HOMOLOGATION OF KART ENGINE

<table>
<thead>
<tr>
<th>Category</th>
<th>Bambino</th>
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<tbody>
<tr>
<td>Manufacturer</td>
<td>Comer SpA</td>
</tr>
<tr>
<td>Model</td>
<td>C50</td>
</tr>
<tr>
<td>Valid From</td>
<td>18 November 2013</td>
</tr>
<tr>
<td>Number of pages</td>
<td>11</td>
</tr>
</tbody>
</table>

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

Photo of drive side of engine

Photo of opposite side of engine

SIGNATURE AND STAMP OF THE MSA

Date: 25 November 2013
Signed by: Joe Hickerton
Position: MSA Technical Administrator

Any reproduction must be authorised by the MSA
**LIST OF APPENDICES**

<table>
<thead>
<tr>
<th>No.</th>
<th>Type</th>
<th>Description</th>
<th>Pg No.</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Additional Info</td>
<td>Inlet restrictor</td>
<td>10</td>
<td>31 October 2014</td>
</tr>
<tr>
<td>2</td>
<td>Variant</td>
<td>Alternative clutch</td>
<td>11</td>
<td>01 January 2020</td>
</tr>
</tbody>
</table>

Last updated: 01 January 2020
**TECHNICAL FICHE**

<table>
<thead>
<tr>
<th>Trademark</th>
<th>Type: C 50</th>
</tr>
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<tbody>
<tr>
<td>Manufacturer: COMER SpA</td>
<td></td>
</tr>
<tr>
<td>42011 Bagnolo in Piano (RE)</td>
<td></td>
</tr>
<tr>
<td>ITALY</td>
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</tbody>
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**TECHNICAL INFORMATION**

<table>
<thead>
<tr>
<th>BORE / 40 mm</th>
<th>Fuel -Mix 4%</th>
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</thead>
<tbody>
<tr>
<td>STROKE / 38 mm</td>
<td>Ignition -Electronic</td>
</tr>
<tr>
<td>DISPLACEMENT / 48 cc.</td>
<td>Spark plug -Short Thread</td>
</tr>
<tr>
<td>Clutch -Centrifugal 3 pieces</td>
<td></td>
</tr>
<tr>
<td>Sproket −Z 10</td>
<td></td>
</tr>
<tr>
<td>Carburettor -DELL’ORTO SHA -14-12L</td>
<td></td>
</tr>
<tr>
<td>Cylinder -Alluminium/Nicasil or chromed</td>
<td></td>
</tr>
</tbody>
</table>

Locking devices and fixtures may be replaced with NON original parts.
CYLINDER

COMBUSTION CHAMBER: 7.1 cm³ minimum
Measured with W60 head volume adaptor measured with digital burette.

COMBUSTION CHAMBER: 7.4 cm³ minimum
Measured with glass burette and W60 volume adapter.

CYLINDER DIAGRAM

MEASURED WITH FEELER GAUGE WIDTH
8 mm  THICKNESS 0.2 mm

INTAKE  128° Max
EXHAUST  140° Max

CYLINDER SUPPORTING SURFACE

BASE GASKET
THICKNESS - FREE

EXHAUST CYLINDER FLANGE

INTAKE CYLINDER FLANGE

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COMPLETE CRANKSHAFT

CRANKSHAFT BARE WEIGHT WITH SMALL END BEARING

ORIGINAL OIL SEALS MARKED "COMER"

BEARINGS C3 OR C4 WITH IRON CAGE

CRANKSHAFT WITH COMPLETE PISTON

CRANKSHAFT WITH COMPLETE PISTON

COMPLETE CRANKSHAFT

PISTON

PISTON WEIGHT BARE

Nº 2 Piston rings 1,48 ± 0,02
## IGNITION

<table>
<thead>
<tr>
<th>FLYWHEEL</th>
<th>COIL</th>
</tr>
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<tbody>
<tr>
<td>FJ MODEL</td>
<td>FJ MODEL A11</td>
</tr>
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</table>

- **Code FJ 20-07**
- **Code FJ A11 20-07**

**SPARE PART CODE:** C050-453-02  
**SPARE PART CODE:** C050-425-02

- **SPARK PLUGS** – CHAMPION RCJ7Y BOSCH WS5F OR WSR7F

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CRANKCASE

PLAIN

\( \varnothing 67.0 \) Min. internal

\( \varnothing 35 \) BEARING DIAMETER OUTSIDE

45.9 Min.

---

CLUTCH

CLUTCH SPRING
WEIGHT: 5.7g Min
6.1g Max

CLUTCH DRIVE
WEIGHT: 111g Min
123g Max

CLUTCH SHOE

3 \( \times \) CLUTCH SHOES
WITH SPRINGS
WEIGHT: 275Gram
MINIMUM

33 \( \times \) 0.5
9 COILS

---

SPROCKET

SPROCKET "COMER" 10 TEETH PITCH 219

\( \varnothing 86.6 \) MAX
CARBURETTOR

Emulsion Tube ID 1.75 max
Slide No:7 (6108)
Float 3.5gr
Needle Seat ID 1.5max
Main Jet FREE

AIR BOX WITH 1 FILTER MIN

VERIFY CARBURETTOR NOZZLE WITH NO GO GUAGE

MUFFLER

MEASUREMENTS RELATE TO INNER SECTION WHICH MUST BE PARALLEL.

END
Appendix 1
HOMOLOGATION OF KART ENGINE
ADDITIONAL INFORMATION

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INLET RESTRICTOR

END

SIGNATURE AND STAMP OF THE MSA

Date: 31 October 2014
Signed by: Joe Hickerton
Position: MSA Technical Administrator

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Appendix 2

HOMOLOGATION OF KART ENGINE – VARIANT

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</table>

ALTERNATIVE CLUTCH

**CLUTCH**

Clutch weight: 445g min.

END

**SIGNATURE AND STAMP**

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