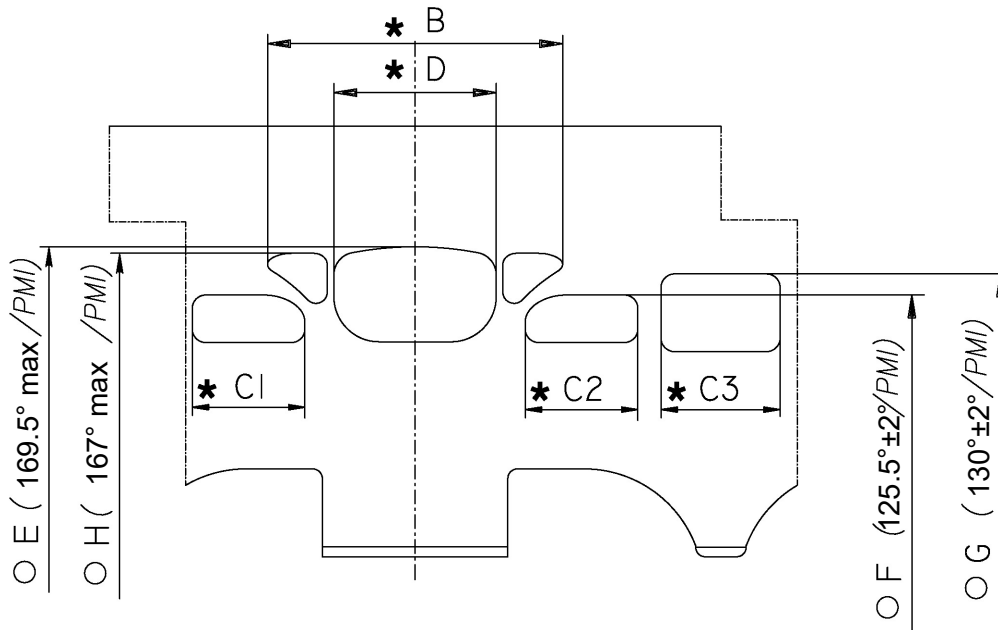


100CC REEDJET JPN - TAG

		FEATURES	
		Cylinder Volume	100 cm ³ max
		Bore	48.20 mm
		Max. theoretical bore	48.53 mm
		Stroke	54.05 mm max
		Cooling system	Air
		Inlet system	Reed valve
		Number of carbs	1
Tillotson Carburettor	HW-33A Ø24mm	Cylinder / crankcase transfers n°	3 / 3
Number of piston rings	1	Transfers / exhaust ports number	3 / 3
Big end contr. ball-bearing diam.	20x26x15	Combustion chamber shape	Spherical
Crankshaft ball-bearing diam.	25x52x15	Selettra ignition (adjustable)	Analogue 2 Poles
Small end contr. ball-bearing diam.	14x18x18	Distance between Conrod centres	102 mm

CYLINDER DEVELOPMENT

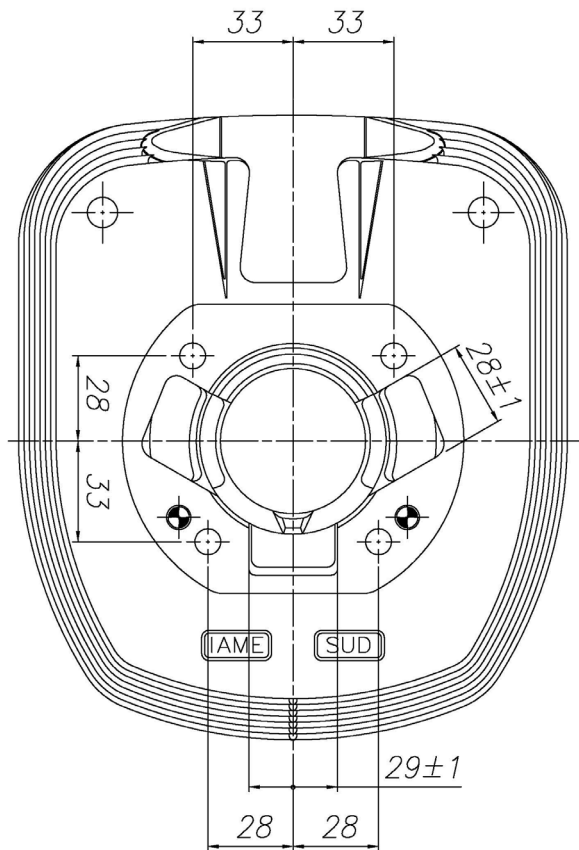


B	≤ 48.2 mm
C1 = C2	≤ 27.2 mm
C3	≤ 27 mm
D	≤ 34 mm
E	169.5° max
F	$125.5^\circ \pm 2^\circ$
G	$130^\circ \pm 2^\circ$
H	167° max

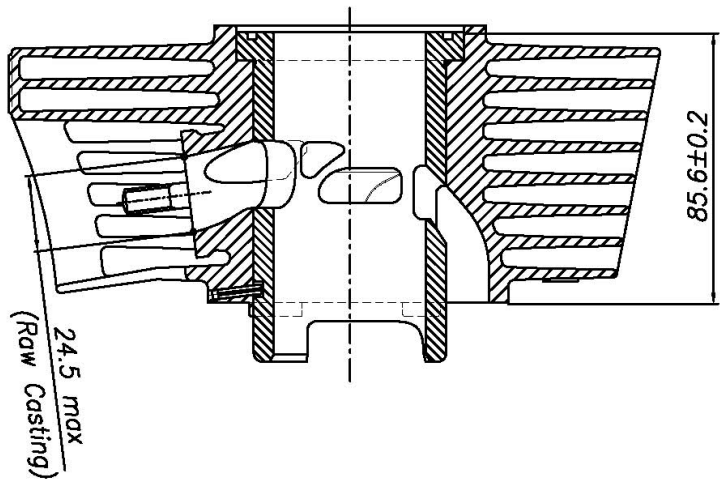
* CHORDAL READING

$\circ$ ANGULAR READING BY INSERTING A 0.2x5 mm GAUGE

CYLINDER BASE VIEW

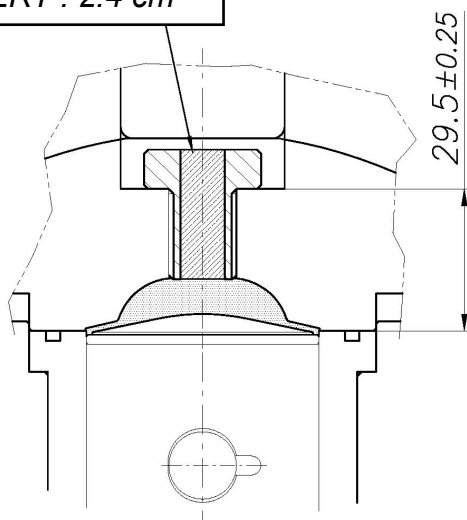


CYLINDER CROSS SECTION VIEW



COMBUSTION CHAMBER VIEW

INSERT : 2.4 cm^3

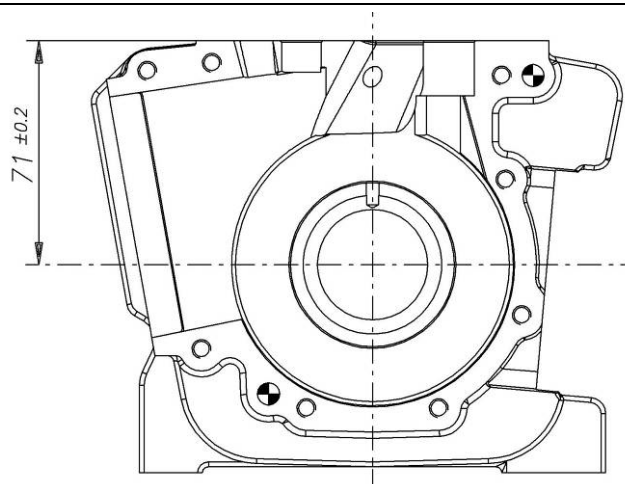


COMBUSTION CHAMBER VOLUME = 9.2 cm^3 min.

SQUISH MIN.= 1.05 mm
(measured with $\varnothing 2\text{mm}$ TIN)

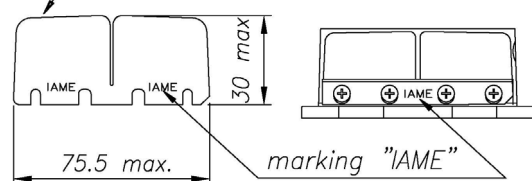
Combustion chamber volume in the cylinder head
(with Volumeter and Insert):
 11.3 cm^3 min

CRANKCASE INSIDE VIEW

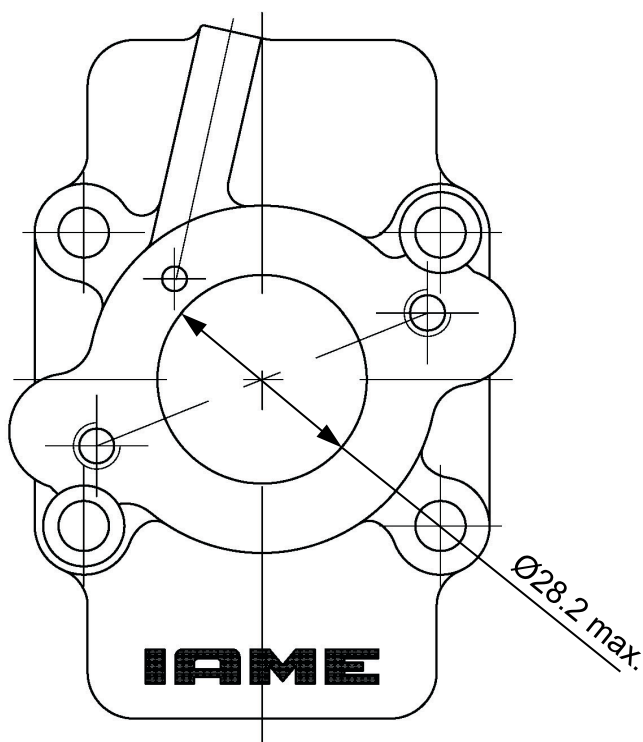


REEDS DIMENSIONS

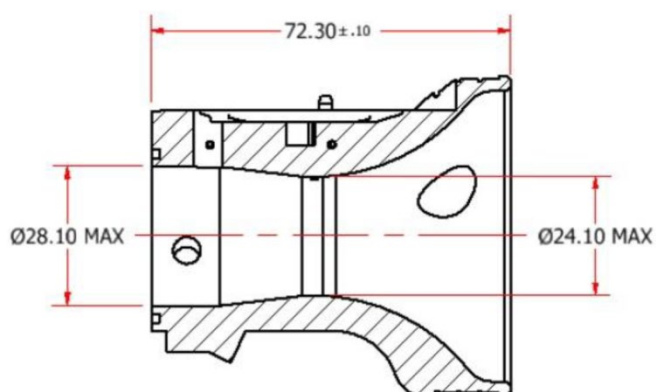
Reed petals min. thicknesses = 0.24 mm
Material: Carbon Fiber



INLET CONVEYOR DIMENSIONS



VENTURI CARB. DIMENSIONS

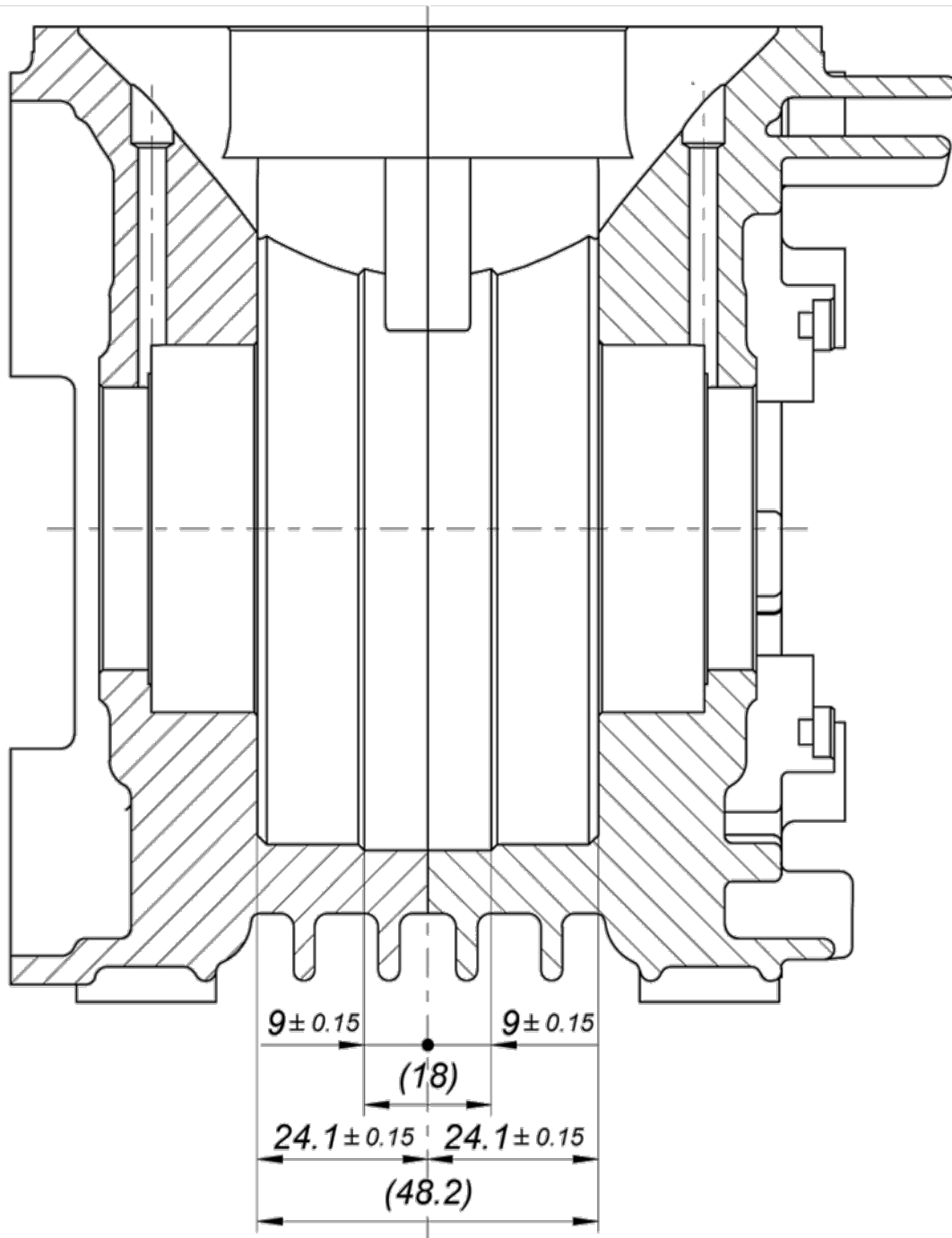


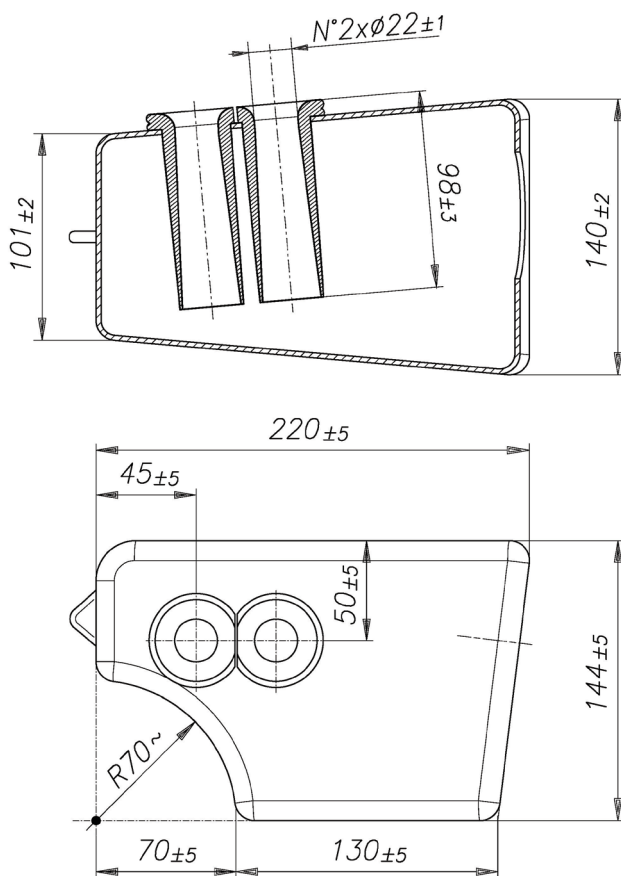
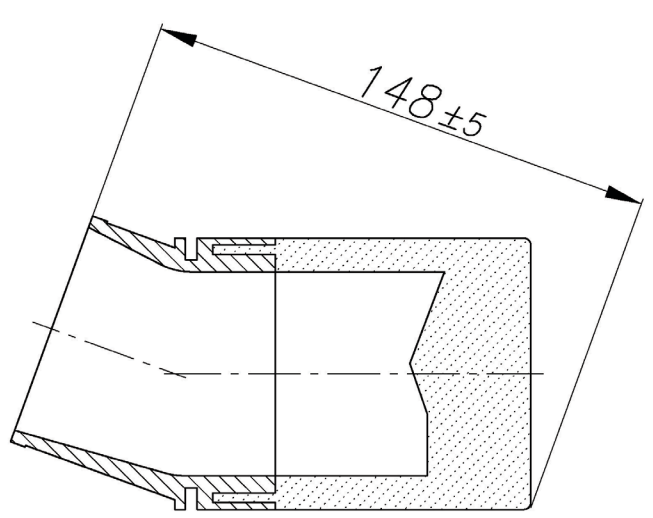
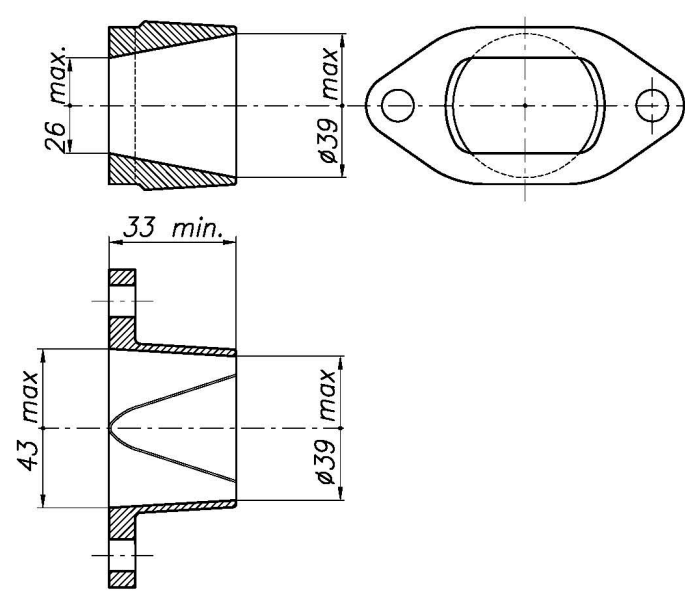
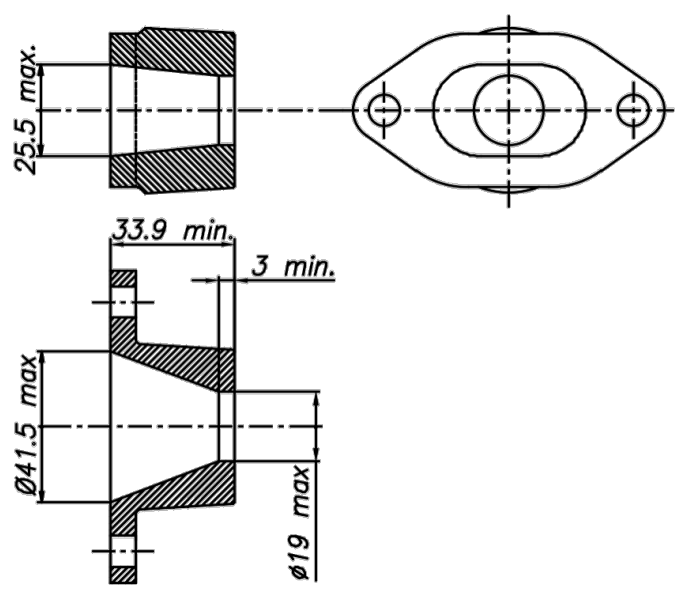
TILLOTSON MOD. HW-33A

CRANKCASE WIDTH DIMENSIONS

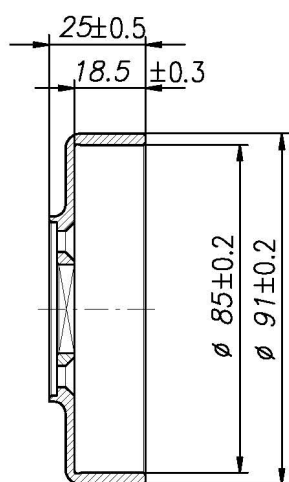
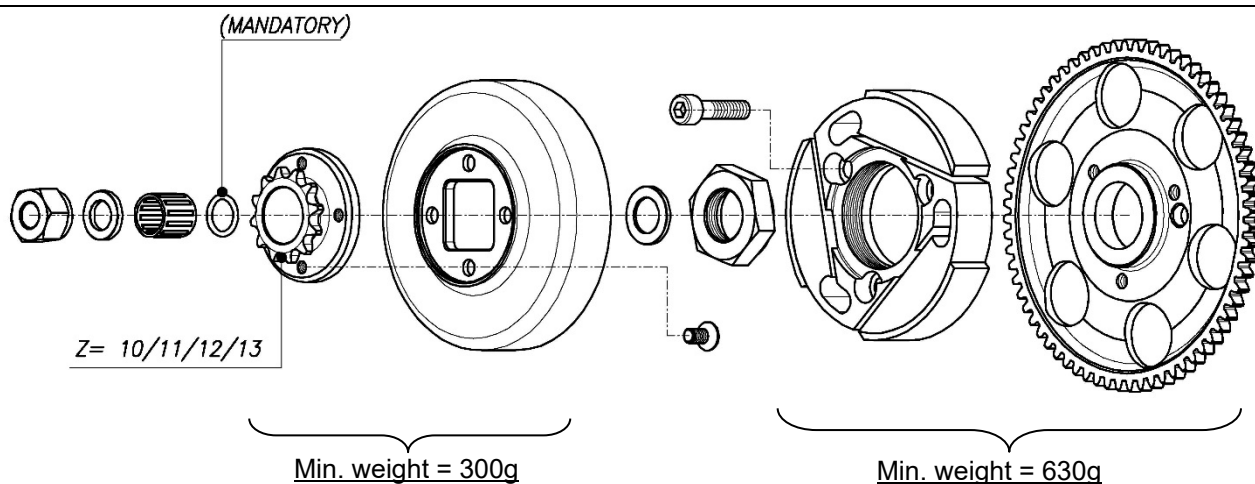
DRIVE SIDE

IGNITION SIDE

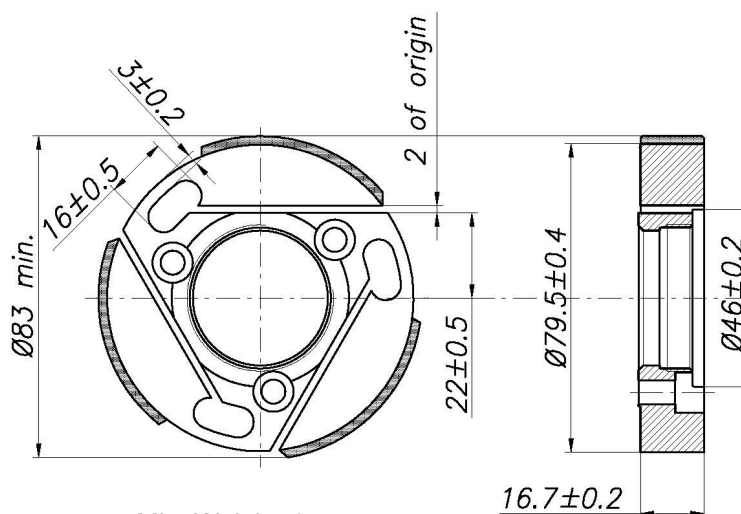


NLET SILENCER	SPONGE FILTER INLET SILENCER
 Technical drawing of the NLET SILENCER. The side view shows a rectangular unit with a height of 101 ± 2 and a total width of 140 ± 2. It features two vertical internal baffles and a top inlet labeled $N^{\circ} 2 \times \varnothing 22 \pm 1$. The front view shows a width of 220 ± 5 and a height of 144 ± 5. It includes two circular ports with a diameter of 50 ± 5, a bottom-left corner with a radius of $R70 \sim$, and horizontal dimensions of 45 ± 5, 70 ± 5, and 130 ± 5.	 Technical drawing of the SPONGE FILTER INLET SILENCER. The perspective view shows a rectangular unit with a diagonal dimension of 148 ± 5.
EXHAUST MANIFOLD	EXHAUST MANIFOLD RESTRICTED $\varnothing 19\text{mm}$
 Technical drawing of the EXHAUST MANIFOLD. The side view shows a flange with a maximum thickness of 26 max. and a central bore with a diameter of $\varnothing 39 \text{ max.}$. The front view shows a maximum height of 43 max. and a minimum width of 33 min. at the top. The bottom view shows a central bore with a diameter of $\varnothing 39$.	 Technical drawing of the EXHAUST MANIFOLD RESTRICTED $\varnothing 19\text{mm}$. The side view shows a flange with a maximum thickness of 25.5 max. and a central bore with a diameter of $\varnothing 19 \text{ max.}$. The front view shows a maximum height of 41.5 max. and a minimum width of 33.9 min. at the top. The bottom view shows a central bore with a diameter of $\varnothing 19$ and a minimum distance of 3 min. from the top edge.

DESCRIPTION OF THE CLUTCH



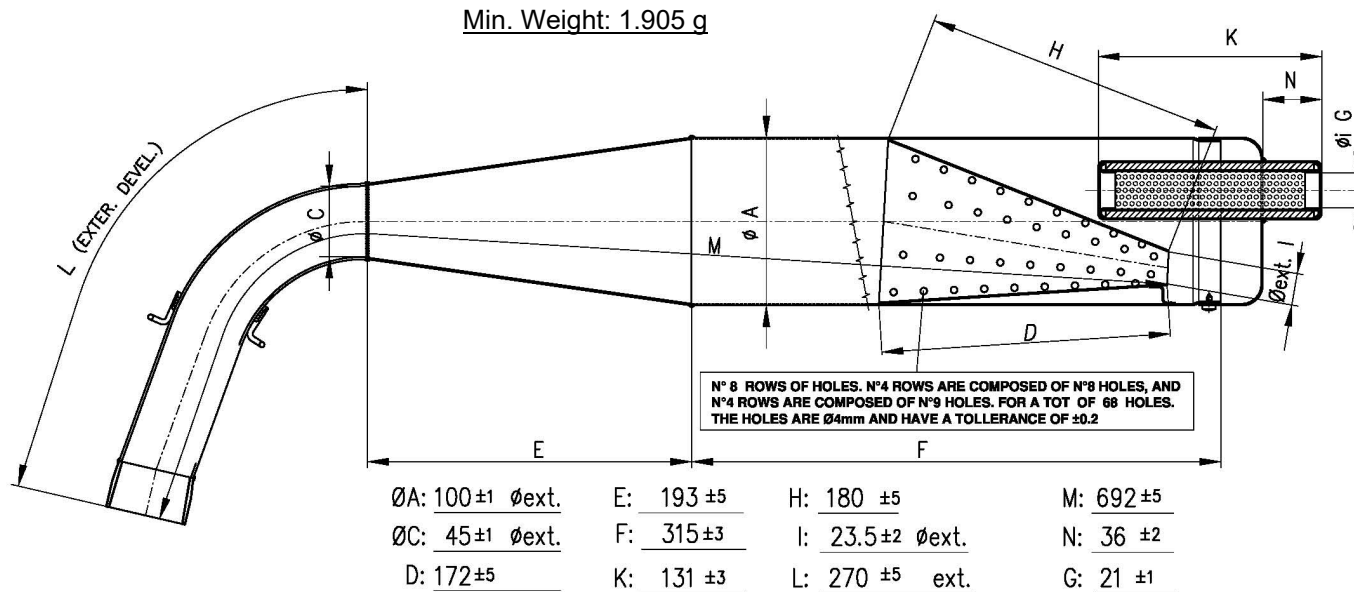
Min. Weight : 225g



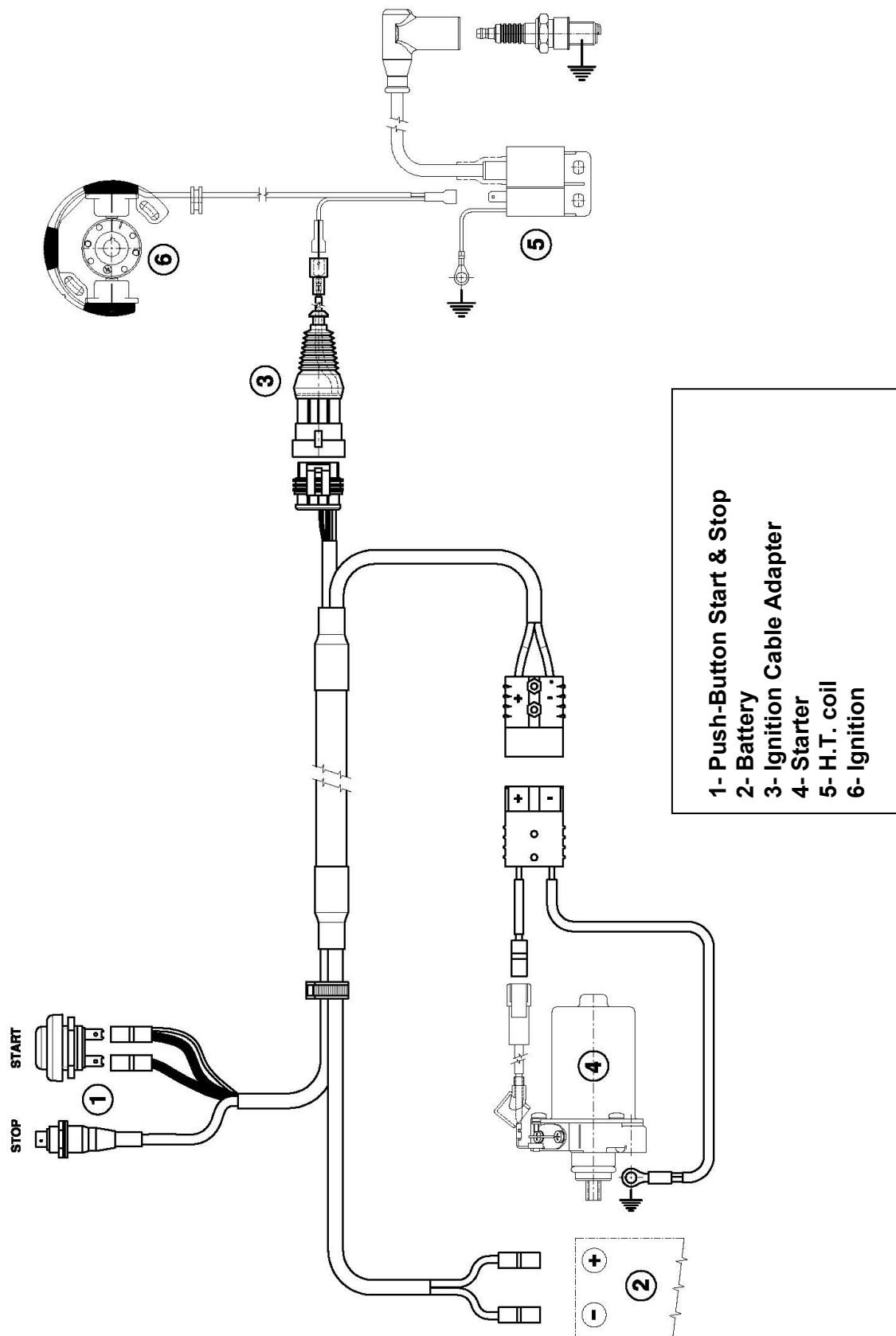
Min. Weight: 375 g

EXHAUST MUFFLER VIEW AND DIMENSIONS

Min. Weight: 1.905 g



WIRING DIAGRAM



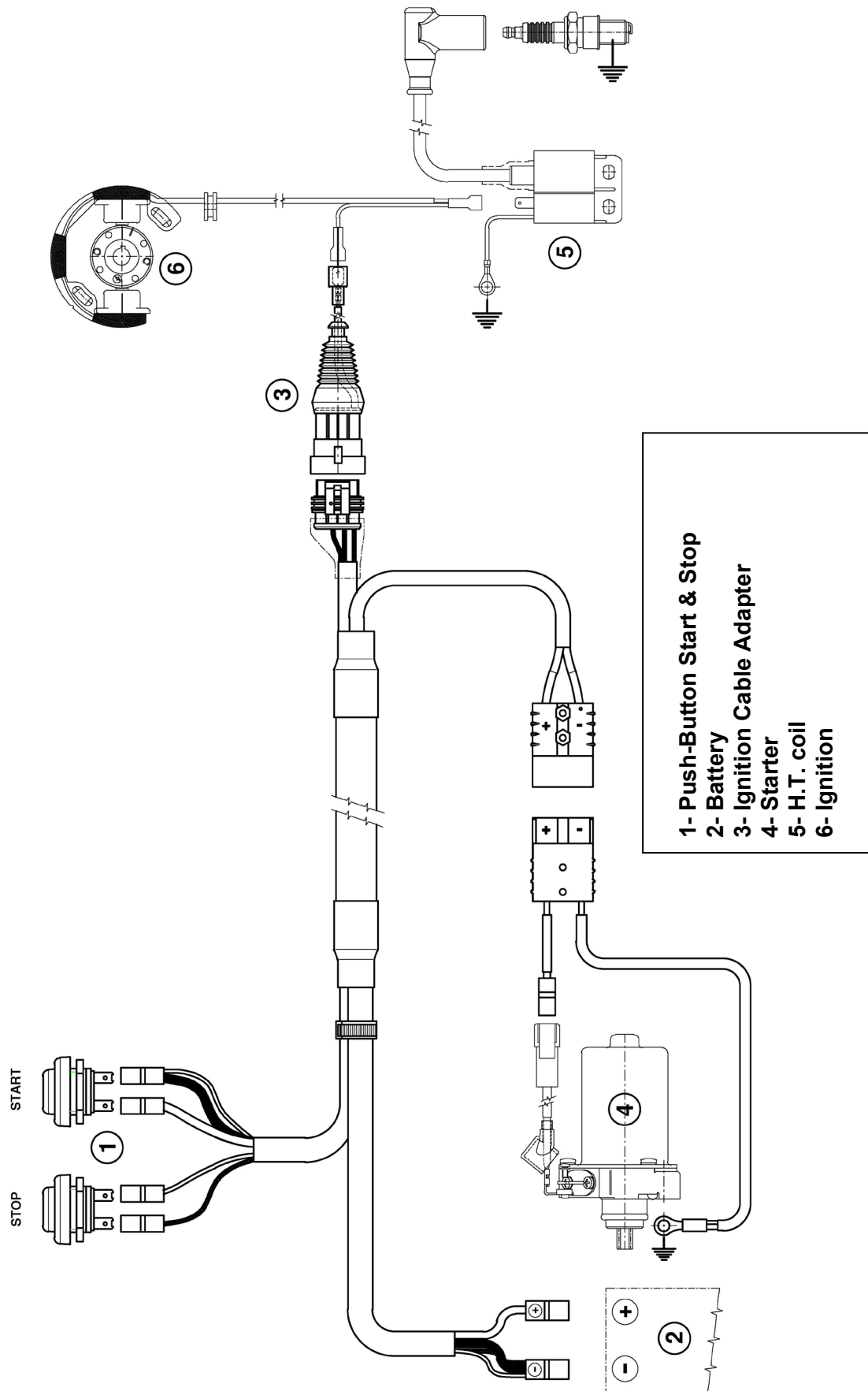
COMPLETE WIRING LOOM



ALTERNATIVE WIRING LOOM



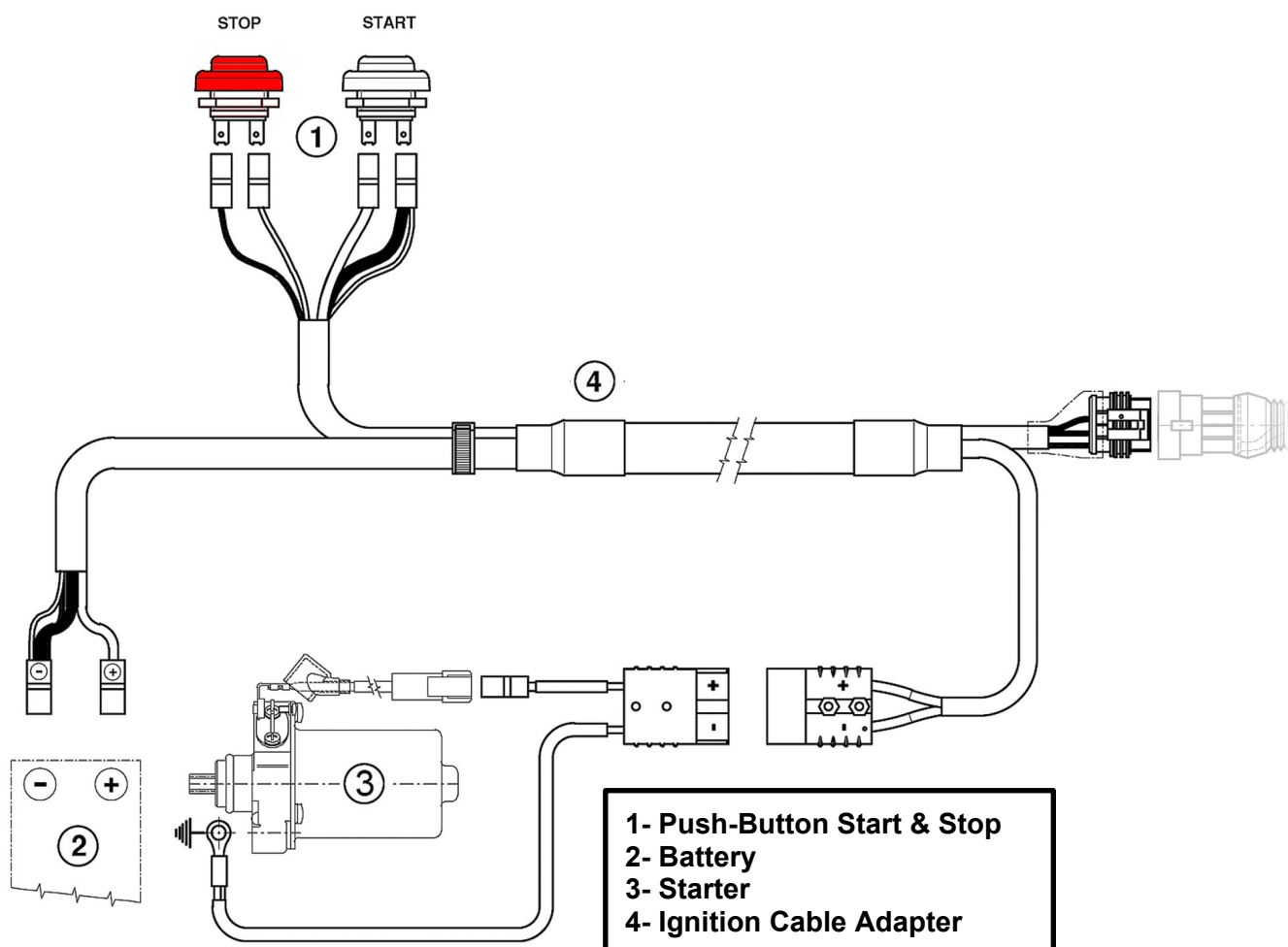
ALTERNATIVE WIRING DIAGRAM

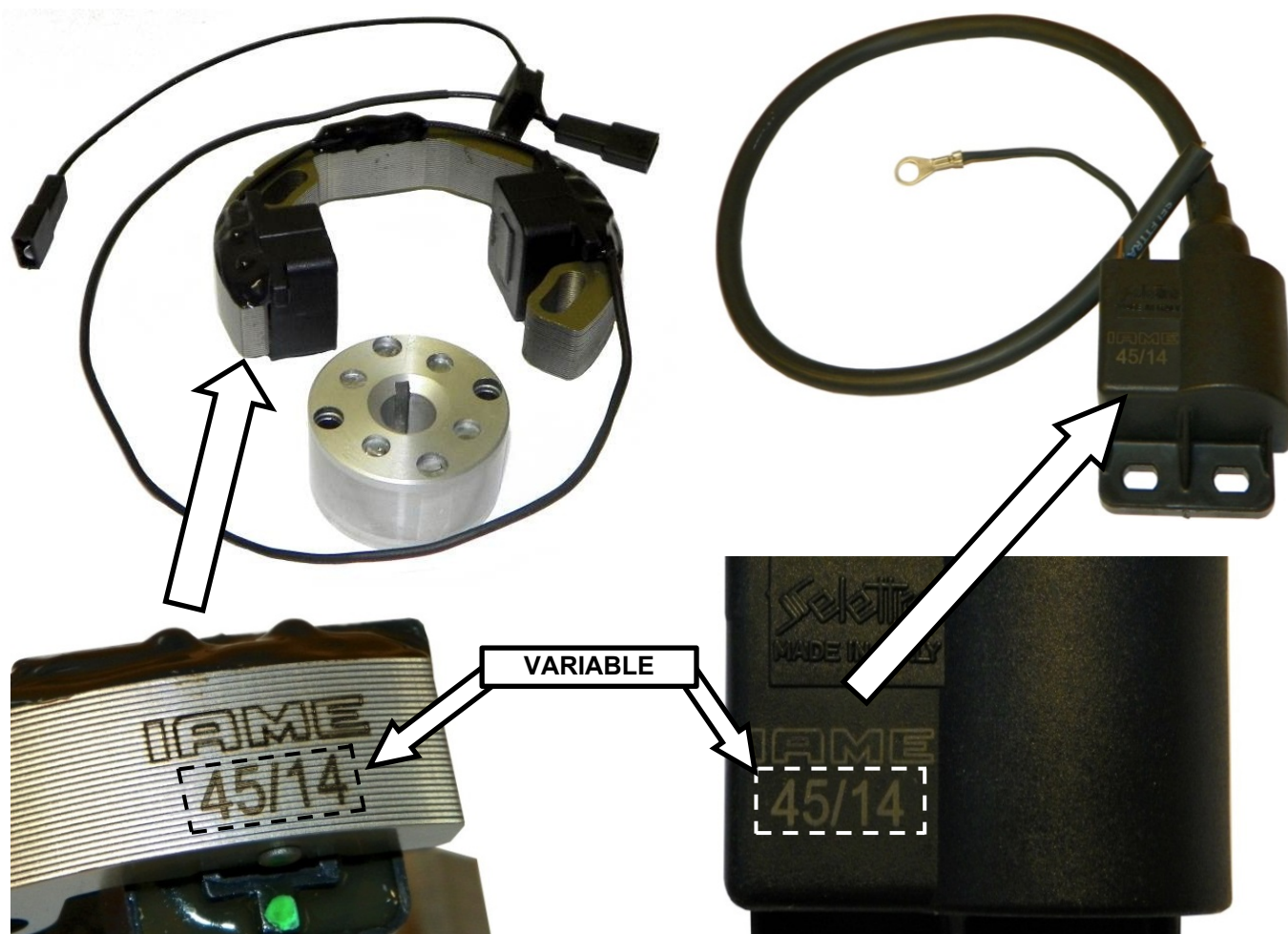


ALTERNATIVE WIRING LOOM

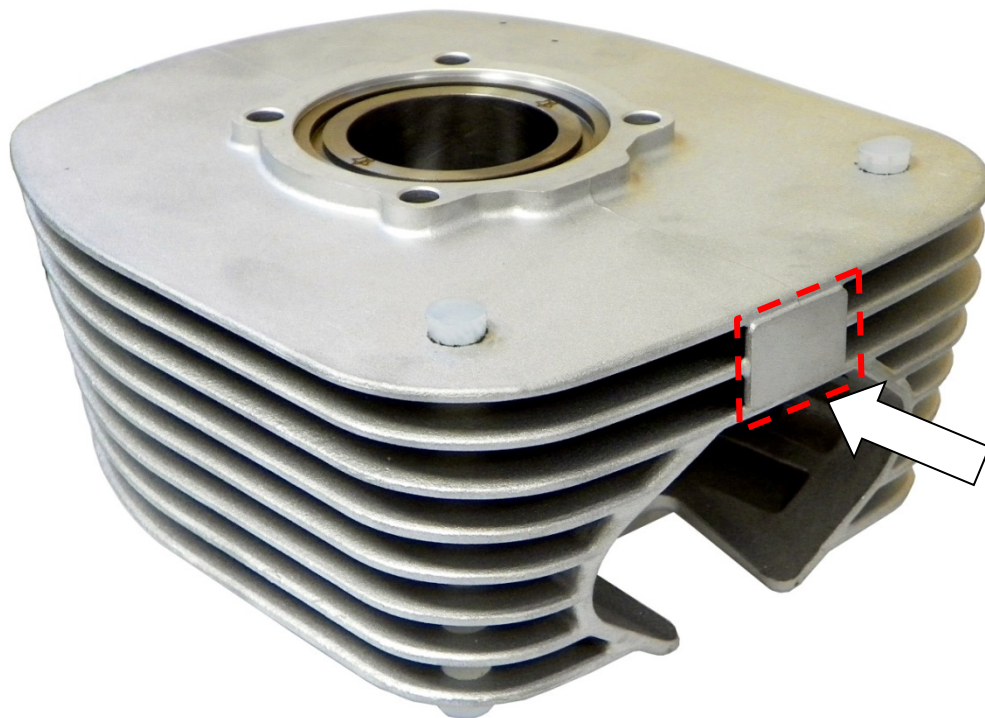
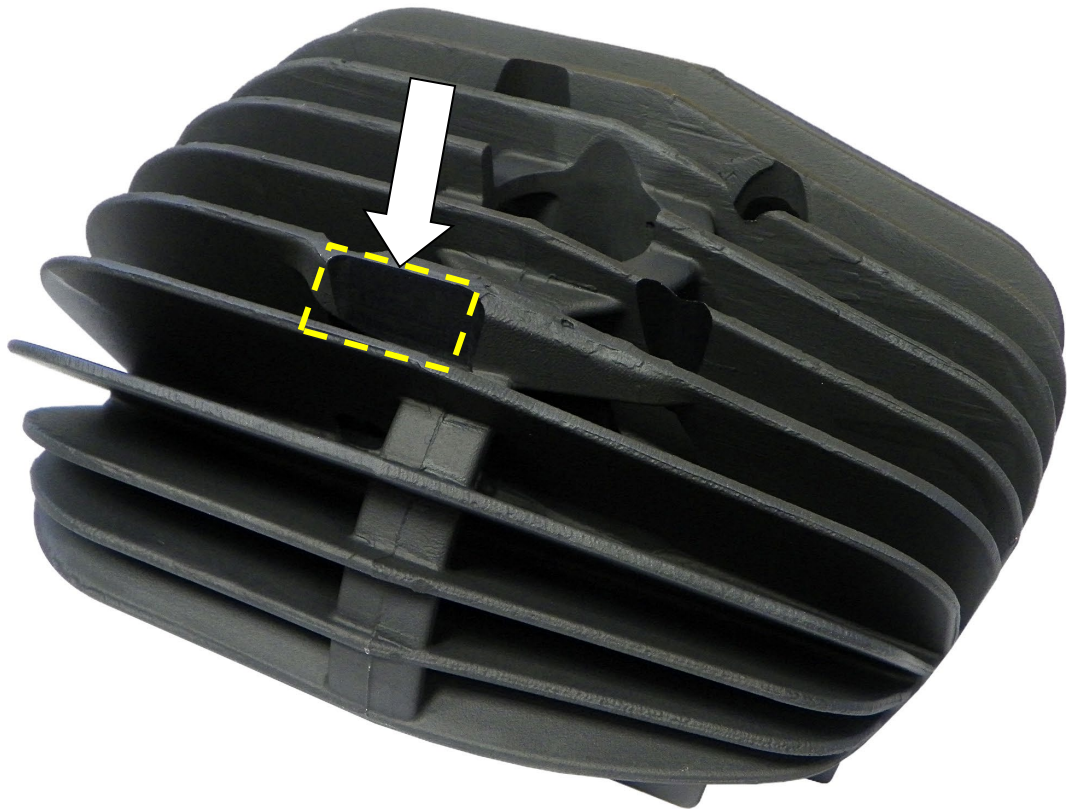


ALTERNATIVE WIRING LOOM DIAGRAM





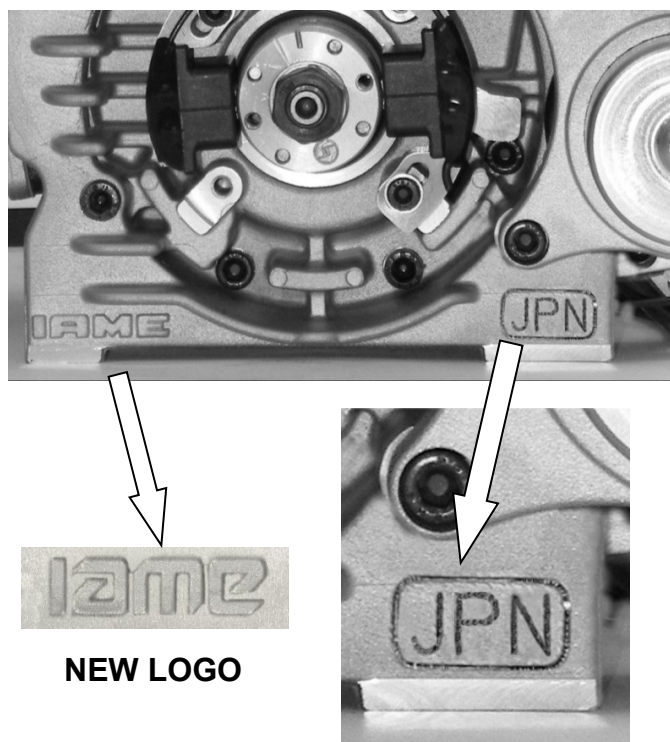
STICKER APPLICATION AREA



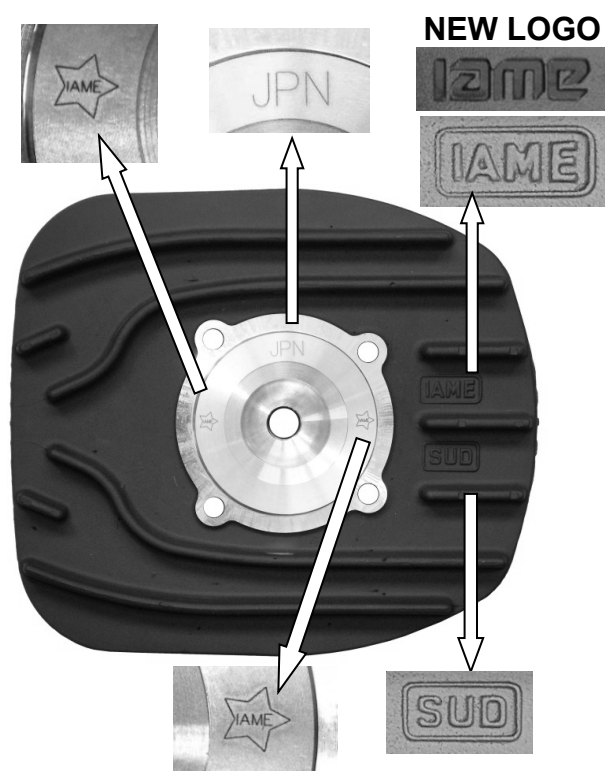
CYLINDER IDENTIFICATION MARKING



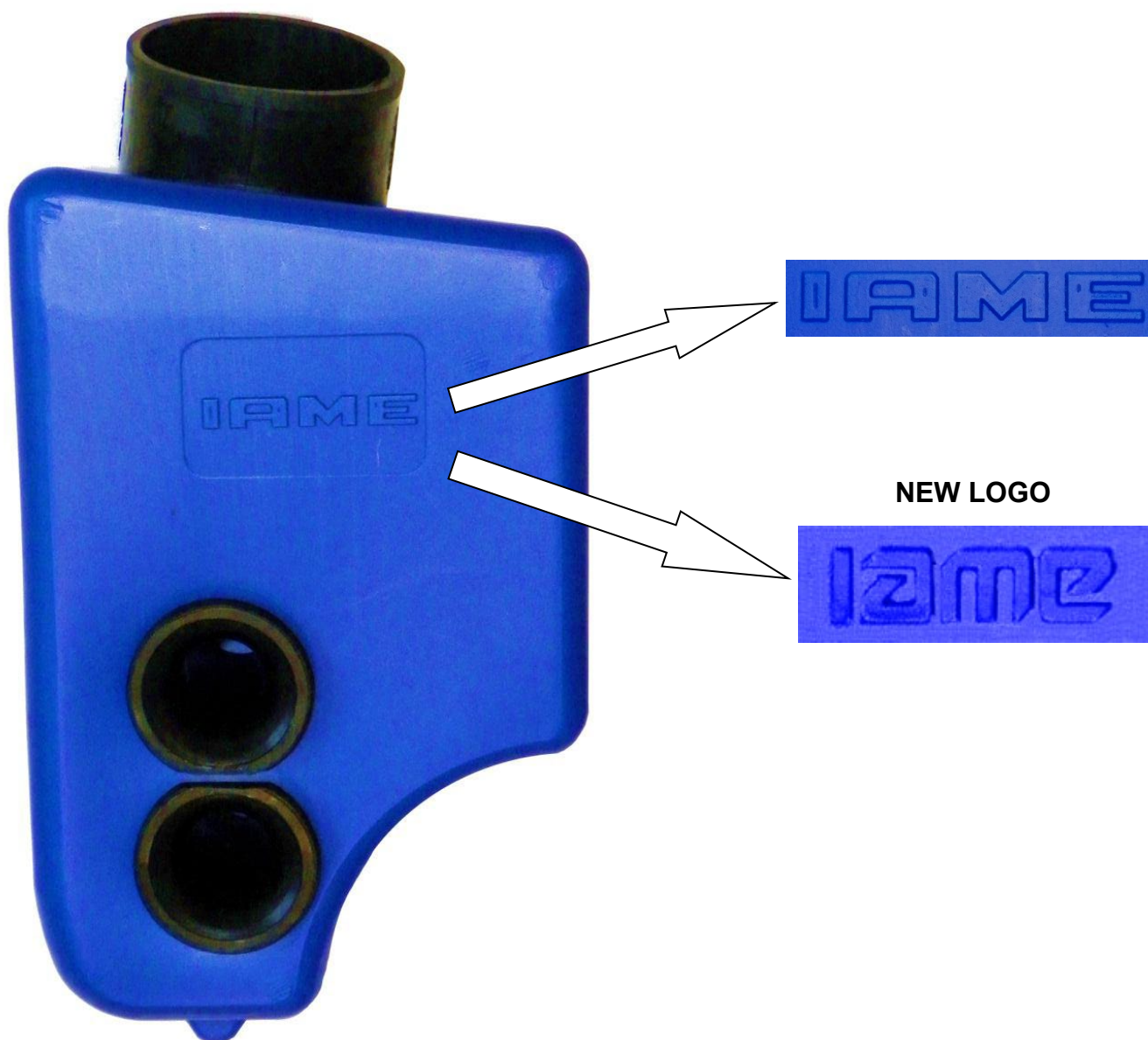
CRANKCASE IDENTIFICATION MARKING



HEAD IDENTIFICATION MARKING



INLET SILENCER - "IAME" IDENTIFICATION MARKING



PISTON IDENTIFICATION MARKING

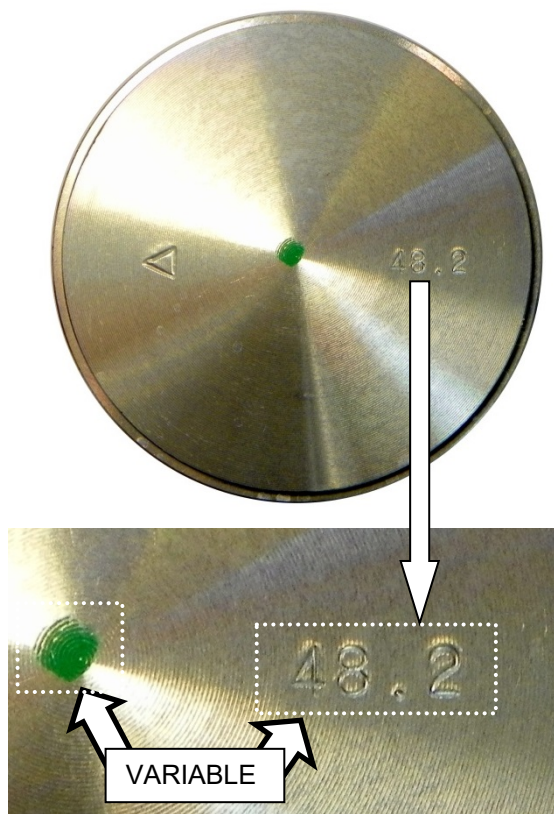


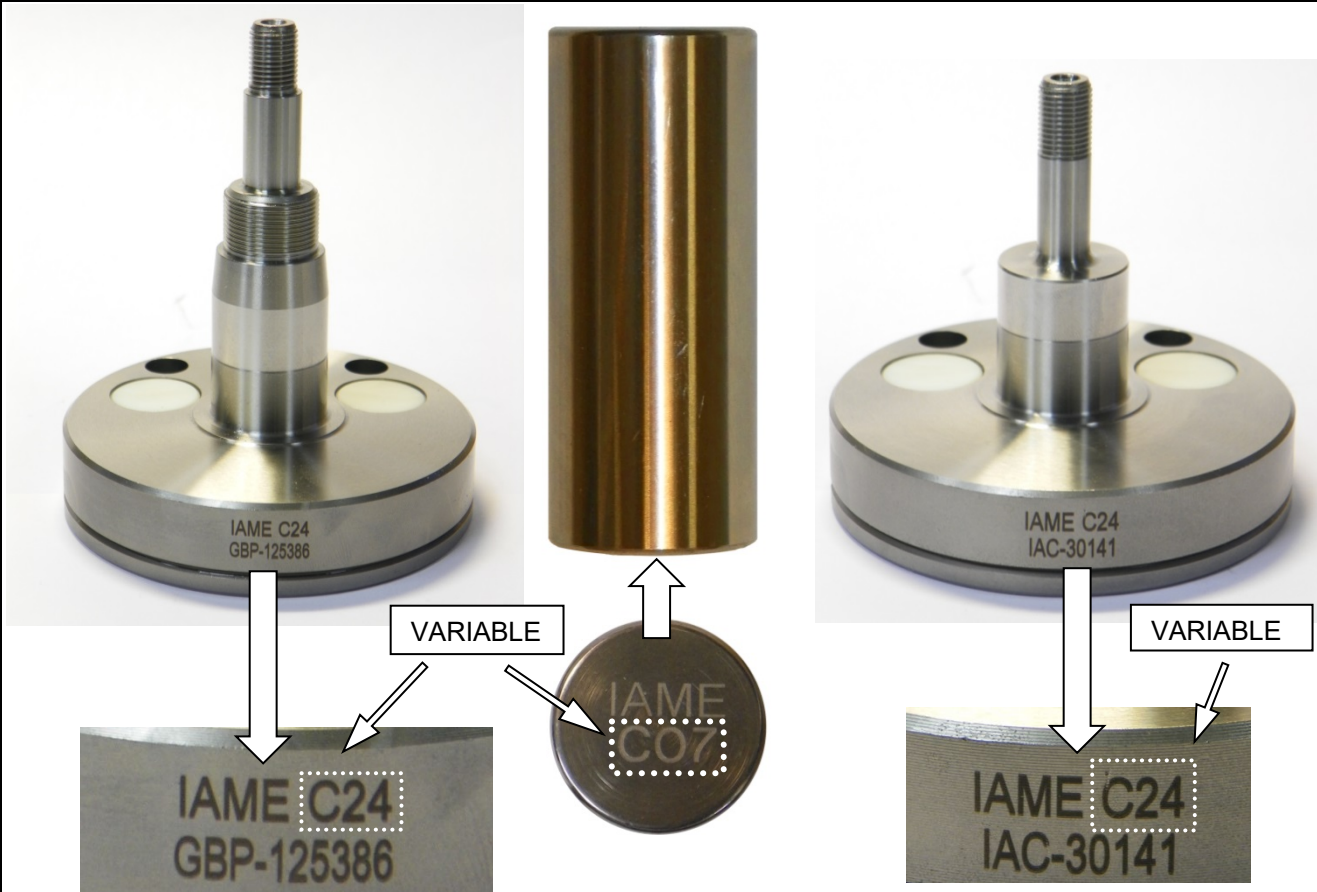
PHOTO IDENTIFICATION CONROD



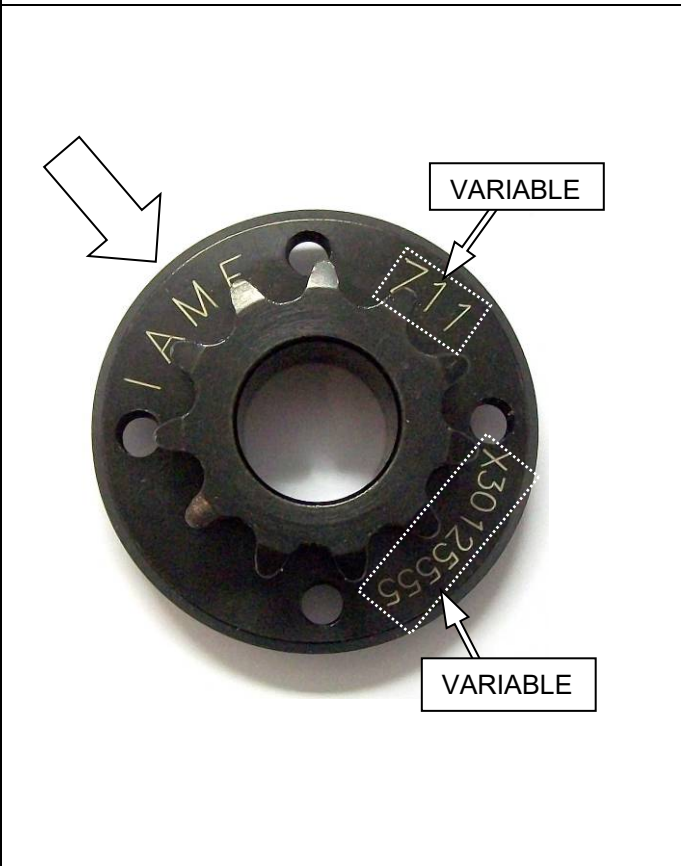
STARTER IDENTIFICATION MARKING



CRANKSHAFT IDENTIFICATION MARKING



SPROCKET IDENTIFICATION MARKING



STARTER RING IDENTIFICATION MARKING



CLUTCH BODY IDENTIFICATION MARKING



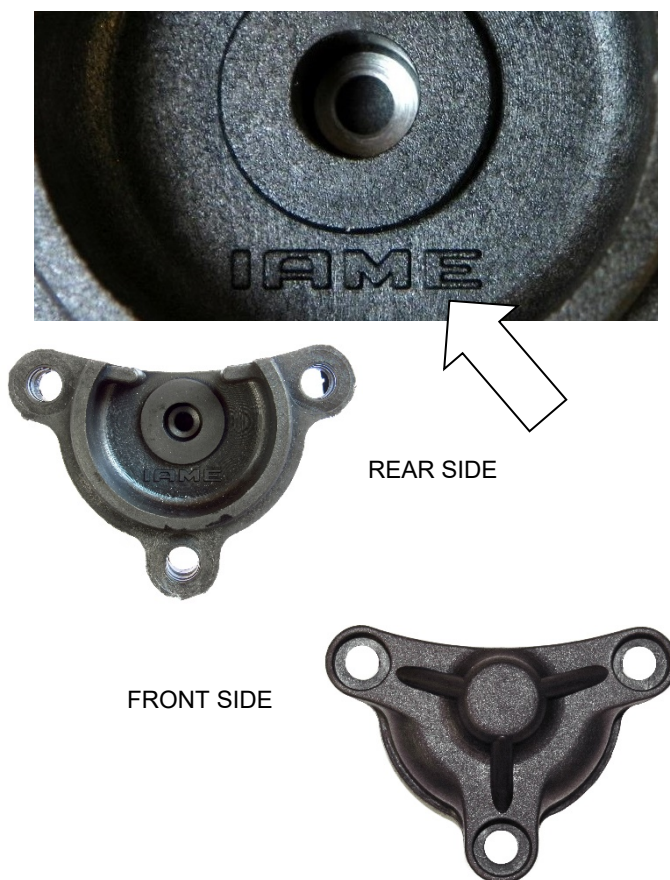
CARBURETTOR INLET CONVEYOR IDENTIFICATION MARKING



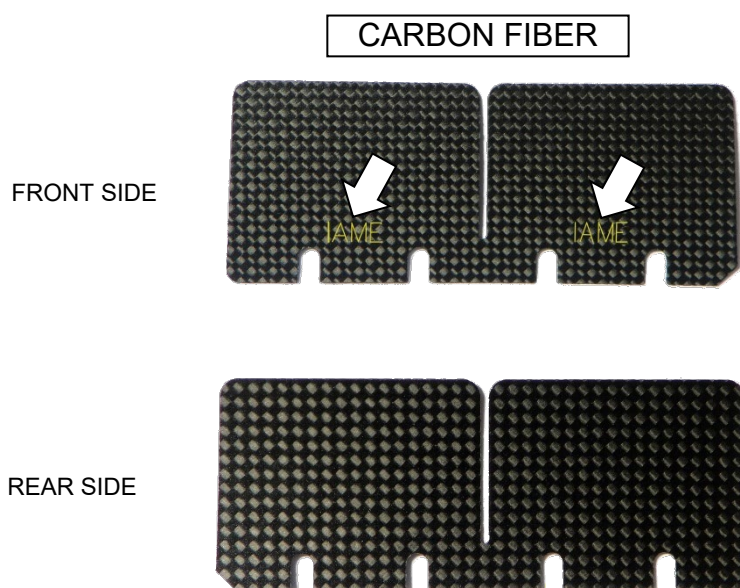
CLUTCH DRUM IDENTIFICATION MARKING



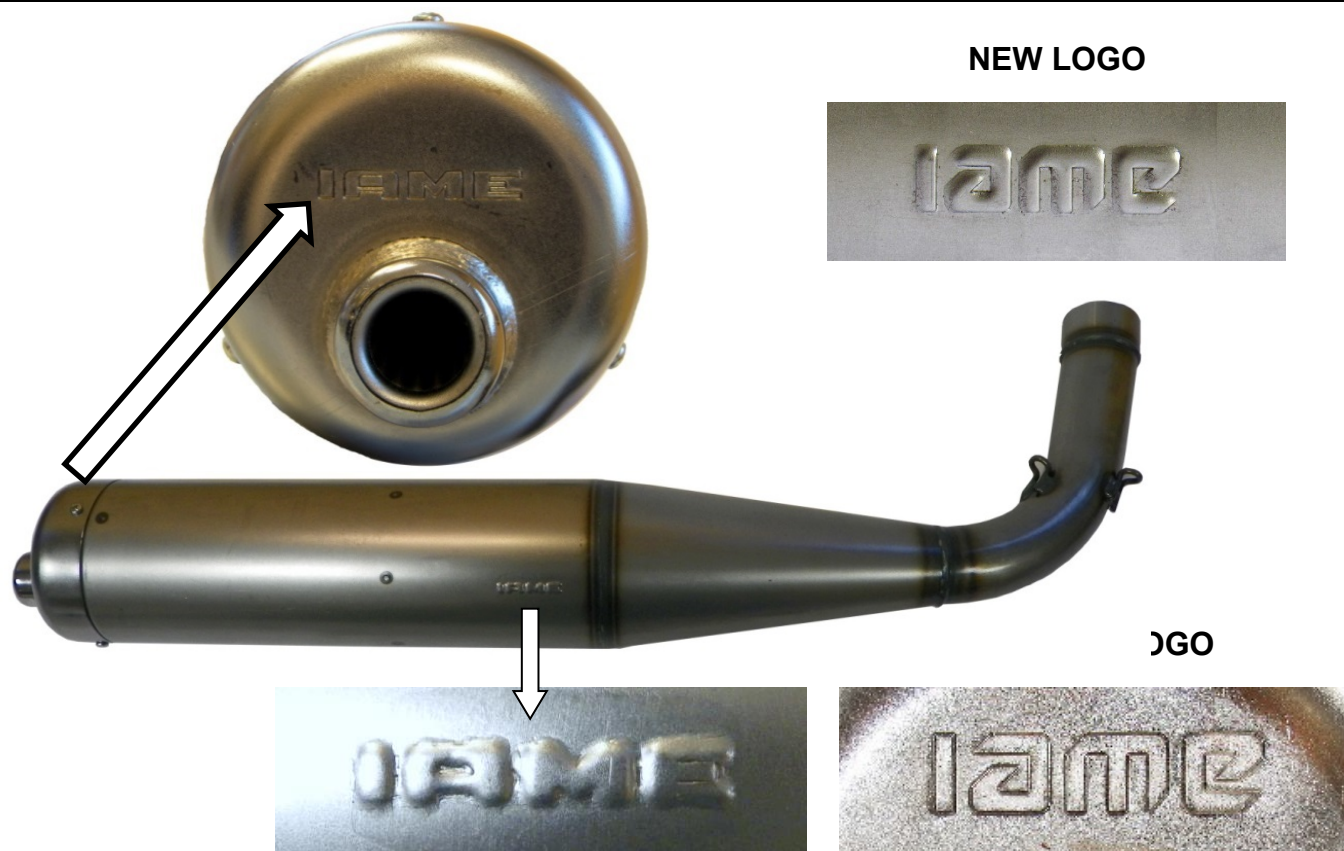
BENDIX COVER IDENTIFICATION MARKING



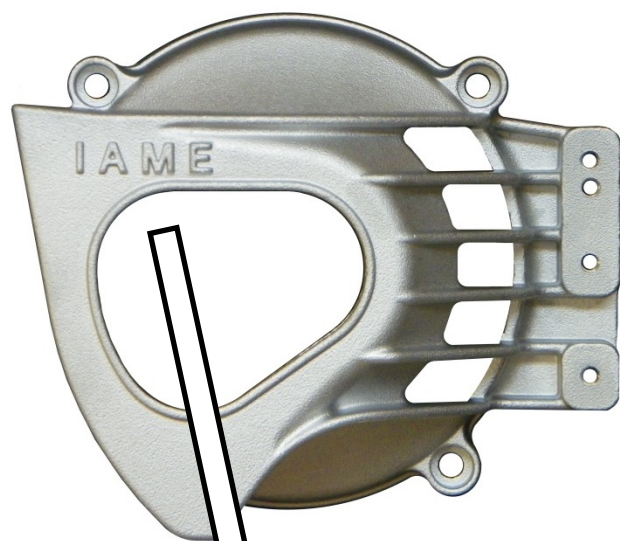
PETALS IDENTIFICATION MARKING



EXHAUST SILENCER IDENTIFICATION MARKING



CLUTCH COVER - ALTERNATIVE SHAPE, SURFACE FINISHING AND MARKING



NEW LOGO

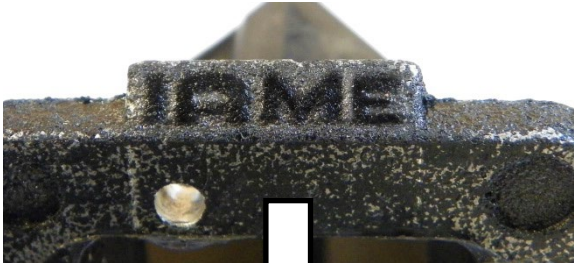
ALTERNATIVE



REED GROUP IDENTIFICATION MARKING

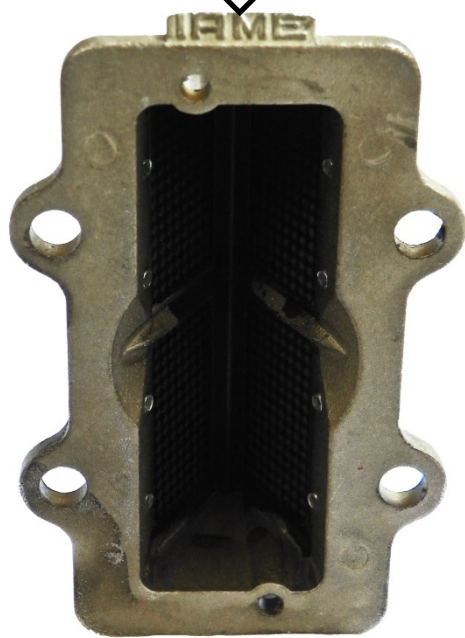
CURRENT VERSION

NEW LOGO

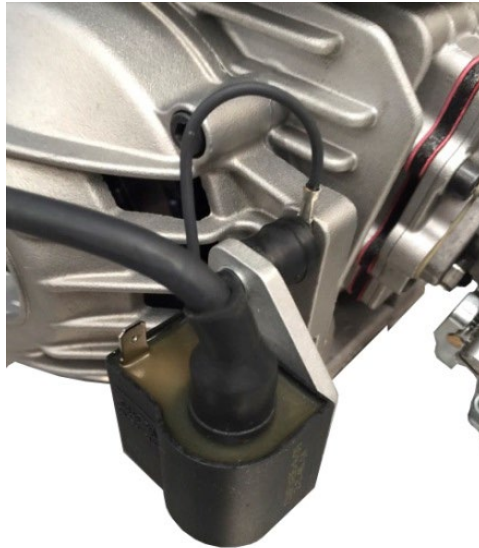


ALTERNATIVE VERSION

NEW LOGO



STANDARD INSTALLATION



ALTERNATIVE INSTALLATION



ALTERNATIVE CONROD

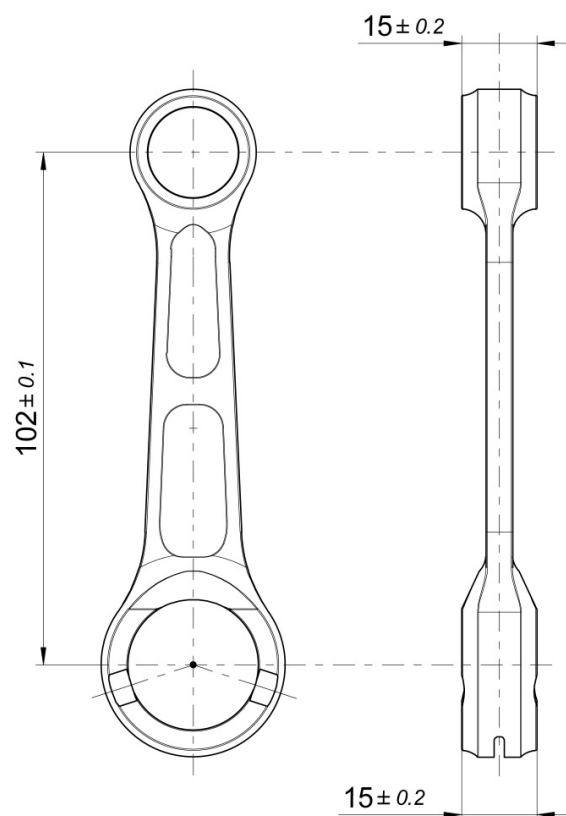


PHOTO OF THE CONROD BOTH SIDE – ALTERNATIVE

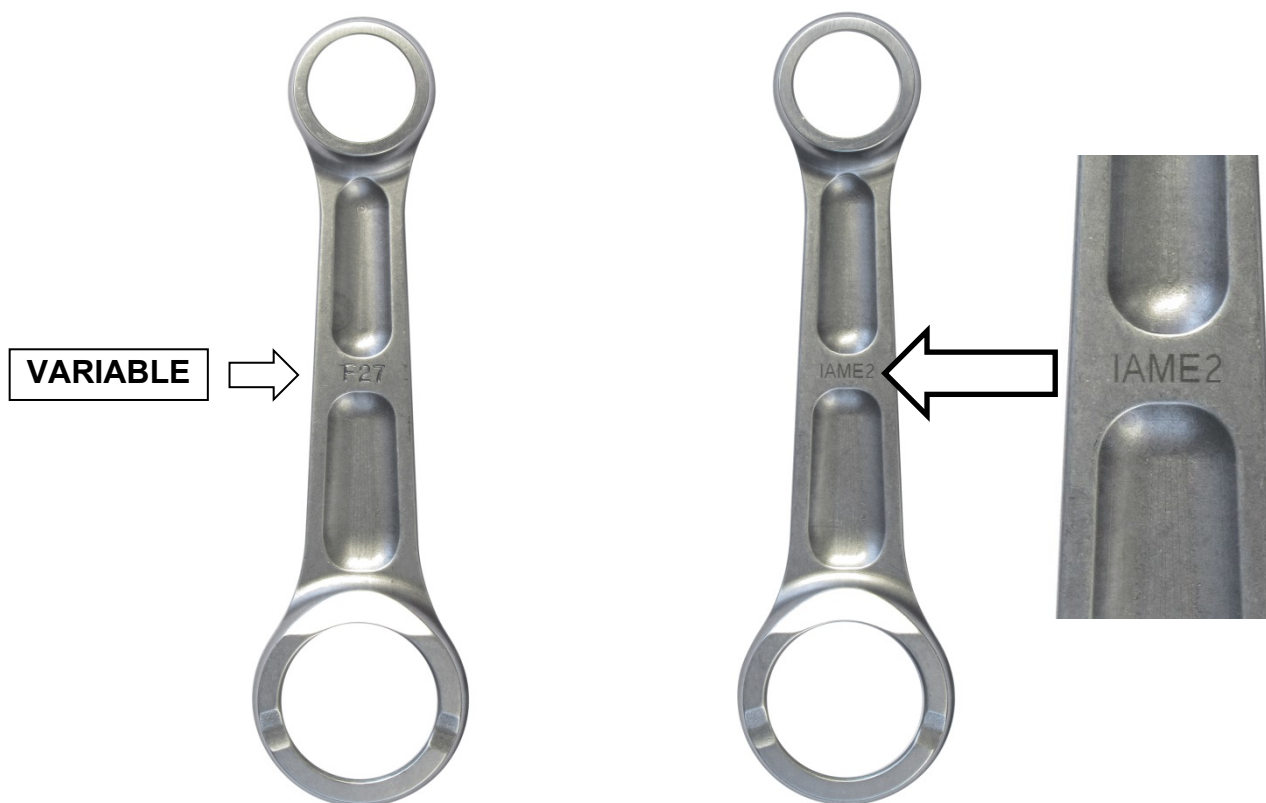


PHOTO IDENTIFICATION OF SMALL END CONROD BEARING – TYPES ALTERNATIVE

TYPE 1



TYPE 2



PHOTO IDENTIFICATION OF SILVER CONROD WASHER – TYPES ALTERNATIVE

TYPE 1



TYPE 2



PARTICULARS WITH ALTERNATIVE NEW LOGO "IAME"

SEMICARTER TRANSMISSION SIDE



NEW LOGO



STARTER SUPPORT



NEW LOGO



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

I A M E

or

IAME

NOW COULD BE MARKED WITH NEW LOGO "IAME"

I a m e

or

Q I a m e

or



CARBURETTOR

Tillotson HW-33A

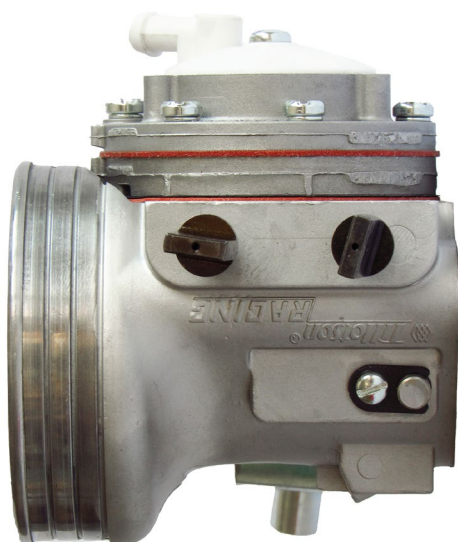


PHOTO OF ADJUSTING SIDE

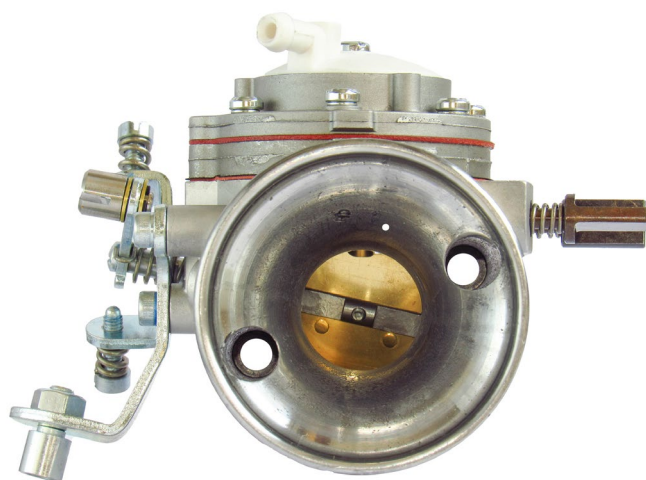
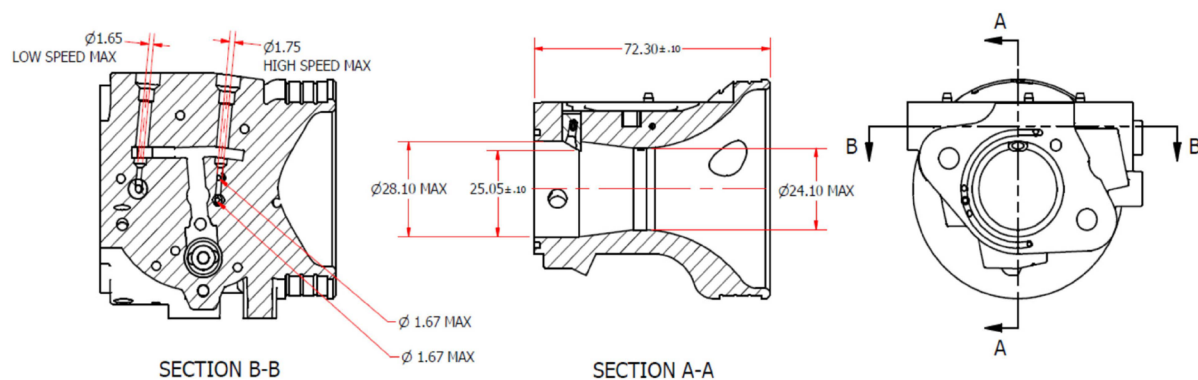


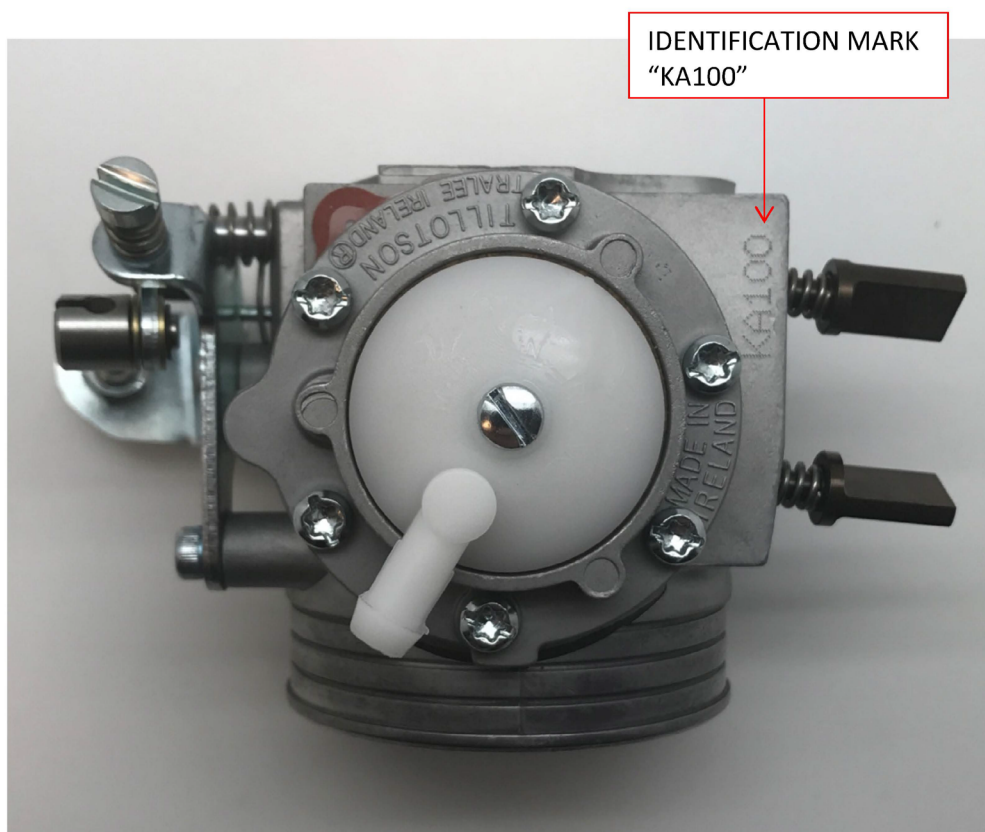
PHOTO OF INLET SIDE

Manufacturer	TILLOTSON LTD.
Make	TILLOTSON
Model	HW-33A

SECTION VIEW

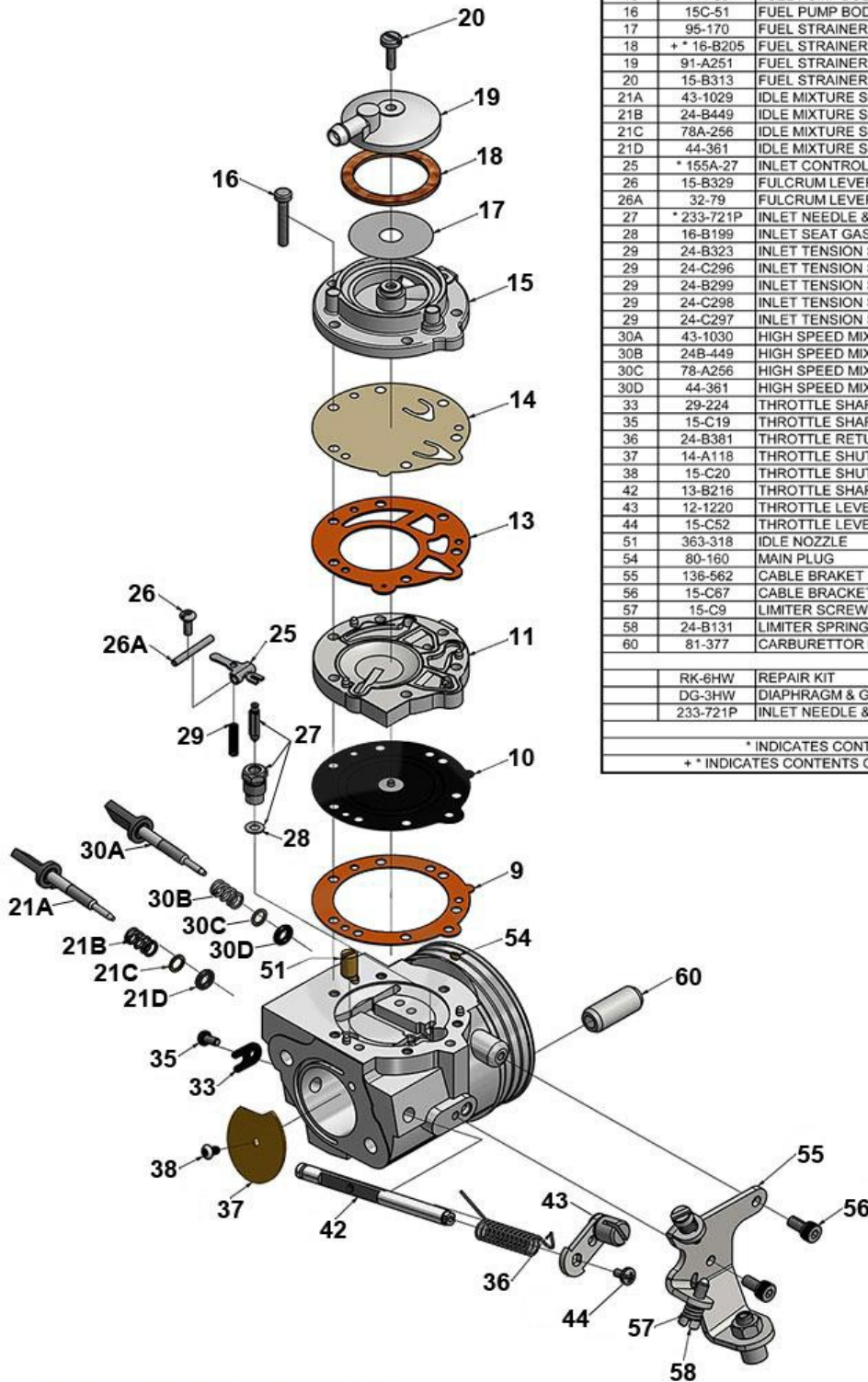


MARKING



CARBURETTOR DESCRIPTION AND SKETCH OF PARTS

HW-33A



HW-33A CARBURETTOR PARTS LIST			
ITEM	PART NO:	DESCRIPTION	QTY
9	+ * 16-B406	DIAPHRAGM GASKET	1
10	+ * 237-600	DIAPHRAGM	1
11	91A-275	DIAPHRAGM COVER	1
13	+ * 16-B407	FUEL PUMP GASKET	1
14	+ * 237-162	FUEL PUMP DIAPHRAGM	1
15	141-89	FUEL PUMP BODY	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	1
20	15-B313	FUEL STRAINER COVER RETAINING SCREW	1
21A	43-1029	IDLE MIXTURE SCREW	1
21B	24-B449	IDLE MIXTURE SCREW SPRING	1
21C	78A-256	IDLE MIXTURE SCREW WASHER	1
21D	44-361	IDLE MIXTURE SCREW PACKING	1
25	* 155A-27	INLET CONTROL LEVER	1
26	15-B329	FULCRUM LEVER SCREW	1
26A	32-79	FULCRUM LEVER PIN	1
27	* 233-721P	INLET NEEDLE & SEAT SET	1
28	16-B199	INLET SEAT GASKET	1
29	24-B323	INLET TENSION SPRING 26G	OPTION
29	24-C296	INLET TENSION SPRING 31G	OPTION
29	24-B299	INLET TENSION SPRING 37G	1
29	24-C298	INLET TENSION SPRING 42G	OPTION
29	24-C297	INLET TENSION SPRING 46G	OPTION
30A	43-1030	HIGH SPEED MIXTURE SCREW	1
30B	24B-449	HIGH SPEED MIXTURE SCREW SPRING	1
30C	78A-256	HIGH SPEED MIXTURE SCREW WASHER	1
30D	44-361	HIGH SPEED MIXTURE SCREW PACKING	1
33	29-224	THROTTLE SHAFT CLIP	1
35	15-C19	THROTTLE SHAFT CLIP RETAINING SCREW	1
36	24-B381	THROTTLE RETURN SPRING	1
37	14-A118	THROTTLE SHUTTER	1
38	15-C20	THROTTLE SHUTTER SCREW	1
42	13-B216	THROTTLE SHAFT	1
43	12-1220	THROTTLE LEVER ASSEMBLY	1
44	15-C52	THROTTLE LEVER RETAINING SCREW	1
51	363-318	IDLE NOZZLE	1
54	80-160	MAIN PLUG	2
55	136-562	CABLE BRACKET	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
RK-6HW REPAIR KIT			
DG-3HW DIAPHRAGM & GASKET			
233-721P INLET NEEDLE & SEAT SET			
* INDICATES CONTENTS OF REPAIR KIT			
+ * INDICATES CONTENTS OF DIAPHRAGM & GASKET SET			

Tillotson
RACING

Clash Industrial Estate - Tralee - Ireland
www.tillotson-racing.com

PARTS OF CARBURETTOR

**REF.8 - P. N°16-B406
DIAPHRAGM GASKET**



Thickness = 0.5 ± 0.1 mm

**REF.11 - P. N° 16-B407
PUMP DIAPHRAGM GASKET**



Thickness = 0.8 ± 0.1 mm

**REF.9 - P. N°237-600
DIAPHRAGM**



Thickness = 0.13 ± 0.07 mm

**REF.14 - P. N°237-162
PUMP DIAPHRAGM**



Thickness = 0.10 ± 0.063 mm

**REF.10 - P. N° 91-A275
DIAPHRAGM COVER**



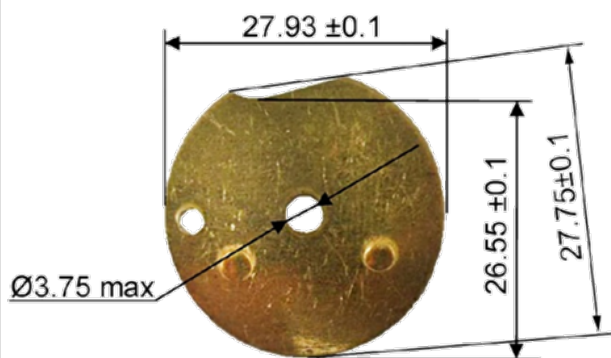
Thickness = 6.75 ± 0.15 mm

**REF.12 - P. N° 141-89
PUMP COVER**



Thickness = 12.5 ± 0.15 mm

REF.37 - P. N° 14-A118
THROTTLE SHUTTER



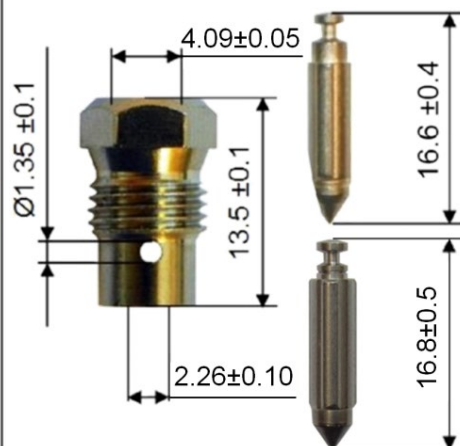
Thickness = $0.84 \pm 0.1 \text{ mm}$

ALTERNATIVE SHAPE



REF.27 - P. N° 233-721P
SEAT + NEEDLE

TYPE 1



TYPE 2

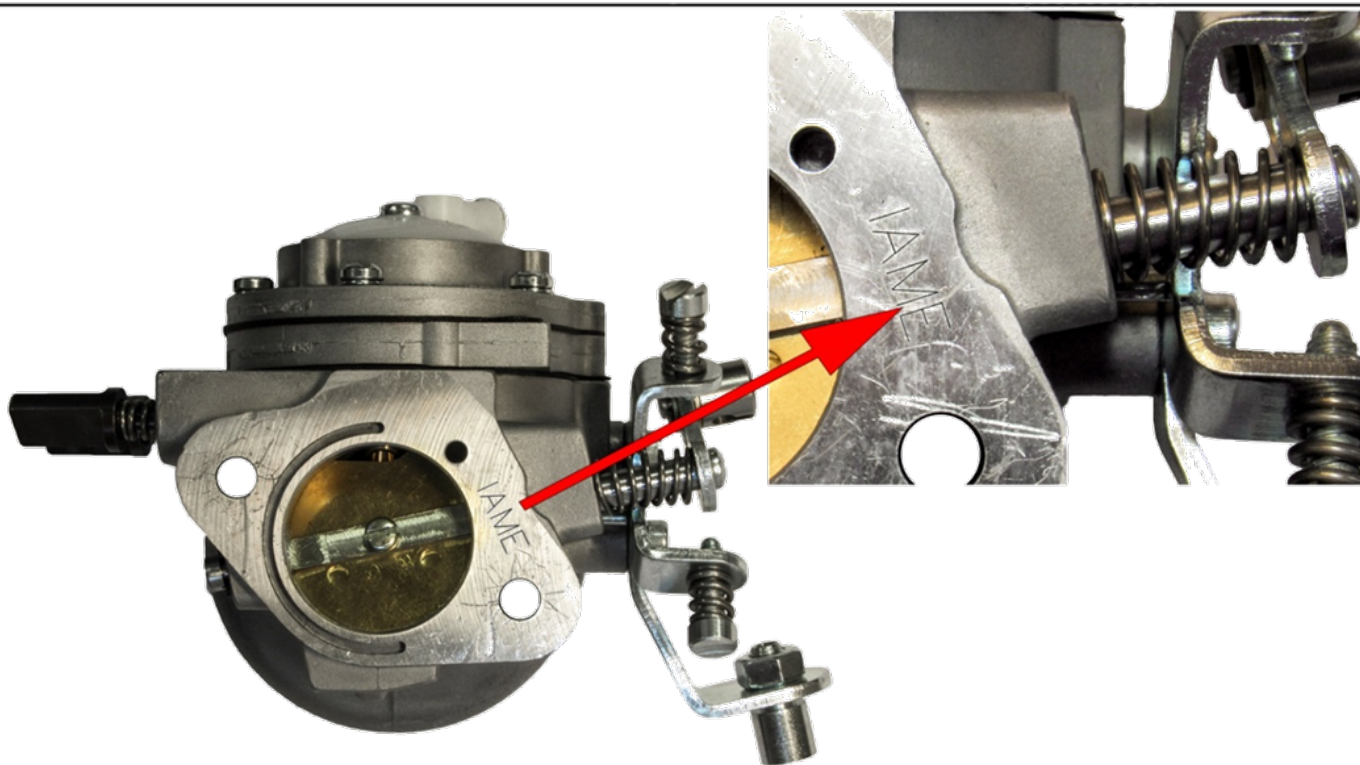
REF.21A - P. N° 43-1029
NEEDLE LOW SPEED



REF.30A - P. N° 43-1030
NEEDLE HIGH SPEED

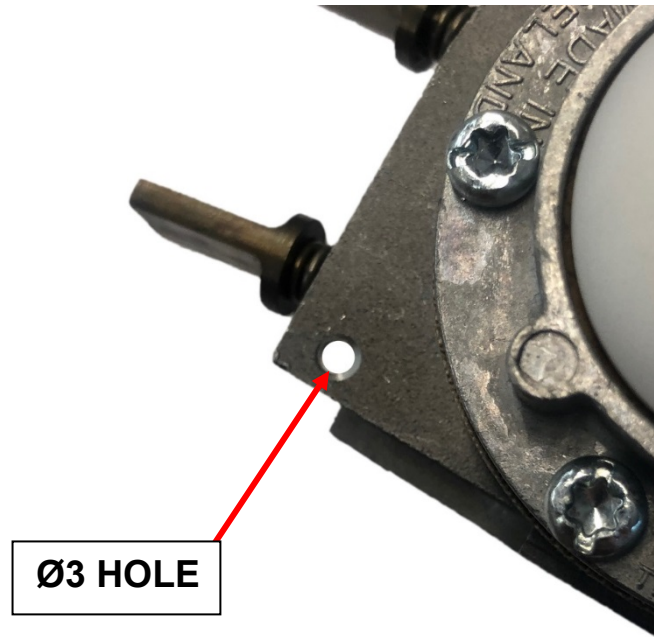


IAME IDENTIFICATION MARKING



HOLE FOR CARBURETTOR SEALING

The carburettor can have this hole for sealing



ATOMIZER - HEIGHT LIMITS AND CHECKING TOOL

