



All-Ireland Rotax Max Challenge

Technical Regulation 2025

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Version 1.1

Changes highlighted in yellow



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1. GENERAL

The RMC Technical Regulations 2025 replace the RMC Technical Regulations 2024.

Anything which is not expressly allowed in the technical regulations is forbidden.

The English language is the authentic version.

1.1 CATEGORIES

Engines used in the All-Ireland Rotax MAX Challenge (RMC), are divided into the following classes:

- 125 Micro MAX – Cadet Micro MAX
- 125 Mini MAX – Inter Mini MAX
- 125 Junior MAX – Junior MAX
- 125 Senior MAX – Senior MAX / Senior MAX 177

Note

The 125 Junior MAX engine is the basis for the engine configurations 125 Micro MAX and 125 Mini MAX. Only the deviations for 125 Micro MAX and 125 Mini MAX from the standard Technical Regulation for the 125 Junior MAX engine are defined.

The 125 Senior MAX engine is the basis for the engine configurations in the 125 Senior MAX Masters class with regards to all the component related regulations, except for class weight and driver's age.

1.2 AMOUNT OF EQUIPMENT

For each RMC race event (practice to the final) the following maximum amount of equipment is allowed:

- 1 chassis
- 1 set of dry tires *
- 2 engines

*In the event of a race tire being damaged, the technical scrutineer may allow the competitor to nominate a "USED" tire of similar wear from the drivers registered practice tires as a replacement. The damage must be reported to the scrutineer immediately after the on-track action where the damage occurred, and prior to leaving the parc ferme / scale area.

2. EQUIPMENT

2.1 CHASSIS 125 MICRO MAX, 125 MINI MAX

Any chassis with a valid CIK-FIA homologation is allowed with a wheelbase of 950 mm. Front brakes are not allowed.

2.2 CHASSIS 125 JUNIOR MAX AND 125 SENIOR MAX

Front brakes are not allowed.

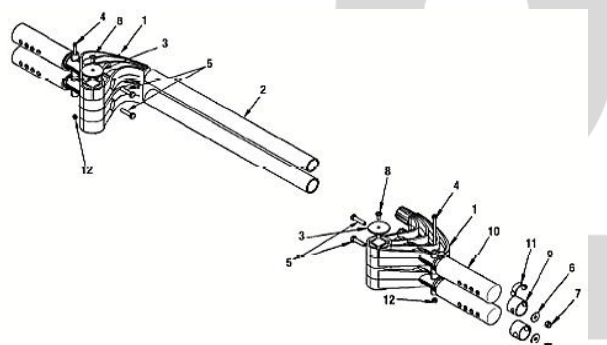
Maximum diameter of rear axle = 50 mm, minimum wall thickness according to CIK-FIA rules.

Note

For the rear bumper either a system with a valid CIK-FIA homologation or the Rotax rear tire protection system (according to illustration) must be used.

No part shall be added or removed from original content (except safety wire or bolt connection between pos. 1 and pos. 2 as well as number plate with support).

Rotax original (orange or red) protection rollers only are allowed to be used.



2.3 CHASSIS PROTECTION

It is permitted to attach chassis protectors to the chassis rails left, right and front. The only material permitted is plastic. The installation and wear must satisfy the scrutineers of the event.

2.4 BODYWORK

In accordance with regulations of MSUK, MI or CIK-FIA.

2.5 TYRES

The following tires must be used:

			Front Tyre	Rear Tyre
125 Micro MAX	Dry	Vega Cadetti 'UK'	4.0 / 10.0 - 5	5.0 / 11.0 - 5
	Wet	Vega WM1 CIK	10 x 4 - 5	11 x 5 - 5
125 Mini MAX	Dry	Mojo C2 CIK Mini	4.0 / 10.0 - 5	5.0 / 11.0 - 5
	Wet	Mojo CW CIK Mini	10 x 3,60 - 5	11 x 4,50 - 5
125 Junior MAX	Dry	Mojo D2XX CIK Option	4,5 / 10.0 - 5	7.1 / 11.0 - 5
	Wet	Mojo W5 CIK	10 x 4,50 - 5	11 x 6,00 - 5
125 Senior MAX	Dry	Mojo D5 CIK Prime	4,5 / 10.0 - 5	7.1 / 11.0 - 5
	Wet	Mojo W5 CIK	10 x 4,50 - 5	11 x 6,00 - 5

- Strictly no modifications or tire treatment allowed.
- Tyres must be mounted according to the sense of rotation defined on the tire.

2.6 DATA ACQUISITION

Systems which permit the reading/recording of following data only are allowed:

- Lap time
- Engine rpm (by induction on the high-tension cable)
- Two indications of temperature
- The speed of one wheel
- Acceleration in X/Y direction
- Position (via GPS system)
- Steering wheel angle sensor
- Connection of the data acquisition system to the original Rotax battery is allowed
- During free practice also, telemetry systems are allowed

2.7 COMPOSITE MATERIALS

Composite materials (carbon-fiber, etc.) are banned except for the seat and the floor tray.

Alloys from different metals / substances are not considered as composite materials.

2.8 SAFETY EQUIPMENT

Suit, helmets, kart shoes, gloves and other kind of driver protection must comply with the regulations of MSUK & MI.

2.9 FUEL / OIL

- Unleaded pump fuel only from a designated petrol station stated in the event regulations. Ron cannot exceed 98 octane. No additives are permitted.
- XPS CASTOR RACING OIL 2T is **recommended mandatory**

NOTE: It is allowed by a race organiser / scrutineer to exchange the fuel / oil from any competitor to parc ferme status fuel and oil at any time.

3. ENGINE SEALING & SCRUTINEERING

Only engines registered as part of the Rotax Karting Ireland network are eligible.

Only Irish Rotax Service Centres that can service & seal engines, the list of authorised service centres can be found here: <https://www.rotaxkartingireland.com/dealernetwork>

By sealing an engine, the ROTAX Authorised Service Centre takes over the responsibility for the conformity of the engine with according to the valid Technical Regulation.

Note

Engines must be sealed with specific ROTAX engine seals (black anodised aluminium seal with "ROTAX" - logo and a 6-digit serial number and a barcode)

Only Irish barcoded seals are eligible to score points. UK (JAG) seals are permitted to race as a "guest" entry only.

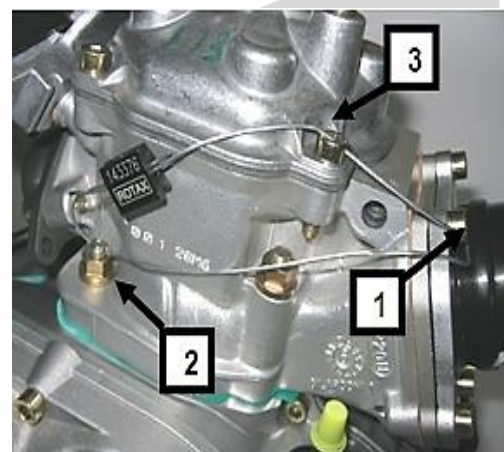


Note

By means of the steel cable the engine must be sealed on one Allen screw (Pos 1) of the intake flange, on one stud screw (Pos 2) of cylinder and one Allen screw (Pos 3) of the cylinder head cover (see attached pictures).

After sealing the engine seal thread must be squeezed using calliper ROTAX 276110 (see picture of engine seal).

It is not allowed to pass the end of the sealing wire through the seal a second time (as shown in picture only).



At every new sealing of an engine the ROTAX Authorised Service Centre checks and seals an engine is responsible for following indications at the Engine Identity Card which belongs to the owner of the engine.

- Serial no. of the engine
- Serial no. of the engine seal
- Stamp and signature of the Authorized Service Centre

At scrutineering the driver has to present:

- The engine(s) with the undamaged engine seal(s)
- The Engine Identity Card(s), showing the matching engine serial no.(s), the matching engine seal no.(s), the stamp(s) and signature(s) of the Authorized Distributor or Service Centre that has (have) checked and sealed the engine(s).



Scrutineers can request to open and re-check an engine according to the Technical Specification.

Note

FOR ALL COMPONENTS OUTSIDE THE ENGINE SEAL, THE COMPETITOR IS RESPONSIBLE TO ASSURE THE CONFORMITY WITH THE TECHNICAL REGULATIONS.

4. ENGINE MODIFICATIONS, REPAIRS AND ADDITIONS

4.1 MODIFICATIONS

Neither the engine nor any of its ancillaries may be modified in any way. "Modified" is defined as any change in form, content or function that represents a condition of difference from that originally designed. This is to include the addition and / or omission of parts and/or material from the engine package assembly unless specifically allowed within these rules. The adjustment of elements specifically designed for that purpose shall not be classified as modifications, i.e., carburettor and exhaust valve adjustment screws.

The repair of a thread on the crankcase (maximum of three threaded holes per crankcase) using a "Heli - coil" or similar is allowed.

Exception: The threads located under the crankcase to fix the crankcase on the engine mount may be repaired as needed.

The repair of a thread on the cylinder (maximum of three threaded holes per cylinder) using a "Heli - coil" or similar is allowed.

Genuine ROTAX components only that are specifically designed and supplied for the 125 Micro MAX, 125 Mini MAX, 125 Junior MAX and the 125 Senior MAX engine are legal, unless otherwise specified.

Note

ANYTHING WHICH IS NOT EXPRESSLY ALLOWED IN THE TECHNICAL REGULATIONS IS FORBIDDEN.

4.2 INTERNAL ADDITIONS

No additional material may be added except in the case of engine repairs and shall only restore the engine or components to original specifications.

The use of thermal barrier coatings/ceramic coatings on or in the engine and on or in the exhaust system is prohibited.

The use of anti-friction coatings in or on the engine/engine components is prohibited.

Example of allowed repairs (but not limited to):

Example 1, Damaged Cylinder due to freezing.

It is allowed to repair the cracked cylinder by welding.

It would also be allowed to dress / finish the area marked red to restore the part to the original specification.

It would not be allowed to dress / finish areas not effected by damage.



Example 2, Exhaust valve flange area repair. Only allowed on cylinder ID codes 223933.

Exhaust valve flange area (marked red) is damaged through contact wear with the exhaust valve.

It would be permitted to repair the red marked area only.

To dress or finish the area which was repaired in the red area would be allowed to ensure the engine is restored to its original specification.



Note

Removal of additional, as supplied material from the surrounding areas is strictly forbidden.

4.3 LEGAL ADDITIONS

Chain guard, engine mount, temperature gauge and tachometer/hour meter, catch cans for liquids with mounting brackets.

Sensor for exhaust gas temperature (see exhaust systems).

4.4 NON-TECH ITEMS

Non-original fasteners, circlips, washers, throttle cable housing, fuel and pulse line (type and size) as well as length of coolant hoses are allowed unless otherwise specified.

4.5 MEASUREMENTS

When taking any dimensional reading, of the following technical regulation, in the order of accuracy of 0,10 mm or even more precise, the temperature of the part must be between +10°C and +30°C.

Before taking any decision based on this regulation a check for available Bulletins* is mandatory.

* <https://www.motorsportireland.com/regulations>

To avoid excessive noise and exhaust emissions revving the engine in the servicing park is not allowed.

5. TECHNICAL SPECIFICATION WITHIN THE ENGINE SEAL FOR ROTAX MAX KART ENGINES

5.1 SQUISH GAP

The crankshaft must be turned by hand slowly over top dead centre to squeeze the tin wire.

The squish gap must be measured on the left and right side in the direction of the piston pin.

The average value of the two measurements counts.

		Minimum Squish
125 Micro MAX*	3-mm tin wire (Rotax p/n 580132 must be used)	2,40 mm
125 Mini MAX	2-mm tin wire (Rotax p/n 580130 must be used)	1,20 mm
125 Junior MAX	2-mm tin wire (Rotax p/n 580130 must be used)	1,20 mm
125 Senior MAX	2-mm tin wire (Rotax p/n 580130 must be used)	1,00 mm

*To achieve the defined minimum squish gap one spacer (Restrictor plate Rotax 626420, with same shape as cylinder base gasket) in combination with at least two-cylinder base gaskets (one below the spacer and one above the spacer) must be used.

5.2 COMBUSTION CHAMBER INSERT

Cast identification code has to be either:

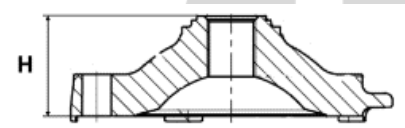
- 223389
- 223389 1
- 223389 2
- 223389 2/1
- 223389 2/2

The profile of the combustion chamber insert must be checked with a template (ROTAX 277390).

The crack of light between the template and the profile of the combustion chamber insert must be the same over the whole profile.



Height [H] of combustion chamber insert must be 28,80 mm +/- 0,2 mm.



Casted wording "ROTAX" and/or "MADE IN AUSTRIA" must be shown.

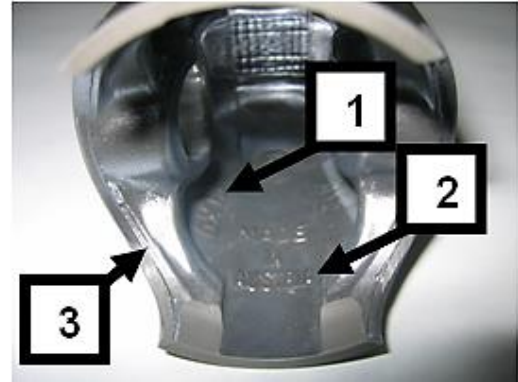


5.3 PISTON WITH RING ASSEMBLY

Original, coated, aluminium, cast piston with one piston ring. The piston must show on the inside the cast wording "ELKO" [1] and "MADE IN AUSTRIA" [2].

Machined areas are:

- Top end of piston
- Outside diameter
- Groove for the piston ring
- Bore for the piston pin
- Inside diameter at bottom end of piston and some pre-existing factory removal [3] of flashing at the cut out of the piston skirt



All other surfaces are not machined and have cast surface.

Any mechanical treatment or rework of the piston is forbidden, (Altering the pistons profile by reworking carbon build-up is forbidden, if carbon is removed it must be consistently removed across the entire surface without altering the profile of the piston itself).

Example, selectively removing carbon in the squish measurement areas is forbidden.

Original, magnetic, rectangular piston ring.

Ring height: 0,98 +/- 0,02 mm.

Piston ring is marked either with:

- ROTAX 215547
- ROTAX 215548
- ROTAX 215548 X
- I ROTAX 215548 X



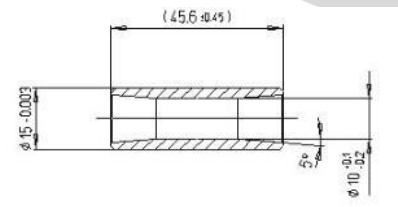
The piston ring is legal also if just parts of the marking are still visible.

5.4 PISTON PIN

Piston pin is made out of magnetic steel.

Dimensions must be according to the drawing.

The minimum weight of the piston pin must not be lower than 31,00 grams.



5.5 CYLINDER

Light-alloy-cylinder with GILNISIL or NiCaSil- plating.

Any re-plating of cylinder is not allowed.

Maximum bore of cylinder = 54,035 mm (measured 10 mm above the exhaust port).

5.5.1 Cylinder must be marked with "ROTAX" or "ROTAX RACING" logo (see pictures below).

125 Micro MAX, 125 Mini MAX and 125 Junior MAX:

Cylinder with one main exhaust port and without exhaust valve.

From the 1st of January 2025 onwards Only Cylinders marked with identification code 413530 are legal to be used and must be marked with the "ROTAX RACING" logo in the 125 Micro MAX, 125 Mini MAX and 125 Junior MAX categories.



Old type cylinders marked with identification code **223994** cannot be used.



125 Senior MAX:

Cylinder with one main exhaust port and exhaust valve.

Cylinders must be marked with "ROTAX" (below right) or "ROTAX RACING" (below left).

Cylinders marked (cast or machined) with identification code 223993 or cast 413531 only are legal to be used.



5.5.2 Height of cylinder

Measured with a digital calliper min. length 200 mm.

	Height	Tolerance
125 Micro MAX	87,00 mm	+0,1 mm -0,05 mm
125 Mini MAX	87,00 mm	+0,1 mm -0,05 mm
125 Junior MAX	87,00 mm	+0,1 mm -0,05 mm
125 Senior MAX	87,00 mm	+0,1 mm -0,05 mm



5.5.3 Cylinder surfaces (ID Code 223993 or 223994)

All transfer ports and passages have cast finish surface except some removal (done by the manufacturer) of cast burr at the inlet passage, exhaust port and passages. All ports have chamfered edges to prevent ring snagging. Any additional machining is not permitted.

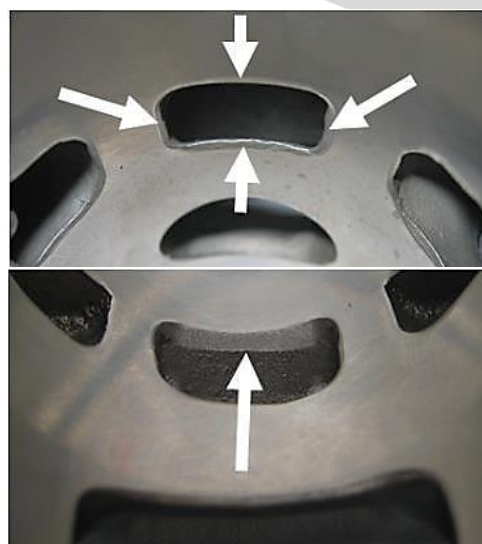
The top edge of exhaust port may show some pre-existing machining from the manufacturer. The sealing flange for the exhaust socket may show signs of machining from the manufacturer.



Important

All ports have chamfered edges. Any additional machining is not permitted.

The upper edge of the central boost port may show factory machining (shown below)



The flange for the exhaust socket may show either cast finish or machined surface.

Machined surface can be either flat or show a circular sealing bump.



The top edge of the exhaust port may show either just a cast finish surface (left picture) or signs of a CNC machining (central picture) or signs of CNC machining in combination with signs of manual grinding (right picture).

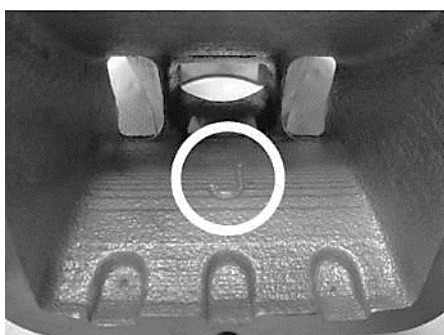


The exhaust port may show partial manual grinding done by the manufacturer to eliminate minor casting defects and/or to eliminate the NIKASIL burr at the end of the NIKASIL plating (see above right picture).

Single Core Cylinder:

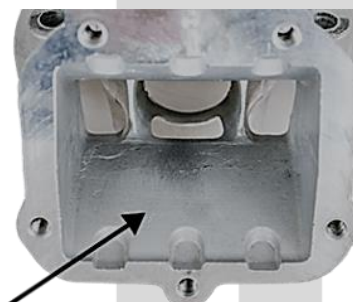
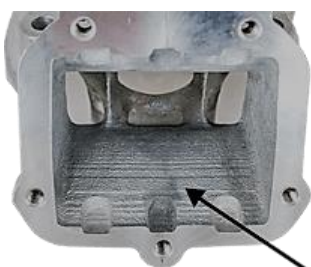
Cylinders marked 223994 and 223993 may show in the inlet port a linear texture.

Cylinders marked 223994 and 223993 with linear texture in the inlet port show a fully CNC machined exhaust port and a fully CNC machined top edge of the central boost port.



Single Core Cylinder

Linear structured cast finish surface



5.5.4 Cylinder surfaces (ID Code 413530 or 413531)

All transfer ports and passages (1) have a uniform smooth cast finish.

All ports, port heights, and chamfer of the ports show signs of extended CNC control machining (2).

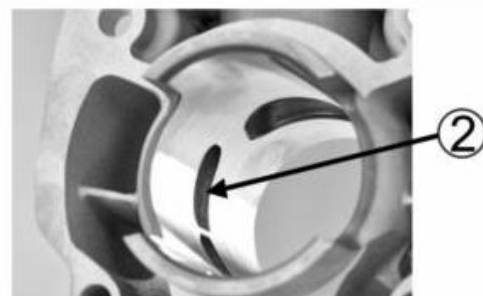
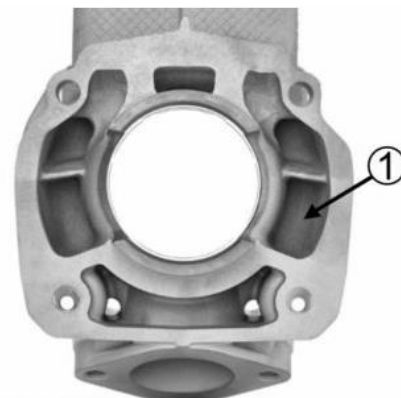
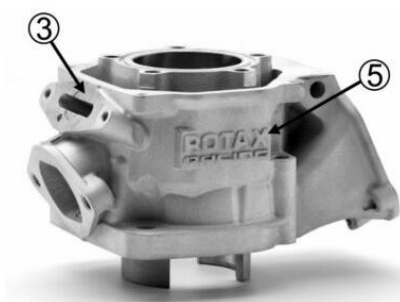
The sealing flange for the exhaust socket shows a cast finish.

Any additional machining is not permitted.

All cylinders are marked with the ROTAX RACING logo (5) and QR code (4). It is allowed to use a cylinder with a faded or worn QR code.

For Cylinders marked ID code 413531 a NiCasil plated stop for the exhaust valve is present (3).

Any additional machining is not permitted.



5.5.5 Exhaust port shape

Cylinder 223994 with fully CNC machined exhaust port only:

The horizontal and vertical dimensions of the exhaust port have to be checked with the template, Rotax 676240.

Cylinder 223993 with fully CNC machined exhaust port only:

The horizontal and vertical dimensions of the exhaust port have to be checked with the template, marked with 676245*.



Cylinder 413530

The horizontal and vertical dimensions of the exhaust port must be checked with the template,

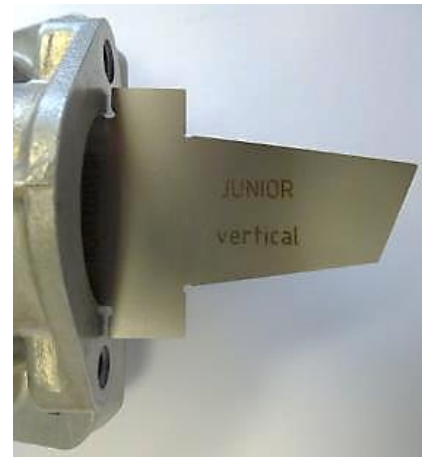
Normal cast finish surface.

Rotax 676242.

Cylinder 413531

The horizontal and vertical dimensions of the exhaust port must be checked with the template, Rotax 676247.

The template must be moved in horizontal and vertical Position as far as Possible into the exhaust port.



In both directions, the template may not touch the flange for the exhaust socket.

(Checked without the gasket between the cylinder and exhaust socket)

5.5.6 Exhaust port timing

The "exhaust port timing" (distance from the top of the cylinder to the top of the exhaust port) has to be checked by means of the template (ROTAX 277402).

Insert the template into the cylinder and move the template (at the highest point of the exhaust port) as far as Possible into the exhaust port.

In this Position the template may not touch the cylinder wall.

Take care to use the correct gauge for:

- Junior MAX (Junior template to be used for Micro MAX and Mini MAX)
- Senior MAX



5.6 INLET SYSTEM

5.6.1 Reed valve assy.

The reed valve assy. is equipped with 2 petal stops and 2 reeds, each having 3 petals.

	Thickness	Tolerance
Reed Valve	0,6 mm	+0,10 mm -0,10 mm

Flattening of the curved reed valve stopper plates is forbidden.

The minimum gap between the 2 stopper plates must be greater than 16.70mm.

The measurement must be taken using a digital calliper from the inside surface of the stopper plates in line with the middle of each reed petal, as indicated by the red lines in the picture.

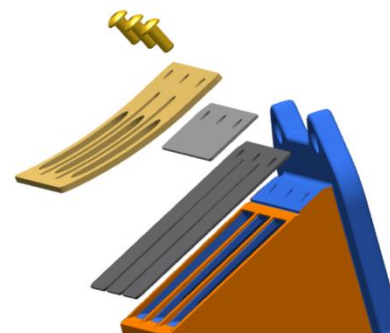


For 125 Micro MAX and 125 Mini MAX

It is mandatory to add 2 x additional “distance plates” to the reed block assy.

The “distance plates” must be secured tightly between the reed petals and the curved stopper plate on both sides of the reed assy and in the order as show in the diagram.

It is allowed to install up to 2 gaskets between the reed block assy and the cylinder.

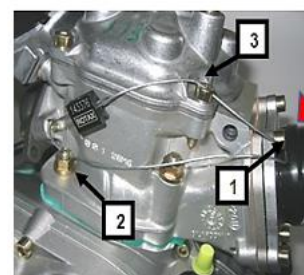


For Information only / non-tech item:

The assembly should utilize only oval head screws M3x6 (ROTAX Part number 240351).

The use of tap tight fixings is not recommended for this application.

For identification purposes that the distance plates are installed, a M6 washer should be placed under the bolt which is secured with the seal in position 1 as indicated in the picture.

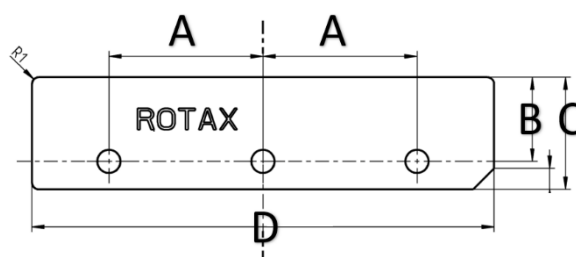


The 2 x distance plates must be engraved "ROTAX" (as per the drawing below)

The plate must be flat with no curvature and meet the below specification.

A ROTAX part number may be engraved on the plate.

	Measurement	Tolerance
A	22,00 mm	+0,2 mm
		-0,2 mm
B	10,00 mm	+0,3 mm
		-0,3 mm
C	16,00 mm	+0,3 mm
		-0,3 mm
D	66,00 mm	+0,7 mm
		-0,7 mm
Distance plate thickness	0,70 mm	+0,08 mm
		-0,08 mm
Location holes	3,3 mm	+0,2 mm
		-0,2 mm



5.6.2 Inlet manifold

Some factory flash removal may be present at the conjunction of the inside contour and the carburettor stop mounting face. This is a manual trimming operation consisting of a small corner break of less than 3 mm in width. No additional grinding or machining is permitted.

Inlet manifold marked with the identification code "267915" and the name "ROTAX" or just "267916".



5.7 CRANKSHAFT

5.7.1 Con rod

	Length	Tolerance
Stroke	54,5 mm	+0,10 mm -0,10 mm

Con rod has to show forged numbers "213", "365", "367" or "362" on shaft.

Shafts of con rods "213", "365" and "367" are not machined and are copper plated.

Shaft of con rod "362" is not copper plated and is blank (grey/brown).

Grinding or polishing of shaft of con rod is not permitted.



5.7.2 Ignition signal on crankshaft

Fit the template (Rotax 277391) on the crankshaft.

Align the hole in the template for the big end pin with the big end pin of the crankshaft.

The two edges of the signal machining on the crankshaft must be in line ($\pm 0,5$ mm) with the corresponding edges (marked "MAX") of the template.

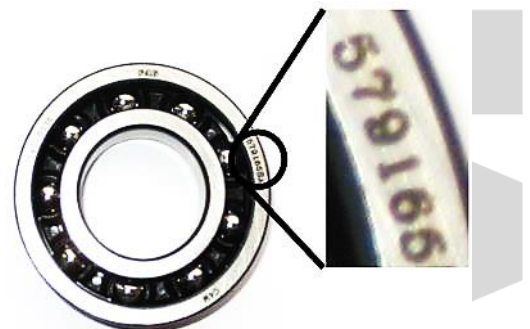


5.7.3 Crankshaft main bearings

Crankshaft main bearing 6206 from FAG is allowed only.

The bearing mounting direction is free.

Must be marked with code 579165BA, Z-579165.11. KL or Z-579165.21. KL



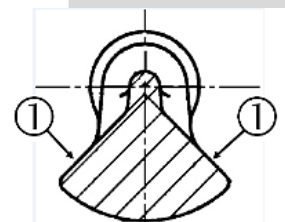
5.8 BALANCE SHAFT

Balance shaft and balance gears must be installed.

Balance shaft must show casting code 237944, 6237948 or 6237949 on surface (1).

Surface (1) is not machined and must show cast surface.

The minimum weigh of the dry balance shaft must not be lower than: 255 grams.



5.8.1 Crankcase

As supplied by the manufacturer.

No grinding/polishing is permitted in the two main transfer passages as well as in the crank area.

Machining maybe evident in the crankcases in the area identified in the picture and in the ignition crank sensor bore area.

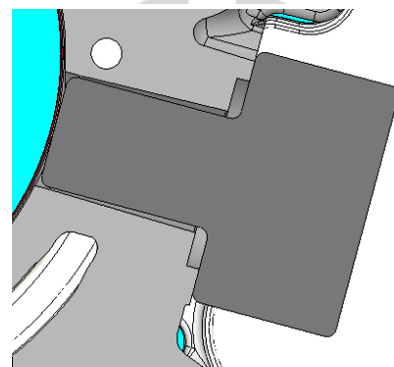
For Micro MAX & Mini MAX only black coated originally machined pick-up flange type crankcases with casting codes 6211885 (ignition sensor side) and 6211893 (clutch side) are permitted.



For all other classes uncoated or black coated crankcases are legal to be used.

For all classes Ignition distance control gauge (277406) must be inserted in a vertical direction into the bore for the ignition sensor. The gauge must fully touch the stopper surface of the crank case, no gaps must be visible in the facing areas.

This measurement is only valid for original machined pick-up flange type with casting codes 6211885 (ignition sensor side).



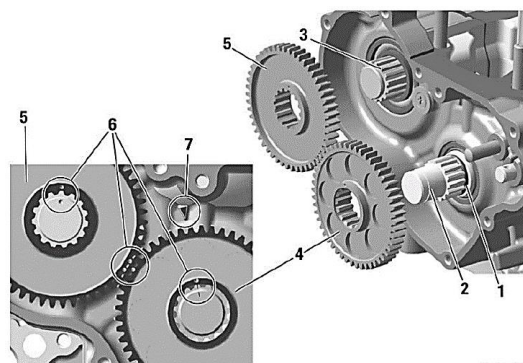
6. TECHNICAL SPECIFICATION OUTSIDE THE ENGINE SEAL FOR ROTAX MAX KART ENGINES

It is the responsibility of the competitor to check his equipment (all components outside the engine seal as mentioned below), to assure that his equipment is conforming to the technical specification below.

6.1 BALANCE DRIVE

Steel balance gears only (minimum width = 8,8 mm) are legal to be used.

Balance gears must be installed and must be aligned according to the instruction in the repair manual.



KA_129_0270

6.2 CENTRIFUGAL CLUTCH

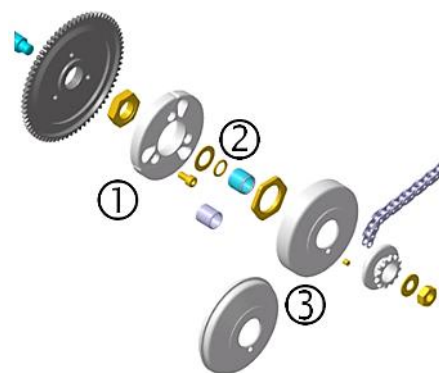
6.2.1 Components

Engagement speed of centrifugal clutch at maximum 4.000 rpm (the kart without driver must start to move).

Two versions of clutch (Item 1, with and without holes) are legal to be used.

Both versions are marked with the wording "ROTAX".

O-ring (Item 2) must be fitted and must assure an appropriate sealing between the clutch drum and the needle/plain bearing.



Two versions of clutch drum (Item 3) are legal to be used.

Both versions are marked with the wording "ROTAX".

Signs of emission of grease or substance from the needle/plain bearing into the clutch drum may not exceed the picture beside.

Contact area between clutch and clutch drum has to be dry at any time – no lubrication allowed.



6.2.2 Clutch dimensions

Thickness of clutch shoe (A): Minimum = 24,10 mm

Measurement must be done at the 3 open ends of the clutch, 5-10 mm from the machined groove (all clutch shoes must be completely closed at measurement - no gap).

Height of clutch (B): Minimum = 11,45 mm

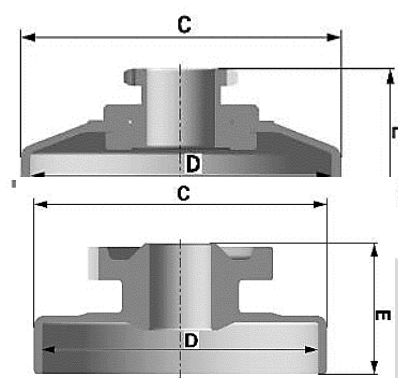
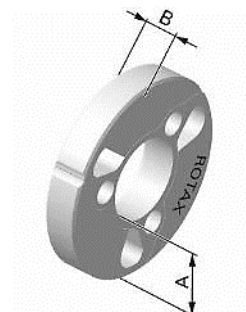
Clutch drum Outer diameter (C): Minimum = 89,50 mm

Diameter must be measured with a sliding calliper just beside the radius from the shoulder (not at the open end of the clutch drum).

Clutch drum Inner diameter (D): Maximum = 84,90 mm

Diameter must be measured with a sliding calliper. The measurement must be done in the middle of the clutch drum (in the contact area between clutch and clutch drum).

Clutch drum Height (E) with sprocket / primary gear : Minimum = 33,90 mm



6.3 COMBINATION OF IGNITION SYSTEM, CARBURETTOR AND EXHAUST SYSTEM

The combination of components is limited to following specification per engine type.

Component / MAX Engine	Micro	Mini	Junior	Senior
Ignition system Dell'orto	✓	✓	✓	✓
Exhaust valve, electronically timed	-	-	-	✓
Carburettor XS	✓	✓	✓	✓
Exhaust system, EVO	✓	✓	✓	✓

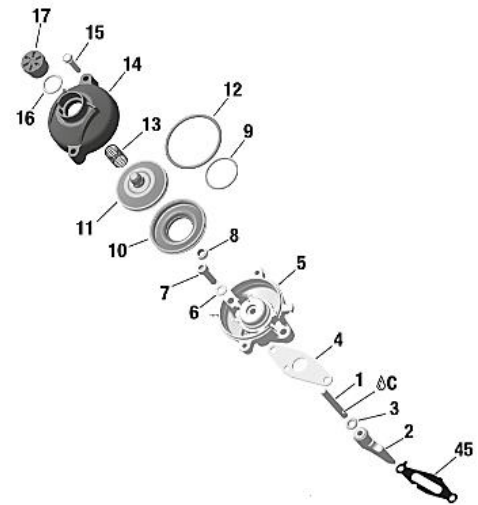
6.4 EXHAUST VALVE

System must be used with all components fitted as shown in the illustration.

The cylinder protection plate (45) (p/n 2511336) can be installed and must have a minimum thickness of 0,08mm.

For cylinders with ID 223933 the protection plate (45) (p/n 2511336) must be installed and must have a minimum thickness of 0,08mm.

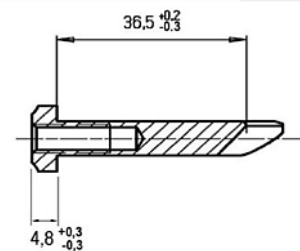
For Cylinder ID Codes 413531 (stamped as “ROTAX RACING”) it is not required to use the cylinder protection plate (45).



It is Possible for the cylinder protection plate (45) to show signs of wear or damage.
Bellow (10) must have green colour.

6.4.1 Exhaust valve

Item 2	Length	Tolerance
Exhaust Valve	36,5 mm	+0,20 mm -0,30 mm
Width of Collar	4,8 mm	+0,30 mm -0,30 mm



Exhaust valves supplied uncoated (p/n 253725) or hard anodised (p/n 253721) are both legal for use. Strictly no Modifications are allowed.

6.4.2 Distance of exhaust valve flange at cylinder to piston, Cylinder ID Code 223993.

Turn crankshaft until the piston just closes the exhaust port. Insert the exhaust valve gauge (Rotax 277030) as shown in the picture until it stops at the flange.

At the contact area between exhaust valve gauge (Rotax 277030) and the flange of the cylinder, a feeler gauge 0,05 mm may not fit between the gauge and the flange.

The measurement must be performed outside the exhaust valve contact area indicated in red.



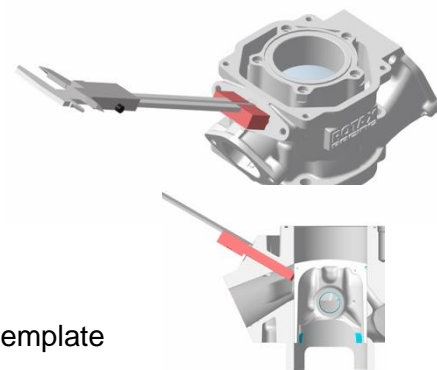
6.4.3 Distance of exhaust valve flange at cylinder to piston, Cylinder ID Code 413531.

Turn crankshaft until the piston just closes the exhaust port. Insert the exhaust valve gauge (Rotax 277032) as shown in the picture until it stops at the flange.

Measure the distance from the end of the gauge to the stopper surface of the cylinder.

This measurement must not exceed 25,0mm

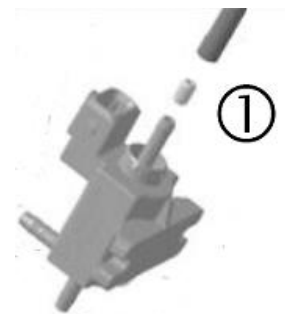
Measurement has to be done on both sides up and down, turn the template by 180 degrees.



6.4.4 Impulse nozzle:

Fitting an original impulse nozzle (1) into the pressure hose is an allowed adjustment.

The direction of the impulse nozzle inside the pressure hose is free.



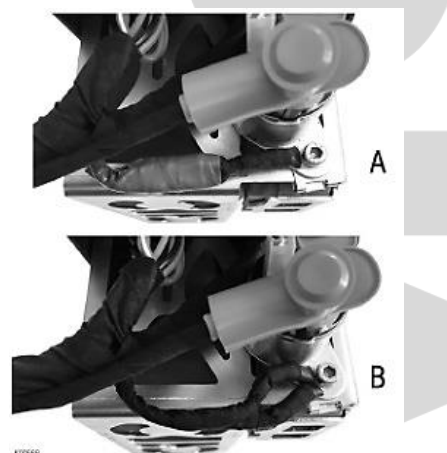
6.4.5 Exhaust valve settings

The electronic timed exhaust valve offers two different settings (A or B) for the opening of the exhaust valve.

(A)...additional ground cable not connected

(B)...additional ground cable connected

Both settings are legal to be used.



6.5 IGNITION SYSTEM

Digital battery ignition system, variable ignition timing, no adjustments Possible.

6.5.1 Spark plug

125 Micro MAX and 125 Mini MAX:

Spark plug: NGK GR8DI or NGK GR9DI

Electrode gap (maximum): Pin gauge 1,20 mm must not fit in between the two electrodes.

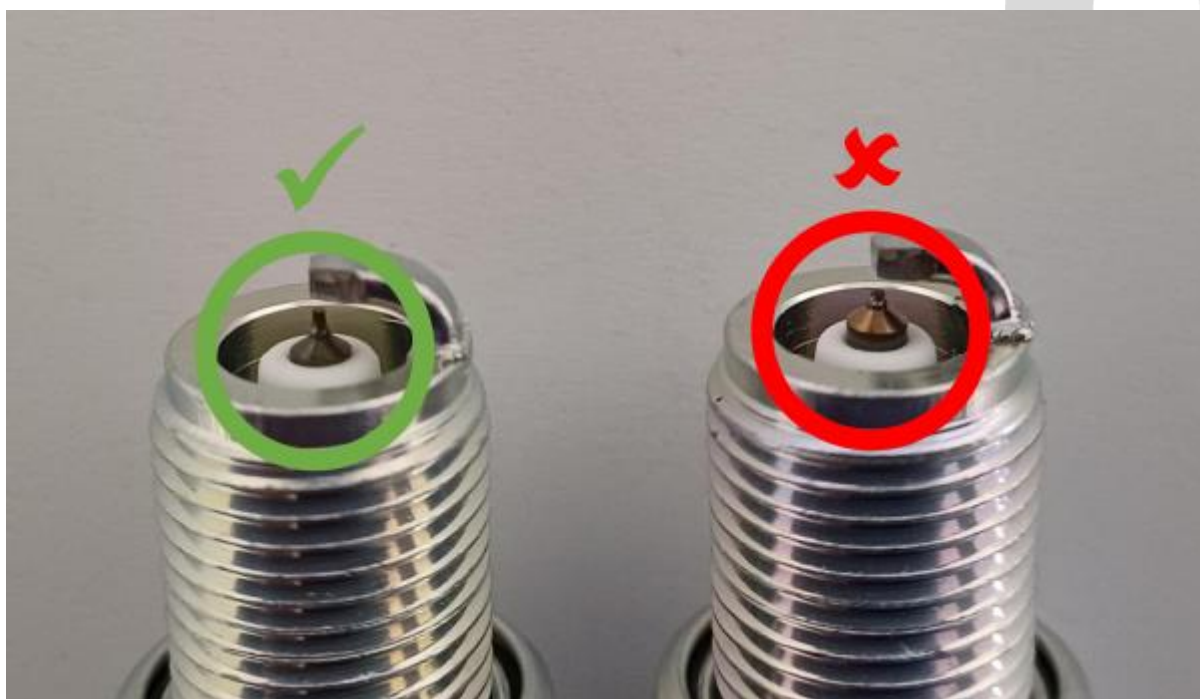
125 Junior MAX, 125 Senior MAX:

Spark plug: NGK GR8DI or NGK GR9DI

Electrode gap (maximum): Pin gauge 1,00 mm must not fit in between the two electrodes.

For all classes: It is only allowed to use the NGK GR8DI or NGK GR9DI as identified in the picture below on the left side and marked by the green circle.

The aftermarket part marked red circle with the extended electrode is strictly forbidden for use.



6.5.2 Spark plug caps

Three versions of the spark plug cap are legal to be used.

Red or black, marked NGK or ROTAX



Version 1.



Version 2.



Version 3.

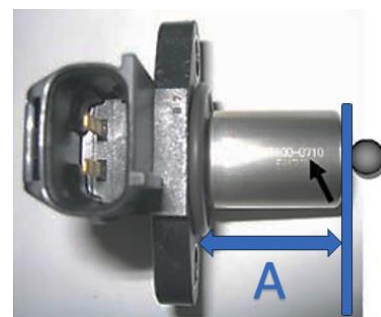
6.5.3 Pick-up

The marking of the pick-up must show the following numbers in the first line 029600-0710.

A steel ball (diameter 3-5 mm) placed on circular surface of the sensor must stay in the centre of the circular surface.

The length from the sealing face / surface to the end of the pick-up as defined in the picture (A) must not exceed 26.3mm. Measurement must be completed with gaskets removed.

Signs of grinding or removal of material on the sealing face is strictly forbidden.



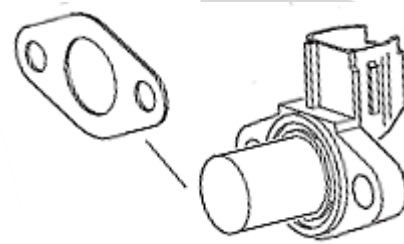
Mounting the pick-up to the crankcase with a (1) gasket additional (431500) to the original rubber sealing ring of the pick-up, **is mandatory** for all engines not using the original machined pick-up flange type with casting codes 6211885 (ignition sensor side).

Additional gasket Rotax 431500 used must have a minimum thickness greater than = 0,5 mm.

Maximum two gaskets (Rotax 431500) are allowed to be fitted.

Fitting Position of the additional gasket(s):

Crankcase – rubber sealing ring – additional gasket(s) – pick-up.



Note:

It is not necessary to install any additional gasket/s with the exception of the rubber sealing ring on original machined pick-up flange type with casting codes 6211885 (ignition sensor side) for the pick-up sensor.

6.5.4 Ignition System

Dellorto ignition system is legal to be used only.

Race officials may request at any time that the competitor replaces the electronic box (ECU) with another unit provided by the race administration.

The visual appearance of the ignition coil must be identical with the pictures.

Ignition coil must show 2 pins at the terminal.

The ignition coil is still legal to be used also if one or both stickers are faded or removed.

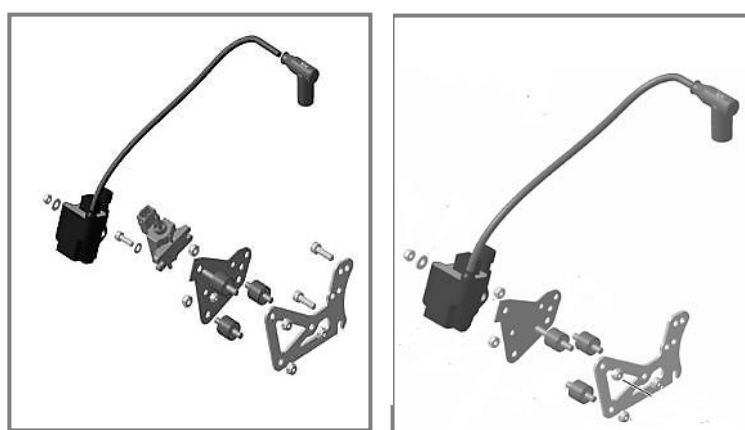
Minimum length of the high-tension cable of the ignition coil is 210 mm (from outlet of ignition coil to outlet of spark plug connector = visible length of cable).

Ignition coil (same for all engines) with separate electronic box (ECU, specific for every engine).

Ignition coil and ECU (and magnet valve, for 125 Senior MAX) must be fitted with all components according to the illustrations below.



In case the mounting bracket (125 Micro MAX, 125 Mini Max, 125 Junior MAX and 125 Senior MAX only) conflicts with a chassis component, the additions of 2 spacers, one per mounting hole, with a maximum thickness of 20 mm between the mounting bracket and the gearbox cover is allowed.



6.5.5 ECU

The electronic control unit (ECU) is labelled with stickers and is still legal also if the sticker is unreadable or disappeared.

125 Micro MAX:	"666815"
125 Mini MAX:	"666818"
125 Junior MAX:	"666813"
125 Senior MAX:	"666815"

The ECU must be checked with the ECU tester (Rotax 276230) according to following procedure.

Disconnect engine cable harness from ECU.

Connect ECU tester cable harness to ECU.

Connect energy cable of ECU tester cable harness with the charging connector of engine cable harness.

At every connection with the battery the software version of the ECU tester will be indicated on the display for approx. 2 seconds.

The software version indicated on the display must be 2V00.

Start the test by pressing the button "✓" on the ECU tester.

After approx. 3 second the type of ECU ① that is actually tested will be indicated in the second line of the display.

After approx. 30 seconds the result ② of the test will be indicated in the first line of the display.

The ECU tester must indicate following results:

125 Micro MAX category

- ① 666815MAX
- ② !! Test OK!!

125 Mini MAX category

- ① 666818MINIMAX
- ② !! Test OK!!

125 Junior MAX category

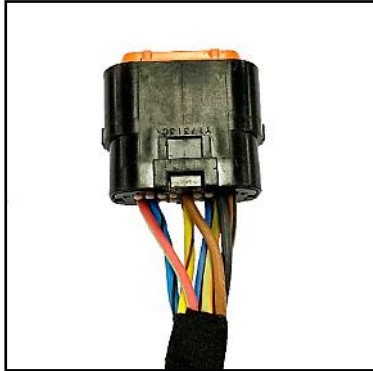



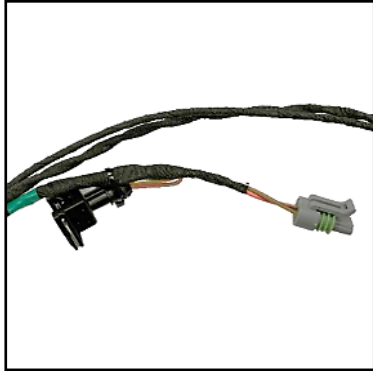
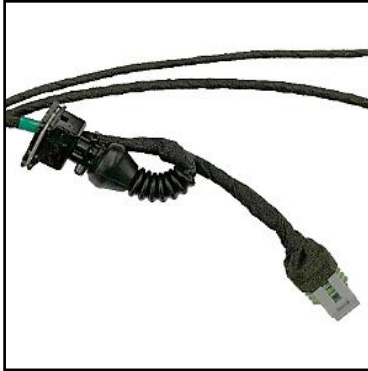
- ① 666813JNRMAX
- ② !! Test OK!!

125 Senior MAX category

- ① 666815MAX
- ② !! Test OK!!



Two versions of the wire harness are allowed to be used. The differences between the two versions can easily be identified by the key points listed.

	Wiring Harness (666 835)	Wiring Harness (666 836)
ECU Connector		
Charging Connector		
Solenoid Connector		

6.7 INTAKE SILENCER

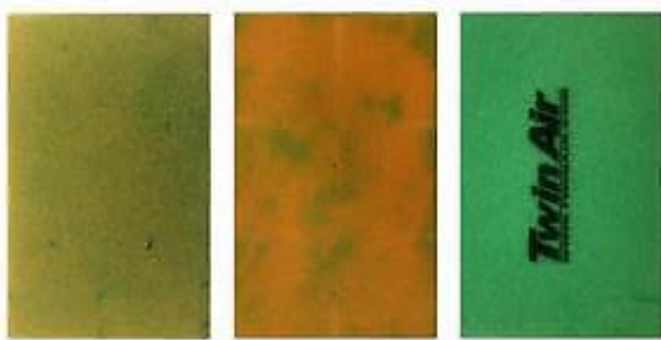
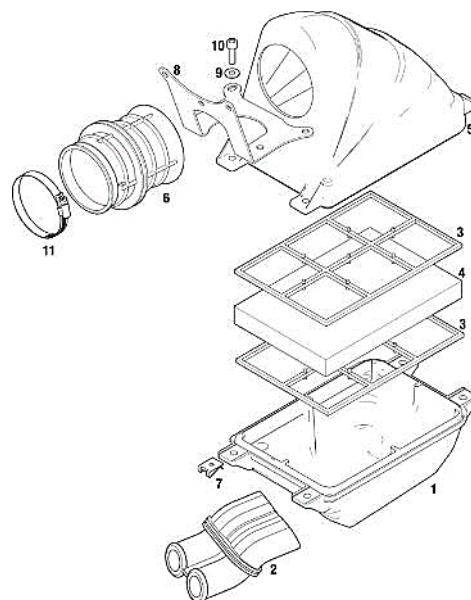
Intake silencer with integrated, washable air filter must be used with all parts as shown at the illustration and has to be mounted on the support bracket with two screws (in dry and wet condition).

Intake silencer tube (Pos 2) and carburettor socket (Pos 6) are marked with the wording "ROTAX". Intake silencer case bottom is marked on the inside with "225015".

Intake silencer case, top is marked on the inside with "225025".

Two versions of original air filters (Pos4) are legal to be used.

Double layer air filter (green/orange), double layer air filter (green/dark green) marked "Twin Air". Depending on the degree of oil-lubrication colours may alter slightly or the surface becomes stained (see examples).



Air filter (Pos 4) must be installed as shown in the illustration between the two holders (Pos 3) and must cover the complete area of the intake silencer case bottom (Pos 1).

During wet condition, it is not allowed to attach anything to the air box to protect the air inlet from water spray.

6.8 CARBURETTOR

Dellorto carburettor, housing must show the cast wording "VHSB 34"

Carburettor housing is stamped with "XS".

The complete inlet bore of the carburettor must show a cast surface. (See pictures below for reference)



Optional carburettor plug screw marked "ROTAX" (ROTAX part no. 261 030) is legal to be used.

The two vent fittings must be connected with the original air vent hose min 155 mm (Rotax 260260). The location of the opening has to be placed at the rear side of the carburettor

Settings of the carburettor adjustment screws (idle and idle air) are free.

The Position of the jet needle is free.

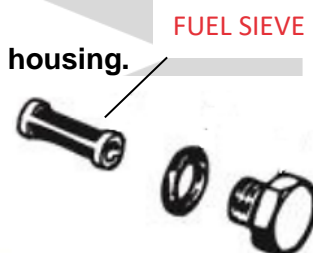
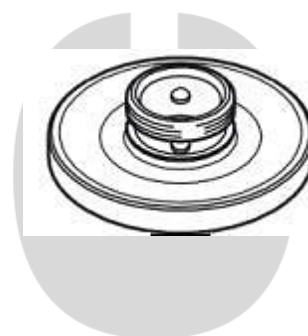
All jets must be correctly seated and securely fitted at any time (tightened)!

A minimum required size of main jet may be determined for each race event by a "Bulletin".

The venturi holes of the carburettor insert can show signs of a CNC control machining.

Carburettors insert maybe used with 1 or 2 gaskets placed between the insert and the body of the carburettor.

Carburettor can be used with and without fuel sieve in the carburettor housing.



The height of the two arms of the float lever must be within the slot of the carburettor gauge (Rotax 277400) by their normal weight measured at carburettor housing without gasket in reverse upright Position.

Needle valve assembly stamped "150"

A pin gauge measuring 1.56mm must not pass through the bore of the needle valve



Needle valve must be marked with diamond symbol" INC" only.

Start jet is stamped with the digits "60".

Any Dellorto main jet number even if not offered from Rotax is legal to be used.

Carburettor slide shows digits "45" in casting.

Jet needle must be stamped with "K57".

Two floats marked "4,0 gr" are legal to be used only

Needle jet stamped with" DP267"



	Length	Tolerance
Total Length	51,0 mm	+0,50 mm -0,50 mm

	Length	Tolerance
Bottom section	33,0 mm	+0,45 mm -0,45 mm

	Diameter	Tolerance
Top Bore	2,67 mm	+0,10 mm -0,10 mm



Idle jet

Idle jet has to be stamped with 60.

Plug gauge 0,65 mm may not enter the bore

(Use jet gauge set Rotax part no. 281 920)



Idle emulsion tube

Idle emulsion tube has to be stamped with 45.

Plug gauge 0,50 may not enter the central bore.

(Use jet gauge set Rotax part no. 281 920)



Atomizer

Remove atomizer from carburettor body by means of venturi tool set (Rotax part no. 676 034)

	Measurement	Tolerance
Total Length	23,75 mm	+0,35 mm -0,35 mm



	Measurement	Tolerance
Cylindrical Length	15,75 mm	+0,25 mm -0,25 mm



	Measurement	Tolerance
Cutaway Dimension	5,8 mm	+0,30 mm -0,30 mm



	Measurement	Tolerance
Cross bore Dimension	5,0 mm	+0,15 mm -0,15 mm



Carburettor insert must show stamping: "12,5"



Angular bore of carburettor inserts

Plug gauge 0,60 may not enter the bore

(Use jet gauge set Rotax part no. 281 920).



Vertical bore of carburettor inserts

Plug gauge 1,30 may not enter the bore

(Use jet gauge set Rotax part no. 281 920).



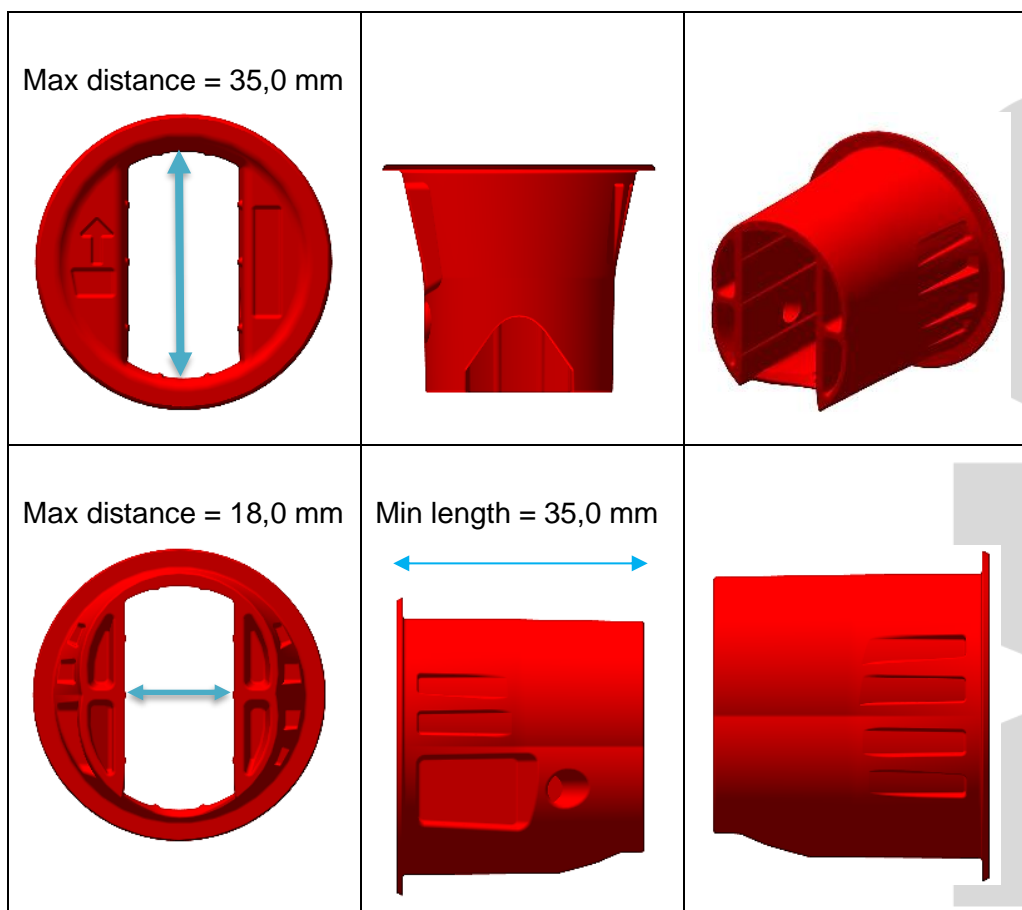
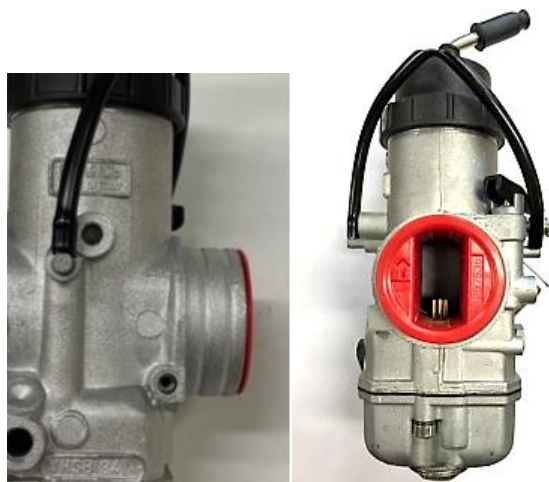
125 Micro MAX and Mini MAX:

The throttle body restrictor must be fully inserted into the carburettor body and in the correct orientation at all times.

(See picture for reference).

ROTAX part number: 267536

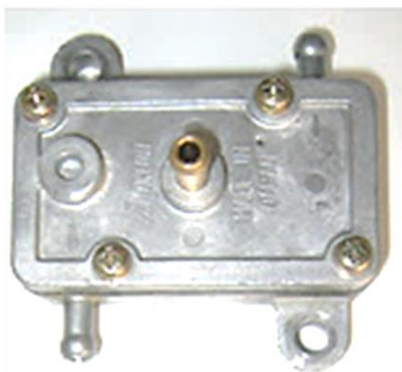
No modifications are allowed, the ribbed surface on the inlet is to help ensure dimensions have not been modified.



6.9 FUEL PUMP, FUEL FILTER

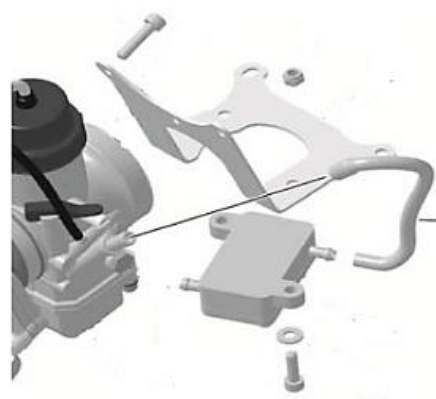
MIKUNI diaphragm pump (see picture left) must be used in the 125 Micro MAX, 125 Mini MAX and 125 Junior MAX categories.

For 125 Senior MAX it is permitted to use the MIKUNI or Dellorto diaphragm pump (see picture right).



It is advised and permitted to use fuel hose clamps on all fuel and pulse lines to provide a secure seal.

Fuel pump must be mounted on the bottom side of the support bracket (p/n 251719 or 251720) for the intake silencer (See illustration).



6.10 FUEL FILTER

Two versions of original fuel filter are legal to be used (see pictures).

A fuel filter is mandatory to be installed. The fuel filter must be mounted between the fuel tank and the fuel pump.

Except the fuel line, the fuel pump and the original fuel filter no additional parts are legal to be mounted between fuel tank and carburettor.



6.11 RADIATOR

The removal of the thermostat from the cylinder head cover is an allowed modification.

Radiator must be mounted with all components as shown in the respective illustration.

To apply tape around the radiator is an allowed modification to control the air flow through the radiator.

Tape may not be removed from the radiator during operation on the track.

Any other non-original device to control the air flow through the radiator is prohibited.

The dimensions of the radiators are for reference purposes only.

125 Micro MAX and 125 Mini MAX:

Two different versions as shown in the illustrations are legal to be used.

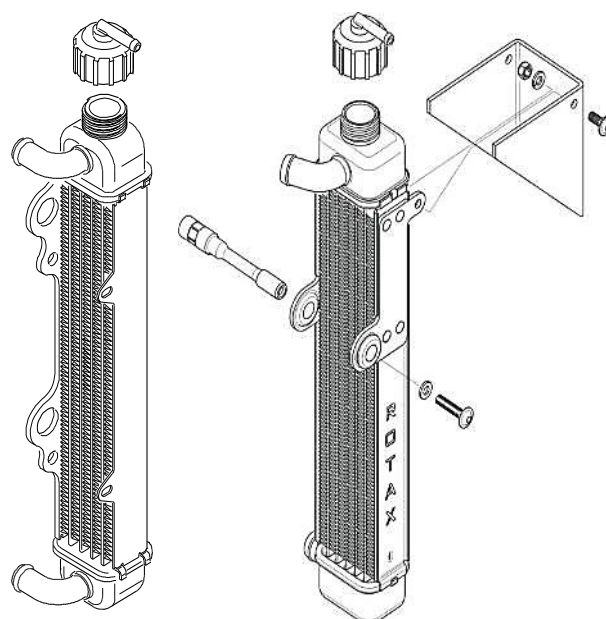
Cooling area:

Height: 280 – 300 mm

Width: 58 – 62 mm

Thickness of radiator: 30 – 34 mm

To remove the original flap is an allowed modification.



125 Junior MAX and 125 Senior MAX:

The radiator must be mounted on the right side of the engine.

Three different versions as shown in the illustrations are legal to be used.

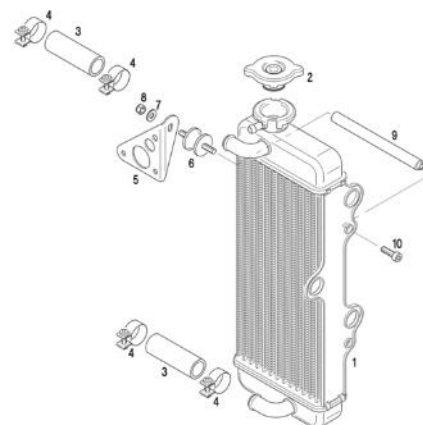
Version 1

Cooling area:

Height: 290 mm

Width: 133 mm

Thickness of radiator: 32 mm



Version 2

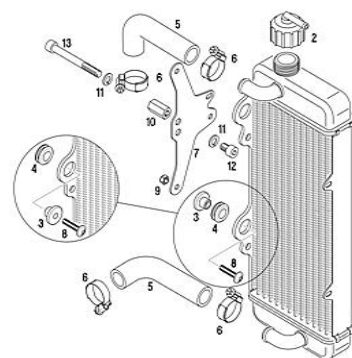
Cooling area:

Height: 290 mm

Width: 133 mm

Thickness of radiator: 32 mm

The support plate (Pos 7) enables two different mounting Positions (height) of the radiator. Both mounting Positions are legal to be used.



Version 3

Cooling area:

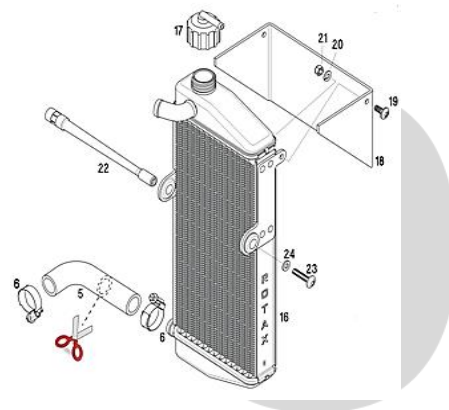
Height: 290 mm

Width: 138 mm

Thickness of radiator: 34 mm

Radiator must be stamped on the side with the wording "ROTAX".

To remove the original flap is an allowed modification.



6.12 ENGINE COOLANT

Plain water without any additives must be used.



6.13 EXHAUST SOCKET (RESTRICTOR)

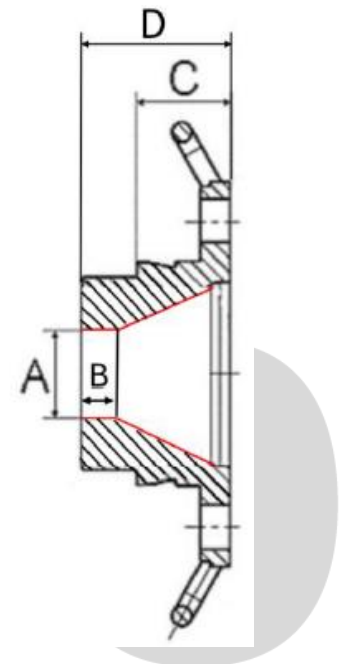
125 Micro MAX:

Just exhaust sockets with gasket ring are legal to be used (p/n 273197).

The gasket ring must be as supplied. A complete ring with no splits, breaks or excessive wear.

The internal profile of the exhaust socket must be checked with a 16mm ball bearing which cannot pass through. A specific template gauge for the profile may be introduced via a bulletin.

	Measurement	Tolerance
A	16,00mm	+0,00mm
		-0,35mm
B	6,00mm	+0,60mm
		-0,40mm
C	16,00mm	+0,50mm
		-0,30mm
C – Incl gasket	17,50mm	+0,60mm
		-0,70mm
D	29,50mm	+1,00mm
		-0.60mm



125 Mini MAX:

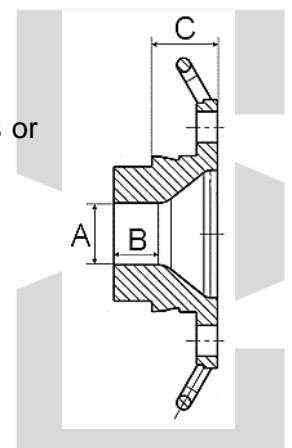
Just exhaust sockets with gasket ring are legal to be used (p/n 273196).

The gasket ring must be as supplied. A complete ring with no splits, breaks or excessive wear.

Diameter (A) must apply for a length (B) of at least 12 mm.

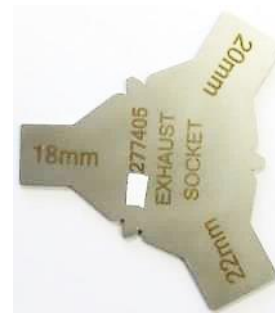
Maximum inner diameter (A) of exhaust sockets is: 22.20 mm

The measurement (C) must be at least 18,5 mm.



The internal profile of the exhaust socket must be checked with the template, (Rotax p/n 277405).

Fit the template (**125 Mini MAX** "22 mm") as far as Possible into the exhaust socket (without gasket, carbon deposits removed). There must be a constant crack light between the profile of the exhaust socket and the profile of the template.

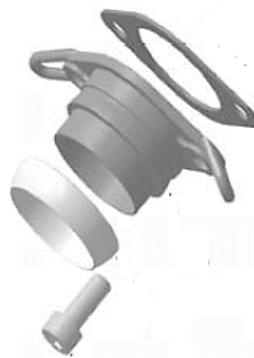
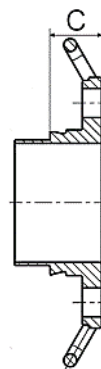


125 Junior MAX & 125 Senior MAX:

Only Rotax part no. 273190 must be used.

The gasket ring must be as supplied. A complete ring with no splits, breaks or excessive wear.

The measurement (C) must be at least 15,5 mm.



Two version of exhaust socket (p/n 273190) are permitted (see examples below)



6.14 EXHAUST SYSTEM

The use of maximum 4 pieces of original Rotax exhaust springs, to fix the exhaust system to the cylinder is allowed. (a “safety wire” in the exhaust flange or silencer area is not allowed).

Original exhaust system as supplied by Rotax is mandatory to be used for the relevant class.

Welding at the exhaust system is only allowed in the case of a repair. Only repairs that return the components to its original shape or form are allowed.

Allowed modifications on the original exhaust systems are:

- Replacing the original rivets of the silencer end cap by 4 mm metric screws and corresponding locking nuts. The 3 x fixations (rivets, bolts and locking nuts) must be always secured tight to ensure a sealing between the perforated tube and exhaust system. The perforated tube must be fully inserted into the exhaust system (see top, right picture for reference) External protrusion of the outer sealing ring of the perforated tube is forbidden. (Indicated by the red arrow)
- If the event requires the Exhaust / Perforated tube to be sealed, the seal must be passed through a 4th hole (maximum 4mm diameter). The hole must be in a position that avoids the leaking of exhaust gasses as indicated in the picture on the right. The perforated tube must be always secured tightly to the exhaust at 3 points.
- Replacing the isolating mat (just one original isolating mat may be fitted) inside the silencer and the silencer end cap with perforated tube by original Rotax spares parts.

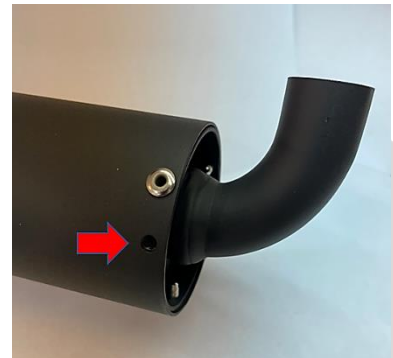
▪ 125 Micro MAX	ROTAX part number 297982
▪ 125 Mini MAX	ROTAX part number 297985
▪ 125 JNR MAX	ROTAX part number 297982
▪ 125 SNR MAX	ROTAX part number 297982

Note

For post-race technical scrutineering checks on the exhaust isolating mat, only the used weight is to be controlled.

The exhaust isolating mat new size and weight specifications can only be applied for pre-race / event technical checks against new material prior to installation and sealing of the exhaust system, if specified by the event /series organiser.

- Welding a socket (in a distance of 50-80 mm from the ball joint) on the top of the exhaust system for measuring the exhaust gas temperature.
- Addition extra elements after the original silencer for further noise reduction.



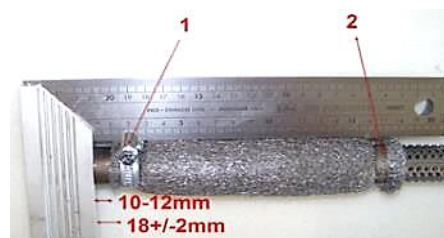
Additional to the standard isolation mat a steel isolation mat (p/n 297983) with the square dimension of 165 +10 mm is legal for use in Junior & Senior category's only (not mandatory) to be assembled underneath the standard isolation mat according to the illustration.

Clamp (1) must be fitted at a distance of 18+/-2mm, measured from the end of the tube.

Clamp (2) must be fitted at the end area of the steel isolation mat.

The measurement 10-12 mm from the end of the perforated tube to the beginning of the steel isolating mat is a specification for assembly purpose only!

Both clamps (1 and 2) are mandatory to be fitted and tightened.



6.15 125 MICRO MAX & 125 MINI MAX

A specific Exhaust system has to be used:

125 Micro MAX - ROTAX Part number 273136

125 Mini MAX - ROTAX Part number 273137 or 273138

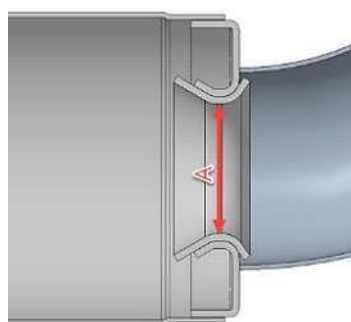
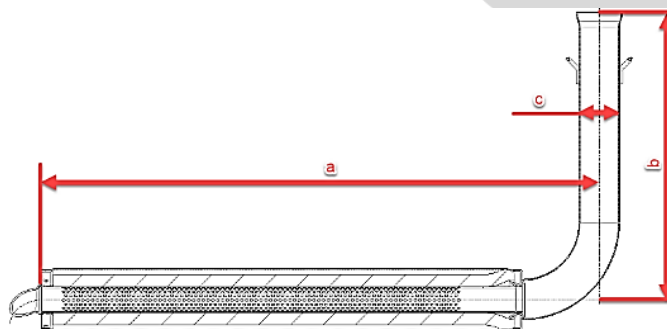
The Exhaust external body is a common component to Mini MAX, but with alternative internal components (Inserts).

The silencer must be mounted in a Position where the direction of the 90° elbow outlet (direction of the hot exhaust gasses) does not harm any component of the chassis.

The exhaust must be mounted and secured in such a way to ensure a full sealing around the exhaust socket and the gasket ring.

The measurements in the diagram to the right are as follows:

- (a) 580 mm +/- 5mm
- (b) 299 mm +/- 5mm
- (c) 42 mm +/- 3mm



A solid flat plate measuring 28.0mm diameter and 1.5mm thick must not pass through Section "A" and A steel ball with a 26.0mm diameter must be able pass-through Section "A" in the below diagram from the inlet and through the 90-degree elbow completely. All exhaust gases must pass through section "A" at all times.

(Internal exhaust components must first be removed)

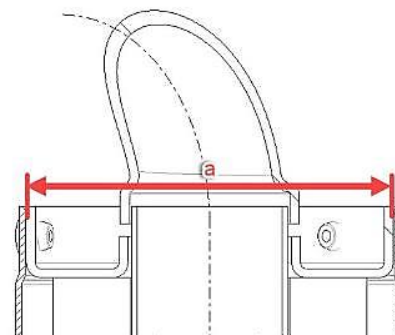
The inner measurement of the exhaust system silencer end (a) in the diagram must be a maximum of 63.0 mm.

Note

This is not a measurement of the perforated tube

The Exhaust must be installed firmly to the chassis using a rigid mount/s.

The Exhaust must be mounted to the rigid mount/s using 2 ROTAX silent blocks. (Part 660920 and or 260657 allowed).



The deflection of the 2 silent blocks is the only Exhaust movement allowed.

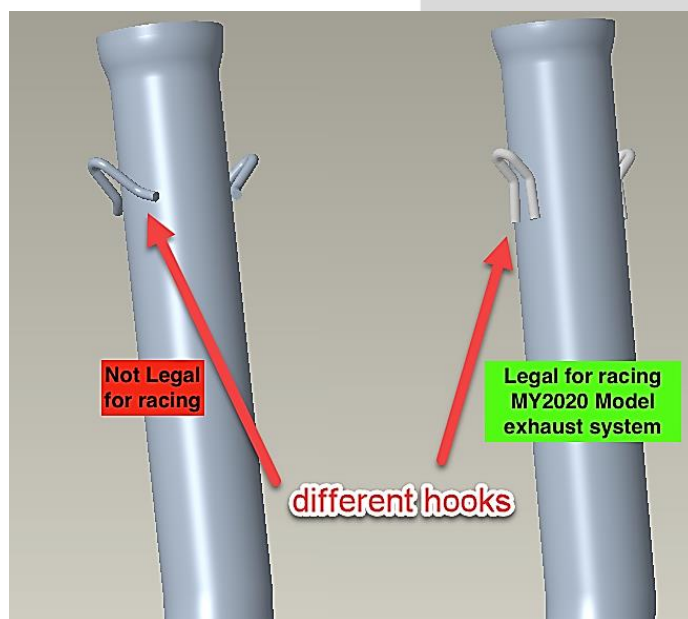
The Exhaust must be mounted in a neutral Position with no stress on the 2 silent blocks.

Note

The only exhaust system allowed for racing in the 125 Micro and 125 Mini MAX category's is the MY2020 version.

The exhaust has 3 clear visual differences to identify the MY2020 version.

1. Exhaust hooks
2. Connecting socket / ball joint connect at manifold
3. Wall thickness of the exhaust system is 1.0mm (older exhaust system which is not allowed for racing has a wall thickness of 1.5mm)

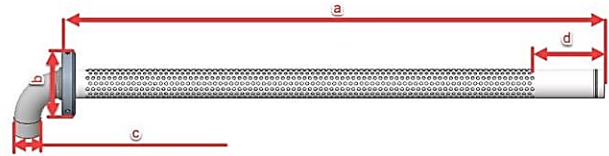


125 Micro MAX Perforated tube & Isolation Mat

Perforated Tube ROTAX part number: 273212

The measurements in the diagram below are as follows:

- (a) at least 498 mm
- (b) minimum outside diameter of 61 mm
- (c) maximum outside diameter of 26 mm
- (d) minimum length 63 mm



The measurement in the diagram to the right is as follows:

- (a) minimum outside diameter of 26.0mm



The only legal Isolation matting for 125 Micro MAX is:

ROTAX part number 297982

New size minimum

New weight

Used weight (old)

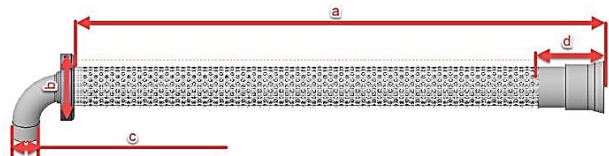
Measurement	Tolerance
480 x 270 mm	+10 mm
	-10 mm
207 Gram	+31 Gram
	-31 Gram
245 Gram	+105 Gram
	-105 Gram

125 Mini MAX Perforated tube

ROTAX Part number 273211, 273137 or 273213

The measurements in the diagram below are as follows:

- (a) at least ~~481mm~~ 480mm
- (b) minimum outside diameter of 61 mm
- (c) maximum outside diameter of 26 mm
- (d) at least 63 mm





Note

Mini MAX perforated tube has a stamped ID marker "X " (273211) or "O" (273213) visible externally.

Note

The fine metal mesh must cover all the small holes on the perforated tube

The only perforated tube allowed is the perforated tube with the circle supported by 3 linking points (when looking into the tube).

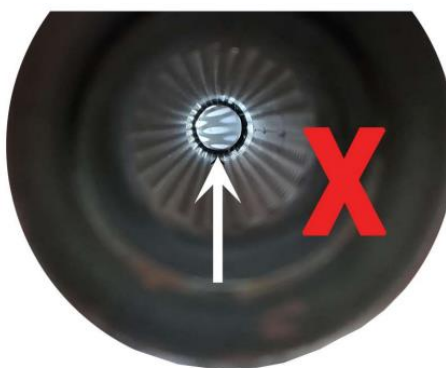
The perforated tube with the dome circle is not allowed.

See pictures below:

Legal to use



Not legal to use



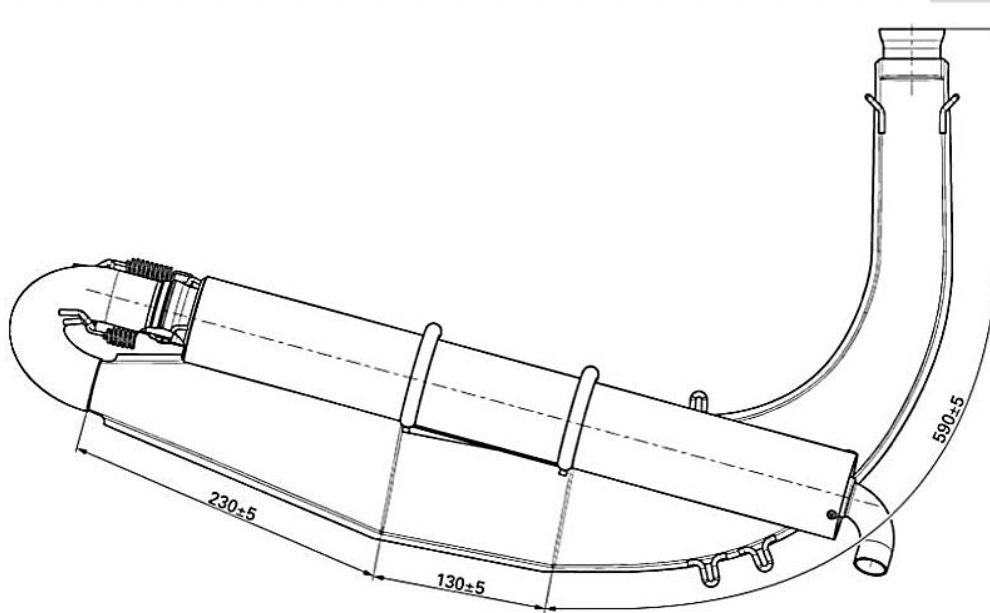
The only legal Isolation matting for 125 Mini MAX is:

ROTAX part number 297985	Measurement	Tolerance
New size minimum	490 x 180 mm	+10 mm
		-10 mm
New weight	141 Gram	+22 Gram
		-22 Gram
Used weight (old)	230 Gram	+120 Gram
		-120 Gram

6.16 JUNIOR MAX & 125 SENIOR MAX EXHAUST

The silencer must be mounted in a Position where the direction of the 90° elbow outlet (direction of the hot exhaust gasses) does not harm any component of the chassis.

The gasket ring must be as supplied. A complete ring with no splits, breaks or excessive wear.



The only legal Isolation matting for 125 Junior and 125 Senior MAX is:

ROTAX part number 297982	Measurement	Tolerance
New size minimum	480 x 270 mm	+10 mm
		-10 mm
New weight	207 Gram	+31 Gram
		-31 Gram

Used weight (old)

245 Gram

+105 Gram

-105 Gram

Race officials may request at any time that a competitor in any class replaces an exhaust component or complete exhaust system with another unit provided by the race administration.

----- END OF TECHNICAL REGULATION -----

