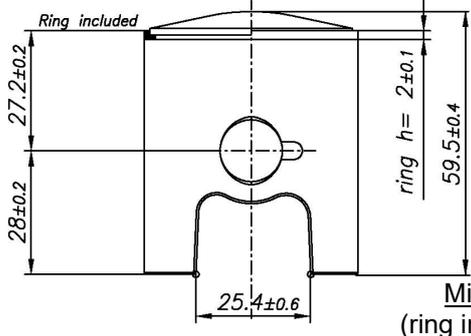
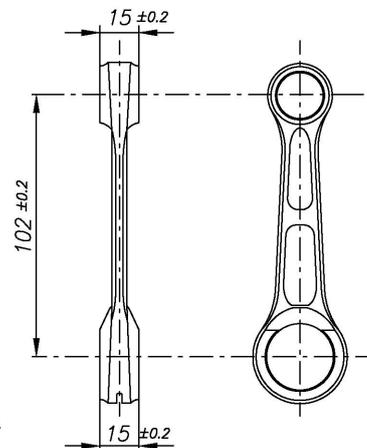


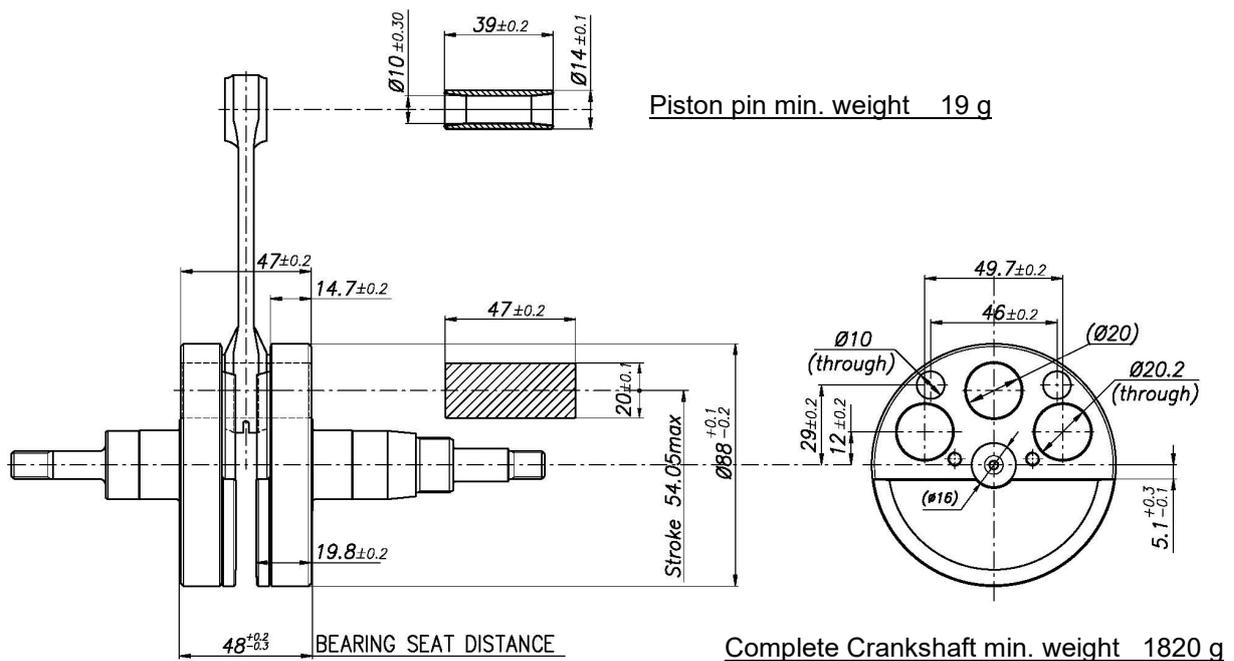
100CC REEDJET USA - TAG

FEATURES

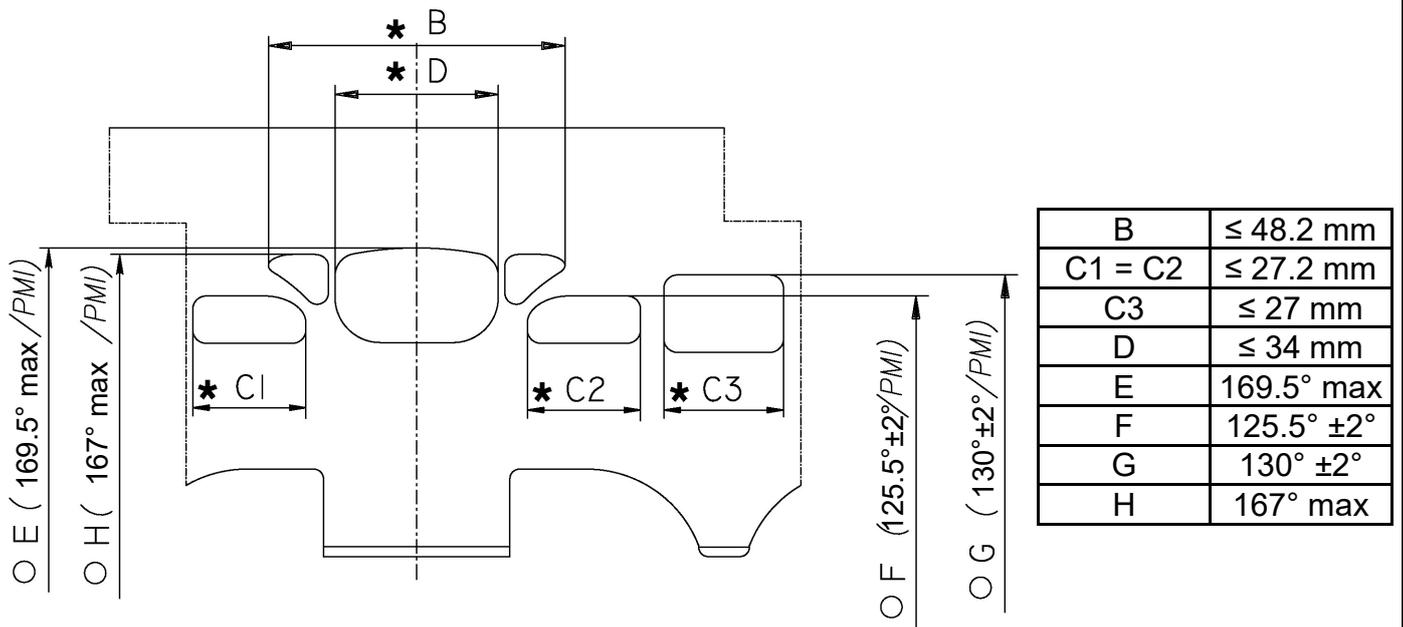
		Cylinder Volume	100 cm ³ max
		Bore	48.20 mm
		Max. theoretical bore	48.53 mm
		Stroke	54.05 mm max
		Cooling system	Air
		Inlet system	Reed valve
		Number of carbs	1
Tillotson Carburettor	HW-33A Ø24mm	Cylinder / crankcase transfers n°	3 / 3
Number of piston rings	1	Transfers / Exhaust ports number	3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

DESCRIPTION OF THE MATERIAL		PISTON
Conrod material	Steel	
Crankshaft material	Steel	
Head material	Aluminium	
Cylinder material	Aluminium	
Liner material	Cast Iron	
Liner material	Cast Iron	DISTANCE BETWEEN CONROD CENTERS
Crankcase material	Aluminium	
Piston material	Aluminium	
Piston rings material	Cast Iron	
Exhaust muffler material	Sheet-steel	
Ball-bearings	6205 type	

CRANKSHAFT



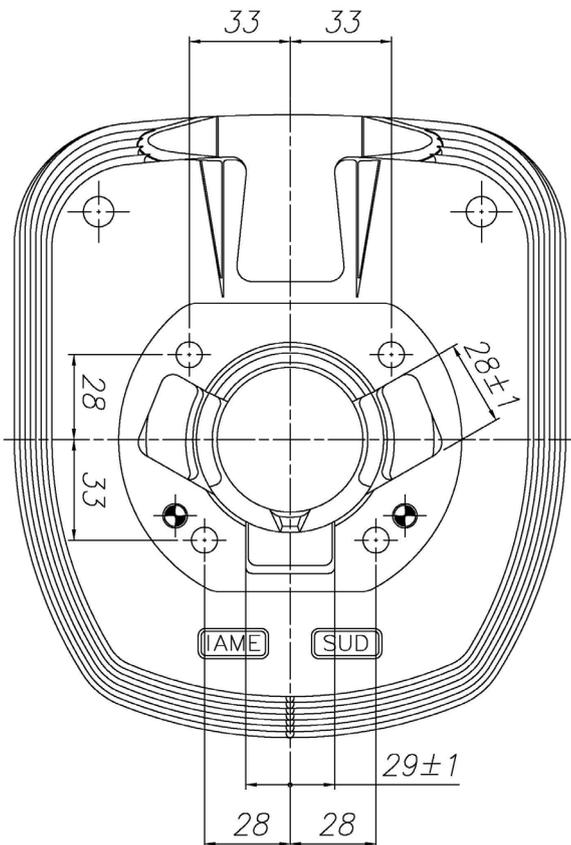
CYLINDER DEVELOPMENT



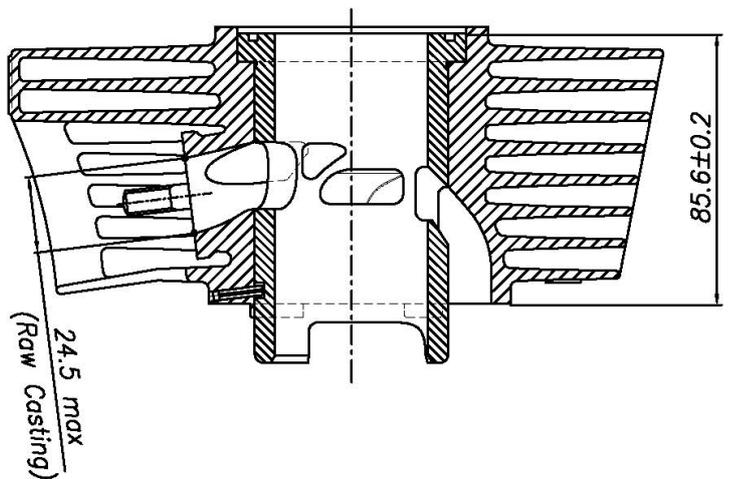
* CHORDAL READING

○ ANGULAR READING BY INSERTING A 0.2x5 mm GAUGE

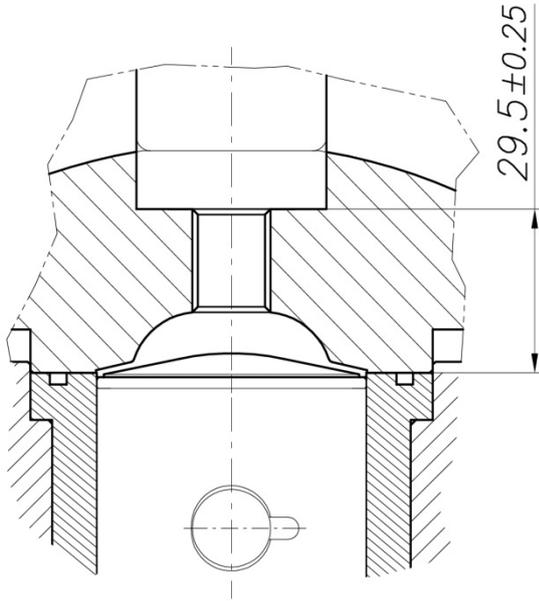
CYLINDER BASE VIEW



CYLINDER CROSS SECTION VIEW

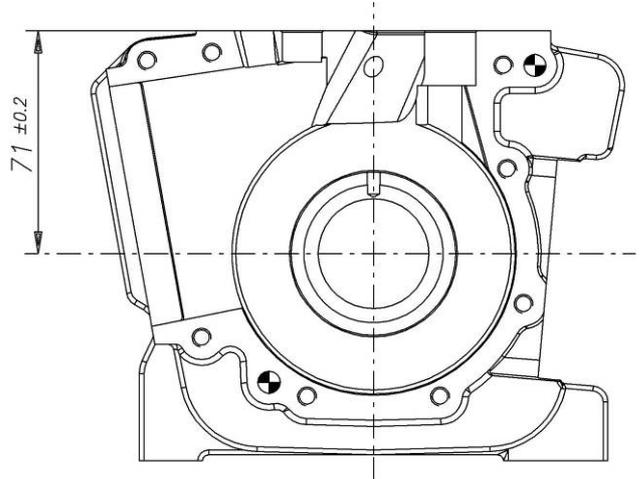


COMBUSTION CHAMBER VIEW

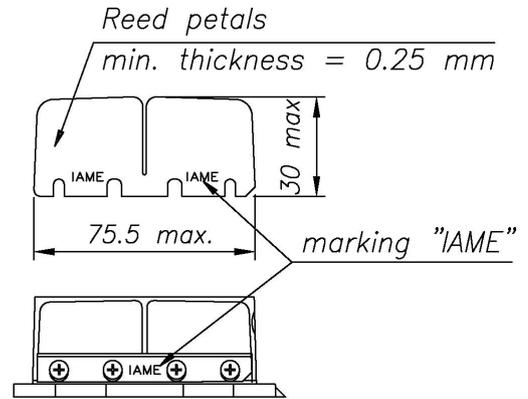


SQUISH MIN.= 0.0413" (1.05 mm)
 (measured with 0.0625" (1/16") / Ø1.58mm solder)

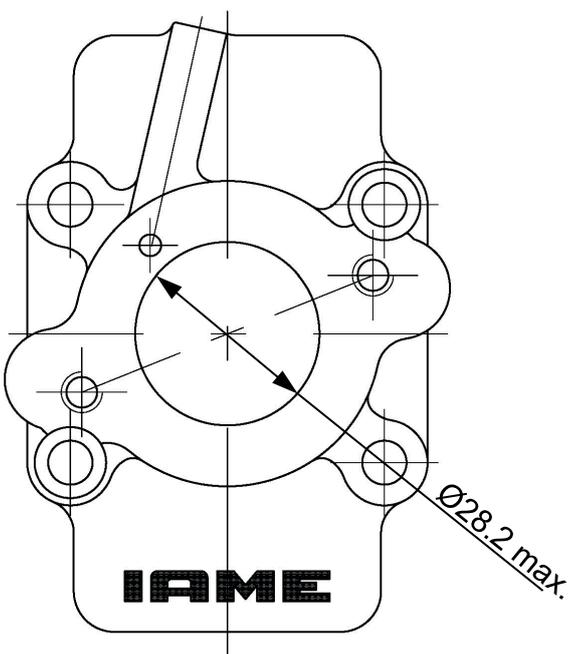
CRANKCASE INSIDE VIEW



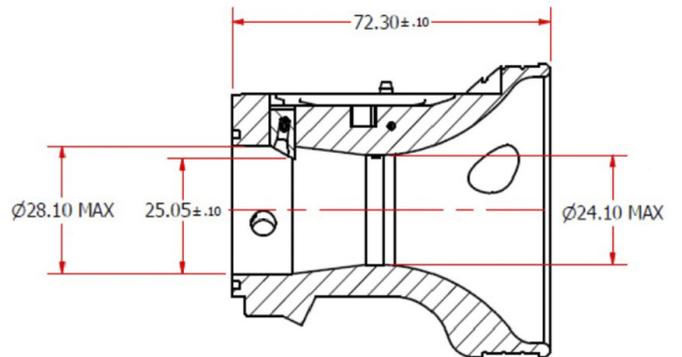
REEDS DIMENSIONS



INLET CONVEYOR DIMENSIONS



VENTURI CARB. DIMENSIONS

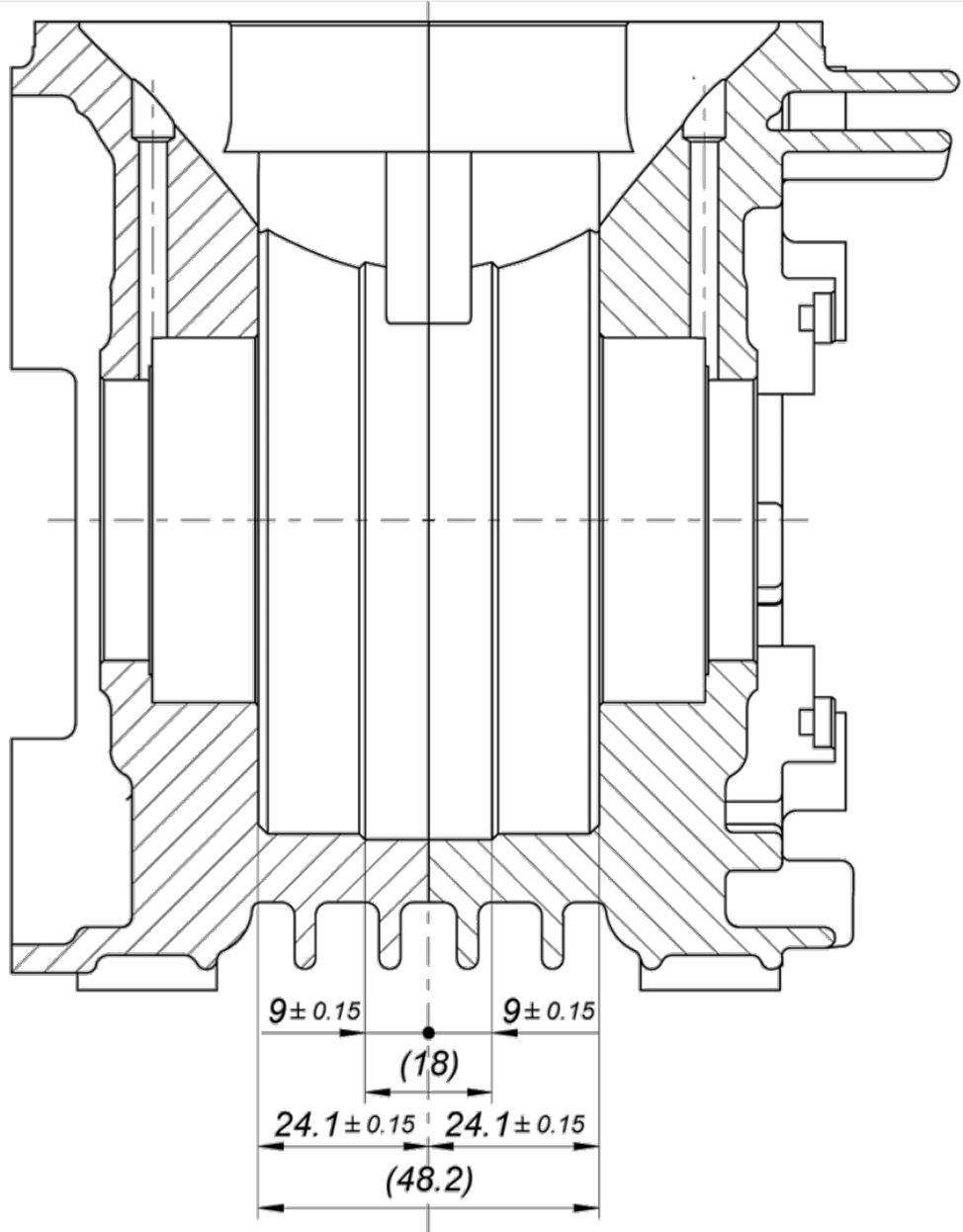


TILLOTSON MOD. HW-33A

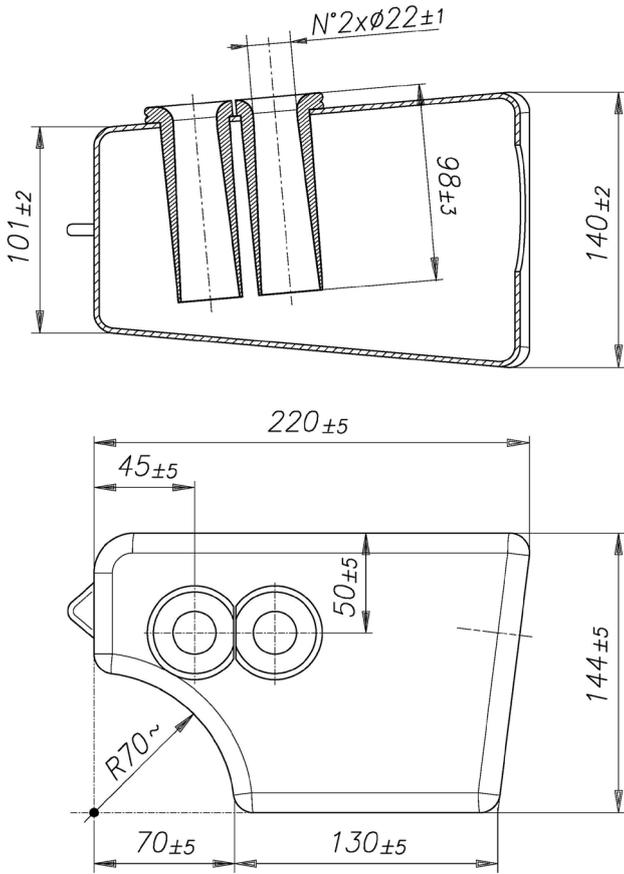
CRANKCASE WIDTH DIMENSIONS

DRIVE SIDE

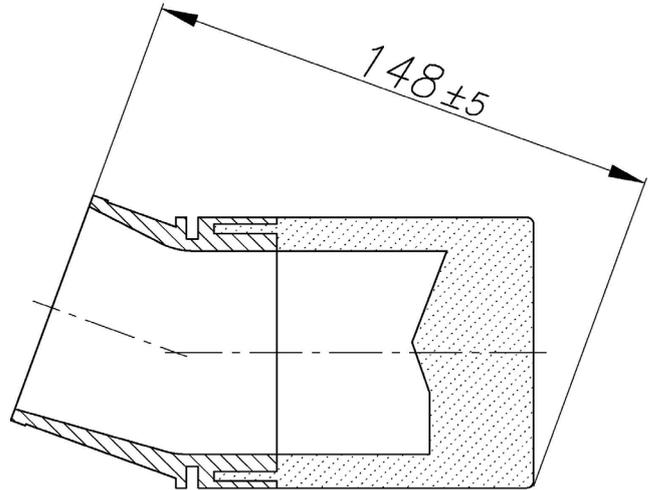
IGNITION SIDE



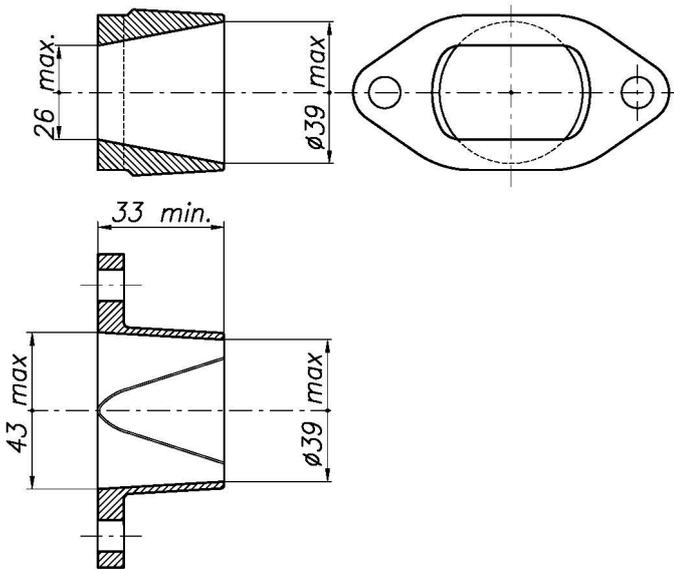
INLET SILENCER



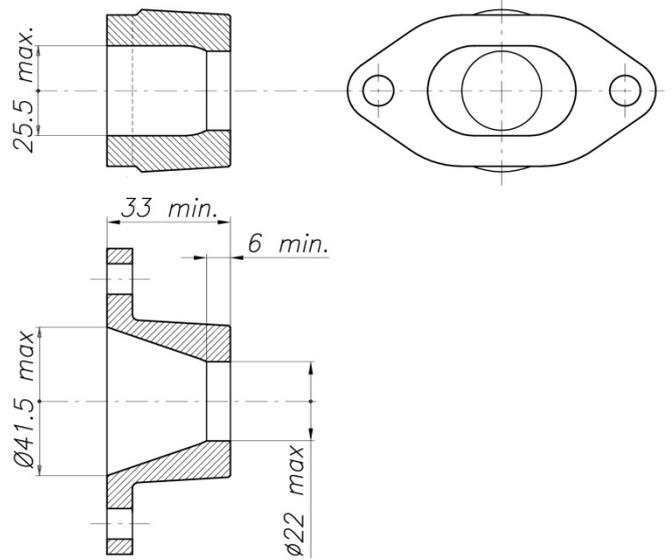
SPONGE FILTER INLET SILENCER



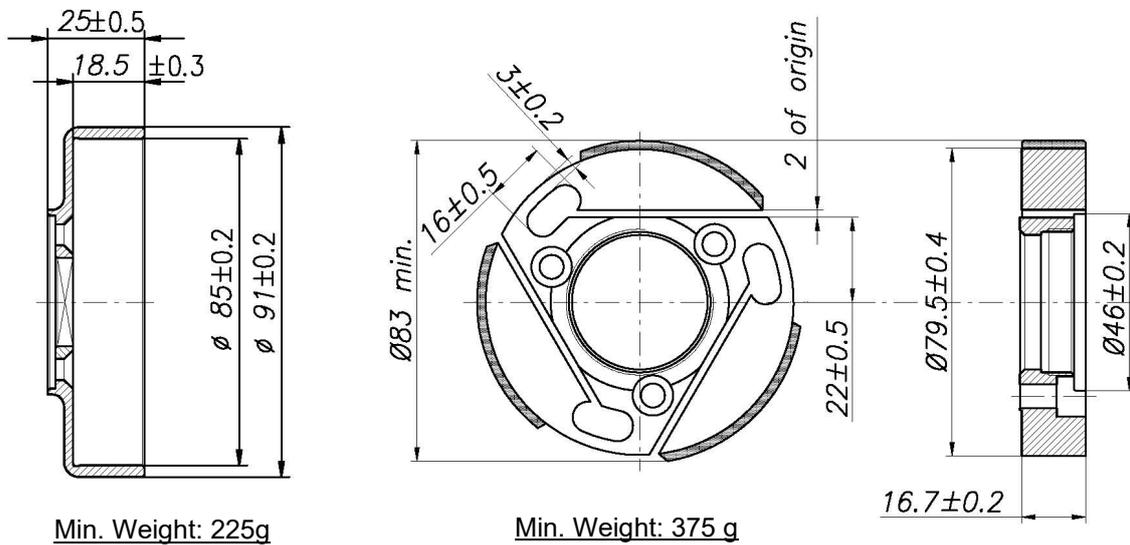
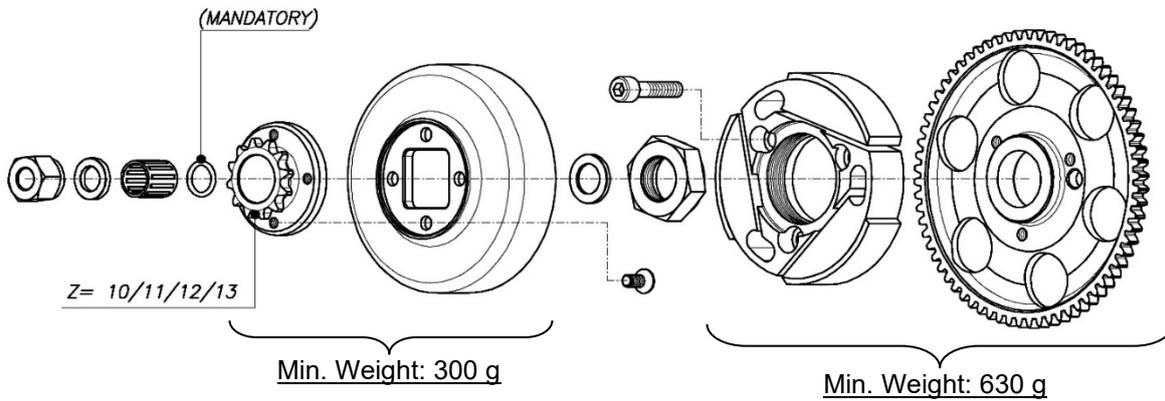
EXHAUST MANIFOLD



EXHAUST MANIFOLD RESTRICTED

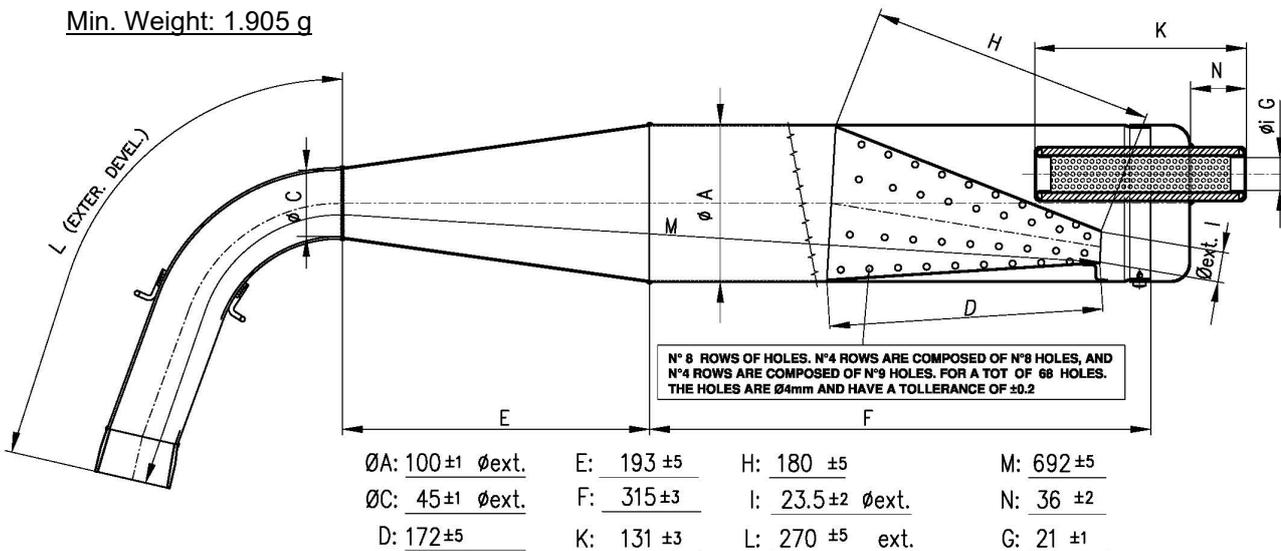


DESCRIPTION OF THE CLUTCH



EXHAUST MUFFLER VIEW AND DIMENSIONS

Min. Weight: 1.905 g



WIRING DIAGRAM

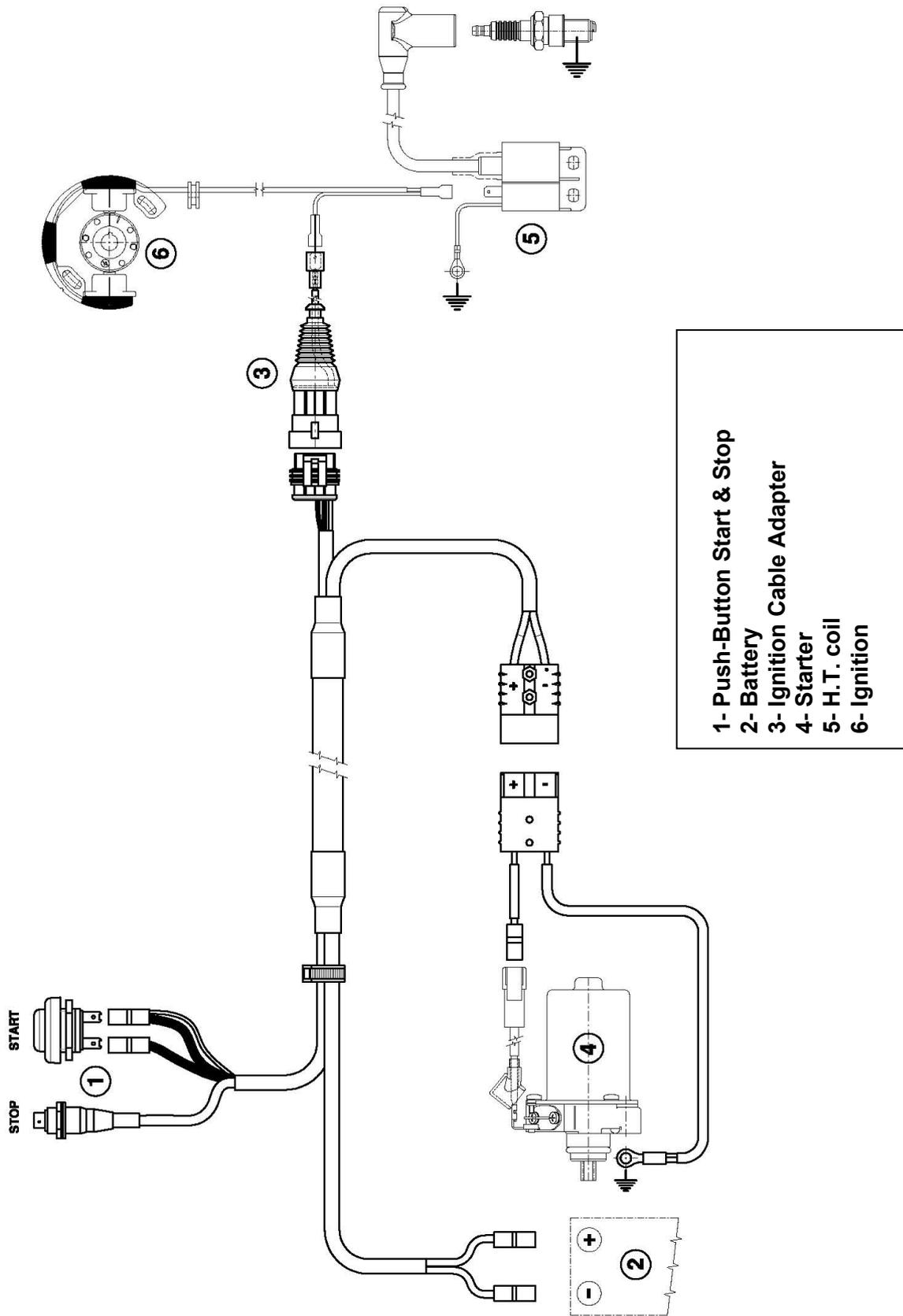
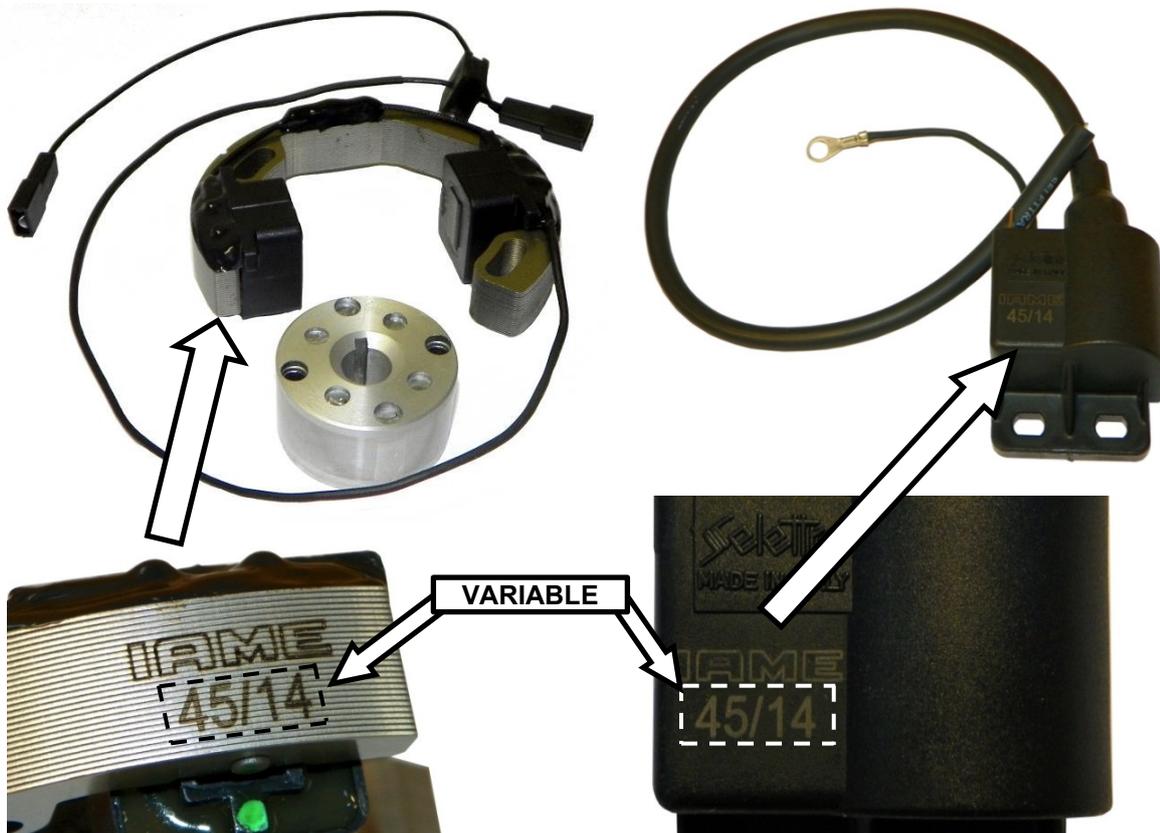


PHOTO COMPLETE WIRING



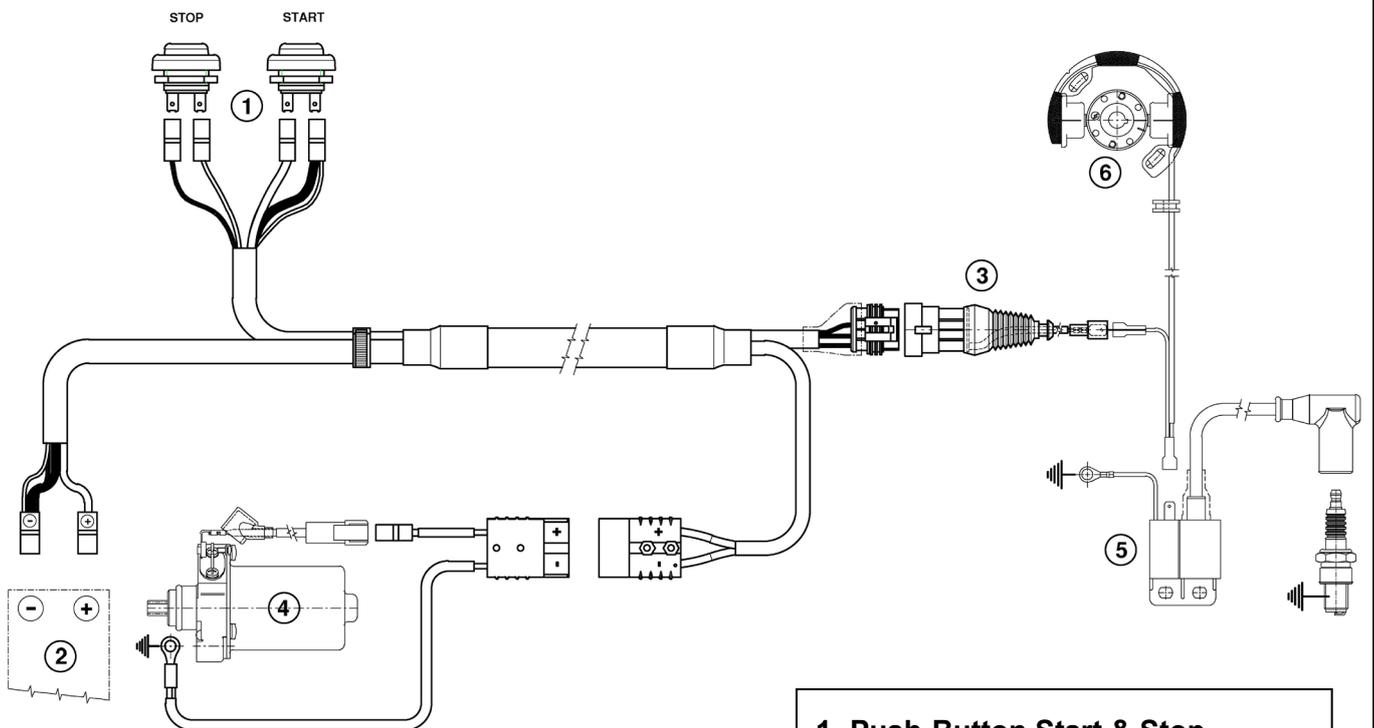
PHOTO OF IGNITION / PHOTO OF H.T. COIL (SELETTRA ANALOGUE 2 POLES)



ALTERNATIVE WIRING LOOM



ALTERNATIVE WIRING LOOM DIAGRAM

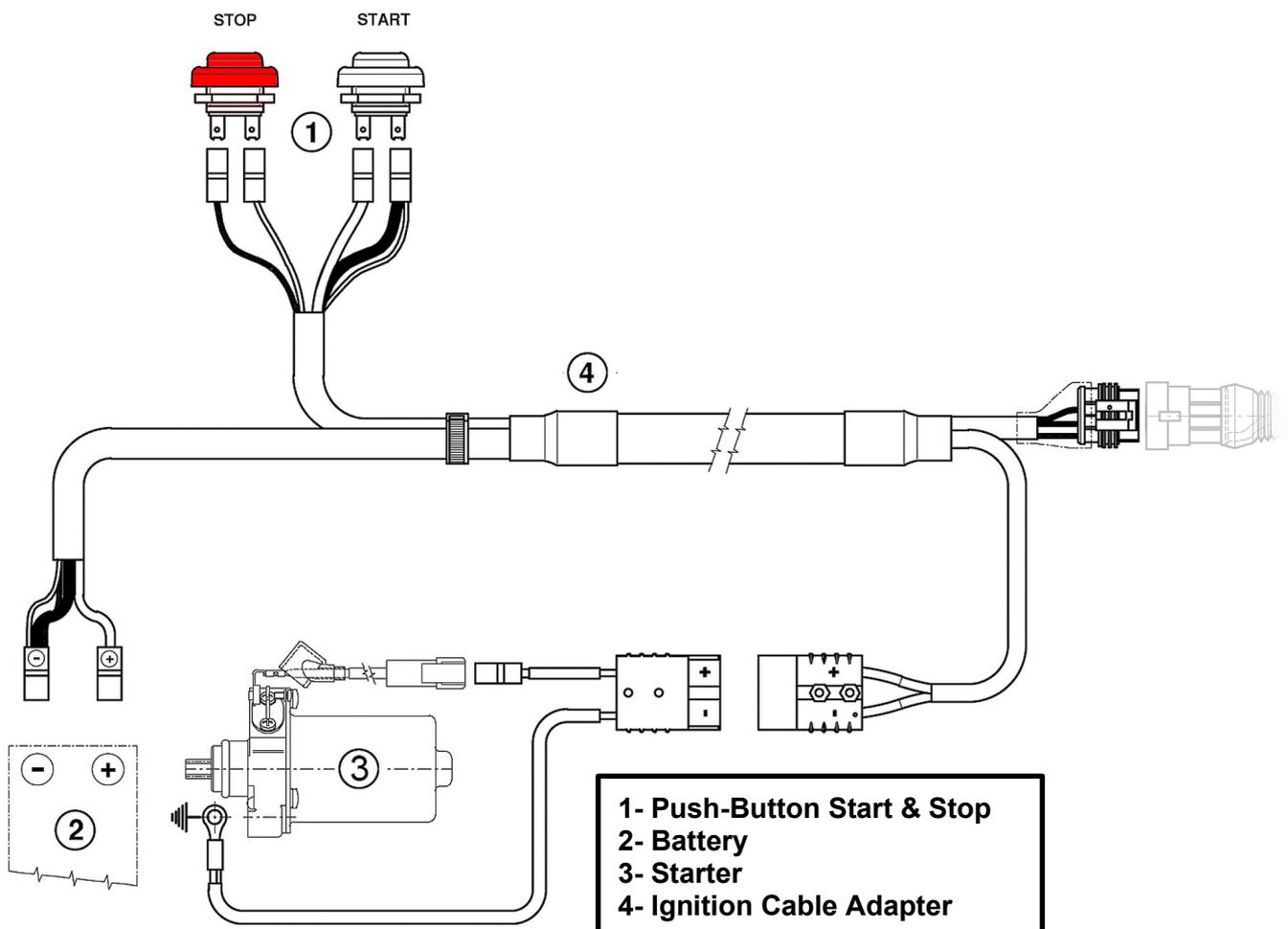


- 1- Push-Button Start & Stop**
- 2- Battery**
- 3- Ignition Cable Adapter**
- 4- Starter**
- 5- H.T. coil**
- 6- Ignition**

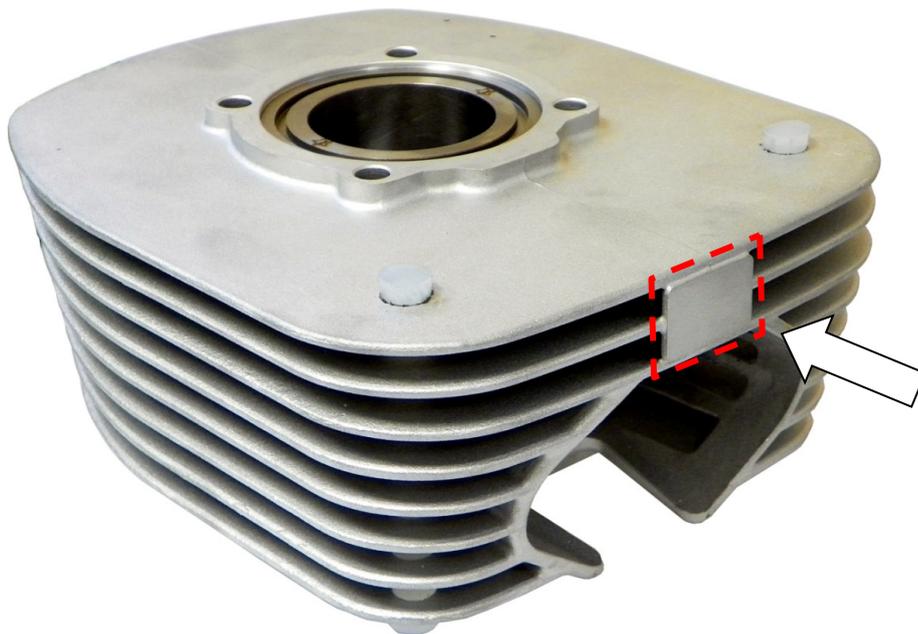
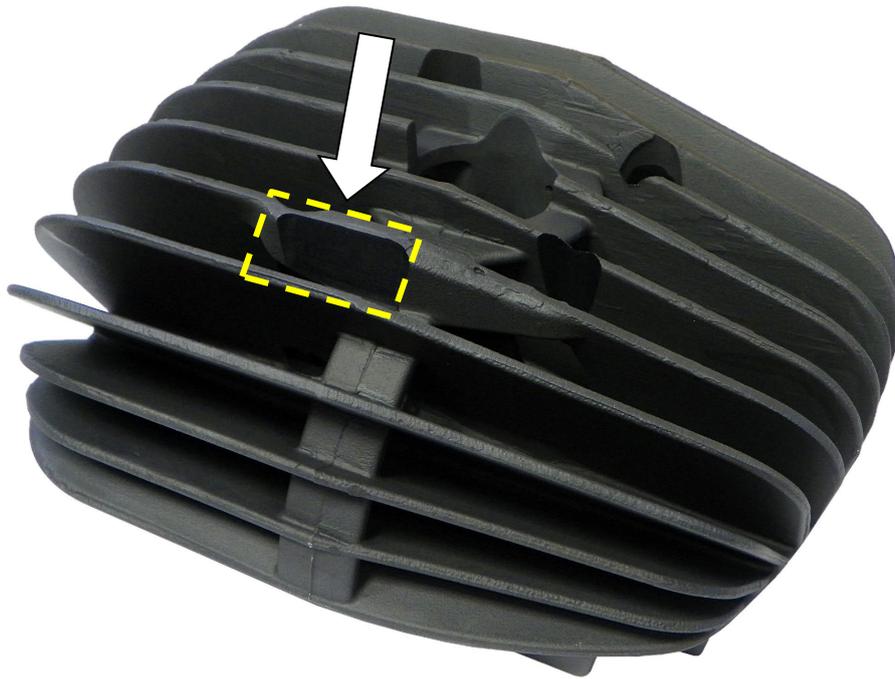
ALTERNATIVE WIRING LOOM



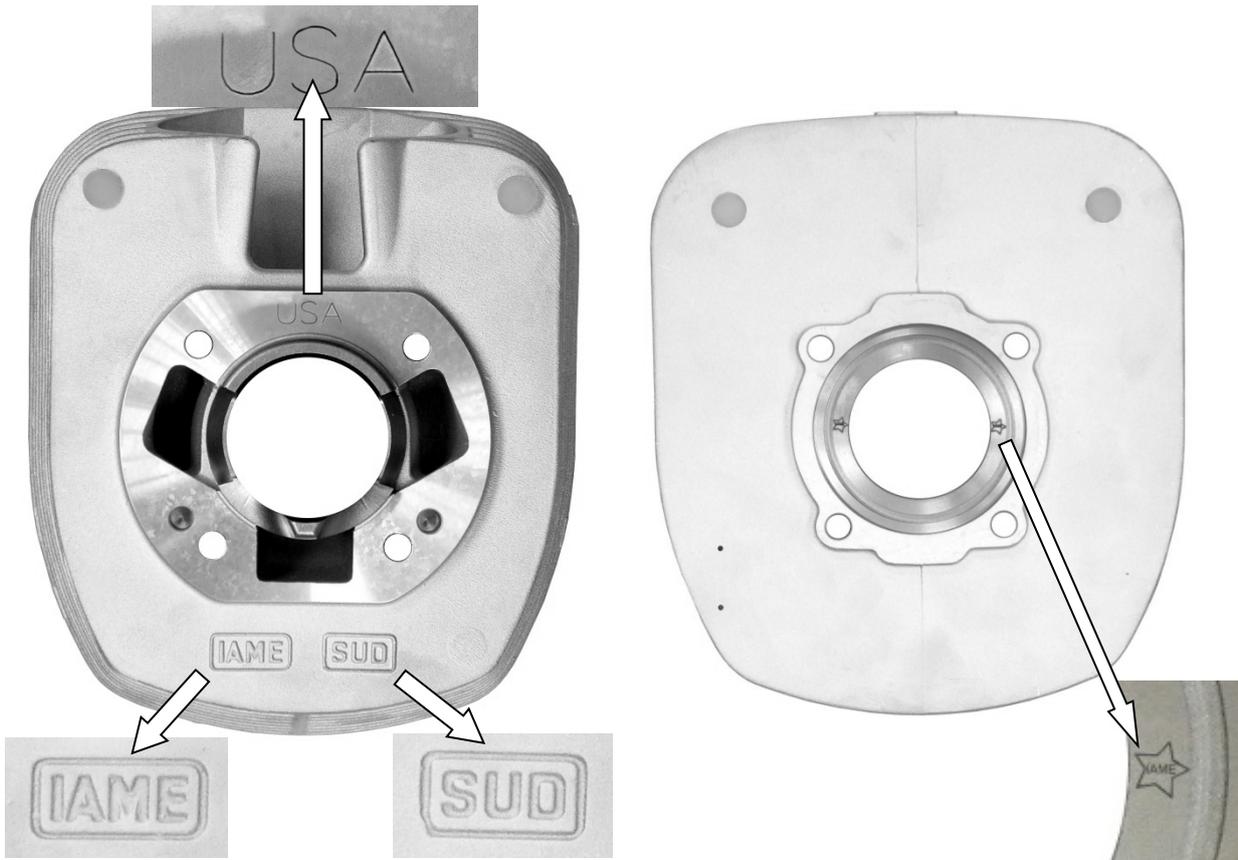
ALTERNATIVE WIRING LOOM DIAGRAM



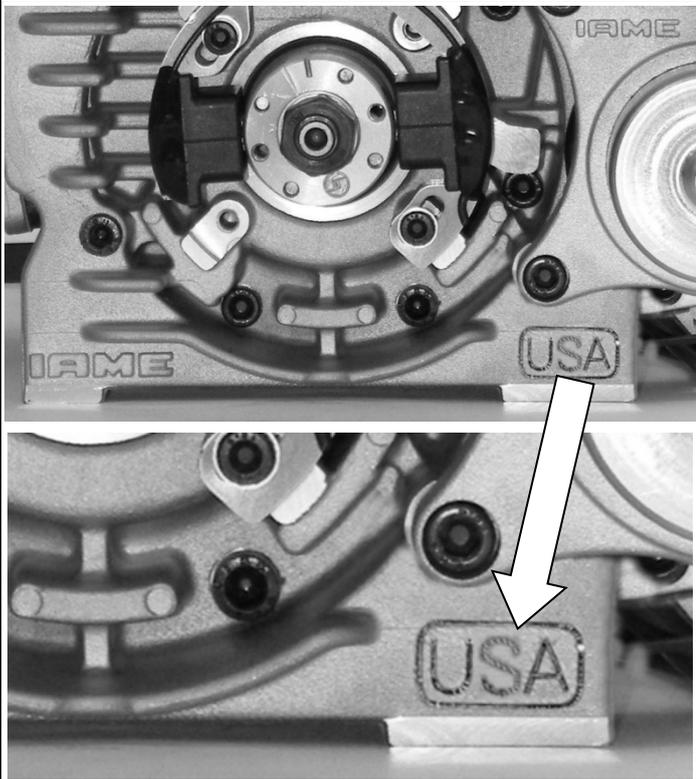
STICKER APPLICATION AREA



CYLINDER IDENTIFICATION MARKING



CRANKCASE IDENTIFICATION MARKING



HEAD IDENTIFICATION MARKING



INLET SILENCER - "IAME" IDENTIFICATION MARKING



PISTON IDENTIFICATION MARKING

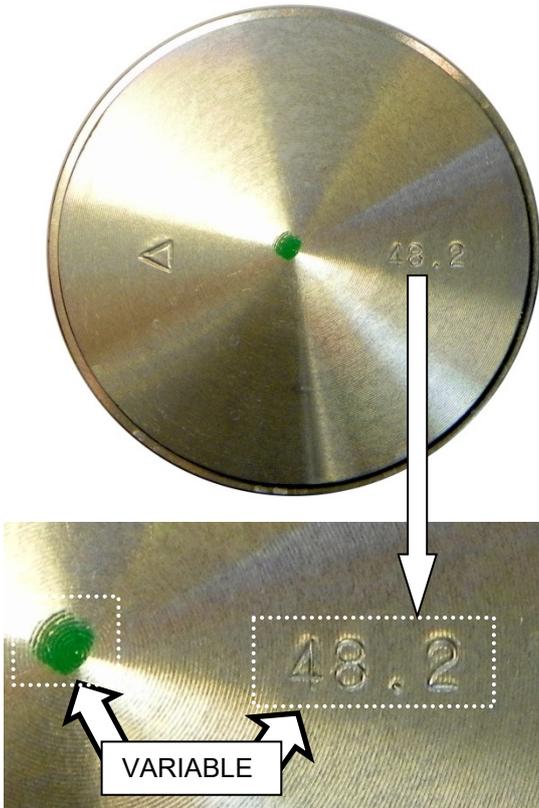
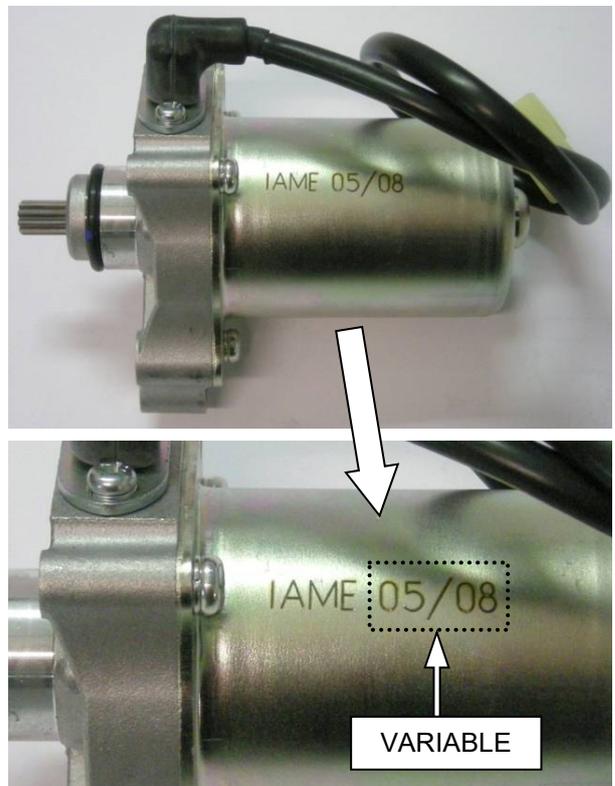


PHOTO IDENTIFICATION CONROD



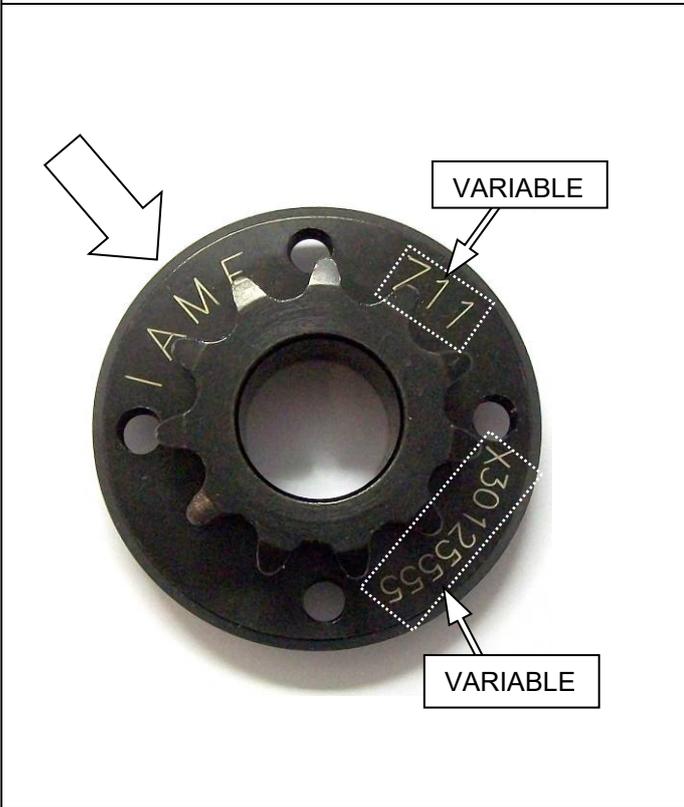
STARTER IDENTIFICATION MARKING



CRANKSHAFT IDENTIFICATION MARKING



SPROCKET IDENTIFICATION MARKING



STARTER RING IDENTIFICATION MARKING



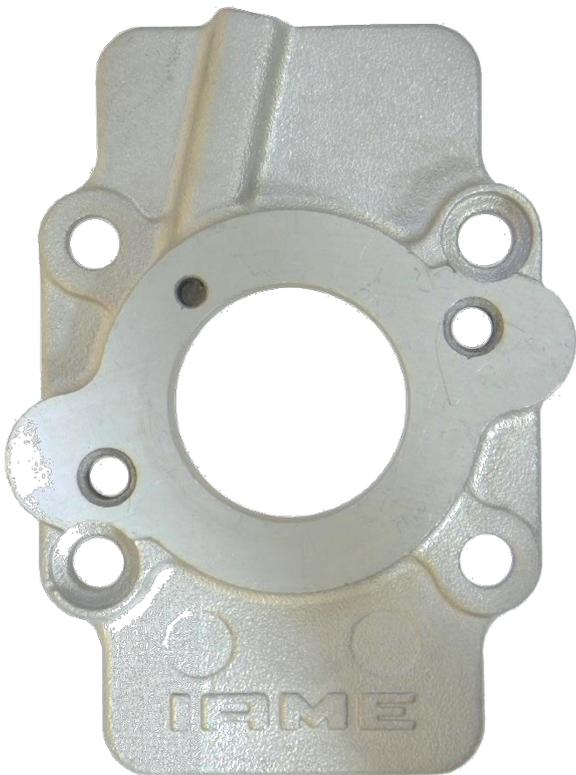
CLUTCH BODY IDENTIFICATION MARKING



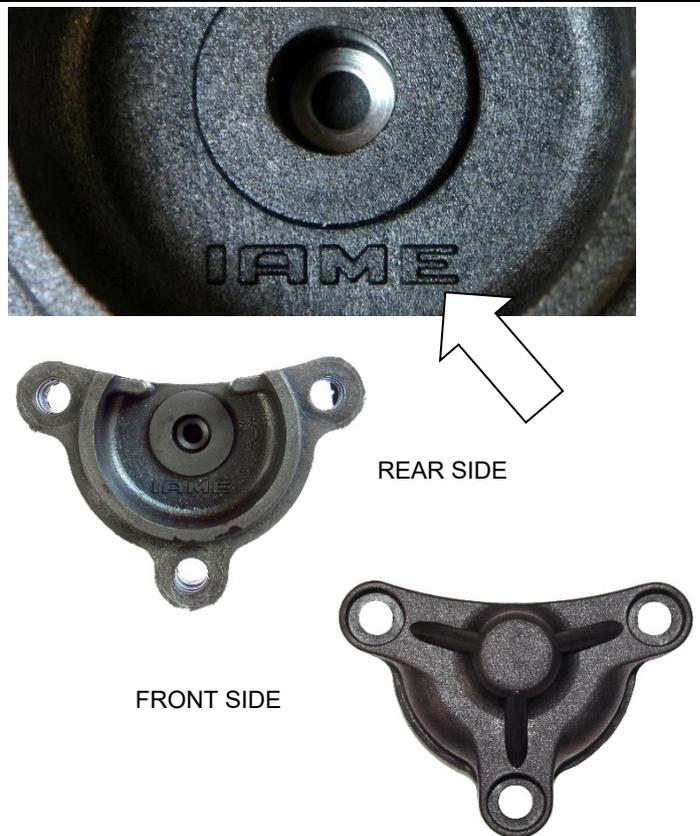
CLUTCH DRUM IDENTIFICATION MARKING



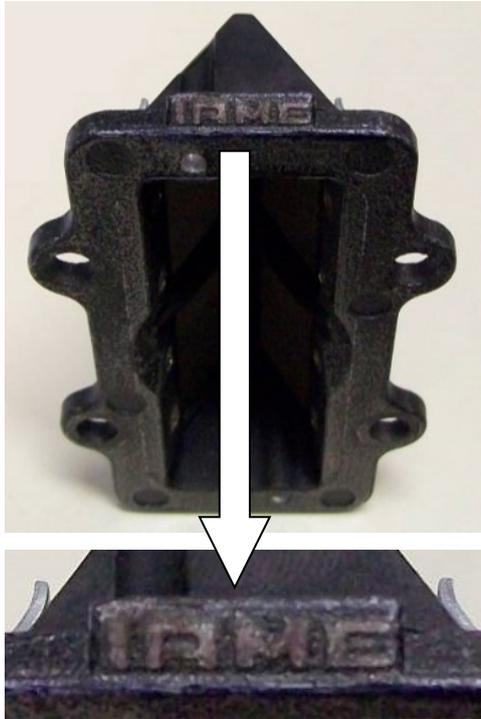
PHOTO IDENTIFICATION CARBURETOR INLET CONVEYOR



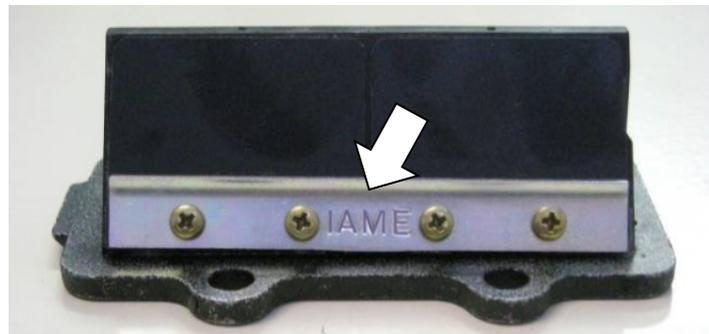
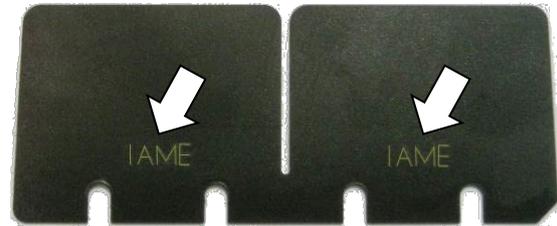
BENDIX COVER IDENTIFICATION MARKING



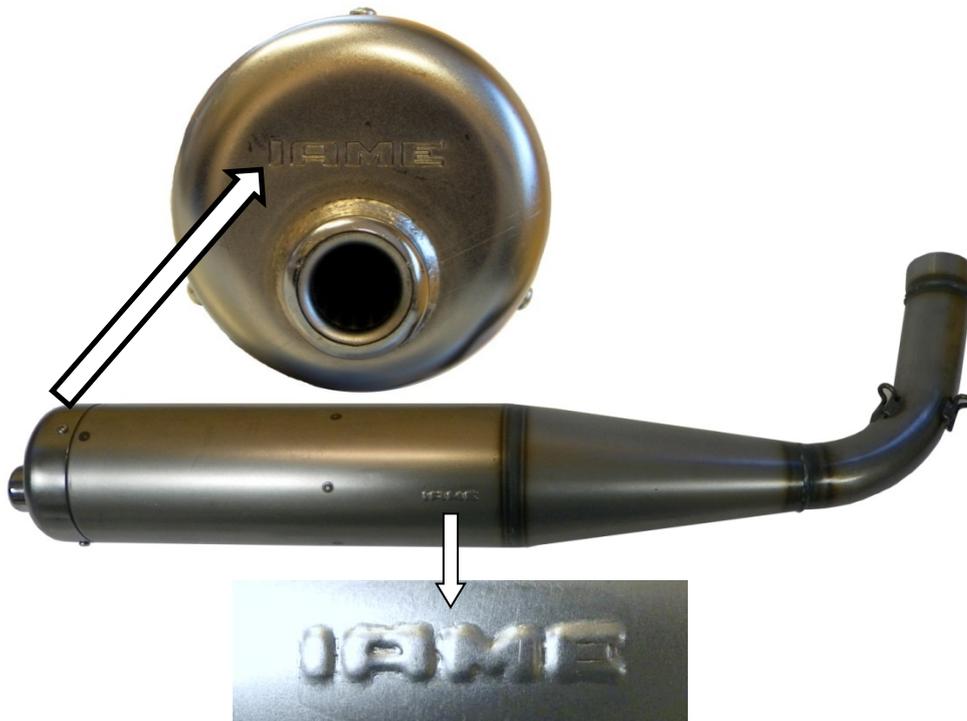
REED GROUP & PETALS IDENTIFICATION MARKING



FIBER GLASS



EXHAUST SILENCER IDENTIFICATION MARKING



CLUTCH COVER - ALTERNATIVE SHAPE AND SURFACE FINISHING



ALTERNATIVE



PHOTO IDENTIFICATION REED GROUP

CURRENT VERSION



ALTERNATIVE VERSION



ALTERNATIVE INSTALLATION OF GROUND CABLE ON THE CRANKCASE

STANDARD INSTALLATION



ALTERNATIVE INSTALLATION





CARBURETTOR
Tillotson HW-33A



PHOTO OF ADJUSTING SIDE

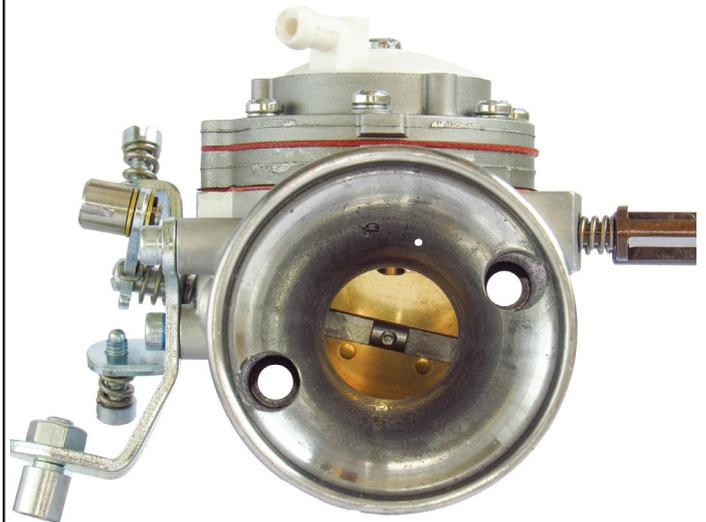
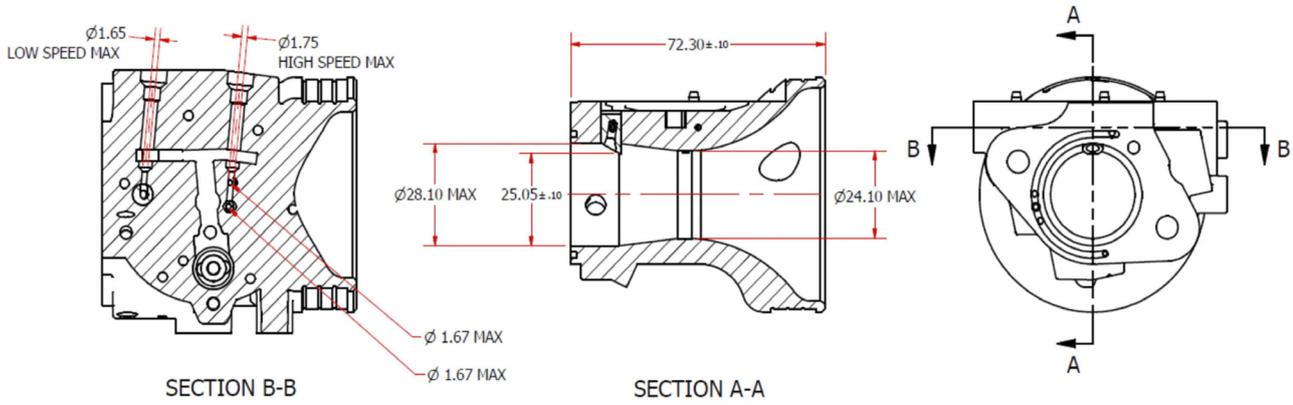


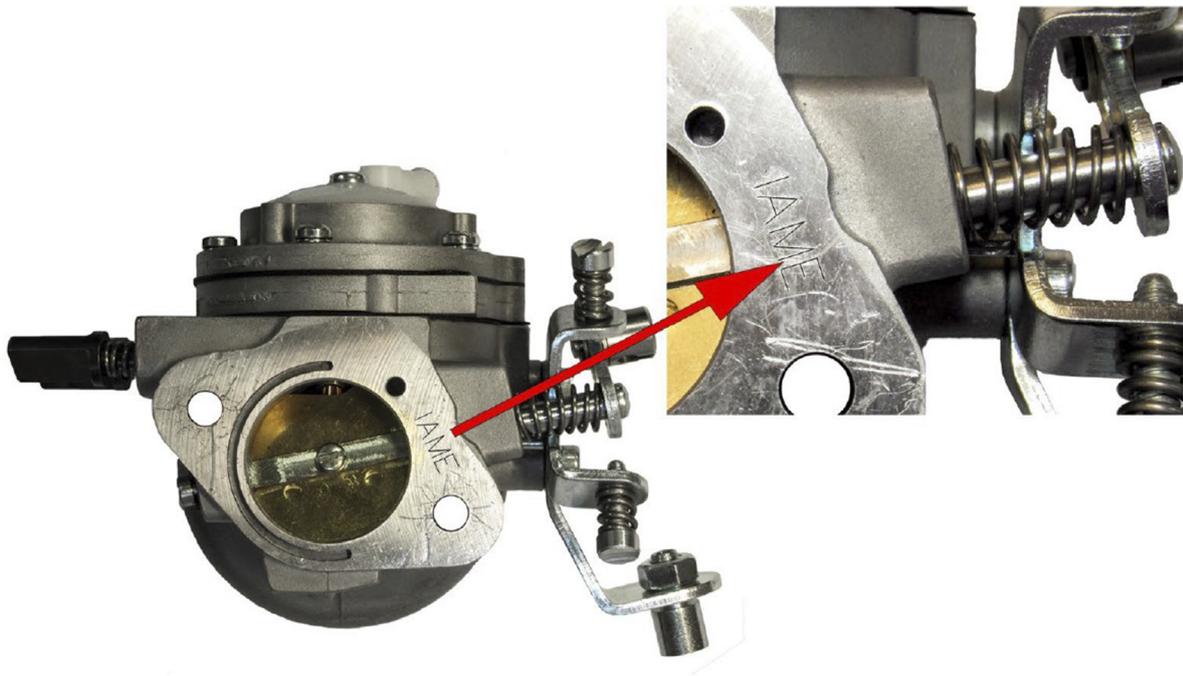
PHOTO OF INLET SIDE

Manufacturer	TILLOTSON LTD.
Make	TILLOTSON
Model	HW-33A

SECTION VIEW

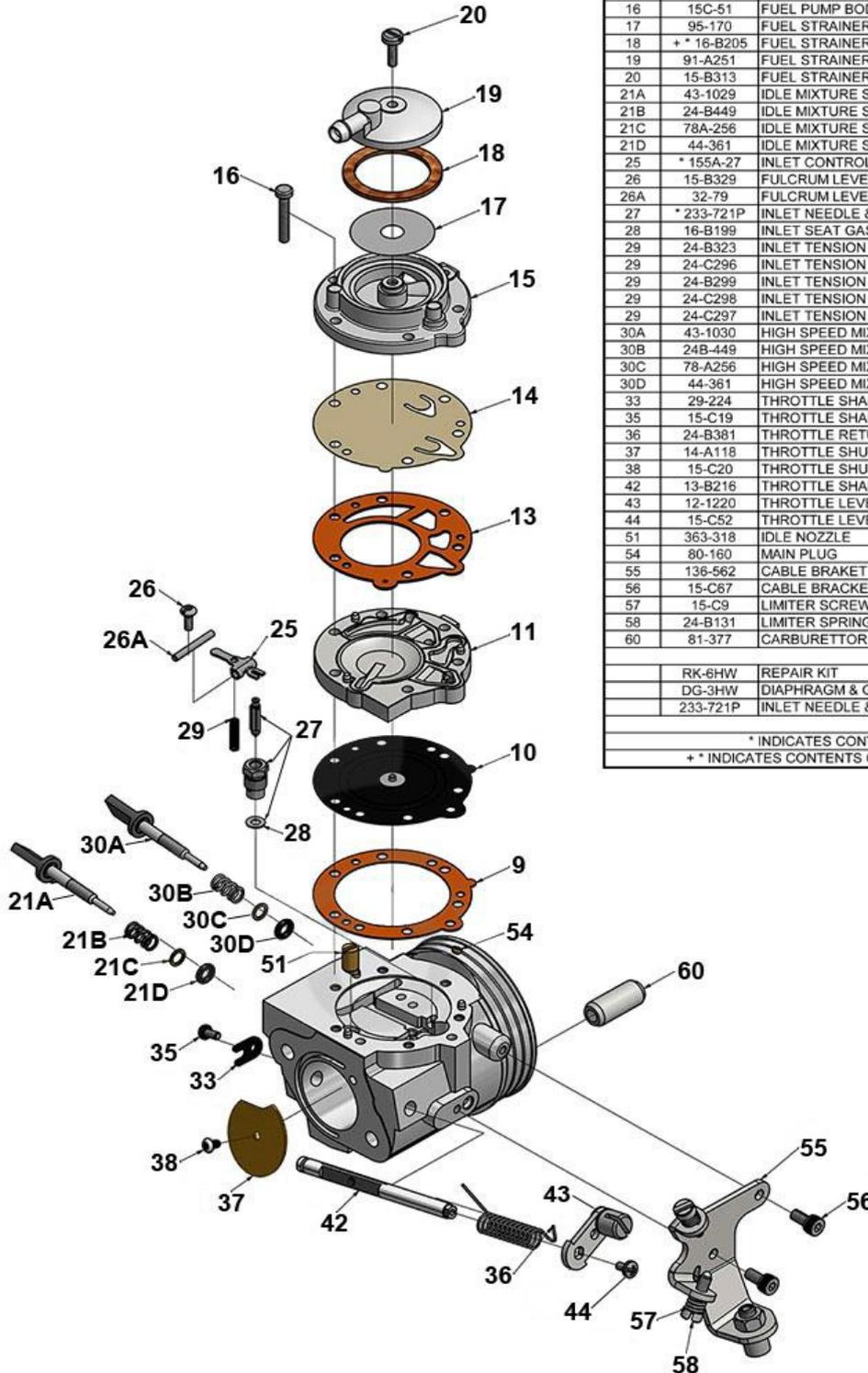


MARKING



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	78-A256	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			



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

PARTS OF CARBURETTOR

REF.8 - P. N°16-B406
DIAPHRAGM GASKET



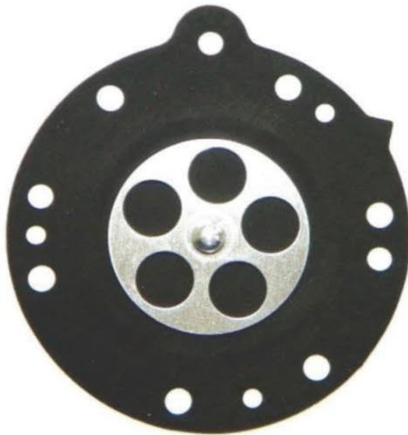
Thickness = 0.5 ± 0.1 mm

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



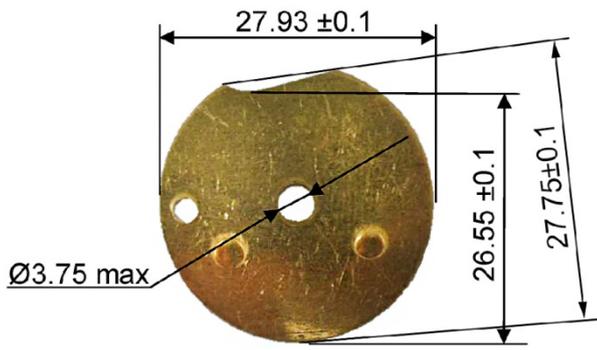
Thickness = 6.75 ± 0.15 mm

REF.12 - P. N° 141-89
PUMP COVER



Thickness = 12.5 ± 0.15 mm

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

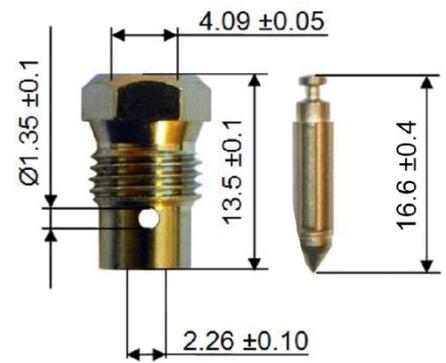


ALTERNATIVE SHAPE



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

REF.27 - P. N° 233-721P
SEAT + NEEDLE



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



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

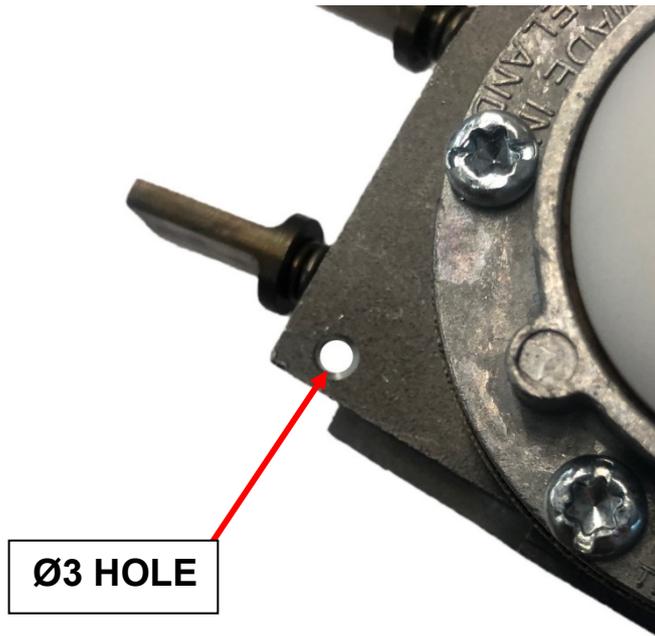


ALTERNATIVE FUEL NEEDLE

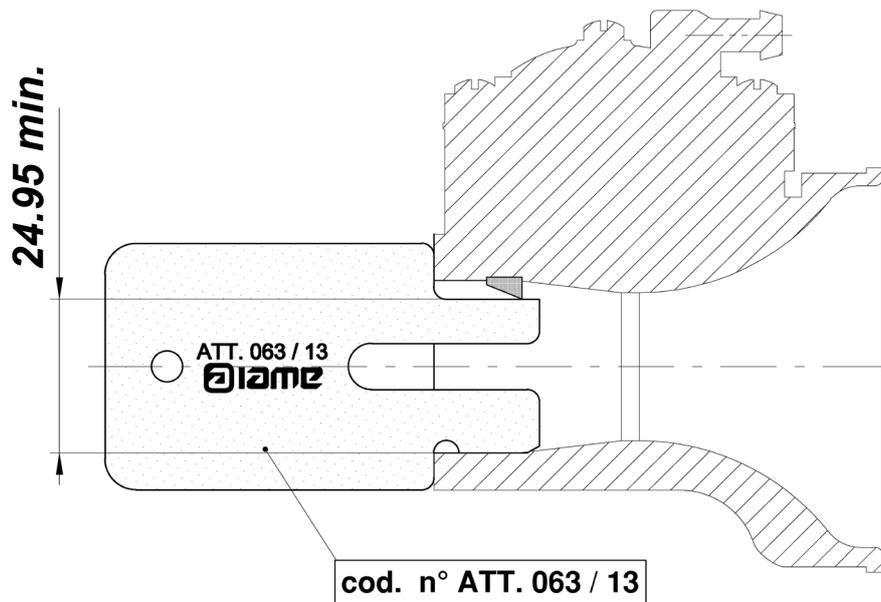


HOLE FOR CARBURETTOR SEALING

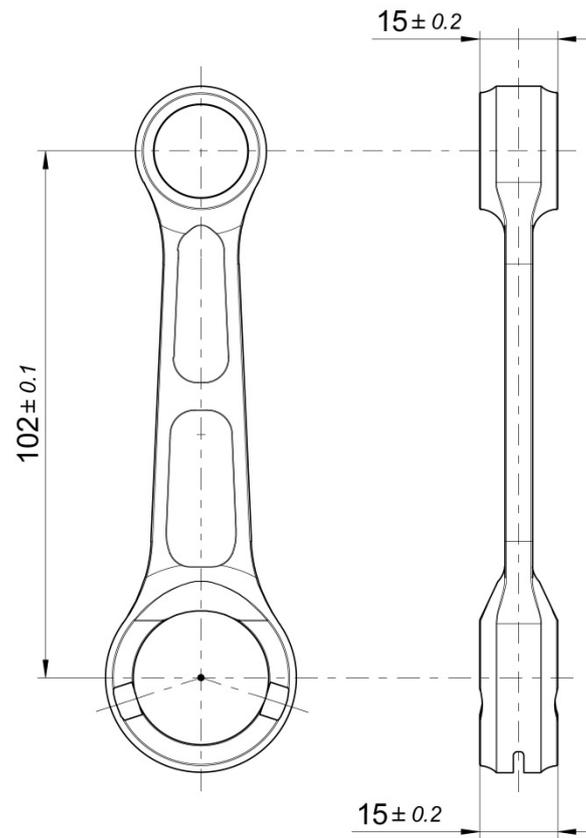
The carburettor can have this hole for sealing



ATOMIZER - HEIGHT LIMITS AND CHECKING TOOL



ALTERNATIVE CONROD



**BOTH TYPES OF CONROD CAN BE USED WITH BOTH TYPES OF WASHERS
(IN COUPLE)**

PHOTO OF THE CONROD BOTH SIDE – ALTERNATIVE

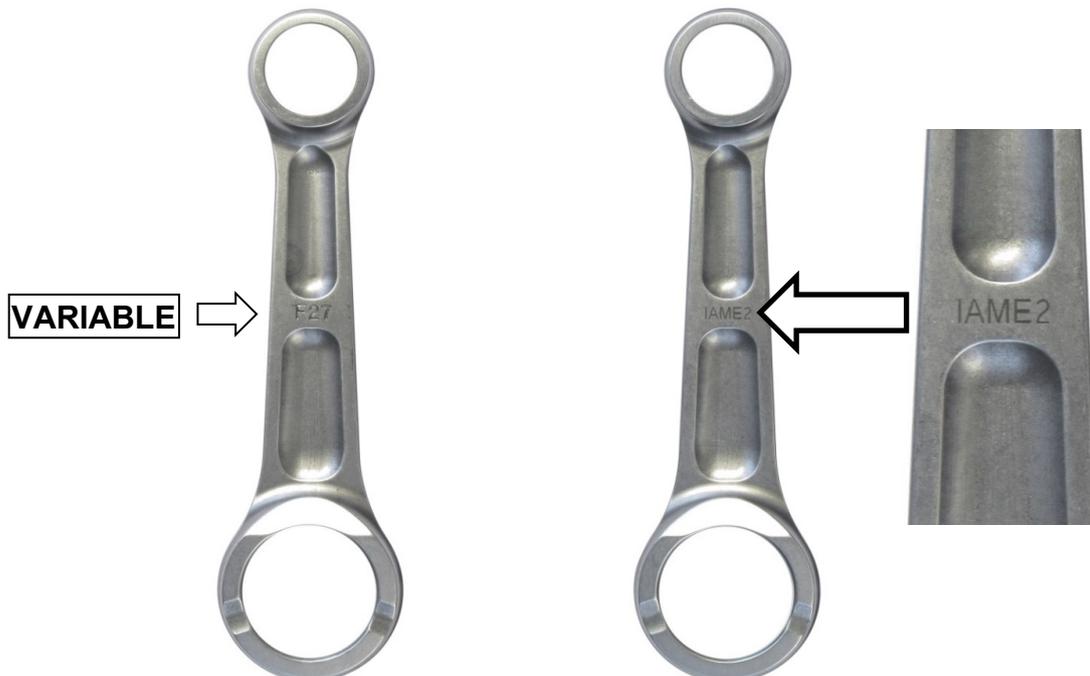


PHOTO IDENTIFICATION OF SMALL END CONROD BEARING – TYPES ALTERNATIVE

TYPE 1



TYPE 2



PHOTO IDENTIFICATION OF SILVER CONROD WASHER – TYPES ALTERNATIVE

TYPE 1



TYPE 2

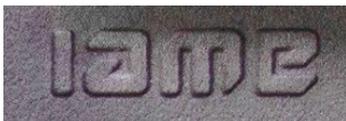


PARTICULARS WITH ALTERNATIVE NEW LOGO "IAME"

CYLINDER HEAD



NEW LOGO



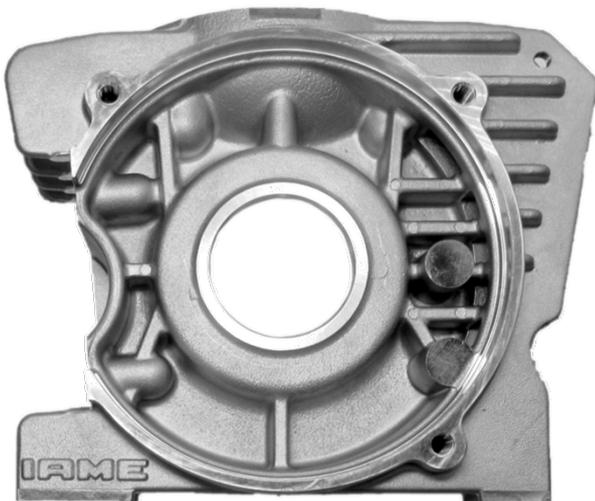
CYLINDER



NEW LOGO



SEMICARTER TRANSMISSION SIDE



NEW LOGO



SEMICARTER IGNITION SIDE



NEW LOGO



PARTICULARS WITH ALTERNATIVE NEW LOGO "IAME"

STARTER SUPPORT



NEW LOGO



CLUTCH COVER



NEW LOGO



REED GROUP



NEW LOGO



CARBURETTOR INLET CONVEYOR



NEW LOGO



PARTICULARS WITH ALTERNATIVE NEW LOGO "IAME"

EXHAUST



NEW LOGO



NEW LOGO



INLET SILENCER



NEW LOGO



PARTICULARS WITH ALTERNATIVE NEW LOGO "IAME"

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

ⓐ i a m e

or

ⓐ