




RMC ASIA FESTIVAL 2022

Technical Regulations Mini Max


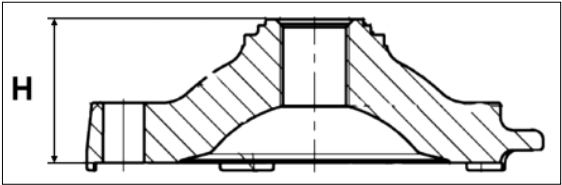



Technical Regulations MINI MAX

2.00 / Chassis	1 chassis per competitor per event (weekend). Valid CIK/FIA homologated chassis or chassis that have been manufactured by CIK/FIA homologated factories. If the chassis is CIK/FIA homologated also all parts have to be used according the CIK/FIA chassis homologation. It is permitted to attach chassis 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.		
Wheelbase	Minimum 850mm	Maximum 950mm	
Chassis pipe	Ø 28 Magnetic steel / Wall thickness 2 mm ± 0.2 mm		
2.01 / Brakesystem	Mechanic or hydraulic. Between the master brake cylinder and the brake pedal an extra security brake cable is mandatory. Minimum 1.8 mm thickness. Also an extra security clip is mandatory at the brake pads. A ceramic brake disc is not allowed.		
2.02 / Rear axle	Magnetic material in a whole.		
Diameter	Maximum Ø30 mm .		
Wall thickness	Minimum 4.9 mm (entire length).		
2.03 / Rims	Aluminium or magnesium / diameter 5 inch.		
Front rim	115 mm (tolerance +/- 6 mm) measured to the outside of the rim. Front hub is allowed.		
Rear rim	145 mm (tolerance +/- 6 mm) measured to the outside of the rim. Any additions to the rims are not allowed. Except : adhesive balancing lead. Bead retaining screws are allowed.		
Maximum width	Maximum 110 cm / measured to the outside of the rim.		
2.04 / Tyres			
Dry	MOJO C2 CIK with barcode	Front 10x4.00x5	Rear 11x5.00x5
Rain	MOJO CW CIK with barcode	Front 10x3.60x5	Rear 11x4.50x5
	<p>Slick and wet race tires will be given to the drivers from the race organiser.</p> <p>1 set of slick tires and 1 set of wet tires per event is allowed from qualify practice. Tires must be mounted according to the direction of rotation defined on the tire. If it's detected on the pre-grid area that a driver has fitted his tires incorrectly (wrong direction) then he will be moved to the parc-ferme. The drivers has the possibility to assemble his tires correctly, with the help of one (1) mechanic;.Only putting the tires in the correct direction is allowed. It is not allowed to do other technical changes.</p> <p>Afterwards he may start, but only when the start is given. He is not entitled to participate in the formation laps. If the observation takes place after the race, the driver will be excluded from the relevant part of the competition.</p> <p>It is not allowed to modify the tires. The brand name, code number, barcode and the indications always need to be visible on the tires. Only normal air is allowed to fill the tires.</p>		
2.05 / Rearbumper	The plastic bumper must be homologated. And cover at least 2/3 of the rear wheels, and may not protude the rear tires. Allowed to have verticle movement only, horizontally is forbidden.		
2.06 / Side-pods Front panel Front fearing	<p>Only a complete homologated plastic spoiler set is allowed. The complete spoiler set should have the same homologation number.</p> <p>Using composite like carbon fiber is not allowed. For security reasons it is mandatory to use a front bumper with a minimum width of 82 centimeters. Only plastic frame protection parts (left, right, right, front) is allowed.</p> <p>The complete set should be free of damage. A CIK front fearing bumper is mandatory for all type of chassis and has to be mounted according the CIK regulations homologation 2021-2023.</p>		

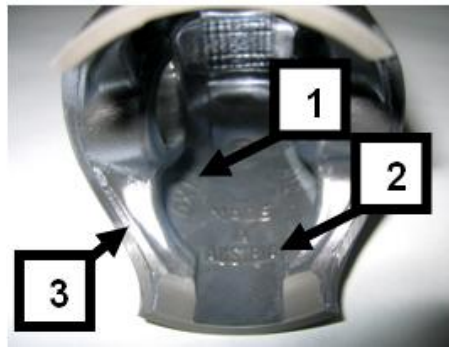
2.08 / Age	From 10 years (or reach the age of 10 in 2022) till 11 years.
2.09 / Weights and clothing	<p>Minimum 115 kg on each moment of the event. Kart + complete race gear. A driver must be equipped and appear for inspection with the following gear: (see time table)</p> <p>Complete equipment must comply with the CIK regulations A turbo visor is allowed in case of rain Gloves which cover the entire hand High shoes that cover and protect the ankles.</p> <p>The responsible doctor on the event may, for safety reasons, disapprove certain types of breast, neck or rib protections.</p> <p>A neck protection is mandatory.</p> <p>From the moment when the driver goes on track, he must wear the mandatory race gear as described in this article.</p>
2.10 / Race numbers	Yellow plate with black digits (Numbers 101 to 199) (Front, rear, left and right sides)
2.11 / Data systems	Data logging with or without a GPS module is allowed. Data from the GPS module may only be saved in a system which has been mounted on the kart. Every other form of telemetry or radio communication is not allowed. Transferring data during sessions to a device, other than the data logger on board is not allowed. 2 temperature sensors water/exhaust only allowed. Lambda/O2 sensors strictly forbidden.
2.12 / Seat	The seat has to be fixed at minimum 4 places, 2 at the top (left and right) and 2 on the bottom (left and right). All seat supports have to be fixed with washers with a minimum thickness of 1.5 mm and a diameter of 40 mm. Additional seat stay is allowed maximum 1 on each side.
2.13 / Lead	<p>Drivers who are lighter than the required minimum weight shall attach extra weight on their kart, until they reach the prescribed weight. Lead may only be installed on the chassis or on the seat. The Technical Scrutineering can force each driver to mount the lead on another place. The lead shall be mounted so that everyone's security is guaranteed at all times:</p> <ul style="list-style-type: none"> • Up to 3 kg: at least with 2x M6 bolts including washer • Up to 6 kg: at least with 2x M8 bolts including washer • Up to 10 kg: at least with 4x M8 bolts including washer
2.14 / Camera's	Camera is allowed during free practice only.
2.15 / Composite materials	<p>Composite materials (carbon-fiber etc.) are banned except for the seat and the floor tray.</p> <p>Alloys from different metals/substances are not considered as composite materials.</p>

ENGINE - Rotax MINI MAX EVO

2.16 / Foreword	<p>Only original spare parts which are manufactured by BRP-Rotax are legal to be used. Any modifications are not allowed.</p> <p>Eventually heliix reparations with heli coils and/or wire bushes are allowed.</p>
2.17 / Engines	<p>Driver is allowed to enter maximum 2 engines.</p> <p>The engine origin has to matched with his/her competition license nationality or using the engines supply by the regional distributors (Malaysia, Thailand or Phillipine) is allowed.</p>
2.18 / Squish Method of measuring	<p>Minimum 1.20 mm (including possible carbon deposits)</p> <p>The squish gap must be measured with a certified slide gauge and by using 2 mm tin wire (Rotax part no. 580 130).</p> <p>The crankshaft must be turned by hand slowly over top dead centre to squeeze the tin wire.</p> <p>The squish gap could be measured on the left and right side in the direction of the piston pin.</p> <p>The engine temperature below 30 degrees Celcius</p> <p>The average value of the two measurements counts.</p>
2.19 / Combustion	<p>Cast identification code has to be "223 389" or "223 389 1" or "223 389 2" or 223 389 2/1" or "223 389 2/2". Casted wording "ROTAX" and/or "MADE IN AUSTRIA" must be shown</p>  <p>Height of the combustion chamber insert has to be 28.80mm +/- 0.2mm (H)</p>  <p>The profile of the combustion chamber insert has to be checked with a template (ROTAX part no. 277 390). The crack of light between the template and the profile of the combustion chamber insert has to be the same over the whole profile.</p> 
2.20 / Cylinder head cover	<p>It is allowed to change the colour of the cylinderhead cover for identification.</p>

2.21 / 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
- 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, (e.g. removal of carbon deposits). Cleaning without changing the original surface is allowed. 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 measurements areas is forbidden.

Piston ring

Original, magnetic, rectangular piston ring.

Ring height : 0.98 +/- 0.02 mm.

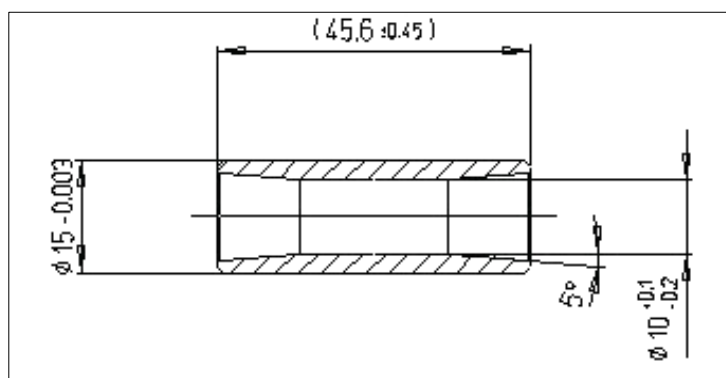
Piston ring is marked either with "Rotax 215 547", "Rotax 215 548", Rotax 215 548 X, or "I ROTAX 215548 X

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



2.22 / Piston pin

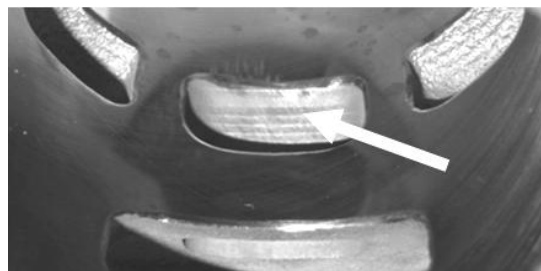
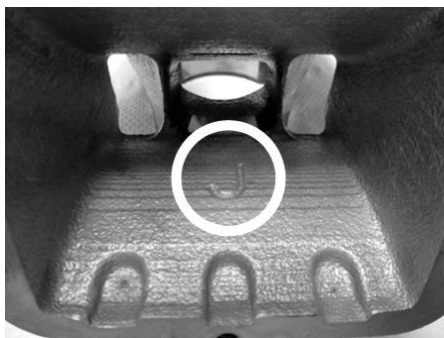
Piston pin is made out of magnetic steel. Dimensions must be according to the drawing. The minimum weight of the piston pin must not be lower than : 31.00 grams



2.23 / Cylinder

Cylinder types >2017, Rotax part no.: 223 994 marked with the letter "J" are the only types that are allowed. All other types are banded.

The central boost port and exhaust port may show factory machining. See pictures below:



Cylinders may show in the inlet port a linear texture.

Cylinders 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.

2.24 / Maximum bore

Maximum bore of cylinder = 54.035 mm (measured 10mm above the exhaust port)
Light alloy cylinder with GILNISIL plating. Any re-plating of cylinder is not allowed.

2.25 / Cylinder measurements

Height of cylinder should be 87.00 mm (-0.05 / + 0.10mm)



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 part no. 277 402).

Insert the template for Junior Max cylinder 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.

In this position the template may not touch the cylinder wall (nikasil).
Cylinder with one main exhaust port and without exhaust valve.
Cylinder marked with identification code 223994 only are legal to be used.



The horizontal and vertical dimensions of the exhaust port with fully CNC machined exhaust port only) have to be checked with the template (Rotax part no. 676 245).

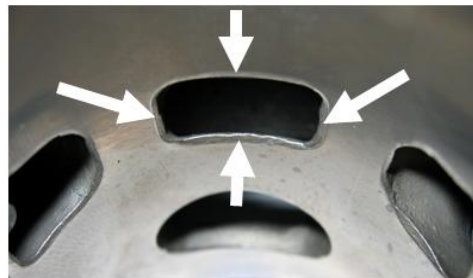
The template has to be moved in horizontal and vertical position as far as possible into the exhaust port. In both directions the template may not touch the exhaust socket flange.



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.

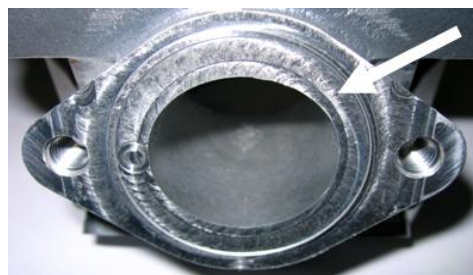
Any modification is strictly forbidden!

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

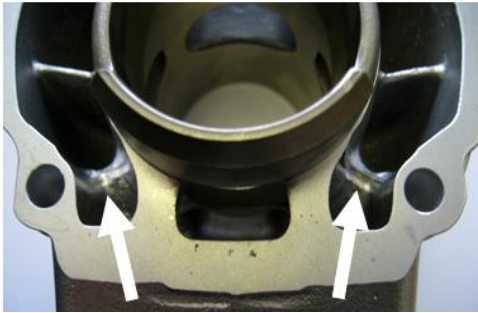


The top edge of the exhaust port may show either just a cast finish surface or signs of a CNC machining or signs of CNC machining in combination with signs of manual grinding.

The flange for the exhaust socket may show machined surface. Machined surface can be either flat or show a circular sealing bump.



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.



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).

2.26 / Inlet system

The inlet manifold is marked with the name ROTAX and identification code 267 915 or 267 916



Some factory flash removal may be present at the conjunction of the inside contour and the carburettor stop mounting face. No additional grinding or machining is permitted.

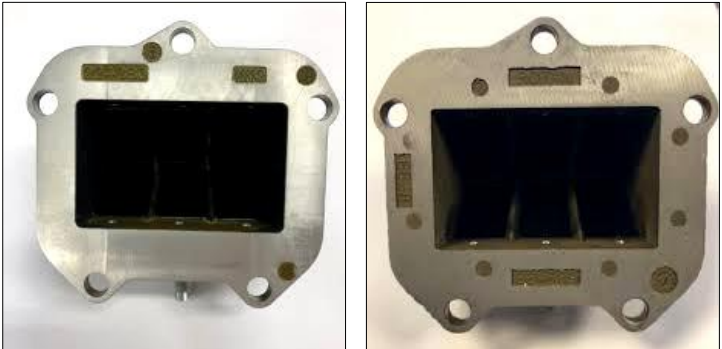
Reed valve assy.

The reed valve assy. is equipped with 2 petal stops and 2 reeds, each having 3 petals. The thickness of the reeds is 0.60 mm +/- 0.10 mm.

Modification is not allowed.

Both reed valve assy. are legal to be used.

Part no. 224 380 (left picture)
Part no. 224 389 (right picture)



Reed valve stopper gap measurement
MUST be between 18-22mm (inside measurment)

2.27 / Conrod / Crankshaft

Stroke: 54.50 mm ± 0.1 mm Conrod has to show forged numbers "213", "365", "367" or "362" on shaft. (see pictures)



Shafts of conrods "213", "365" and "367" are not machined and are copper plated. Shaft of conrod "362" is not copper plated and is blank (grey/brown). Grinding or polishing of shaft of conrod is not permitted. Crankshaft has to be unprocessed and may not be damaged.

Ignition signal on crankshaft :

Fit the template (Rotax part no. 277 391) 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 (+/-0.50 mm) with the corresponding edges (MAX) of the template.

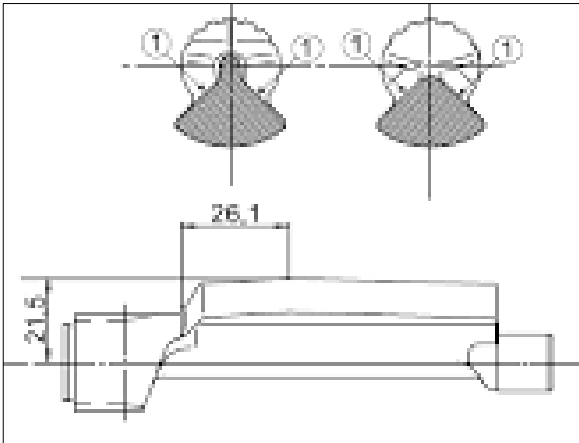


2.28 / Balance shaft / drive

Balance shaft and balance gears must be installed.
Balance shaft must show casting code 6237948 or 6237949 on surface only is legal.

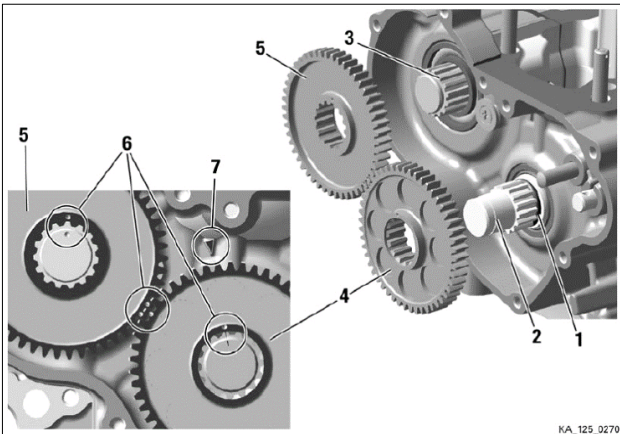
Surface (1) is not machined and must show cast surface. Measurement from centre of balance shaft to outer diameter of fly weight of balance shaft at defined length must not be lower than specified : (21.50 mm) see drawing.

The minimum weight of the dry balance shaft must not be lower than: 255 gram for balance shaft. (Rotax part no. 237 949)



Balance drive

Balance gears must be installed and must be aligned according to the instruction in the repair manual. Timing of the balance gears should be at any time correct as shown in the image below (see 6). Only the balance gears (Rotax part no. 234 435 (8.80 mm width) are legal to be used.

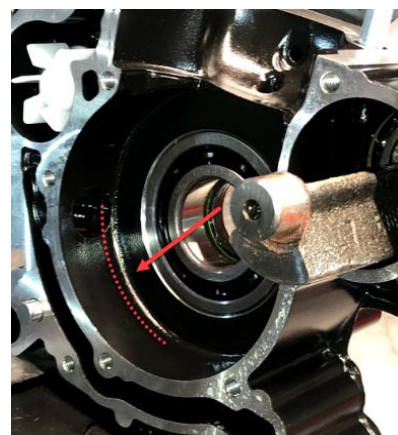


2.29 / Crankcase

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

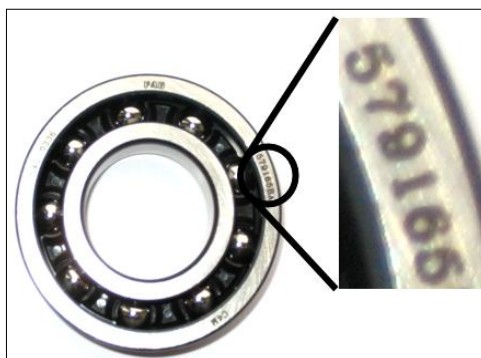
Machining maybe evident in the crankcases in the area identified in the picture.

Only black coated crankcases are legal to be used.



2.30 / Crankshaft main bearings

Crankshaft main bearing 6206 from FAG is only allowed to use. The bearings must be marked with 579165BA or Z-579165.11.KL or Z-579165.21.KL (see picture)

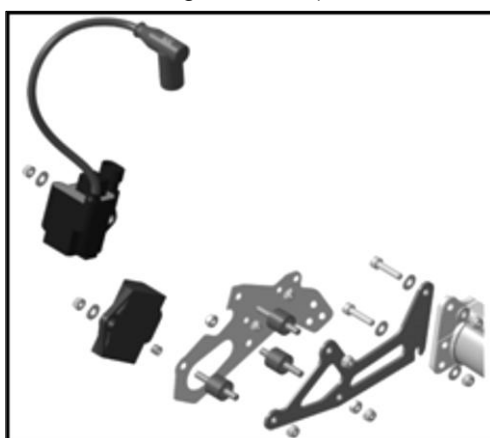


2.31 / Ignition system

Dellorto ignition system is legal to be used only.

Ignition coil with separate electronic ECU box (Rotax part no. 666 815). The ECU box is still legal to be used if the sticker is removed.

Ignition coil and ECU box have to be fitted with all components according to the illustrations below. Two different mounting versions (left illustration and right illustration) are legal.



At the mounting version as shown in the left illustration, the ground cable of the cable harness has to be connected to the lower rubber buffer of the support plate. Removing the black coating of the gearbox in specific areas, for mass connection between cable harness and engine, is a legal modification.

In case the mounting bracket 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.

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



Ignition coil must show two pins at the terminal. The ignition coil is labelled with two stickers : “BRP 666820” and “NIG 0105”. The ignition coil is still legal to be used if one or both stickers have disappeared.

The 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)

The organization reserves the right at all times to exchange ignitions coils and / or ECU boxes with ignition coils and or ECU boxes from the organization.

The ECU box can be checked with the ECU box tester (Rotax part no. 276 230)

Start the test by pressing the button . After approx. 3 seconds the type of ECU box that is actually tested will be indicated in the second line of the display. After approx. 30 seconds the result of the test will be indicated in the first line of the display.

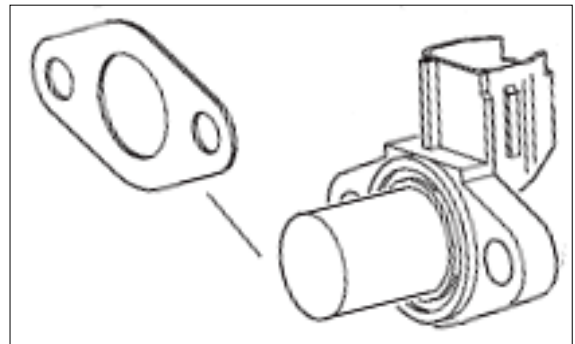
The ECU box tester has to indicate following results:

125 MINI MAX category

1. 666818MINI
2. !! Test OK !!

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.



Additional gasket, Rotax part no. 431 500, gasket thickness = 0.8 mm are allowed to be fitted. Maximum two gasket (Rotax 431 500) are allowed to be fitted.

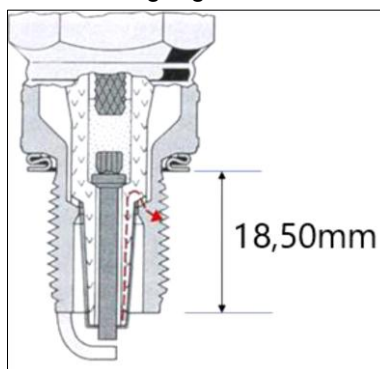
It is not necessary to install any additional gaskets with the exception of the rubber sealing ring on crankcases with the machined sealing surface for the pick-up sensor.

2.32 / Spark plugs / Caps

Following spark plugs are legal to be used :

NGK GR8DI / NGK GR9DI

Electrode distance maximum 1.20 mm. Filler gauge 1.20 mm must not fit in between the two electrodes.



Maximum spark plug shaft including ring : 18.50 mm.

Two versions of spark plug caps are legal to be used :

Version 1. Red, marked with "NGK"

Version 2. Red, marked with "ROTAX"



2.33 / Battery

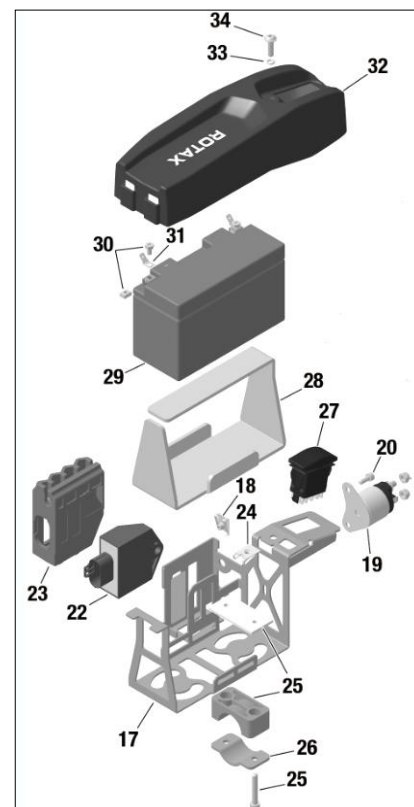
Original batteries with following specifications are legal to be used :

- YUASA YT7B-BS
 - Light weight battery is allowed to be use ONLY the driver doesn't have any leads on the kart.
- Specifications of the batteries should be readable at all times.

Battery must be fitted with the original battery clamp and battery cover (according to illustration) and must be fixed to the chassis with both clamps (4 screws). Battery clamp with or without cable support is legal for use. Battery clamp must be mounted on the left side of the seat.

It is an allowed option to mount rubber buffers (4 pieces) between 24 and 26.

It is an allowed option to mount rubber buffers (4 pieces) between 17 and 25.



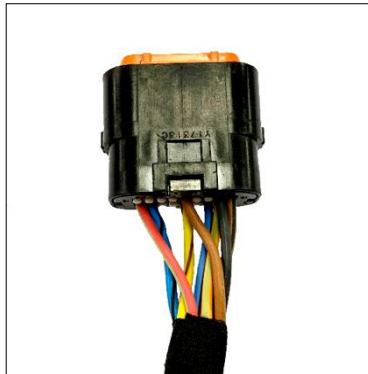
Wiring harness

Two versions of the wiring 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)

ECU Connector



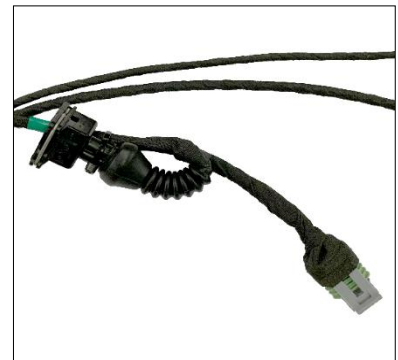
Wiring Harness (666 836)



Connector



Solenoid Connector



Only original plugs from the Rotax wiring harness are legal to be used.

2.34 / Carburettor

DELLORTO Type VHSB 34. Housing has to show the cast wording "VHSB 34".
Carburettor housing is stamped with "XS".

The complete inlet bore of the carburettor must show cast surface.
Carburettor slide shows digits "45" in casting

Following specifications:

- Carburettor venturi insert 12,5.
- Needle jet stamped with "DP267".
- Jet needle stamped with "K57".
- Start jet stamped with "60".
- Idle jet stamped with "60".
- Idle emulsion tube stamped with "45".
- Float lever according template (Rotax part no. 277 400.)
- Floats marked "4.0 gr" are legal to be used only.
- Needle valve assembly stamped "150". Needle of needle valve marked with diamond symbol "INC" only.
- All jets must be correctly seated and securely fitted at any time (tightened)!
- Settings of the carburettor adjustment screws (idle and idle air) are free.
- Settings of main jets is free.
- Optional carburettor plug (Rotax part no. 261 030) is legal to be used.
- Using the fuel sieve in the carburettor is not mandatory. (see picture)



Only original Dellorto parts are legal to be used.

See checklist DELLORTO for further info.

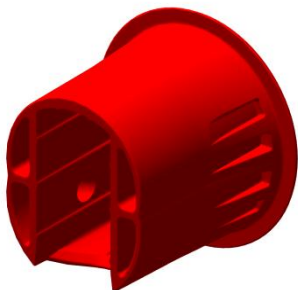
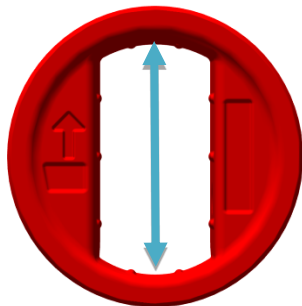
Carburettor

Only the red moulded plastic throttle body restrictor (Rotax part no. 267 536) must be installed in the rear of the carburettor and in the correct orientation at all times.

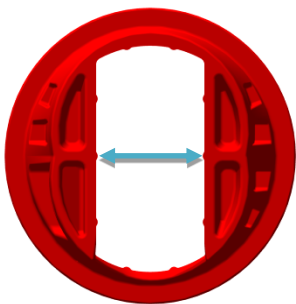


No modifications are allowed. The ribbed surface on the inlet is to help ensure dimensions have not been modified.

Max distance = 35.0 mm



Max distance = 18.0 mm



Min length = 35.0 mm



2.35 / Fuel pump

MIKUNI fuel pump, type DF 44-210 is mandatory. Fuel pump must be mounted on the bottom side of the support bracket for the intake silencer.



2.36 / Fuel filter

It is **mandatory** to mount a fuel filter, but if a fuel filter is mounted only the version showed in the picture below is allowed. Rotax part no. 274 161.



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

2.37 / Radiator

Only the original radiator, with (ROTAX part no. 295 923) is legal to be used.

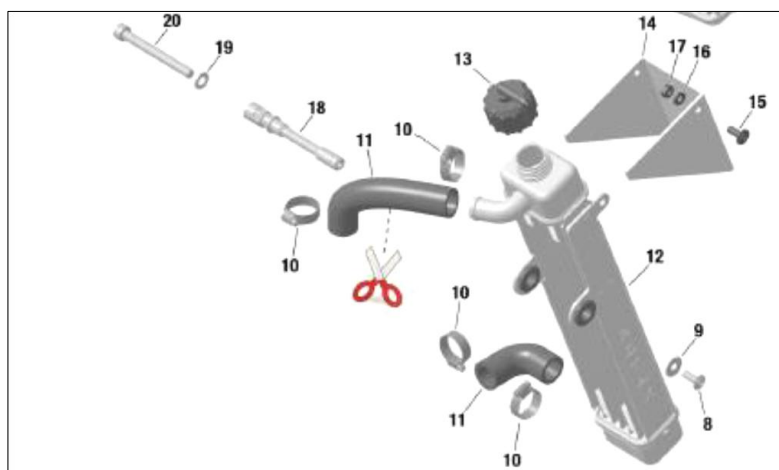
Cooling area :

Height: 280 mm / 300 mm

Width: 58 mm / 62 mm

Thickness of radiator: 30 mm / 34 mm

To remove the original flap is an allowed modification.



The removal of the thermostat from the cylinder head cover is an allowed modification. Radiator must be mounted with all components. The removal of the radiator flap is an allowed option.

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 or loosen from the radiator during operation on the track. Any other non-original device to control the air flow through the radiator is prohibited.

Using a plate to control the air flow is not an allowed option.

The radiator has to be mounted on the right side of the engine.

2.38 / Engine coolant

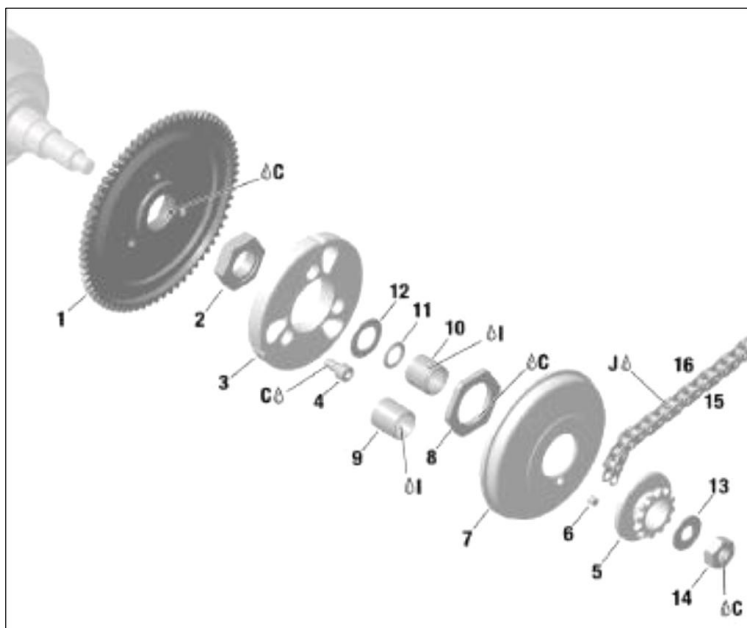
Plain water without any additives has to be used.

The venting of the radiator should end in a reservoir.

2.39 / Clutch

Engagement speed of centrifugal clutch at maximum 4,000 rpm (the kart without driver must start to move).

Latest clutch version.



Only original Rotax clutch parts with Rotax logo are legal to be used. Clutch Rotax part no.659907

Clutch is mandatory to be mounted with bearing 15x19x17 (Rotax part no. 632 415) including O-ring (Rotax part no. 950 815)

Signs of any emulsion from the needle/plain bearing into the clutch drum may not exceed the picture below. Contact area between clutch and clutch drum has to be dry at any time. No lubrication allowed.



Clutch specifications at any time :

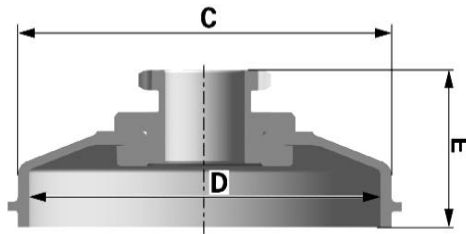
Thickness of clutch shoe (A) :
minimum : 24.10 mm

Measurements 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 : (Rotax part no. 659 930 and Rotax part no. 659 937) are legal to be used.



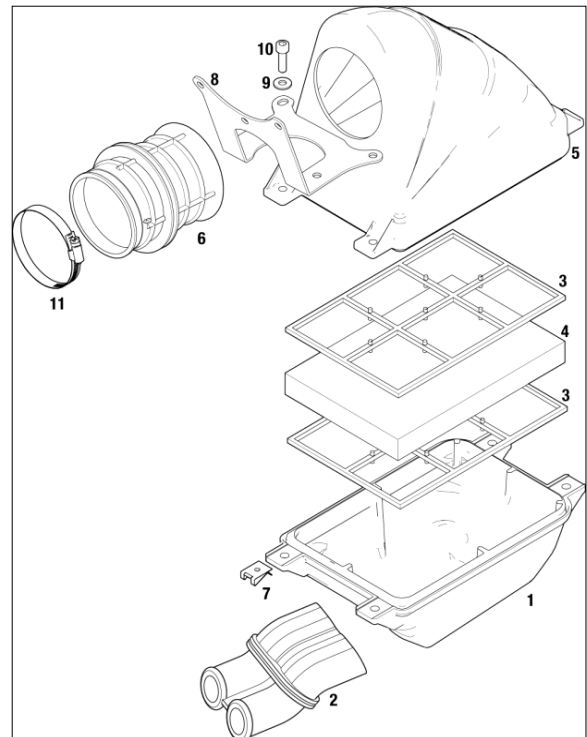
The outer diameter of the clutch drum (C) : minimum 89.50 mm. Diameter has to be measured with a sliding calliper just beside the radius from the shoulder. (Not at the open end of the clutch drum).

The inner diameter of the clutch drum (D) : maximum 84.90 mm. The inner diameter has to be measured with a sliding calliper. The measurement has to be done in the middle of the clutch drum (in the contact area between clutch and clutch drum).

Clutch drum height with sprocket (E) : minimum : 33.90 mm

2.40 / Airbox

Intake silencer with integrated, washable air filter has to be used with all parts. And has to be mounted, in the original shape, on the support bracket with two screws (in dry and wet conditions).



Intake silencer tube (pos2) and carburettor socket (pos 6) are marked with the wording "Rotax"

Intake silencer case bottom is marked on the inside with the Rotax part no. 225 015.

Intake silencer case, top is marked on the inside with the Rotax part no. 225 025

The 'TWIN AIR' filter element is mandatory to use. (see picture) Using elements with the wording "Aprillia" is not allowed !

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 (pos1).

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

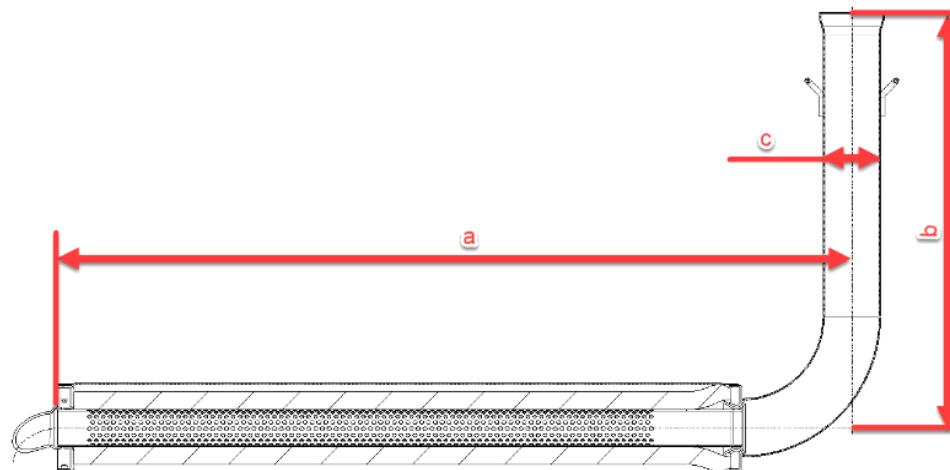
2.41 / Exhaust system

Original exhaust system as supplied by Rotax has to be used for the 125 Mini MAX engine. Rotax part no.273 137. The exhaust external body is a common component to Micro MAX, but with alternative internal components (Inserts).

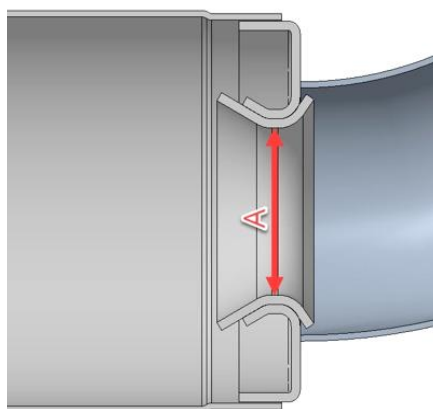
The silencer must be mounted in a position where the direction of the 90° elbow outlet (direction of the hot exhaust gasses) does not harm any component of the chassis. The exhaust must be mounted and secured in such a way to ensure a full sealing around the exhaust socket and the gasket ring.

The measurements in the diagram below are as follows:

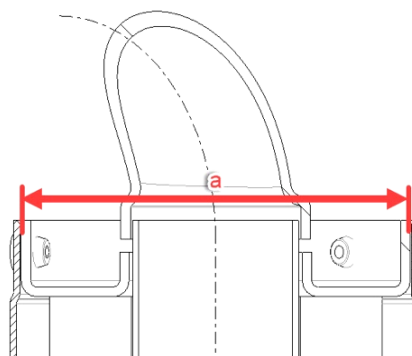
- (a) 580 mm +/- 5 mm
- (b) 299 mm +/- 5 mm
- (c) 42 mm +/- 3 mm



A steel ball with a 28.0 mm diameter must not pass through Section "A" and a steel ball with a 26.0 mm diameter must be able to 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 mounted to rigid mounts using 2 ROTAX silent blocks. (Rotax part no. 660 920 and/or Rotax part no. 260 657 are allowed).

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

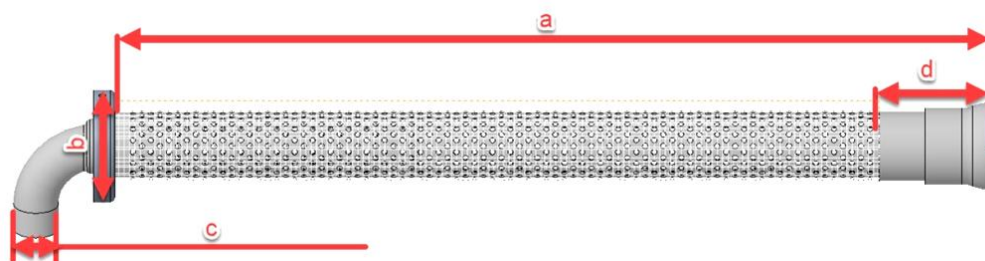
The exhaust must be mounted in a neutral position with no stress on the 2 silent blocks.

Mini MAX Perforated tube

ROTAX part no. 273 211

The measurements in the diagram below are as follows:

- (a) at least 482 mm
- (b) minimum outside diameter of 61 mm
- (c) maximum outside diameter of 26 mm
- (d) minimum length 63 mm



NOTE: Mini MAX perforated tube has a stamped ID marker "X" visible externally.



The only legal isolation matting for Mini MAX is Rotax part no. 297 985. The steel isolation matting Rotax part no. 297 983 is not allowed to be used.

New Size minimum 490 x 180 mm (+/-10 mm)

New Weight 141gr (119g – 163g)

Used weight minimum 110g

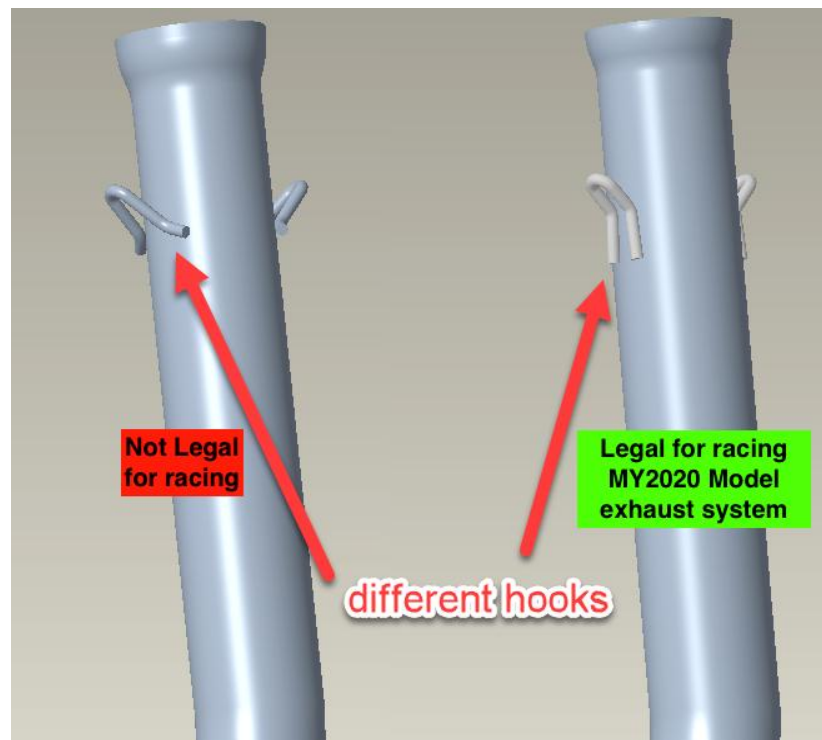
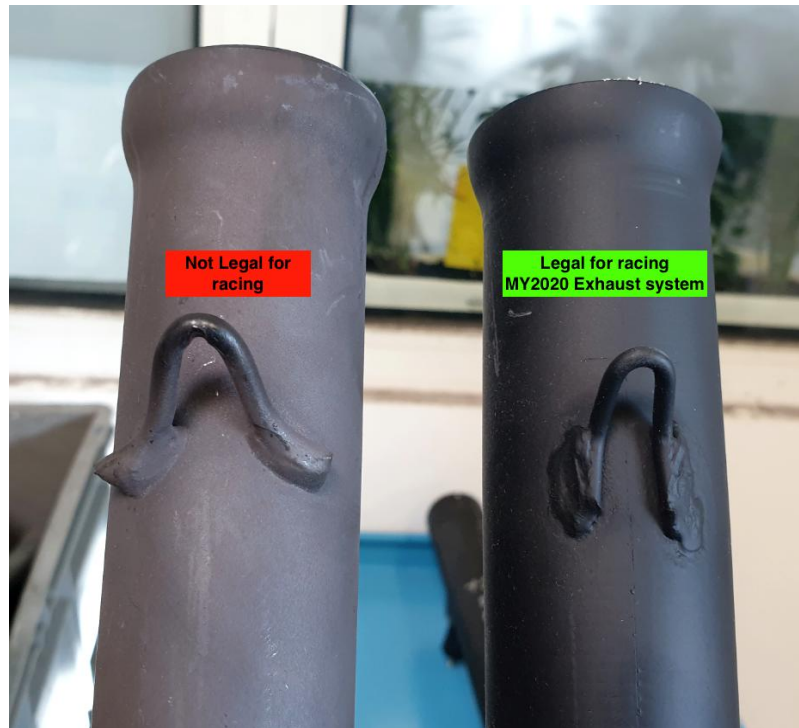
Used weight maximum 350g

NOTE:

The only exhaust system allowed for racing in the Micro MAX category is the MY2020 version. The exhaust has 3 clear visual differences to identify the MY2020 version. (see pictures below)

1. Exhaust hooks
2. Connecting socket / ball joint connect at manifold
3. Wall thickness of the exhaust system is 1.00 mm (older exhaust system which is not allowed for racing has a wall thickness of 1.50 mm)

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 is an allowed option.



MUST use 4 pieces of original Rotax exhaust springs, to fix the exhaust system to the cylinder. (a "safety wire" in the exhaust flange area is not allowed).



The exhaust springs must be in this conditions shwon in picture above.



Exhaust must be install correctly as shown in pictures above.



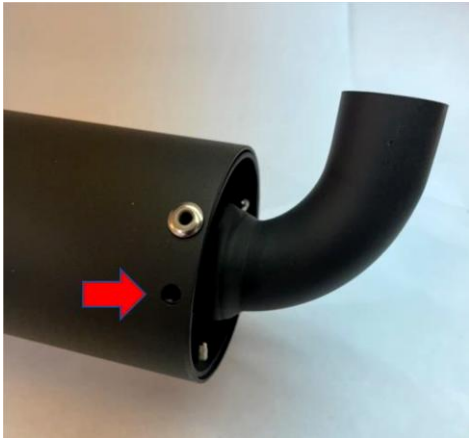
Exhaust must be install firmly and tightly without any leak.

Only repairs that return the components to its original shape or form are allowed.

Allowed modifications on the original exhaust systems are:

1. Replacing the original rivets of the silencer end cap by 4 mm metric screws and corresponding locking nuts. The 3x 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 picture for reference). External protrusion of the outer sealing ring of the perforated tube is forbidden (Indicated by the red arrow).

2. 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. The perforated tube must be always secured tightly to the exhaust at 3 points.



Exhaust restrictor

Only exhaust restrictor (Rotax part no. 273 196) including seal ring is legal to be used. Gasket (Rotax part no. 250 271) is mandatory between exhaust restrictor and cylinder and has to seal perfectly.

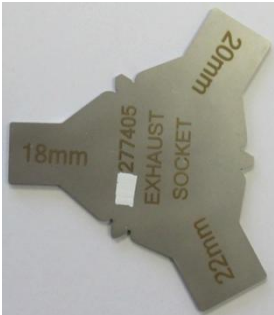
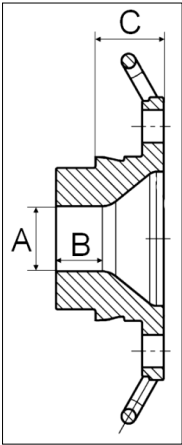
Diameter (A) must apply for a length (B) of at least 16.80 mm
Inner diameter (A) of exhaust sockets is : 22mm +0.3 / 0.3 mm

B measurement : minimum 16.80 mm
C measurement : minimum 18.50 mm

Modification is not allowed.

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

Fit the template (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.



2.42 / Gear / Sprocket

Engine sprocket : Dry condition 13T / Wet condition 12T with wording “Rotax”
Rear sprocket type 219. Ratio is free.