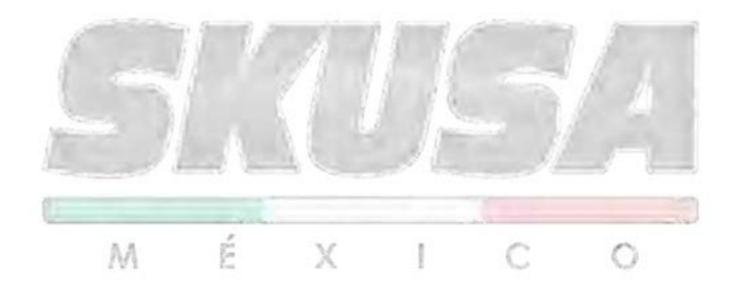
## TECHNICAL REGULATIONS EAT 50CC



# **SKUSA MEXICO**

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1.1 BABY COMER 50cc / IAME M1

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BABY

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CYLINDER 3.4

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PIN 3.8

CYLINDER

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COVERS (CASES)

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## **1. BABY CATEGORY**

1.1. BABY COMER 50cc / IAME M1 Category reserved for pilots from 4 to 7 years old, in the case of pilots who do not comply with the above, they must have written authorization from the steering committee of the SKUSA MÉXICO Championship.

## 2. OFFICIAL WEIGHTS

2.1. BABY 70 Kgs COMER 50cc / IAME M1

## 3. COMER 50cc ENGINE

3.1. ENGINE: OEM stock only without any modification in any of its parts. This category is OEM stock in all its parts.

3.2. SPARK PLUG: NGK BPMR6ANGKR only.

3.3. CYLINDER/ENGINE HEAD: OEM COMER 50cc without any modifications, rebuilt and re-nicasil cylinders are prohibited, as well as porting, joning, roughing, scoring at the base of the cylinder or adding material to the cylinder's internal parts. The cubic capacity of the combustion chamber cannot be less than 6.7cc. Taking as measurements the illustrations in the COMER 50cc specifications annex.

The cubic capacity of the combustion chamber cannot be less than 6.7cc. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.4. RESTRICTOR, INTAKE AND EXHAUST:

ADMISSION RESTRICTOR: The use of an admission restrictor is mandatory with the following measurements inside; 19.9390 mm long by 13.2538 mm high by 1,900 mm thickness (with a tolerance of 0.254 mm) with black anodizing the loss of anodizing of its interior will be grounds for sanction as stipulated in the general regulations of the SKUSA MEXICO Championship.

EXHAUST RESTRICTOR: The use of the exhaust restrictor is mandatory with the

following measurements inside; 25,400 mm long X 12,700 mm high X 1,900 mm thick (with a tolerance of +.254 mm) with black anodizing the loss of the anodizing inside will be

reason for sanction as stipulated in the Technical or General Regulations of said category.

3.5. PISTON: OEM for COMER 50cc stock only, no treatment or modification is allowed, and must have a height taken from the piston skirt to

the top of the 40.6mm piston. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.6. RING: OEM for COMER 50cc stock only, the use of 2 rings is mandatory, no treatment or modification is allowed. It must have a thickness of 1.47mm +/- 0.02mm. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.7. PIN: OEM for COMER 50cc stock, no modification is allowed in weight, size and shape. With a length of 32.8mm +/- 0.2mm and an outer diameter of 10mm +/- 0.2mm and inner diameter of 6mm +/- 0.5mm. Taking as measurements the illustrations in the COMER 50cc specifications annex.

#### 3.8. CYLINDER BASE PACKING: Free

3.9. CRANKSHAFT AND CONNECTING ROD: OEM for COMER 50cc stock without any modification with a total weight with piston, pin, clips and rings of 670grs minimum. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.10. BEARINGS, CRANKSHAFT SEALS: Original OEM COMER 50cc and can be replaced by their equivalent from a different brand or supplier (the use of ceramic bearings or exotic materials is not permitted).

3.11. CLUCTH. – Original OEM COMER 50cc Without any type of modification or addition of material. The clutch pads body and the clutch bell must not contain excessive grease or oil and must maintain their original position. Any treatment on the clutch pads is prohibited. Re-pasting of the clutch pads is not permitted.

#### In the clutch test the clutch must not exceed 3700 rpm

The minimum weight of the clutch hub must be 113 grams, with a height of 9.7mm +/- 0.1mm and a minimum width of 49.5mm, without any machining or modification.

The inner diameter of the clutch bell is 86.6mm maximum.

The minimum weight of the springs is 5.6 grams and the maximum weight is 5.9 grams, with a thickness of 2.0mm +/- 0.05mm, with 8.5 turns in the spring.

Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.12. ENGINE COVERS (CASES): ENGINE COVERS (CASES): Original OEM COMER 50cc made of aluminum material without any type of modification or machining inside, with a minimum internal diameter of 67.2mm, and a minimum height taking the bearing as the center of 45.9mm, packing between the CASES is NOT allowed. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.13. CARBURETOR: Original OEM COMER 50cc Dellorto SHA 14-12L original, without any modification, with the upper hole of the emulsion tube a maximum diameter of A=1.25mm.

The lower holes of the emulsion tube must have a maximum diameter of B=0.80mm. Taking as measurements the illustrations in the COMER 50cc specifications annex

The main nozzle is free. The venturi will be measured with a tool or it should not enter Measure 0.476" "No-Go"

3.14. GASOLINE AND OIL: Premium, with free oil mix. (Forbidden e.g. oxygenates, alcohols of any kind or octane boosters etc.). It will be checked with the digatron. The maximum measurement will be established in each event by the technical director. The oil for gasoline mix provided by the SKUSA MEXICO Championship will be mandatory to use.

3.15. AIR FILTER: The use of a cone or cylindrical type air filter will be mandatory for this category. It is NOT permitted to burn or remove the textile and/or metal filter cloth.

3.16. STATOR: Original OEM COMER 50cc. Without any modification or machined, with a maximum wedge opening of 2.39mm.

With a FJ2007 model steering wheel, without any type of modification or machining, with a minimum weight of 378grs, without nuts, washers, bolts or screws.

3.17. COIL: Original OEM COMER 50cc. Original only without any type of modification or machining, black color, with a diameter of the fixing screws of 5mm wide and 7mm long as maximum.

#### 3.17.1 IGNITION TIME

-Remove the spark plug

-Remove the cover (ignition) -install the

measuring instrument into the spark plug hole

-The measuring clock must be at zero (0)

-The zipper must be rotated counterclockwise until the first magnet

is exposed to the left of the coil.

- Observe the edge of the coil. The edge on the left side (closest part to the center) lines up exactly with each other. The union of these two pieces will determine the timing for ignition.

-Rotate the rack again clockwise now to align it with the magnet on the left side of the mounting edge. The edge of the edge on both sides should read (RH) .050" to .060"

3.18 EXHAUST: Original OEM COMER 50cc, only the undrilled exhaust is allowed, without any type of modification, with a maximum inlet width of 25.7mm and a maximum length of 13.2mm, with an exhaust outlet diameter of 3mm maximum width by 12.5mm maximum length. Taking as measurements the illustrations in the COMER 50cc specifications annex. The measurement of the outlet diameter for the exhaust will be 0.110 "x 0.475" measured with a "No-Go" tool.

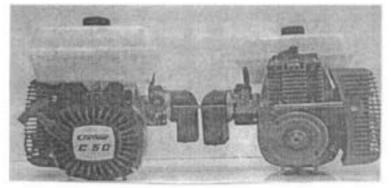
3.18. FRONT AND REAR GEAR (Front pitch in CLUTCH): 10 teeth, (Rear pitch): 89 teeth, which may be original or aftermarket (non-original).

The schematic diagram of the COMER 50cc engine and its components is attached to these technical regulations of the BABY category for better identification and application of these regulations, forming part of these regulations **ANNEX** A.

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MSA 50CC Comer specification Sheet -158677/B & 158677/A

## **ENGINE TYPE EAT THAT**



#### TECHNICAL CHARACTERISTICS

 BORE
 40MM

 STROK E
 38MM

 DISPLACEMENT
 48CC

 FUEL
 4%MIX

 IGNTION
 ELECTRONIC

 SPARKPLUG SHORT THREAD CLUTCH CENTRIFUGAL
 3 PIECE

 PINION
 10 TOOTH 219 PITCH

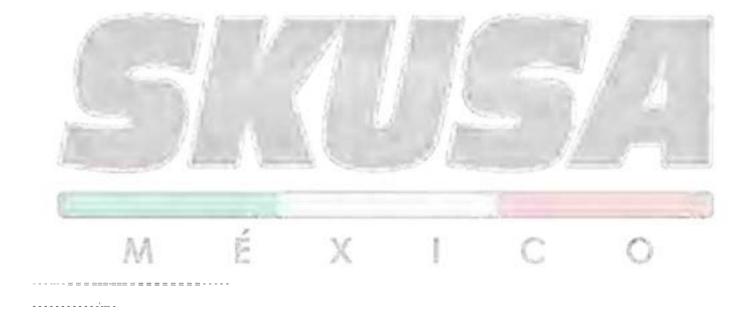
 CARBURETOR
 ORTO SHA-14-12L

 GYL/NDER
 ALUMINUM MINIKASIL

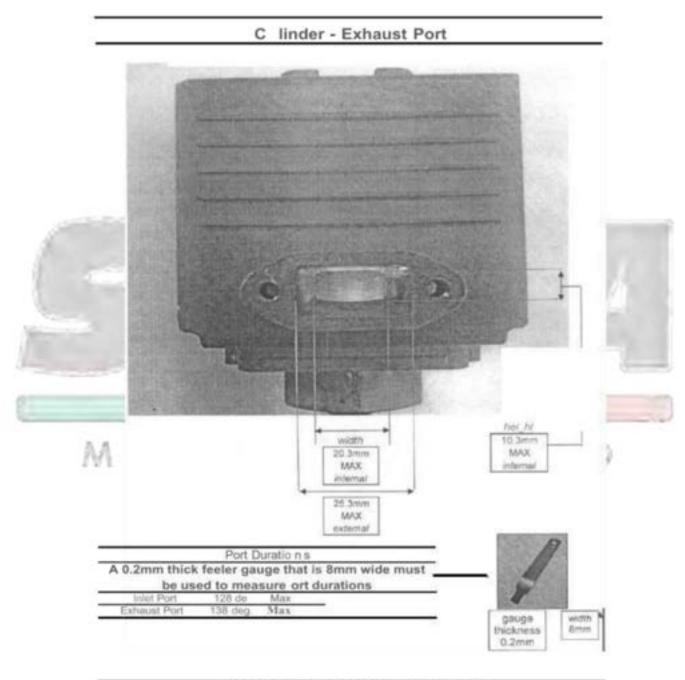
 MANUFACTURER
 COMERSPA

 MODEL
 C50

1586TT/B

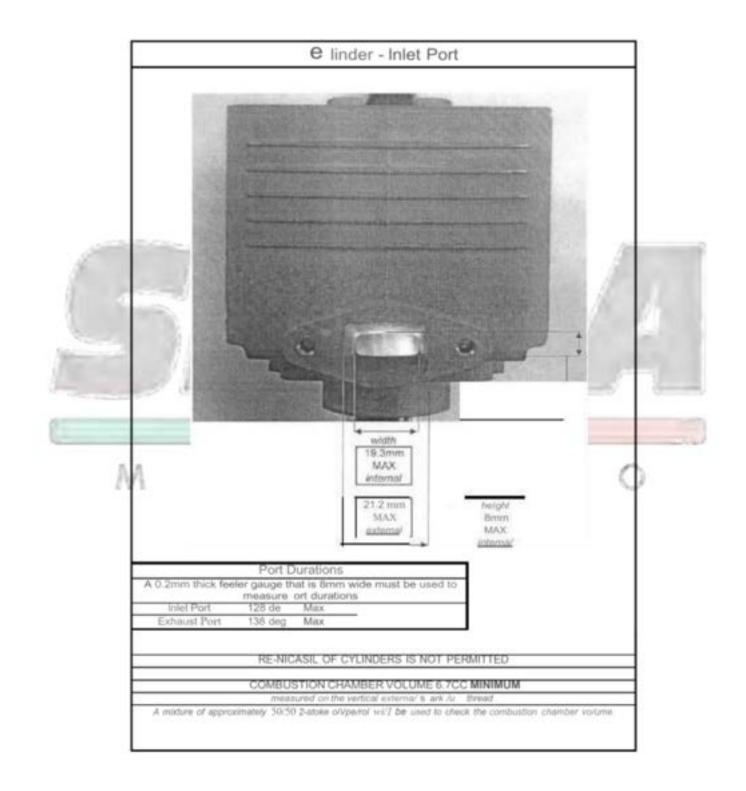


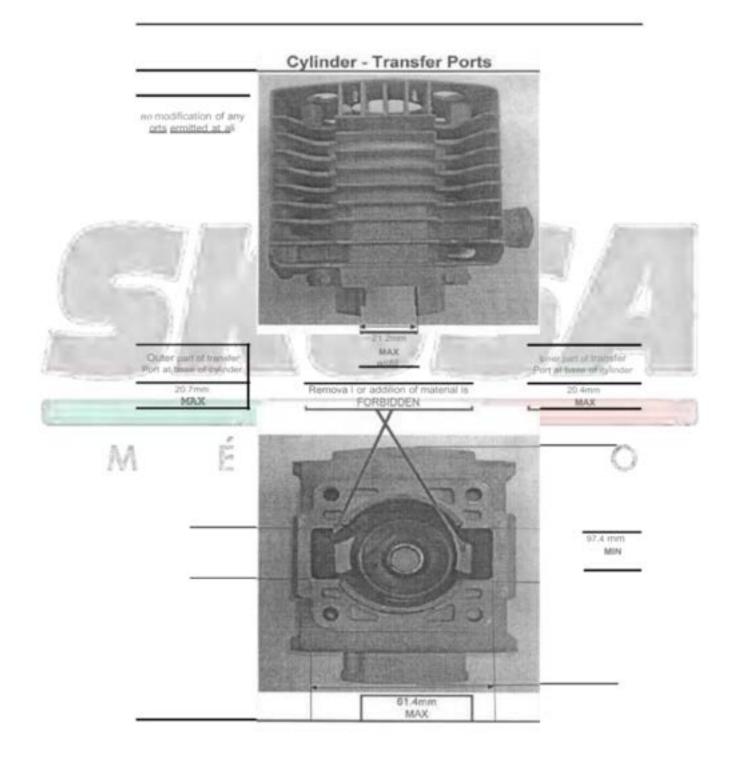
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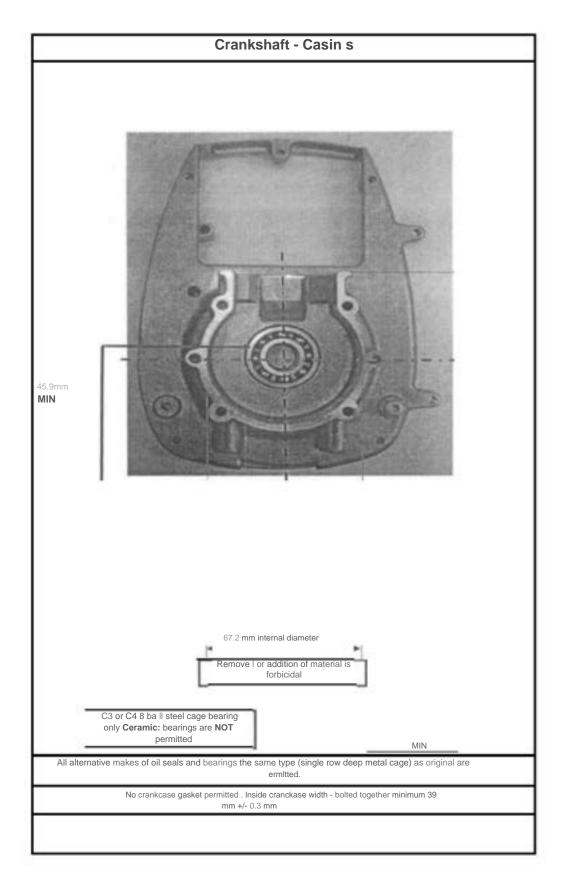


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	1	7NEASU/10	d on th	e vertica	s/ exterr	NN 5 1	ekp/u t	fwiead.		
A minute	of approximistely	50150 3	2-altoke -	o/Vpet/cal	will be	used h	o pheck	the combustion	chamber	VO/UTIØ

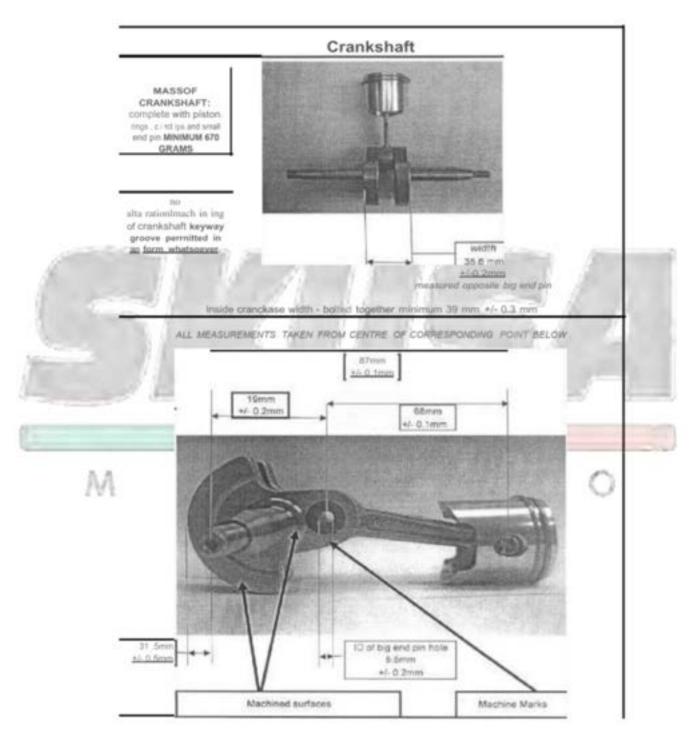
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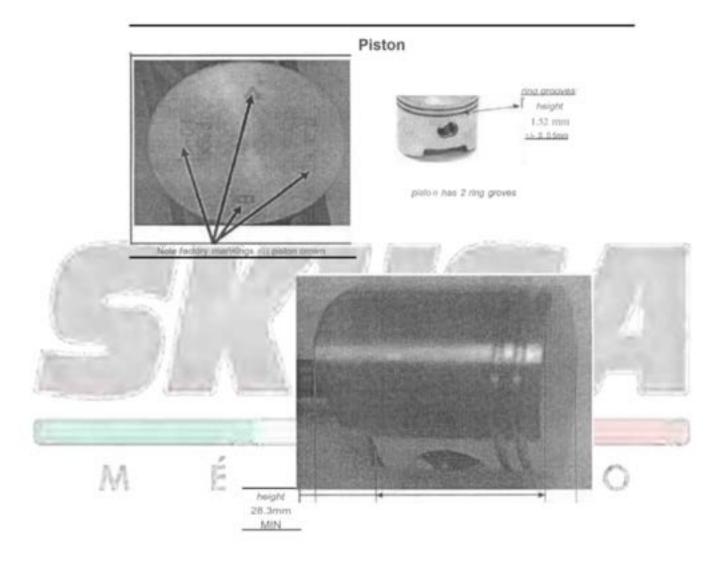


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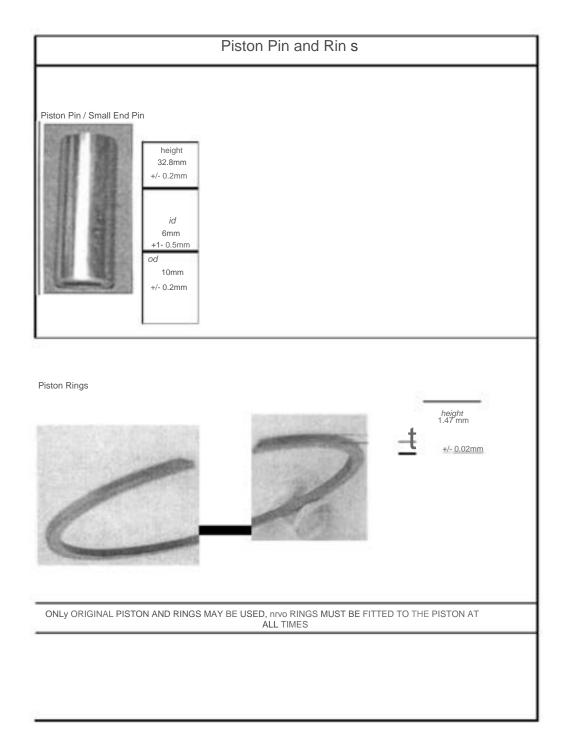
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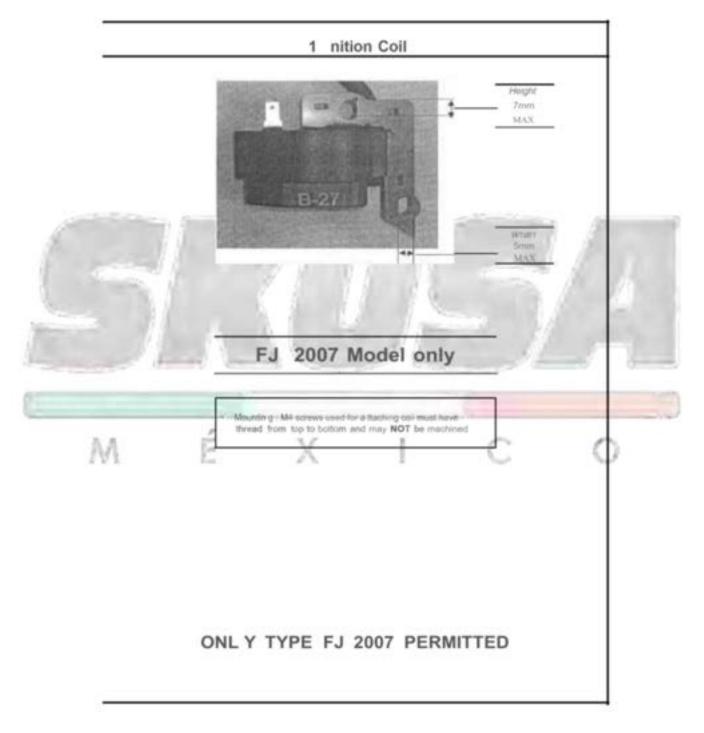
<i>height</i> 38.6mm MIN	
overa// heig/ Jt of piston 40.6mm MIN	



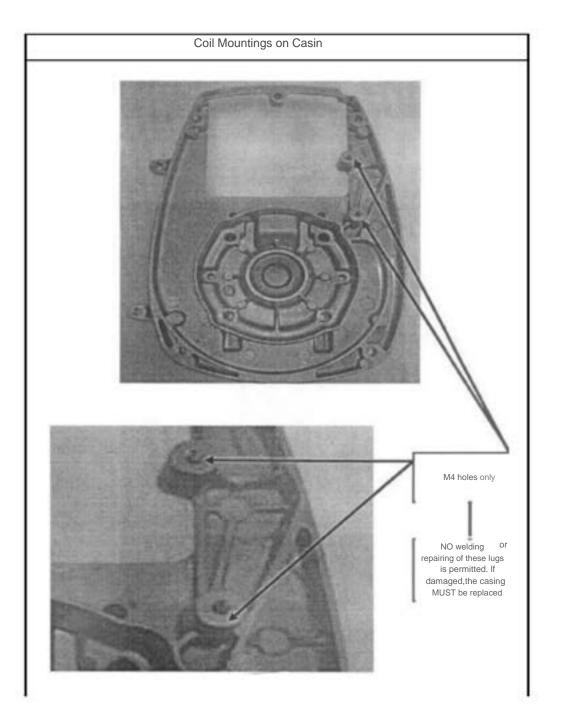
11 is only permissible to machine the bottom skirt of the pislon to the minimum heights as stated above. No further machinin or modi in of the iston in an other area is ermitted.

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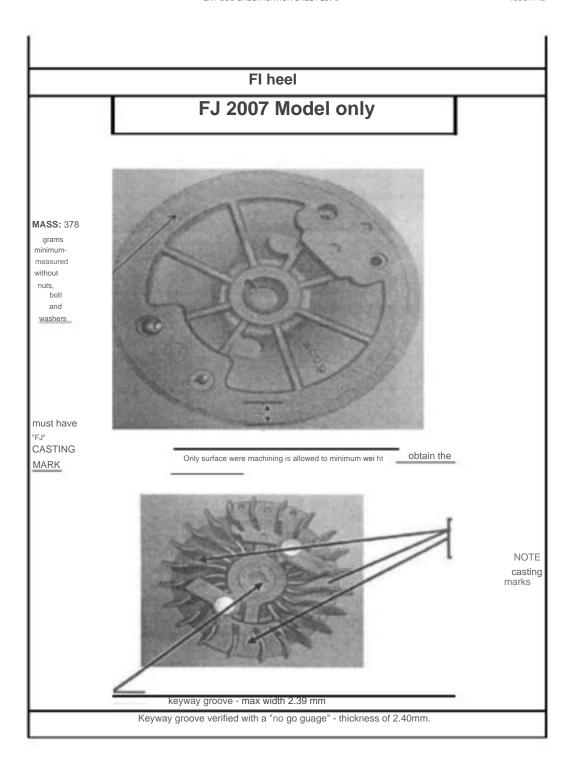


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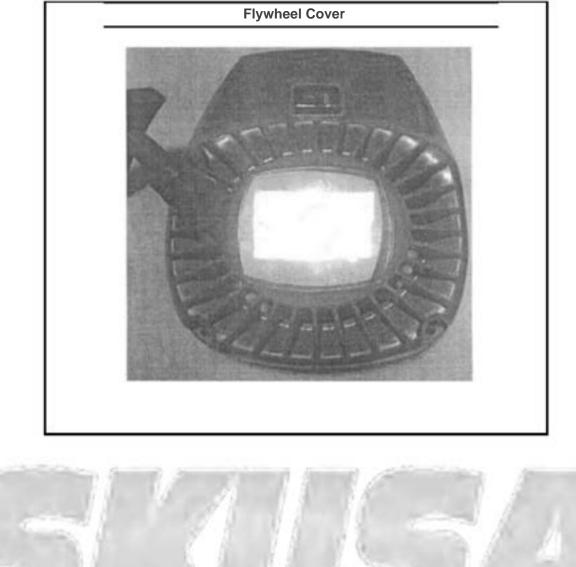


FI heel Woodruff Ke and Starter Cover
Flywhee I Woodruff Key
The flywheel key may be removed completely. There is no further specification on the k<>yway if used .
tion time inverse key may be removed completely. There is no further specification on the k<>yway if used .

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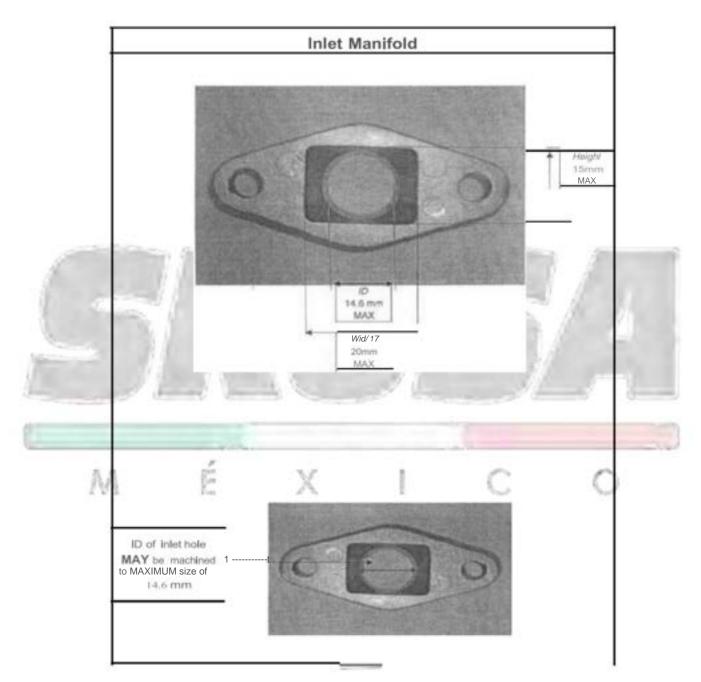
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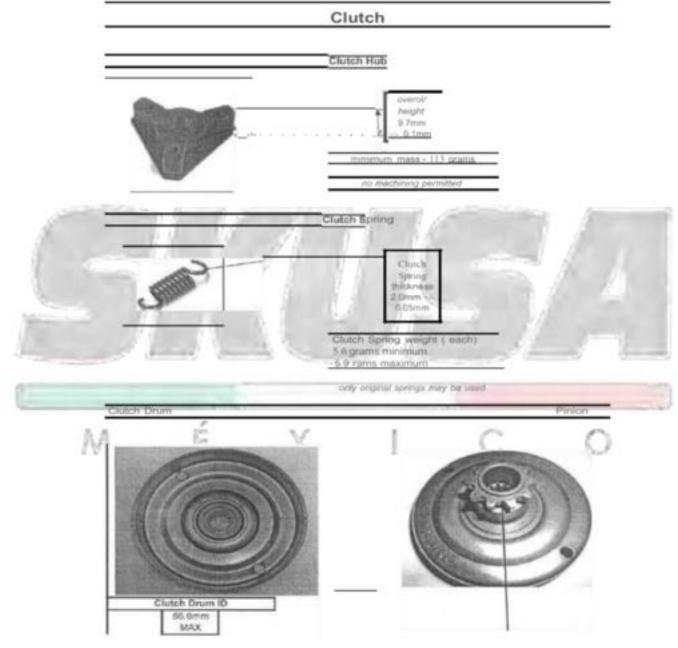
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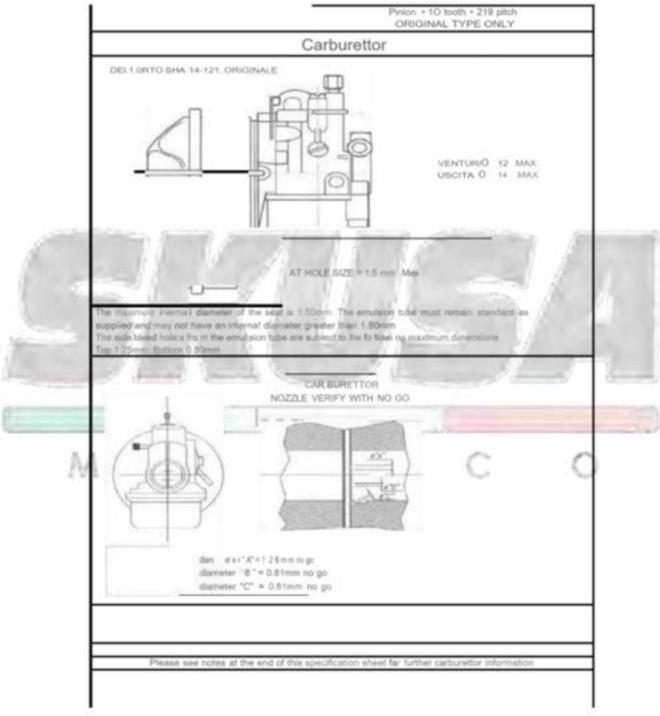
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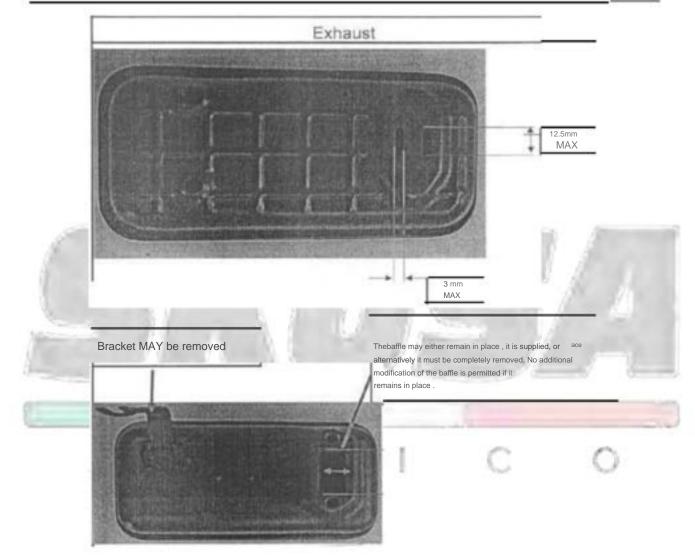
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ANNEX A 3. COMER 50cc ENGINE

3.1. ENGINE: OEM stock only without any modification in any of its parts. This category is OEM stock in all its parts.

3.2. SPARK PLUG: NGK BPMR6ANGKR only.

3.3. CYLINDER/ENGINE HEAD: OEM COMER 50cc without any modification is prohibited to have rebuilt and re-nicasil cylinders as well as porting, joning, roughing, scoring at the base of the cylinder or adding material to the cylinder's internal parts. The cubic capacity of the combustion chamber cannot be less than 6.7cc. Taking as measurements the illustrations in the COMER 50cc specifications annex. The cubic capacity of the combustion chamber cannot be less than 6.7cc. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.4. RESTRICTOR, INTAKE AND EXHAUST: INTAKE RESTRICTOR: It is mandatory to use an intake restrictor with the following internal measurements; 19.9390 mm long by 13.2538 mm high by 1.900 mm thick (with a tolerance of 0.254 mm) with black anodizing. Loss of the anodizing on the inside will be grounds for a penalty as stipulated in the general regulations of the SKUSA MEXICO Championship. EXHAUST RESTRICTOR: It is mandatory to use the exhaust restrictor with the following internal measurements; 25.400 mm long X 12.700 mm high X 1.900 mm thick (with a tolerance of +.254 mm) with black anodizing. Loss of the anodizing on the inside will be grounds for a penalty as stipulated in the restrict or the inside will be grounds for a penalty as stipulated in the inside will be grounds for a penalty as stipulated in the inside will be grounds for a penalty as stipulated in the restrict or the inside will be grounds for a penalty as stipulated in the inside will be grounds for a penalty as stipulated in the restrict or the inside will be grounds for a penalty as stipulated in the restrict or the inside will be grounds for a penalty as stipulated in the restrict or the inside will be grounds for a penalty as stipulated in the restrict or the inside will be grounds for a penalty as stipulated in the Technical or General Regulations of said category.

3.5. PISTON: OEM for COMER 50cc stock only, no treatment or modification is allowed, and must have a height taken from the piston skirt to the top of the piston of 40.6mm. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.6. RING: OEM for COMER 50cc stock only, use of both rings is mandatory, no treatment or modification is permitted.

It must have a thickness of 1.47mm +/- 0.02mm. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.7. PIN: OEM for COMER 50cc stock, no modification is allowed in weight, size and shape. With a length of 32.8mm +/- 0.2mm and an outer diameter of 10mm +/- 0.2mm and inner diameter of 6mm +/- 0.5mm. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.8. CYLINDER BASE PACKING: Free

3.9. CRANKSHAFT AND CONNECTING ROD: OEM for COMER 50cc stock without any modification with a total weight with piston, pin, clips and rings of 670grs minimum. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.10. BEARINGS, CRANKSHAFT SEALS: Original OEM COMER 50cc and can be replaced by their equivalent from a different brand or supplier (the use of ceramic bearings or exotic materials is not permitted).

3.11. CLUCTH. – Original OEM COMER 50cc Without any type of modification or addition of material. The clutch pads body and the clutch bell must not contain excessive grease or oil and must maintain their original position. Any treatment on the clutch pads is prohibited. Re-pasting of the clutch pads is not permitted. In the clutch test the clutch must not exceed 3700 rpm. The minimum weight of the clutch hub must be 113 grams, with a height of 9.7mm +/- 0.1mm and a width of 49.5mm as a minimum, without any type of machining or modification. The inner diameter of the clutch bell is 86.6mm as maximum. The minimum weight of the springs is 5.6 grams and maximum weight 5.9 grams, with a thickness of 2.0mm +/- 0.05mm, with 8.5 turns of the spring. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.12. ENGINE COVERS (CASES): ENGINE COVERS (CASES): Original OEM COMER 50cc made of aluminum material without any type of modification or machining inside, with a minimum internal diameter of 67.2mm, and a minimum height of 19.5mm.

Taking the 45.9mm bearing as the center, packing between the CASES is NOT allowed. Taking as measurements the illustrations in the COMER 50cc specifications annex.

3.13. CARBURETOR: Original OEM COMER 50cc Dellorto SHA 14-12L original, without any modification, with the upper hole of the emulsion tube a maximum diameter of A=1.25mm. The lower holes of the emulsion tube must have a maximum diameter of B=0.80mm. Taking as measurements the illustrations in the COMER 50cc specifications annex The main jet is free. The venturi will be measured with a tool or it must not enter measurement 0.476" "No-Go"

3.14. GASOLINE AND OIL: Specified in the sporting regulations with a 20:1 mixture.

3.15. AIR FILTER: The use of a cone or cylindrical type air filter will be mandatory for this category. It is NOT permitted to burn or remove the textile and/or metal filter cloth.

3.16. STATOR: Original OEM COMER 50cc. Without any modification or machining, with a maximum opening for the shim of 2.39mm.

With a FJ2007 model steering wheel, without any type of modification or machining, with a minimum weight of 378grs, without nuts, washers, bolts or screws.

3.17. COIL: Original OEM COMER 50cc. Original only without any type of modification or machining, black color, with a diameter of the fixing screws of 5mm wide and 7mm long as maximum.

3.17.1 IGNITION TIMING -Remove the spark plug -Remove the cover (ignition) -Install the measuring instrument in the spark plug hole -The measuring dial should be at zero (0) -The rack should be rotated counterclockwise until the first magnet is exposed to the left of the coil. -Observe the edge of the coil. The edge on the left side (part closest to the center) lines up exactly with each other. The union of these two pieces will determine the timing for ignition. -Rotate the rack again now

clockwise to align with the magnet with the left side of the mounting edge. The edge of the edge on both sides should read (RH) .050" to .060"

3.18 EXHAUST: Original OEM COMER 50cc, only the undrilled exhaust is allowed, without any type of modification, with a maximum inlet width of 25.7mm and a maximum length of
13.2mm, with an exhaust outlet diameter of 3mm maximum width by 12.5mm maximum length.
Taking as measurements the illustrations in the COMER 50cc specifications annex. The measurement of the outlet diameter for the exhaust will be 0.110 "x 0.475" measured with a "No-Go" tool.

3.19 FRONT AND REAR GEAR (Front pitch in CLUTCH): 10 teeth, (Rear pitch): 89 teeth, which may be original or aftermarket (non-original).

#### 5. CHASSIS

#### 5.1. CHASSIS: PUFFO or BABY KART type.

5.2. TRACK WIDTH (rear axle): Maximum 1120mm, rear axle (the measurement will be taken from the outer face of the rim including the rear tires, no part of the kart may exceed the maximum measurement of 1120mm.

5.3. AERODYNAMICS: Original without modifications.

5.4. RIMS AND TIRES: Maximum width of rims and tires combination must not exceed 33.25" in running circumference.

5.5. DRY TIRE TIRES: EVINCO SKH Brand (Blue)

5.6. RAIN TIRES: Free.

5.7. CHAIN COVER: Mandatory (failure to use it will result in a penalty).

5.8. BODYWORK: The only bodywork permitted must be plastic with the following homologations CIK, FIK or IKF/WKA consisting of side pontoons, rear bumper and front bumper. No part of the kart may exceed the track width permitted in point 4.2 of the regulations.

5.9. REAR SAFETY FENDER: Mandatory CIK FIA or IKF/WKA Plastic.

### 6. ENGINE CLAIM

6.1. Any competitor (pilot of the same category only) may claim the engine from another competitor under the following conditions: THERE IS NO PROTEST OF ENGINE

The claimant must claim the engine in writing from the driver of the claimed engine before the final race has finished and must have deposited the amount stipulated in paragraph C in cash to the director of

SKUSA MEXICO and its written claim subject to what is described below:

A) The claimed engine will be marked and photographed for identification and must be used on at least two dates of the SKUSA MÉXICO Championship in the calendar year. If the claim is on the last date of the calendar year, it must be submitted on at least two dates of the following SKUSA MÉXICO championship.

B) The claimed engine will have and must pass the technical inspection. (This does not guarantee that the engine will pass any technical inspection in the future), the above must be reported to the claimant.

C) The claiming pilot shall pay the claimed engine pilot the amount of

\$1,500.00 in cash or its equivalent in national currency at the exchange rate of the Bank of Mexico.

D) The claimed engine will be delivered to the claiming driver under the supervision of the Technical Director and the Race Director.

E) The claimed engine must include: Engine, clutch, carburetor, air filter (kidney), exhaust system, electrical harness, relay and switches, does not include: engine base or chain.

F) If there are several pilots claiming the same engine, it will be raffled off the engine between the drivers claiming said engine.

Failure to deliver the claimed engine to the claimant driver will result in loss of points (zero points) from the trophies of the date where the claim occurred for the claimed driver and the corresponding provisions of point 19.5 of the general regulations of the SKUSA MÉXICO Championship will be applied and the general director of the event may, at the discretion of the driver, suspend the driver for the remainder of the championship.

SKUSA MEXICO Championship will have the first right of claim on any claim that exists on said engine at an economic value of 1,300 dollars or its equivalent in national currency at the exchange rate of the Bank of Mexico.

NOTE: The Technical Director will disqualify a competitor visually, and only in case of doubt will the Technical Director resort to the measures of these Technical Regulations.

These regulations will be in force from the date of publication in March 2020, and may be modified by the technical council of the SKUSA MÉXICO Championship for its best operation.