



# NATIONAL HOMOLOGATION FORM

# KARTING ENGINE

X30 SUPER - TaG

Manufacturer IAME S.P.A - ZINGONIA

**Make** IAME

Model X30 SUPER - TAG

**Validity of the homologation** 6 years **Number of pages** 70

Most Recent Update 14 December 2021

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



PHOTO OF DRIVE SIDE OF ENGINE

PHOTO OF OPPOSITE SIDE OF ENGINE

Signature and stamp of Karting Australia



Updated 20 October 2020 14 December 2021 First Homologated 15 December 2017



Ashley Woolner

National Technical Commissioner



# PHOTO OF DRIVE SIDE OF THE COMPLETE ENGINE







### PHOTO OF OPPOSITE DRIVE SIDE OF THE COMPLETE ENGINE







### PHOTO OF THE REAR OF THE COMPLETE ENGINE





# PHOTO OF THE FRONT OF THE COMPLETE ENGINE





# PHOTO OF THE COMPLETE ENGINE TAKEN FROM ABOVE





# PHOTO OF THE COMPLETE ENGINE TAKEN FROM BELOW







# **TECHNICAL INFORMATION**

The number of decimal places must be 2 or comply with the relevant tolerance.	Tolerances & remarks	
Cylinder		
Volume of cylinder	174.46 cm <sup>3</sup>	<176.60 cm <sup>3</sup>
Original bore	63.90 mm	
Theoritical maximum bore	64.26 mm	
Original Stroke	54.40 mm	
Number of transfer ducts, cylinder/sump	5/3	
Number of exhaust ports / ducts	3/3	
Volume of the combustion chamber	14.2 cm <sup>3</sup>	minimum
Volume of the combustion chamber in the cylinder head	14.6 cm <sup>3</sup>	minimum
Crankshaft		
Number of bearings	2	
Diameter of bearings	30 mm	±0.1mm
Minimum weight of crankshaft	2045 g	minimum
All parts represented on page 16 photo		
Balance shaft		
Minimum weight of balance shaft (Type 1 / Type 2)	332 g / 320 g	minimum
Percentage of balancing	25 %	minimum
Connecting rod		
Connecting rod centreline	104 mm	±0.2mm
Diameter of big end	26 mm	±0.05mm
Diameter of small end	19 mm	±0.05mm
Min. weight of the connecting rod	117 g	minimum





Piston		
Number of piston rings	1	
Min. weight of the bare piston	155 g	minimum
Gudgeon pin		
Diameter	15 mm	±0.05mm
Length	49 mm	±0.15mm
Minimum weight	34.0 g	Minimum
Clutch		
Minimum weight	980 g	minimum
Of all the parts represented on the page 21 technical drawing		

В	OPENING ANGLES			
Of the	Of the inlet (main transfer ports) 125° ±2°			
Of the	Of the inlet (secondary transfer ports, for 5 transfer ducts engine) 128° ±2°			
Of the	e inlet (5 <sup>th</sup> transfer duct engine)	124.5°	±3°	
Of the exhaust		186°	±2°	
Of the	e boosters	182°	±2°	

C MATERIA	L
Cylinder head	ALUMINIUM
Cylinder	ALUMINIUM
Cylinder wall	CAST IRON
Sump	ALUMINIUM
Crankshaft	STEEL
Connecting rod	STEEL
Piston	ALUMINIUM



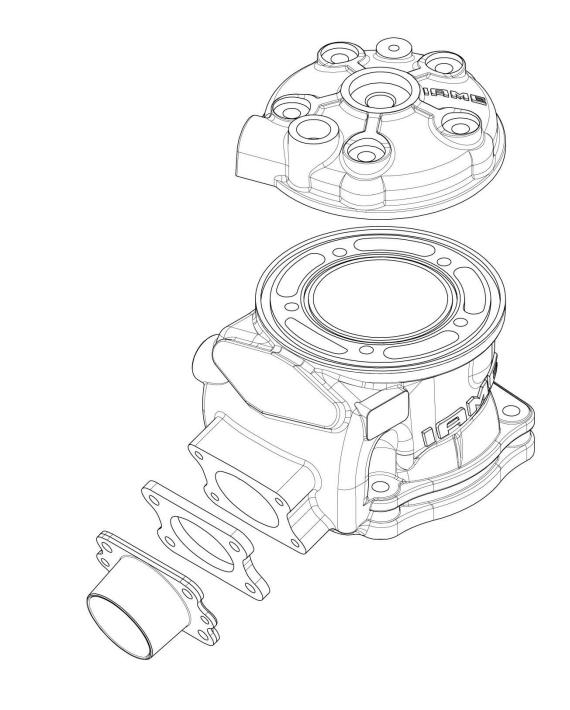


D

### PHOTOS, DRAWINGS & GRAPHS

#### **D.1 CYLINDER UNIT**

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



Without screws or gaskets.

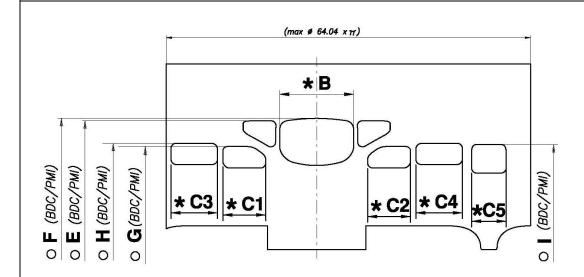
The aim of the exploded drawings is to identify the principles, the functioning and the whole mechanical unit



... Section D.1



# DRAWING OF THE CYLINDER DEVELOPMENT



В	≤ 40.5 mm
C1 = C2	≤ 25 mm
C3 = C4	≤ 27 mm
C5	≤ 20.5 mm
E	182.0° ±2°
F	186.0° ±2°
G	125° ±2°
Н	128° ±2°
Ī	124.5° ±2°

#### \*CHORDAL READING

#### O ANGULAR READING BY INSERTING A 0.2x5 mm GAUGE

#### Indicate on the drawing:

B1/B2 = minimum thickness of the inlet (transferts) ribs.

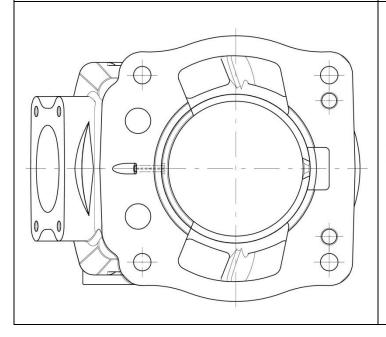
A1/A2/A... = maximum inlet width measured at the chord.

E1/E2 = minimum thickness of the exhaust rib (if existing).

C1/C2/C... = maximum exhaust width measured at the chord.

### DRAWING OF THE CYLINDER BASE without dimensions

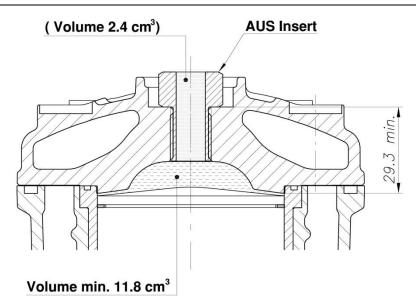
#### PHOTO OF THE CYLINDER BASE





#### ... Section D.1

#### DRAWING OF THE CYLINDER HEAD AND OF THE COMBUSTION CHAMBER without dimensions



COMBUSTION CHAMBER VOLUME TOT. = 14.2 cm<sup>3</sup> min.

ATT.: SQUISH MIN. = 0.85 mm (measured with Ø2.0mm TIN)

#### PHOTO OF THE CYLINDER HEAD

# PHOTO OF THE COMBUSTION CHAMBER IN THE CYLINDER HEAD



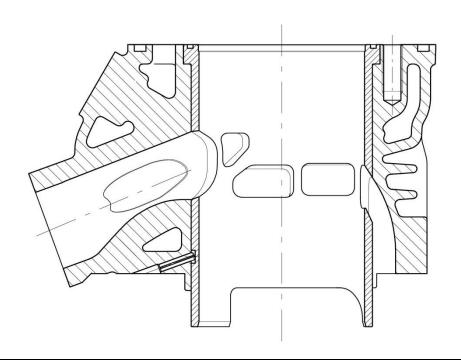






... Section D.1

### VERTICAL CROSS SECTION VIEW OF CYLINDER WITH LINER, without dimensions



### PHOTO OF THE CYLINDER FROM ABOVE

### PHOTO OF THE CYLINDER FROM RH SIDE







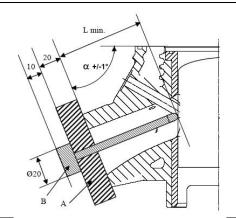
#### ... Section D.1

TRANSFER DUCTS VOLUME			
Transfer position on 5-transfer cylinder	Transfer position on 3-transfer cylinder	TRANSFER No.	VOLUME in cm³
	LH 1 (RH 1	Transfer No. 1 LH	+/- 5 %
LH 2 RH 2 RH 2		Transfer No. 2 LH	+/- 5 %
		Transfer No. 3 or 5	+/- 8 %
		Transfer No. 2 RH	+/- 5 %
	Transfer No. 1 RH	+/- 5 %	

EXHAUST DUCT LENGTH	
ANGLE $\alpha$ in $^{\circ}$	Minimum <i>in</i> mm
° +/-1°	mm

### The L min. dimension will be the result of the value taken on the reference engine minus 5 mm.

#### Technical Drawing No.13



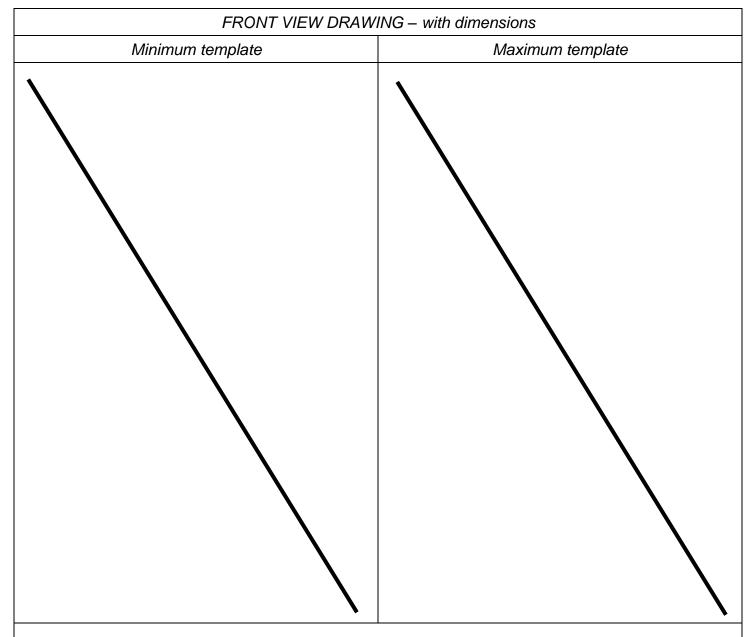
- A: Centring guide centred in relation to the exhaust duct by the exhaust manifold fixation screws, with a total thickness of 20 +/- 0.05 mm and being drilled in its centre by a hole with a 5 mm diameter, H7 bore.
- B: Control gauge composed of a shaft with a 5g6 diameter having a 2.5 mm radius at its end and a length = L min + 20+10.





### INTERNAL PROFILE OF THE EXHAUST DUCT

Templates of the internal dimensions of the exhaust duct: gasket plane of the manifold.



- Maximum template: internal profile of the gasket plane of the manifold of the original cylinder plus 1 mm
- Minimum template: internal profile of the gasket plane of the manifold of the original cylinder minus 1 mm
- Thickness: 5 +/- 0,05 mm



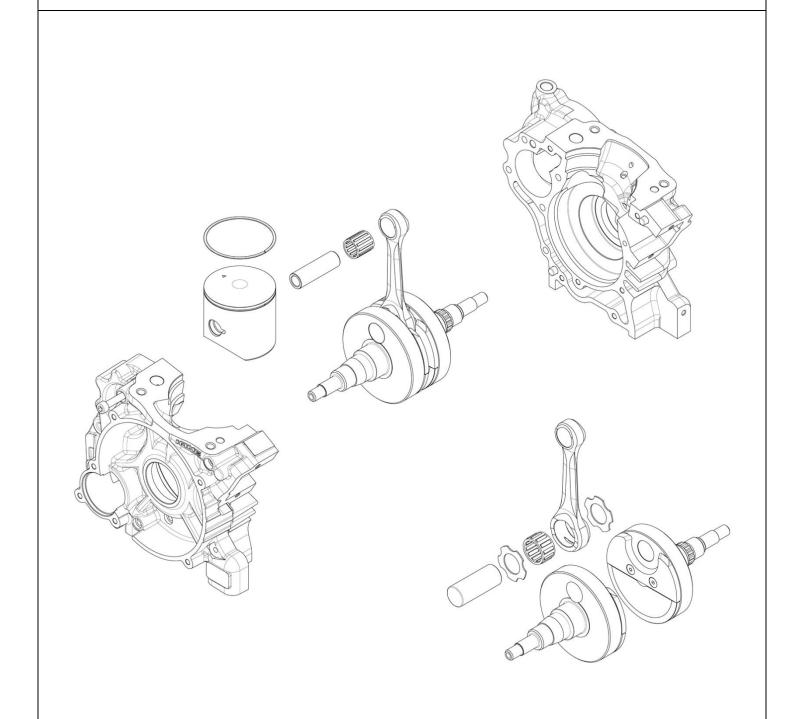
Technical Drawing No.13 bis





### D.2 CONROD, CRANKCASE, CRANKSHAFT & PISTON

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



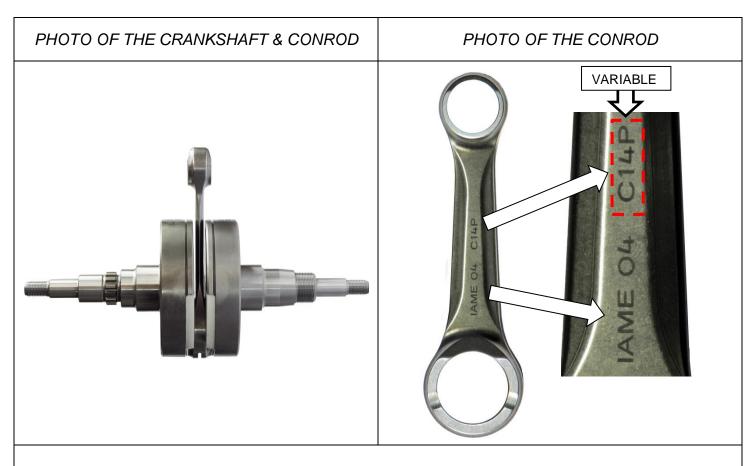
Without screws or gaskets.

The aim of the exploded drawings is to identify the principles, the functioning and the whole mechanical unit

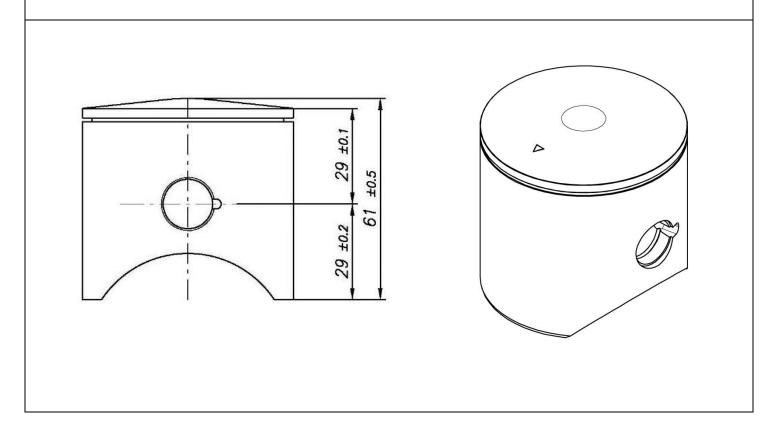




### ...Section D.2



# DRAWING OF THE PISTON (MAIN DIMENSIONS incl. tolerances)



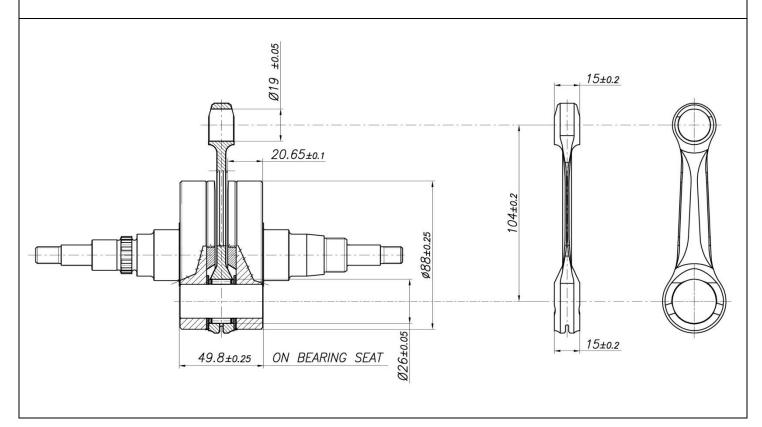


#### ...Section D.2

#### PHOTO IDENTIFICATION OF SILVER CONROD WASHER - TYPES ALTERNATIVE



DRAWING OF THE CRANKSHAFT - CON ROD UNIT (DIMENSIONS incl. tolerances, big & small ends thickness, crank mass thickness & diameter)





### PHOTO OF THE INSIDE OF THE RH CRANKCASE



# PHOTO OF THE INSIDE OF THE LH CRANKCASE

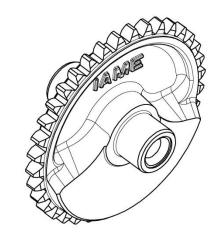






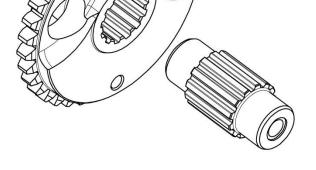
# D.3 BALANCE SHAFT

#### EXPLODED DRAWING OF THE BALANCE SHAFT



TYPE 2

TYPE 1

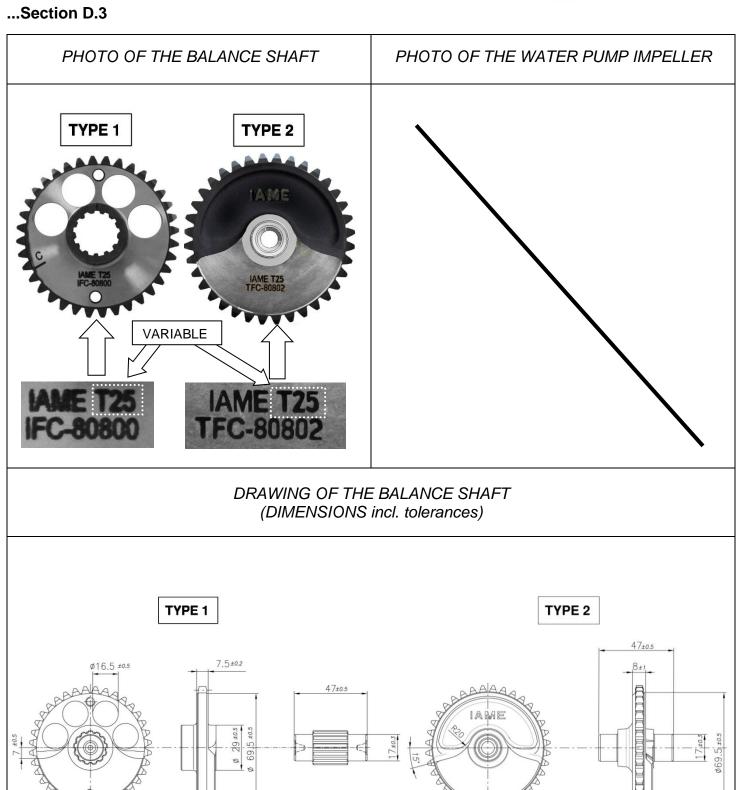


Without screws or gaskets.

The aim of the exploded drawings is to identify the principles, the functioning and the whole mechanical unit







13±0.5

Tot. Min. weight 320 g Poids min. tot. 320 g

12±0.5

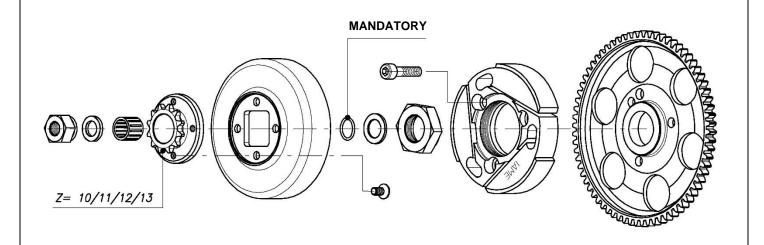
Tot. Min. weight 332 g Poids min. tot. 332 g



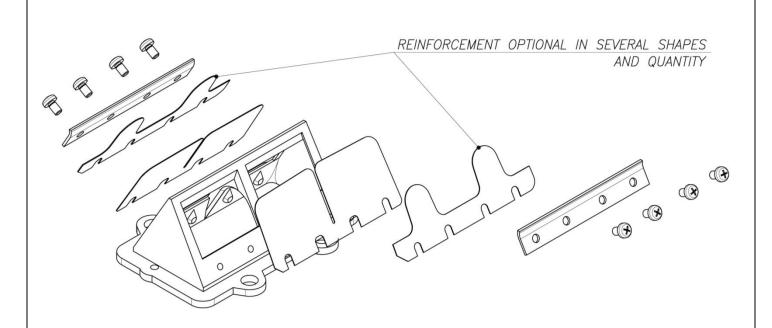


### D.4 REED VALVE & CLUTCH

### TECHNICAL DRAWING (exploded view) OF THE CLUTCH ASSEMBLY



# TECHNICAL DRAWING (exploded view) OF THE REED VALVE



The aim of the exploded drawings is to identify the principles, the functioning and the whole mechanical unit

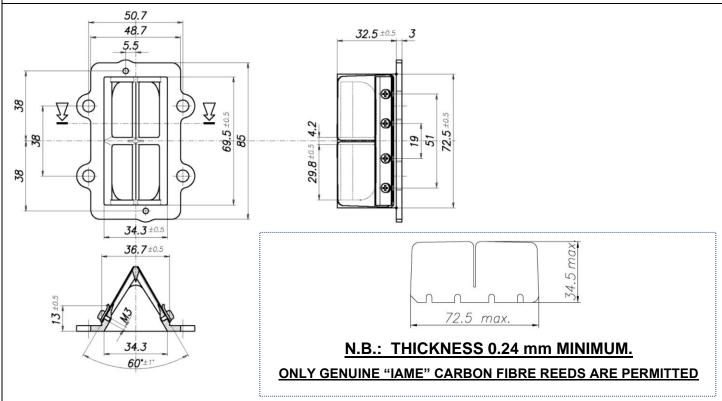




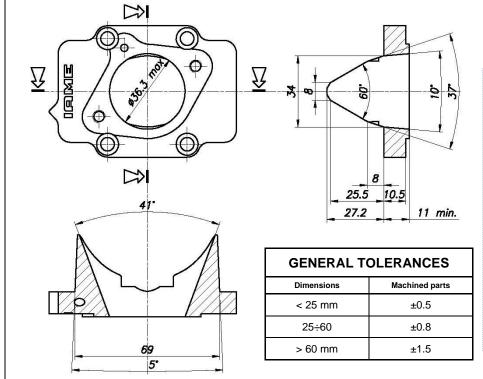
118H

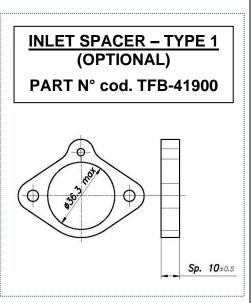
#### ... Section D.4

# DRAWING OF THE REED VALVE (DIMENSIONS incl. tolerances)



## DRAWING OF THE REED VALVE COVER - TYPE 1 (only basic engine with Tillotson HB-10A)

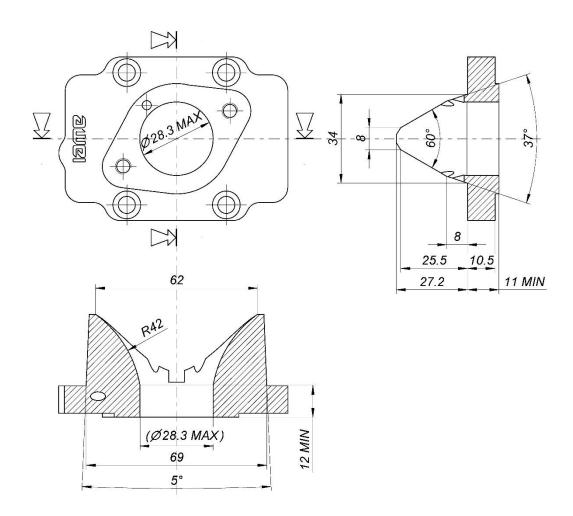








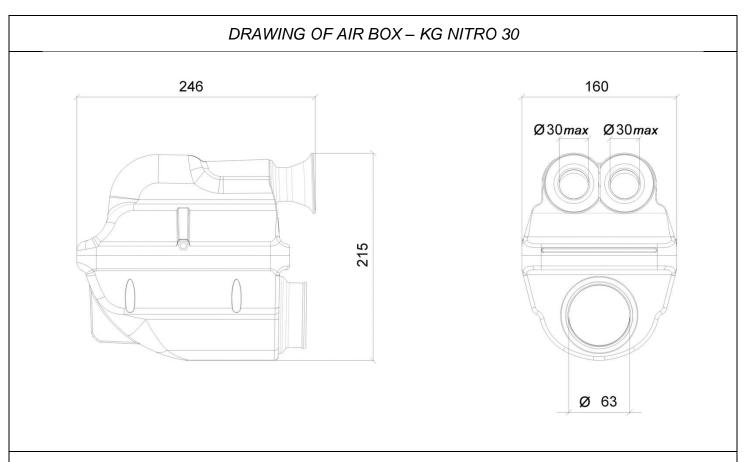
### DRAWING OF THE REED VALVE COVER – TYPE 2 (Only basic engine with Tillotson HW-22B)



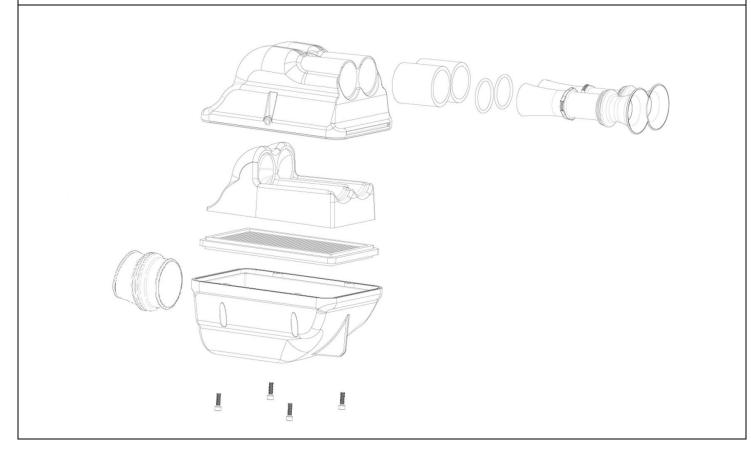
GENERAL TOLERANCES		
Dimensions	Machined parts	
< 25 mm	±0.5	
25÷60	±0.8	
> 60 mm	±1.5	



# ... Section D.4



# EXPLODED VIEW OF AIR BOX - KG NITRO 30

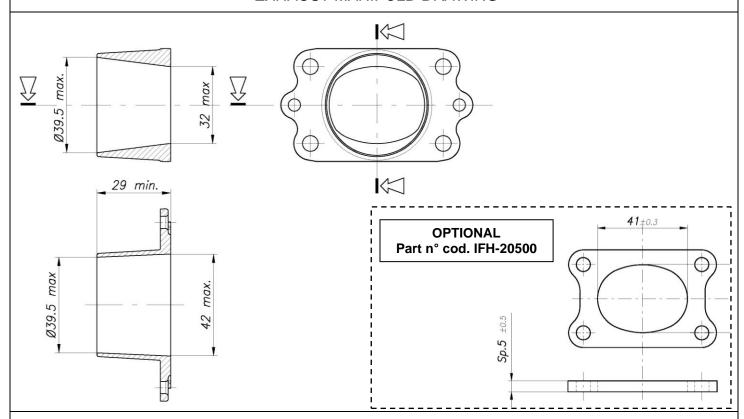




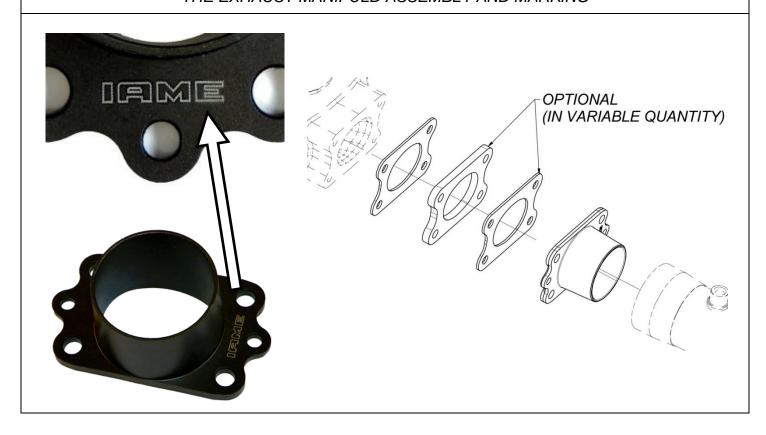


### D.5 EXHAUST SYSTEM

### EXHAUST MANIFOLD DRAWING



# THE EXHAUST MANIFOLD ASSEMBLY AND MARKING

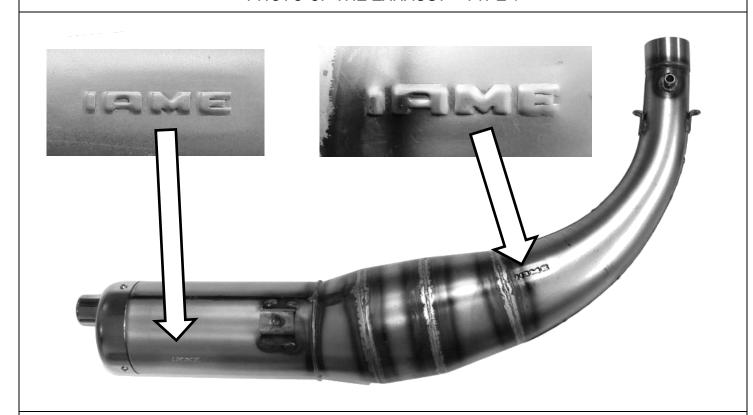




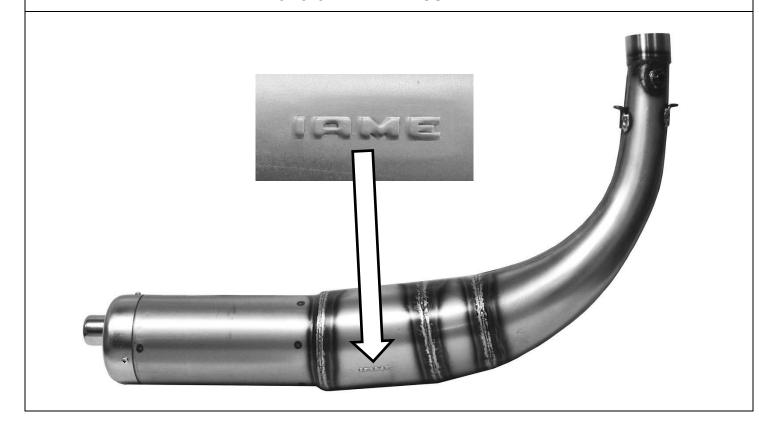


# D.5 EXHAUST SYSTEM

# PHOTO OF THE EXHAUST – TYPE 1



# PHOTO OF THE EXHAUST – TYPE 2





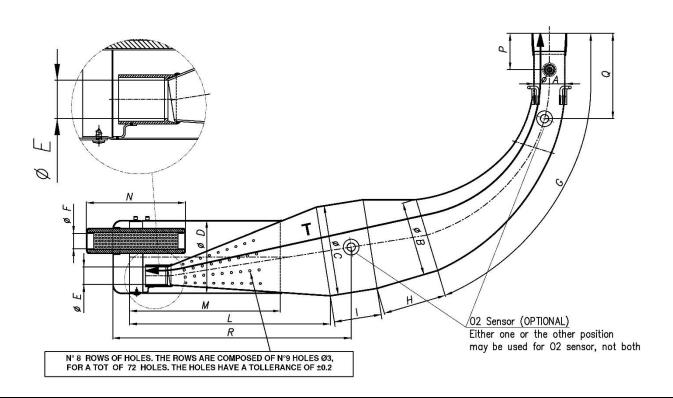


#### ... Section D.5

TECHNICAL DESCRIPTIONS OF THE EXHAUST (Art. 8.9.3 of HR) – TYPE 1		
Weight in g	<u>2070</u>	Minimum
Volume in cc	<u>4770</u>	+/-5 %

#### **TECHNICAL DRAWING - TYPE 1**

It must include all the information necessary to build this exhaust.



ØA:  $\underline{44,0 \pm 1 \text{ ext.}}$  ØD:  $\underline{100 \pm 1 \text{ ext.}}$  G:  $\underline{397 \pm 5}$  L:  $\underline{275 \pm 5}$  P:  $\underline{50 \pm 10}$  T:  $700 \pm 5$ 

**ØB:**  $\underline{102,0 \pm 1 \text{ ext.}}$  **ØE:**  $\underline{24,5 \pm 1 \text{ int.}}$  **H:**  $\underline{87 \pm 3}$  **M:**  $\underline{208 \pm 3}$  **Q:**  $\underline{120 \pm 10}$ 

ØC: 124,0 ±1 ext. ØF: 21 ±1 int. I: 65 ±3 N: 132 ±3 R: 320 ±10

Sheet steel thickness 0,9mm minimum

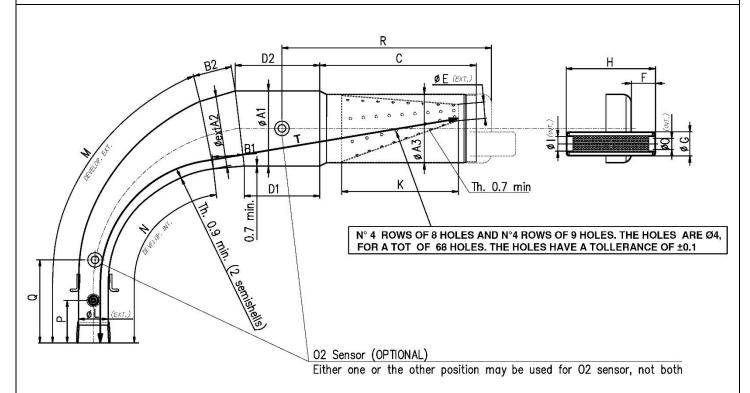


#### ... Section D.5

TECHNICAL DESCRIPTIONS OF THE EXHAUST (Art. 8.9.3 of HR) – TYPE 2			
Weight in g	<u>1775</u>	Minimum	
Volume in cc	<u>4460</u>	+/-5 %	

#### **TECHNICAL DRAWING - TYPE 2**

It must include all the information necessary to build this exhaust.



**A1**:  $\underline{110 \pm 1.5}$  **B1**:  $\underline{59 \pm 3}$  **D1**:  $\underline{105 \pm 3}$  **F**:  $\underline{36 \pm 2}$  **I**:  $\underline{21 \pm 1}$  **M**:  $\underline{435 \pm 3}$  **P**:  $\underline{50 \pm 10}$  **T**:  $\underline{705 \pm 5}$ 

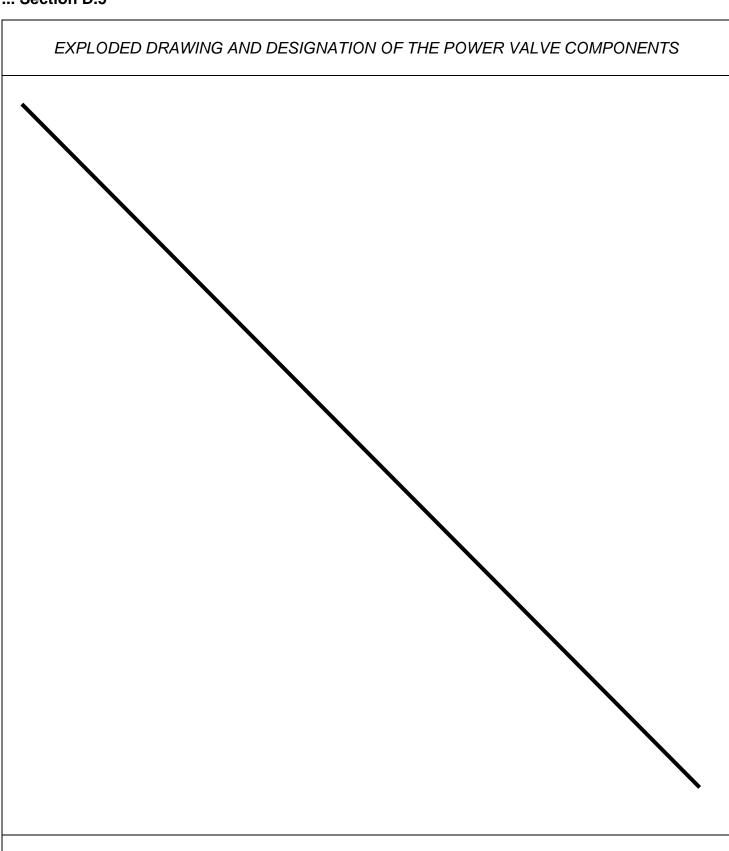
**A2:**  $\underline{102 \pm 1.5}$  **B2:**  $\underline{59 \pm 3}$  **D2:**  $\underline{125 \pm 3}$  **G:**  $\underline{35 \pm 1}$  **K:**  $\underline{170 \pm 3}$  **N:**  $\underline{340 \pm 3}$  **Q:**  $\underline{120 \pm 10}$ 

**A3**:  $\underline{100 \pm 1.5}$  **C**:  $\underline{219 \pm 3}$  **E**:  $\underline{23 \pm 2}$  **H**:  $\underline{132 \pm 2}$  **L**:  $\underline{42.5 \pm 1.5}$  **O**:  $\underline{21 \pm 1}$  **R**:  $\underline{300 \pm 10}$ 





### ... Section D.5



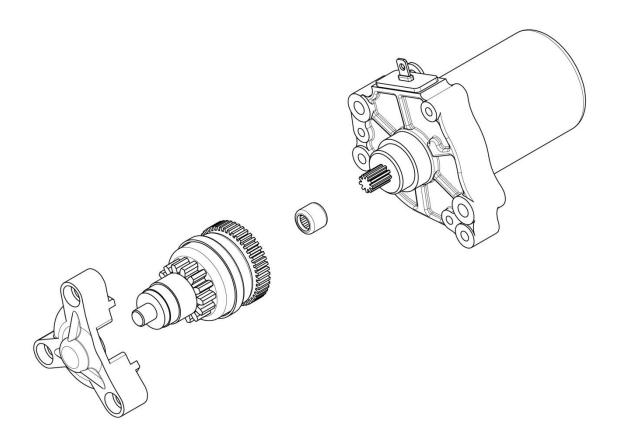
The aim of the exploded drawings is to identify the principles, the functioning and the whole mechanical unit





### D.6 STARTER

### EXPLODED DRAWING OF THE STARTING UNIT AND OF ITS HOUSING



Without screws or gaskets.

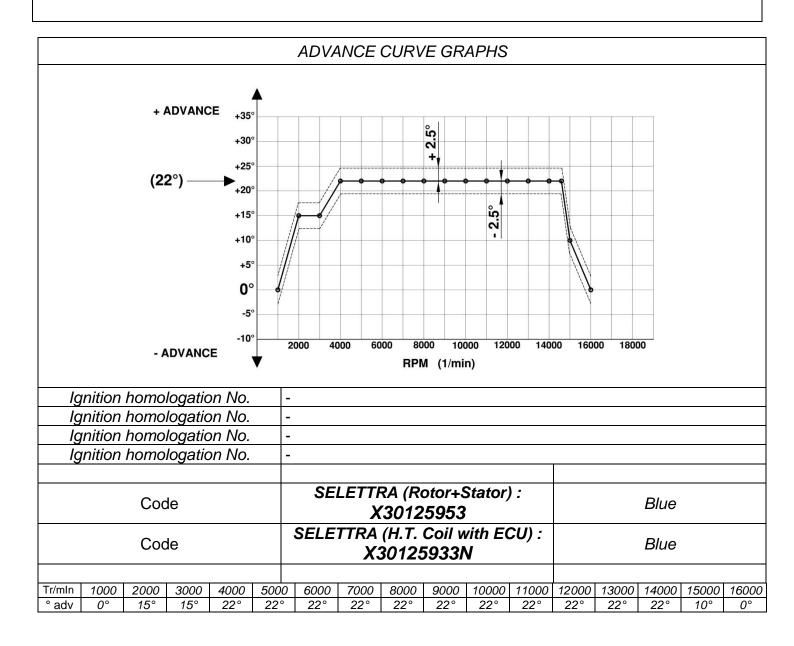
The aim of the exploded drawings is to identify the principles, the functioning and the whole mechanical unit





#### D.8 ELECTRICAL SYSTEM

#### **IGNITION SYSTEM**





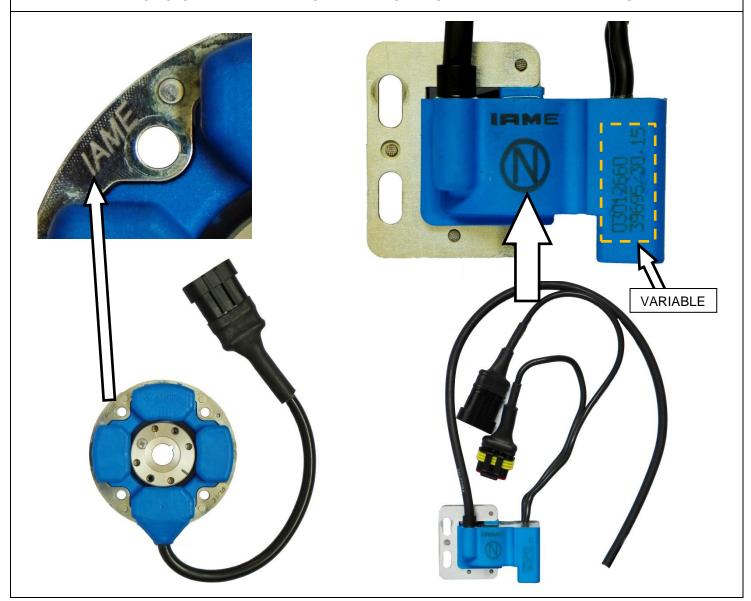
118H





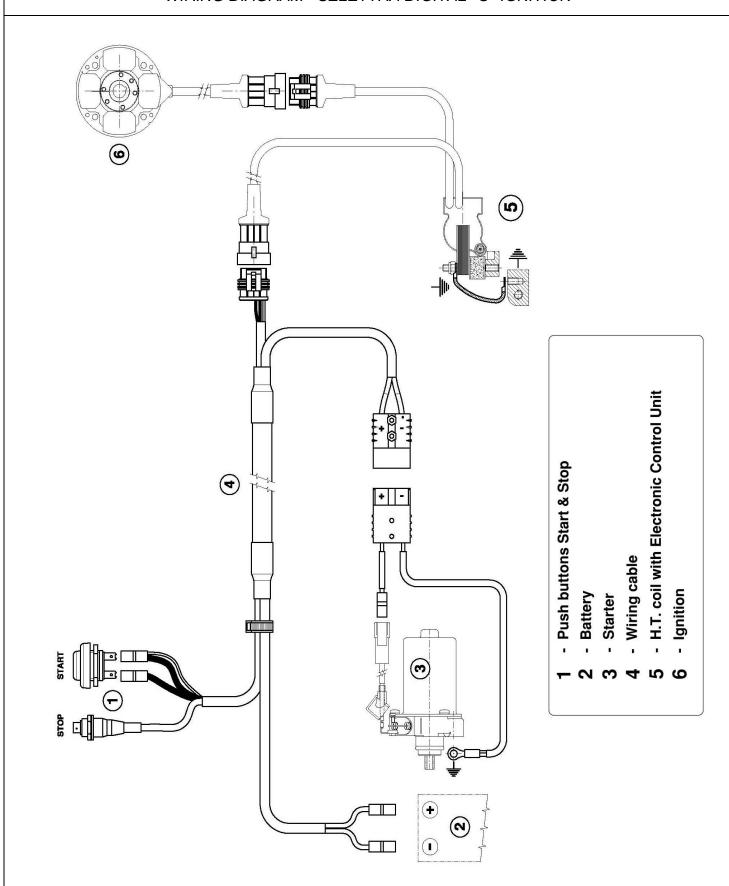


# PHOTO OF SELETTRA DIGITAL "S" IGNITION WITH "IAME" MARKING







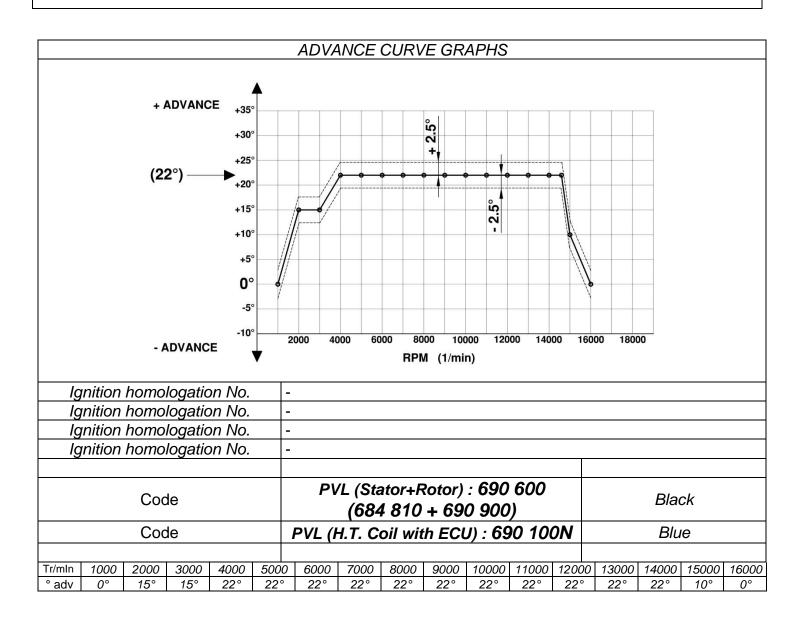






#### **ELECTRICAL SYSTEM**

#### ALTERNATIVE IGNITION SYSTEM





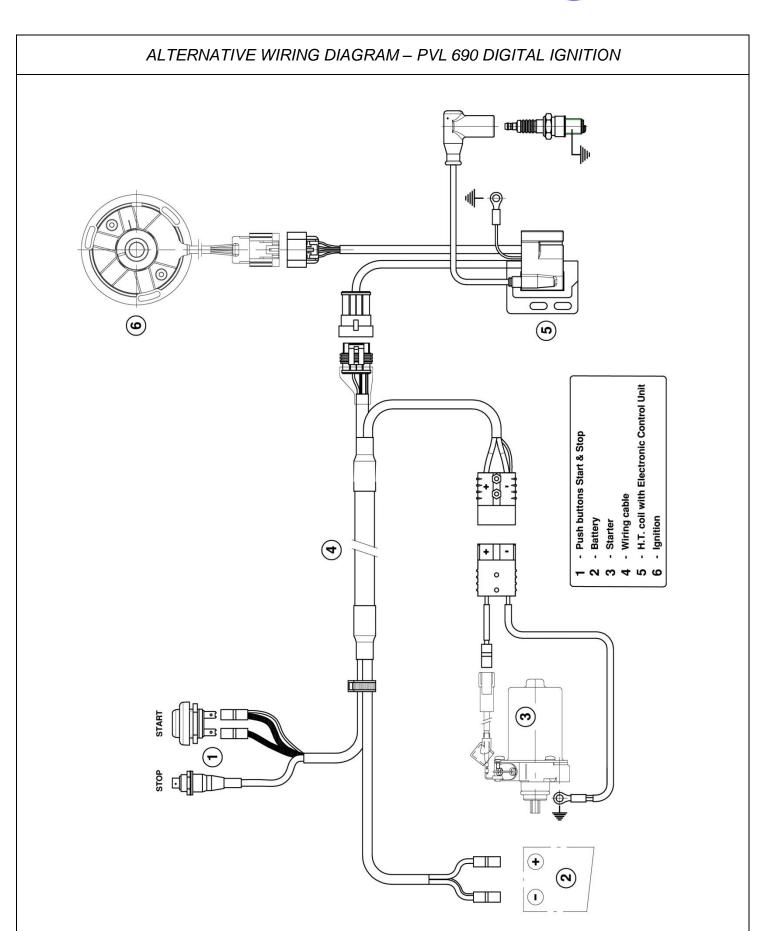


# PHOTO OF ALTERNATIVE DIGITAL IGNITION PVL 690, WITH IAME MARKING







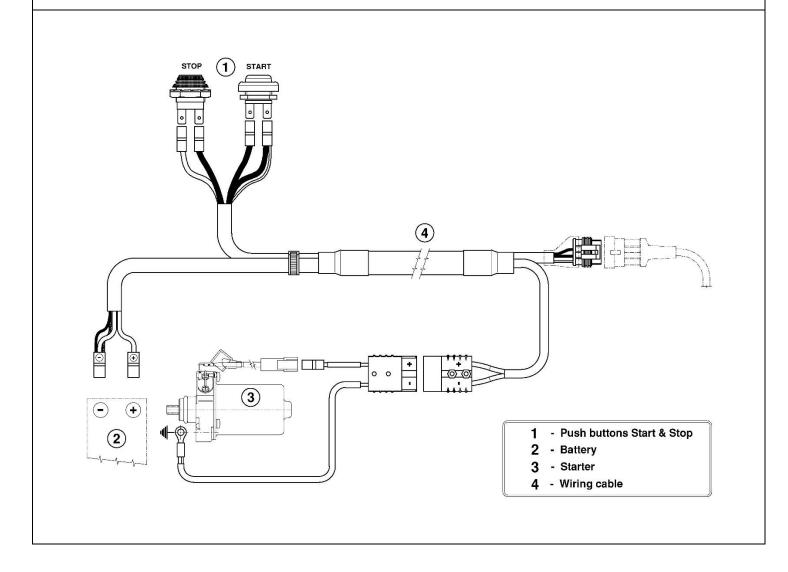




### ALTERNATIVE WIRING LOOM



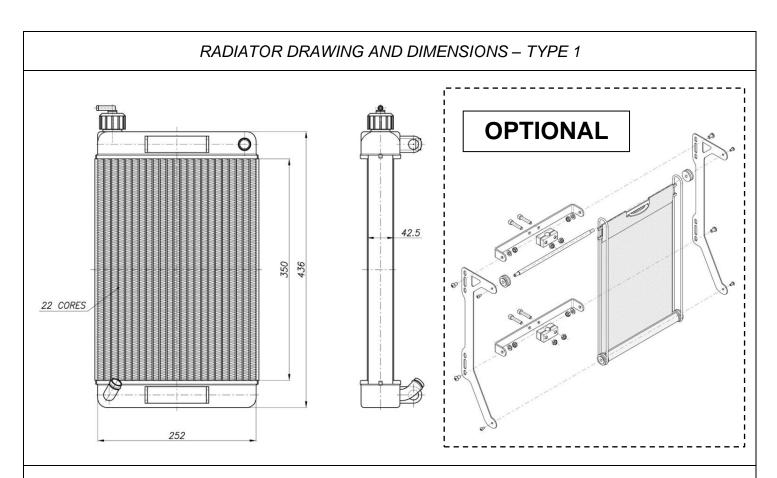
### ALTERNATIVE WIRING LOOM DIAGRAM



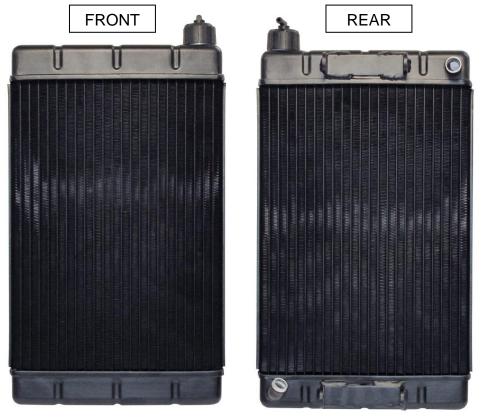








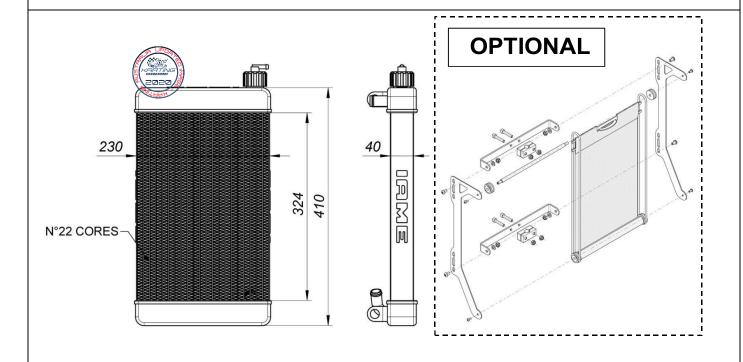
# **RADIATOR**



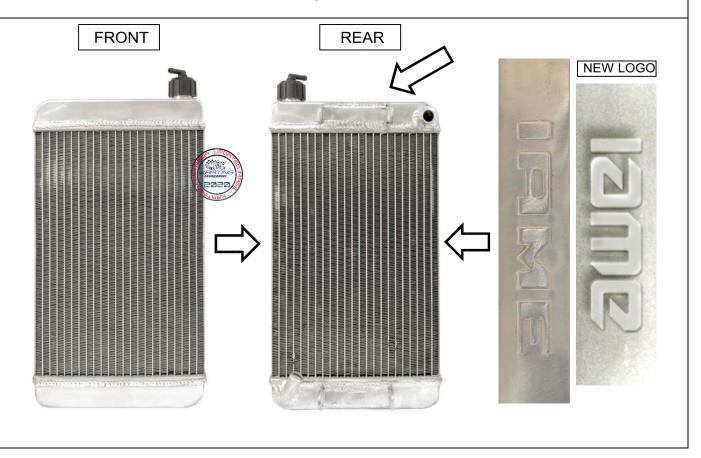




### RADIATOR DRAWING AND DIMENSIONS - TYPE 2



### RADIATOR - TYPE 2

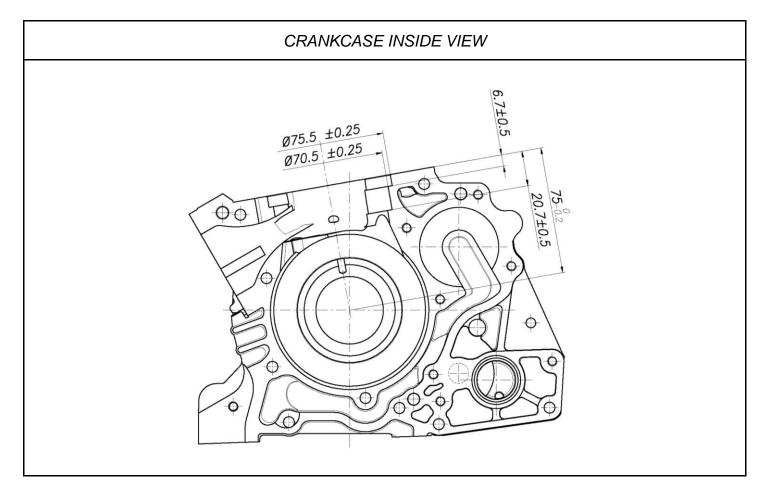






# **ADDITIONAL INFORMATION, DRAWING AND PHOTO IDENTIFICATION**

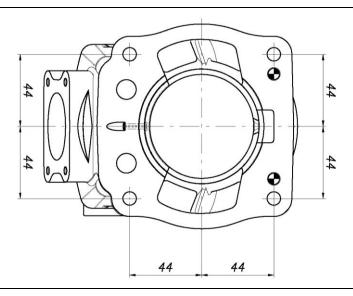
ADDITIONAL TECHNICAL INFORMATION					
DESCRIPTION	QUANTITY	MATERIAL	NOTES / DIMENSIONS		
Piston Rings	1	Iron	-		
Balancing shaft	1	Steel	-		
Exhaust muffler	1	Sheet-steel	-		
Gears	-	Steel	-		
Starter Ring	1	Steel	-		
Big end conrod bearing diameters	1	-	20x26x15		
Crankshaft bearing diameters	2	-	30x62x16		
Small end conrod bearing diameters	1	-	15x19x20		
Cooling System	-	-	Water		
Inlet System	-	-	Reed Valve		
Combustion chamber shape	-	-	Spherical		
Centrifugal Clutch	-	-	Yes		
Electric Starter	-	-	Yes		



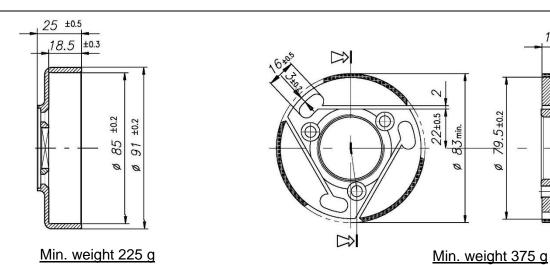


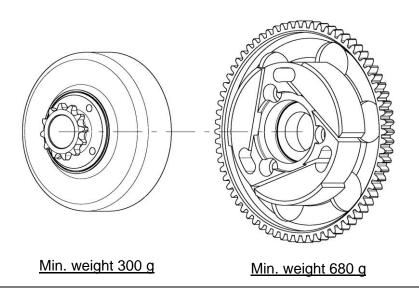
16.7±0.2

### CYLINDER BASE HOLES



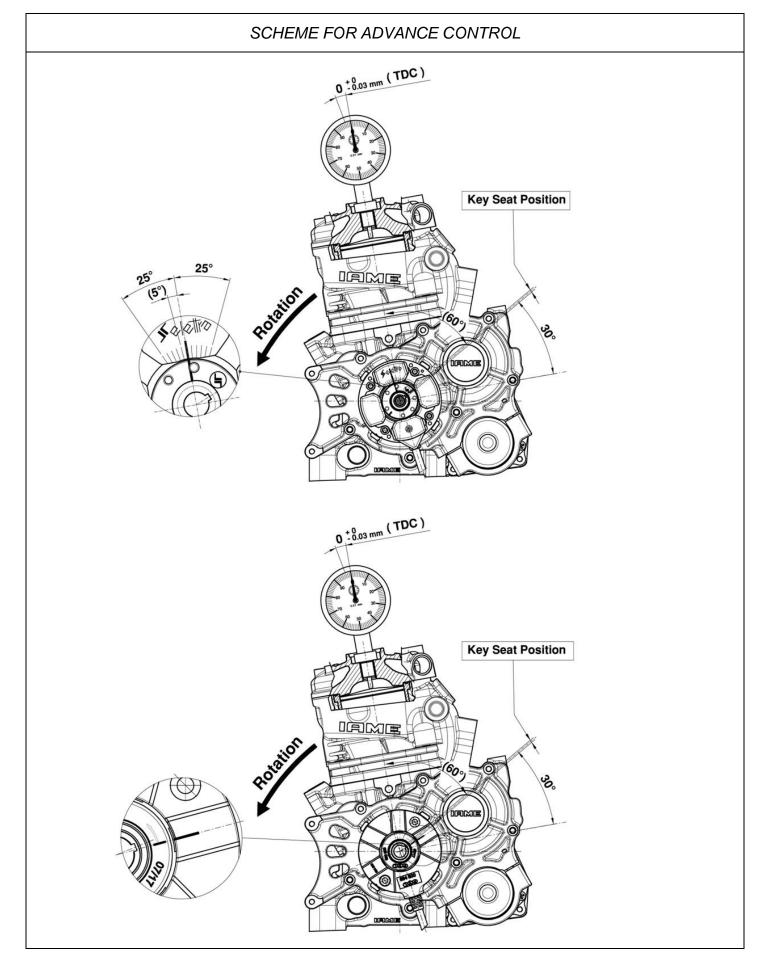
### CLUTCH GROUP DRAWING AND ASSEMBLY



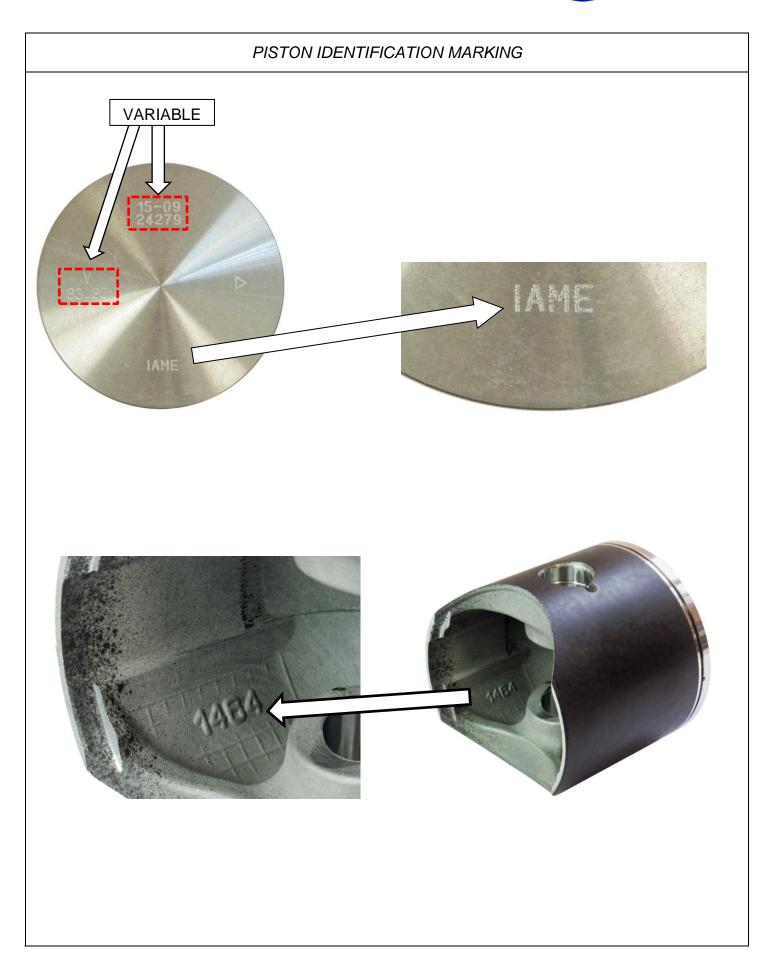






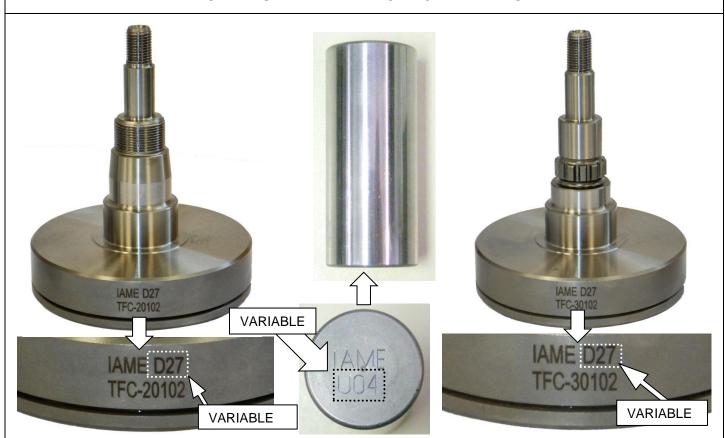












DRIVE GEAR FOR BALANCE SHAFT IDENTIFICATION MARKING

### STARTER IDENTIFICATION MARKING



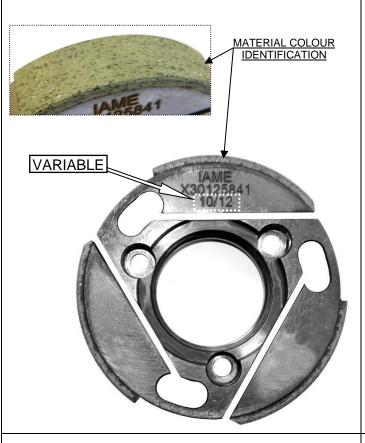


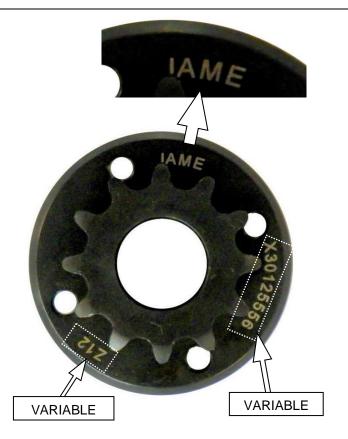




### CLUTCH HUB IDENTIFICATION MARKING

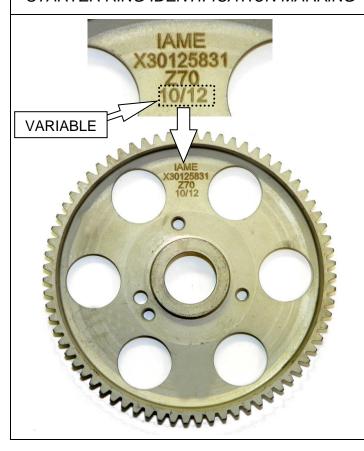
### SPROCKET IDENTIFICATION MARKING





### STARTER RING IDENTIFICATION MARKING

### CLUTCH DRUM IDENTIFICATION MARKING

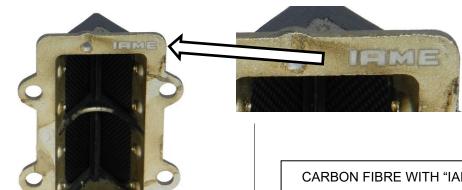








### REED GROUP & PETALS IDENTIFICATION PHOTO





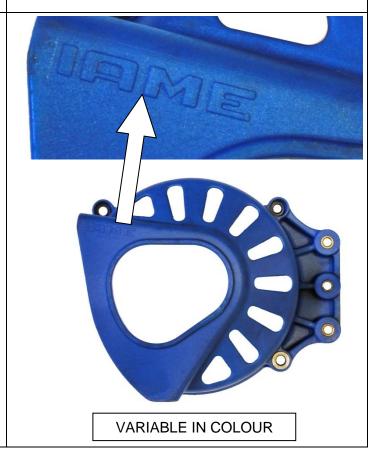
CARBON FIBRE WITH "IAME" MARKING



INLET CONVERYOR AND SPACER IDENTIFICATION MARKING

### CLUTCH COVER IDENTIFICATION MARKING

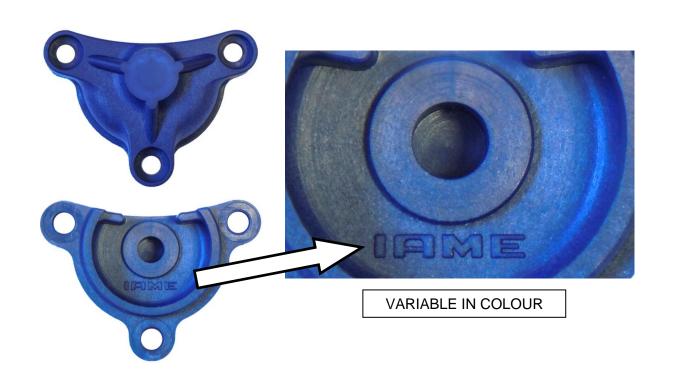








### BENDIX COVER IDENTIFICATION MARKING



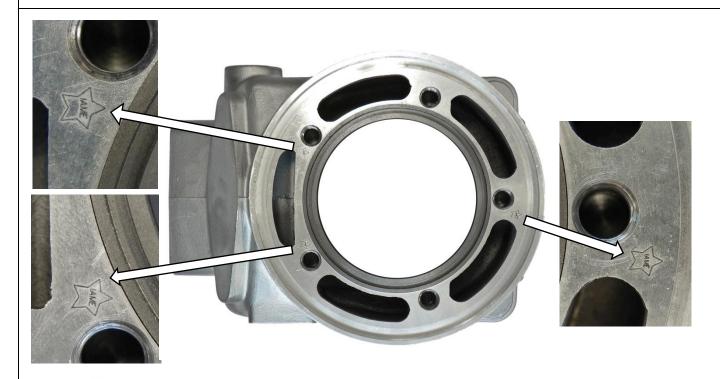
### STICKER APPLICATION AREA

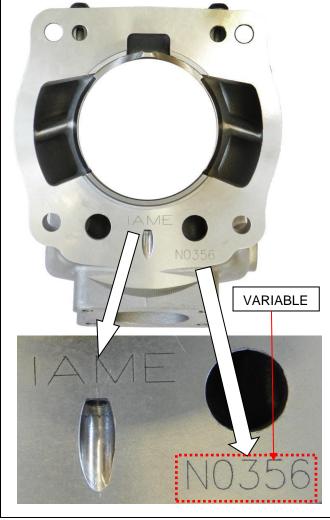


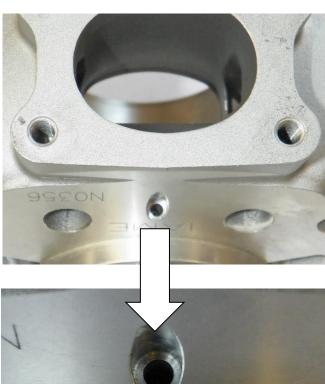




## CYLINDER IDENTIFICATION MARKING











### COMPONENTS WITH ALTERNATIVE NEW LOGO "IAME"

### CYLINDER HEAD





**NEW LOGO** 





**NEW LOGO** 



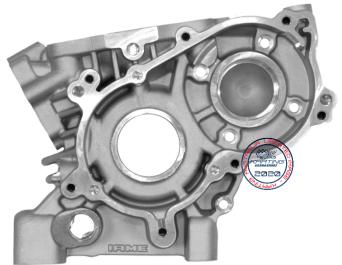
CRANKCASE TRANSMISSION SIDE

**CRANKCASE IGNITION SIDE** 



**NEW LOGO** 





**NEW LOGO** 









### COMPONENTS WITH ALTERNATIVE NEW LOGO "IAME"

### **IGNITION COVER**



**NEW LOGO** 





**RADIATOR** 



**NEW LOGO** 



**NEW LOGO** 



**EXHAUST SILENCER** 



**NEW LOGO** 

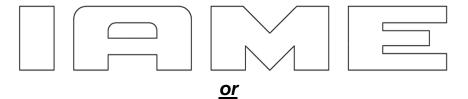






### COMPONENTS WITH ALTERNATIVE NEW LOGO "IAME"

# THE OTHERS COMPONENTS OF ENGINE THAT ARE MARKED (LASER OR PUNCHING) UNTIL TODAY WITH LOGO OR WRITTEN "IAME"



# **IAME**

### **NOW COULD BE MARKED WITH NEW LOGO "IAME"**



<u>or</u>



<u>or</u>

















# CARBURETTOR Tillotson HB-10A



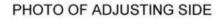


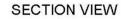


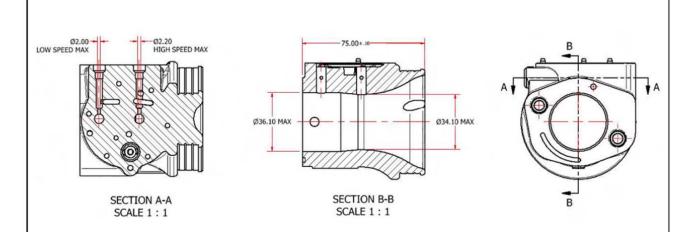
PHOTO OF INLET SIDE

Manufacturer	TILLOTSON LTD.	
Make	TILLOTSON	
Model	HB-10A	

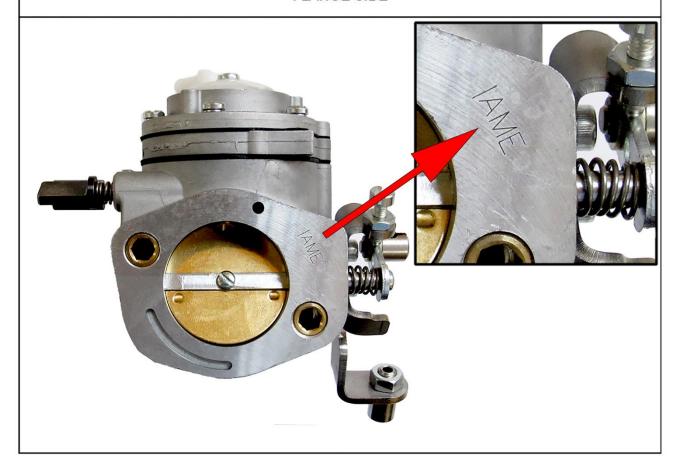








### **FLANGE SIDE**





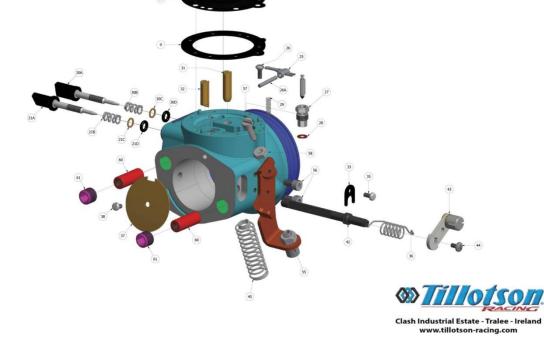


### CARBURETTOR DESCRIPTION AND SKETCH OF PARTS

# **HB-10A**



PART NO:	DESCRIPTION	QT
		1
+ * 237-698	DIAPHRAGM	1
91A-275	DIAPHRAGM COVER	
+ * 16-B392	FUEL PUMP GASKET	1
+ * 237-223	FUEL PUMP DIAPHRAGM	- 1
141-89	FUEL PUMP BODY	1
15C-51	FUEL PUMP BODY SCREW	6
95 - 170	FUEL STRAINER SCREEN	1
+ * 16-B205	FUEL STRAINER COVER GASKET	1
91-A251	FUEL STRAINER COVER	1
15-B313	FUEL STRAINER COVER RETAINING SCREW	1
43-1029	IDLE MIXTURE SCREW	1
24-B449	IDLE MIXTURE SCREW SPRING	1
78A-256	IDLE MIXTURE SCREW WASHER	1
44-361	IDLE MIXTURE SCREW PACKING	1
* 155A-27	INLET CONTROL LEVER	1
15-B329	FULCRUM LEVER SCREW	1
32-79	FULCRUM LEVER PIN	1
		1
		1
	HIGH SPEED MIXTURE SCREW	
	HIGH SPEED MIXTURE SCREW HIGH SPEED MIXTURE SCREW SPRING	
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		2
		2
	LIMITER NUT	
		2
81-382	MOUNTING NUT CLOSURE	2
RK-1HB	REPAIR KIT	
DG-1HB	DIAPHRAGM & GASKET (STANDARD)	
233-717P	INLET NEEDLE & SEAT SET	
	NICATES CONTENTS OF BEDAIR VIT	
	CONTENTS OF REPAIR KIT	
	+* 16-8408 +* 237-698 91A-275 +* 16-8392 +* 237-698 91A-275 +* 16-8392 +* 237-223 141-89 15C-51 95-170 +* 16-8205 91-A251 15-8313 43-1029 24-8449 78A-256 44-361 -* 155A-27 15-832 32-79 24-8499 43-1030 248-449 78A-256 363-332 44-361 29-224 15-C19 24-8381 14-A121 15-C20 13-8236 12-1220 13-627 15-C39 81-383 136-A62 15-C67 15-C9 81-383 81-377 81-383 RK-1HB DG-1HB 233-717P	+ *16-8408 DIAPHRAGM GASKET + *237-809 DIAPHRAGM GASKET 91-275 DIAPHRAGM COVER + *16-8392 FUEL PUMP GASKET + *16-8392 FUEL PUMP GASKET 141-89 FUEL PUMP BODY SCREW 150-51 FUEL STRAINER SCREW 150-51 FUEL STRAINER SCREW 95-170 FUEL STRAINER SCREW 95-170 FUEL STRAINER COVER GASKET 91-8251 FUEL STRAINER COVER GASKET 91-8251 FUEL STRAINER COVER RETAINING SCREW 15-8313 FUEL STRAINER COVER RETAINING SCREW 43-1029 IDLE MIXTURE SCREW SPRING 78-256 IDLE MIXTURE SCREW SPRING 78-256 IDLE MIXTURE SCREW SPRING 15-8329 FUL CRIM LEVER SCREW SPRING 1-58-279 FUL CRIM LEVER SCREW 32-79 FUL CRIM LEVER SCREW 32-79 FUL CRIM LEVER SCREW 32-37-179 INLET SCREW 32-37-179 INLET SCREW SCREW 32-19 INLET SEAT GASKET 16-8199 INLET SEAT GASKET 18-3-3332 HIGH SPEED MIXTURE SCREW SPRING 18-3-3332 HIGH SPEED MIXTURE SCREW SPRING 18-3-3332 HIGH SPEED MIXTURE SCREW ASHER 18-3-3332 HIGH SPEED MIXTURE SCREW PACKING 18-3-3331 HIGH SPEED MIXTURE SCREW PACKING 14-4-381 HIGH SPEED MIXTURE SCREW PACKING 14-4-21 THROTTLE SHAFT CLIP RETAINING SCREW 11-5-C92 THROTTLE SHAFT CLIP RETAINING SCREW 11-5-C97 CARBURET SCREW 11-5-C97 THROTTLE SHAFT SCREW 11-5-C97 CARBURET







REF.9 - P. N°16-B408



Thickness =  $1.00 \pm 0.1 \text{ mm}$ 

PUMP DIAPHRAGM GASKET REF.13 - P. N° 16-B392



Thickness =  $0.8 \pm 0.1 \text{ mm}$ 

REF.10 - P. N°237-698 DIAPHRAGM



Thickness =  $0.13 \pm 0.07 \text{ mm}$ 

REF.14 - P. N°237-223 PUMP DIAPHRAGM



Thickness =  $0.075 \pm 0.07 \text{ mm}$ 

REF.11 - P. N° 91-1031 DIAPHRAGM COVER



Thickness =  $6.75 \pm 0.15$  mm

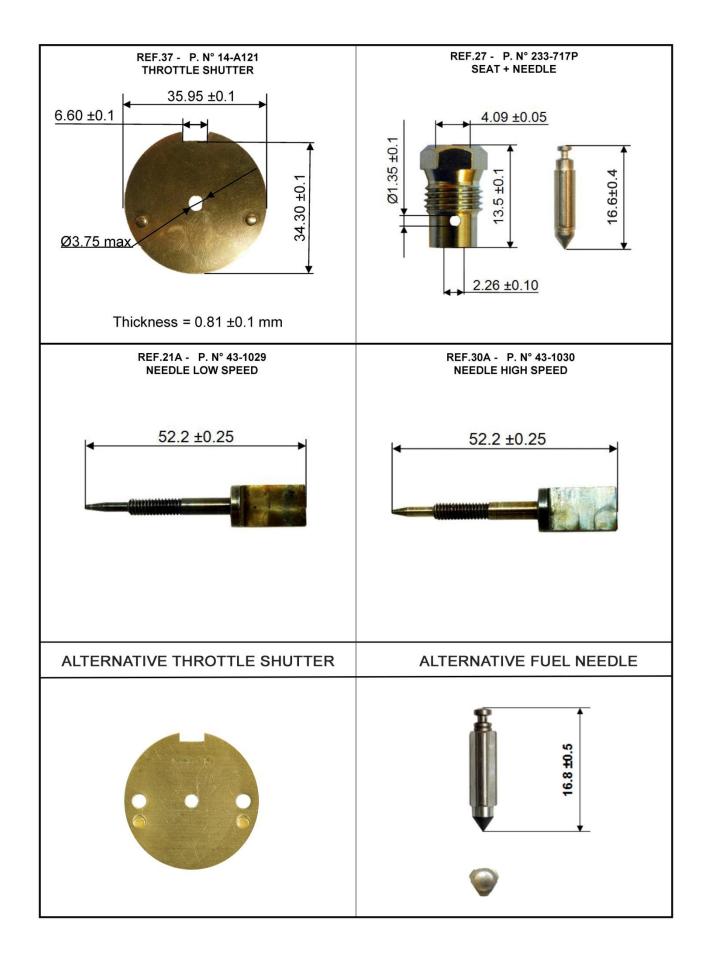
REF.15 - P. N° 141-89 PUMP COVER



Thickness =  $12.5 \pm 0.15$  mm



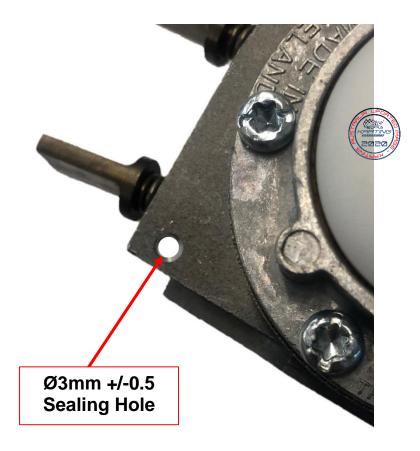






### HOLE FOR CARBURETTOR SEALING

The carburettor may have this hole for sealing.











# **CARBURETTOR Tillotson HW-22B**







PHOTO OF ADJUSTING SIDE

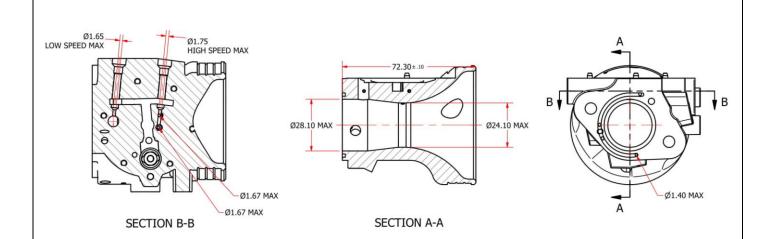
PHOTO OF INLET SIDE

Manufacturer	TILLOTSON LTD.
Make	TILLOTSON
Model	HW-22B

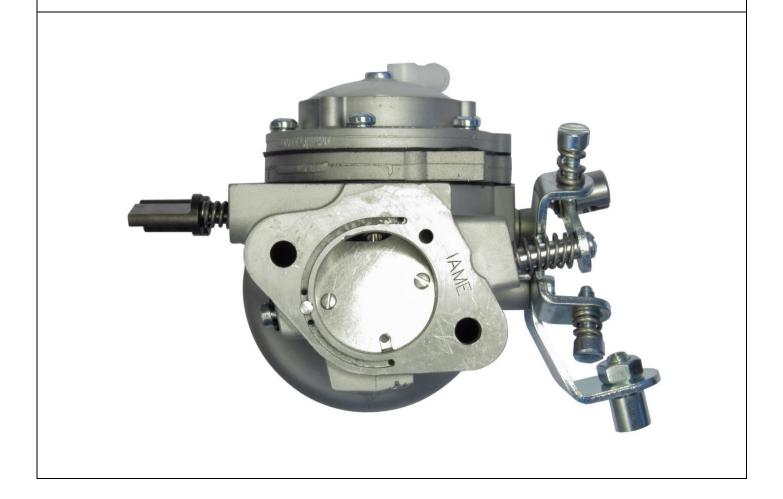




### **SECTION VIEW**

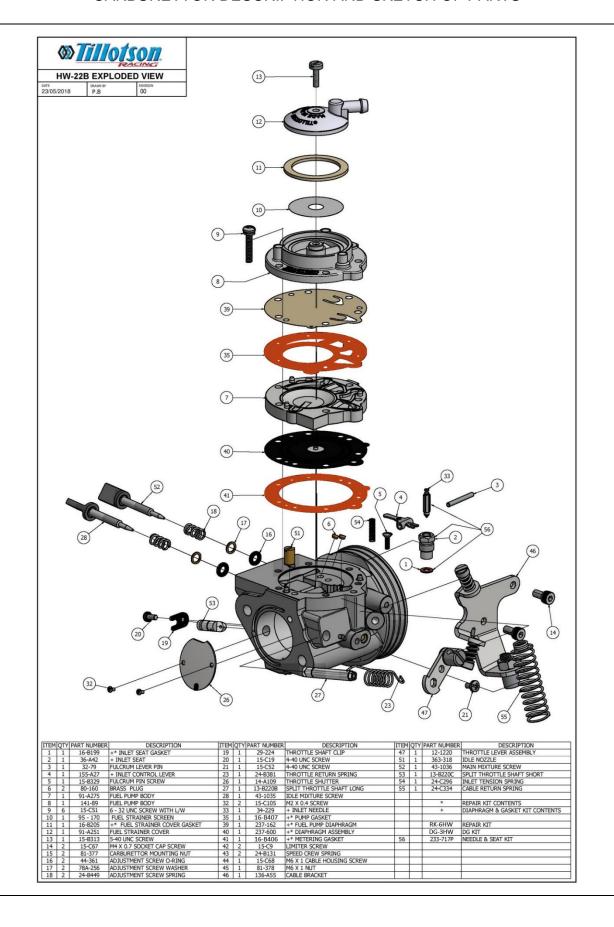


### **MARKING**





### CARBURETTOR DESCRIPTION AND SKETCH OF PARTS







### PARTS OF CARBURETTOR

REF. 41- P. N°16-B406 DIAPHRAGM GASKET (ORANGE COLOR)



Thickness =  $0.5 \pm 0.1 \text{ mm}$ 

REF.35 - P. N° 16-B407 PUMP DIAPHRAGM GASKET (ORANGE COLOR)



Thickness =  $0.8 \pm 0.1 \text{ mm}$ 

REF.40 - P. N°237-600 DIAPHRAGM



Thickness =  $0.13 \pm 0.07 \text{ mm}$ 

REF.39 - P. N°237-162 PUMP DIAPHRAGM



Thickness =  $0.10 \pm 0.063$  mm

REF.7 - P. N° 91-A275 DIAPHRAGM COVER



Thickness =  $6.75 \pm 0.15$  mm

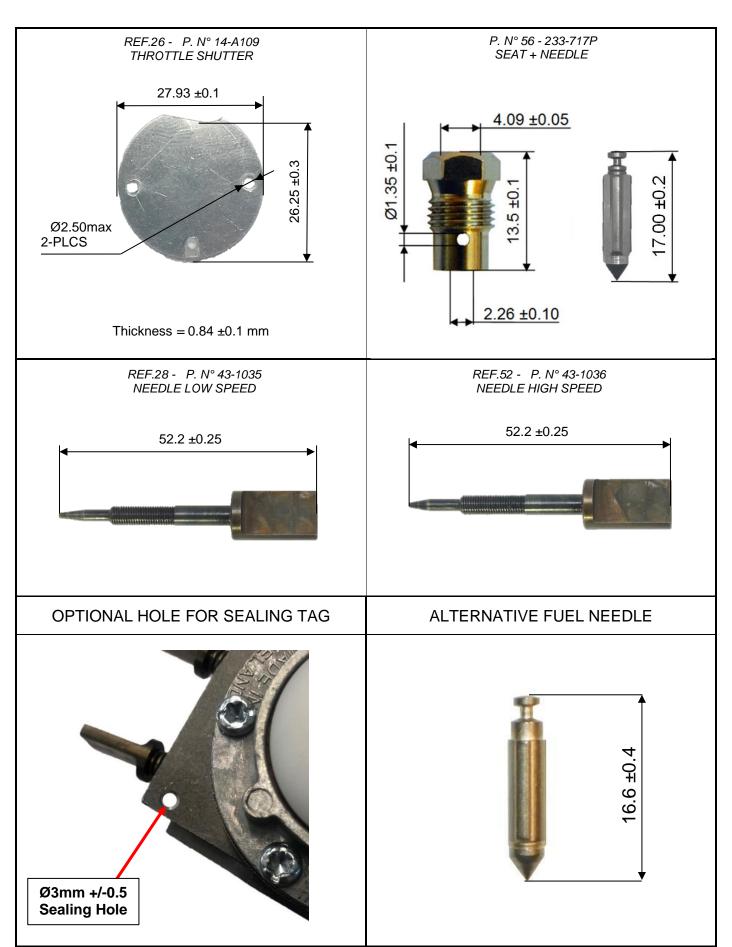
REF.8 - P. N° 141-89 PUMP COVER



Thickness =  $12.5 \pm 0.15$  mm







63



## **UPDATE LOG**

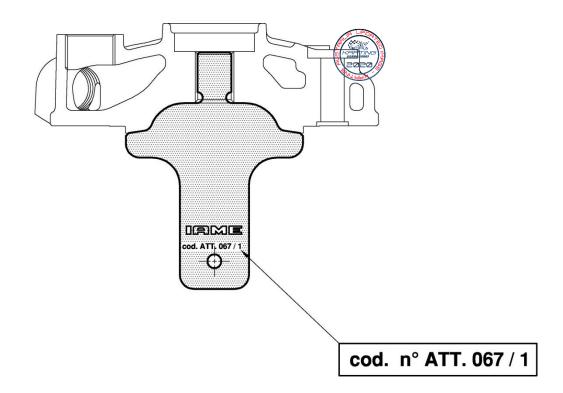
Date	Section	Page
20 October 2020	Mandatory Clutch Oring	22
20 October 2020	Type 2 Radiator	40
20 October 2020	New IAME Logo	50-52
20 October 2020	Carburettor Hole – For sealing/tagging	58
20 October 2020	List of Checking Tools	65-70
14 December 2021	Alternative Conrod Thrust Washers	18
14 December 2021	Type 2 Reed valve cover for carburettor Tillotson HW-22B	24
14 December 2021	Alternative Carburettor Tillotson HW-22B	59-63
14 December 2021	Checking tools for carburettor Tillotson HW-22B	70



# **AVAILABLE CHECKING TOOLS**

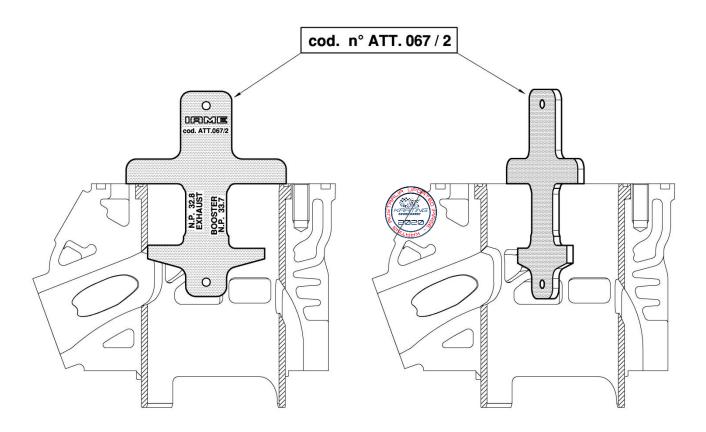
TOOL DESCRIPTION	
head dome shape control tool	ATT.067 / 1
"NO GO" GAUGE EXHAUST & BOOSTER HEIGHT	ATT.067 / 2
"NO GO" GAUGE MAIN & SECONDARY TRASFERTS HEIGHT	ATT.061 / 3
0.20mm THICKNESS GAUGE FOR PORT TIMING CHECKING	10194
"NO GO" GAUGE FOR CLUTCH DRUM INNER DIAMETER	ATT.047 / 4
CARBURETTOR INLET PROFILE AND "NO GO" GAUGE HB-10A	ATT.067 / 4
"NO GO" GAUGE FOR VENTURI DIAMETER HB-10A	ATT.067 / 5
CARBURETTOR INLET PROFILE AND "NO GO" GAUGE HW-22B	ATT.067 / 8
"NO GO" GAUGE FOR VENTURI DIAMETER HW-22B	ATT.067 / 9

# **HEAD DOME SHAPE CONTROL TOOL**





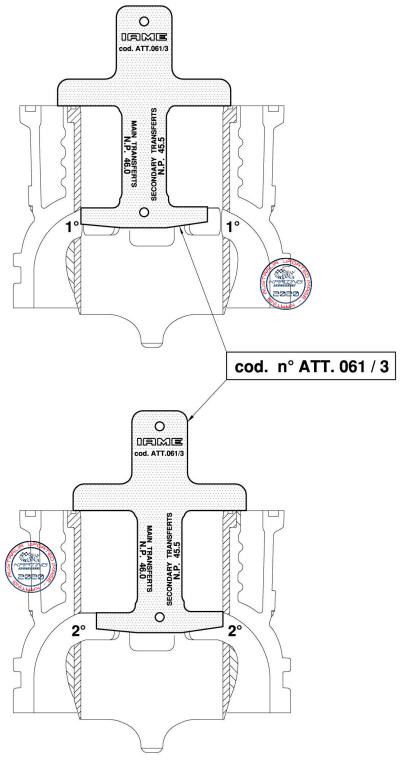
# **"NO GO" GAUGE EXHAUST & BOOSTER HEIGHT**



The tool must not enter into the and exhaust and booster ports



# **"NO GO" GAUGE MAIN & SECONDARY TRASFERTS HEIGHT**

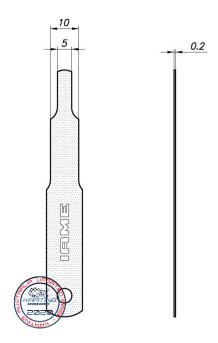


The tool must not enter into the main and secondary transfert ports

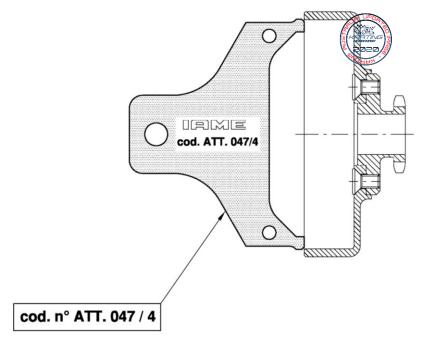


## **PORT TIMING GAUGE**

TOOL IAME Cod. 10194



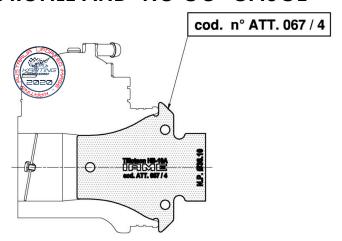
## "NO GO" GAUGE FOR CLUTCH DRUM INNER DIAMETER



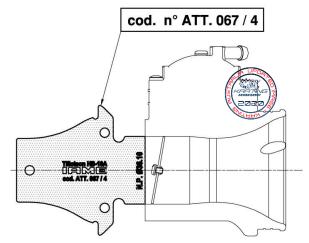
The tool must not enter into the clutch drum in perpendicular position vs. the clutch drum axis.



# CARBURETTOR TILLOTSON HB-10A INLET PROFILE AND "NO GO" GAUGE

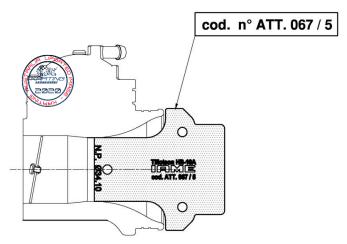


### The carburettor inlet must have the same shape of the tool



The tool must not enter into the rear duct of the carburettor.

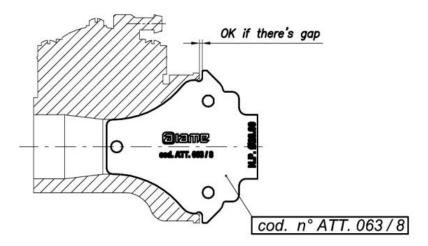
## "NO GO" GAUGE FOR VENTURI DIAMETER



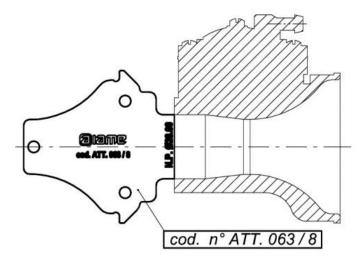
The tool must not enter into the venturi of the carburettor.
The tool must not touch the carburettor's front flange.



# CARBURETTOR TILLOTSON HW-22B INLET PROFILE AND "NO GO" GAUGE

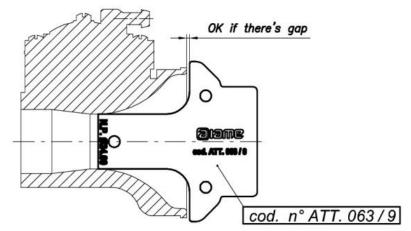


### The carburettor inlet must have the same shape of the tool



The tool must not enter into the rear duct of the carburettor.

### "NO GO" GAUGE FOR VENTURI DIAMETER



The tool must not enter into the venturi of the carburettor.

The tool must not touch the carburettor's front flange.