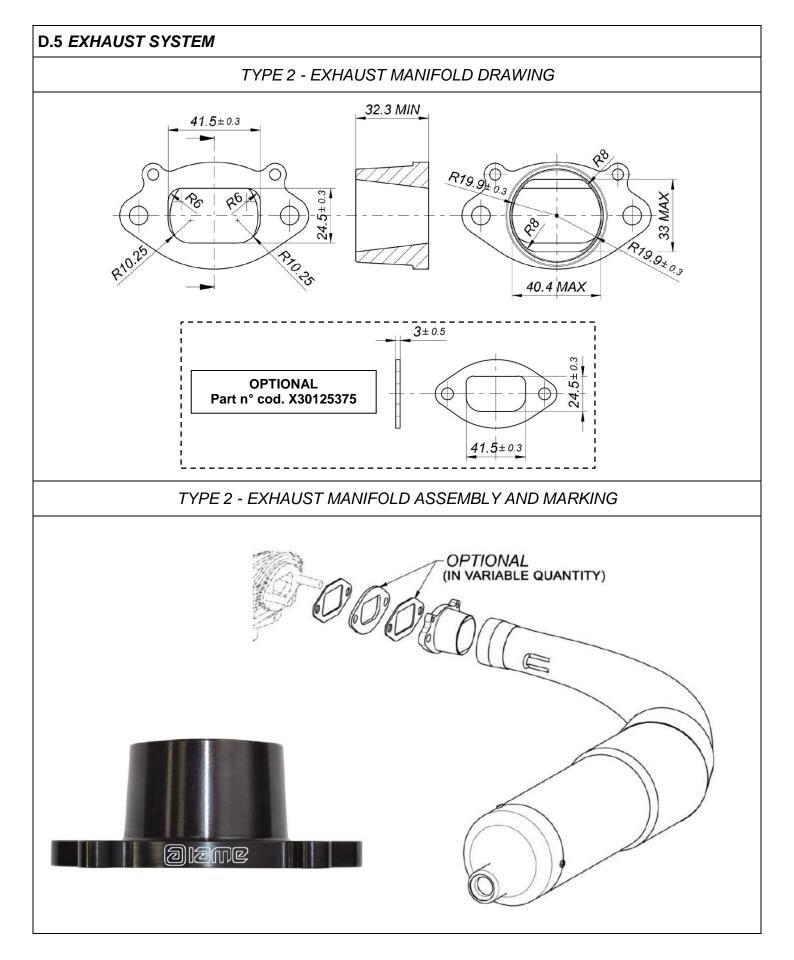


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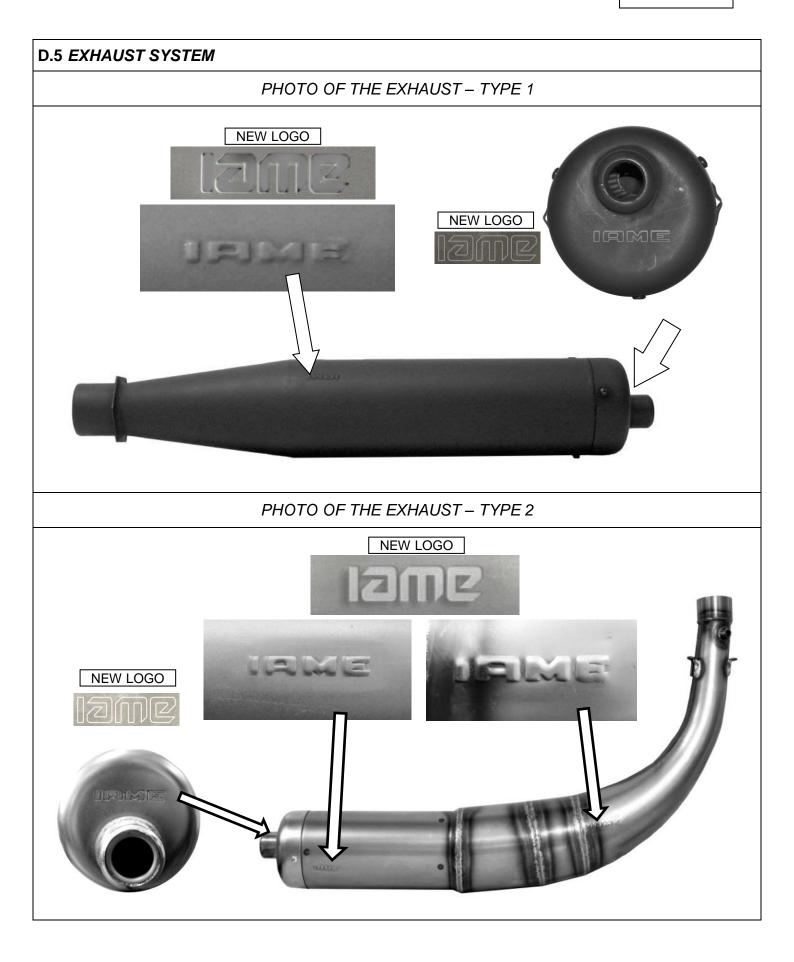
D.5 EXHAUST SYSTEM







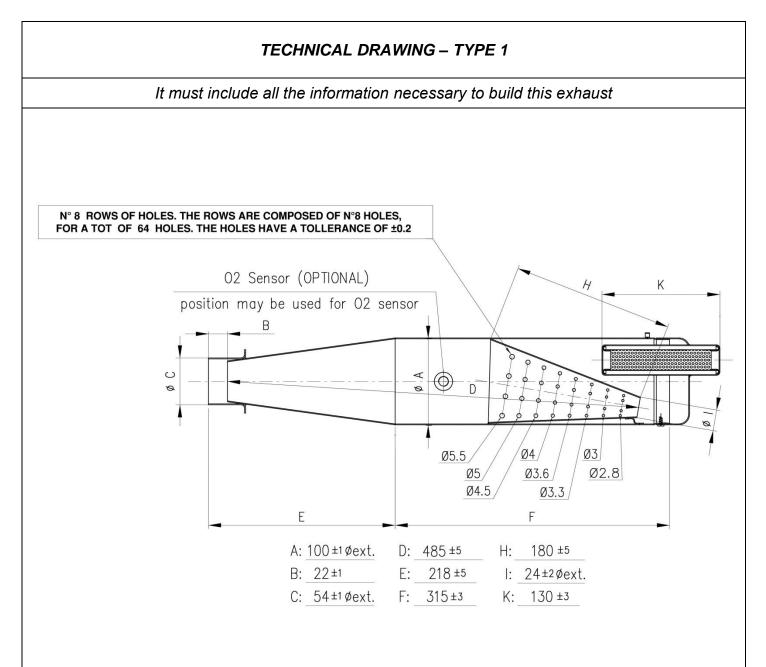






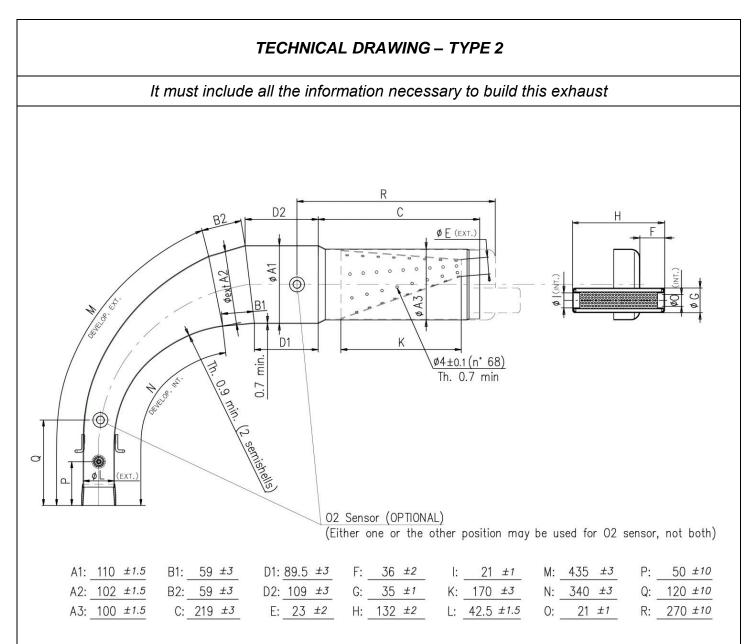
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| TECHNICAL DESCRIPTIONS OF THE EXHAUST (Art. 8.9.3 of HR) – TYPE 1 | | |
|---|-------------|---------|
| Weight in g | 1390 | Minimum |
| Volume in cc | <u>3330</u> | +/-5 % |





| TECHNICAL DESCRIPTIONS OF THE EXHAUST (Art. 8.9.3 of HR) – TYPE 2 | | |
|---|-------------|---------|
| Weight in g | <u>1780</u> | Minimum |
| Volume in cc | <u>4250</u> | +/-5 % |





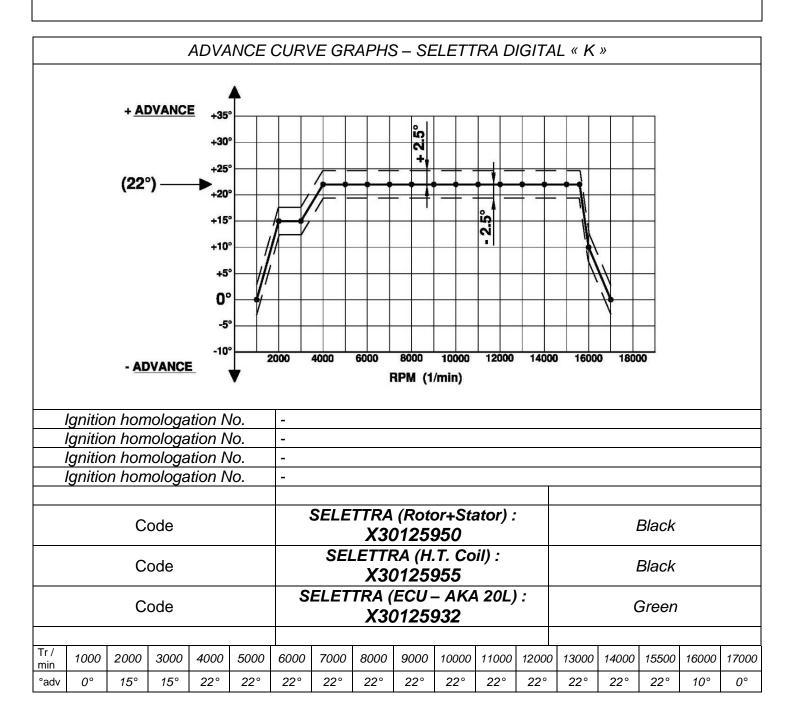
D.6 STARTER EXPLODED DRAWING OF THE STARTING UNIT AND OF ITS HOUSING The aim of the exploded drawings is to identify the principles, the functioning and the whole mechanical unit Without screws or gaskets.



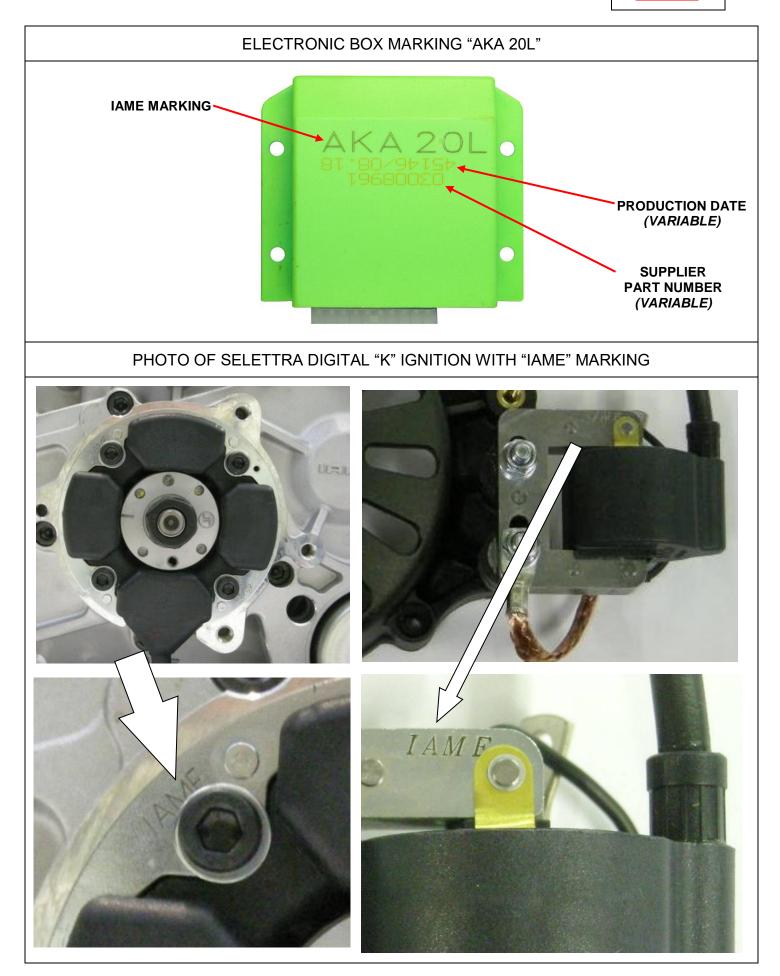
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D.8 ELECTRICAL SYSTEM

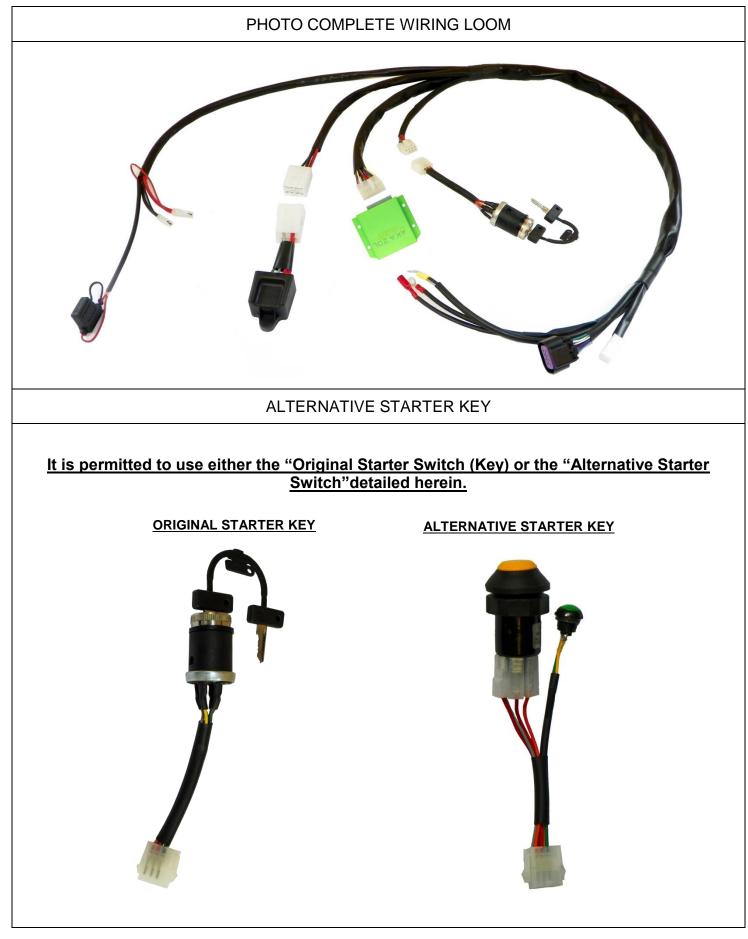
IGNITION SYSTEM – TYPE 1



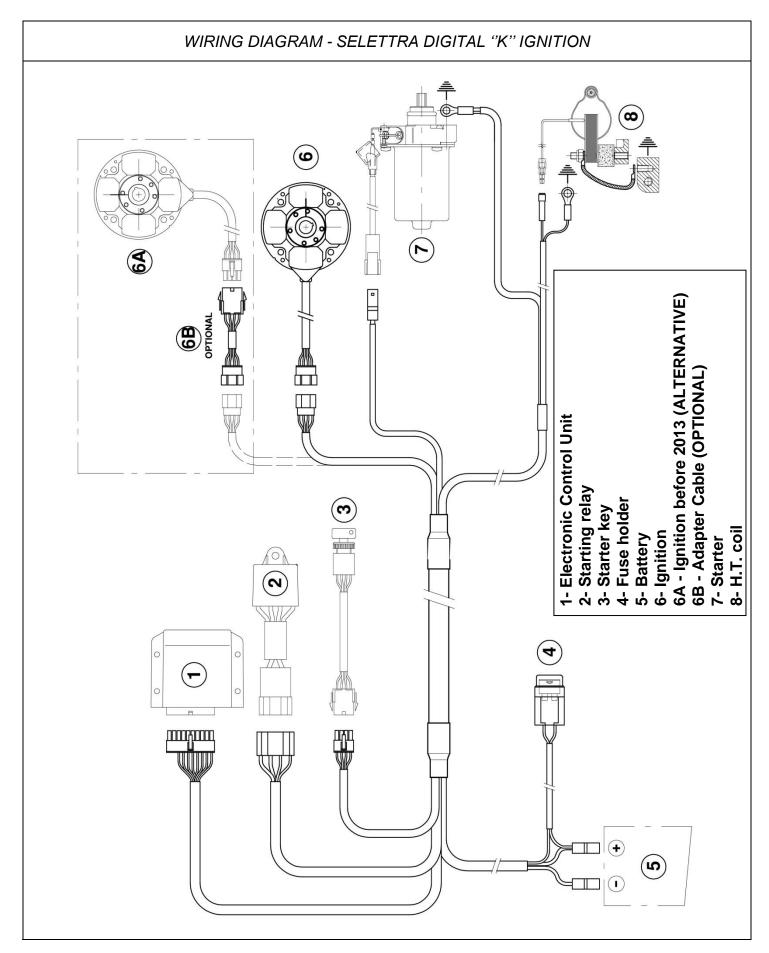








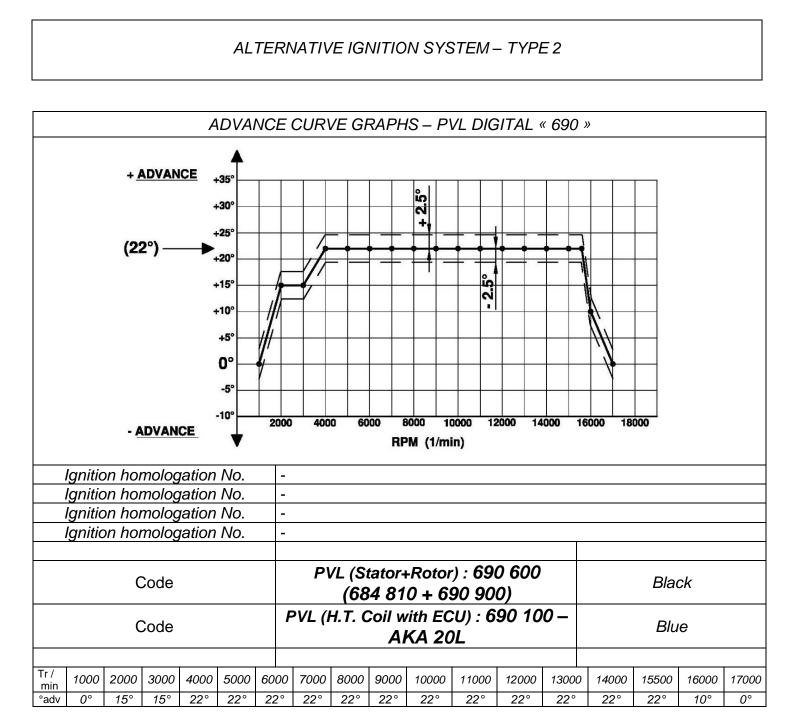






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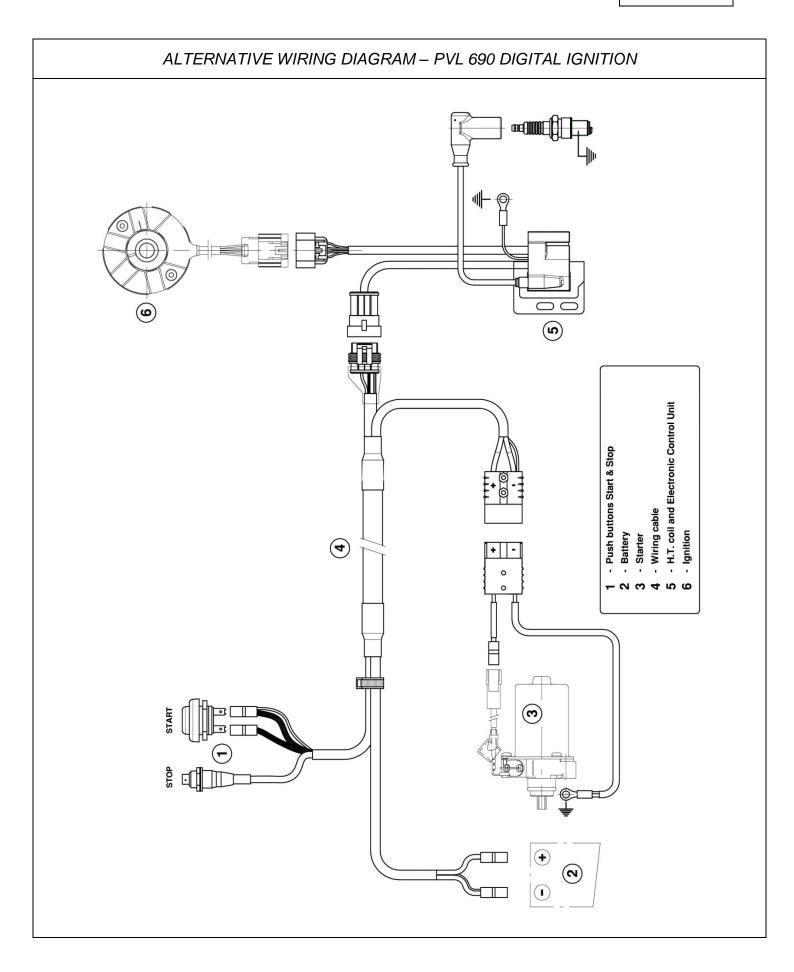
ELECTRICAL SYSTEM



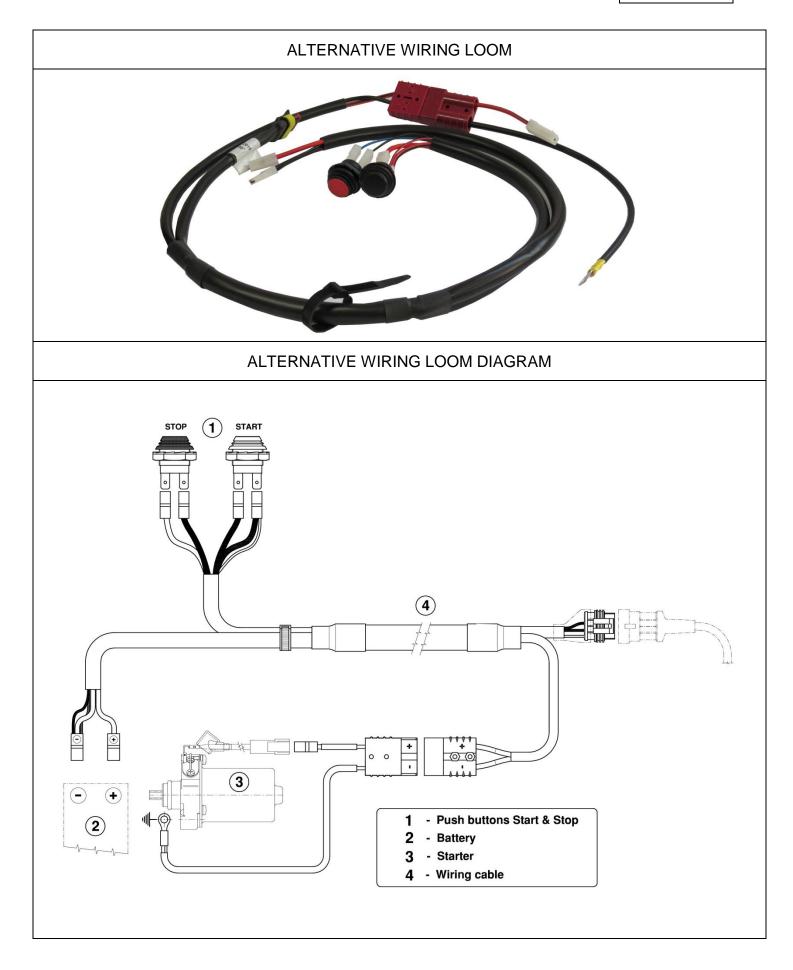




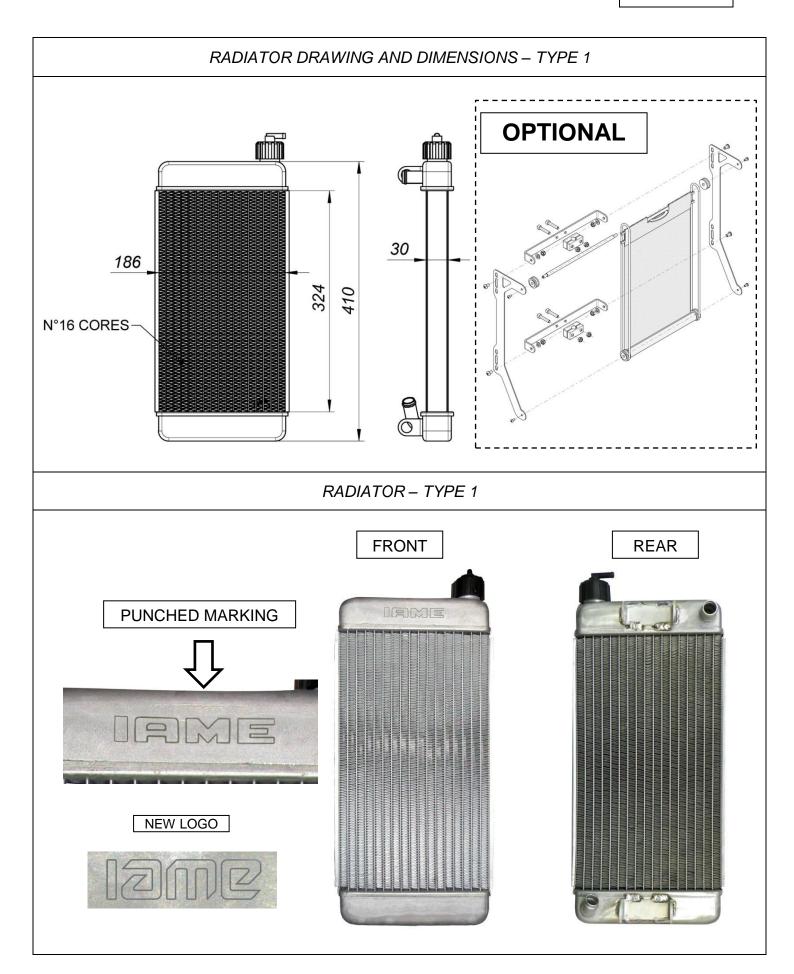




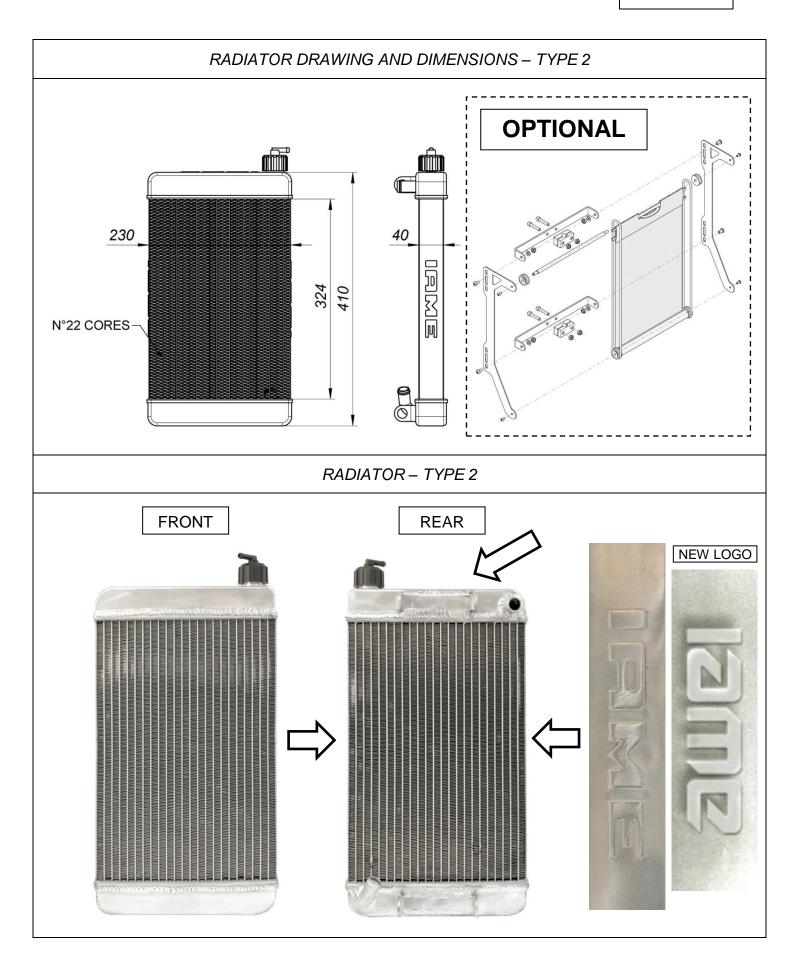










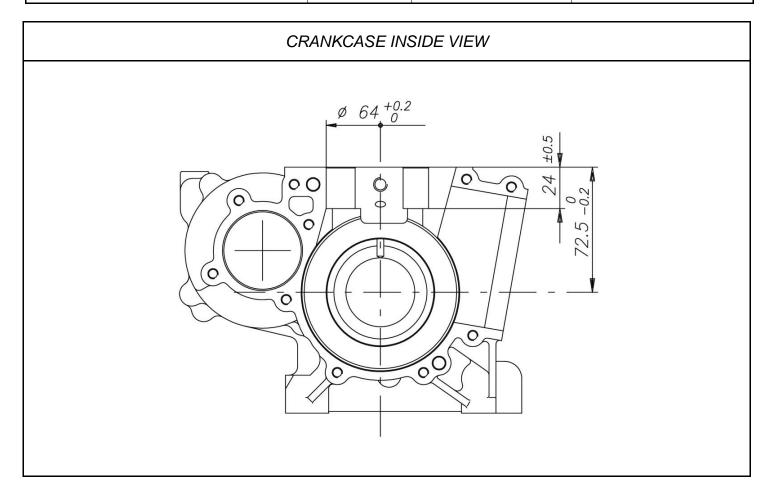




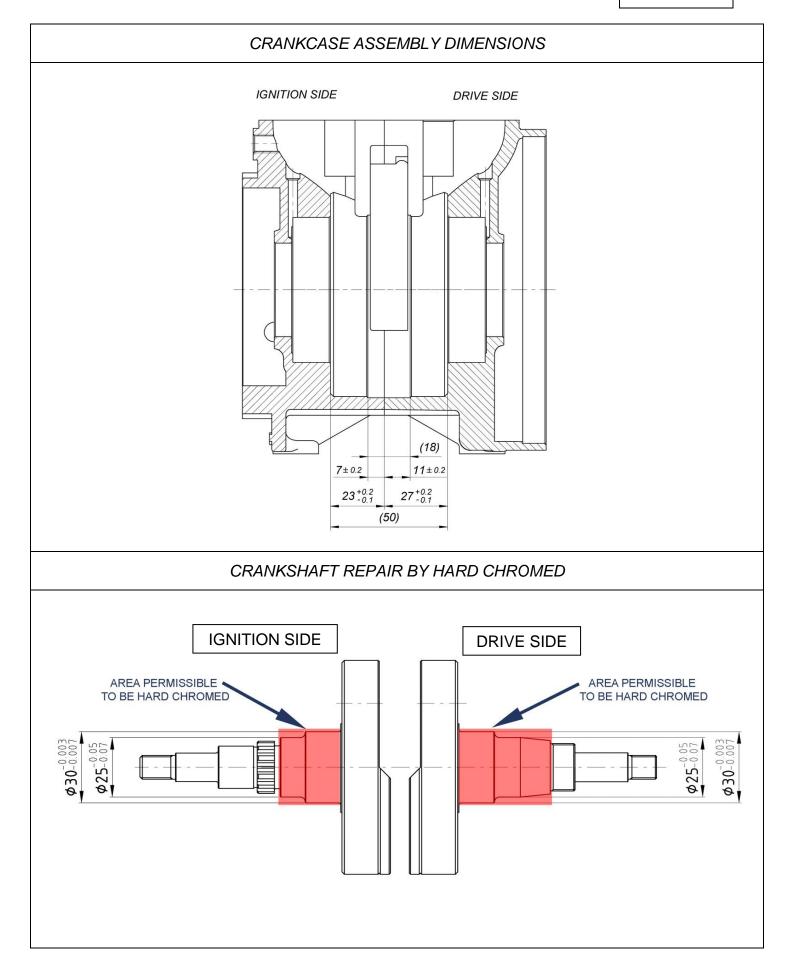
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ADDITIONAL INFORMATION, DRAWING AND PHOTO IDENTIFICATION

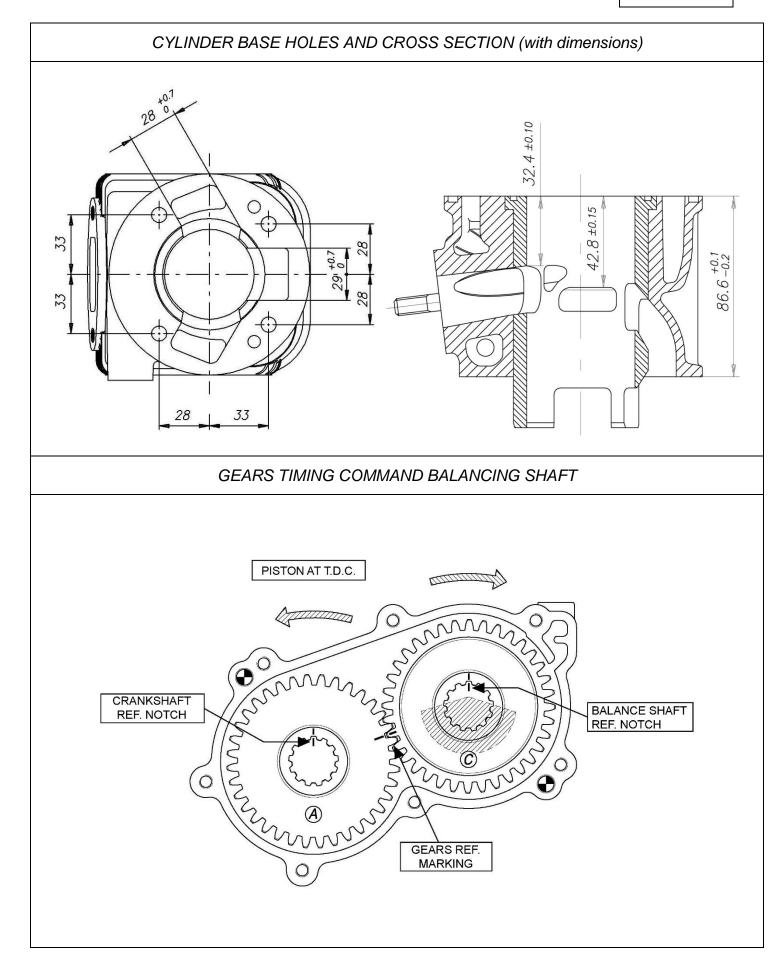
| ADDITIONAL TECHNICAL INFORMATION | | | | |
|------------------------------------|----------|-------------|--------------------|--|
| DESCRIPTION | QUANTITY | MATERIAL | NOTES / DIMENSIONS | |
| Piston Rings | 1 | Iron | - | |
| Balancing shaft | 1 | Steel | - | |
| Exhaust muffler | 1 | Sheet-steel | - | |
| Gears | - | Steel | - | |
| Starter Ring | 1 | Steel | - | |
| Big end conrod bearing diameters | 1 | - | 20x26x15 | |
| Crankshaft bearing diameters | 2 | - | 30x62x16 | |
| Small end conrod bearing diameters | 1 | - | 14x18x17.5 | |
| Cooling System | - | - | Water | |
| Inlet System | - | - | Reed Valve | |
| Combustion chamber shape | - | - | Spherical | |
| Centrifugal Clutch | - | - | Yes | |
| Electric Starter | - | - | Yes | |



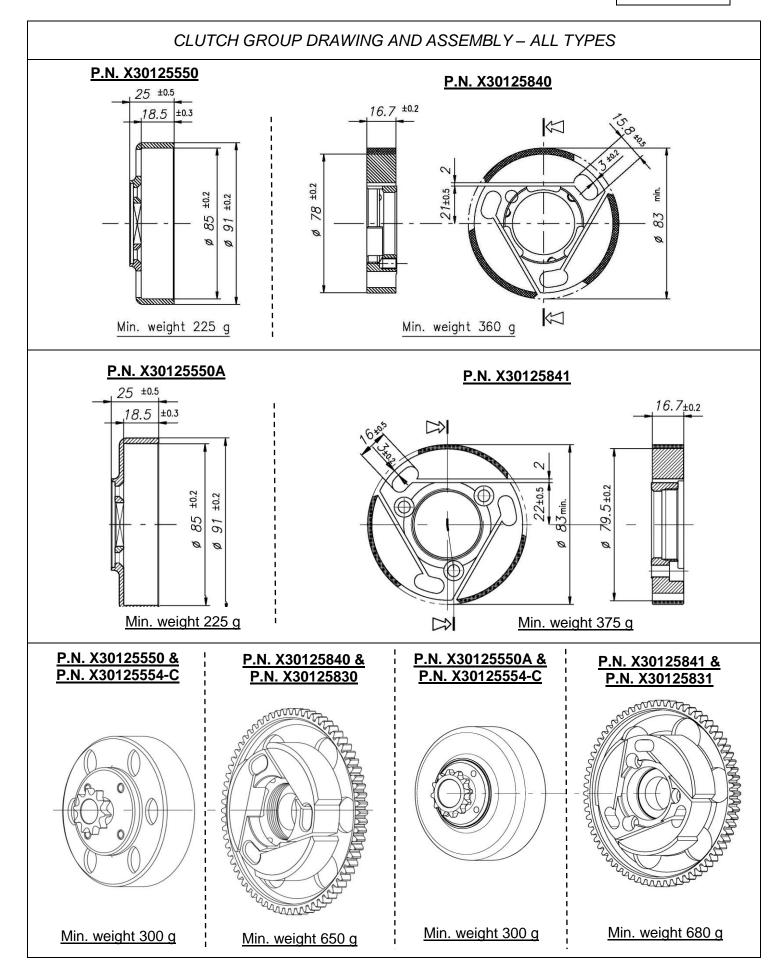




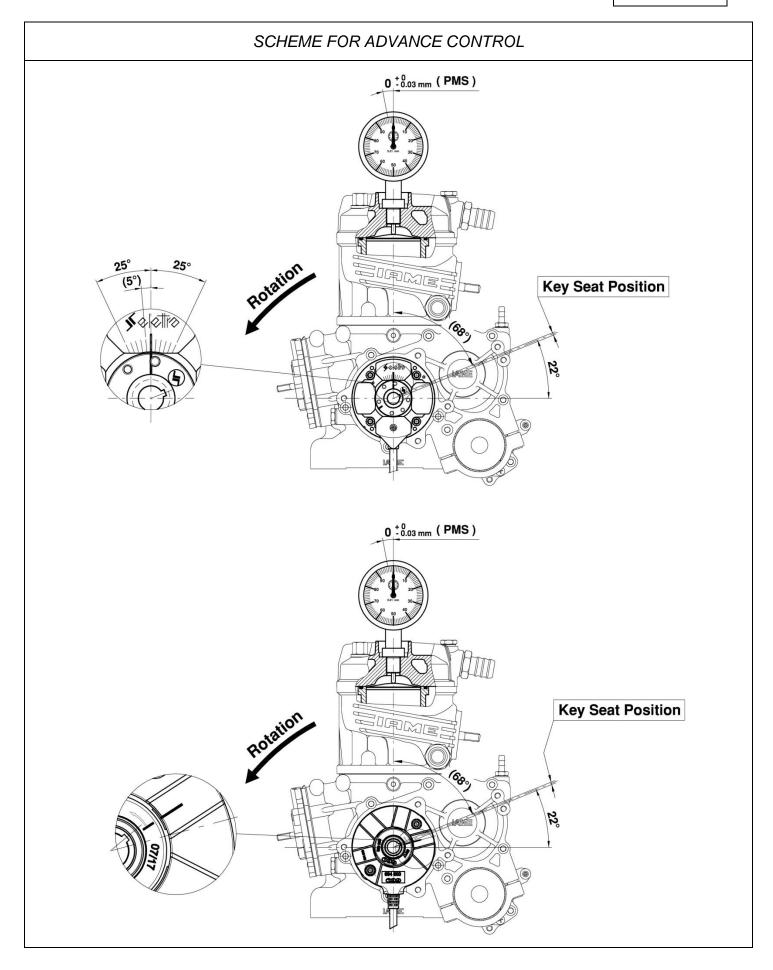














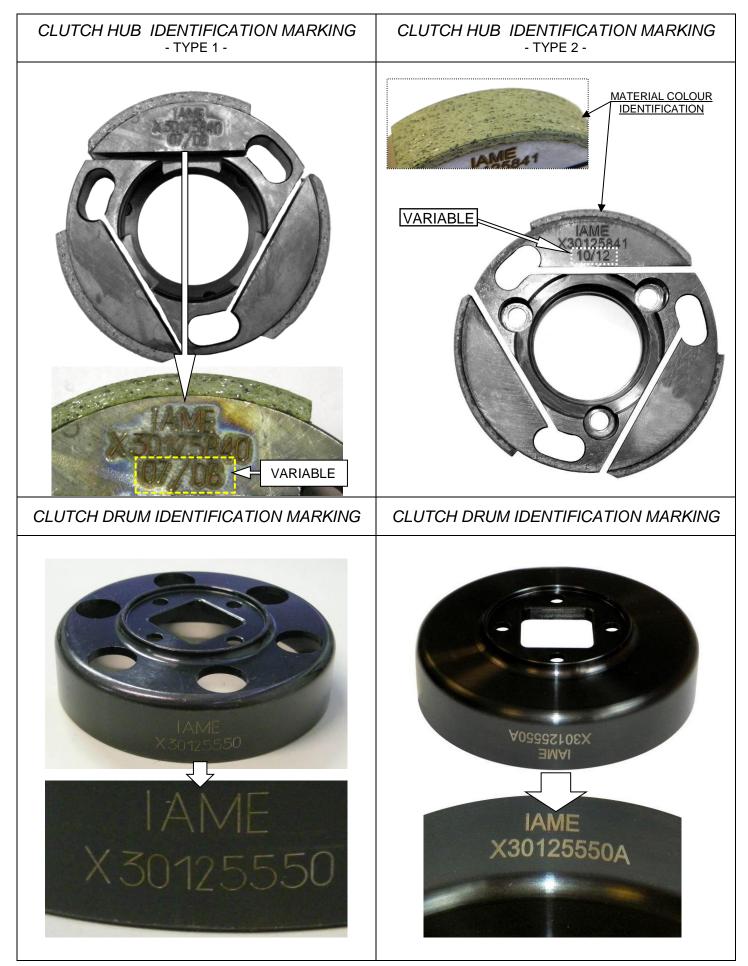
PISTON IDENTIFICATION MARKING 54.00V VARIABLE <u>ALTERNATIVE</u> AMESUD **7** VARIABLE



CRANKSHAFT IDENTIFICATION MARKING VARIABLE X 3012 VARIABLE DRIVE GEAR FOR BALANCE SHAFT STARTER IDENTIFICATION MARKING **IDENTIFICATION MARKING** IAME X30125755B NNN IAME 05/08 VARIABLE ALTERNATIVE MARKING/ MARQUAGE: X300125755 IAME 05/ X300125755A X300125755B VARIABLE



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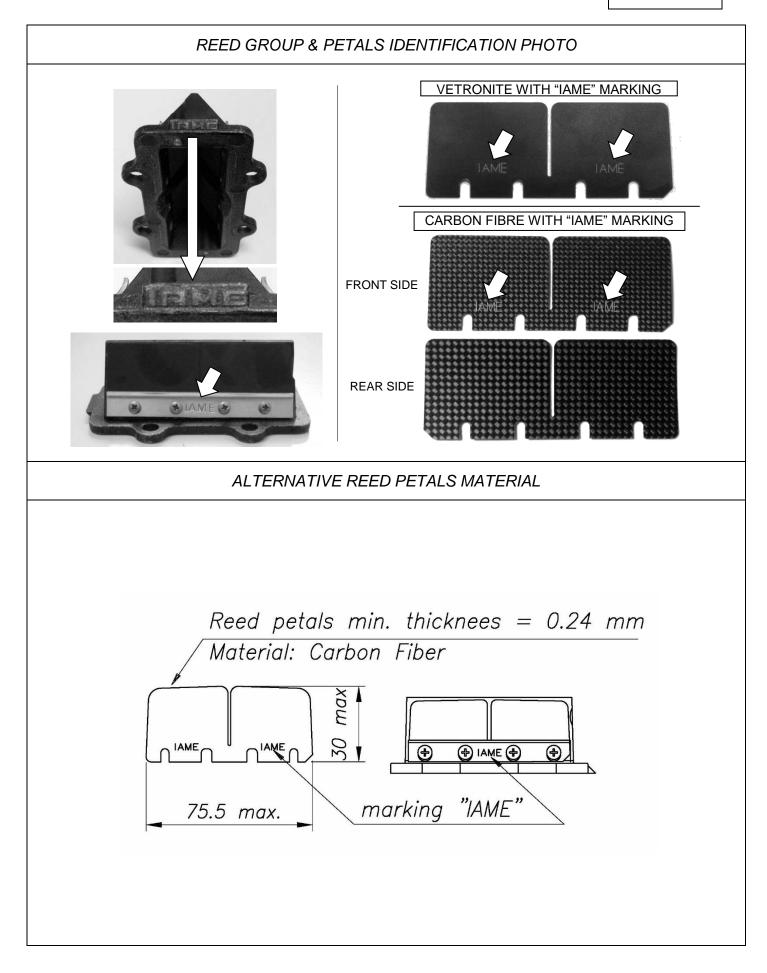


Homologation N °

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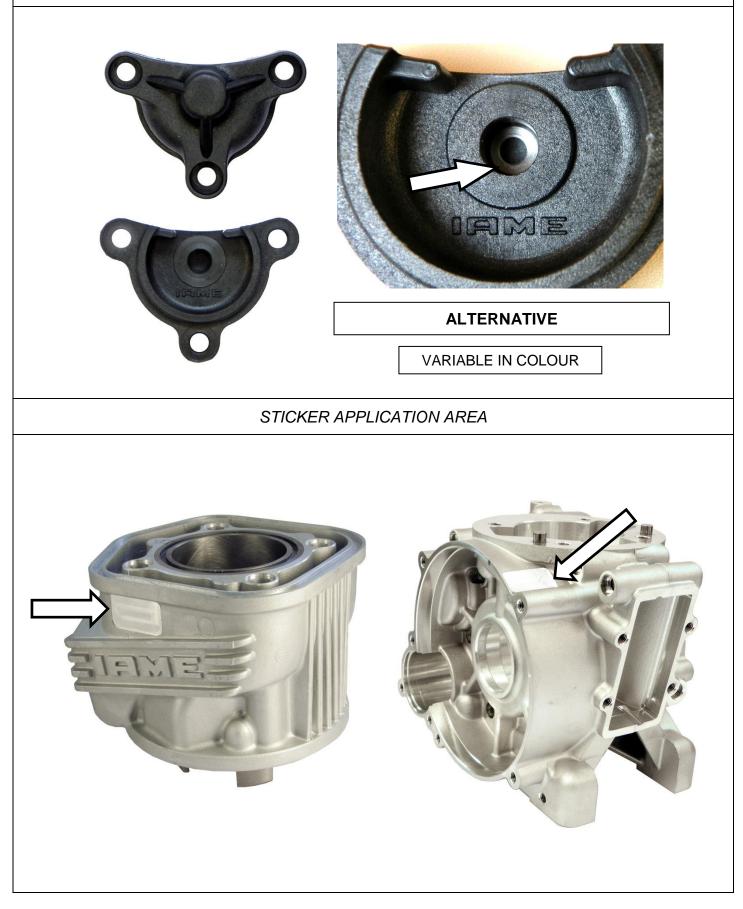




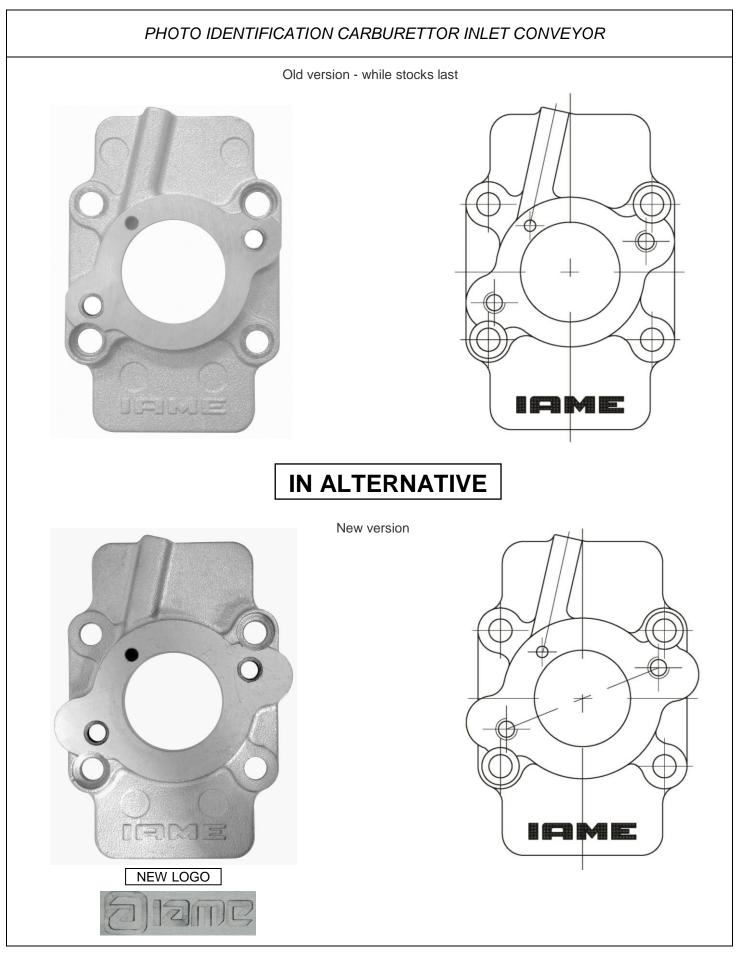




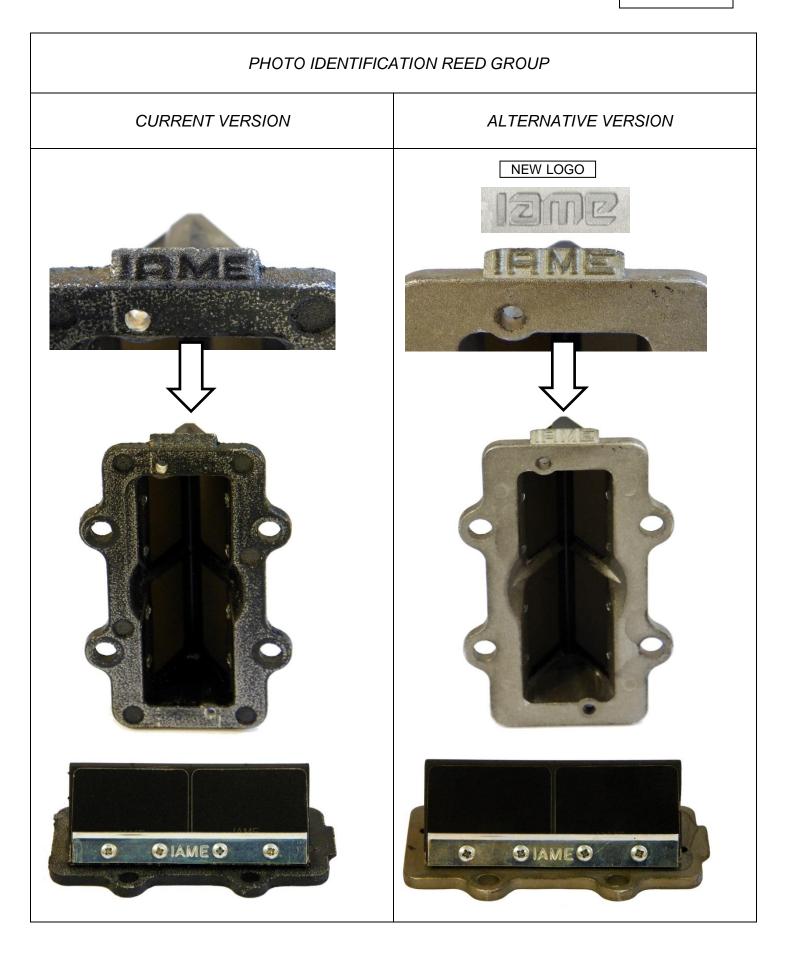
BENDIX COVER IDENTIFICATION MARKING





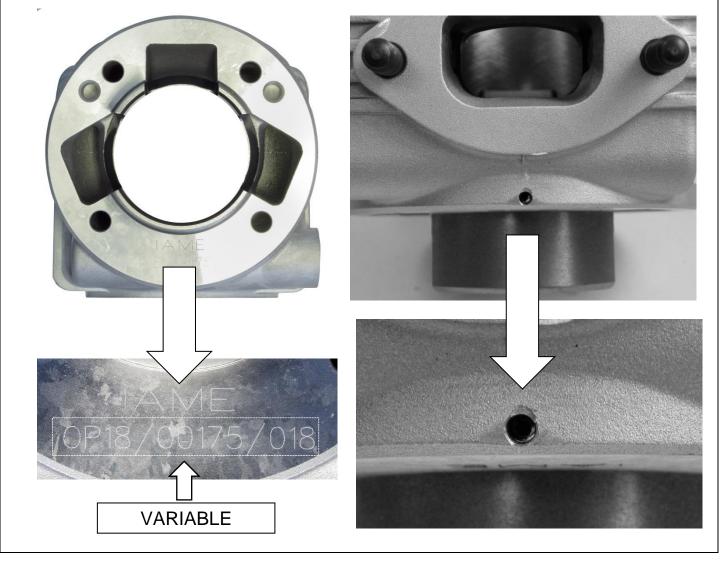








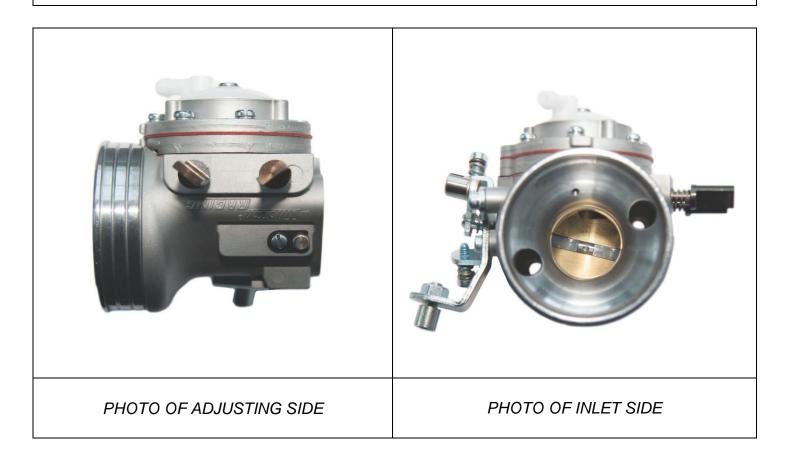
CYLINDER IDENTIFICATION MARKING (since 2014)





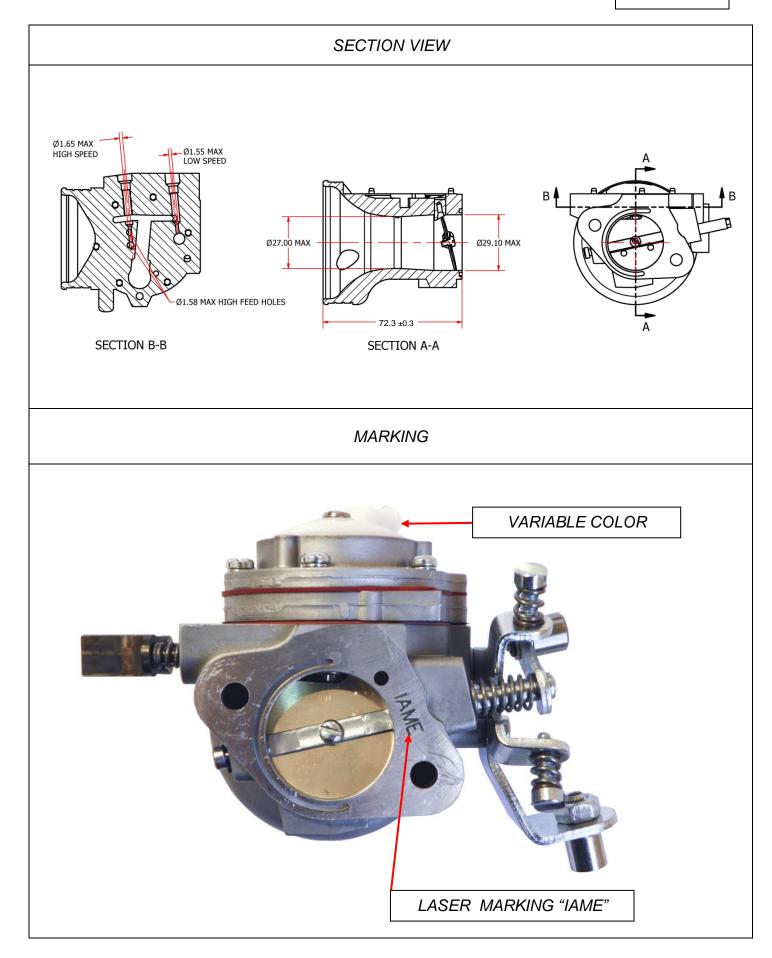


CARBURETTOR - Tillotson HW-27A



| Manufacturer | TILLOTSON LTD. |
|--------------|----------------|
| Make | TILLOTSON |
| Model | HW-27A |







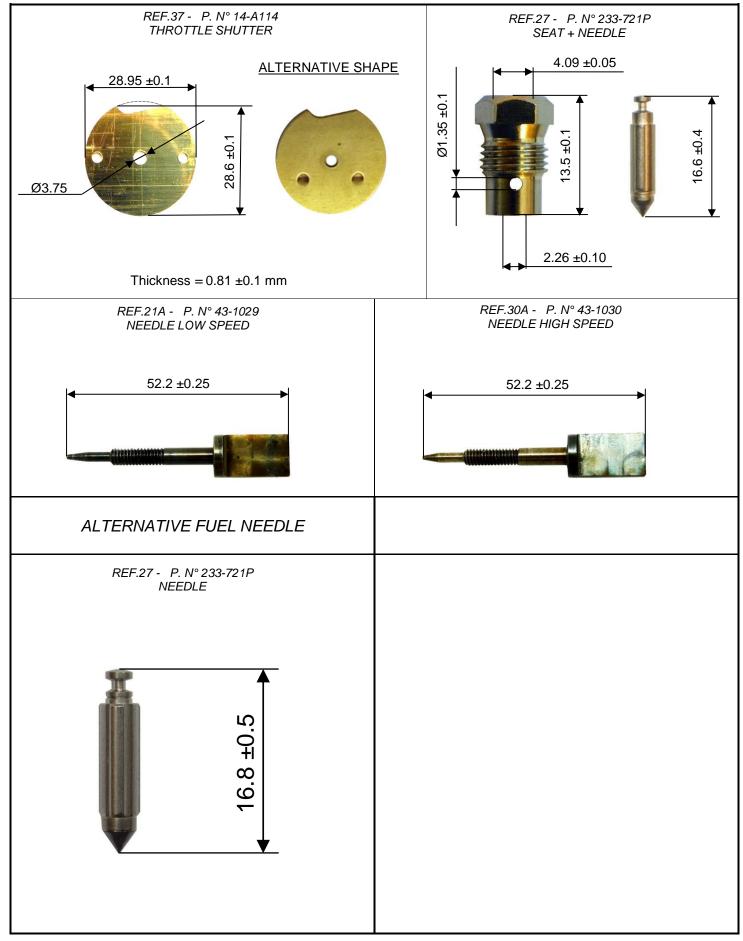
| CARBURETTOR DESCRIPTION AND SKETCH OF PARTS | | | | |
|--|---|--|--|--|
| HW-27A | ITEM PART NO: DESCRIPTION QTY 9 ** 16-B406 DIAPHRAGM GASKET (ORANGE) 1 10 ** 237-600 DIAPHRAGM 1 11 91A-275 DIAPHRAGM COVER 1 13 ** 16-B407 FUEL PUMP GASKET (ORANGE) 1 14 ** 237-162 FUEL PUMP GASKET (ORANGE) 1 16 15C-51 FUEL PUMP BODY SCREW 6 17 95 - 170 FUEL STRAINER SCREEN 1 18 ** 16-B205 FUEL STRAINER COVER GASKET 1 19 91-A251 FUEL STRAINER COVER GASKET 1 21A 43-1029 IDLE MIXTURE SCREW 1 21B 24-B449 IDLE MIXTURE SCREW PACKING 1 21C 78A-256 IDLE MIXTURE SCREW PACKING 1 21D 44-361 IDLE MIXTURE SCREW 1 26A 32-79 FULCRUM LEVER PIN 1 21D 74-333.0 IDLE MIXTURE SCREW 1 26A 15-B329 FULCRUM LEVER | | | |
| | 55 136-562 CABLE BRACKET RETAINING SCREW 1 56 15-C67 CABLE BRACKET RETAINING SCREW 2 57 15-C9 LIMITER SCREW 2 58 24-B131 LIMITER SPRING 2 60 81-377 CARBURETTOR MOUNTING NUT 2 60 81-377 CARBURETTOR MOUNTING NUT 2 60 81-377 CARBURETTOR MOUNTING NUT 2 03-310 DG-3HW DIAPHRAGM & GASKET (STANDARD) 2 233-721P INLET NEEDLE & SEAT SET * * INDICATES CONTENTS OF REPAIR KIT * INDICATES CONTENTS OF DIAPHRAGM & GASKET SET | | | |
| 36 (3) Clash Industrial Estate - Tralee - Ireland www.tillotson-racing.com | | | | |

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CARBURETTOR - TRYTON HB 27-C

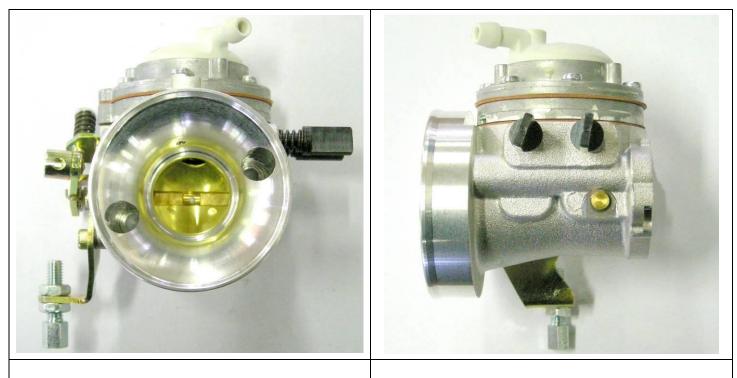


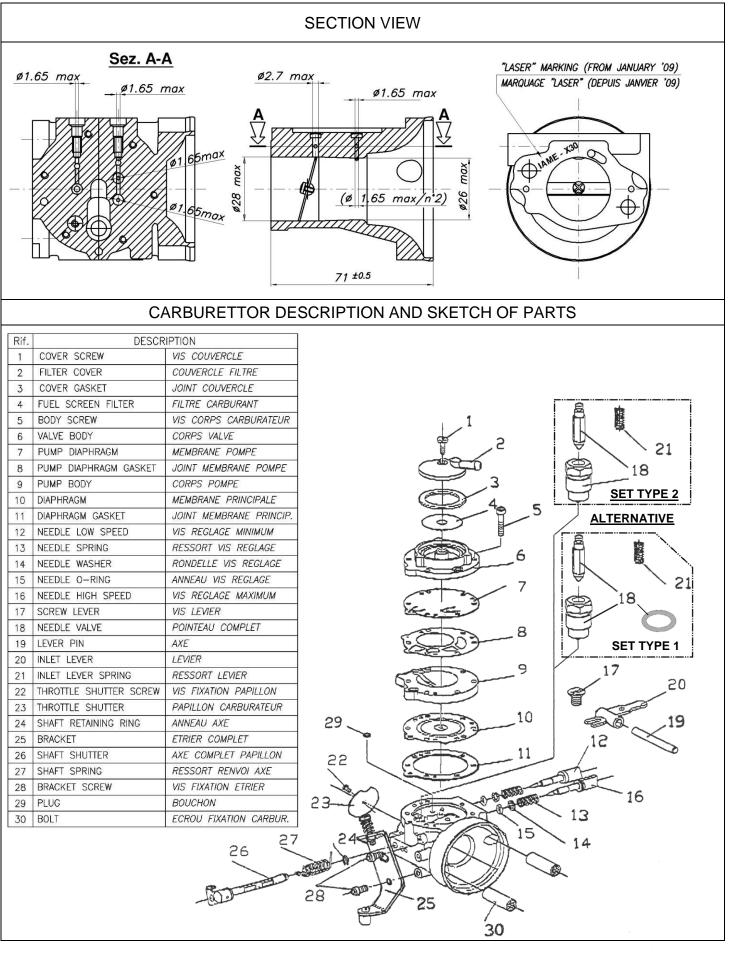
PHOTO OF INLET SIDE

PHOTO OF ADJUSTING SIDE

| Manufacturer | VA.MEC SRL |
|--------------|------------|
| Make | TRYTON |
| Model | HB 27-C |

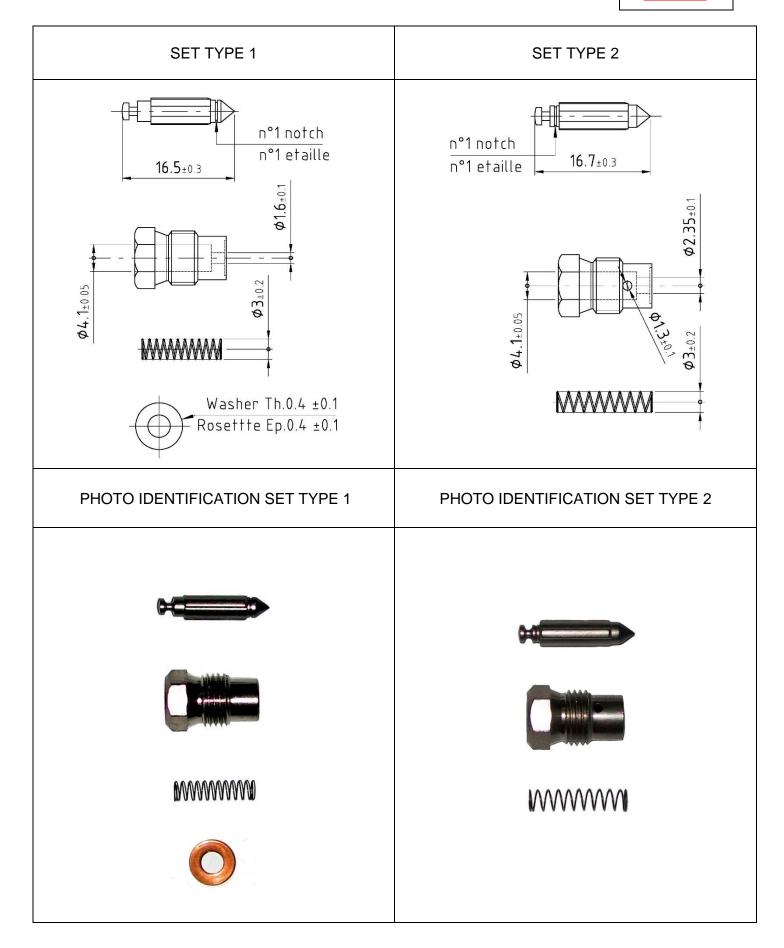


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Homologation N °





BRACKET CABLE & LIMITER

