

IAME BAMBINO CLASS RULES

v7 1/5/2025

IAME Bambino M1 Kid Kart:

Age: 5 – 8 years old

* Driver will not be able to compete until they reach 5 years old; ie. if the driver turns 5 June 10th they can race on or after June 10th.

Engine: IAME Bambino

Fuel: VP MS98 & Elf HTX909 @ 7 oz/gallon Tires: Slicks MG "SH2" Red 4.60 Fronts &

Rears

Rains MG "WT, SW, SW2" 4.20 Fronts &

Rears

Weight: 150 lbs.

* SFI 20.1 Chest Protectors are MANDATORY for all Kid Kart Drivers.

Frame – Kid Kart or Cadet chassis permitted. Seat and pedals should be located where the driver can reach and control the kart.

Kid Kart Chassis:

Seat and Steering Height – Minimum seat height is 12", maximum steering wheel height is 20".

Wheelbase – 29" minimum 35.5" maximum.

Width – Front 40" maximum outside of tire/rim, no minimum. Rear 39" minimum, 42" maximum outside of tire/rim. Cadet Chassis: per 2024 USPKS rulebook, 950mm maximum wheelbase.

Bodywork – CIK Side pods and nose cones are mandatory.

Rear Bumper – CIK plastic bumper required Chain Guard – Chain must be completely covered when looking from above or behind kart. A full chain guard is recommended but not mandatory.

Chain and Gearing - #219 chain, 10 tooth driver with 89 tooth gear.

Tire Circumference – Maximum rear tire circumference is 33 3/8".

Tire Pressure – Maximum tire pressure is 30 psi after race.

Series Engine Claim Rule - AMR
Motorplex, at it's discretion, may claim
any competitor's engine if deemed
necessary to maintain competitive
balance. A new IAME Bambino engine
package will be provided to replace any
claimed engine. Competitors refusing
engine claim will lose any accumulated
championship points and will be barred
from further competition in the class.





IAME M1 Bambino Supplementary Class Tech Rules v7 01/05/2025

The intent of this class is that the engine be run as factory supplied unless otherwise noted. **Components may be compared to known stock parts to ensure compliance.** The official IAME fiche dated *01/03/2019 n'363* is considered part of the technical specs. No modification or tuning is permitted. Only engines imported (serial number registered) thru the official IAME importer may be used. Only genuine IAME replacement parts may be used.

Gear Ratio: 10-89

Max Rear Tire Diameter: 33 3/8" – Maximum pressure 30psi after race session.

Spark Plug: The following plugs are approved for competition: Autolite AR50 or AR51. Stock gasket to be used as

supplied. No CHT sensor and/or other washers permitted.

Main Bearings: Must be 6204 C4, unmodified with 8 steel balls and plastic cage.

Fuel & Oil: VP MS98 & Elf HTX909 @ 7oz/gallon

Air Intake Silencer: Dellorto DGM14498S – 2 Inlet holes @ 12mm NO-GO

Muffler: To be run as manufactured, gasket must be in place, no leakage allowed. Outlet 10.3mm max.

Exhaust Restrictor: 13.5mm NO-GO - no leakage allowed.

Repairs: Damaged threads may be repaired with Helicoils or other inserts. Original location must be maintained.

Base Gaskets: Maximum of 2 (EBP-85045, EBP-85046, EBP-85046-A, or EBP85046-B allowed).

Head Gaskets: Maximum of 4 allowed (A-61047 or A-61048). Any combination allowed.

Clutch: As factory supplied without modifications. Excessive oil/grease is grounds for disqualification. Clutch test 5000 rpm maximum.

Squish Minimum: 2mm (.078") checked along the centerline of the piston pin.

Carburetor: HS-325A only.

- To be run as delivered
- Venturi 10.3mm max.
- Inlet spring and pop off value is non-tech.
- Choke assembly to remain in place.
- Low speed welch plug must not show signs of tampering or removal / replacement.
- *Bypassing fuel or air to the motor in any way other than as manufactured is illegal.

Timing:

- Per advance control on page 10 of the Factory Fiche Document.
- Insert dial indicator in spark plug hole, zero at top dead center.
- Align marks per photo.
- Reading must be between 0.035" 0.045".
- All ignition components must be OEM and unaltered.



M1 60cc - PULL START



Carburettor Tillotson

Number of piston rings

Crankshaft ball-bearing

diameter

diameter

diameter

Pull Start

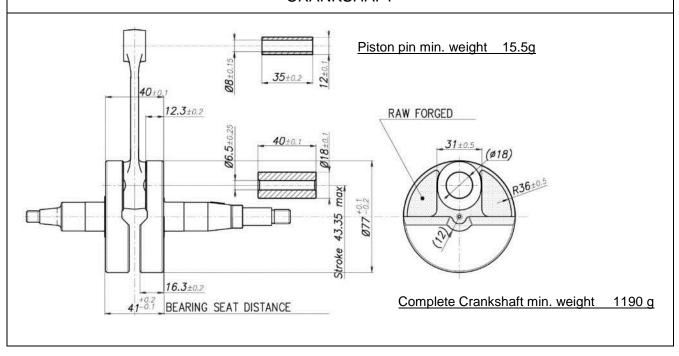
Big end conrod ball-bearing

Small end conrod ball-bearing

	FEATURES						
	Cylinder volume	60.00 cm ³ max					
Zlame	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					
HS-325A (Ø10.3 Venturi)	Cylinder/crankcase transfers n°	2/2					
1	Inlet / exhaust ports	1/2					
18x24x15	Combustion chamber shape	Spherical					
20x47x14	Selettra ignition	Analogic Cod. A-61953-C					
12x16x16	Distance between Conrod centres	96 mm					
Yes	Combustion chamber Volume	8 cm ³ min.					

DESCRIPTION OF THE MAT	PISTON			
Conrod material	Steel	Ring included		
Crankshaft material	Steel	h= 1.5 49 ±0.2		
Head material	Aluminium	23.5 ring		
Cylinder material	Aluminium	Min Weight (ring incl.) 60 g		
Liner material	Cast Iron	DISTANCE BETWEEN CONROD CENTERS		
Crankcase material	Aluminium	15±0.2		
Piston material	Aluminium			
Piston rings material	Cast Iron	96 ±0.1		
Exhaust muffler material	Sheet-steel			
Ball-bearings	6204 type	15 ±0.2 Min. Weight 97 g		

CRANKSHAFT



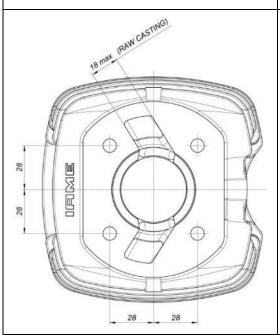
CYLINDER DEVELOPMENT * A Α 27.5 ±0.2 mm **★**B1 *****B2 21.7 ±0.4 mm B1 = B226 ±0.2 mm C 9 D 151.5° max. 114.5° ±1.5° E 141.5° max. F QO. OE TOOL IAME Cod. 10194 *C * CHORDAL READING

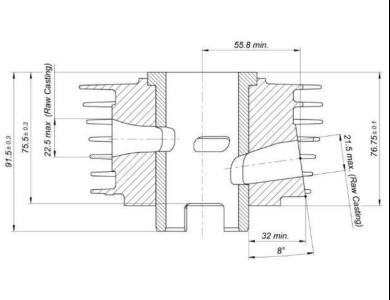
CYLINDER BASE VIEW

USING IAME TOOL - Cod. 10194

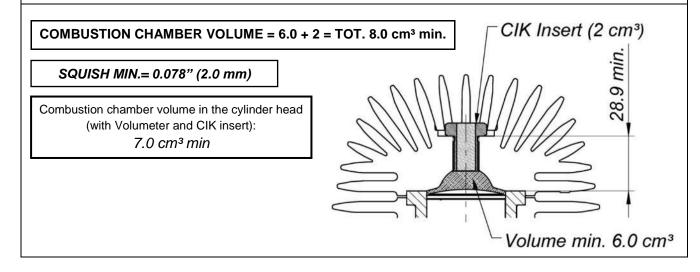
○ ANGULAR READING BY INSERT A 0.2x5 mm GAUGE

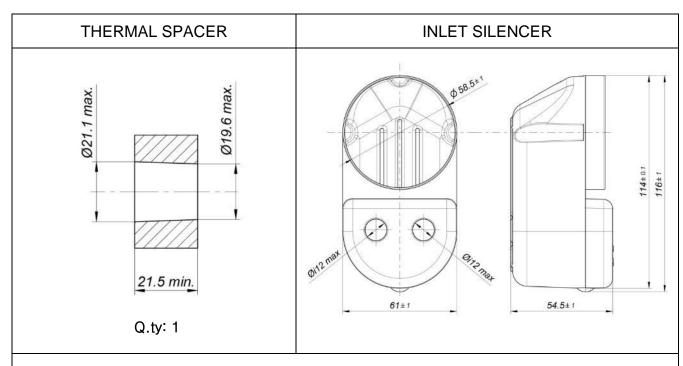
CYLINDER CROSS SECTION VIEW



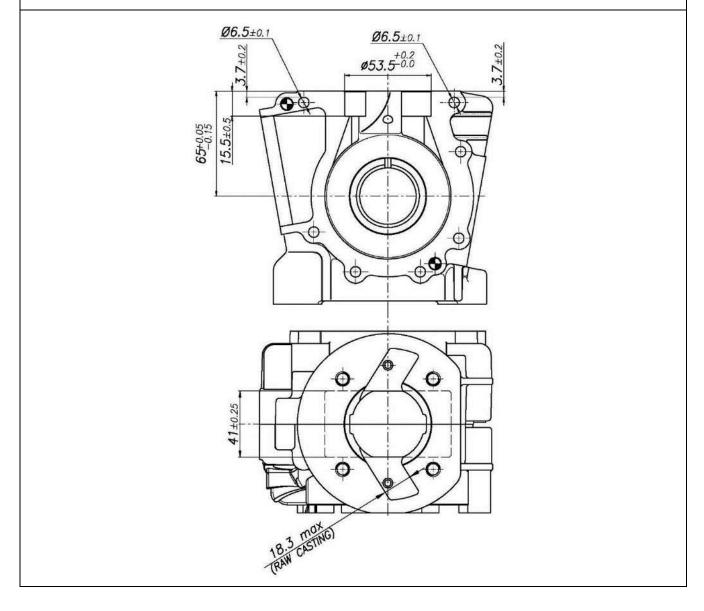


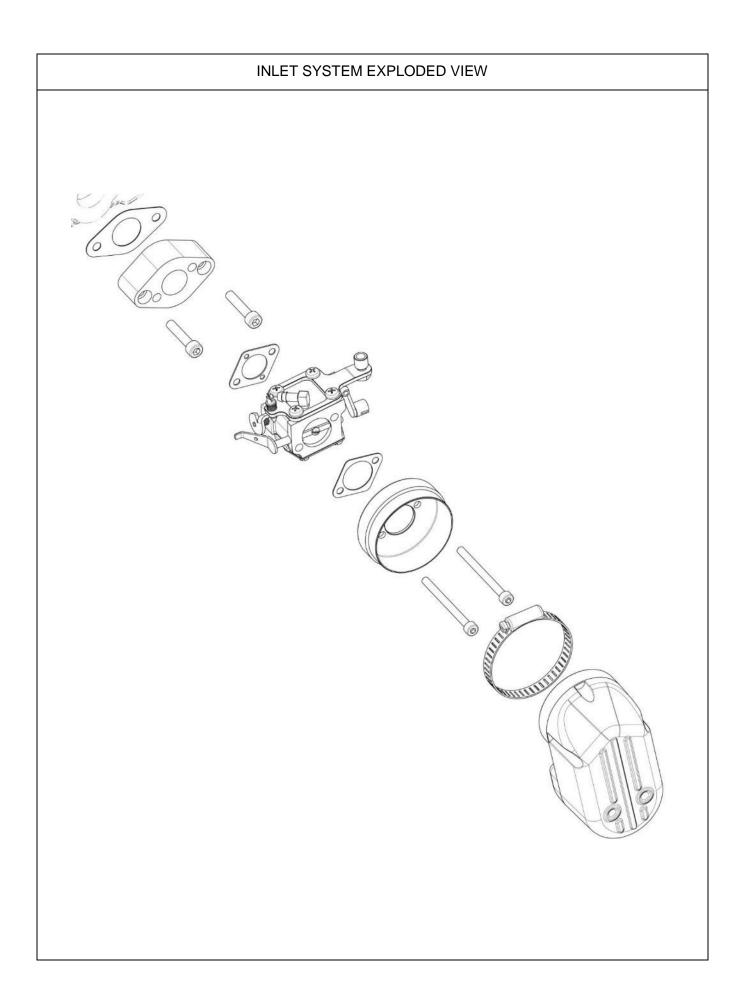
COMBUSTION CHAMBER VIEW



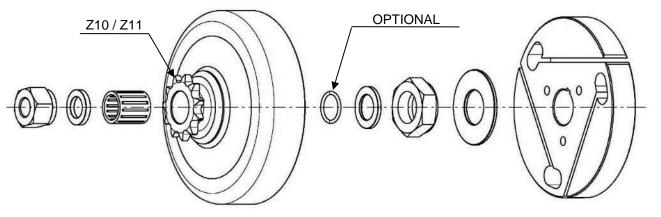


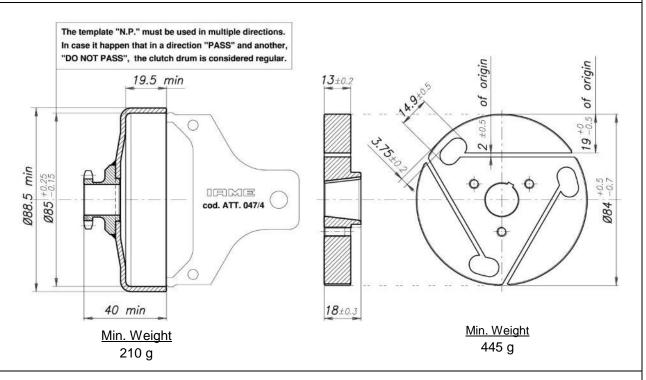
CRANKCASE INSIDE VIEW



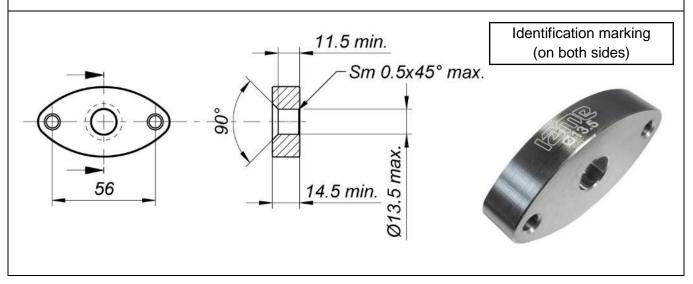


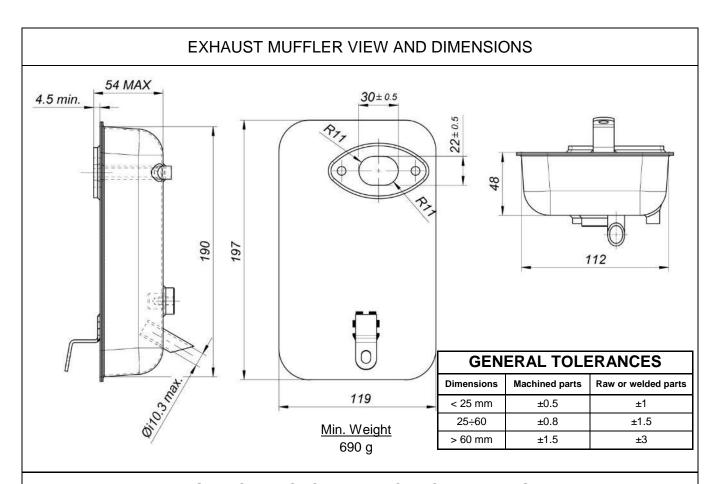
ESCRIPTION OF THE CLUTCH OPTIONAL Z10 / Z11



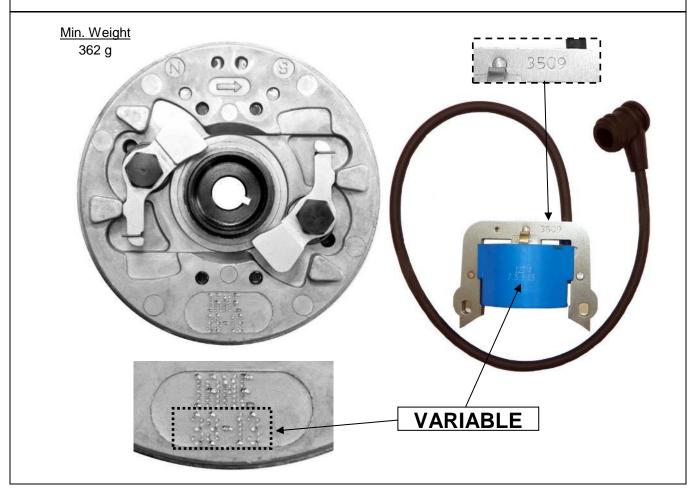


EXHAUST MANIFOLD

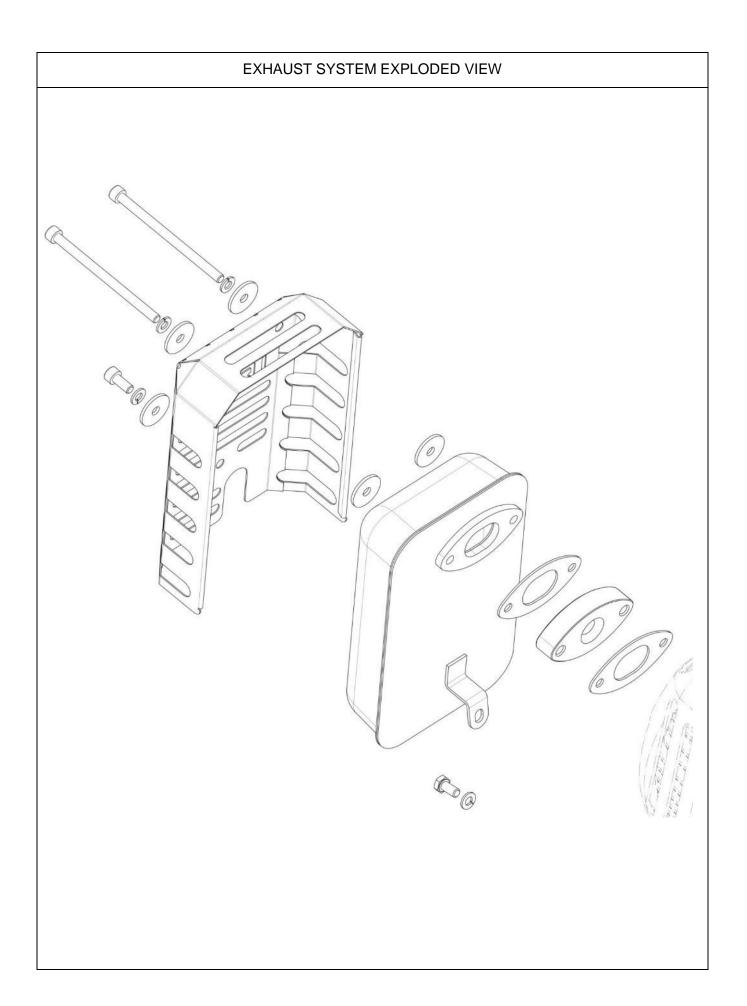


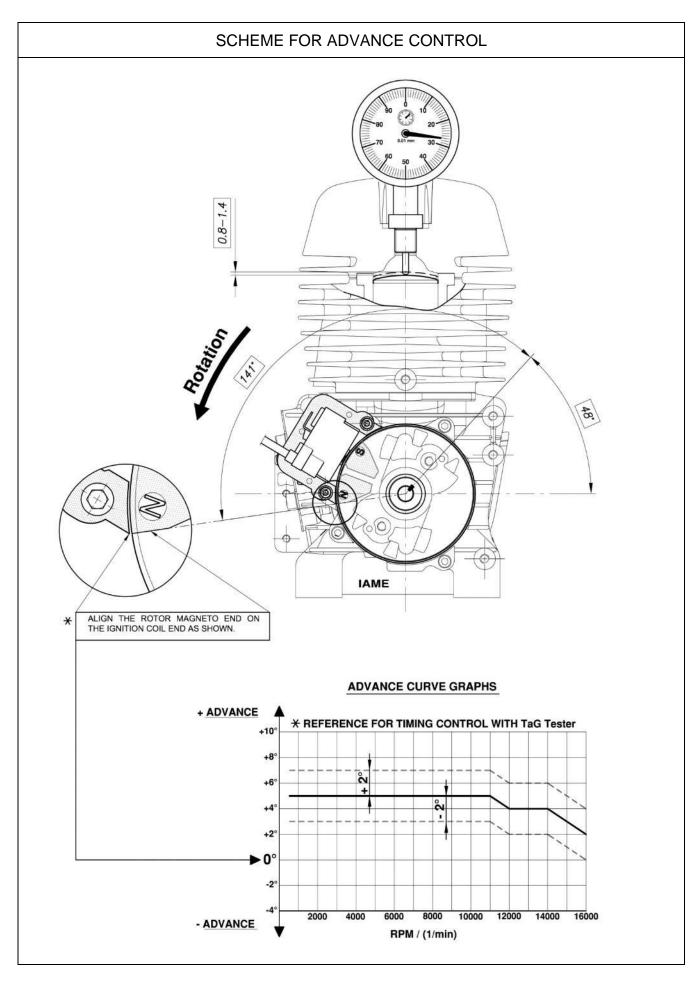


IGNITION PHOTO IDENTIFICATION MARKING

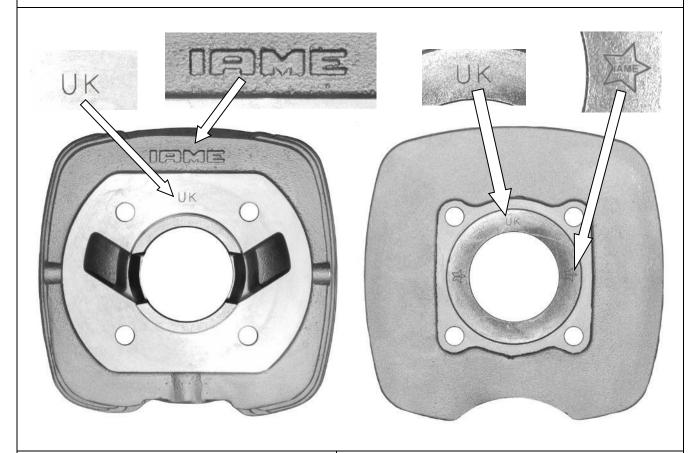


ALTERNATIVE IGNITION ROTOR CURRENT ROTOR NEW ROTOR

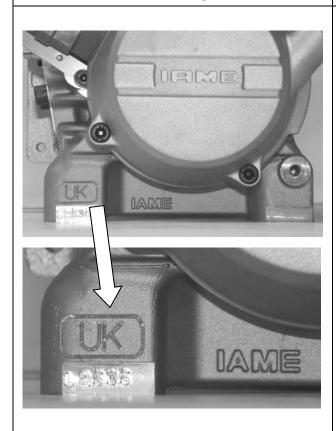




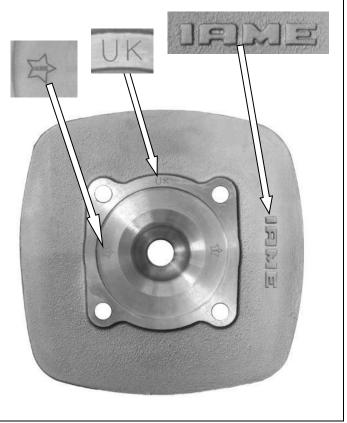
CYLINDER IDENTIFICATION MARKING



CRANKCASE IDENTIFICATION MARKING



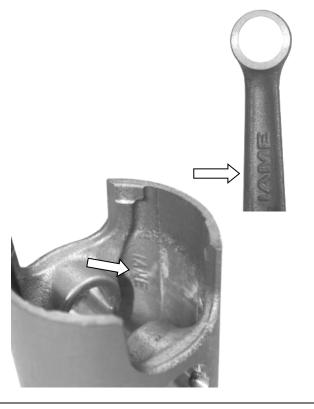
CYLINDER HEAD IDENTIFICATION MARKING



EXHAUST IDENTIFICATION MARKING

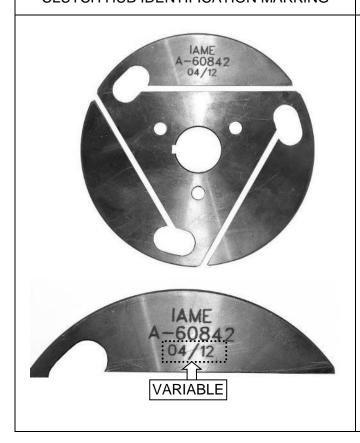
CONROD / PISTON IDENTIFICATION MARKINGS

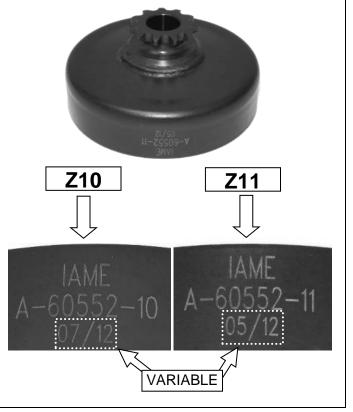




CLUTCH HUB IDENTIFICATION MARKING

CLUTCH DRUM IDENTIFICATION MARKING





CRANKSHAFT PHOTOS









CRANKSHAFT IDENTIFICATION MARKINGS

PARTICULAR OF COMPLETE CRANKSHAFT





ALTERNATIVE CLUTCH DRUM IN-SOSS2-11 06/16P **Z11 Z10**

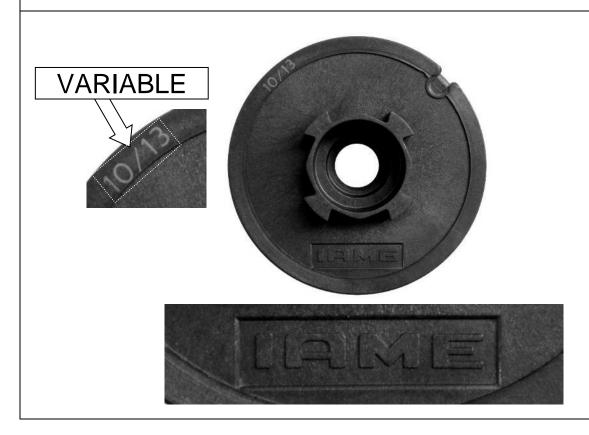
VARIABLE

ALTERNATIVE CLUTCH COVER





PULLEY PHOTO IDENTIFICATION MARKING



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









NEW LOGO



EXHAUST



NEW LOGO



COMPONENTS WITH ALTERNATIVE NEW LOGO "IAME"

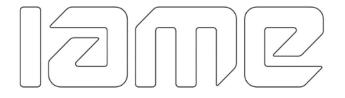
THE OTHERS COMPONENTS OF ENGINE THAT ARE MARKED (LASER OR PUNCHING) UNTIL TODAY WITH LOGO OR WRITTEN "IAME"



<u>or</u>

IAME

NOW COULD BE MARKED WITH NEW LOGO "IAME"



or



<u>or</u>







CARBURETTOR Tillotson HS-325A



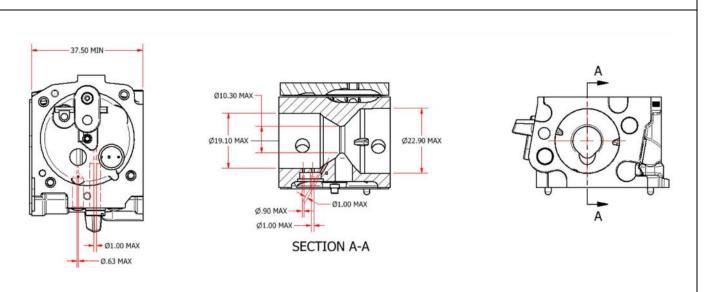


PHOTO OF ADJUSTING SIDE

PHOTO OF INLET SIDE

Manufacteur	TILLOTSON LTD.
Make	TILLOTSON
Model	HS-325A

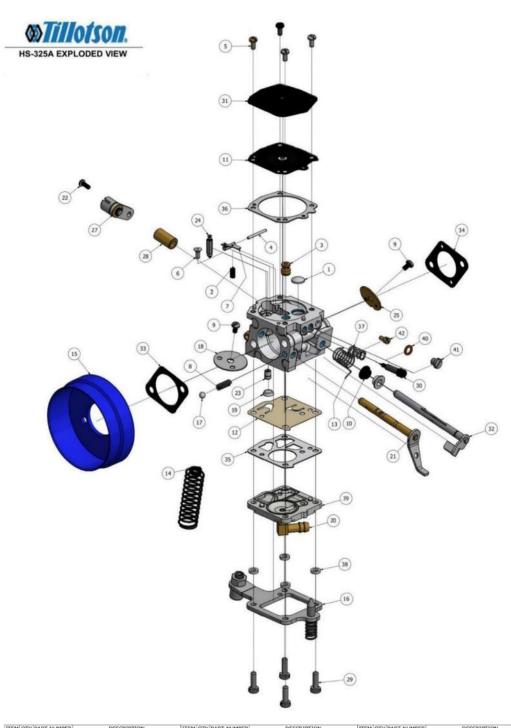
SECTION VIEW



"IAME" MARKING



CARBURETTOR DESCRIPTION AND SKETCH OF PARTS



ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	179-59	* WELCH PLUG	18	1	27-392	CHOKE SHUTTER	35	1	16-8514	+* PUMP GASKET (ORANGE)
2	1	24-B323	INLET TENSION SPRING 26g	19	1	95-177	FILTER SCREEN	36	1	16-B513	+* METERING GASKET (ORANGE)
3	1	363-598	CHECK VALVE	20	1	68-307	FUEL CONNECTOR	37	1	24-B449	ADJUSTMENT SCREW SPRING
4	1	32-78	FULCRUM PIN	21	1	26-1279	CHOKE SHAFT & LEVER ASSEMBLY	38	4	78-A351	NYLON WASHER
5	4	15-C19	4-40 UNC SCREW	22	1	15-B348	3-48 UNC SCREW	39	1	91-1036	PUMP COVER ASSEMBLY
6	1	15-B345	FULCRUM PIN SCREW	23	1	36-A33	INLET SEAT	40	1	16-B184	RUBBER WASHER
7	1	155-A71	* FULCRUM LEVER	24	1	34-216	+ INLET NEEDLE	41	1	15-C135	SCREW - CAP
8	1	24-B281	SPRING	25	1	14-A133	THROTTLE SHUTTER	42	1	49-B134	FIXED JET43MM
9	2	15-C20	4-40 UNC SCREW	26	1	219-D281	MACHINED BODY				
10	2	102-204	PLASTIC SLEEVE	27	1	12-1228	THROTTLE LEVER & SWIVEL ASSEMBLY			*	REPAIR KIT CONTENTS
11	1	237-653	+* METERING DIAPHRAGM	28	1	102-236	BRASS SLEEVE			+	DIAPHRAGM & GASKET SET CONTENTS
12	1	237-143	+* TEFLON PUMP DIAPHRAGM	29	4	15-C127	6-32 SCREW & LOCK WASHER				
13	1	24-C29	THROTTLE RETURN SPRING	30	1	43-A268	M4 X 0.5 ADJUSTMENT SCREW			RK-28HS	REPAIR KIT
14	1	24-C334	CABLE RETURN SPRING	31	1	91-A274	METERING COVER			DG-7HS	DIAPHRAGM & GASKET SET
15	1	SA-506	CHOKE TRUMPET	32	1	13-2160	THROTTLE SHAFT & LEVER ASSEMBLY				
16	1	136-569	CABLE BRACKET ASSEMBLY	33	1	16-B384	+* FLANGE GASKET (CHOKE)				
17	1	206-121	BRASS BALL	34	1	16-B228	+* FLANGE GASKET (THROTTLE)				

PARTS OF CARBURETTOR

REF.36 - P. N°16-B513 DIAPHRAGM GASKET (ORANGE COLOR)



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

REF.11 - P. N°237-601



Thickness = 0.15 ± 0.05 mm

REF.31 - P. N° 91-A274 DIAPHRAGM COVER



Thickness = 3.10 ± 0.15 mm

REF.35 - P. N° 16-B514 PUMP DIAPHRAGM GASKET (ORANGE COLOR)



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

REF.12- P. N°237-143 PUMP DIAPHRAGM



Thickness = 0.21 ± 0.05 mm

REF.39 - P. N° 91-1036 PUMP COVER



Thickness = 6.30 ± 0.15 mm

