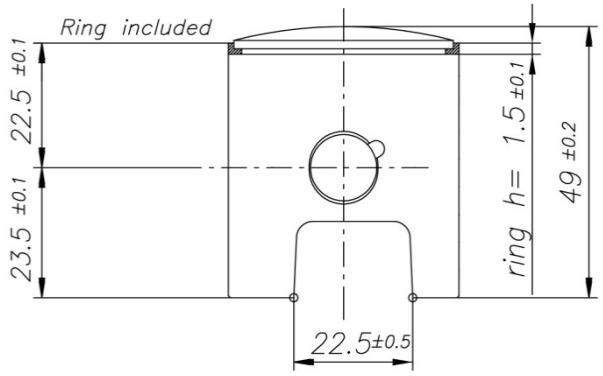
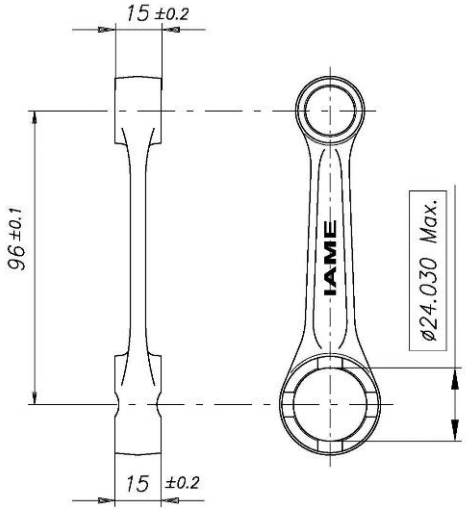
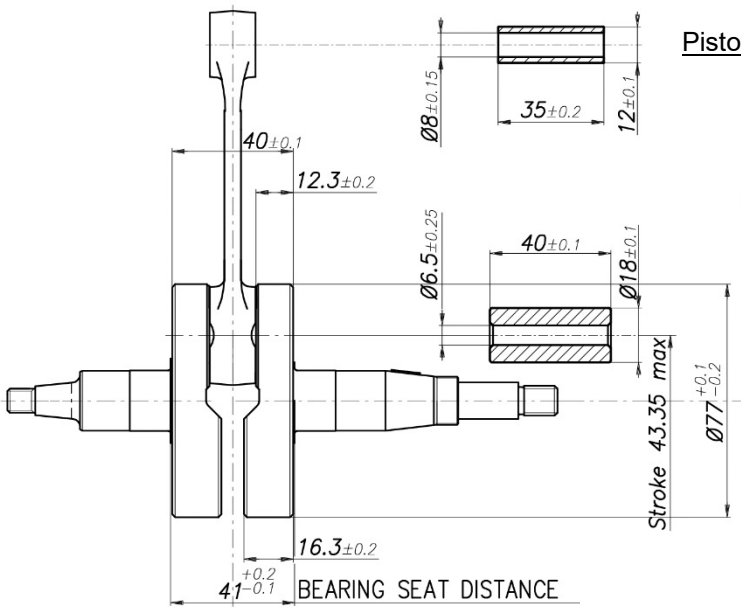
M1 - 60cc PULL START USA

FEATURES	
Cylinder volume	60.00 cm³ max
Bore	41.80 mm
Max. theoretical bore	41.97 mm
Stroke	43.35 mm max
Cooling system	Air
Inlet system	Piston Valve
Number of carbs	1

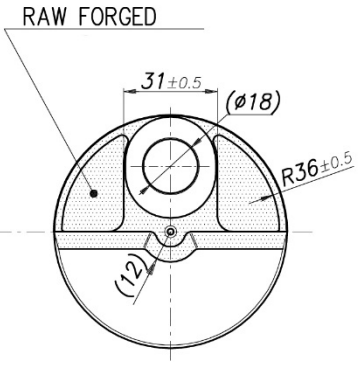
Carburettor Tillotson	HS-325A	Cylinder/crankcase transfers n°	2
Number of piston rings	1	Inlet/exhaust ports	1 / 2
Big end conrod ball-bearing diameter	18x24x15	Combustion chamber shape	Spherical
Crankshaft ball-bearing diameter	20x47x14	Selettra ignition	Analogic Cod. A-61953-C
Small end conrod ball-bearing diameter	12x16x16	Distance between Conrod centres	96 mm

DESCRIPTION OF THE MATERIAL		PISTON
Conrod material	Steel	 Min Weight (ring incl.) 60 g
Crankshaft material	Steel	
Head material	Aluminium	
Cylinder material	Aluminium	
Liner material	Cast Iron	DISTANCE BETWEEN CONROD CENTERS
Crankcase material	Aluminium	 Min. Weight 97 g
Piston material	Aluminium	
Piston rings material	Cast Iron	
Exhaust muffler material	Sheet-steel	
Ball-bearings	6204 type	

CRANKSHAFT

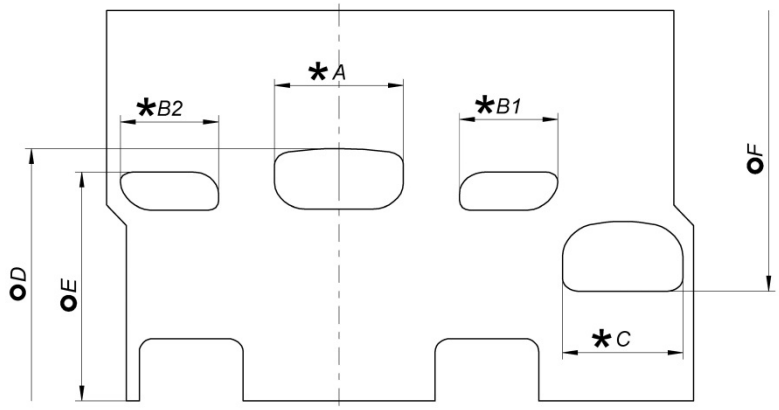


Piston pin min. weight 15.5g



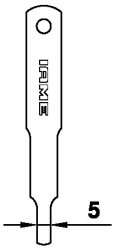
Complete Crankshaft min. weight 1280 g

CYLINDER DEVELOPMENT



A	27.5 ±0.2 mm
B1 = B2	21.7 ±0.4 mm
C	26 ±0.2 mm
D	151.5° max.
E	114.5° ±1.5°
F	141.5° max.

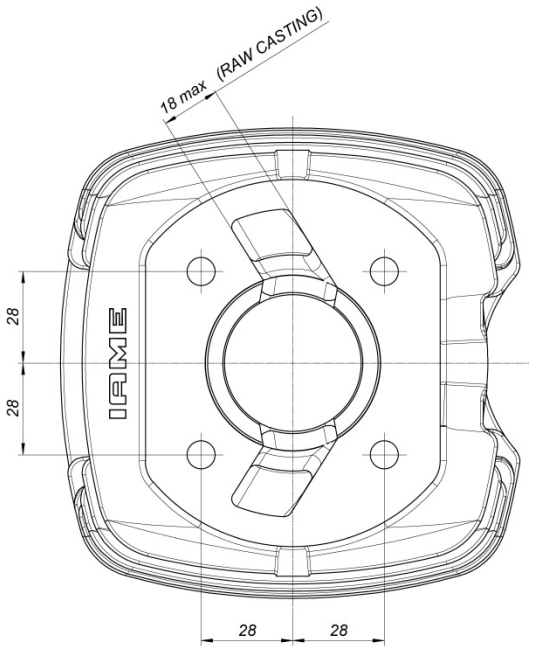
TOOL IAME Cod. 10194



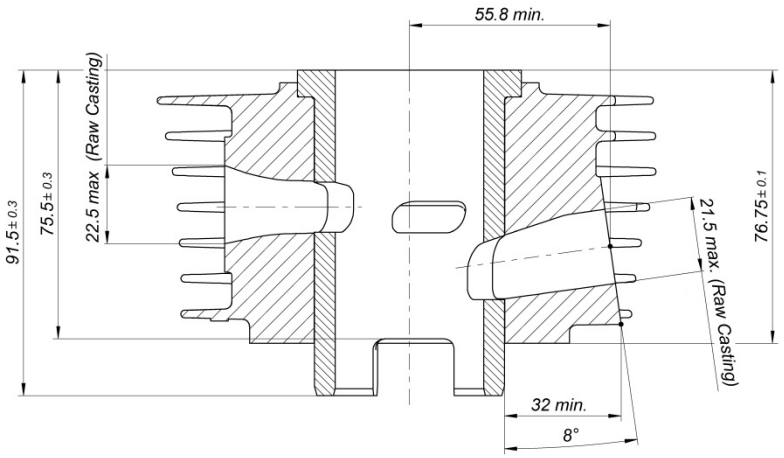
* CHORDAL READING

O ANGULAR READING BY INSERT A 0.2x5 mm GAUGE
USING IAME TOOL - Cod. 10194

CYLINDER BASE VIEW

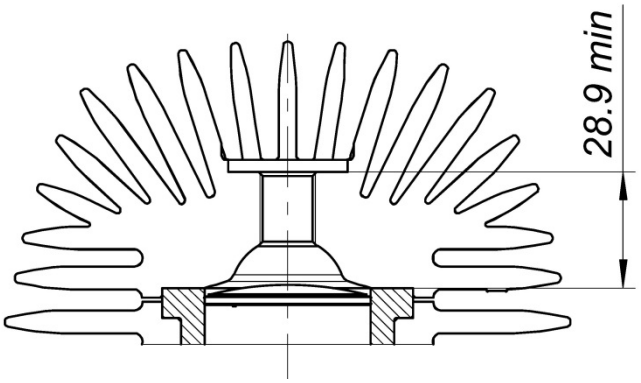


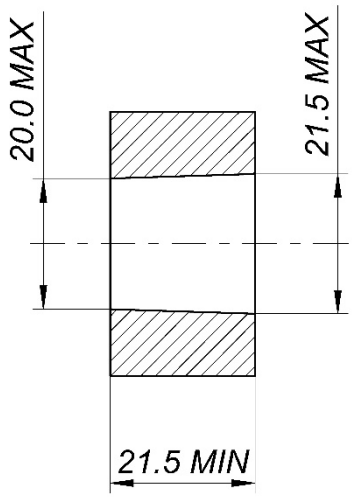
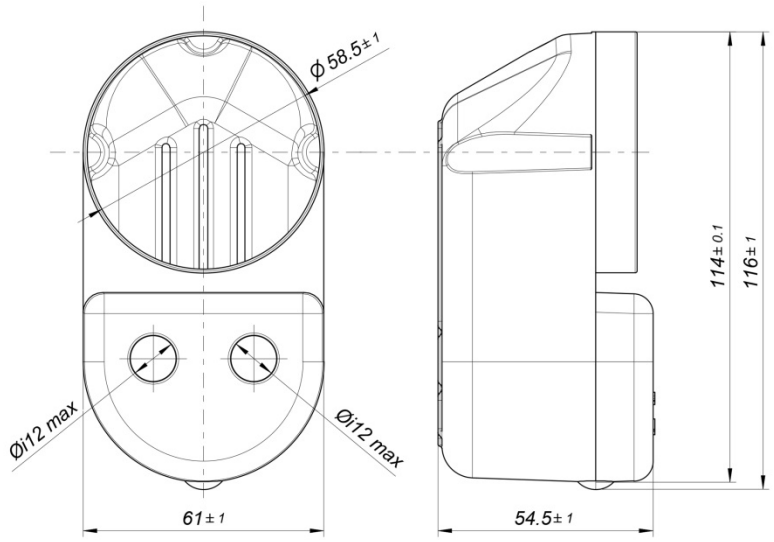
CYLINDER CROSS SECTION VIEW



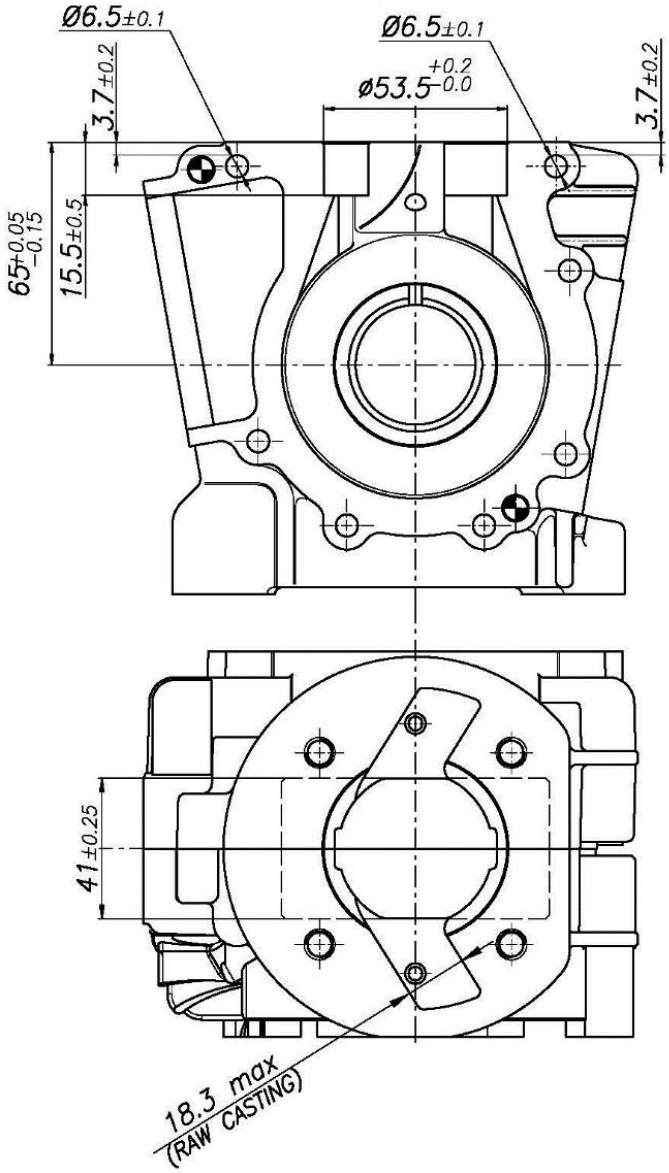
COMBUSTION CHAMBER VIEW

SQUISH MIN.= 0.078" (2.0 mm)
(measured with 0.125" (1/8") / Ø3.175mm solder)

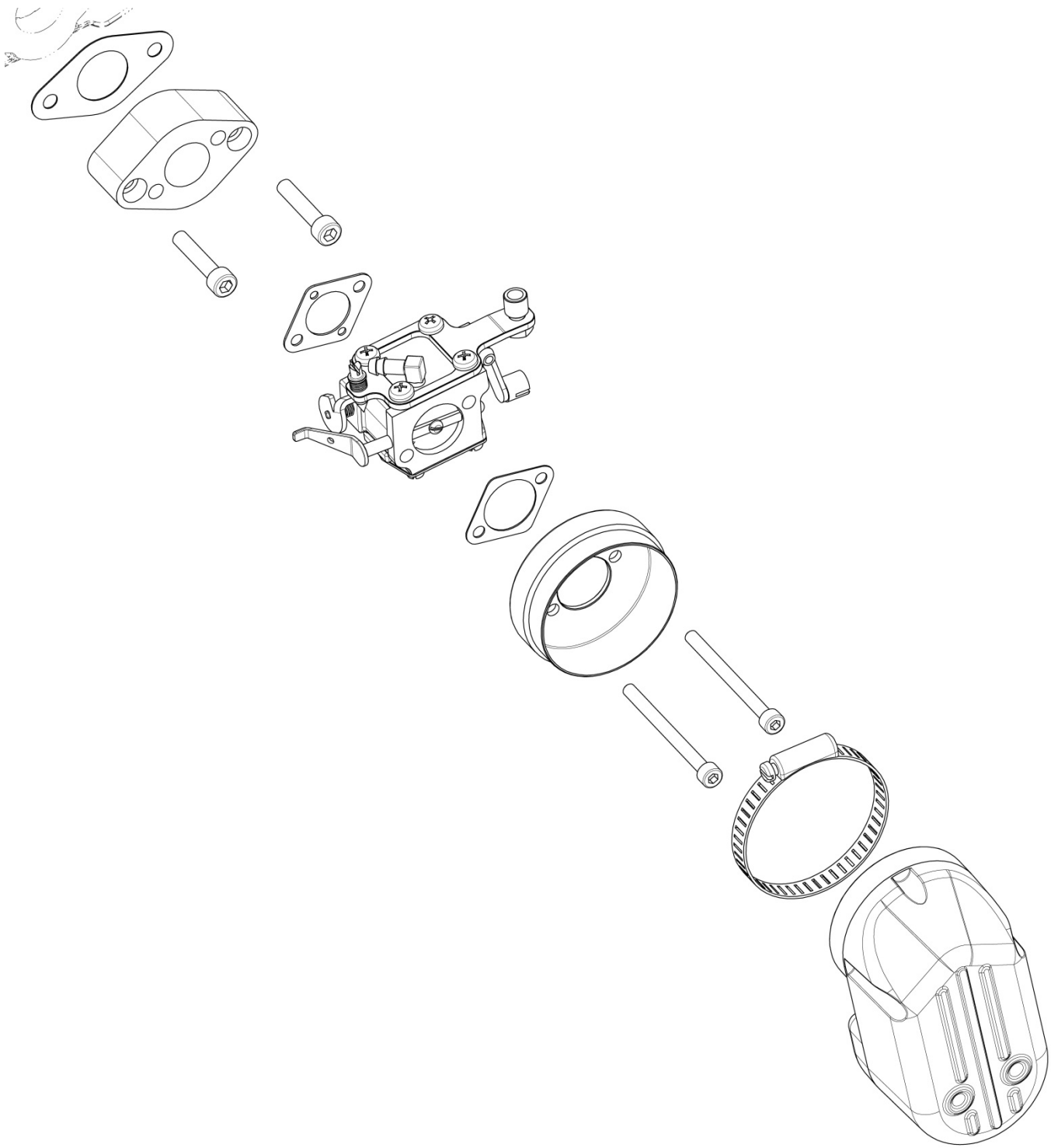


THERMAL SPACER	INLET SILENCER
 Q.ty: 1	

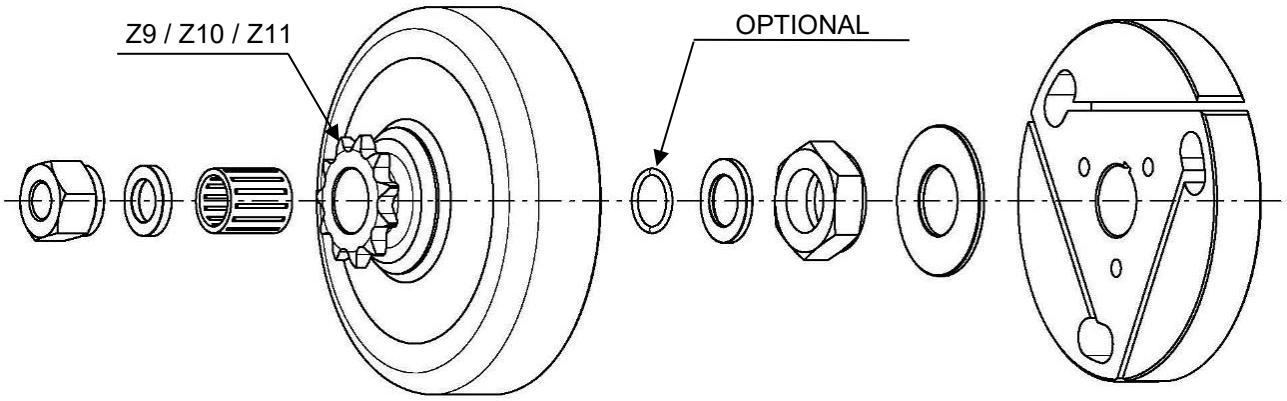
CRANKCASE INSIDE VIEW

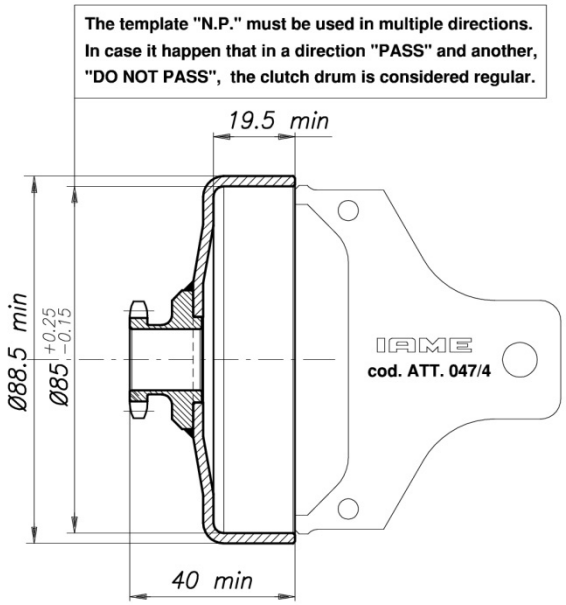


INLET SYSTEM EXPLODED VIEW

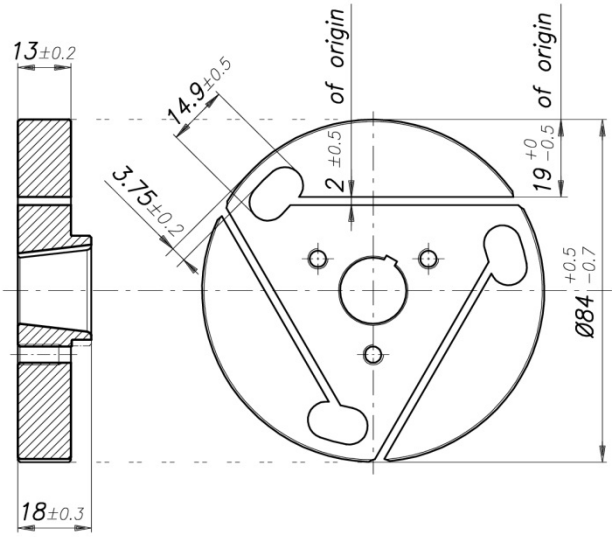


DESCRIPTION OF THE CLUTCH



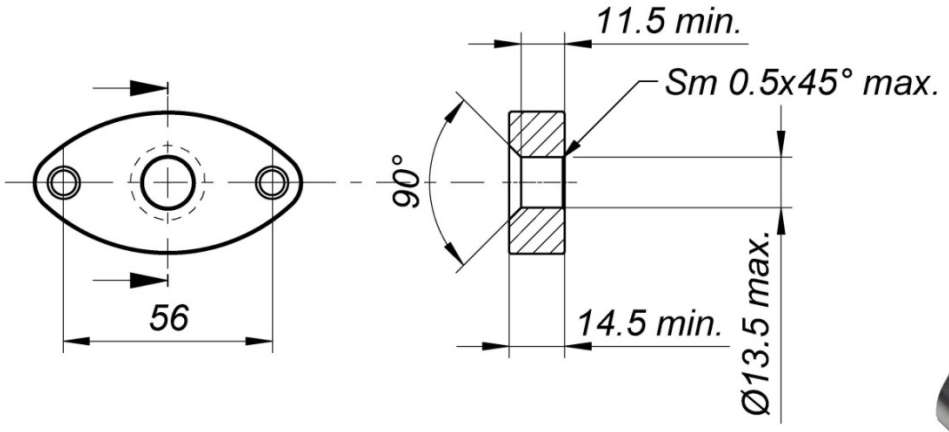


Min. Weight
210 g



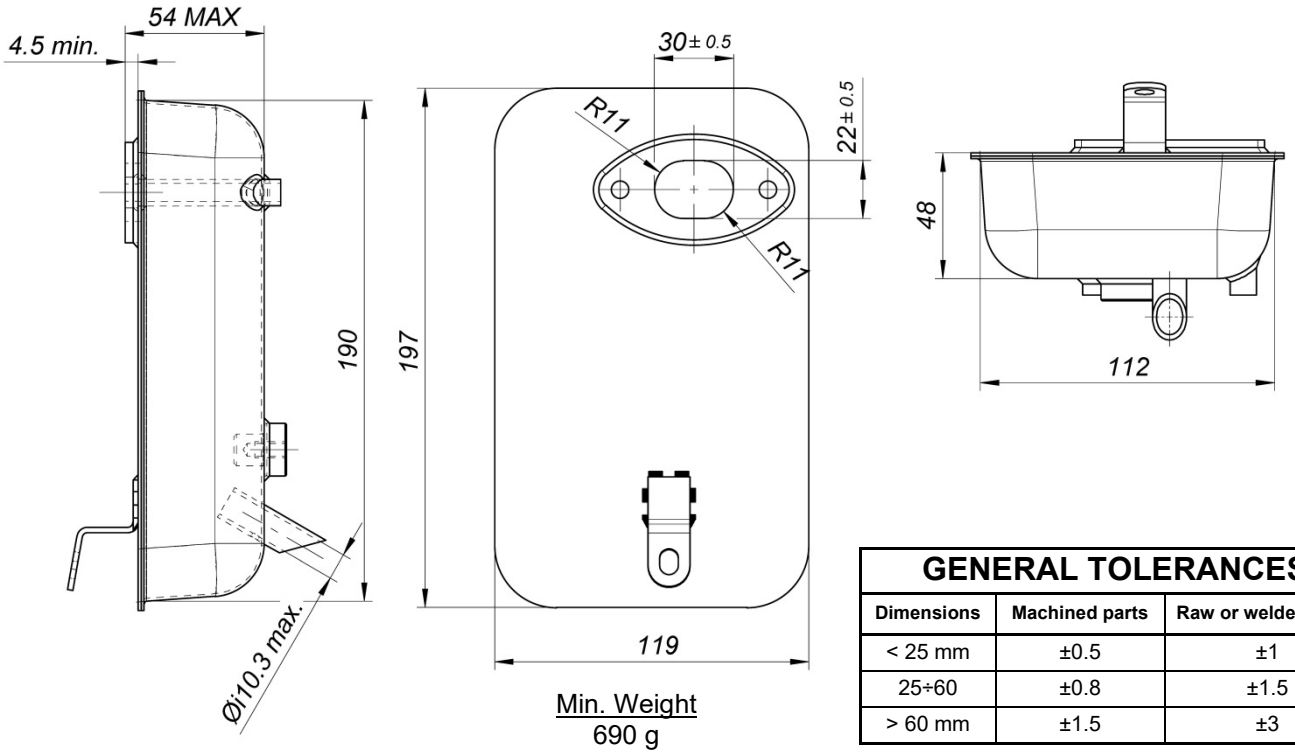
Min. Weight
445 g

EXHAUST MANIFOLD



Identification marking
(on both sides)

EXHAUST MUFFLER VIEW AND DIMENSIONS

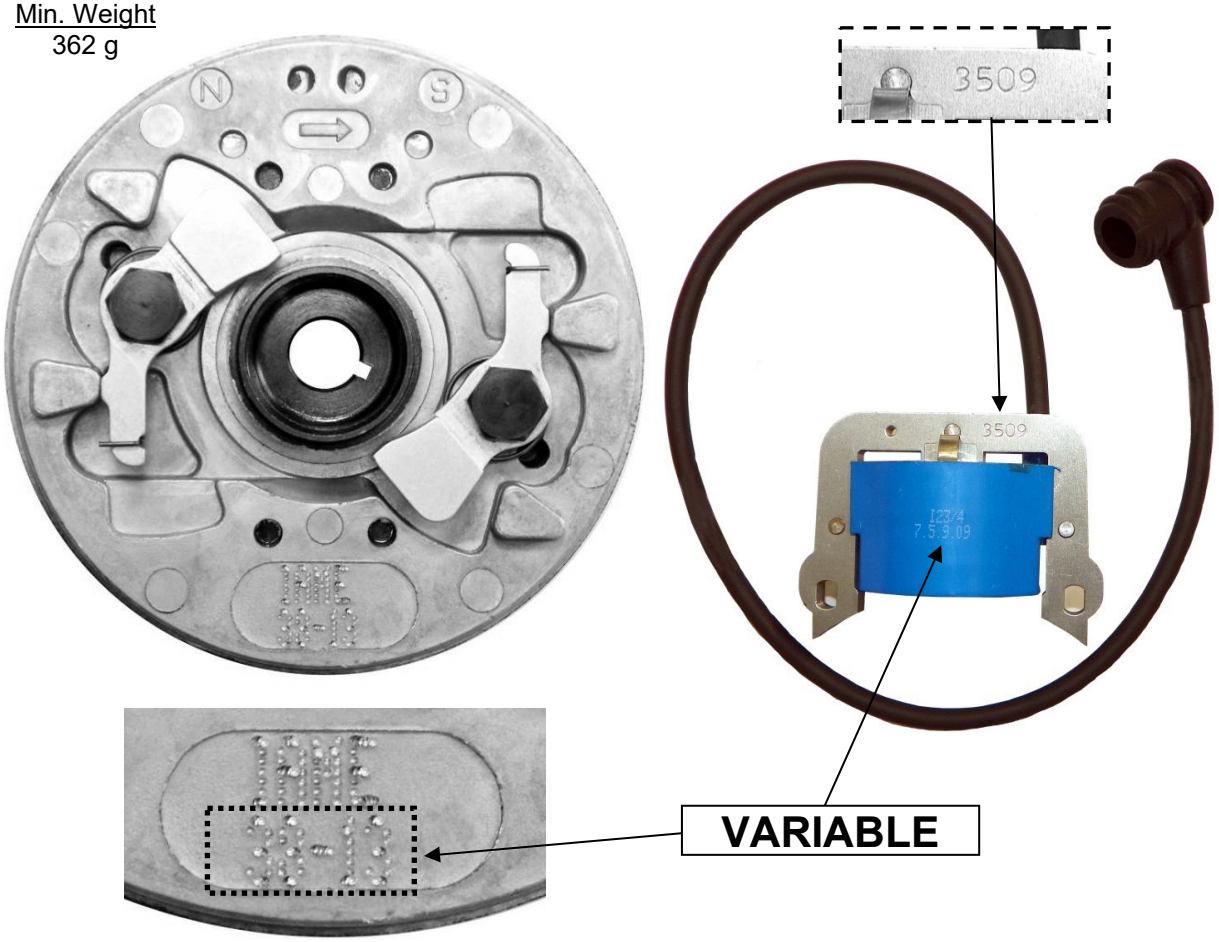


Min. Weight
690 g

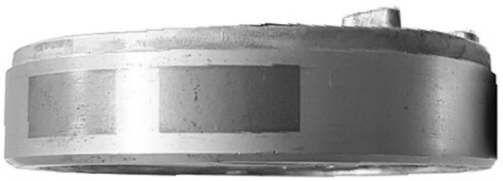
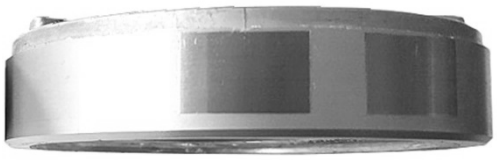
GENERAL TOLERANCES		
Dimensions	**Machined parts**	**Raw or welded parts**
< 25 mm	±0.5	±1
25÷60	±0.8	±1.5
> 60 mm	±1.5	±3

IGNITION PHOTO IDENTIFICATION MARKING

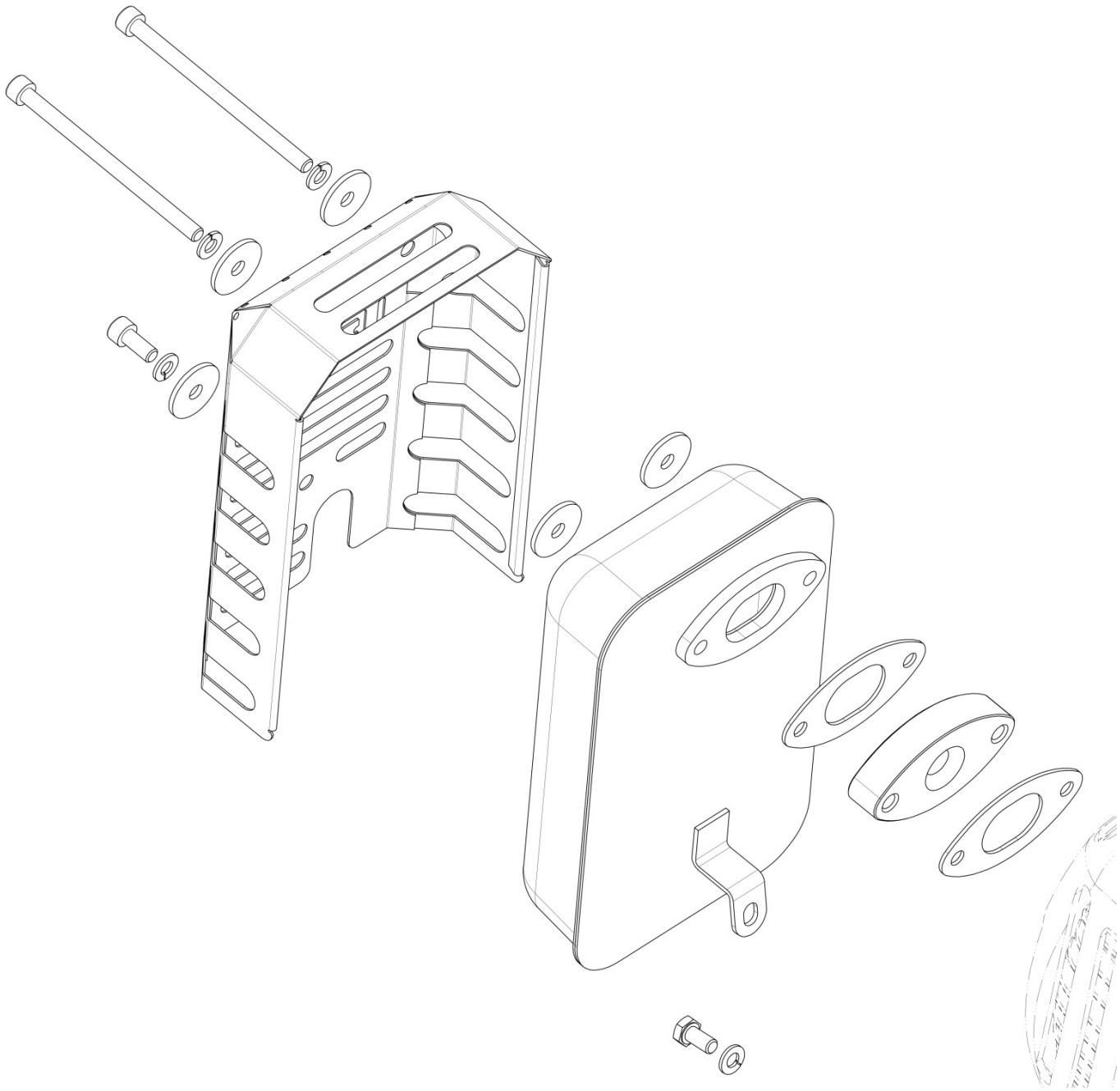
Min. Weight
362 g



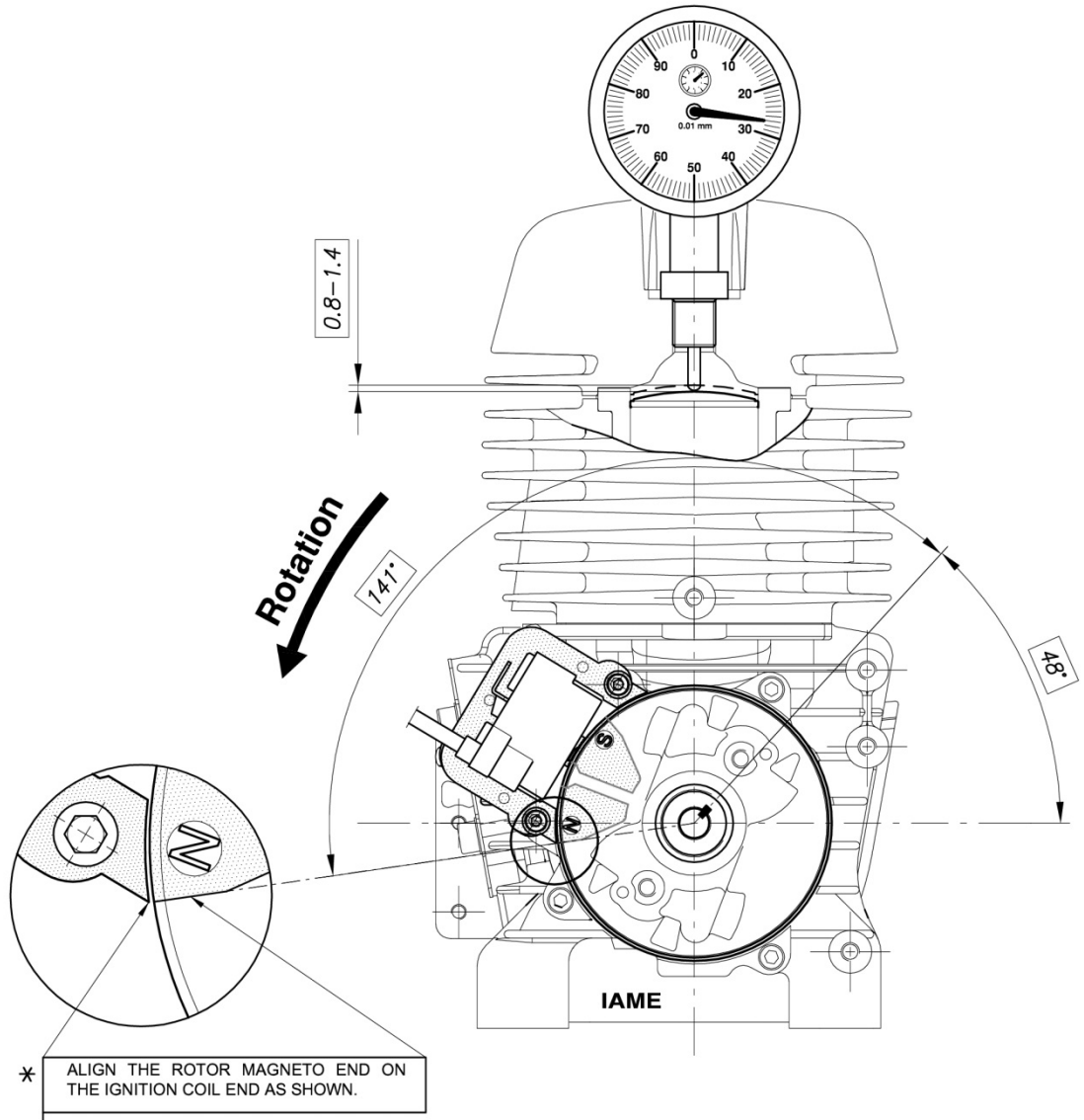
ALTERNATIVE IGNITION ROTOR

ROTOR TYPE 1	ROTOR TYPE 2
	
	
	

EXHAUST SYSTEM EXPLODED VIEW

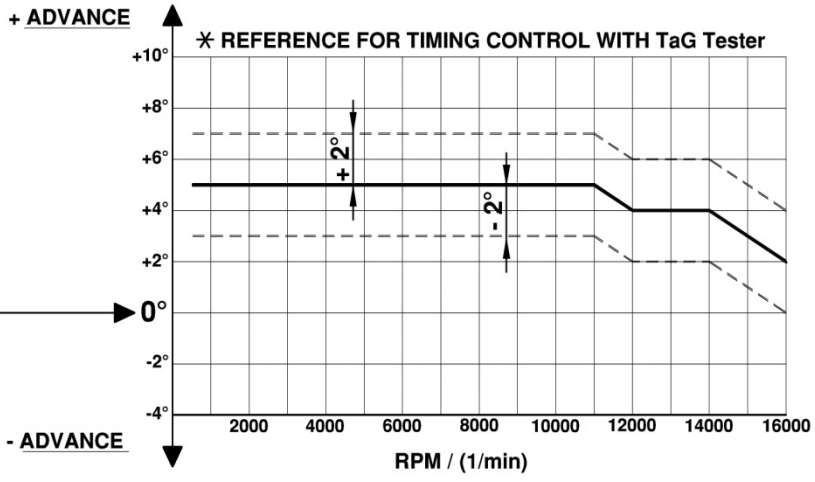


SCHEME FOR ADVANCE CONTROL

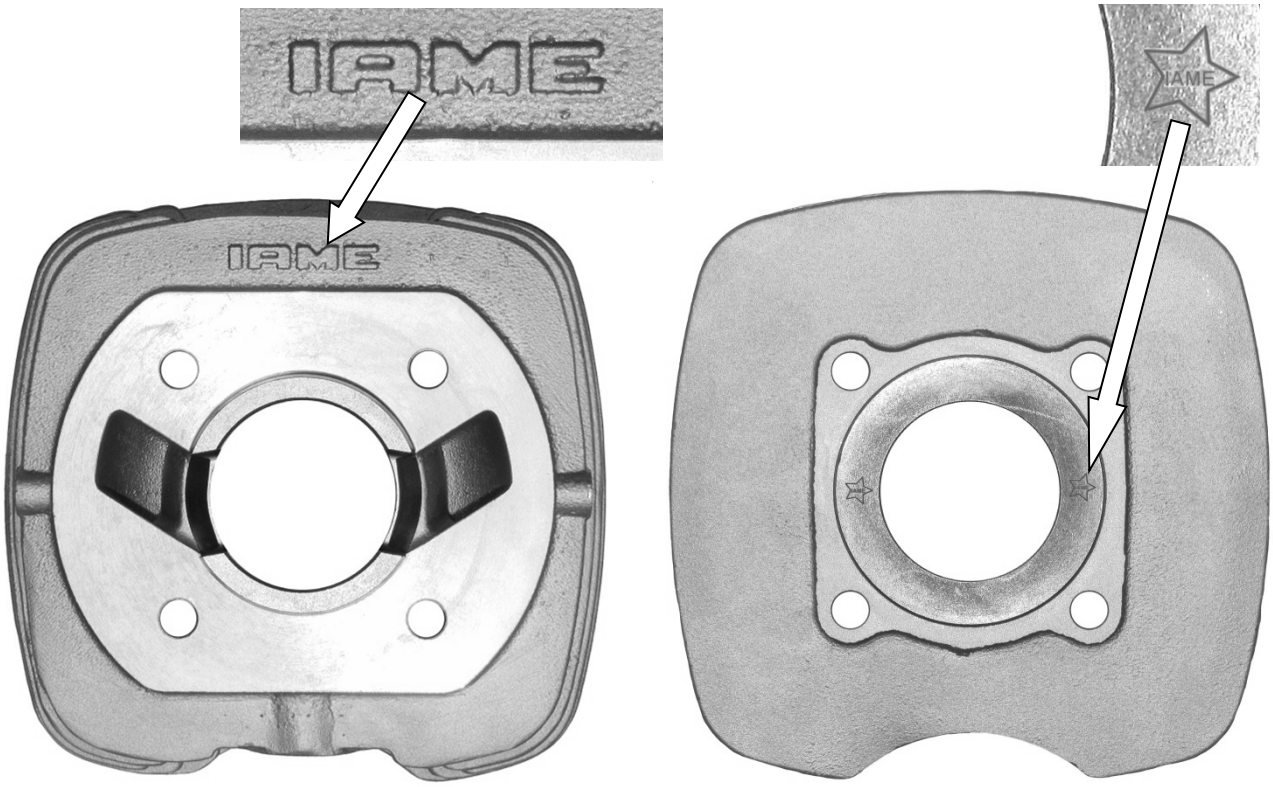


* ALIGN THE ROTOR MAGNETO END ON THE IGNITION COIL END AS SHOWN.

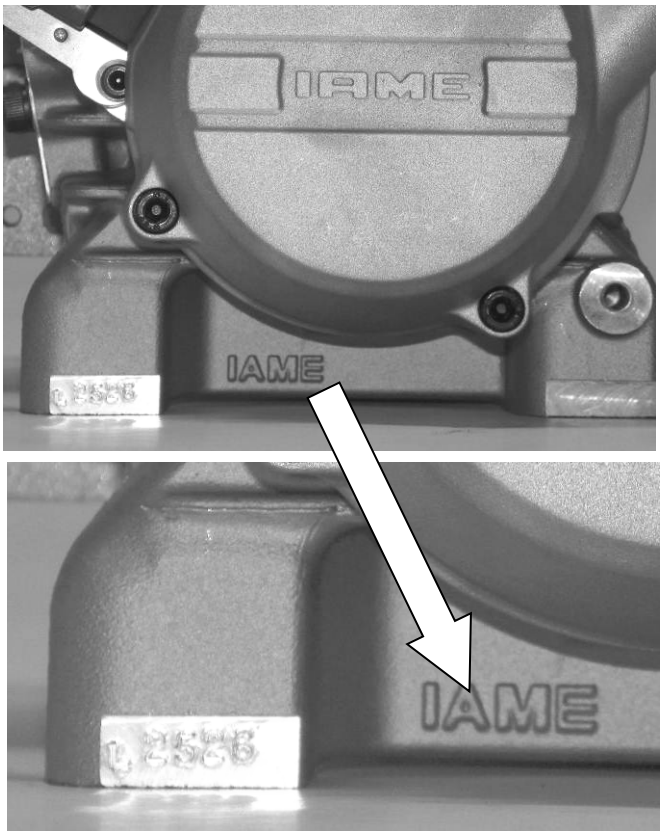
ADVANCE CURVE GRAPHS



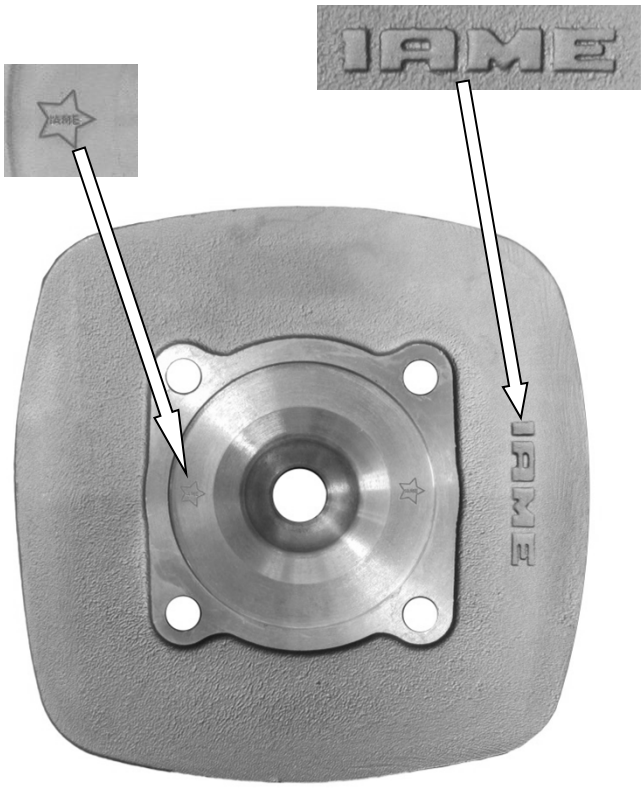
CYLINDER IDENTIFICATION MARKING

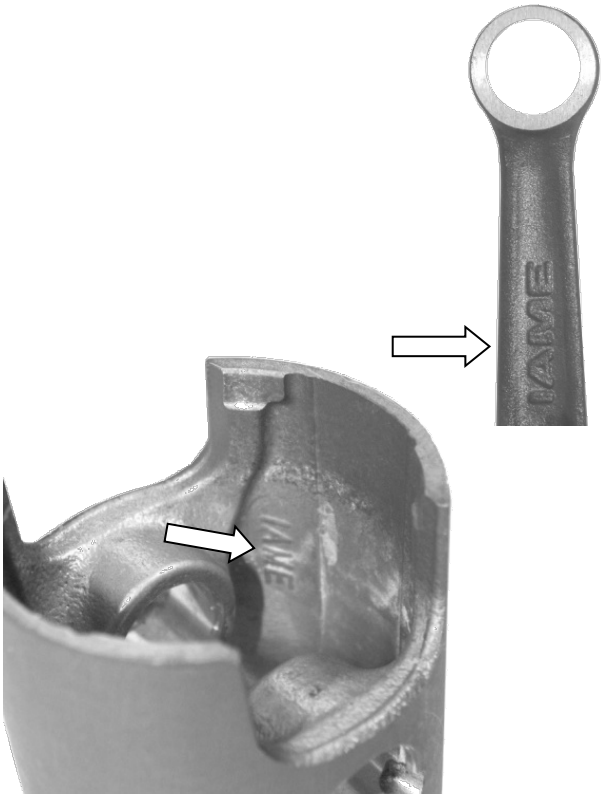
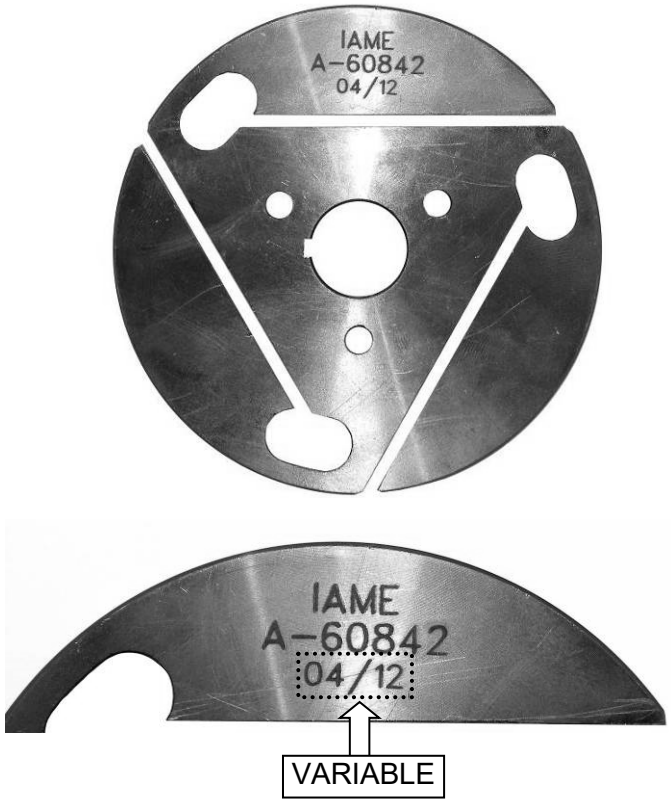
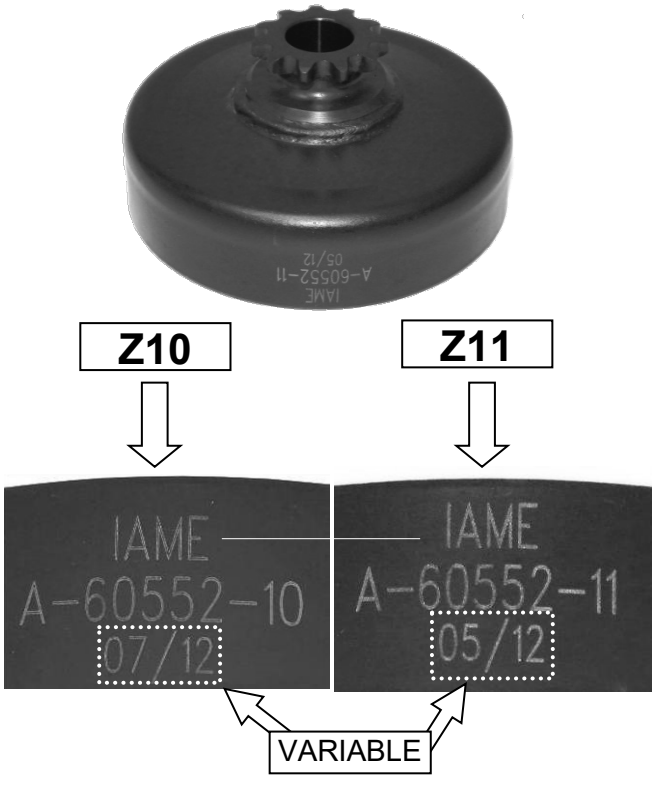


CRANKCASE IDENTIFICATION MARKING

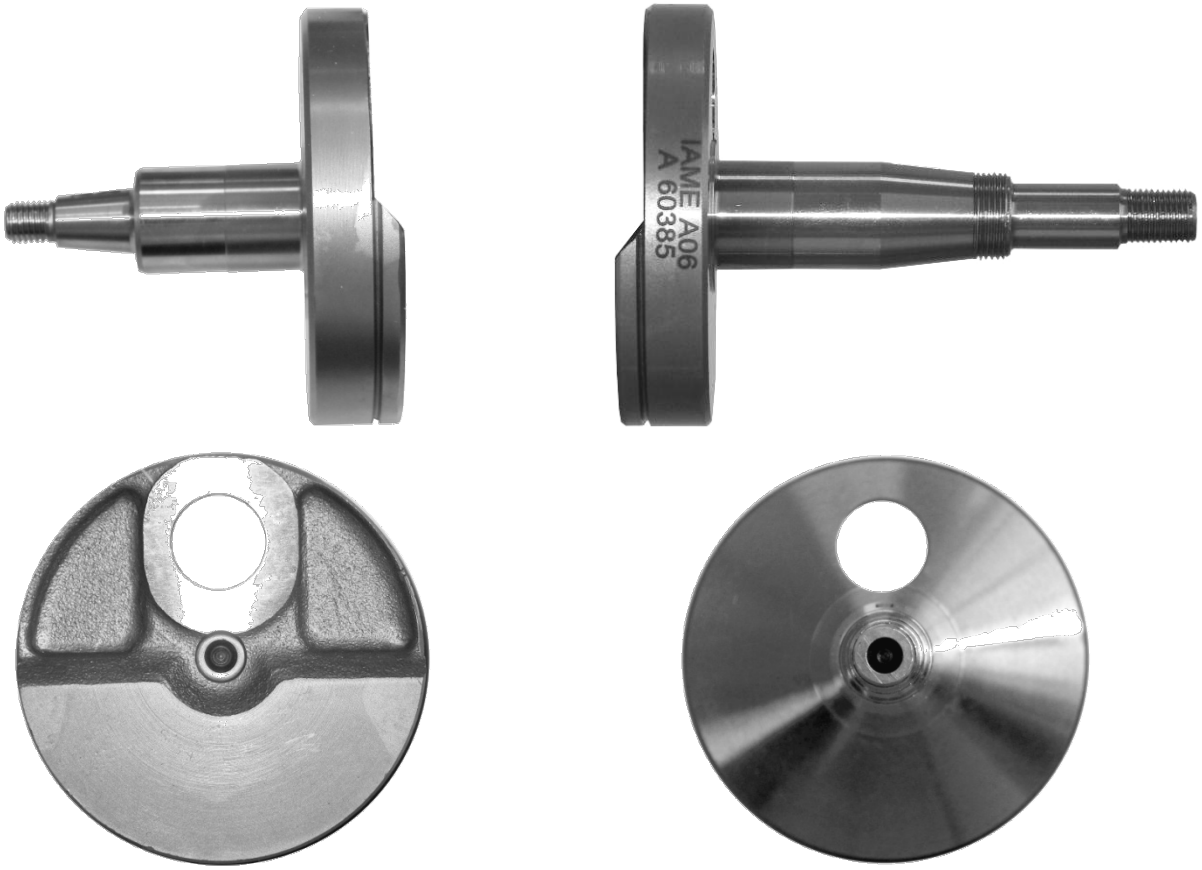


CYLINDER HEAD IDENTIFICATION MARKING



EXHAUST IDENTIFICATION MARKING	CONROD / PISTON IDENTIFICATION MARKINGS
	
CLUTCH HUB IDENTIFICATION MARKING	**CLUTCH DRUM IDENTIFICATION MARKING**
	

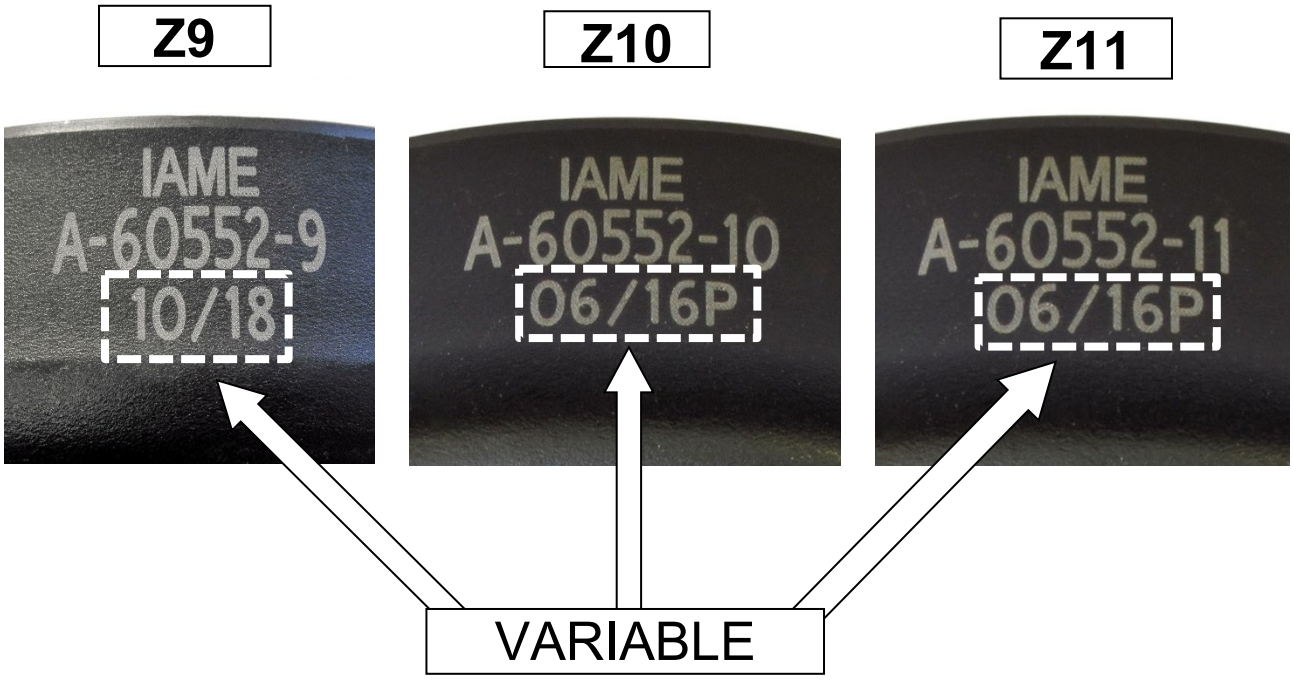
CRANKSHAFT PHOTOS



CRANKSHAFT IDENTIFICATION MARKINGS

PARTICULAR OF COMPLETE CRANKSHAFT

ALTERNATIVE CLUTCH DRUM

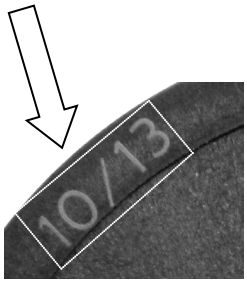


ALTERNATIVE CLUTCH COVER

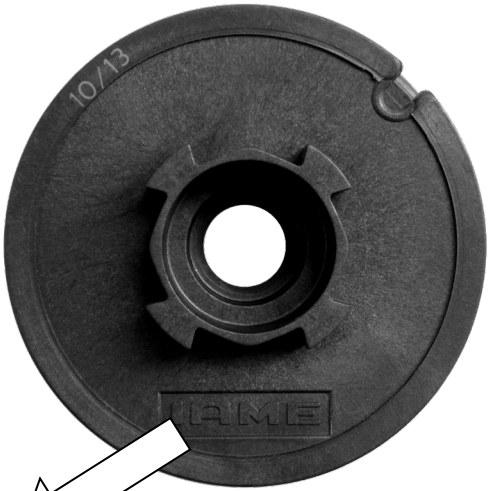
ENGINE STICKER “USA”

PHOTO IDENTIFICATION OF PULLEY – TYPES ALTERNATIVE

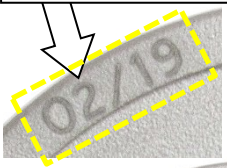
VARIABLE



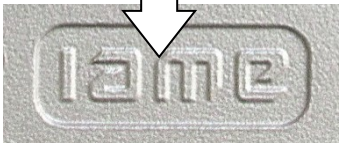
TYPE 1
Plastic

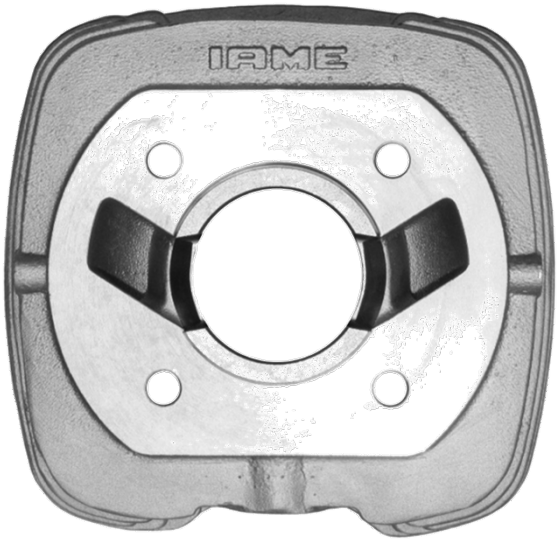


VARIABLE



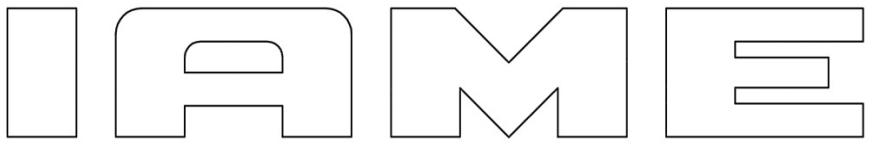
TYPE 2
Aluminium



COMPONENTS WITH ALTERNATIVE NEW LOGO “IAME”	
CYLINDER HEAD	CYLINDER
 **NEW LOGO** 	 **NEW LOGO** 
SEMICARTER TRANSMISSION SIDE	SEMICARTER IGNITION SIDE
 **NEW LOGO** 	 **NEW LOGO** 

COMPONENTS WITH ALTERNATIVE NEW LOGO “IAME”	
RECOIL COVER	CLUTCH COVER
 **NEW LOGO**	 **NEW LOGO**
EXHAUST	
 **NEW LOGO**	

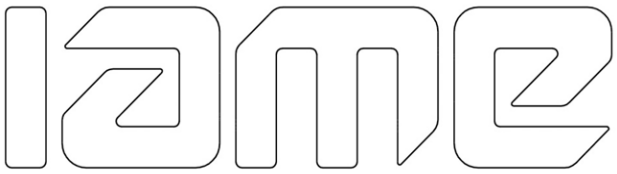
THE OTHERS COMPONENTS OF ENGINE THAT ARE MARKED (LASER OR PUNCHING) UNTIL TODAY WITH LOGO OR WRITTEN “IAME”



or

IAME

NOW COULD BE MARKED WITH NEW LOGO “IAME”



or

or