

HOMOLOGATION OF KART ENGINE

Category	IAME X30 JUNIOR & SENIOR
Manufacturer	IAME
Model	X30 125cc RL TaG - UK
Valid From	01 January 2014
Number of pages	20

This Homologation Form reproduces descriptions, illustrations and dimensions of the engine at the moment of the MSA Homologation. This document may be supplemented by official amendment. This document must be read in conjunction with the appropriate Class Regulations.



Photo of drive side of engine



Photo of opposite side of engine

SIGNATURE AND STAMP OF THE MSA

Date: **18 December 2013**

Signed by: **Joe Hickerton**

Position: **MSA Technical Administrator**

Any reproduction must be authorised by the MSA

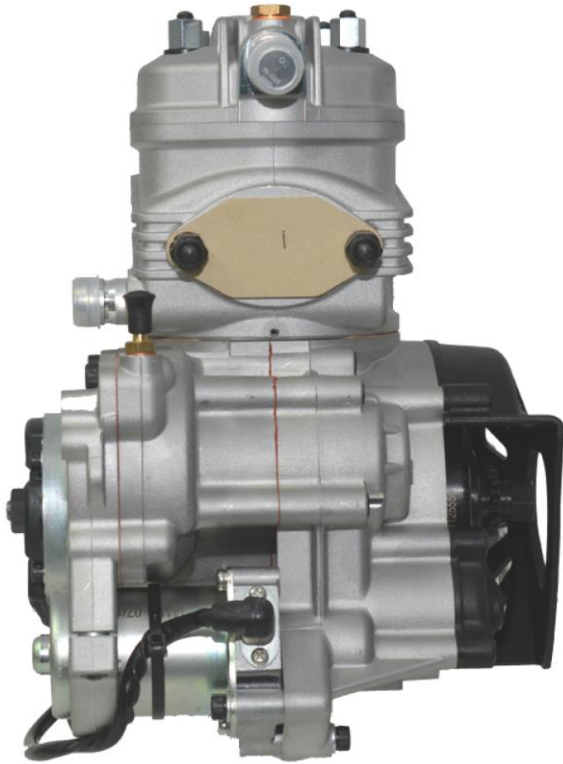


Photo of rear of engine



Photo of front of engine

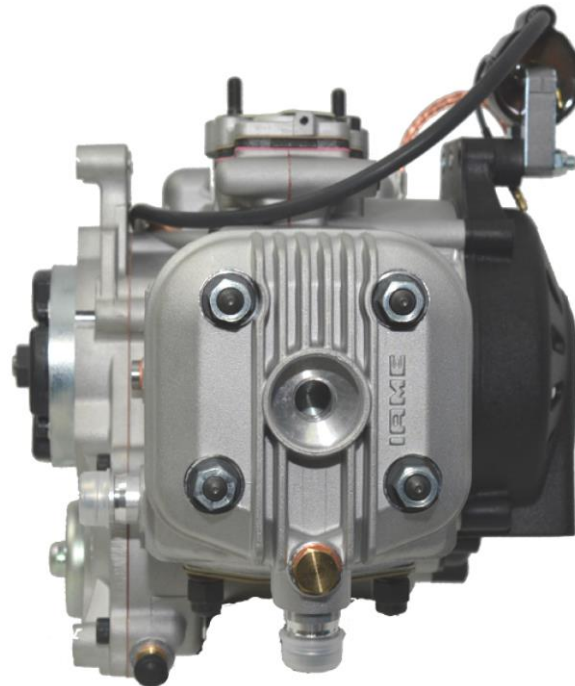


Photo of top of engine

LIST OF APPENDICES

No.	Type	Description	Page	Date
1	Supplement	IAME X30 Junior	21	18 December 2013
2	Supplement	Carburettor	23	18 December 2013
3	Variant	Alternative clutch drum	28	09 October 2014
4	Variant	Carburettor – alternative throttle shutter	30	14 October 2014
5	Variant	Alternative piston markings	31	24 September 2015
6	Variant	Alternative reed valve markings	32	24 September 2015
7	Variant	Alternative ignition & wiring loom	33	24 September 2015
8	Variant	Alternative push buttons – start & stop	35	24 September 2015
9	Variant	Alternative inlet conveyor	36	24 September 2015
10	Amendment	Carburettor – fuel needle measurement	37	24 September 2015
11	Supplement	IAME X30 Mini X	38	01 January 2017
12	Supplement	Mini X carburettor	39	01 January 2017
13	Amendment	Mandatory exhaust – Senior	44	01 January 2018
14	Variant	Alternative large radiator – Junior & Mini X	46	01 January 2018
15	Variant	Alternative water pump & pulley – Junior & Mini X	47	01 January 2018
16	Additional info.	Exhaust header flange thickness – Junior & Mini X	48	01 January 2018
17	Variant	Alternative fuel needle – Senior & Junior	49	01 January 2018
18	Variant	Alternative pump diaphragm	50	01 January 2018
19	Amendment	Low and high speed needle correction – Sen. & Jun.	51	01 January 2018
20	Amendment	Mandatory exhaust & restrictor – Junior	52	01 January 2019
21	Variant	Alternative inlet silencer / air box	54	01 January 2019
22	Additional info.	Balance shaft / gear timing diagram	55	01 January 2019
23	Variant	Alternative wiring loom	56	01 January 2019
24	Variant	Alternative small end conrod bearings	58	01 January 2019
25	Variant	New logo markings	59	01 January 2019
26	Amendment	Mandatory exhaust & restrictor – Mini	62	01 January 2020
27	Variant	Alternative wiring loom	64	01 January 2020
28	Variant	Alternative conrod and thrust washer	65	01 January 2020
29	Amendment	Crankshaft & main bearing dimensions	67	01 January 2020

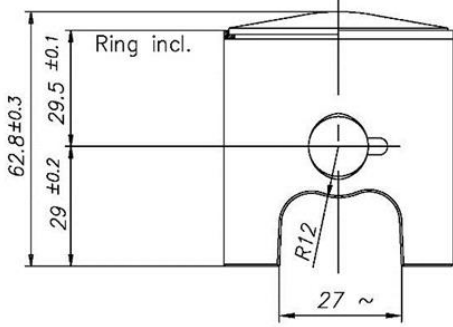
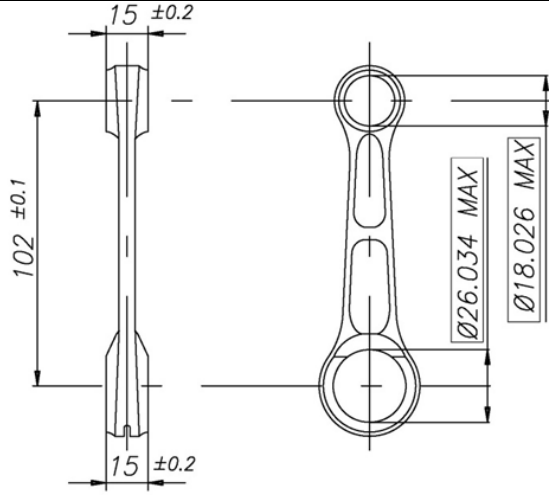
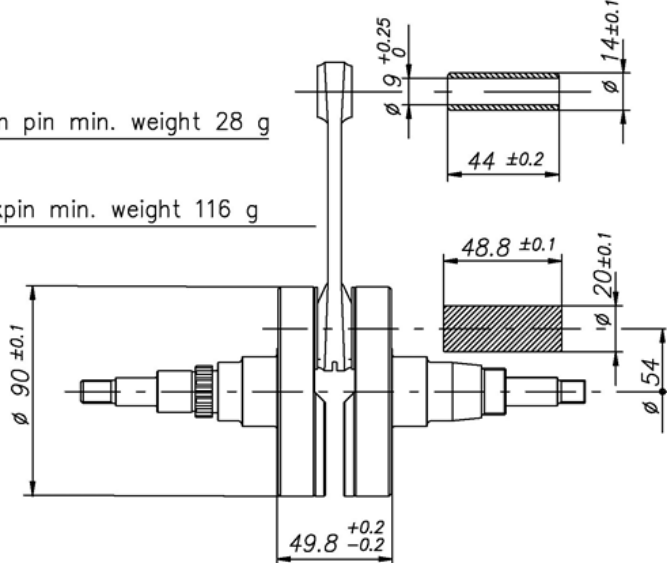
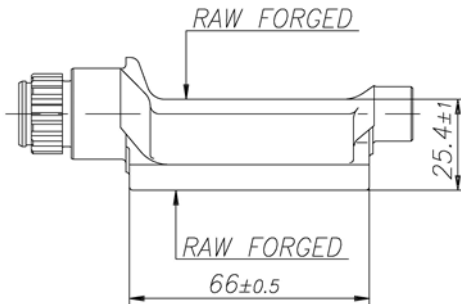
Last updated: 01 January 2020



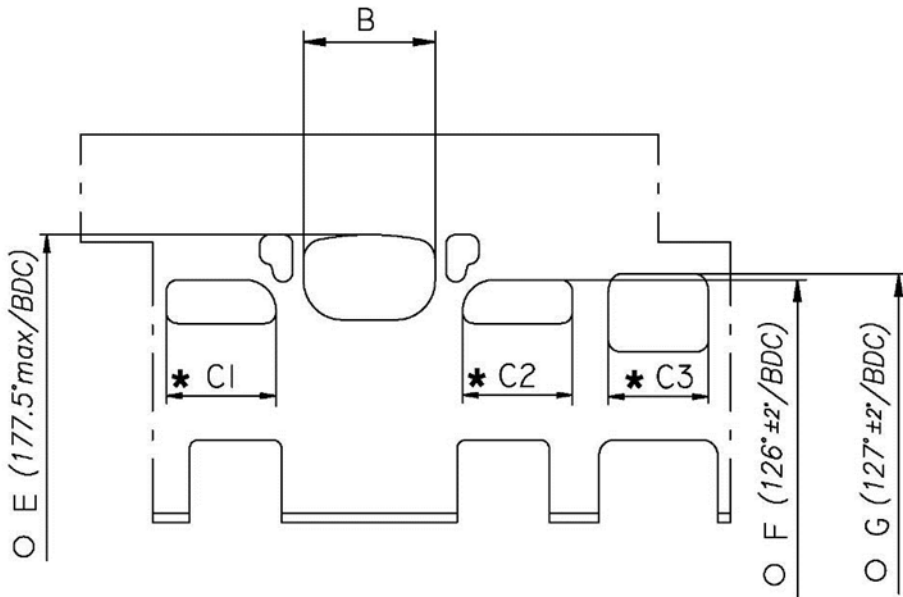
125cc RL TaG - UK

1.0 FEATURES

Cylinder volume	123.67 cm ³	Bore	54 mm
Max. theoretical bore	54.28 mm	Stroke	54 mm max.
Cooling system	Water	Inlet system	Reed valve
Tillotson Carburettor	HW-27A Ø27mm	Number of piston rings	1
Cylinder/crankcase transfers	3	Inlet/exhaust ports	3
Combustion chamber shape	Spherical	Distance between Conrod centers	102 mm
Small end conrod ball-bearing diameter	14x18x17.5	Big end conrod ball-bearing diameter	20x26x15
Crankshaft ball-bearing diameter	30x62x16	Selettra ignition	Digital
RPM limiter	Yes	Generator for battery charging	Yes
Balancing shaft	Yes	Electric starter	Yes

2.0 MATERIAL		3.0 PISTON
Conrod material	Steel	 <p>Piston min. weight (ring incl.) 128 g</p>
Crankshaft material	Steel	
Balancing shaft material	Steel	
Gears material	Steel	
Starter ring material	Steel	
Head material	Aluminium	3.1 DISTANCE BETWEEN CONROD CENTERS
Cylinder material	Aluminium	 <p>Min. weight 110 g</p>
Liner material	Iron	
Crankcase material	Aluminium	
Piston material	Aluminium	
Piston rings material	Iron	
Exhaust muffler material	Sheet-steel	
Ball-bearings	6206 type	
3.2 CRANKSHAFT <i>see Appendix 29</i>		
 <p>Piston pin min. weight 28 g</p> <p>Crankpin min. weight 116 g</p> <p>Complete crankshaft min. weight 2150 g</p>		 <p>RAW FORGED</p> <p>RAW FORGED</p> <p>Min. weight 315 g</p>

4.0 CYLINDER DEVELOPMENT

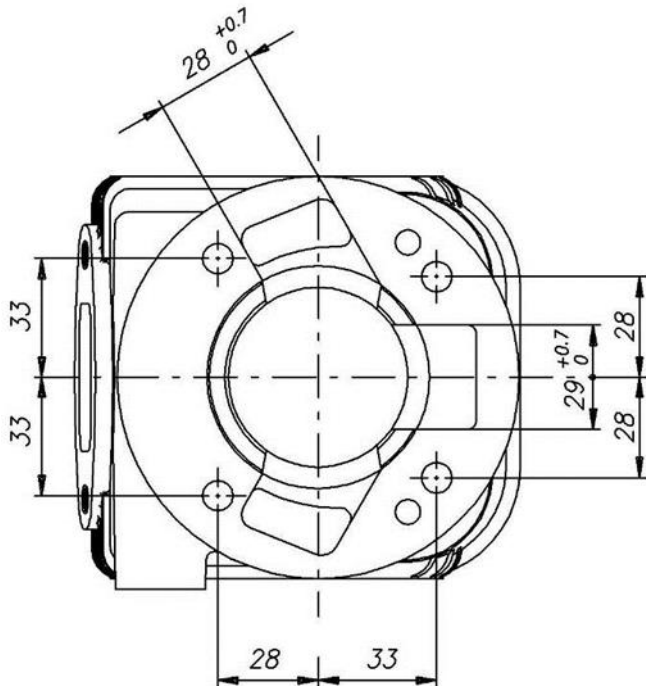


B	≤ 36.5 mm
C1 = C2	≤ 30 mm
C3	≤ 28.5 mm
E	177.5° max
F	126° ± 2°
G	127° ± 2°

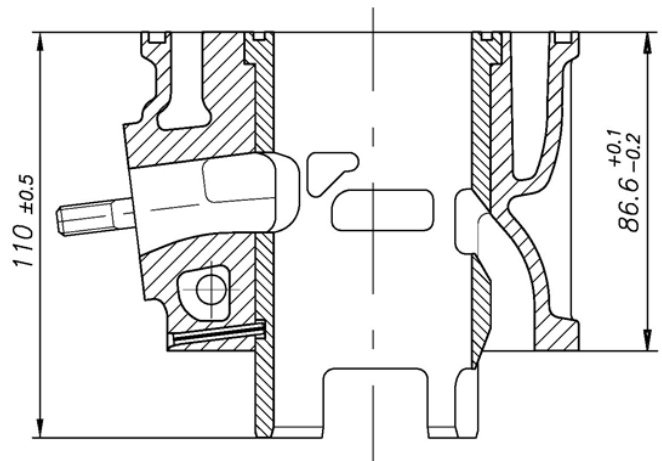
* CHORDAL READING

○ ANGULAR READING BY INSERTING A 0.2X5 mm GAUGE

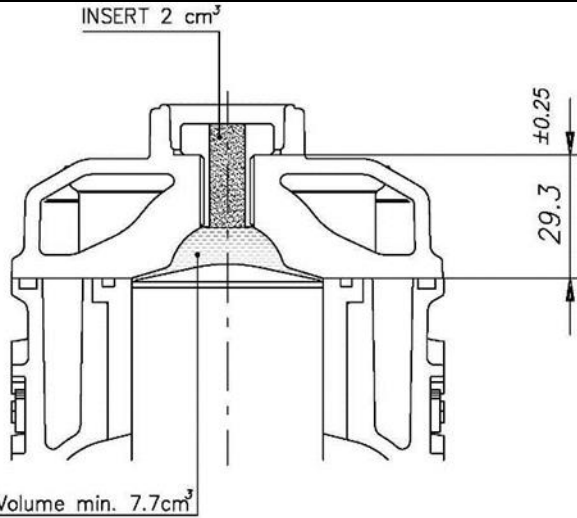
4.1 CYLINDER BASE VIEW



4.2 CYLINDER CROSS-SECTION VIEW



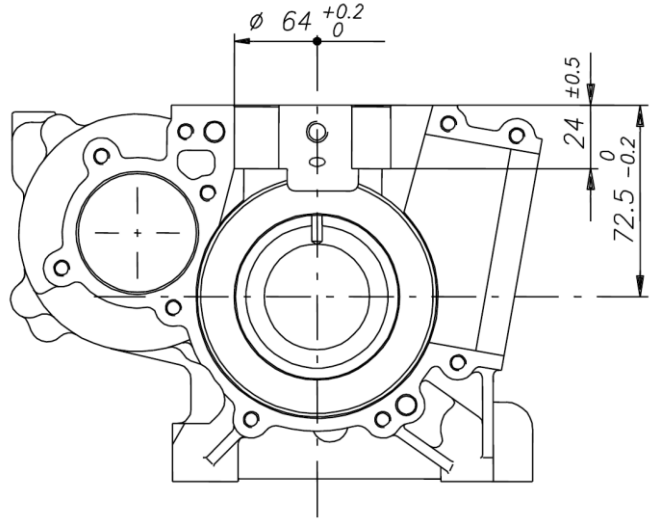
5.0 COMBUSTION CHAMBER VIEW



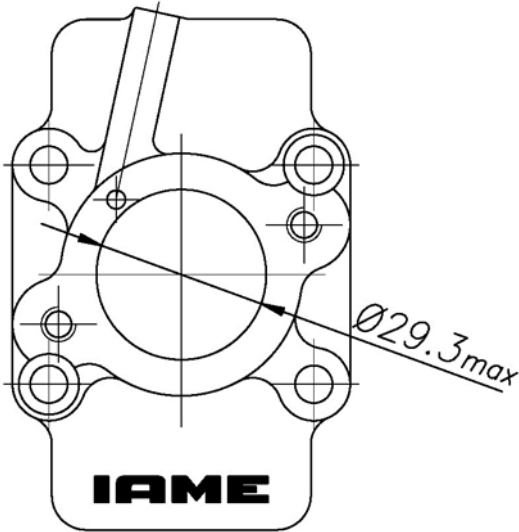
COMBUSTION CHAMBER VOLUME TOT. = 9.7 cm³ min.

SQUISH MIN.= 0.90 mm (measured with Ø1.6mm TIN)

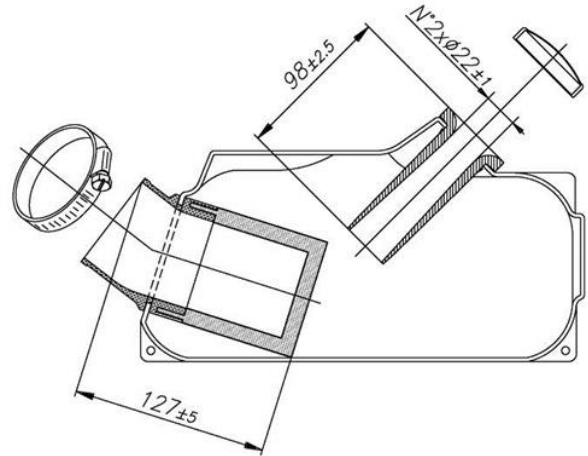
6.0 CRANKCASE INSIDE VIEW



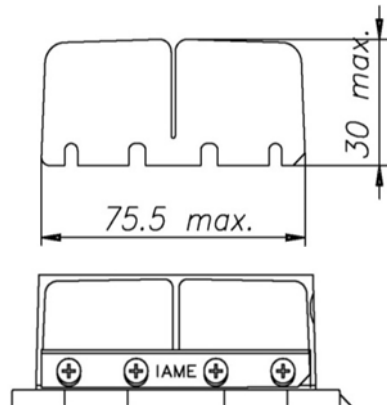
7.0 INLET CONVEYOR DIMENSIONS & IDENTIFICATION MARKING



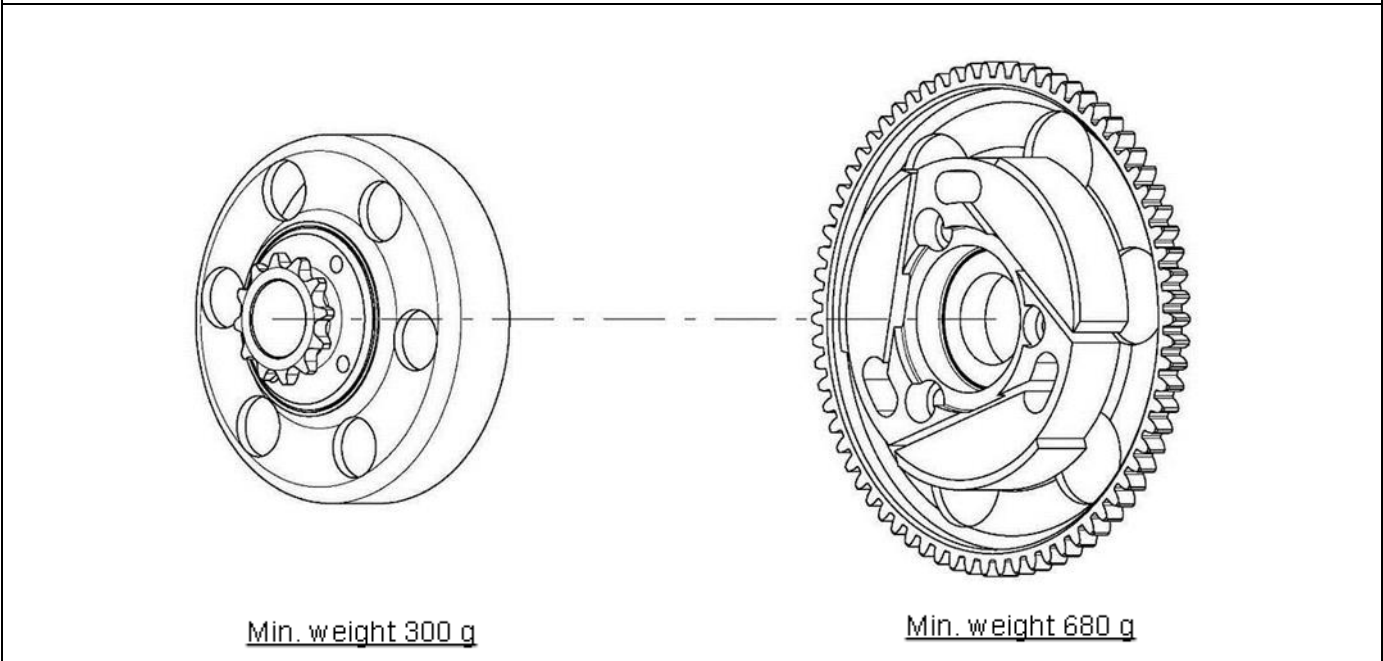
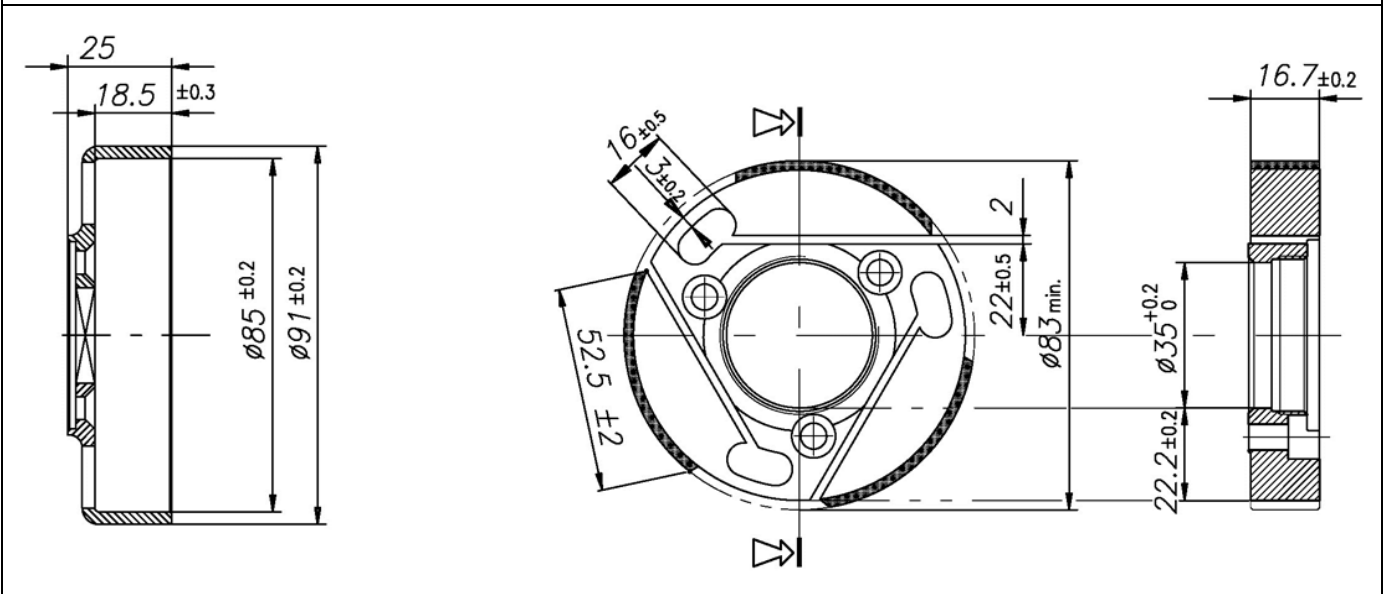
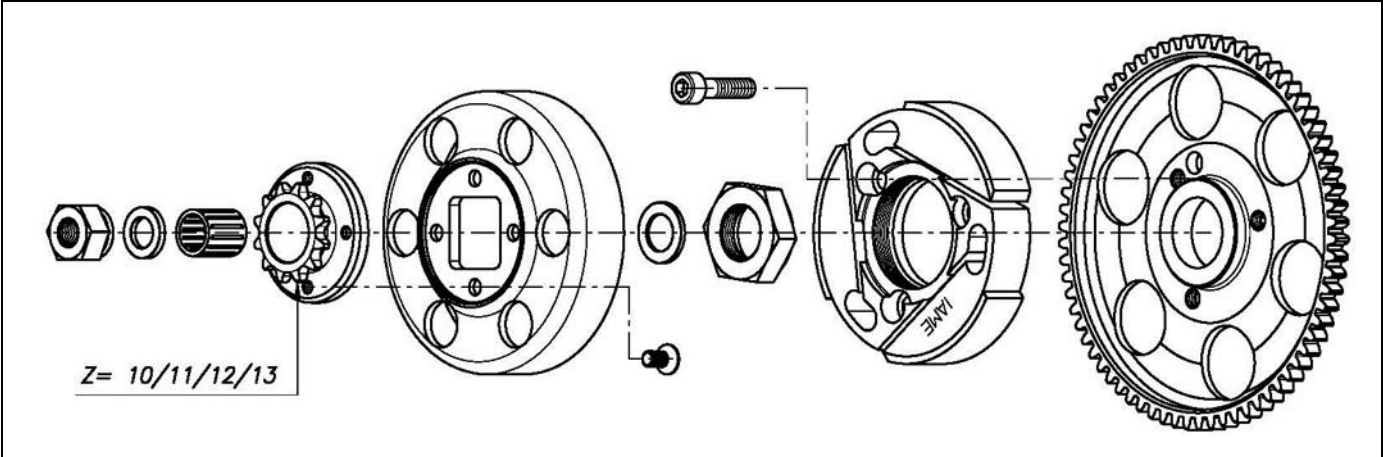
7.1 INLET SILENCER



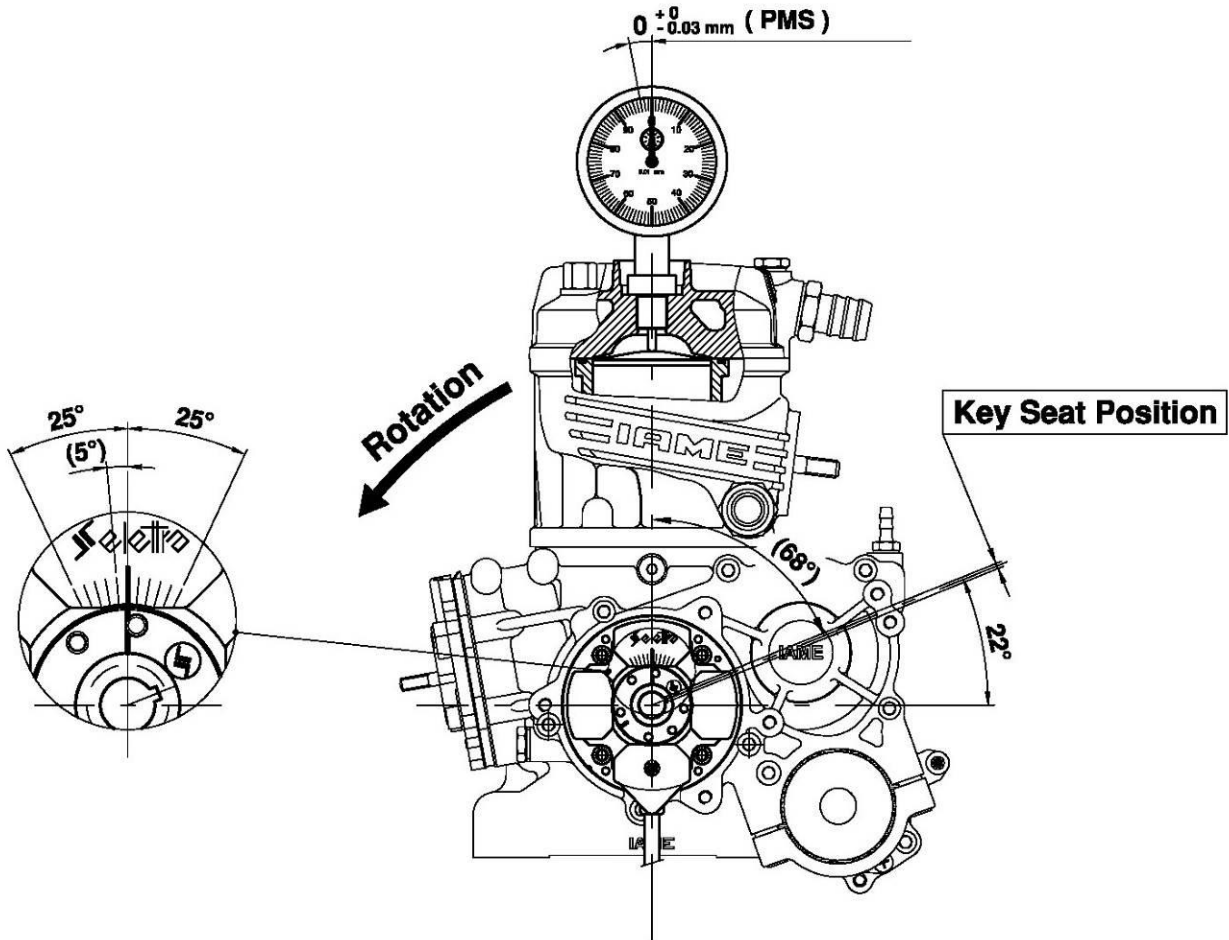
7.2 REED DIMENSIONS



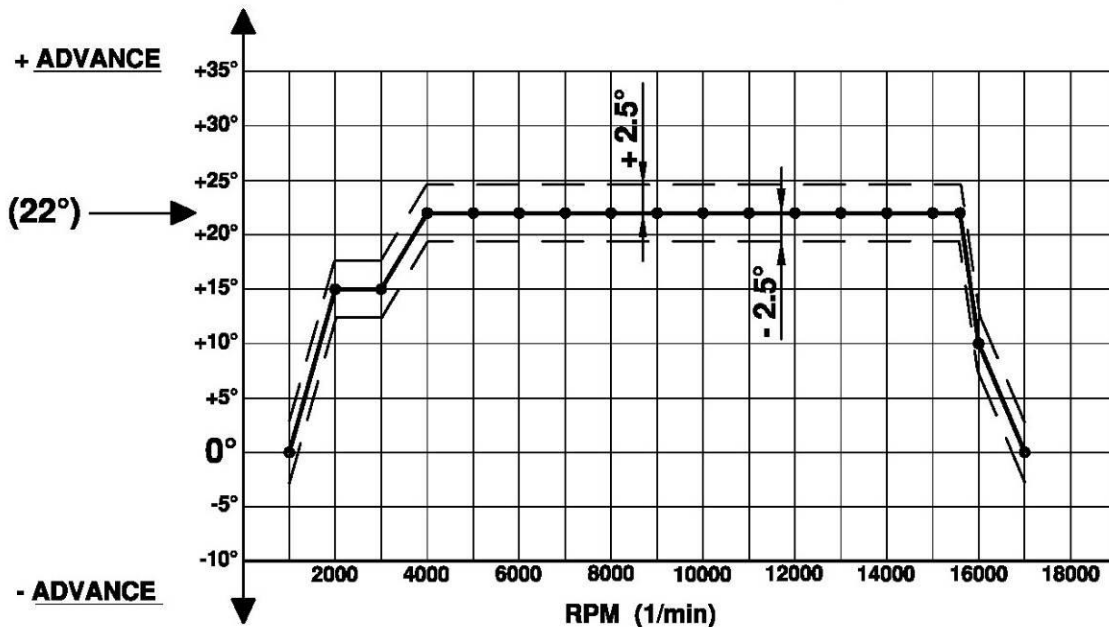
8.0 CLUTCH



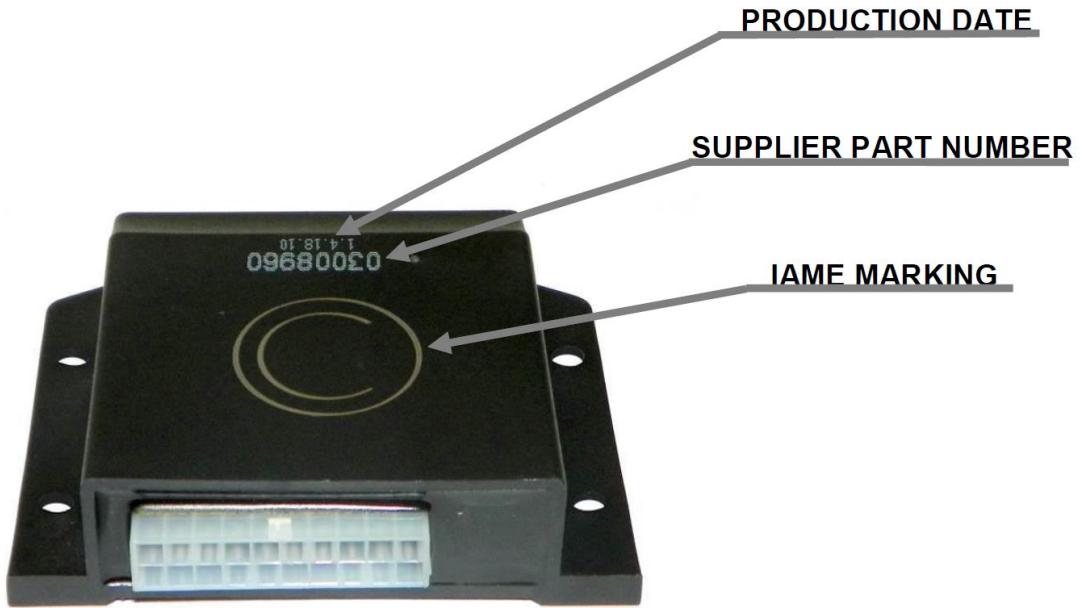
10.0 SCHEME FOR ADVANCE CONTROL



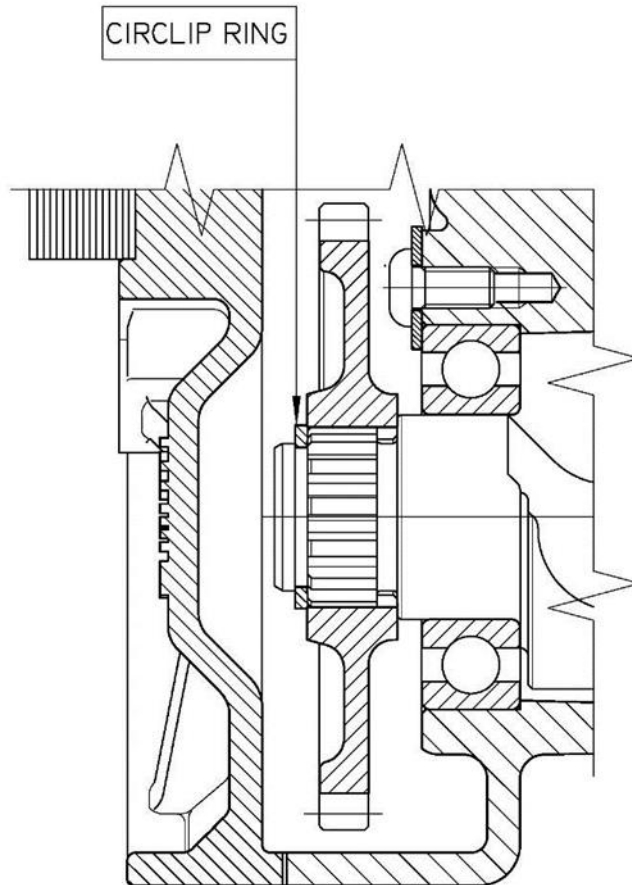
ADVANCE CURVE GRAPHS



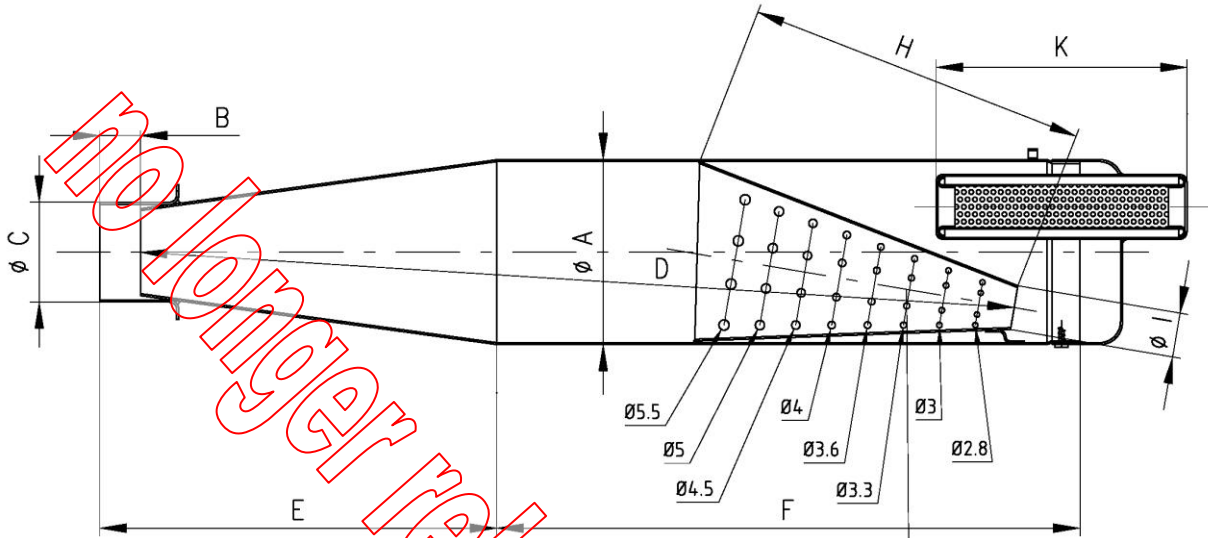
11.0 ELECTRONIC BOX



12.0 GEAR FIXING



13.0 EXHAUST MUFFLER



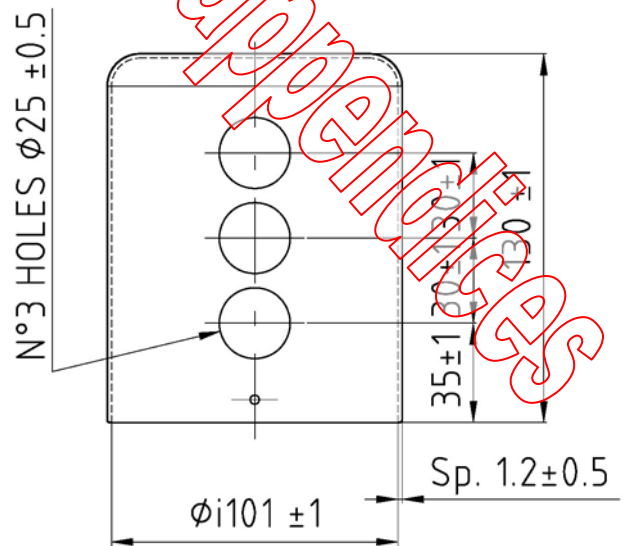
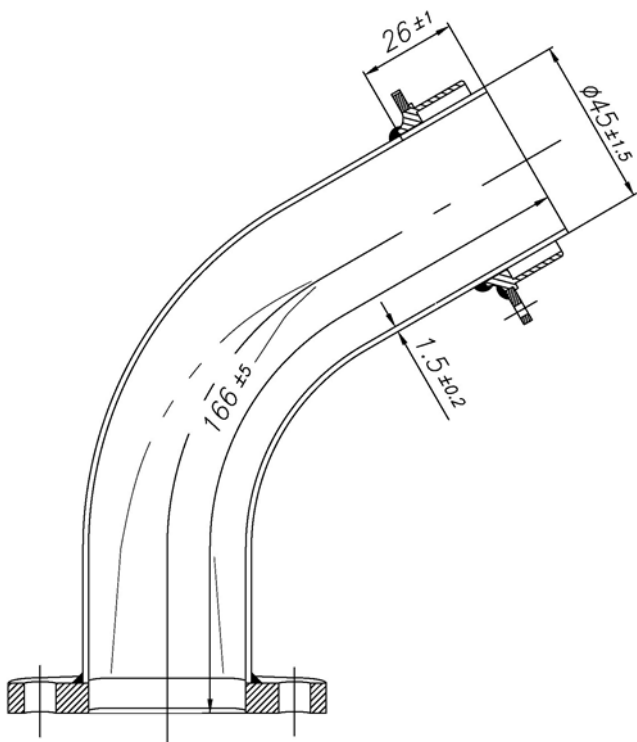
N° 8 ROWS OF HOLES. THE ROWS ARE COMPOSED OF N°8 HOLES, FOR A TOT OF 64 HOLES. THE HOLES HAVE A TOLLERANCE OF ±0.2

A: $100 \pm 1 \text{ } \phi \text{ ext.}$	D: 485 ± 3	H: 180 ± 5
B: 22 ± 1	E: 218 ± 5	I: $24 \pm 2 \text{ } \phi \text{ ext.}$
C: $54 \pm 1 \text{ } \phi \text{ ext.}$	F: 315 ± 3	K: 130 ± 3

Min. weight 1.39 kg

13.1 EXHAUST HEADER DIMENSIONS

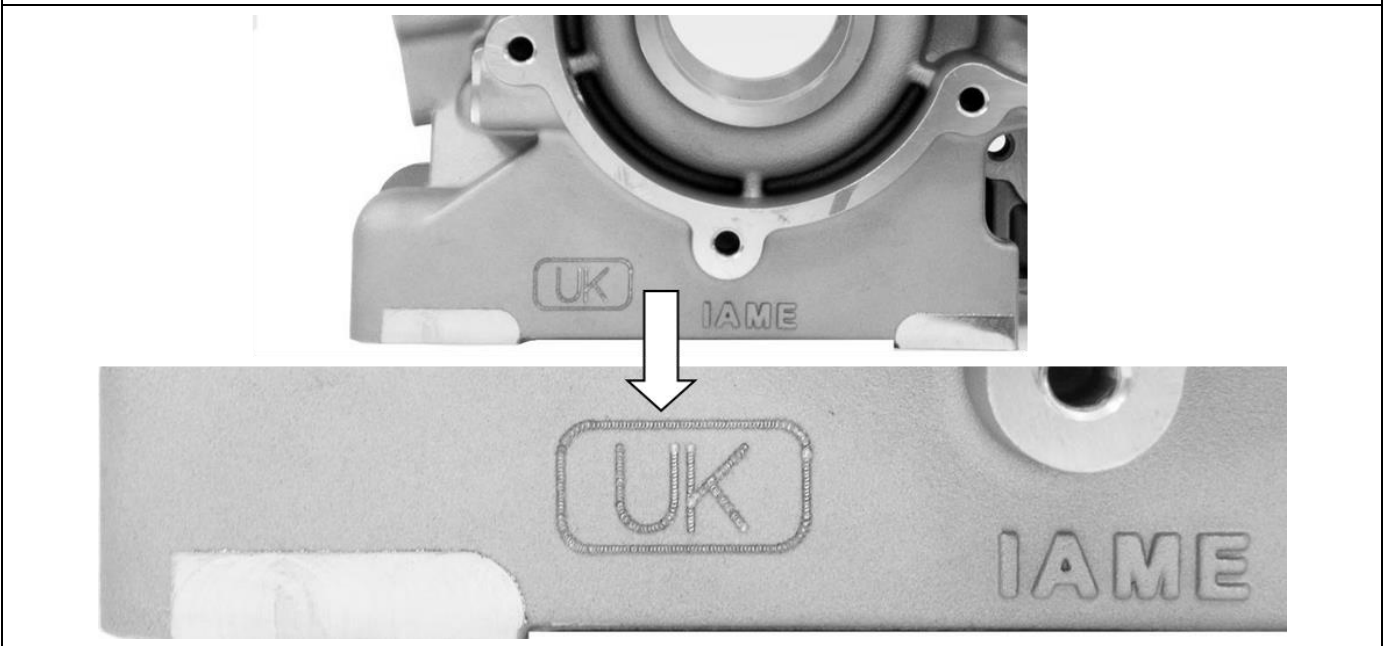
13.2 EXHAUST END CAN DIMENSIONS



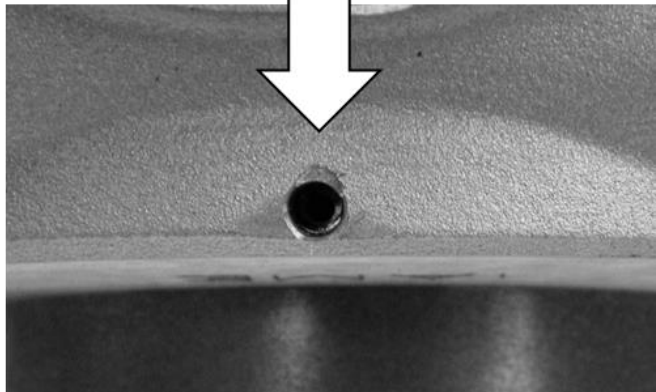
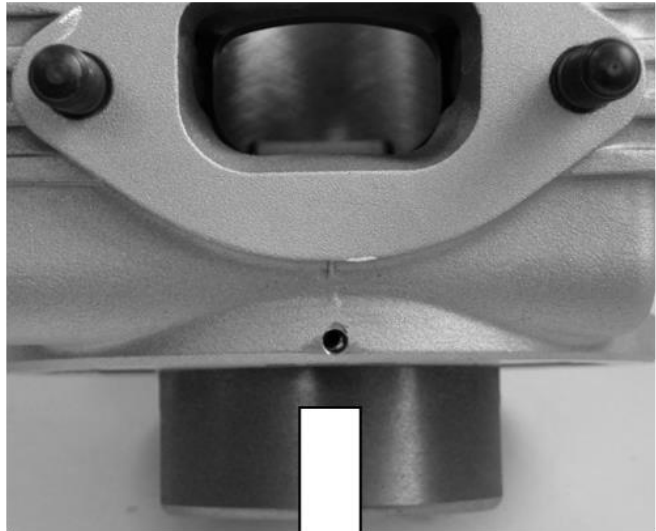
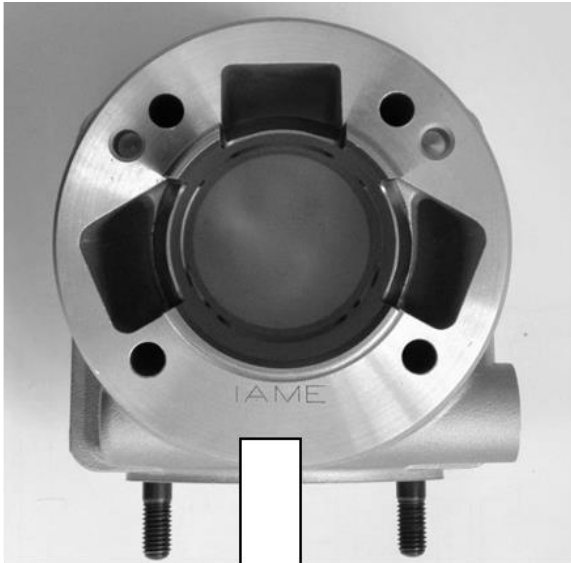
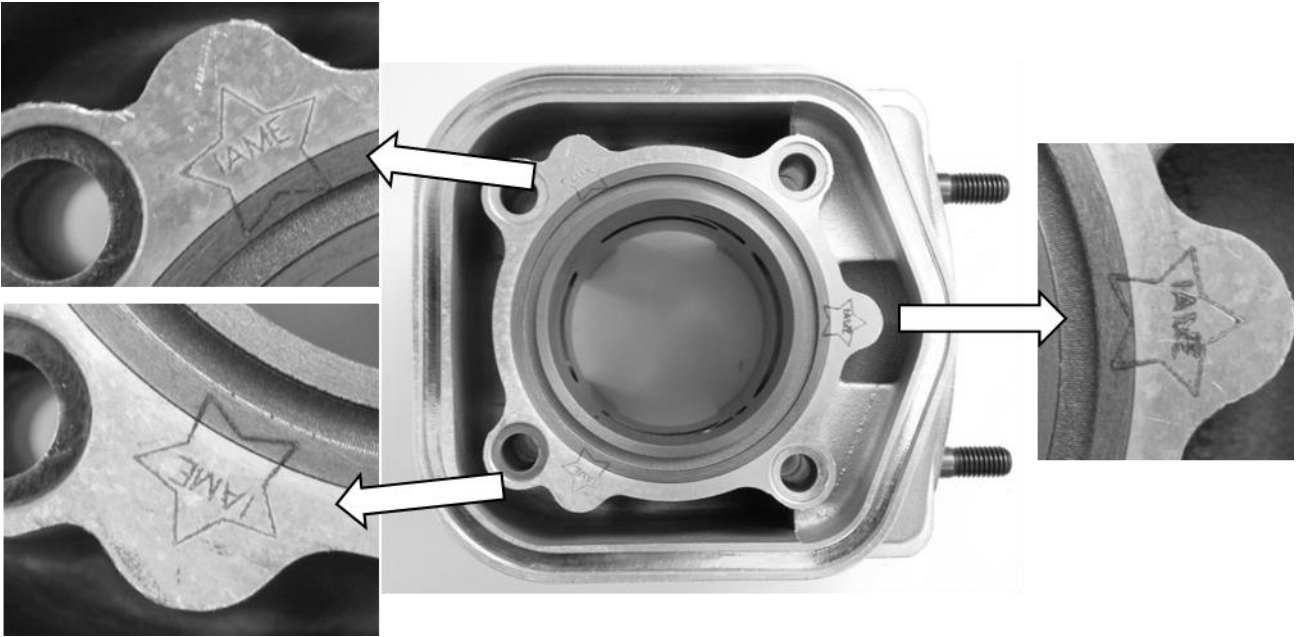
14.0 STICKER APPLICATION AREA



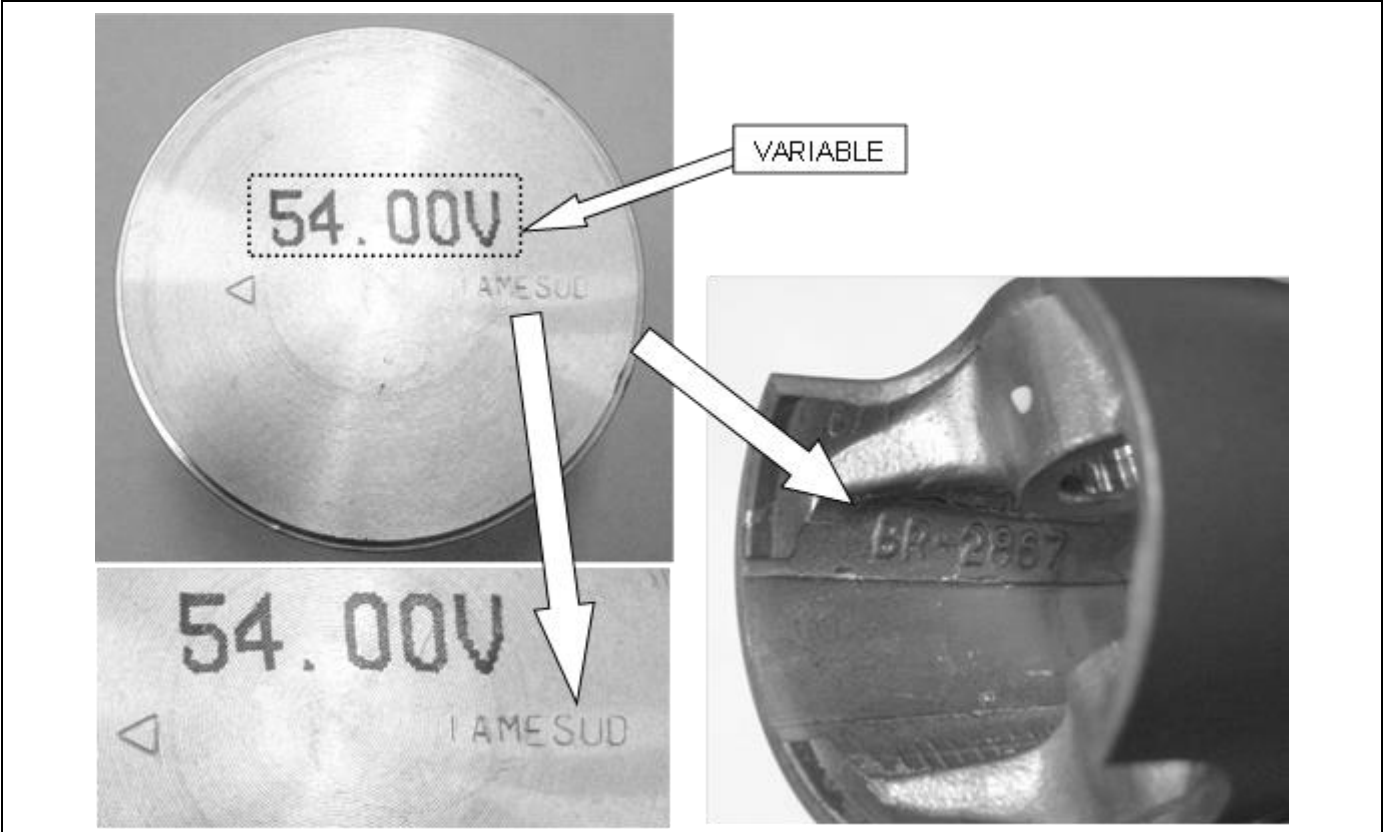
14.1 CRANKCASE IDENTIFICATION MARKING



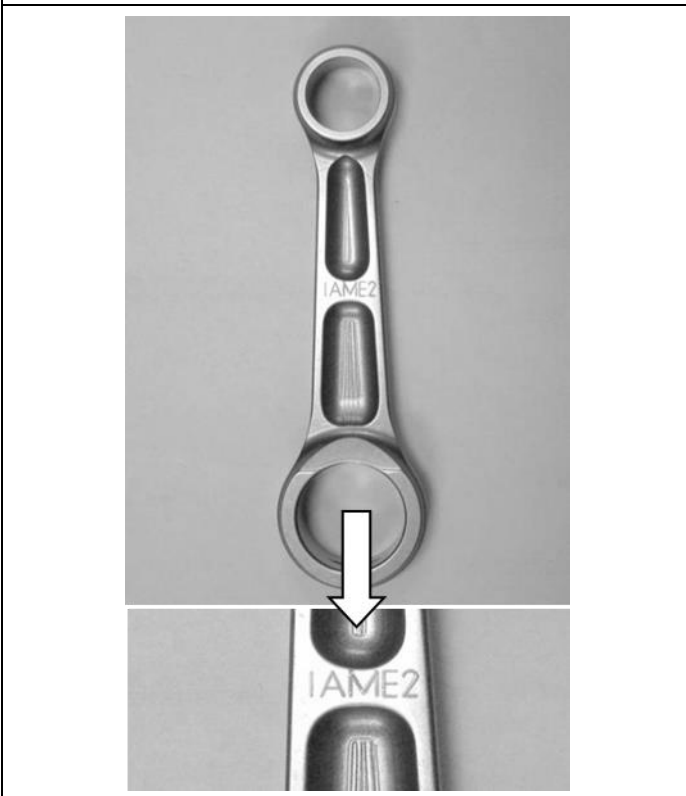
14.2 CYLINDER IDENTIFICATION MARKING



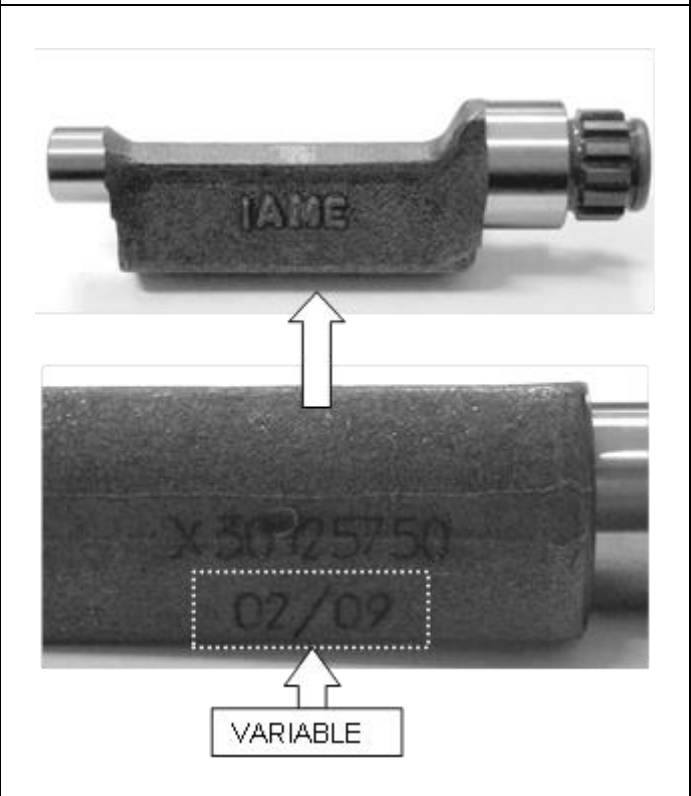
14.3 PISTON IDENTIFICATION MARKING



14.4 CONROD IDENTIFICATION MARKING



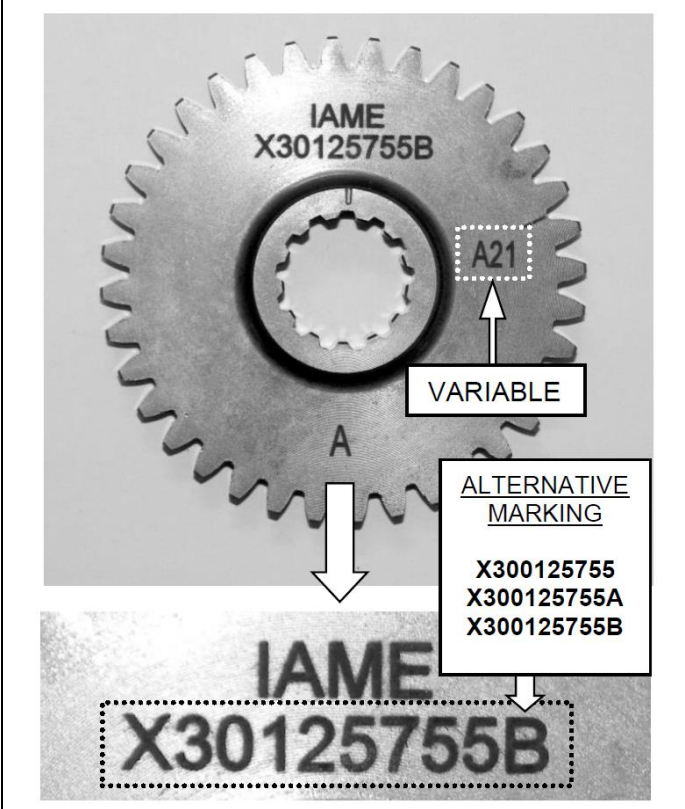
14.5 BALANCING SHAFT ID MARKING



14.6 CRANKSHAFT IDENTIFICATION MARKING



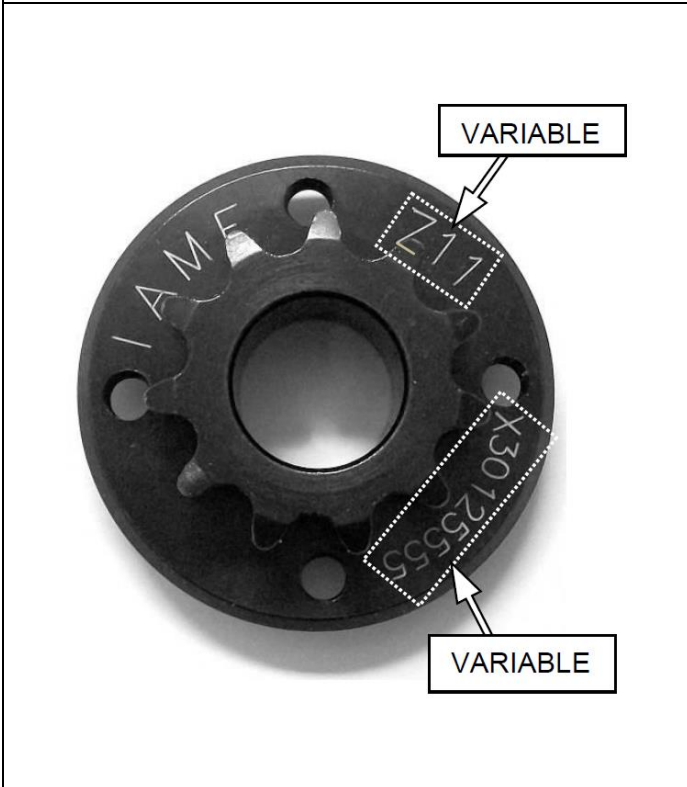
14.7 GEAR COMMAND BALANCING SHAFT IDENTIFICATION MARKING



14.8 STARTER RING ID MARKING



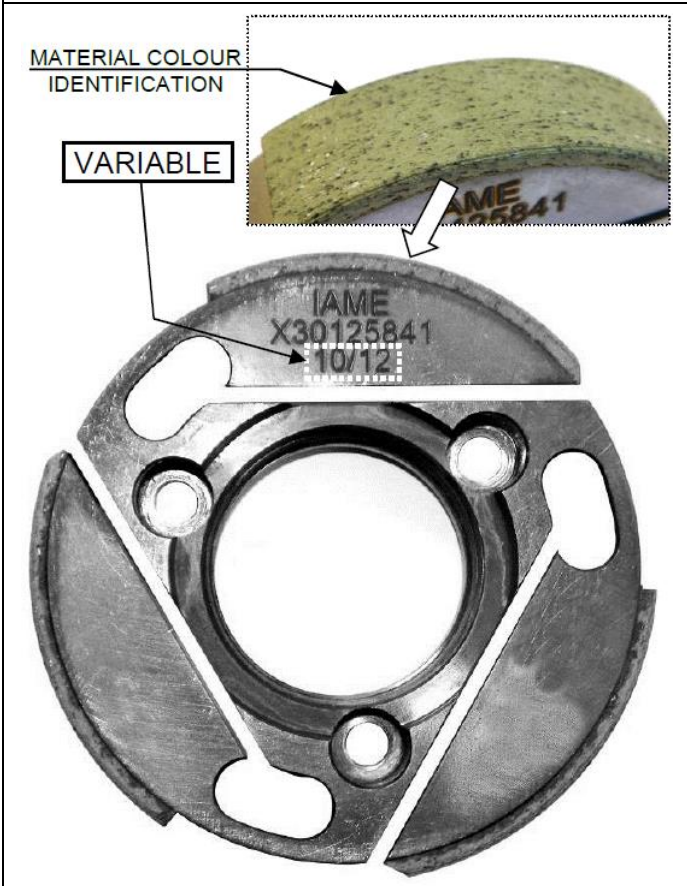
14.9 SPROCKET ID MARKING



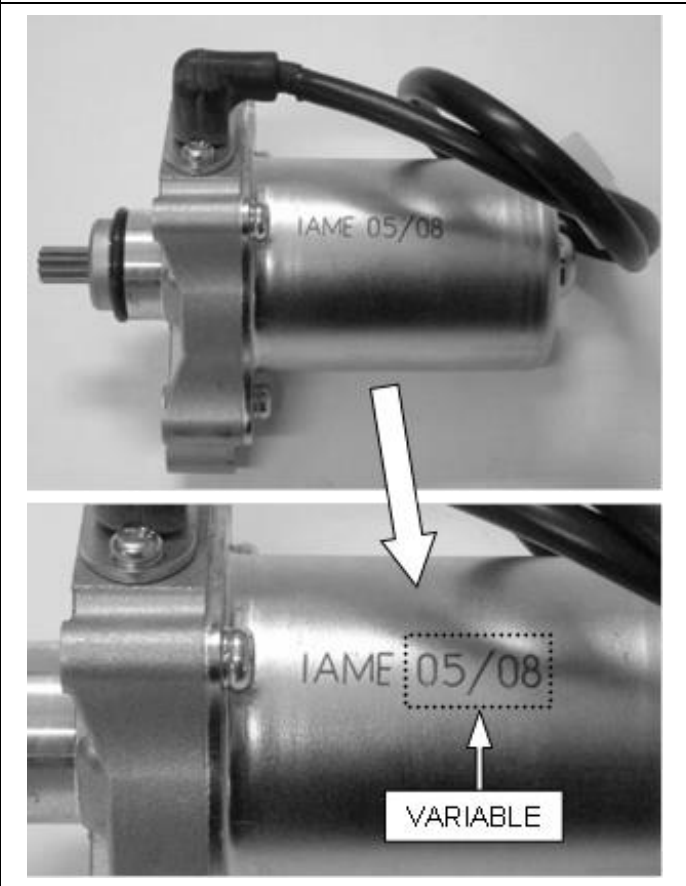
14.10 CLUTCH DRUM ID MARKING



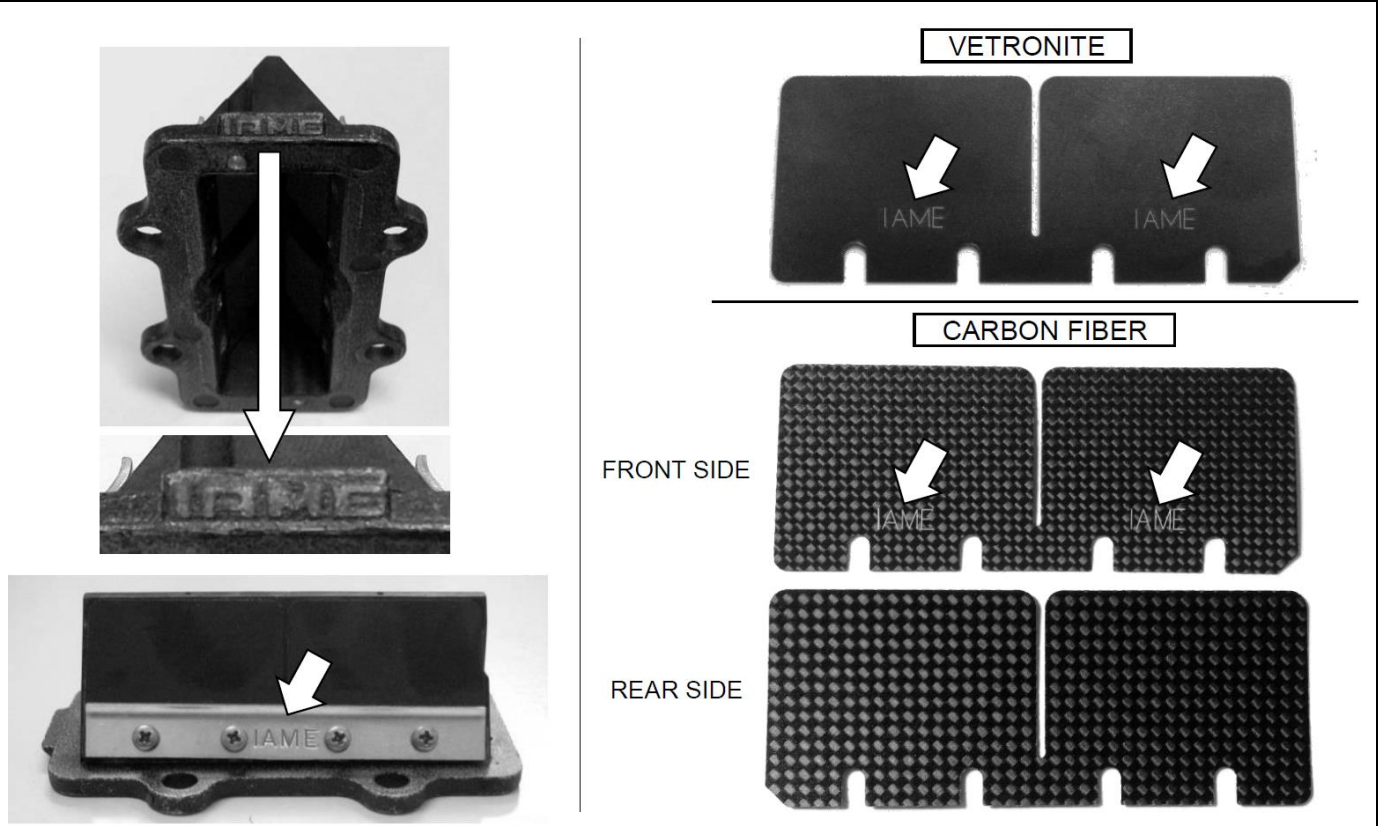
14.11 CLUTCH BODY ID MARKING



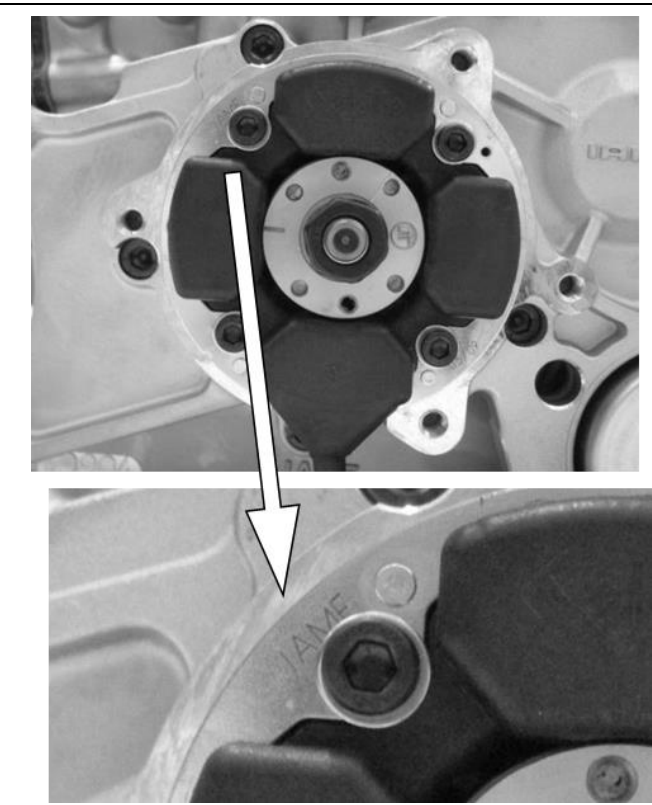
14.12 STARTER IDENTIFICATION MARKING



14.13 REED GROUP & PETAL IDENTIFICATION MARKING



14.14 STATOR IDENTIFICATION MARKING



14.15 EXHAUST IDENTIFICATION MARKING



14.16 EXHAUST HEADER ID MARKING



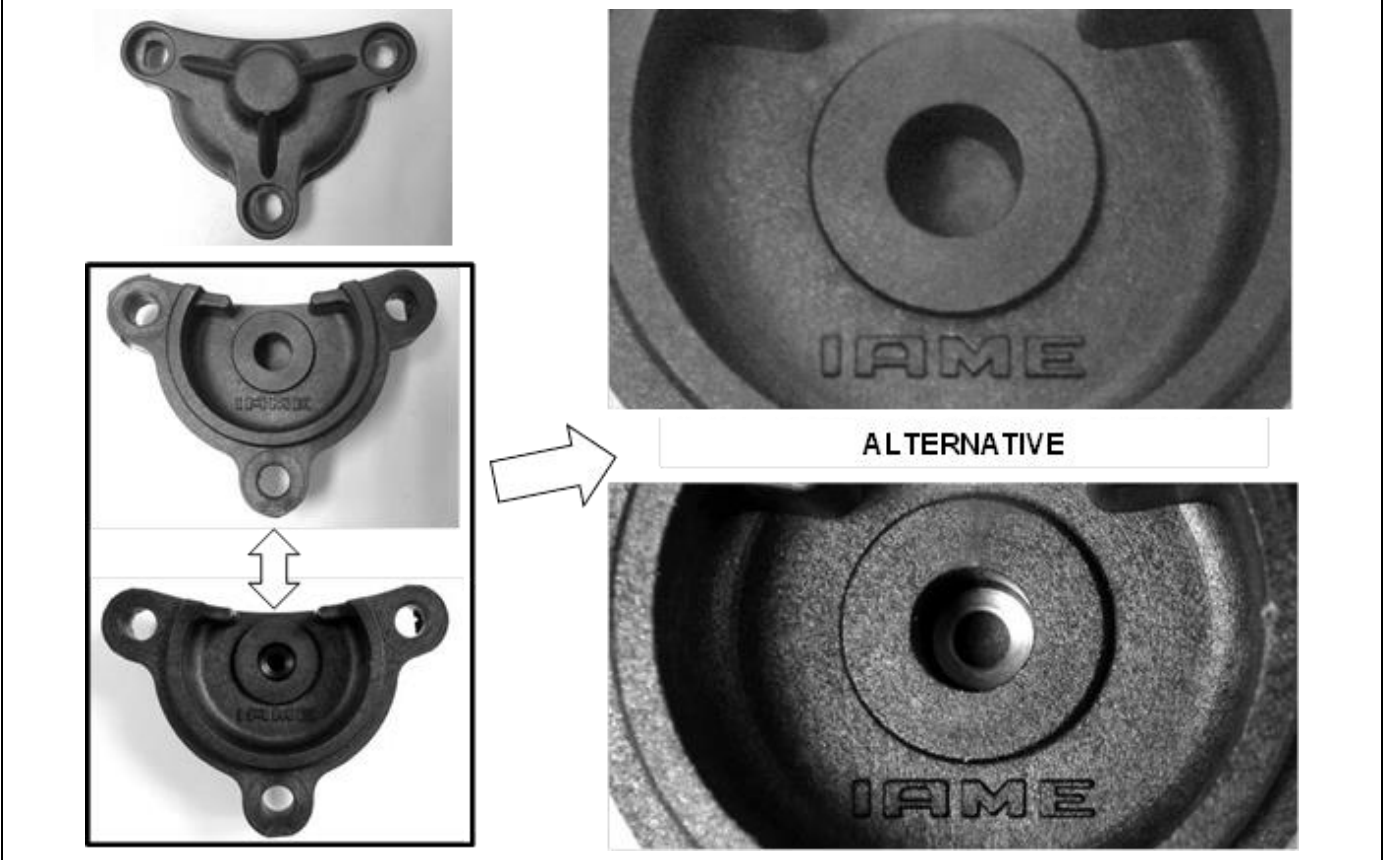
no longer relevant
see apendices



14.17 CLUTCH COVER & H.T. COIL IDENTIFICATION MARKING



14.18 BENDIX COVER IDENTIFICATION MARKING




14.19 EXHAUST END CAN IDENTIFICATION MARKING



END

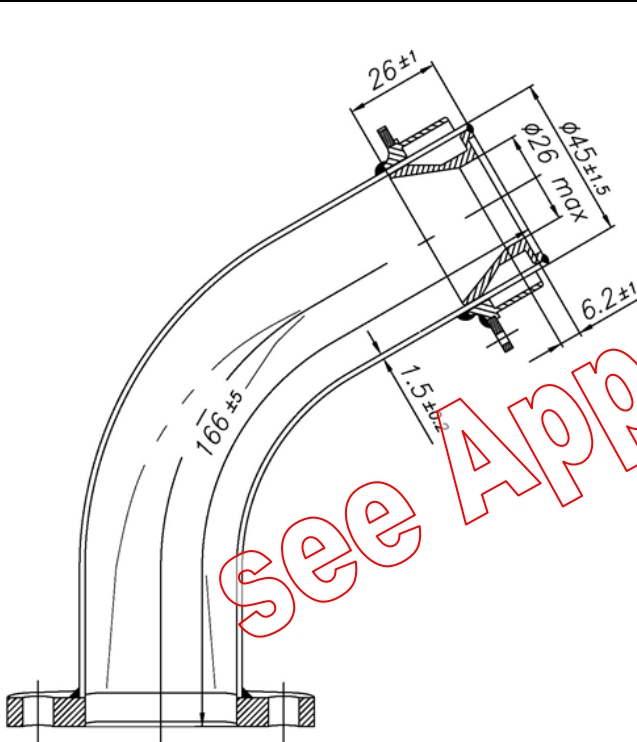

Appendix 1
HOMOLOGATION OF KART ENGINE – SUPPLEMENT JUNIOR

Category	IAME X30 JUNIOR
Manufacturer	IAME
Model	X30 125cc RL TaG - UK
Valid From	01 January 2014
Number of pages	2

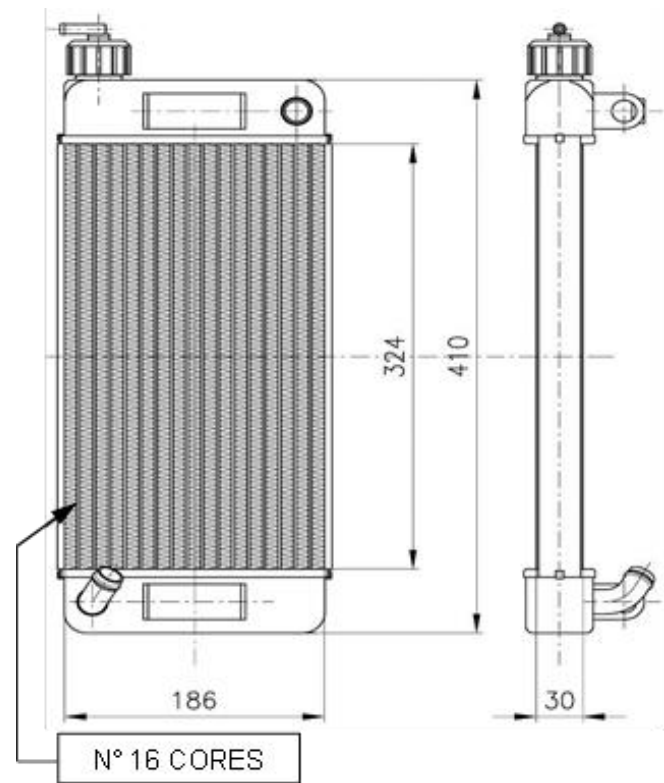
SIGNATURE AND STAMP OF THE MSA	
	Date: 18 December 2013 Signed by: Joe Hickerton Position: MSA Technical Administrator

TECHNICAL INFORMATION

All parts of the preceding **IAME X30** engine fiche are applicable and remain unchanged with the exception and/or addition of the following points:

13.1 EXHAUST HEADER DIMENSIONS	14.20 EXHAUST HEADER WITH JUNIOR RESTRICTOR ID MARKING
	 <p style="text-align: center;">Note: Silver finish for Junior</p>

15.0 RADIATOR DESCRIPTION



15.1 RADIATOR PHOTOGRAPHS

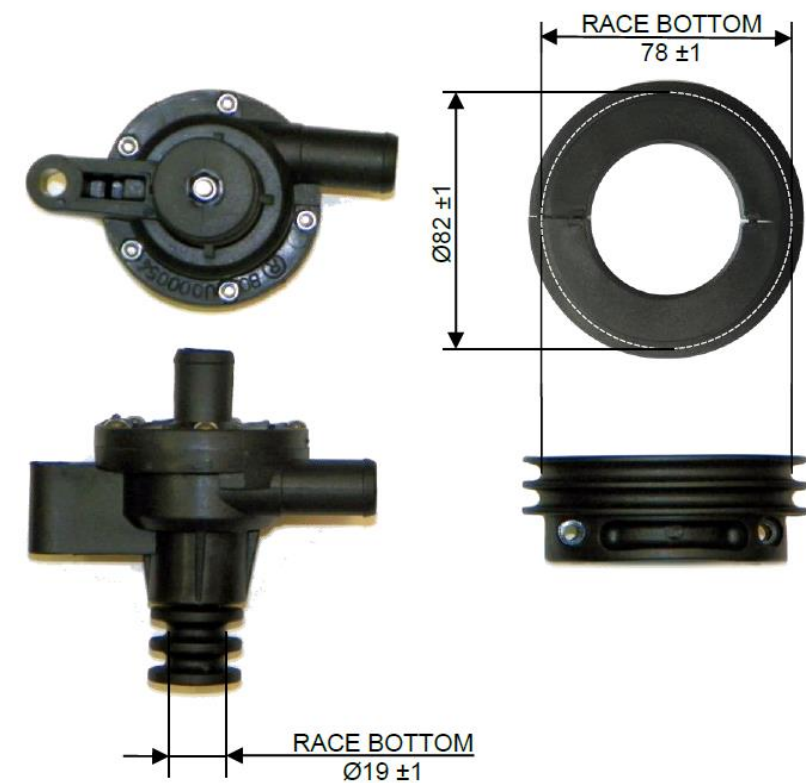
PAINTED AND NOT PAINTED



FRONT

REAR

16.0 WATER PUMP GROUP



16.1 THERMOSTAT ID MARKING



END

Appendix 2

**HOMOLOGATION OF KART ENGINE – SUPPLEMENT
CARBURETTOR**

Category	IAME X30 JUNIOR & SENIOR
Manufacturer	Tillotson Ltd.
Model	HW-27A
Valid From	01 January 2014
Number of pages	5

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Photo of adjusting side



Photo of inlet side

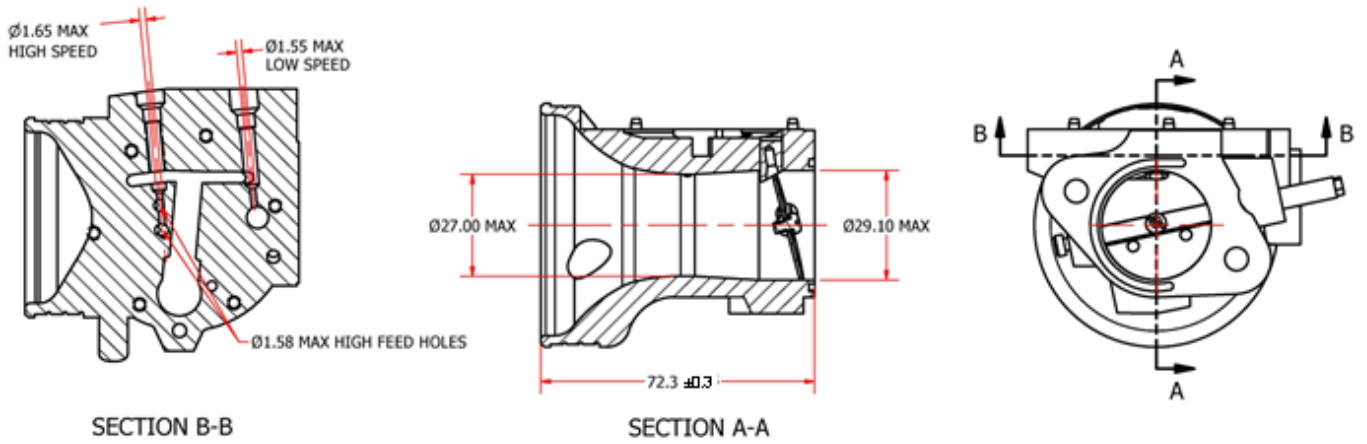
SIGNATURE AND STAMP OF THE MSA

Date: **18 December 2013**Signed by: **Joe Hickerton**Position: **MSA Technical Administrator**

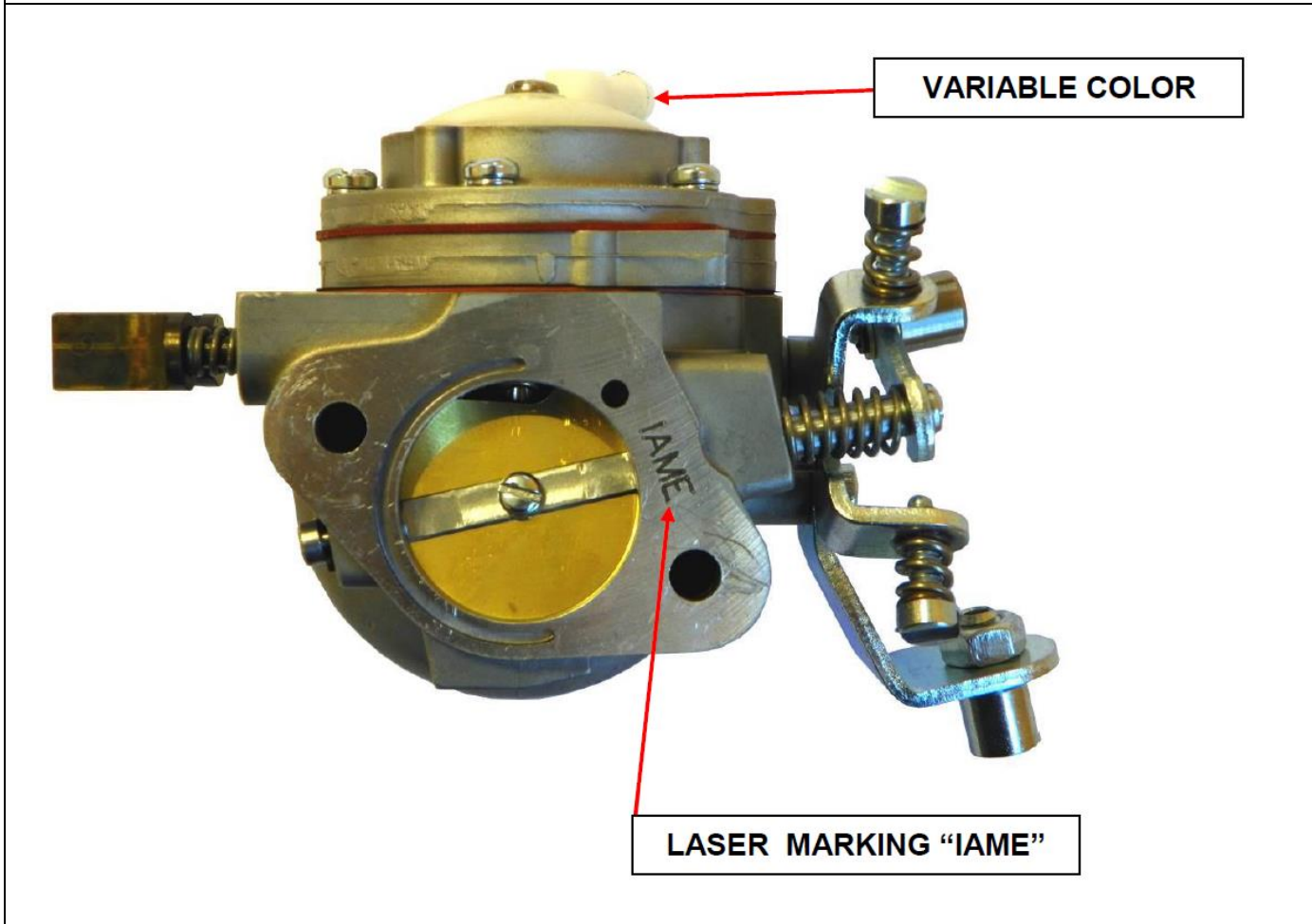
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TECHNICAL INFORMATION

C1.0 SECTION VIEW

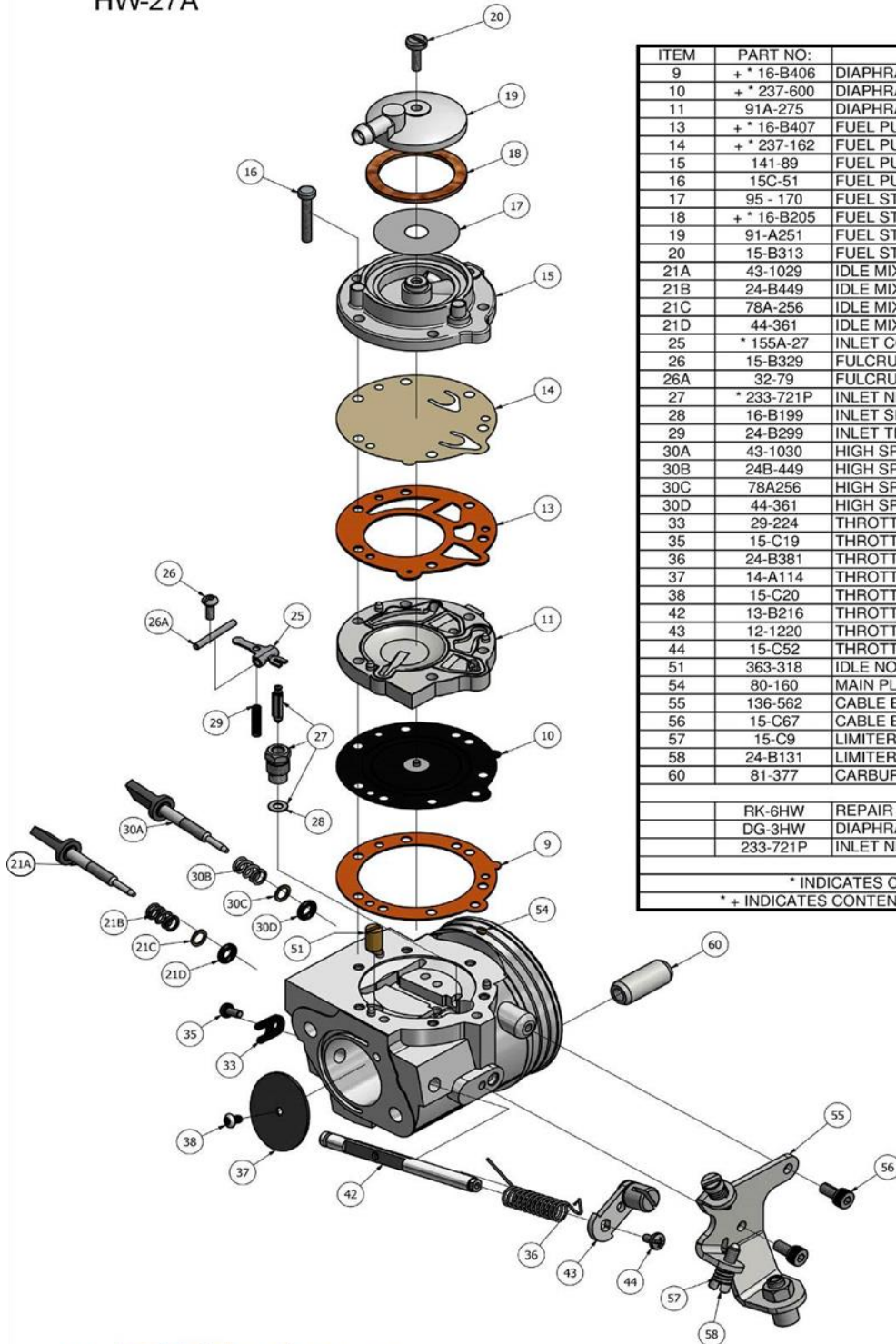


C2.0 CARBURETTOR MARKING



C3.0 SECTION VIEW

HW-27A



ITEM	PART NO:	DESCRIPTION	QTY
9	+ * 16-B406	DIAPHRAGM GASKET (ORANGE)	1
10	+ * 237-600	DIAPHRAGM	1
11	91A-275	DIAPHRAGM COVER	1
13	+ * 16-B407	FUEL PUMP GASKET (ORANGE)	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-B299	INLET TENSION SPRING	1
30A	43-1030	HIGH SPEED MIXTURE SCREW	1
30B	24B-449	HIGH SPEED MIXTURE SCREW SPRING	1
30C	78A256	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-A114	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 (STANDARD)	
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



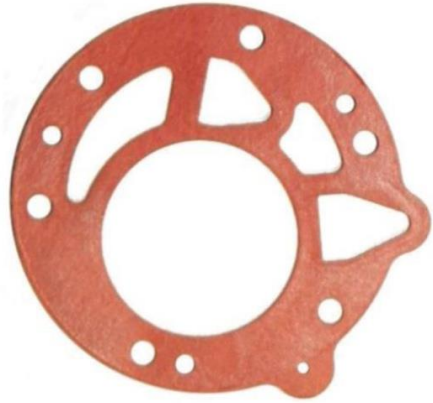
C4.0 CARBURETTOR COMPONENTS

**REF.9 - P. N°16-B406
DIAPHRAGM GASKET (ORANGE COLOR)**



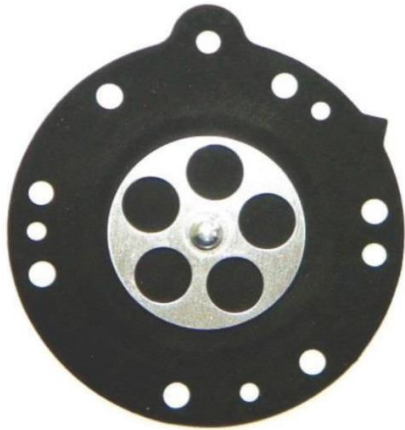
Thickness = 0.5 ± 0.1 mm

**REF.13 - P. N° 16-B407
PUMP DIAPHRAGM GASKET (ORANGE COLOR)**



Thickness = 0.8 ± 0.1 mm

**REF.10 - 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.11 - P. N° 91-A275
DIAPHRAGM COVER**



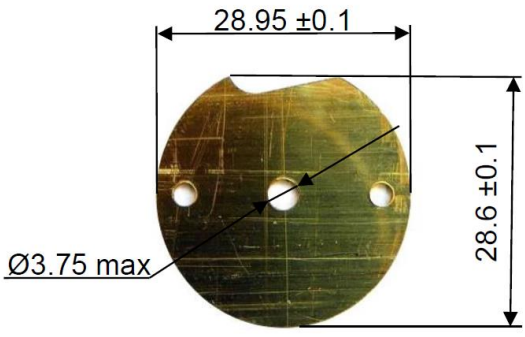
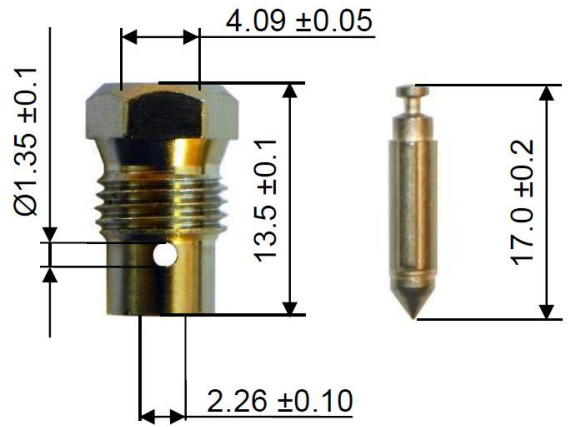
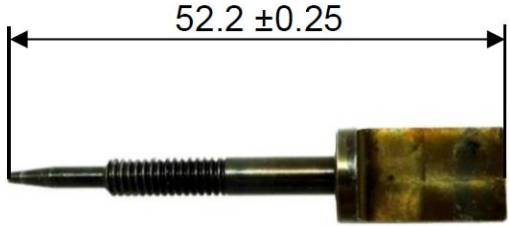

Thickness = 6.75 ± 0.15 mm

**REF.15 - P. N° 141-89
PUMP COVER**



Thickness = 12.5 ± 0.15 mm

C4.0 CARBURETTOR COMPONENTS (continued)

<p>REF.37 - P. N° 14-A114 THROTTLE SHUTTER</p>  <p>Thickness = 0.81 ± 0.1 mm</p>	<p>REF.27 - P. N° 233-721P SEAT + NEEDLE</p> 
<p>REF.30A - P. N° 43-1030 NEEDLE HIGH SPEED</p> 	<p>REF.21A - P. N° 43-1029 NEEDLE LOW SPEED</p> 

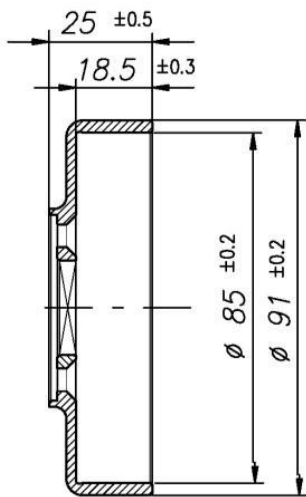
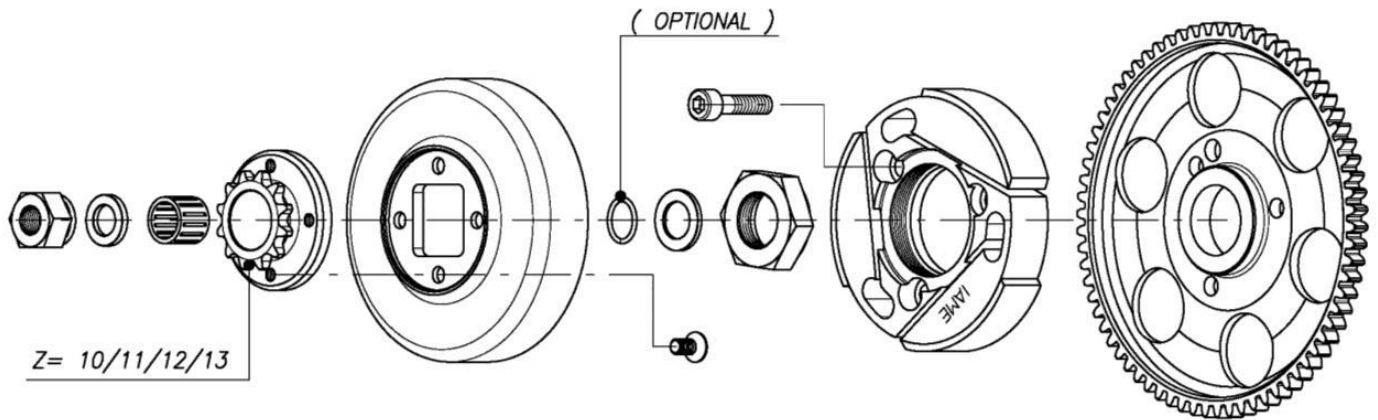
END

Appendix 3
HOMOLOGATION OF KART ENGINE – VARIANT

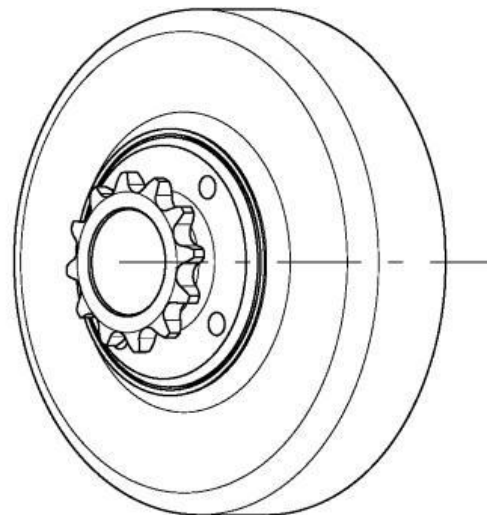
Category	IAME X30 JUNIOR & SENIOR
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2015
Number of pages	2

ALTERNATIVE SOLID CLUTCH DRUM

8.0 CLUTCH




Min. weight 225 g



Min. weight 300 g



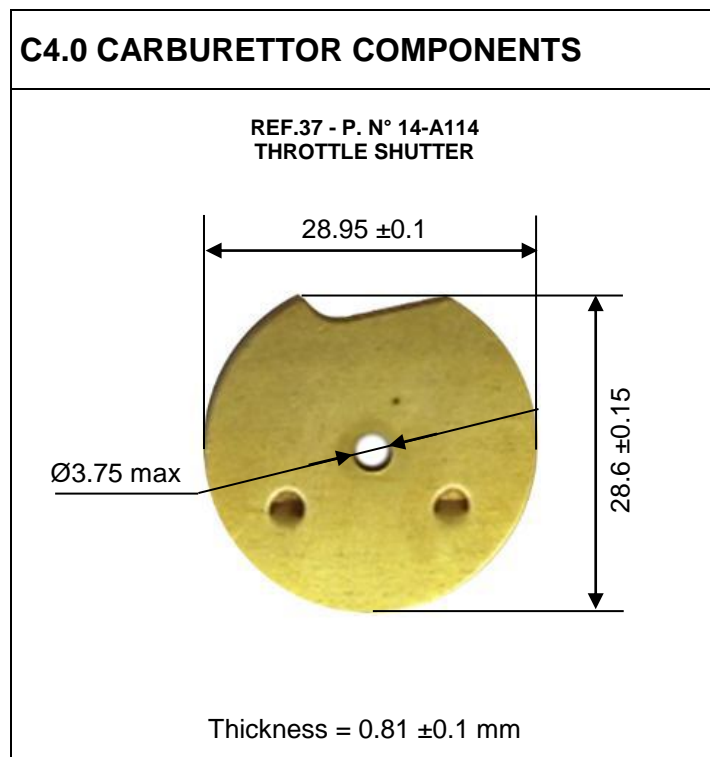
END

SIGNATURE AND STAMP OF THE MSA	
	Date: 09 October 2014 Signed by: Joe Hickerton Position: MSA Technical Administrator

Appendix 4 HOMOLOGATION OF KART ENGINE – VARIANT CARBURETTOR


Category	IAME X30 JUNIOR & SENIOR
Manufacturer	Tillotson Ltd
Model	HW-27A
Valid From	01 January 2015
Number of pages	1

ALTERNATIVE THROTTLE SHUTTER



END

SIGNATURE AND STAMP OF THE MSA

	<p>Date: 14 October 2014</p> <p>Signed by: Joe Hickerton</p> <p>Position: MSA Technical Administrator</p>
---	--

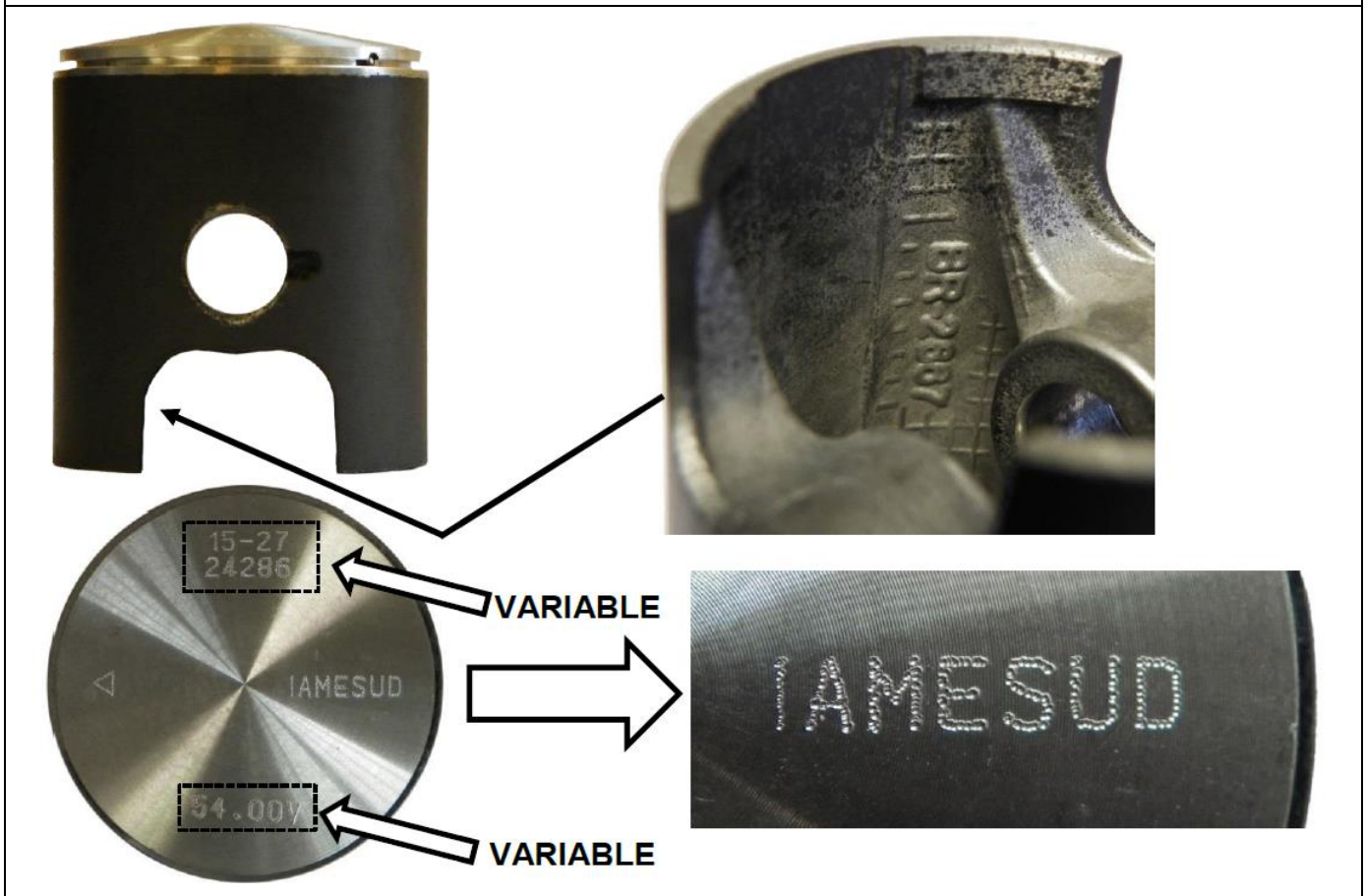
Appendix 5

HOMOLOGATION OF KART ENGINE – VARIANT

<i>Category</i>	IAME X30 JUNIOR & SENIOR
<i>Manufacturer</i>	IAME
<i>Model</i>	X30 125cc RL TAG – UK
<i>Valid From</i>	01 January 2016
<i>Number of pages</i>	1

ALTERNATIVE PISTON MARKINGS

14.3 PISTON IDENTIFICATION MARKING



END

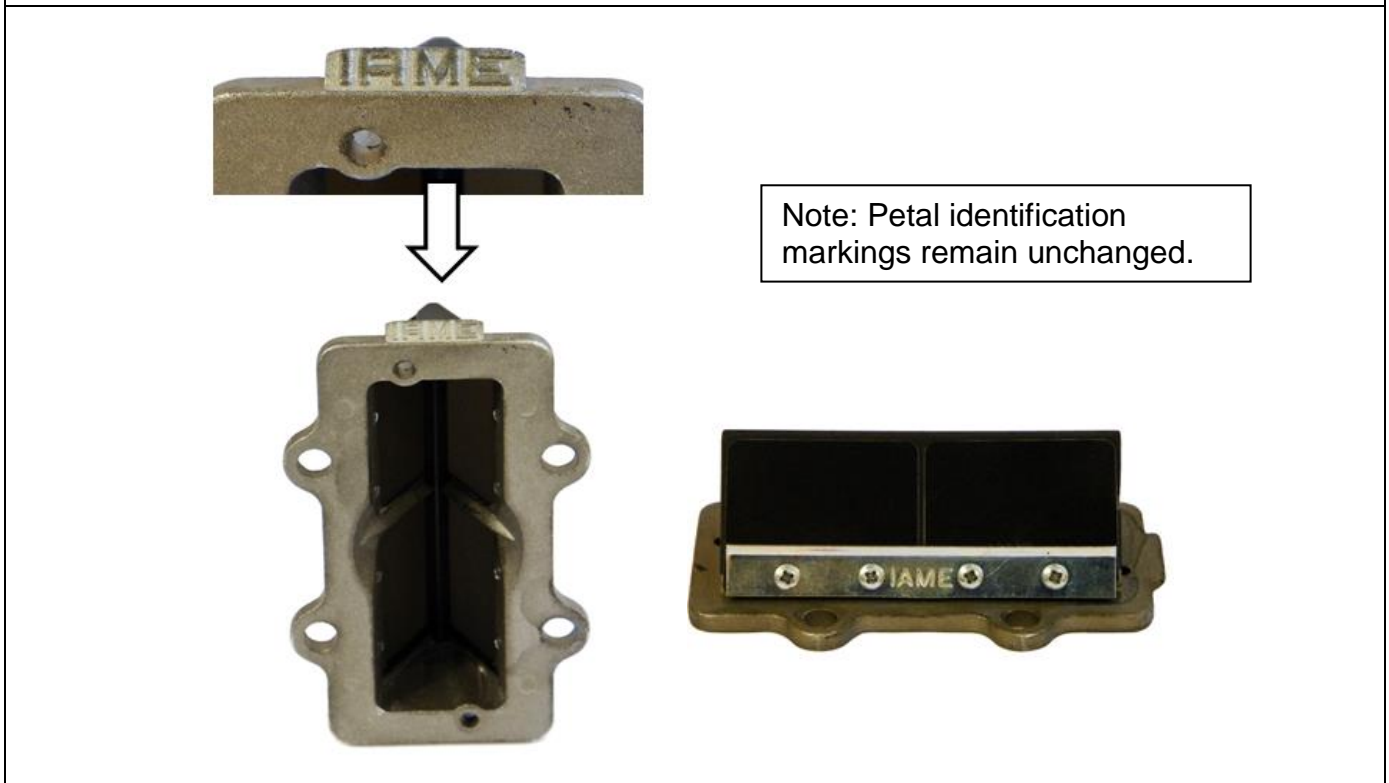
SIGNATURE AND STAMP OF THE MSA	
	Date: 24 September 2015
	Signed by: Joe Hickerton
	Position: MSA Technical Administrator

Appendix 6
HOMOLOGATION OF KART ENGINE – VARIANT

Category	IAME X30 JUNIOR & SENIOR
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2016
Number of pages	1

ALTERNATIVE REED VALVE MARKINGS

14.13 REED GROUP & PETAL IDENTIFICATION MARKING



END

SIGNATURE AND STAMP OF THE MSA

	Date: 24 September 2015
	Signed by: Joe Hickerton
	Position: MSA Technical Administrator

Appendix 7

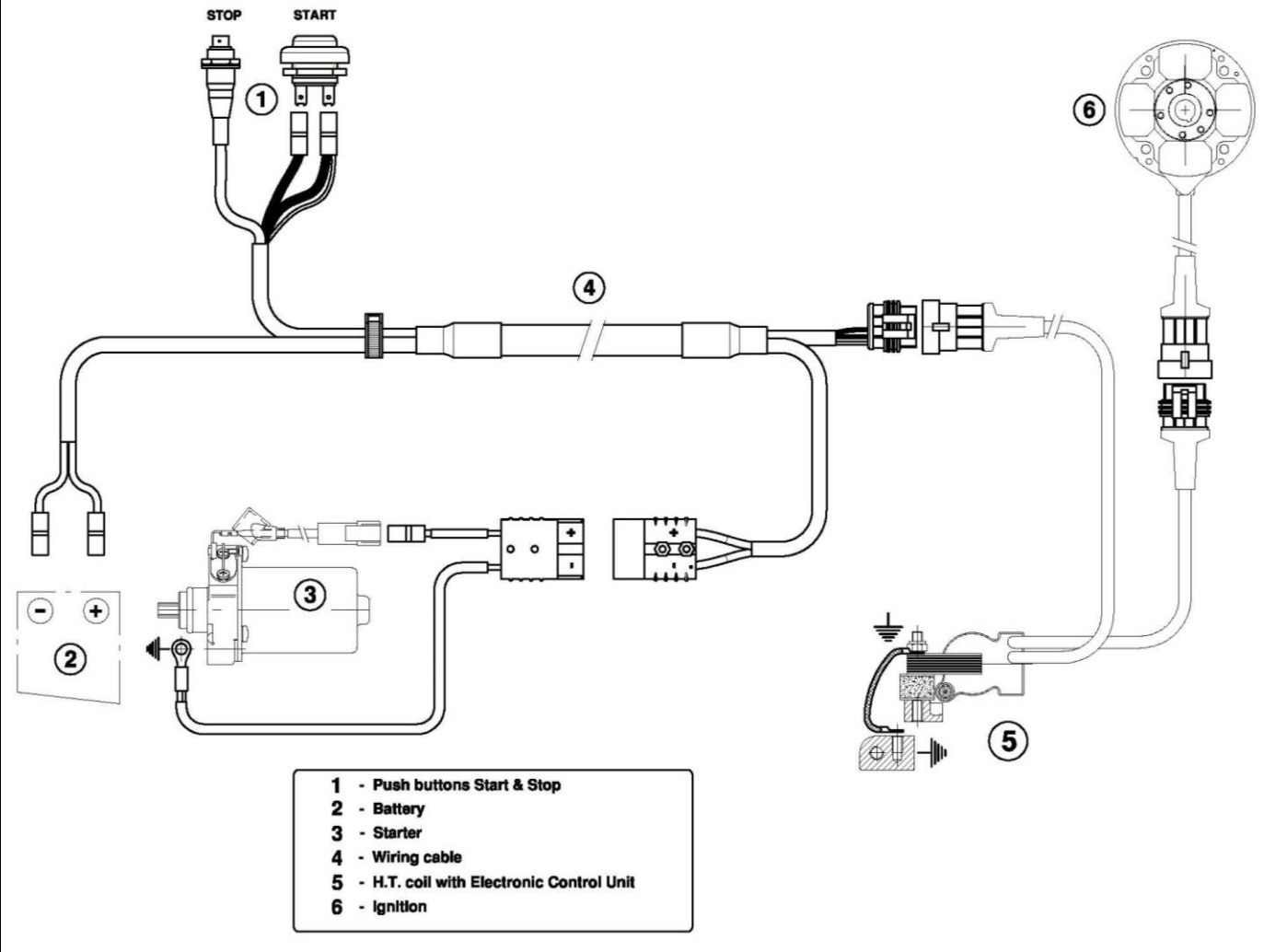
HOMOLOGATION OF KART ENGINE – VARIANT

Category	IAME X30 JUNIOR & SENIOR
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2016
Number of pages	2

ALTERNATIVE IGNITION & WIRING LOOM

9.0 WIRING DIAGRAM

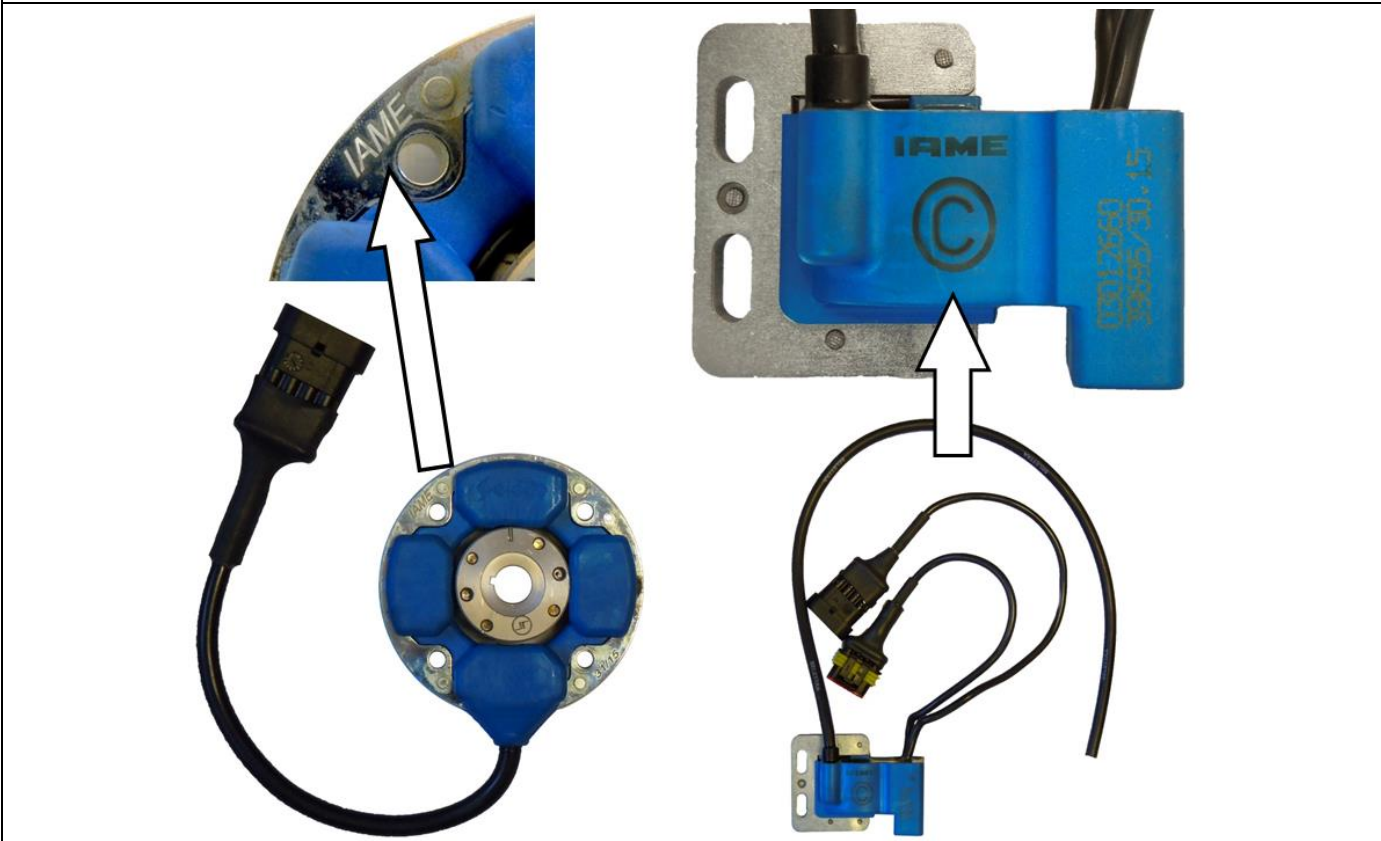
SELETTRA ALTERNATIVE DIGITAL "S" IGNITION



9.1 PHOTO OF COMPLETE WIRING LOOM




9.2 PHOTO OF IGNITION WITH MARKING



END

SIGNATURE AND STAMP OF THE MSA


MSA

Date: **24 September 2015**

Signed by: **Joe Hickerton**

Position: **MSA Technical Administrator**

Appendix 8

HOMOLOGATION OF KART ENGINE – VARIANT

<i>Category</i>	IAME X30 JUNIOR & SENIOR
<i>Manufacturer</i>	IAME
<i>Model</i>	X30 125cc RL TAG – UK
<i>Valid From</i>	01 January 2016
<i>Number of pages</i>	1

ALTERNATIVE PUSH BUTTONS – START & STOP**9.1 PUSH BUTTONS – START & STOP**

Note: To replace the key switch on the original wiring loom.



END

SIGNATURE AND STAMP OF THE MSA

Date: **24 September 2015**

Signed by: **Joe Hickerton**

Position: **MSA Technical Administrator**

Appendix 9

HOMOLOGATION OF KART ENGINE – VARIANT

<i>Category</i>	IAME X30 JUNIOR & SENIOR
<i>Manufacturer</i>	IAME
<i>Model</i>	X30 125cc RL TAG – UK
<i>Valid From</i>	01 January 2016
<i>Number of pages</i>	1

ALTERNATIVE INLET CONVEYOR

7.0 INLET CONVEYOR DIMENSIONS & IDENTIFICATION MARKING

Note: Opening diameter remains unchanged (29.3mm max.)

END

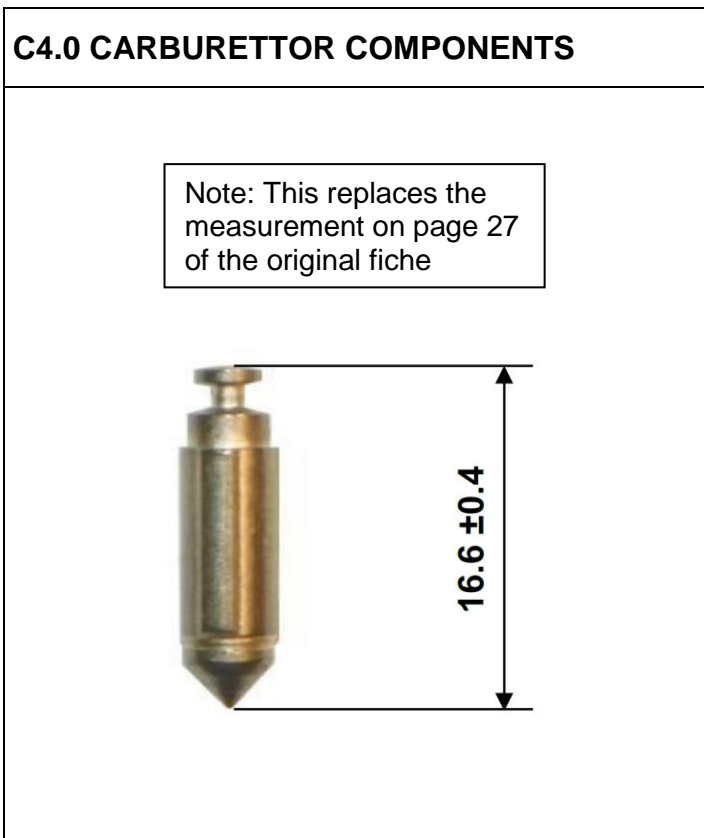
SIGNATURE AND STAMP OF THE MSA	
	Date: 24 September 2015
	Signed by: Joe Hickerton
	Position: MSA Technical Administrator

Appendix 10

HOMOLOGATION OF KART ENGINE – AMENDMENT

Category	IAME X30 JUNIOR & SENIOR
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2016
Number of pages	1

FUEL NEEDLE MEASUREMENT



END

SIGNATURE AND STAMP OF THE MSA


	Date: 24 September 2015
	Signed by: Joe Hickerton
	Position: MSA Technical Administrator

Appendix 11

HOMOLOGATION OF KART ENGINE – SUPPLEMENT
MINI X

Category	IAME X30 MINI X
Manufacturer	IAME
Model	X30 125cc RL TaG - UK
Valid From	01 January 2017
Number of pages	1

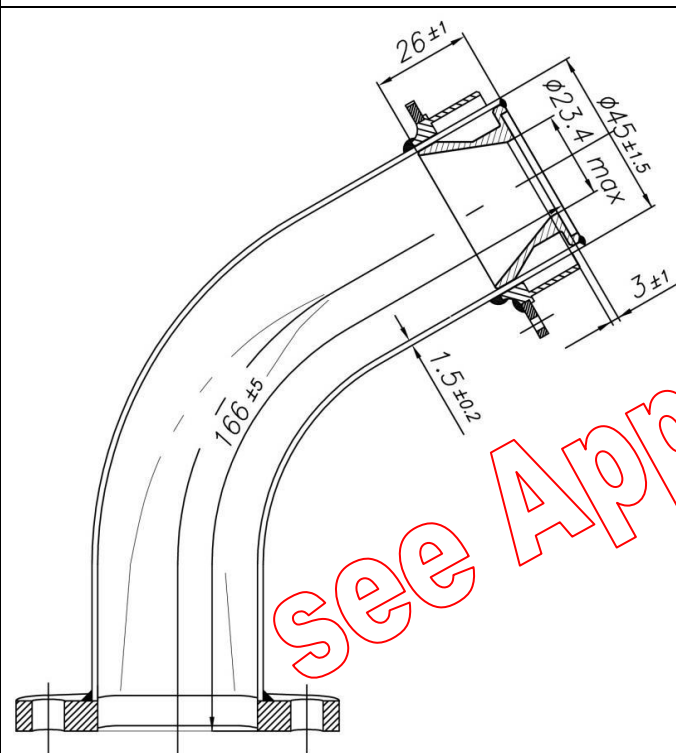
SIGNATURE AND STAMP OF THE MSA

	Date: 01 January 2017
	Signed by: Joe Hickerton
	Position: MSA Technical Manager

TECHNICAL INFORMATION

All parts of the preceding IAME X30 engine fiche and IAME X30 Junior supplement (appendix 1) are applicable and remain unchanged with the exception and/or addition of the following points:

13.1 EXHAUST HEADER DIMENSIONS

14.20 EXHAUST HEADER WITH MINI X
RESTRICTOR ID MARKING

Note: Silver finish for Mini X

END

Appendix 12

**HOMOLOGATION OF KART ENGINE – SUPPLEMENT
MINI X CARBURETTOR**

Category	IAME X30 MINI X
Manufacturer	Tillotson Ltd.
Model	HW-34A
Valid From	01 January 2017
Number of pages	5

This Homologation Form reproduces descriptions, illustrations and dimensions of the engine at the moment of the MSA Homologation. This document may be supplemented by official amendment. This document must be read in conjunction with the appropriate Class Regulations.



Photo of adjusting side



Photo of inlet side

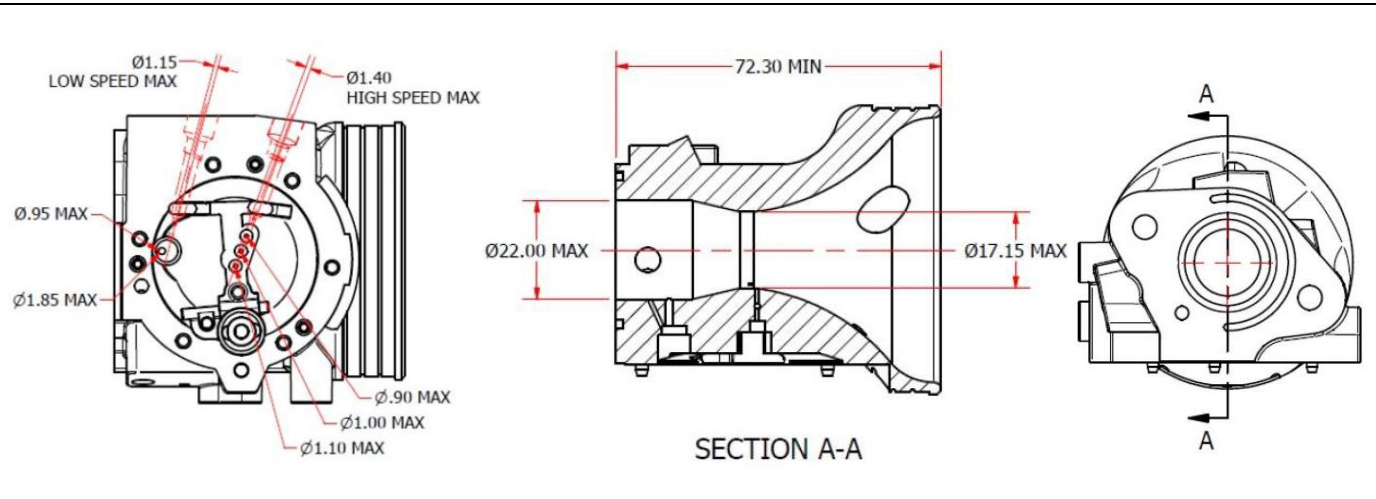
SIGNATURE AND STAMP OF THE MSA

Date: **01 January 2017**Signed by: **Joe Hickerton**Position: **MSA Technical Manager**

Any reproduction must be authorised by the MSA

TECHNICAL INFORMATION

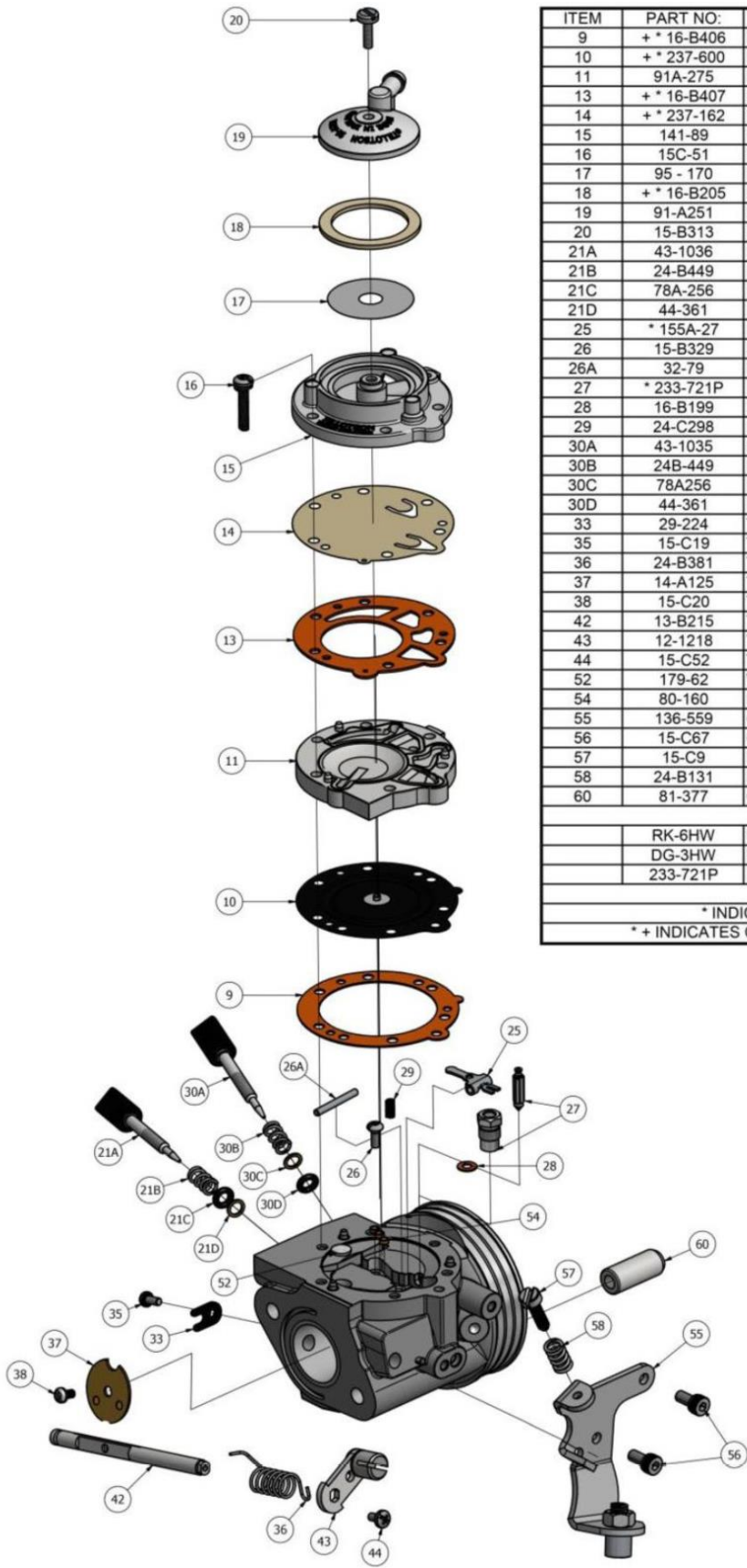
C1.0 SECTION VIEW



C2.0 CARBURETTOR MARKING



C3.0 SECTION VIEW



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	43-1036	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-C298	INLET TENSION SPRING	1
30A	43-1035	HIGH SPEED MIXTURE SCREW	1
30B	24B-449	HIGH SPEED MIXTURE SCREW SPRING	1
30C	78A256	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-A125	THROTTLE SHUTTER	1
38	15-C20	THROTTLE SHUTTER SCREW	1
42	13-B215	THROTTLE SHAFT	1
43	12-1218	THROTTLE LEVER ASSEMBLY	1
44	15-C52	THROTTLE LEVER RETAINING SCREW	1
52	179-62	WELCH PLUG	1
54	80-160	MAIN PLUG	3
55	136-559	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 (STANDARD)
	233-721P	INLET NEEDLE & SEAT SET
* INDICATES CONTENTS OF REPAIR KIT		
* + INDICATES CONTENTS OF DIAPHRAGM & GASKET SET		

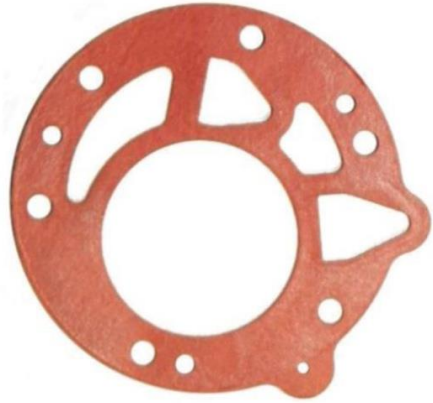
C4.0 CARBURETTOR COMPONENTS

**REF.9 - P. N°16-B406
DIAPHRAGM GASKET (ORANGE COLOR)**



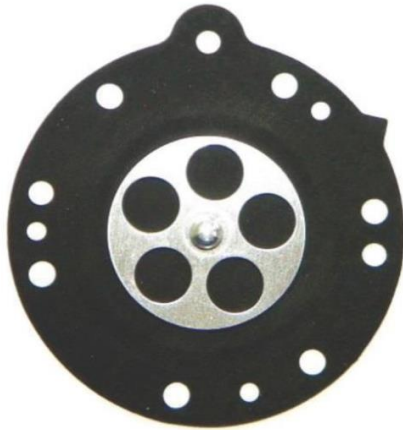
Thickness = 0.5 ± 0.1 mm

**REF.13 - P. N° 16-B407
PUMP DIAPHRAGM GASKET (ORANGE COLOR)**



Thickness = 0.8 ± 0.1 mm

**REF.10 - 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.11 - P. N° 91-A275
DIAPHRAGM COVER**



Thickness = 6.75 ± 0.15 mm

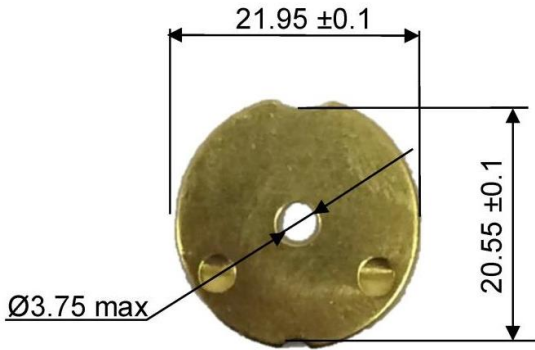
**REF.15 - P. N° 141-89
PUMP COVER**



Thickness = 12.5 ± 0.15 mm

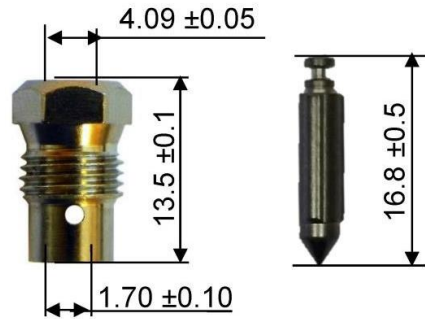
C4.0 CARBURETTOR COMPONENTS (continued)

REF.37 - P. N° 14-A125
THROTTLE SHUTTER



Thickness = 0.81 ±0.1 mm

REF.27 - P. N° 233-721P
SEAT + NEEDLE



REF.21A - P. N° 43-1036
NEEDLE LOW SPEED



REF.30A - P. N° 43-1035
NEEDLE HIGH SPEED



END

Appendix 13

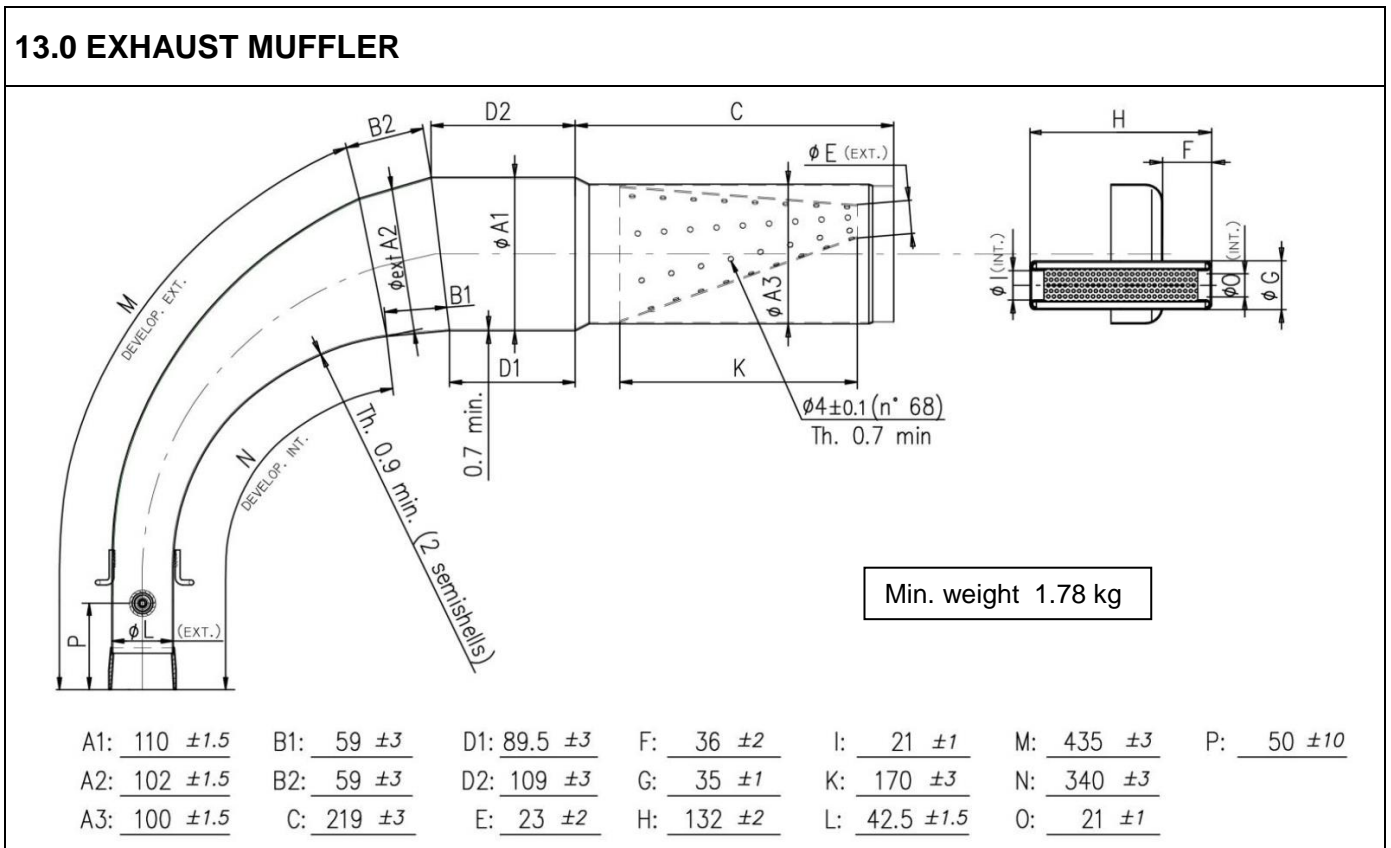
HOMOLOGATION OF KART ENGINE – AMENDMENT

This Appendix fully replaces relevant sections of the main fiche for SENIOR only

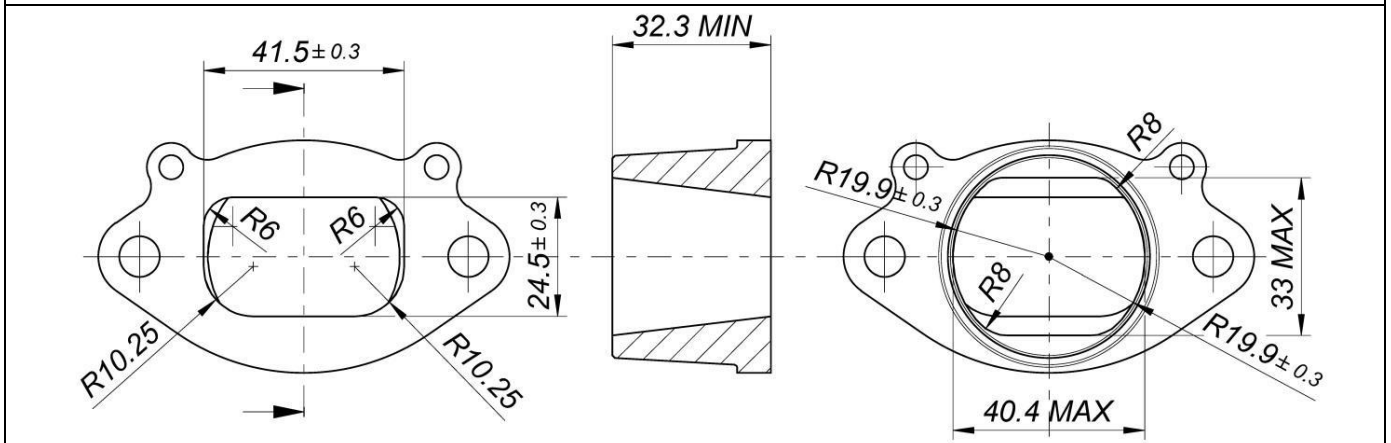
Category	IAME X30 SENIOR
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2018
Number of pages	2

MANDATORY EXHAUST – SENIOR

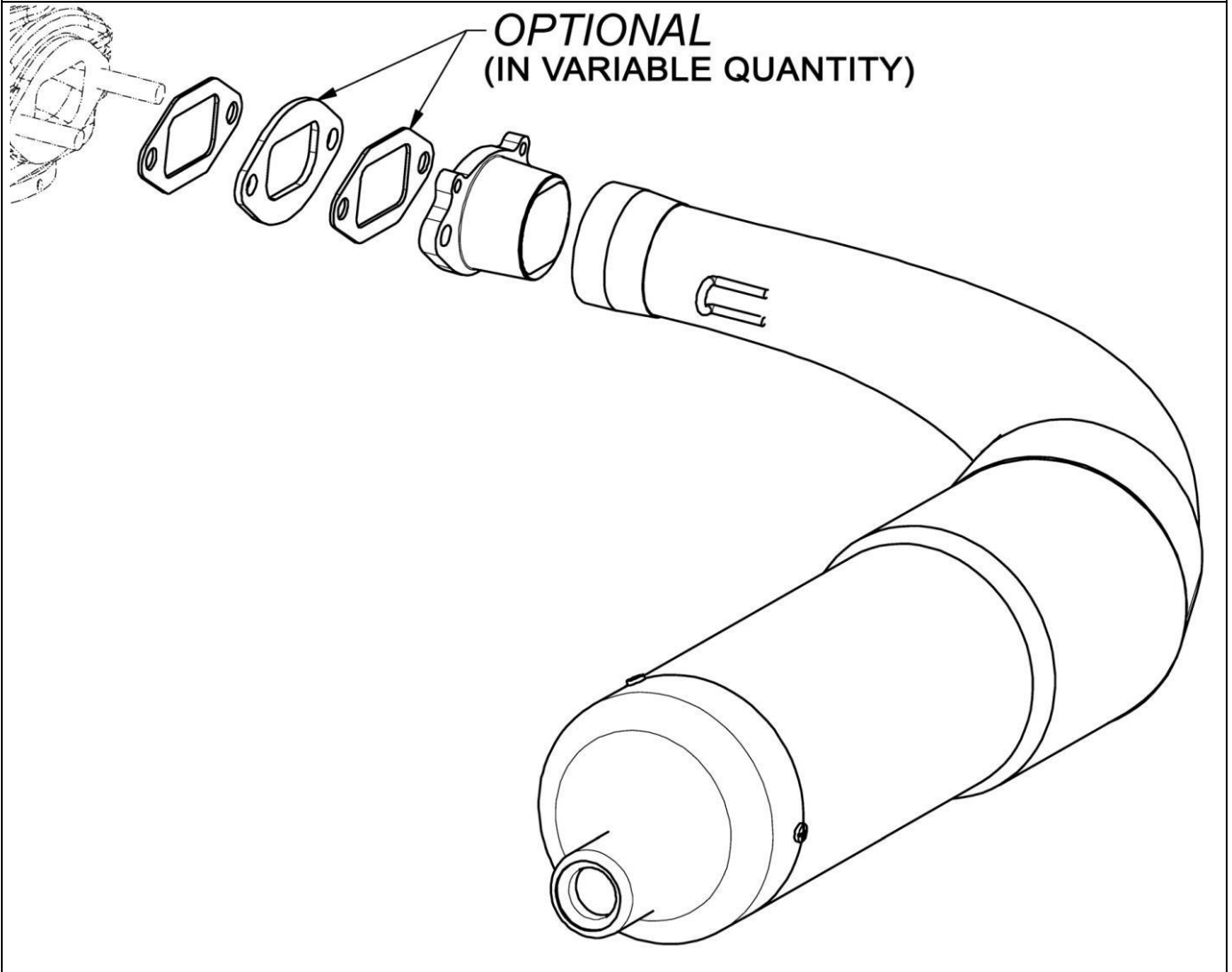
13.0 EXHAUST MUFFLER



13.1 EXHAUST HEADER



13.2 EXHAUST INSTALLATION



END

SIGNATURE AND STAMP OF THE MSA

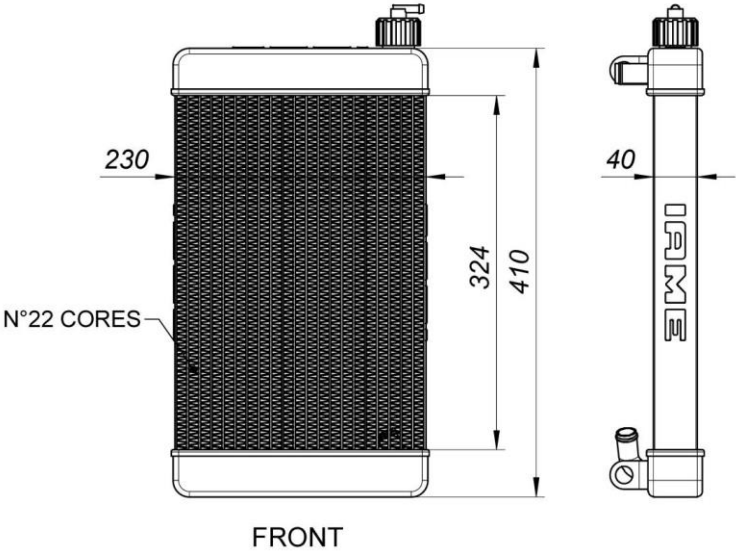

	<p>Date: 01 January 2018</p> <p>Signed by: Joe Hickerton</p> <p>Position: MSA Technical Manager</p>
---	--

Appendix 14

HOMOLOGATION OF KART ENGINE – VARIANT

Category	IAME X30 JUNIOR & MINI X
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2018
Number of pages	1

ALTERNATIVE LARGE RADIATOR – JUNIOR & MINI X

15.0 RADIATOR DESCRIPTION	15.1 RADIATOR PHOTOGRAPHS
 <p>Technical drawing of the radiator. The front view shows a rectangular radiator with a width of 230 and a height of 410. The core height is 324. The drawing is labeled 'FRONT' and 'N°22 CORES'. A side view shows a height of 40. The brand name 'IAME' is visible on the side view.</p>	 <p>Photograph of the radiator and its mounting hardware. The radiator is shown next to a black T-shaped bracket and a black mounting rod with a hole at the bottom.</p>

END

SIGNATURE AND STAMP OF THE MSA

 <p>Signature and MSA stamp.</p>	<p>Date: 01 January 2018</p> <p>Signed by: Joe Hickerton</p> <p>Position: MSA Technical Manager</p>
---	---

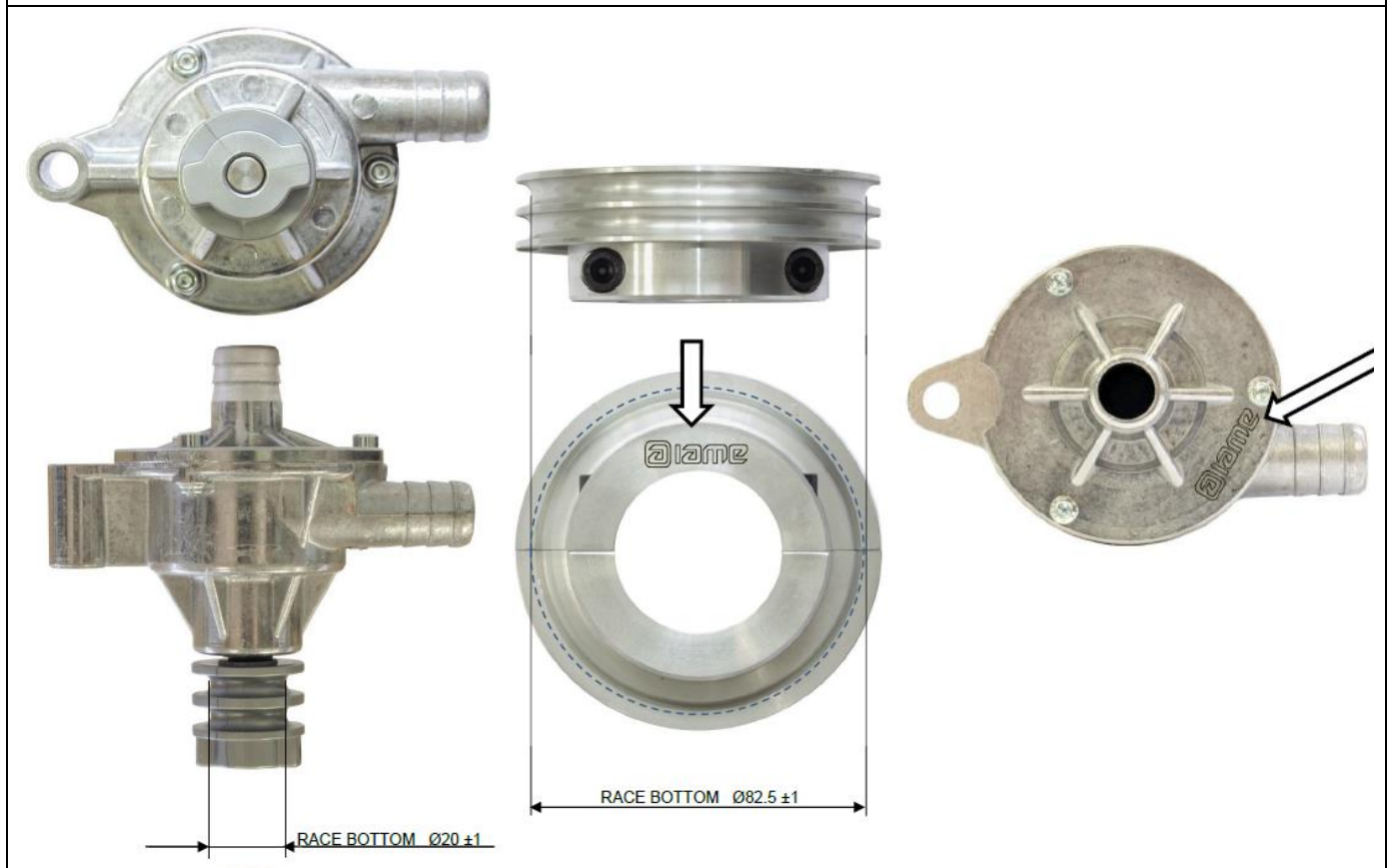
Appendix 15

HOMOLOGATION OF KART ENGINE – VARIANT

Category	IAME X30 JUNIOR & MINI X
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2018
Number of pages	1

ALTERNATIVE WATER PUMP & PULLEY – JUNIOR & MINI X

16.0 WATER PUMP GROUP



END

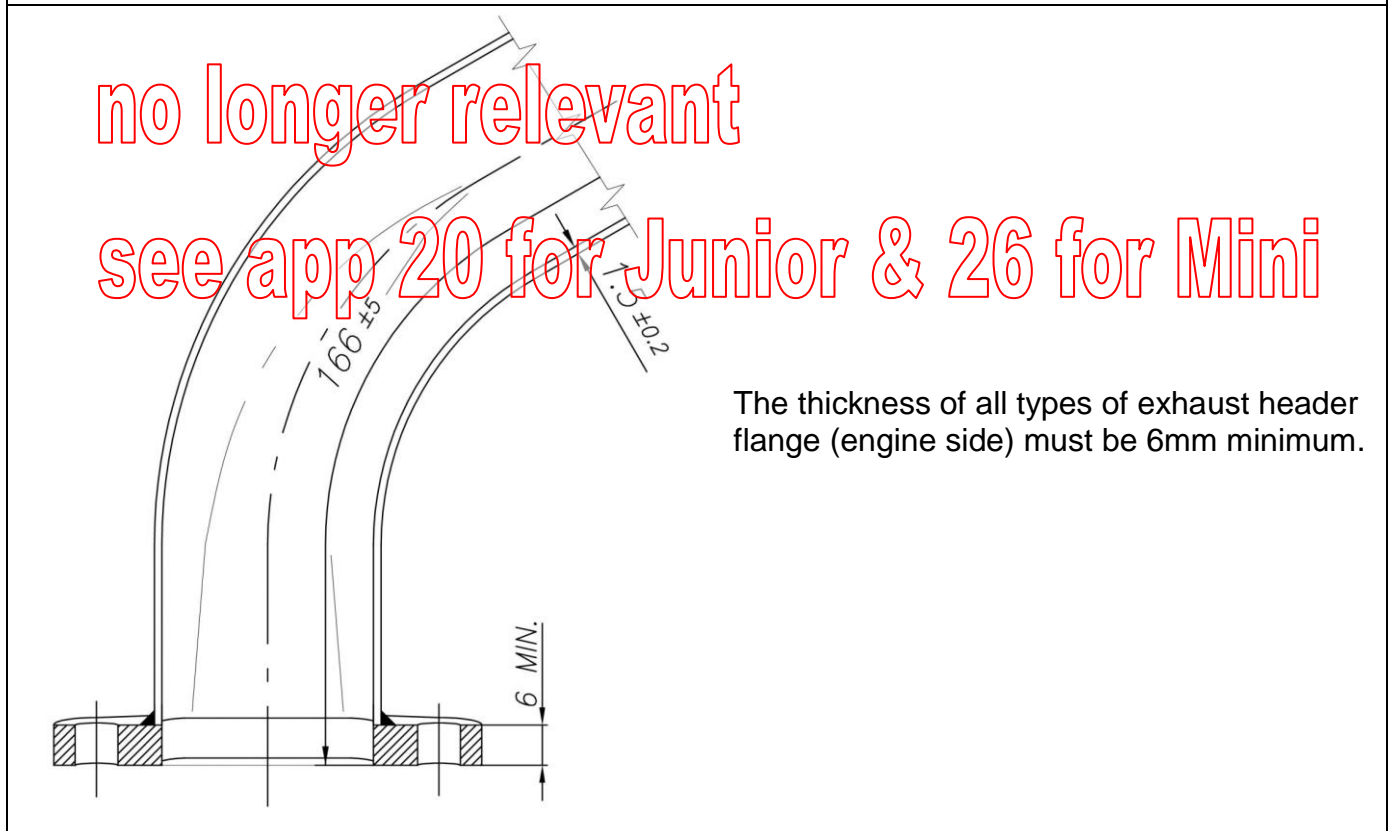
SIGNATURE AND STAMP OF THE MSA	
	Date: 01 January 2018
	Signed by: Joe Hickerton
	Position: MSA Technical Manager

Appendix 16
HOMOLOGATION OF KART ENGINE
ADDITIONAL INFORMATION

Category	IAME X30 JUNIOR & MINI X
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2018
Number of pages	1

EXHAUST HEADER FLANGE THICKNESS – JUNIOR & MINI X

13.1 EXHAUST HEADER DIMENSIONS



END

SIGNATURE AND STAMP OF THE MSA

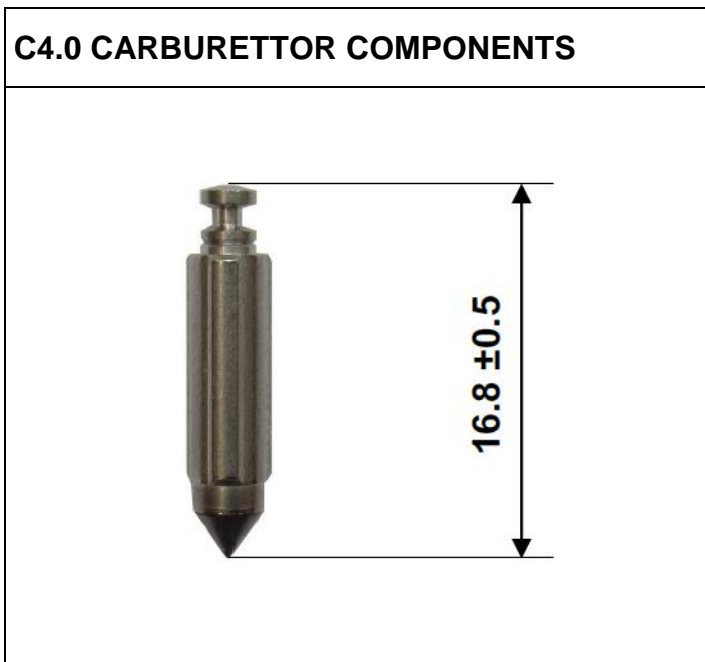
	Date: 01 January 2018
	Signed by: Joe Hickerton
	Position: MSA Technical Manager

Appendix 17

HOMOLOGATION OF KART ENGINE – VARIANT

Category	IAME X30 SENIOR & JUNIOR
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2018
Number of pages	1

ALTERNATIVE FUEL NEEDLE



END

SIGNATURE AND STAMP OF THE MSA

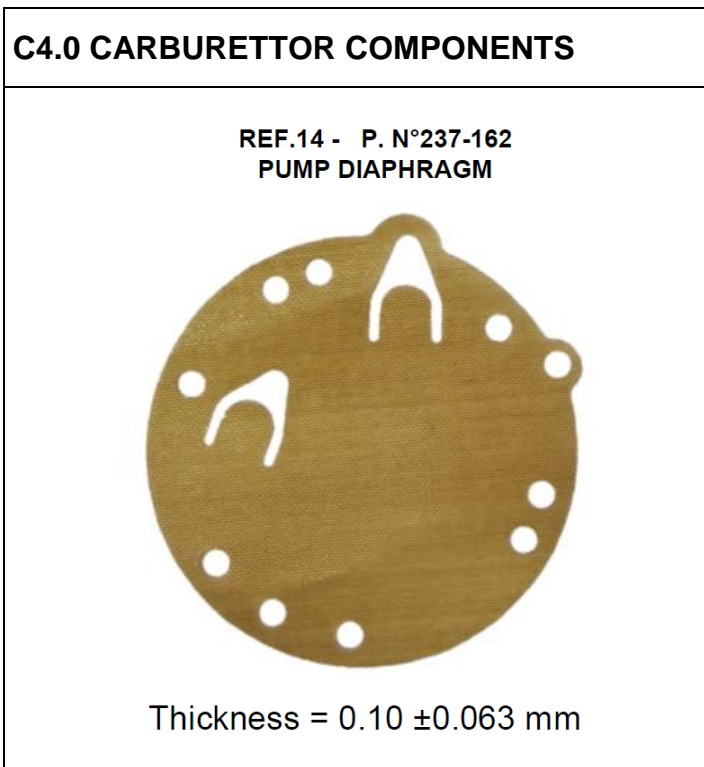
	Date: 01 January 2018
	Signed by: Joe Hickerton
	Position: MSA Technical Manager

Appendix 18


HOMOLOGATION OF KART ENGINE – VARIANT

Category	IAME X30 JUNIOR, SENIOR & MINI X
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2018
Number of pages	1

ALTERNATIVE PUMP DIAPHRAGM



END

SIGNATURE AND STAMP OF THE MSA	
	<p>Date: 01 January 2018</p> <p>Signed by: Joe Hickerton</p> <p>Position: MSA Technical Manager</p>

Appendix 19

HOMOLOGATION OF KART ENGINE – AMENDMENT*This Appendix fully replaces relevant section of Appendix 2*

Category	IAME X30 SENIOR & JUNIOR
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2018
Number of pages	2

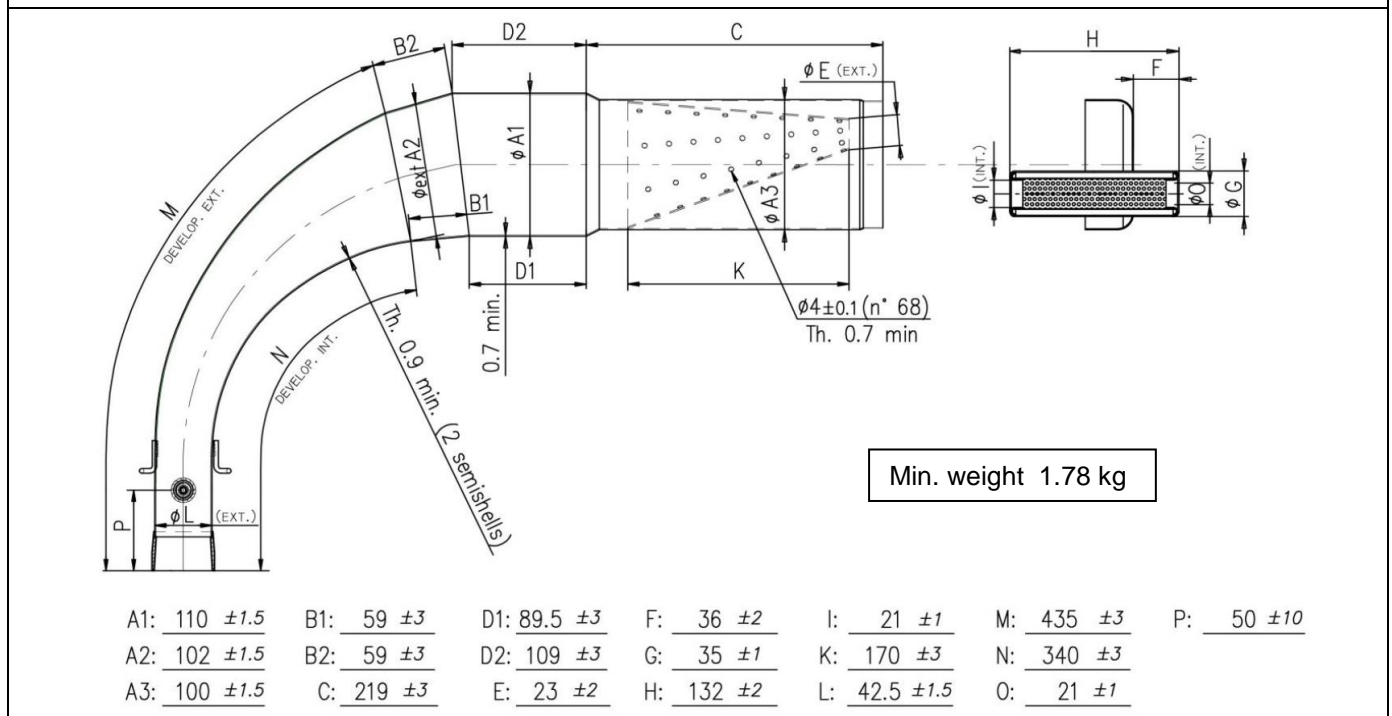
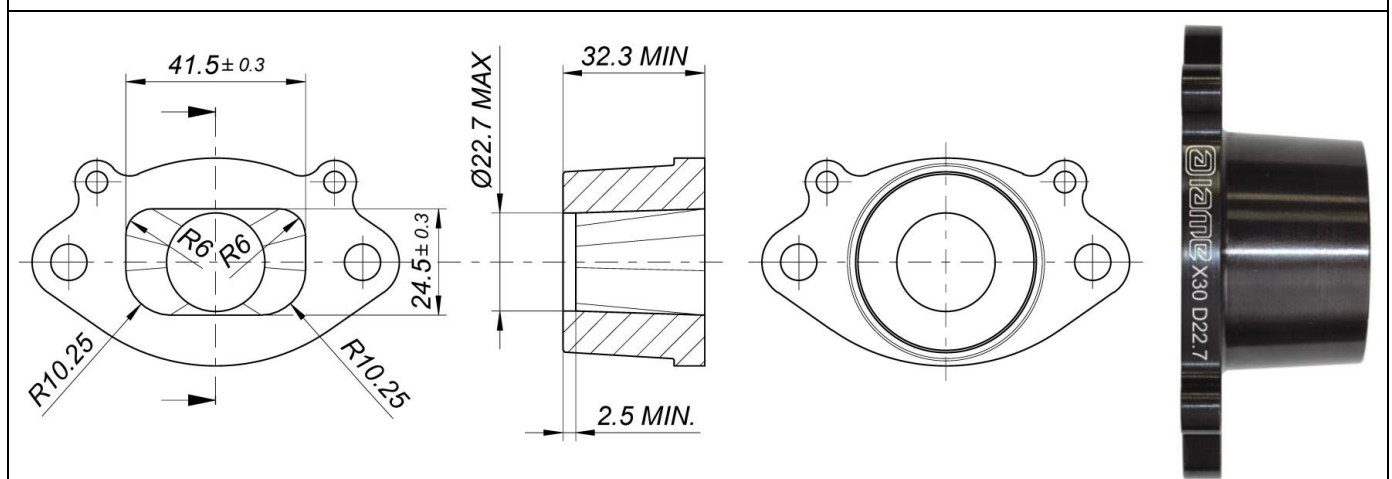
LOW AND HIGH SPEED NEEDLE CORRECTION**C4.0 CARBURETTOR COMPONENTS**REF.21A - P. N° 43-1029
NEEDLE LOW SPEEDREF.30A - P. N° 43-1030
NEEDLE HIGH SPEED**END****SIGNATURE AND STAMP OF THE MSA**

Date: **01 January 2018**Signed by: **Joe Hickerton**Position: **MSA Technical Manager**

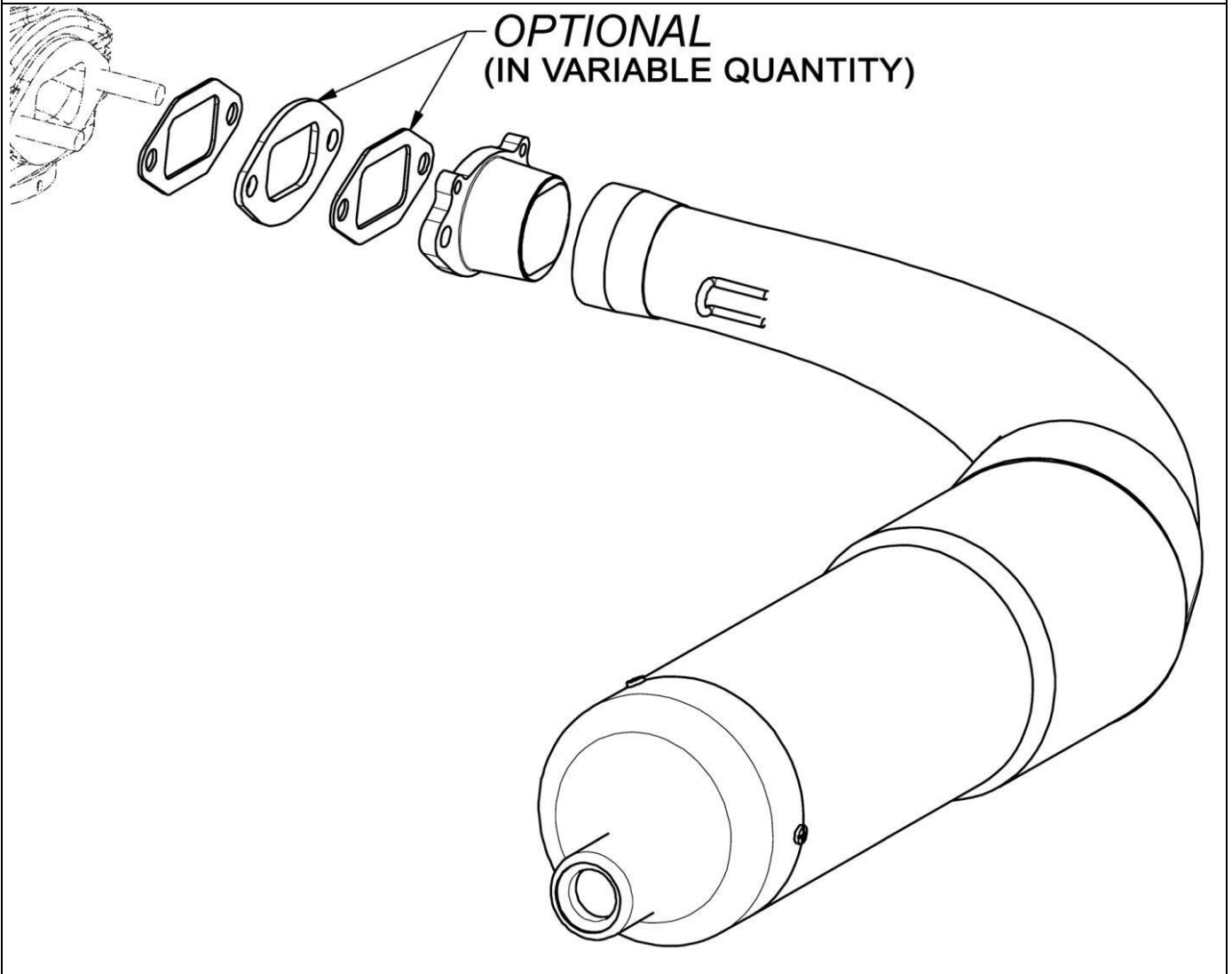
Appendix 20
HOMOLOGATION OF KART ENGINE – AMENDMENT

This Appendix fully replaces relevant sections of the main fiche and appendices 1 and 16 for JUNIOR only

Category	IAME X30 JUNIOR
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2019
Number of pages	2

MANDATORY EXHAUST & RESTRICTOR – JUNIOR
13.0 EXHAUST MUFFLER

13.1 EXHAUST FITTING AND RESTRICTOR


13.2 EXHAUST INSTALLATION



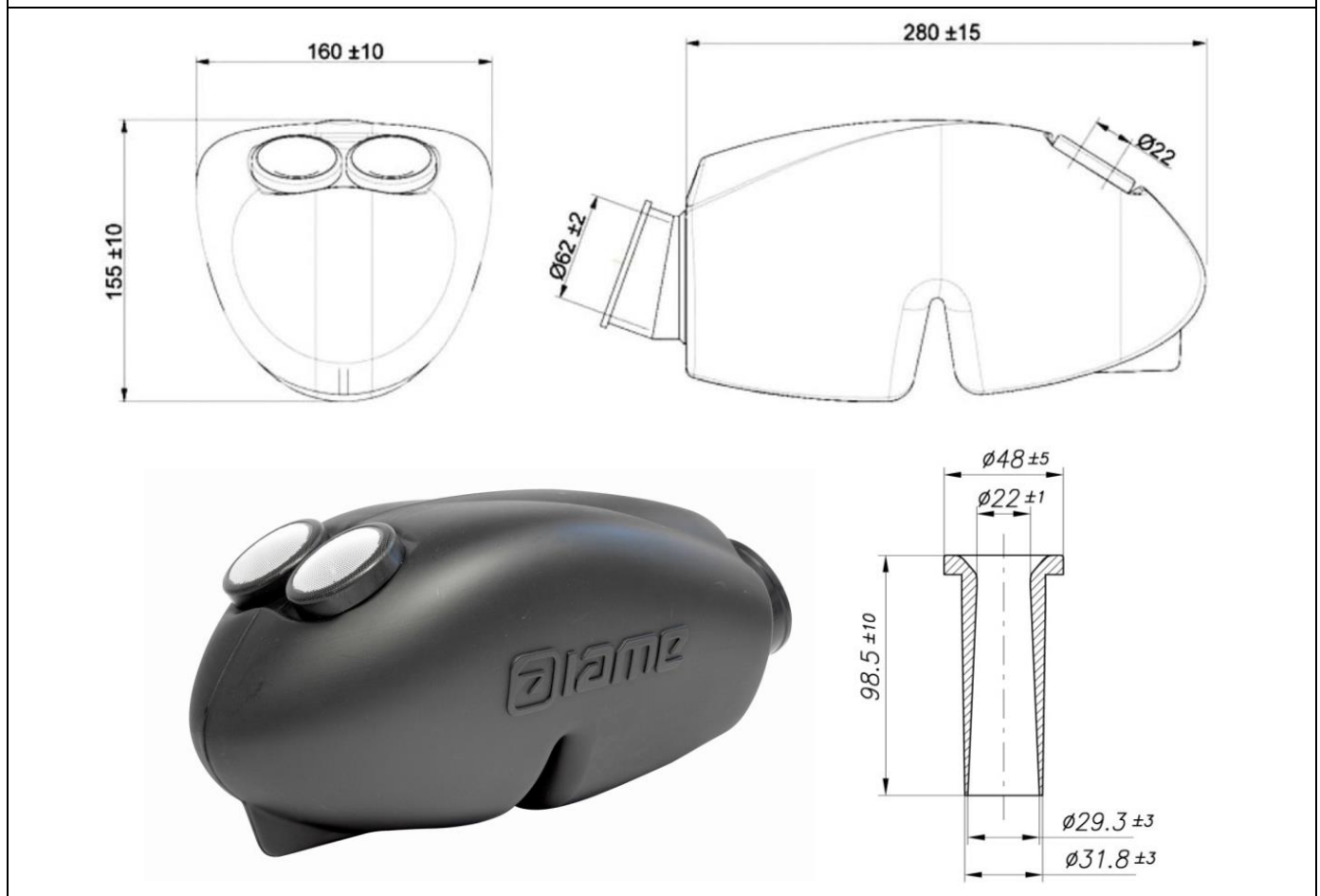
END

SIGNATURE AND STAMP

 	Date: 01 January 2019 Signed by: Joe Hickerton Position: Technical Manager
--	---

Appendix 21
HOMOLOGATION OF KART ENGINE – VARIANT

Category	IAME X30 – ALL CLASSES
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2019
Number of pages	1

ALTERNATIVE INLET SILENCER / AIR BOX
7.1 INLET SILENCER

END
SIGNATURE AND STAMP

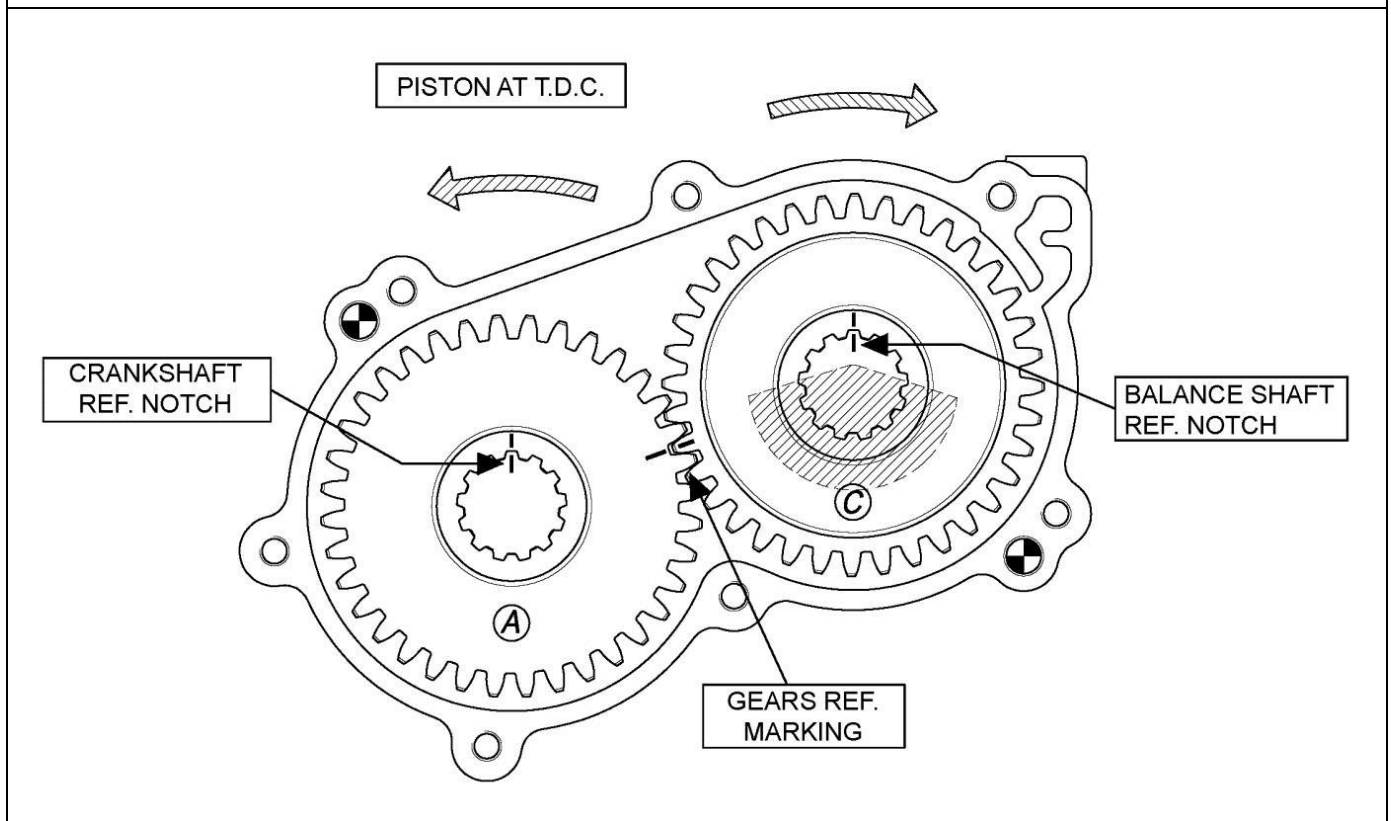
 	Date: 01 January 2019 Signed by: Joe Hickerton Position: Technical Manager
---	---

Appendix 22
HOMOLOGATION OF KART ENGINE
ADDITIONAL INFORMATION

Category	IAME X30 – ALL CLASSES
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2019
Number of pages	1



BALANCE SHAFT / GEAR TIMING DIAGRAM

12.1 TIMING DIAGRAM



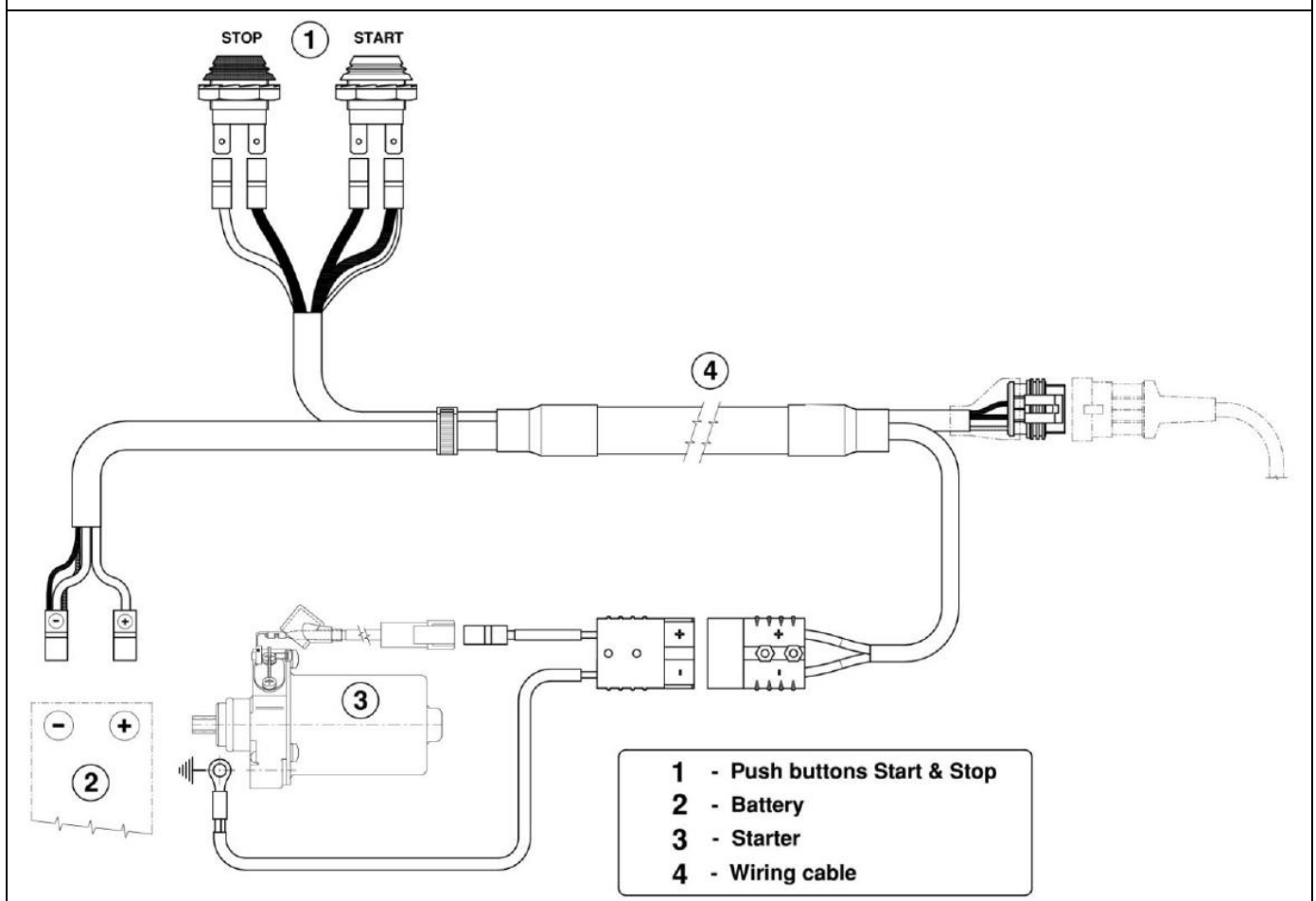
END

SIGNATURE AND STAMP

 	Date: 01 January 2019 Signed by: Joe Hickerton Position: Technical Manager
---	---

Appendix 23
HOMOLOGATION OF KART ENGINE – VARIANT

<i>Category</i>	IAME X30 – ALL CLASSES
<i>Manufacturer</i>	IAME
<i>Model</i>	X30 125cc RL TAG – UK
<i>Valid From</i>	01 January 2019
<i>Number of pages</i>	2



ALTERNATIVE WIRING LOOM
9.0 WIRING DIAGRAM


9.1 PHOTO OF COMPLETE WIRING LOOM



END

SIGNATURE AND STAMP

 	Date: 01 January 2019 Signed by: Joe Hickerton Position: Technical Manager
--	---



Appendix 24
HOMOLOGATION OF KART ENGINE – VARIANT

<i>Category</i>	IAME X30 – ALL CLASSES
<i>Manufacturer</i>	IAME
<i>Model</i>	X30 125cc RL TAG – UK
<i>Valid From</i>	01 January 2019
<i>Number of pages</i>	1

ALTERNATIVE SMALL END CONROD BEARINGS
3.4 SMALL END CONROD BEARING
TYPE 1

TYPE 2

END
SIGNATURE AND STAMP









 	Date: 01 January 2019
	Signed by: Joe Hickerton
	Position: Technical Manager

Appendix 25
HOMOLOGATION OF KART ENGINE – VARIANT

<i>Category</i>	IAME X30 – ALL CLASSES
<i>Manufacturer</i>	IAME
<i>Model</i>	X30 125cc RL TAG – UK
<i>Valid From</i>	01 January 2019
<i>Number of pages</i>	3

NEW LOGO MARKINGS

(note previous logo markings remain valid)

CYLINDER HEAD	CYLINDER
 <p style="text-align: center;">NEW LOGO</p> 	 <p style="text-align: center;">NEW LOGO</p> 
CRANKCASE – TRANSMISSION SIDE	CRANKCASE – IGNITION SIDE
 <p style="text-align: center;">NEW LOGO</p> 	 <p style="text-align: center;">NEW LOGO</p> 

IGNITION COVER



NEW LOGO



CLUTCH COVER



NEW LOGO



REED GROUP



NEW LOGO



CARBURETTOR INLET CONVEYOR

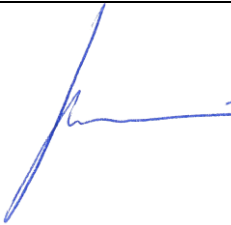



NEW LOGO



EXHAUST – TYPE 1	EXHAUST – TYPE 2
 <p>NEW LOGO</p>   <p>NEW LOGO</p> 	 <p>NEW LOGO</p>  <p>NEW LOGO</p> 
<p>EXHAUST HEADER</p>	
 <p>NEW LOGO</p> 	

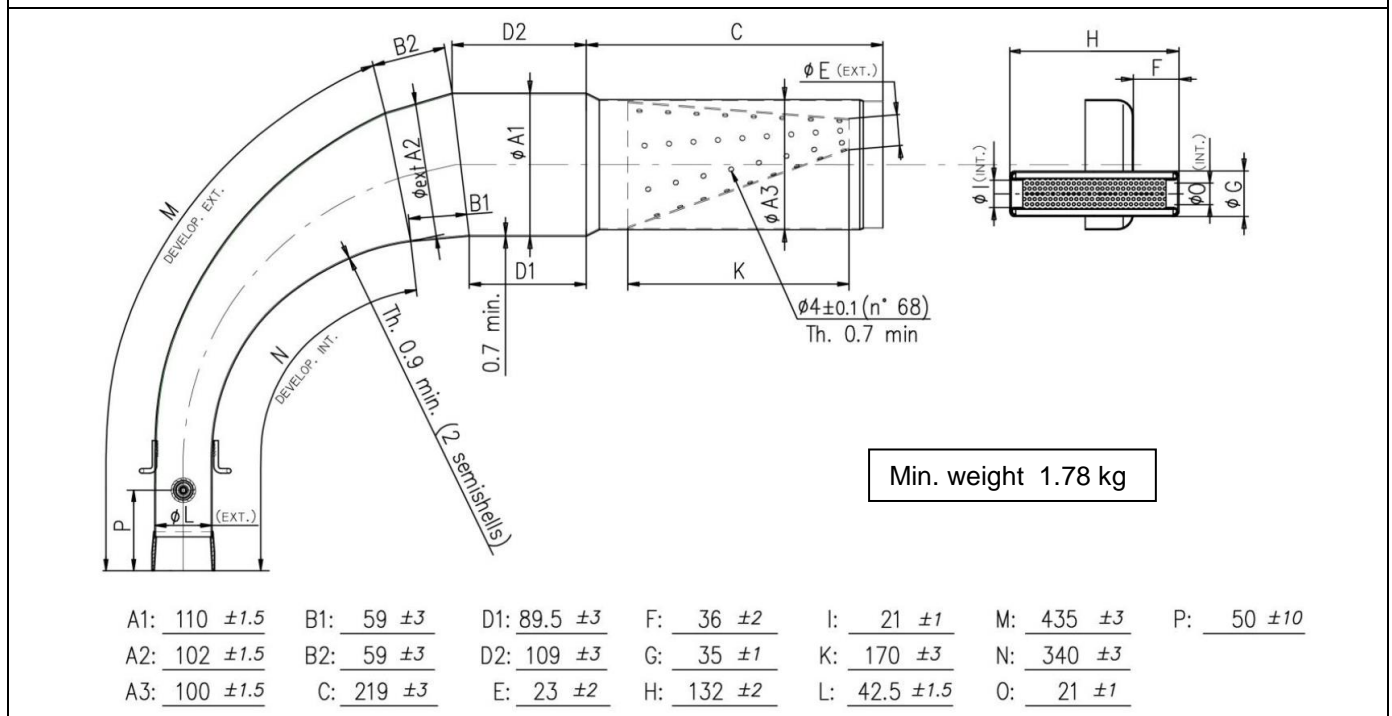
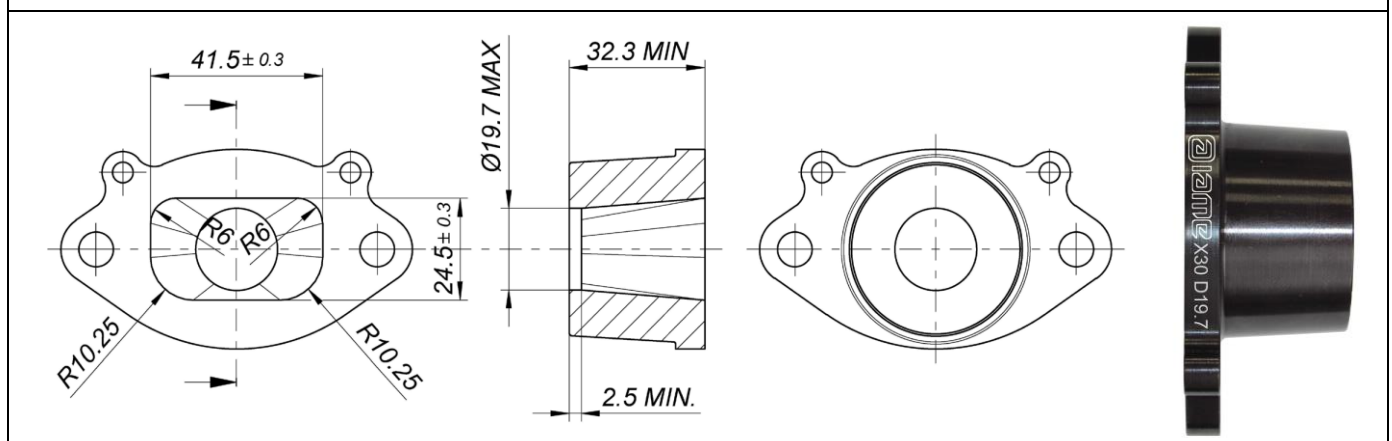
END

SIGNATURE AND STAMP	
 	<p>Date: 01 January 2019</p> <p>Signed by: Joe Hickerton</p> <p>Position: Technical Manager</p>

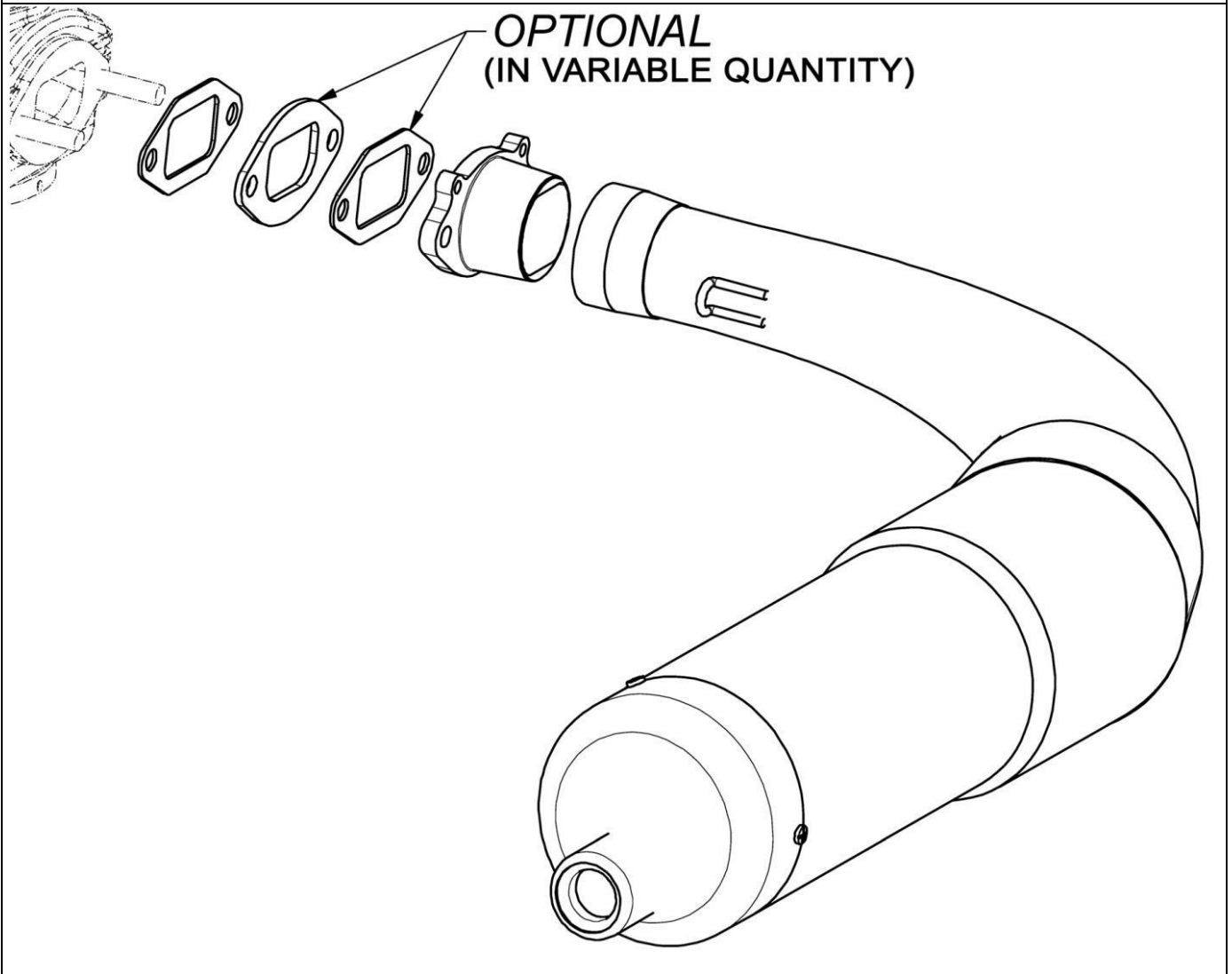
Appendix 26
HOMOLOGATION OF KART ENGINE – AMENDMENT

This Appendix fully replaces relevant sections of the main fiche and appendices 11 and 16 for MINI only

Category	IAME X30 MINI X
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2020
Number of pages	2

MANDATORY EXHAUST & RESTRICTOR – MINI X
13.0 EXHAUST MUFFLER

13.1 EXHAUST FITTING AND RESTRICTOR


13.2 EXHAUST INSTALLATION



END

SIGNATURE AND STAMP

  motor sport UK	Date: 01 January 2020 Signed by: Joe Hickerton Position: Technical Manager
---	---

Appendix 27
HOMOLOGATION OF KART ENGINE – VARIANT


<i>Category</i>	IAME X30 – ALL CLASSES
<i>Manufacturer</i>	IAME
<i>Model</i>	X30 125cc RL TAG – UK
<i>Valid From</i>	01 January 2020
<i>Number of pages</i>	1

ALTERNATIVE WIRING LOOM WITH NEW STOP BUTTON

Wiring diagram is as shown in Appendix 23

9.1 PHOTO OF COMPLETE WIRING LOOM

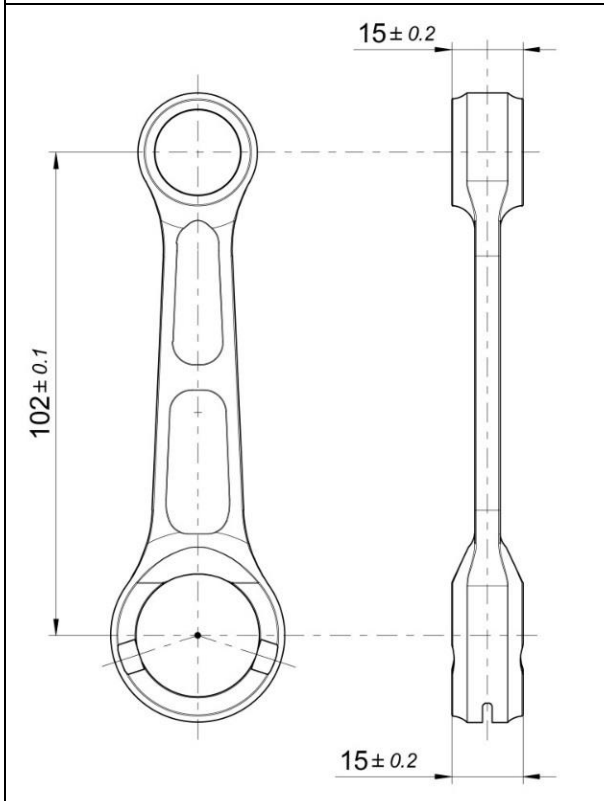
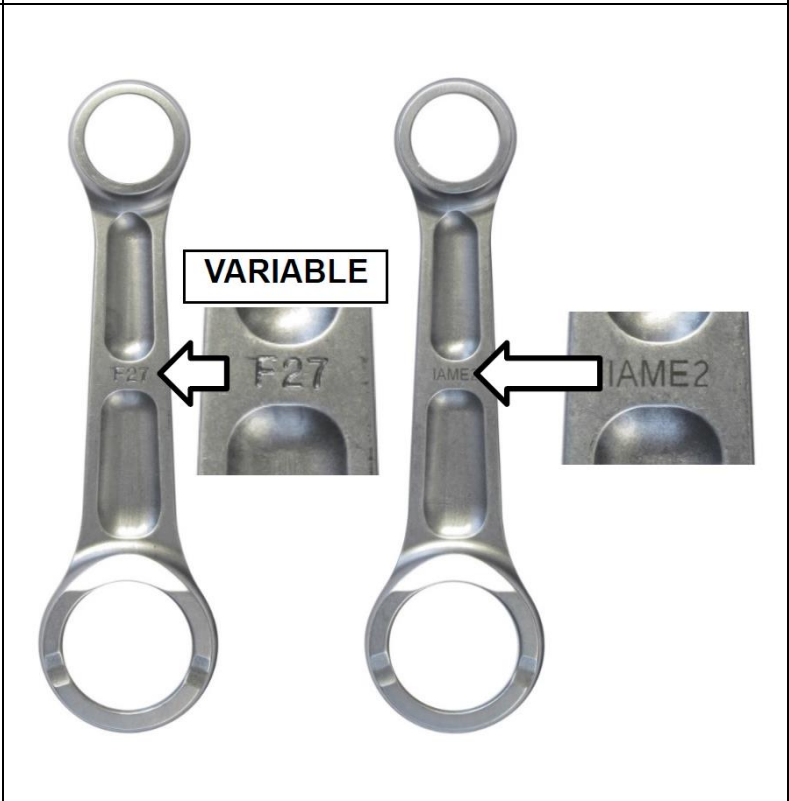
END
SIGNATURE AND STAMP

 	Date: 01 January 2020 Signed by: Joe Hickerton Position: Technical Manager
---	---

Appendix 28
HOMOLOGATION OF KART ENGINE – VARIANT

<i>Category</i>	IAME X30 – ALL CLASSES
<i>Manufacturer</i>	IAME
<i>Model</i>	X30 125cc RL TAG – UK
<i>Valid From</i>	01 January 2020
<i>Number of pages</i>	2

ALTERNATIVE CONROD & THRUST WASHER

3.1 DISTANCE BETWEEN CONROD CENTERS	14.4 CONROD IDENTIFICATION MARKING
	

3.5 THRUST WASHER

Original



Alternative



END

SIGNATURE AND STAMP

  motor sport UK

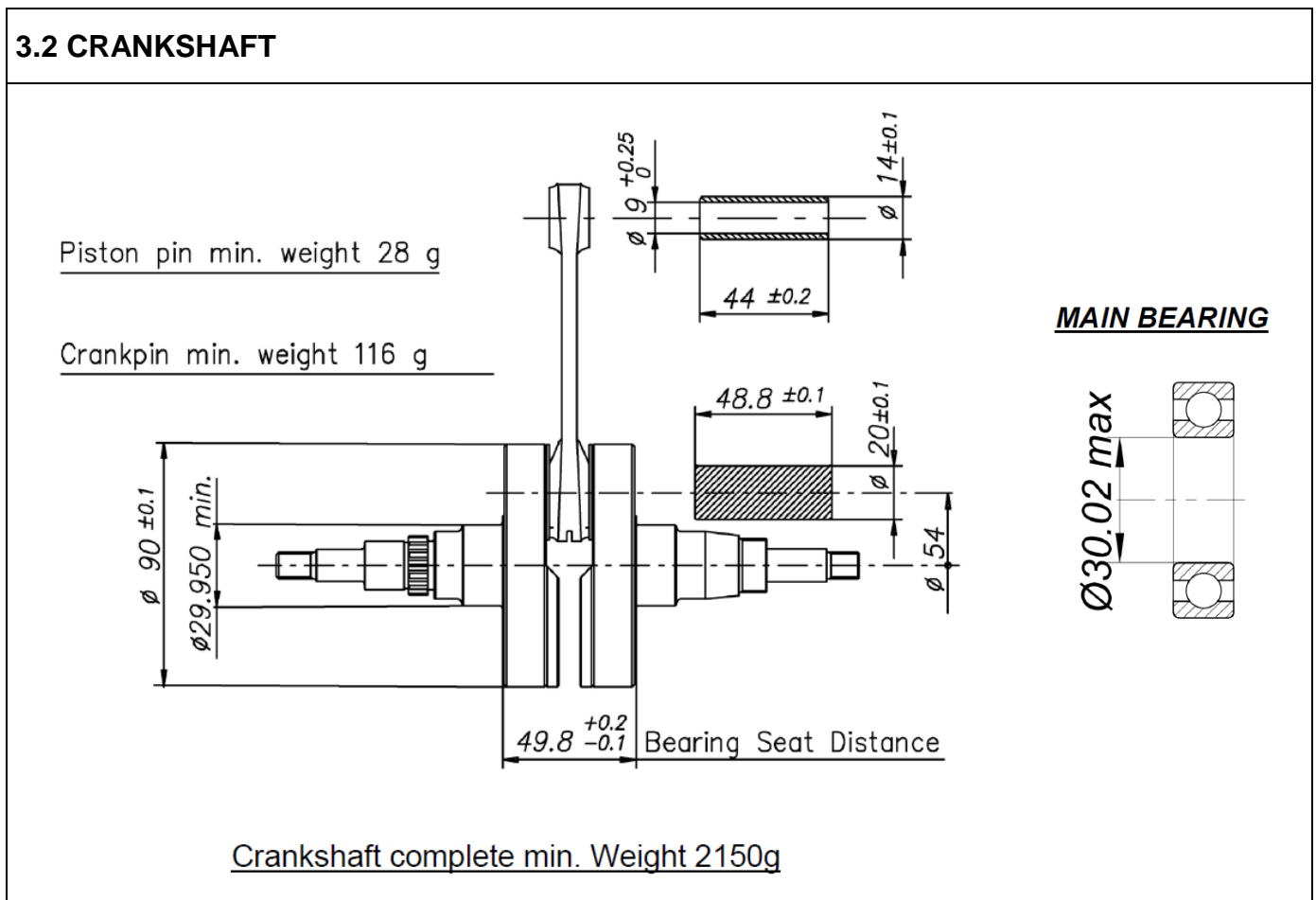
Date: **01 January 2020**


Signed by: **Joe Hickerton**

Position: **Technical Manager**

Appendix 29
HOMOLOGATION OF KART ENGINE – AMENDMENT
This Appendix fully replaces the relevant section of the main fiche

Category	IAME X30 – ALL CLASSES
Manufacturer	IAME
Model	X30 125cc RL TAG – UK
Valid From	01 January 2020
Number of pages	1

CRANKSHAFT & MAIN BEARING DIMENSIONS
3.2 CRANKSHAFT

END
SIGNATURE AND STAMP

	Date: 01 January 2020
	Signed by: Joe Hickerton
	Position: Technical Manager