

Rotax MAX Challenge

Technical Specifications 2025

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Version 3

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

1.1 SQUISH GAP

The crankshaft must be turned by hand slowly over top dead center 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
125 Micro MAX	3-mm tin wire (Rotax 580132)	2,40 mm
125 Mini MAX	2-mm tin wire (Rotax 580130)	1,20 mm
125 Junior MAX	2-mm tin wire (Rotax 580130)	1,20 mm
125 Senior MAX / Masters	2-mm tin wire (Rotax 580130)	1,00 mm
125 MAX DD2 / Masters	2-mm tin wire (Rotax 580130)	1,30 mm

To achieve the defined minimum squish gap one spacer (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.

1.2 COMBUSTION CHAMBER INSERT

Cast identification code has to be either:

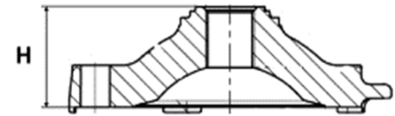
- 223389
- 223389 1
- 223389 2
- 223389 2/1
- 223389 2/2

The profile of the combustion chamber insert has to 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 has to be 28,80 mm +/- 0,2 mm.



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

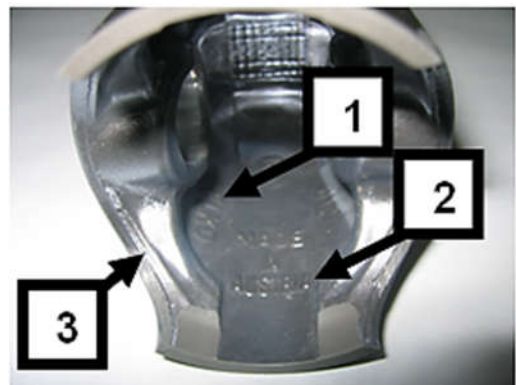


1.3 PISTON WITH RING ASSEMBLY

Original, coated, aluminium, cast piston with one piston ring. The piston has to 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



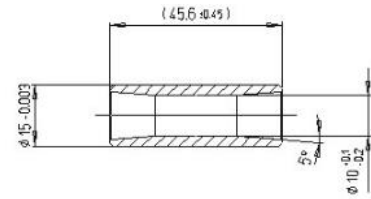
The piston ring is legal also if just parts of the marking are still visible.

1.4 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.



1.5 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).

1.5.1 Cylinder has to 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.

Cylinders marked with identification code 223994 or 413530 only are legal to be used.

From the 1st of January 2025 onwards For National, Zone or International RMC events only
Cylinders marked with identification code 413530 are legal to be used and must be marked with the "ROTAX RACING" logo in the a 125 Junior MAX categories.



125 Senior MAX:

Cylinder with one main exhaust port and exhaust valve.

Cylinders marked (cast or machined) with identification code 223993 or cast 413 531 only are legal to be used.



125 MAX DD2:

Cylinder with one main exhaust port and two side exhaust ports and exhaust valve.

Cylinder has to be marked with identification code 613933 or 613934.



CONFERENCE

1.5.2 Height of cylinder

Measured with a digital calliper min. length 200 mm.

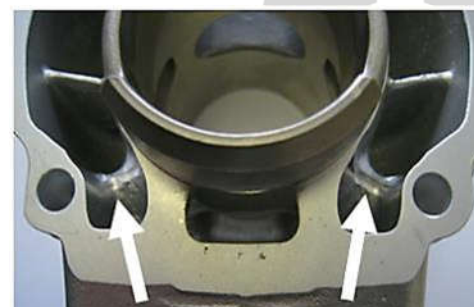
	Height	Tolerance
125 Micro MAX	87,00 mm	+0,1 mm -0,05 mm
125 Mini MAX	87,00 mm	+0,1 mm -0,05 mm
125 Junior MAX	87,00 mm	+0,1 mm -0,05 mm
125 Senior MAX / Masters	87,00 mm	+0,1 mm -0,05 mm
125 MAX DD2 / Masters	86,70 mm	+0,1 mm -0,05 mm



1.5.3 Cylinder surfaces (ID Code 223994, 223993 or 613933)

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.

Cylinders marked 223993, 223994 and 613933 the upper edge of the central boost port may show factory machining



Important

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**).



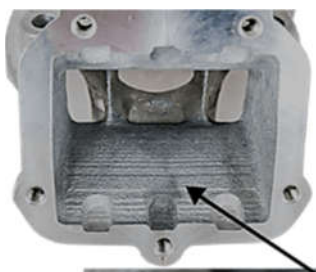
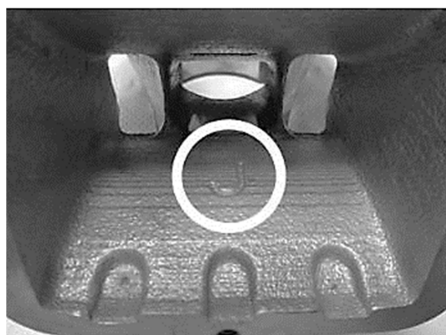
The exhaust port may show partial manual grinding done by the manufacturer to eliminate minor casting defects and/or to eliminate the NIKASIL burr at the end of the NIKASIL plating (**see above right picture**).

Single Core Cylinder:

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

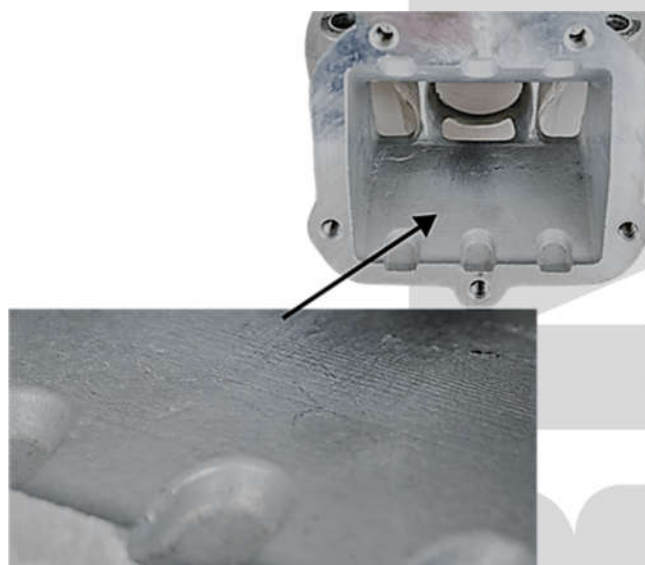
Cylinders marked 223994 and 223993 with linear texture in the inlet port show a fully CNC machined exhaust port and a fully CNC machined top edge of the central boost port.

Cylinders marked 613933 may show in the inlet port a linear texture.



Single Core Cylinder

Linear structured cast finish surface



1.5.4 Cylinder surfaces (ID Code 413530, 413531 or 613934)

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).

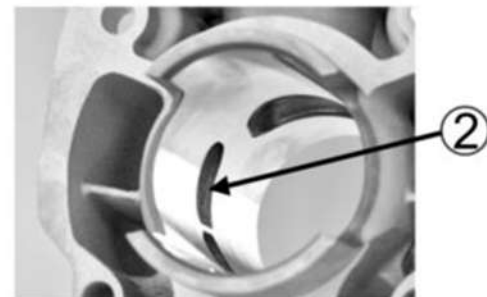
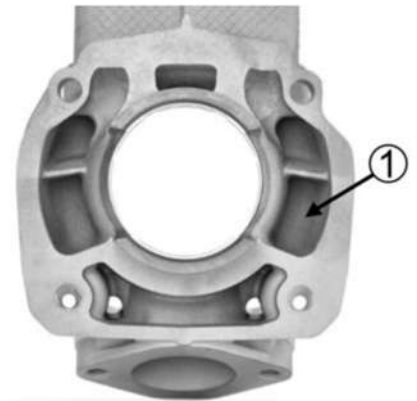
The sealing flange for the exhaust socket shows a cast finish.

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 and 613934 a NiCasil plated stop for the exhaust valve is present (3).

Any additional machining is not permitted.



1.5.5 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*.



Normal cast finish surface.

Cylinder 413530

The horizontal and vertical dimensions of the exhaust port have to be checked with the template, Rotax 676242.

Cylinder 413531

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



The template has to 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)

1.5.6 Exhaust port timing (Cylinder ID Code 223994, 223993, 613933)

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
- MAX DD2



1.5.7 Exhaust port timing (Cylinder ID Code 413530, 413531, 613934)

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 277404).

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
- MAX DD2



ON

1.6 INLET SYSTEM

1.6.1 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.

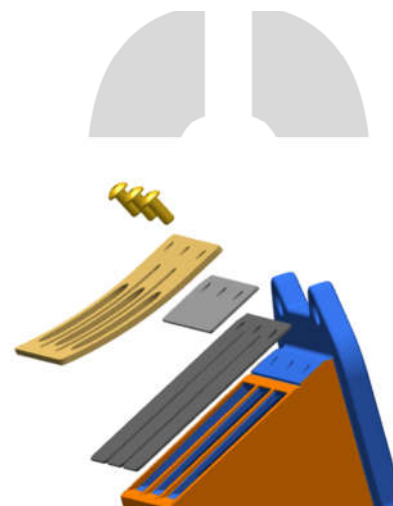


For 125 Micro MAX and 125 Mini MAX

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.

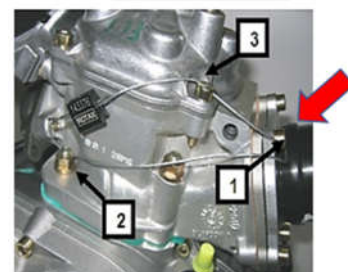


For Information only / non-tech item:

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.

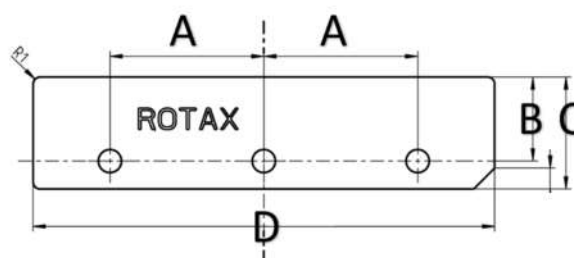


The 2 x distance plates must be engraved "ROTAX" (as per the drawing below)

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



1.6.2 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.

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

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

125 MAX DD2:

Inlet manifold marked with the identification code "267410" and the name "ROTAX" or just "267411".



1.7 CRANKSHAFT

1.7.1 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.



1.7.2 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 (+/-0,5 mm) with the corresponding edges (MAX or DD2) of the template.

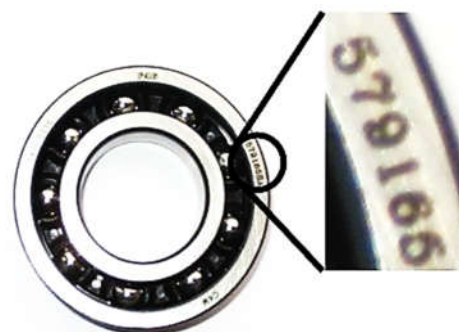


1.7.3 Crankshaft main bearings

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



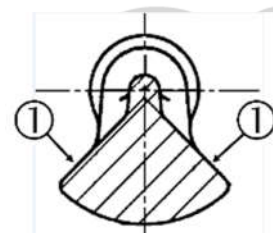
1.8 BALANCE SHAFT

Balance shaft and balance gears must be installed.

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

Balance shaft must show identification code 237944, 6237948 or 6237949.

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



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

1.8.1 2-speed gearbox (for 125 MAX DD2 only)

Primary shaft with 19 teeth for 1st gear and 24 teeth for 2nd gear.

Idle gear for 1st gear has to have 81 teeth.

Idle gear for 2nd gear has to have 77 teeth.

1.8.2 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.



125 Junior MAX, 125 Senior MAX and 125 MAX DD2

IRMCE, Continental (**Zone**) and National RMCs only black coated crankcases are legal to be used.

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

125 Micro MAX and 125 Mini MAX

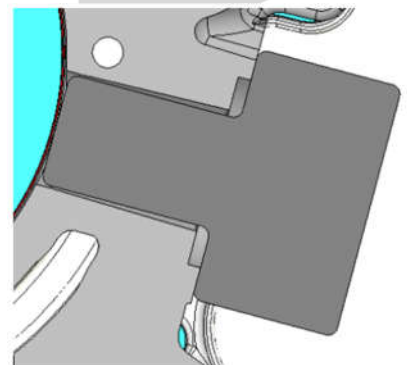
IRMCE, Continental (**Zone**) and National RMCs the only crankcases legal to be used for racing in the 125 Micro MAX and 125 Mini MAX categories will be the original machined pick-up flange type with casting codes 6211885 (ignition sensor side) and 6211893 (clutch side).

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



For 125 Micro MAX, 125 Mini MAX, 125 Junior MAX, 125 Senior MAX and 125 MAX DD2

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).**



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

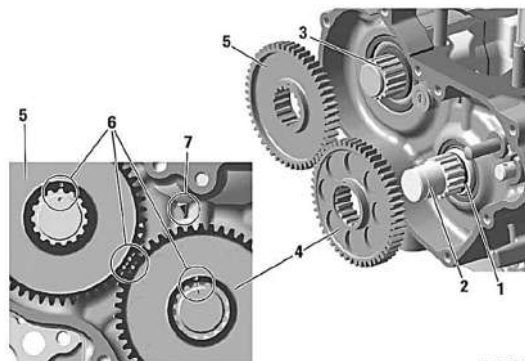
It is the responsibility of the competitor to check his equipment (**all components outside the engine seal as mentioned below**), to assure that his equipment is conforming to the technical specification below!

2.1 BALANCE DRIVE

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

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.



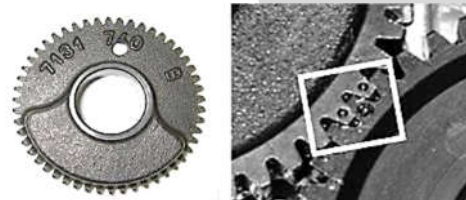
125 MAX DD2:

Balance drive gear must be fitted on crank shaft.

Balance gear must be fitted on primary shaft and must be aligned with the balance drive gear according to the instruction in the repair manual.

Version 1:

Fly weight of balance gear must show cast surface



Version 2:

Fly weight of balance gear can show machined surface.

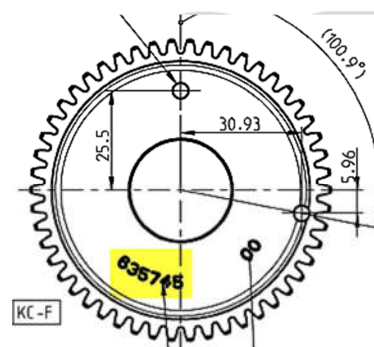
Dimension A (**widest part of balance weight**) must be either:

	Length	Tolerance
Dimension A	53,0 mm	+0,50 mm
		-0,50 mm
Dimension A	57,0 mm	+0,50 mm
		-0,50 mm



The minimum weight of a dry balance gear including bearing must not be lower than 240 grams.

Version 3:



ROTAX part number 635745 (**visible on the gear**).

Fly weight of balance gear can show machined surface.

The minimum weight of a dry balance gear including bearing must not be lower than 255,0 grams.

2.2 CENTRIFUGAL CLUTCH

2.2.1 Components

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

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.

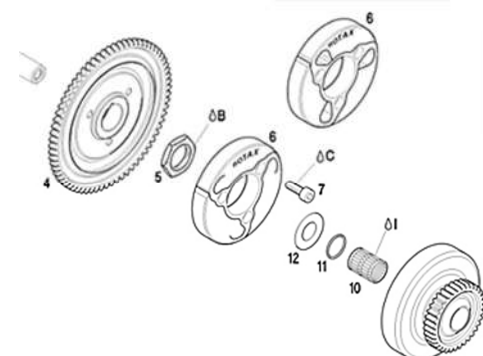
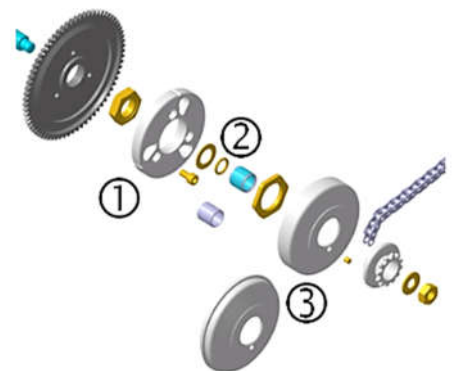
Contact area between clutch and clutch drum has to be dry at any time – no lubrication allowed.

125 MAX DD2:

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

Both versions of clutch (**item 6, with and without holes**) are legal to be used.

O-ring (**item 11**) must be fitted.



2.2.2 Clutch dimensions

Thickness of clutch shoe (A):

All MAX Engines 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):

125 Micro MAX, 125 Mini MAX, 125 Junior MAX, 125, Senior MAX: Minimum = 11,45 mm

125 MAX DD2: Minimum = 14,45 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):

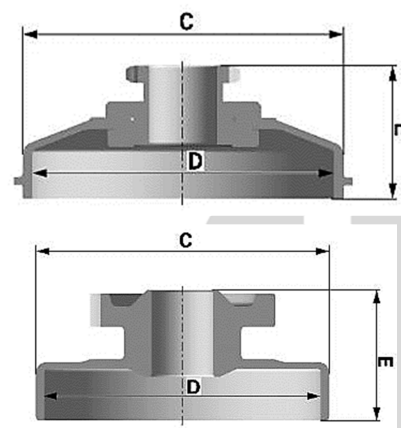
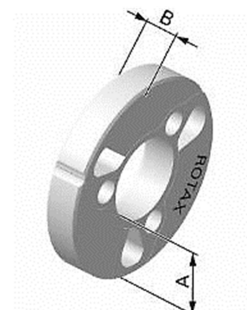
Maximum = 84,90 mm

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

125 Micro MAX, 125 Mini MAX, 125 Junior MAX, 125 Senior MAX: Minimum = 33,90 mm

125 MAX DD2: Minimum = 39,50 mm

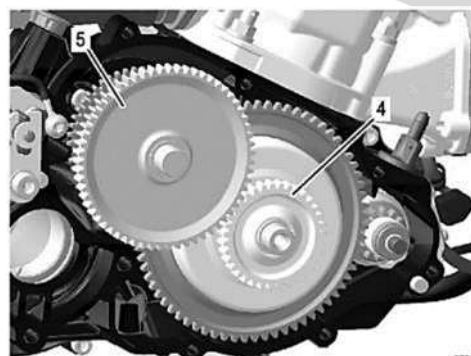


2.3 PRIMARY DRIVE (125 MAX DD2)

Original primary drive gears (4+5) of following gear ratio options must be used only.

Following combinations are legal to be used.

Drive gear	Driven gear
32	65
33	64
34	63
35	62
36	61
37	60
38	59



Note

A specific primary gear ratio may be determined for each race event by a **Bulletin**.

2.4 GEAR SHIFTING (125 MAX DD2)

The 2-speed gearbox must be operated from the steering wheel via the original Rotax paddle shift system (see illustration).

Cutting of the original aluminium shift paddles (30) or adding of non-original parts is not allowed.

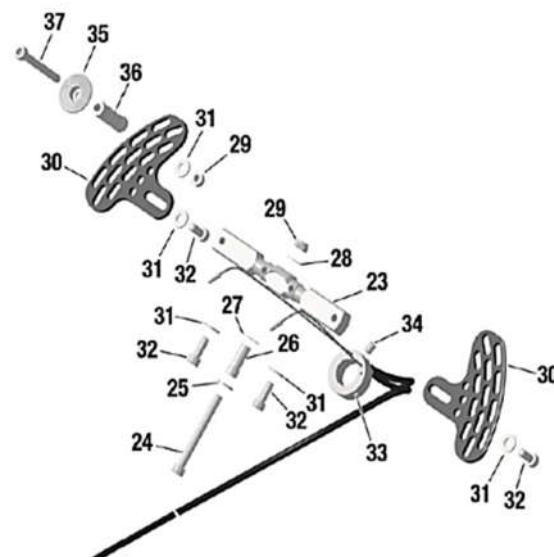
Mounting the shift paddles (30) on the bottom or top side of the whip (23) is an allowed adjustment.

Optional parts (35 - 37) can be mounted on the shift paddle (30) in any Position.

Bending the aluminium shift paddles to align them to the steering wheel is an allowed adjustment.

The whip (23) offers two connections for the cables (23) on each side for short travel or long travel. Both connections are legal to be used.

To change the connections of the cables to the whip (23) from left to right and right to left is an allowed adjustment.



2.5 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	DD2
Ignition system Dell'orto	✓	✓	✓	✓	✓
Exhaust valve, electronically timed	-	-	-	✓	✓
Carburettor XS	✓	✓	✓	✓	✓
Exhaust system, EVO	✓	✓	✓	✓	✓

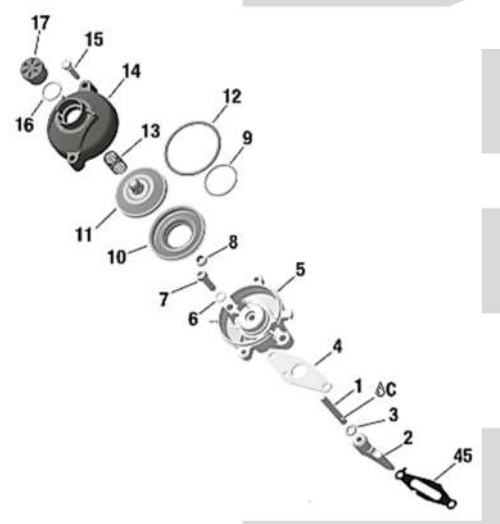
2.6 EXHAUST VALVE (125 SENIOR MAX AND 125 MAX DD2)

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

The cylinder protection plate (45) must be installed and must have a minimum thickness of 0,08mm with cylinder ID 223933 and 613933.

It is Possible for the cylinder protection plate (45) to show signs of wear or damage.

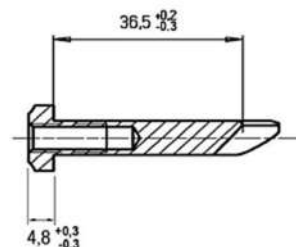
Bellow (10) must have green colour.



For the “ROTAX RACING” Cylinder ID Codes 413531 and 613934 it is not required to use the cylinder protection plate (45).

2.6.1 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



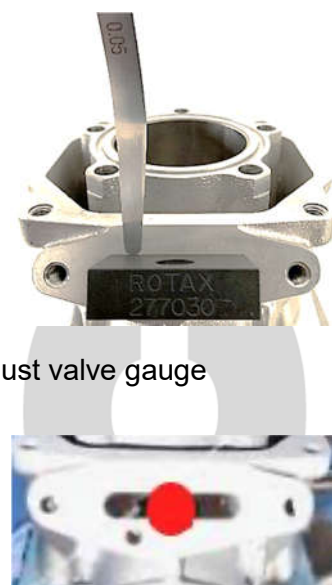
Uncoated or as supplied hard anodized exhaust valve are both legal for use. Strictly no Modifications are allowed.

2.6.2 Distance of exhaust valve flange at cylinder to piston, Cylinder ID Code 223993 and 613933.

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.



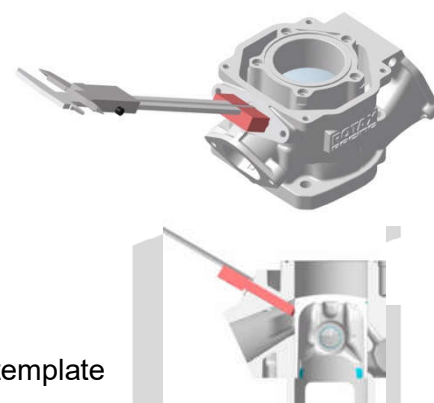
2.6.3 Distance of exhaust valve flange at cylinder to piston, Cylinder ID Code 413531 and 613934.

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

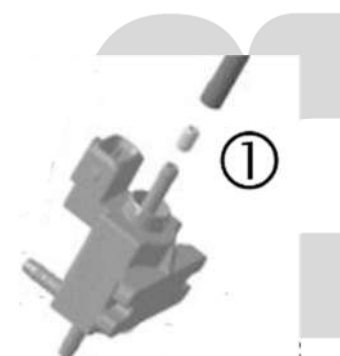
Measurement has to be done on both sides up and down, turn the template by 180 degrees.



2.6.4 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.



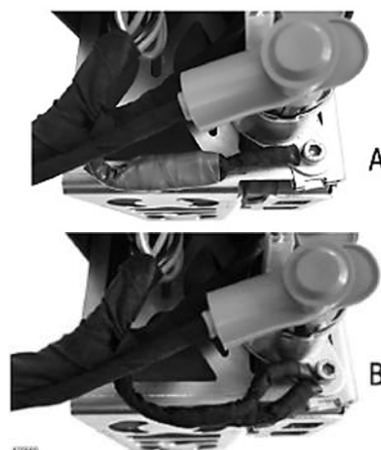
2.6.5 Exhaust valve settings

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.



2.7 IGNITION SYSTEM

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

2.7.1 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.

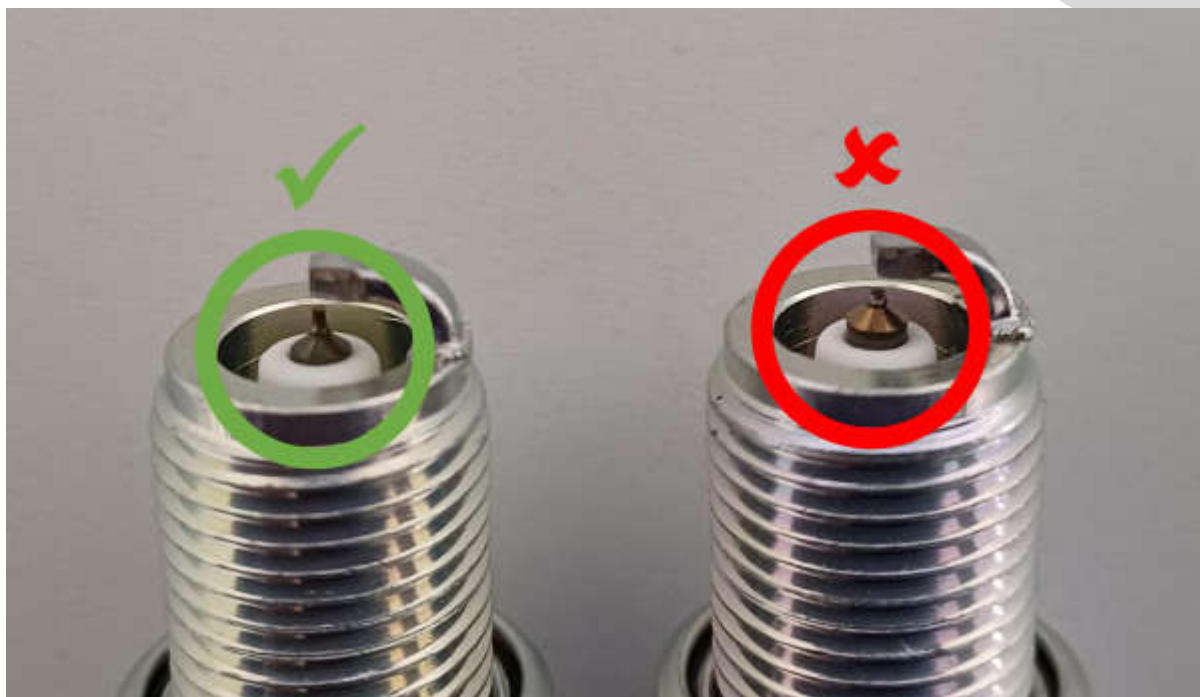
For the 125 MAX DD2:

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 categories: 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.



2.7.2 Spark plug caps

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

Red, marked NGK or ROTAX



Version 1.



Version 2.

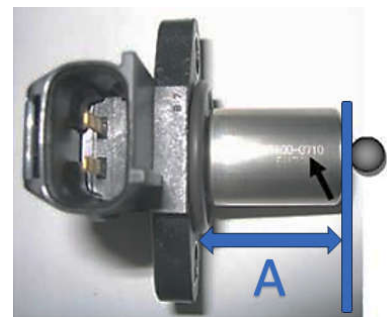
2.7.3 Pick-up

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 center 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.



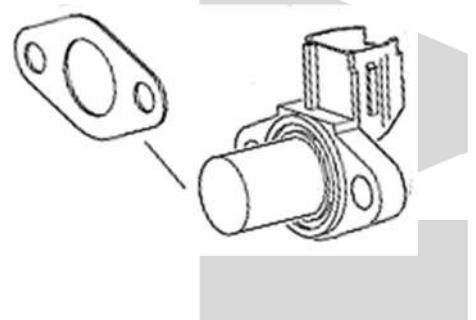
Mounting the pick-up to the crankcase with a (1) gasket additional (431500) to the original rubber sealing ring of the pick-up, **is mandatory** for all engines not using the original machined pick-up flange type with casting codes 6211885 (ignition sensor side).

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.

2.7.4 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).

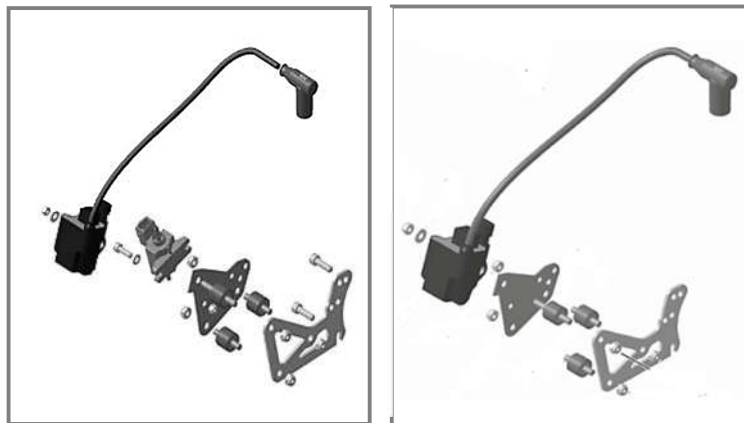
Ignition coil (same for all engines) with separate electronic box (ECU, specific for every engine).

Ignition coil and ECU (and magnet valve, for 125 Senior MAX and 125 MAX DD2 only) must be fitted with all components according to the illustrations below.

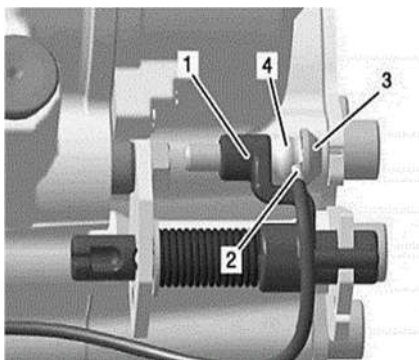
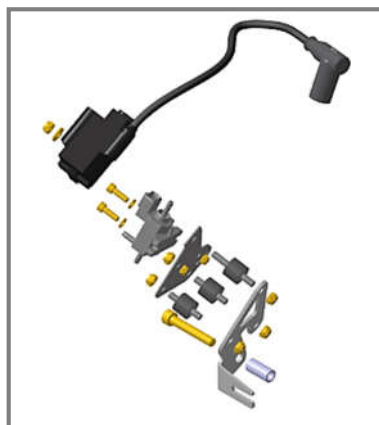


125 Micro MAX, 125 Mini MAX, 125 Junior MAX and 125 Senior MAX:

In case the mounting bracket (125 Micro MAX, 125 Mini Max, 125 Junior MAX and 125 Senior MAX only) is in conflict 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.



125 DD2 MAX / Masters: The electrical contact at the shift assembly must be connected, as per the picture below.

**125 MAX DD2:**

2.7.5 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"
125 MAX DD2:	"666816"

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!!

125 MAX DD2 category

- ① 666816MAXDD2
- ② !! Test OK!!



2.8 BATTERY, BATTERY FIXATION AND WIRING HARNESS

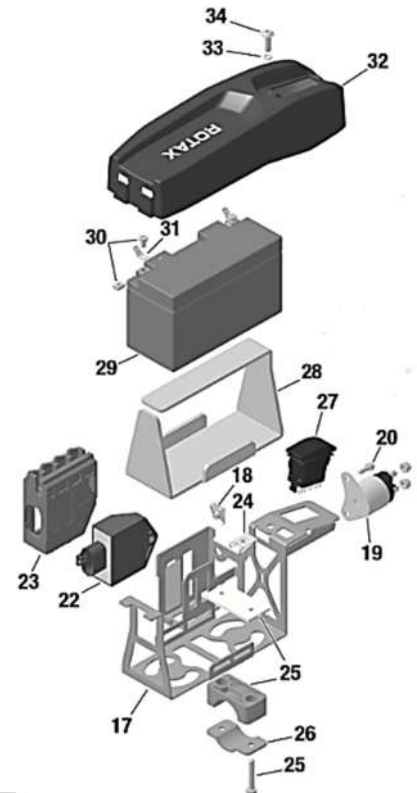
Original batteries with following specification only are legal to be used.

YUASA YT7B-BS (with and without Rotax branding)





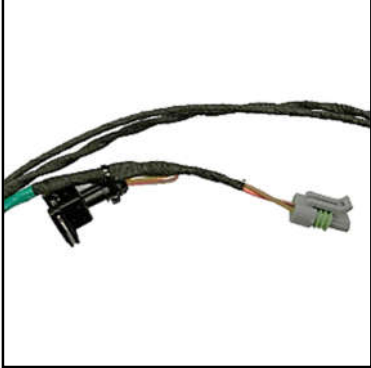
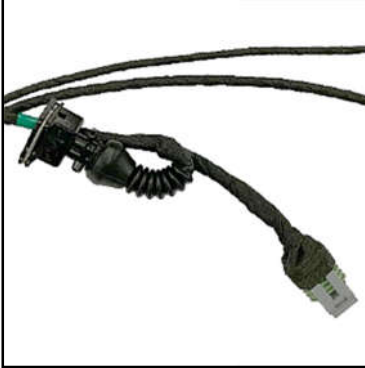
ROTAX RX7-12B or RX7-12L or ROTAX LiFePo4 (lithium iron phosphate type)

Battery must be fitted with an original battery clamp and battery cover (according to illustrations) and must be fixed to the chassis with both clamps (all 4 screws). Battery clamp with or without cable support is legal for use.

Battery clamp must be mounted on the left side of the Chassis, next to the seat.



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		

2.9 INTAKE SILENCER

125 Micro MAX, 125 Mini MAX, 125 Junior MAX and 125 Senior MAX

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".

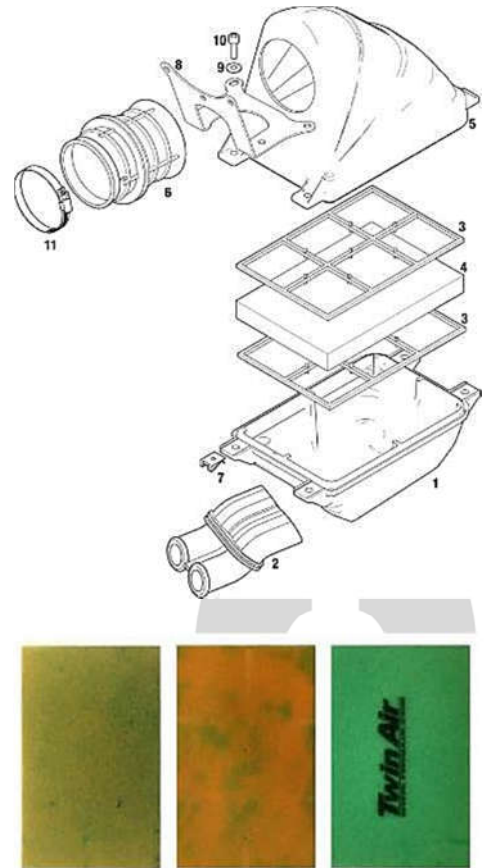
Intake silencer case, top is marked on the inside with "225025".

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.



125 MAX DD2:

Intake silencer with integrated washable air filter as shown in illustration.

The intake silencer case (Pos 1) is marked on the inside with "225012" (4 clips) or "225013" (5 clips).

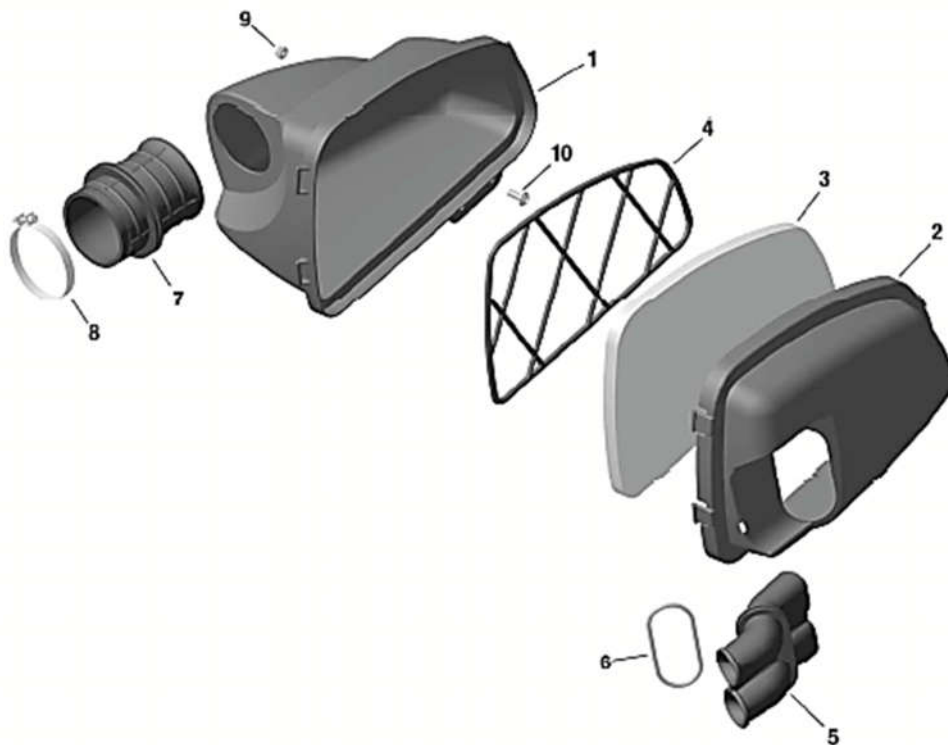
The intake silencer cover (Pos 2) is marked on the inside with "225022" (4 clips) or "225023" (5 clips).

Two versions of air filters (Pos 3) are legal to be used.

Version 1, with integrated steel frame.

Version 2, with separate plastic frame (Pos 4).

The air filter must be assembled between the intake silencer case and the intake silencer cover that the whole area of the intake silencer case is covered.



At intake silencer cover (Pos 2, Rotax 225022), it is mandatory to fit the O-ring (Pos 6) on the intake silencer tube (Pos 5). Intake silencer tube (Pos 5) and carburettor socket (Pos 7) are marked with the wording "ROTAX".

Sealing the top of the intake silencer using adhesive tape is an allowed modification. During wet condition, it is not allowed to attach anything to the air box to protect the air inlet from water spray.

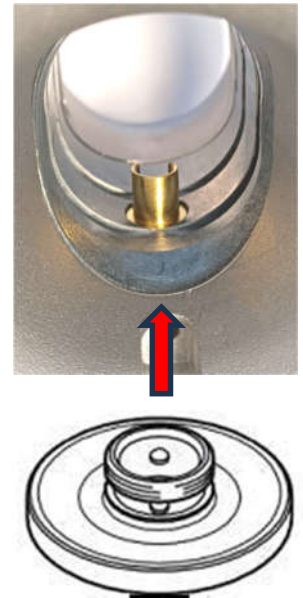
2.10 CARBURETTOR

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 picture for reference) Strictly no machining allowed in the area indicated by the red arrow.



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.

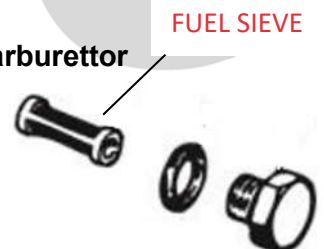
All jets must be correctly seated and securely fitted at any time (tightened)!

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)

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



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



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



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



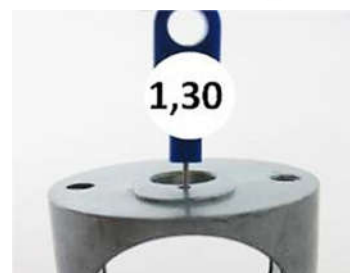
Carburettor insert must show stamping: “12,5”



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).



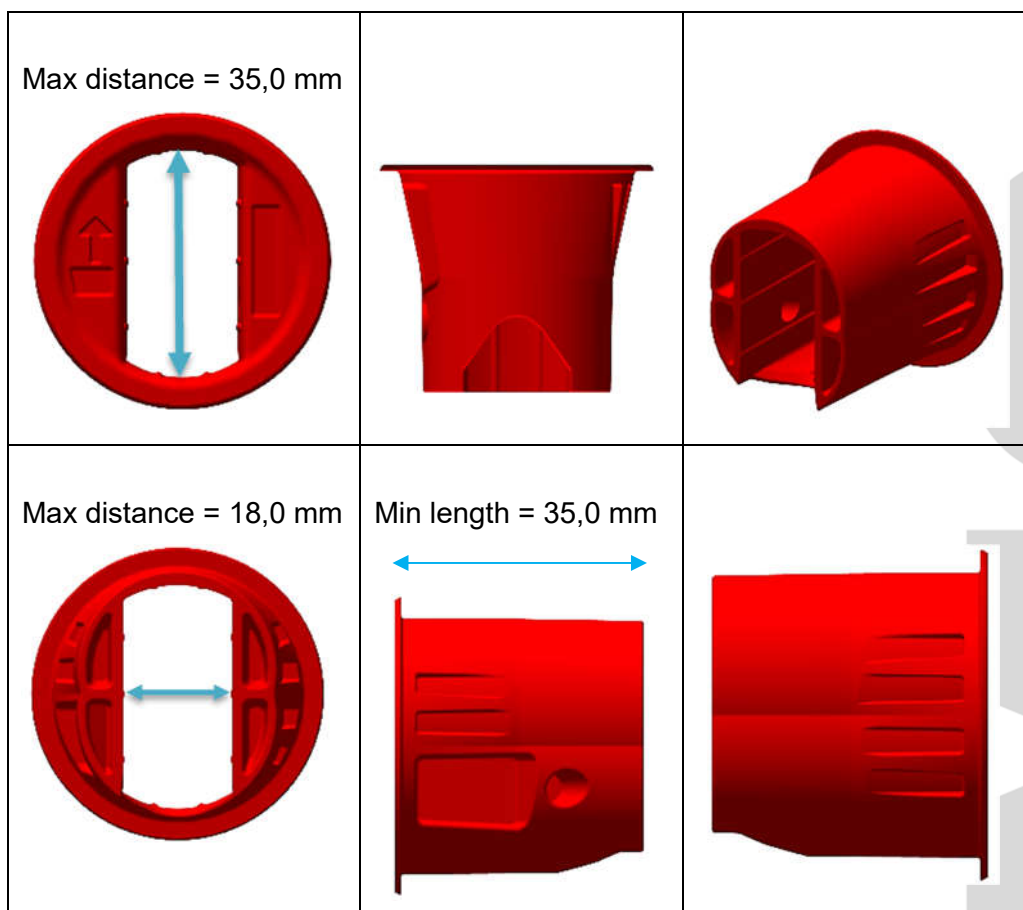
125 Micro MAX and Mini MAX:

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.



2.11 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 and 125 MAX DD2 (including masters) 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. It is permitted to drill a new hole to mount the Dellorto pump onto the existing brackets.

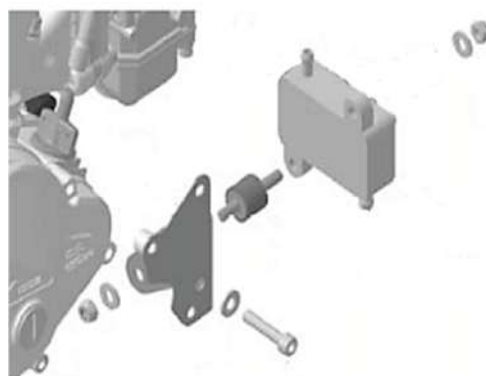
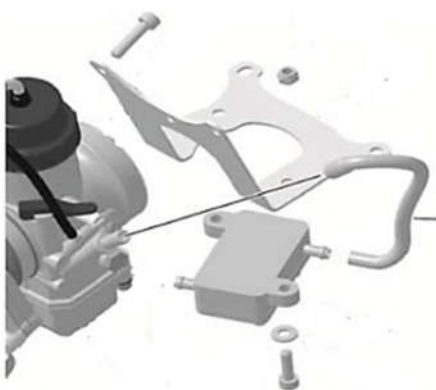
125 Micro MAX, 125 Mini MAX, 125 Junior MAX and 125 Senior MAX:

Fuel pump must be mounted on the bottom side of the support bracket for the intake silencer (left illustration).

125 MAX DD2:

Fuel pump must be mounted on the support bracket ROTAX part number 651063 651055 or 651056, attached to the clutch cover (right illustration).

Mounting the fuel pump with the two original rubber buffers to the chassis is an allowed option. In this case the fuel pump must be mounted below the inlet centre line of the carburettor.



2.12 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.



2.13 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 (neutral tape without advertising only) 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.

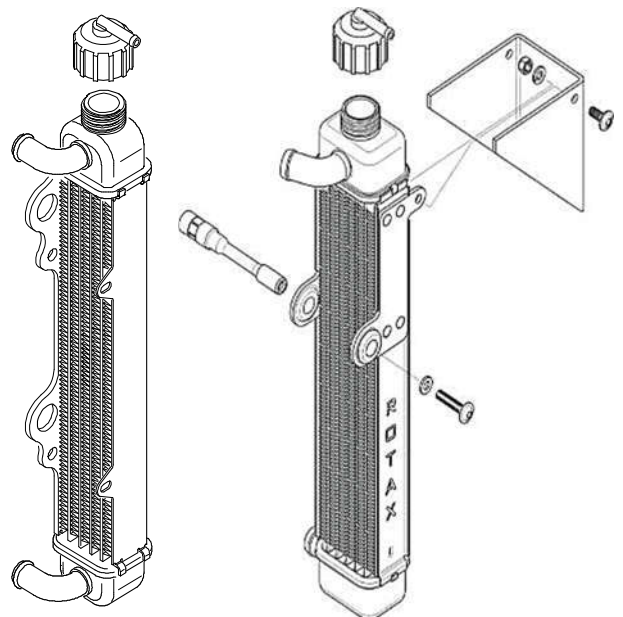
Cooling area:

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.

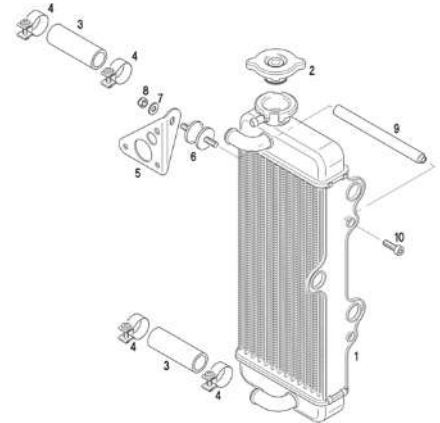
Version 1

Cooling area:

Height: 290 mm

Width: 133 mm

Thickness of radiator: 32 mm



Version 2

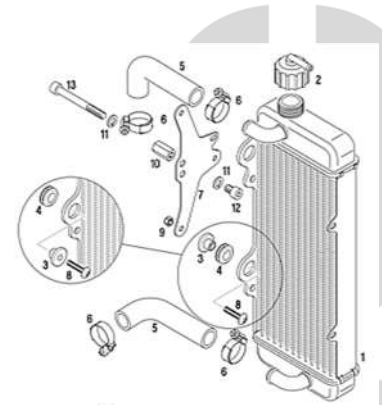
Cooling area:

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:

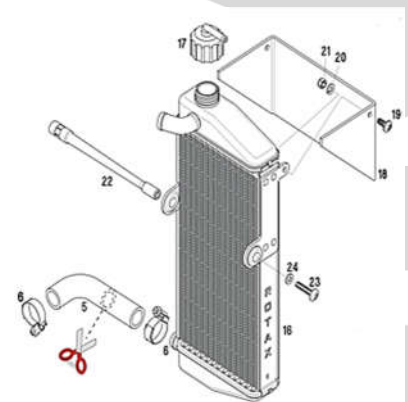
Height: 290 mm

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.



125 MAX DD2:

The radiator has to be mounted on the left side of the driver seat.

The highest point of the radiator with cap may not be higher than 400 mm above the main tube of the kart chassis.

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

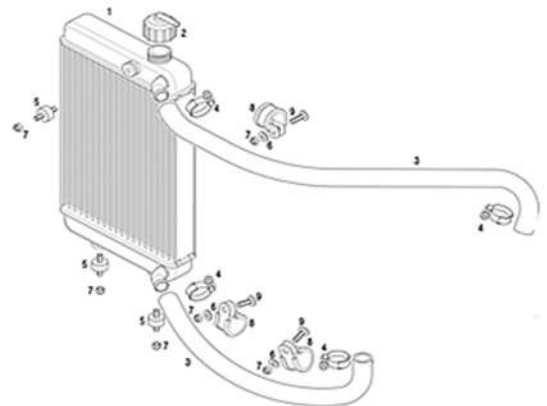
Version 1

Cooling area:

Height: 284 mm

Width: 202 mm

Thickness of radiator: 32 mm



Version 2

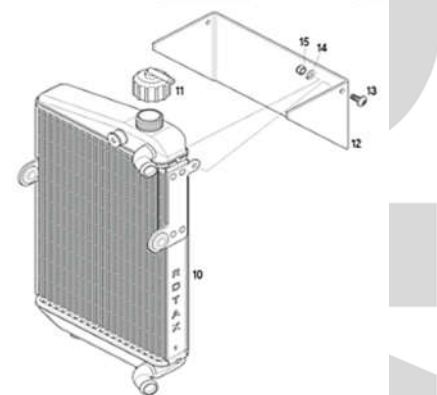
Cooling area:

Height: 290 mm

Width: 196 mm

Thickness of radiator: 34 mm

To remove the original flap is an allowed modification.



2.14 ENGINE COOLANT

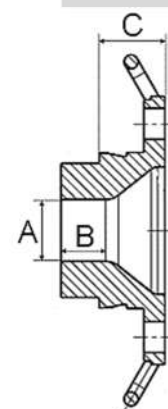
Plain water without any additives has to be used.

2.15 EXHAUST SOCKET (RESTRICTOR)

125 Micro MAX and 125 Mini MAX:

Just exhaust sockets with gasket ring are legal to be used.

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:

125 Micro MAX: 18,30 mm (Rotax part no. 273 192)

125 Mini MAX: 22,20 mm (Rotax part no. 273 196)

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

The internal profile of the exhaust socket has to be checked with the template, Rotax 277 405.

Fit the template (**125 Micro MAX "18 mm"**, **125 Mini MAX "22 mm"**) as far as Possible into the exhaust socket (**without gasket, carbon deposits removed**). There has to be a constant crack light between the profile of the exhaust socket and the profile of the template.



125 Junior MAX, 125 Senior MAX, 125 MAX DD2:

Only Rotax part no. 273 190 is allowed to 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.



NR

2.16 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).

The use of maximum 4 pieces of original Rotax exhaust springs, to fix the exhaust system to the silencer is 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
▪ 125 DD2 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 organizer.

- 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.

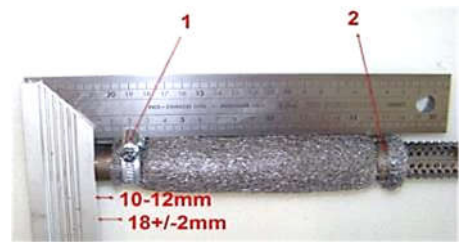
Additional to the standard isolation mat a steel isolation mat (Rotax part no. 297 983) with the square dimension of 165 +10 mm is legal for use in the JNR / SNR and DD2 category's only (not mandatory) to be assembled underneath the standard isolation mat according to the illustration.

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.



ONE

2.17 125 MICRO MAX

A specific Exhaust system has to be used for the 125 Micro MAX engine.

ROTAX Part number 273136

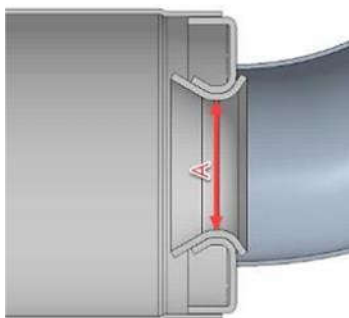
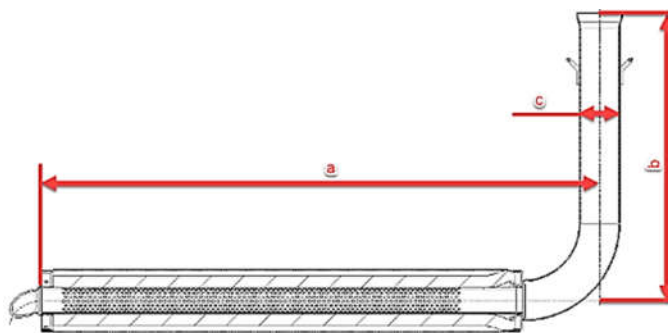
The Exhaust external body is a common component to Mini MAX, but with alternative internal components (**Inserts**).

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 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.

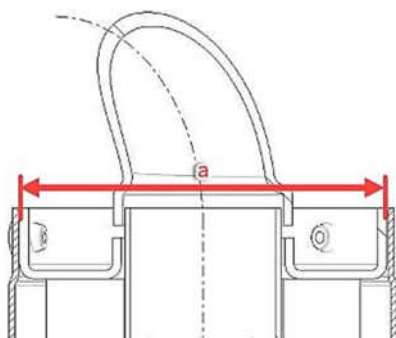
(**Internal exhaust components must first be removed**)

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

measurement of the



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.

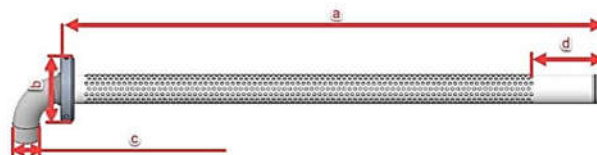
The Exhaust must be mounted in a neutral Position with no stress on the 2 silent blocks.

125 Micro MAX Perforated tube

ROTAX part number: 273212

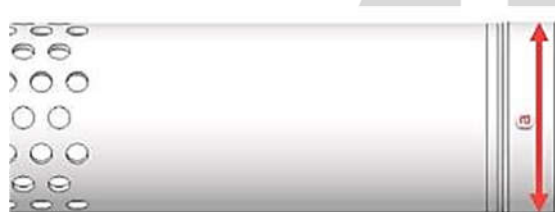
The measurements in the diagram below are as follows:

- (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

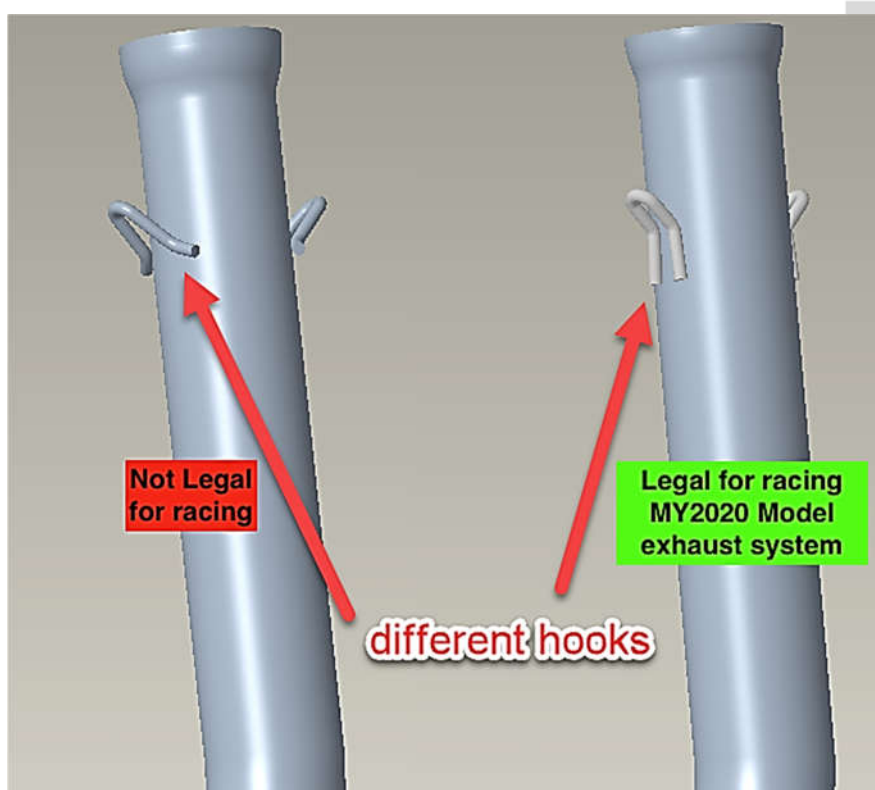
Note

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)



2.18 125 MINI MAX

A specific Exhaust system has to be used for the 125 Mini MAX engine.

ROTAX Part number 273137

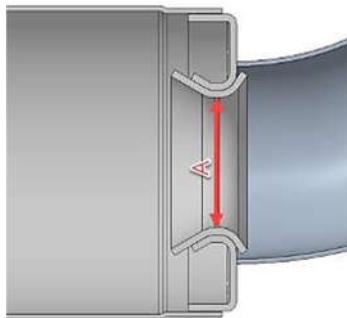
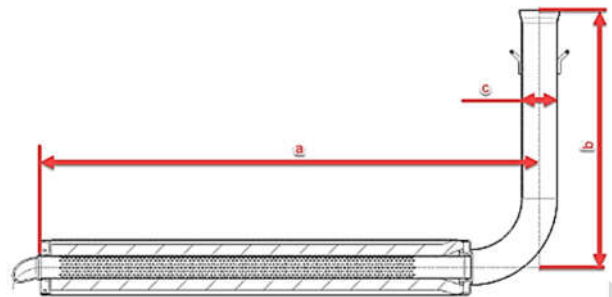
The Exhaust external body is a common component to Micro MAX but with alternative internal components.

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 below are as follows:

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



A solid flat plate measuring 28.0mm and 1.5mm thick must not pass through Section "A" and

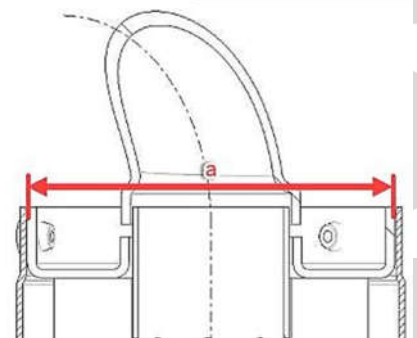
a steel ball with 26.0mm diameter must be able pass through Section "A" in the below diagram from the inlet and through the 90-degree elbow completely.

(**Internal exhaust components must first be removed**)

The inner measurement of the exhaust system silencer end (a) in the below 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.

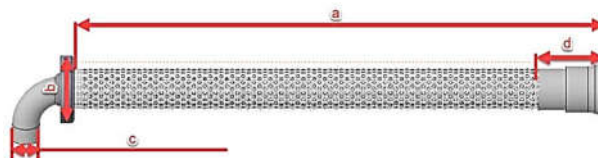
The Exhaust must be mounted in a neutral Position with no stress on the 2 silent blocks.

125 Mini MAX Perforated tube

ROTAX Part number 273211 or 273137

The measurements in the diagram below are as follows:

- (a) at least 481mm
- (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" or "O" visible externally.

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

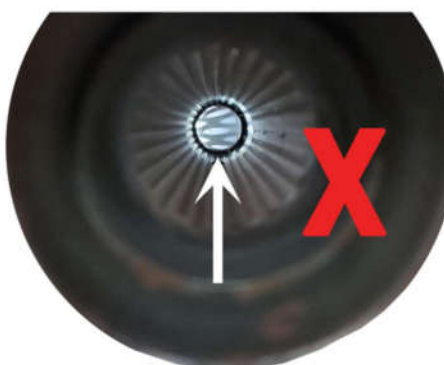
The perforated tube with the dome circle is not allowed.

See pictures below:

Legal to use



Not legal to use



The only legal Isolation matting for 125 Mini MAX is:

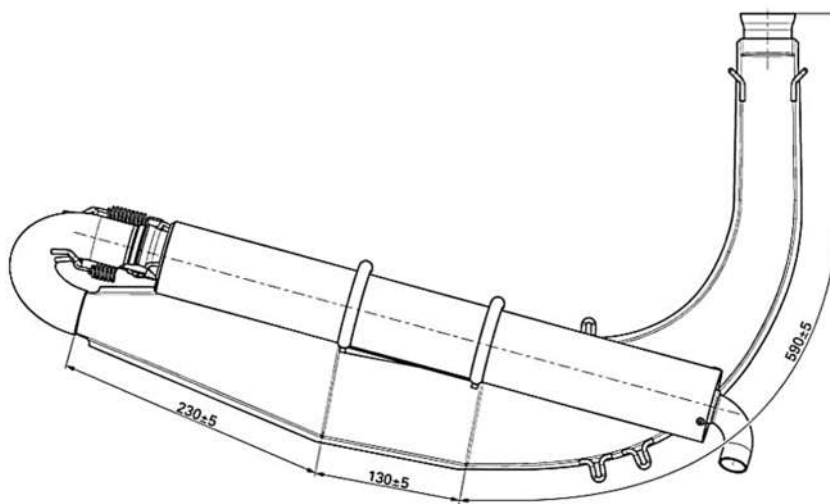
ROTAX part number 297985	Measurement	Tolerance
New size minimum	490 x 180 mm	+10 mm
		-10 mm
New weight	141 Gram	+22 Gram
		-22 Gram
Used weight (old)	230 Gram	+120 Gram
		-120 Gram

125
Mini
MAX

2.19 JUNIOR MAX AND 125 SENIOR MAX

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.



Dimensions to be checked

Length of inlet cone

Length

Tolerance

590 mm

+5 mm

-5 mm

Length of cylindrical part of exhaust pipe

130 mm

+5 mm

-5 mm

Length of end cone

230 mm

+5 mm

-5 mm

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

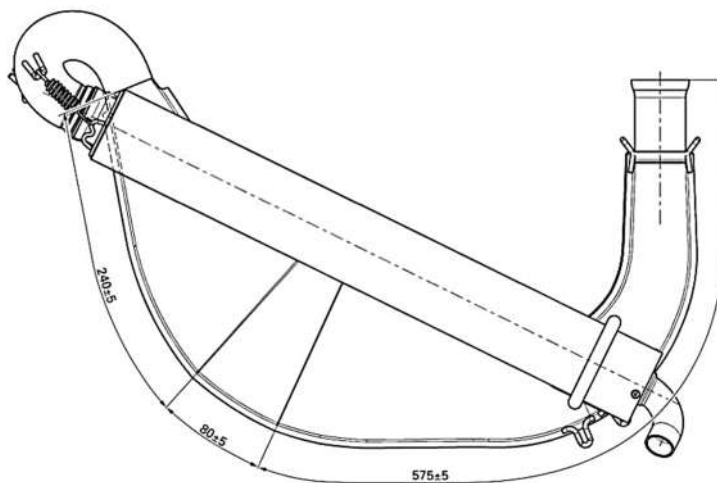
+105 Gram

-105 Gram

2.20 125 DD2 MAX

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.



Dimensions to be checked

	Length	Tolerance
Length of inlet cone	575 mm	+5 mm -5 mm
Length of cylindrical part of exhaust pipe	80 mm	+5 mm -5 mm
Length of end cone	240 mm	+5 mm -5 mm

The only legal Isolation matting for 125 DD2 MAX is:

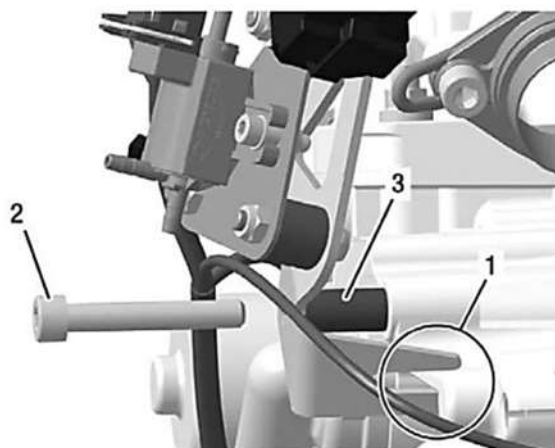
ROTAX part number 297982

	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

2.21 ADDITIONAL SEAT SUPPORT (125 MAX DD2)

On the engine side, maximum one additional seat support can be used.

The additional seat support must be fastened to the engine using the Allen screw (2). The distance sleeve (3) may be removed for this purpose.



----- END OF TECHNICAL SPECIFICATIONS -----