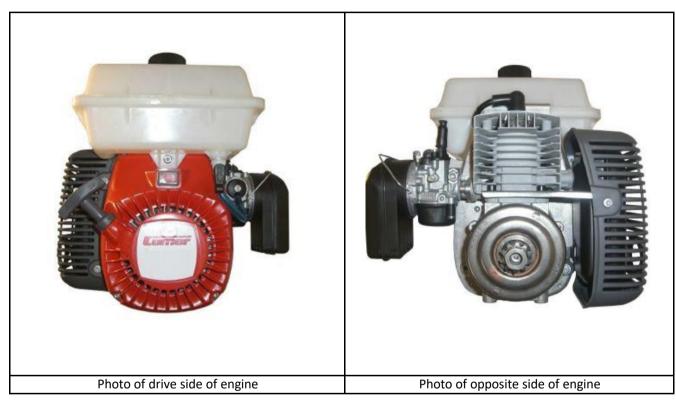


COMER CX52 TECHNICAL REGULATIONS 2022 VERSION 1		
Category	Bambino	
Manufacturer	Comer Spa / EMR	
Model	CX52	
Valid from	01 January 2022	
Number of pages	9	

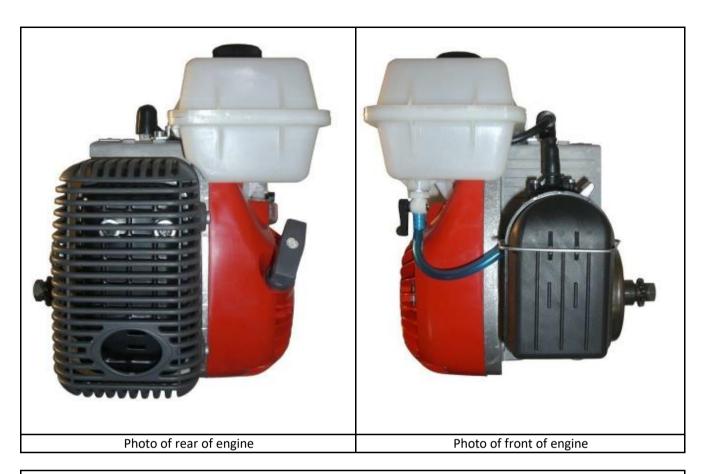
This Homologation Form reproduces descriptions, illustrations and dimensions of the engine at the moment of the MSA Homologation. This document may be supplemented by official amendment. This document must be read in conjunction with the appropriate Class Regulations.



Date: 1 January 2022 Signed by: Allison Vogelsang

Genuine Comer components only that are specifically designed and supplied for the Comer CX52 engine are legal, unless otherwise specified. ANYTHING WHICH IS NOT EXPRESSLY ALLOWED IN THE TECHNICAL REGULATIONS IS FORBIDDEN.









TECHNICAL FICHE

Manufacturer: COMER SpA

Engine Type: CX52





TECHNICAL INFORMATION

Bore40 mmStroke40 mmDisplacement50.2 cc

Fuel / Oil 25:1 (95 Octane mixed with XPS Oil)

Ignition Electronic

Clutch Centrifugal 3 pieces

Front Sprocket 10 Z
Rear Sprocket TBA

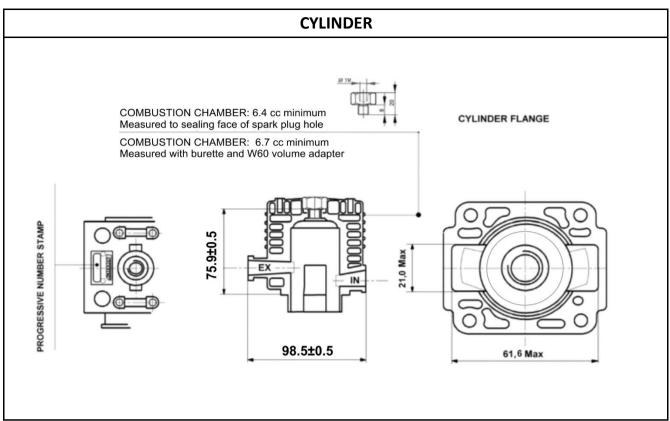
Carburettor DELL'ORTO SHA - 14-12L

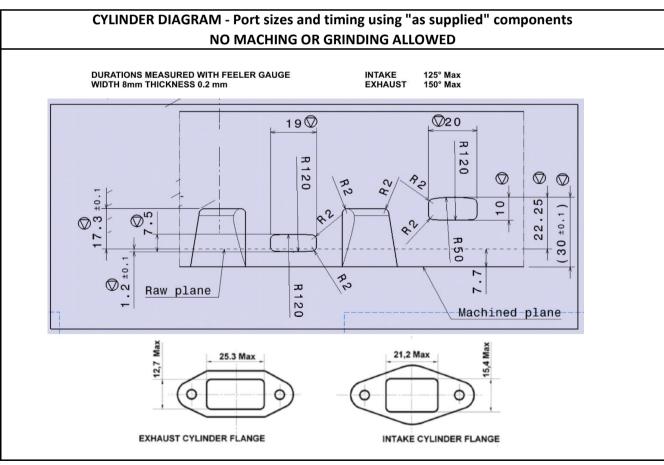
Cylinder Aluminium / Nicasil or chromed - Replating forbidden

Spark Plug CHAMPION RCJ7Y or NGK BPMR7A or BOSCH WS5F

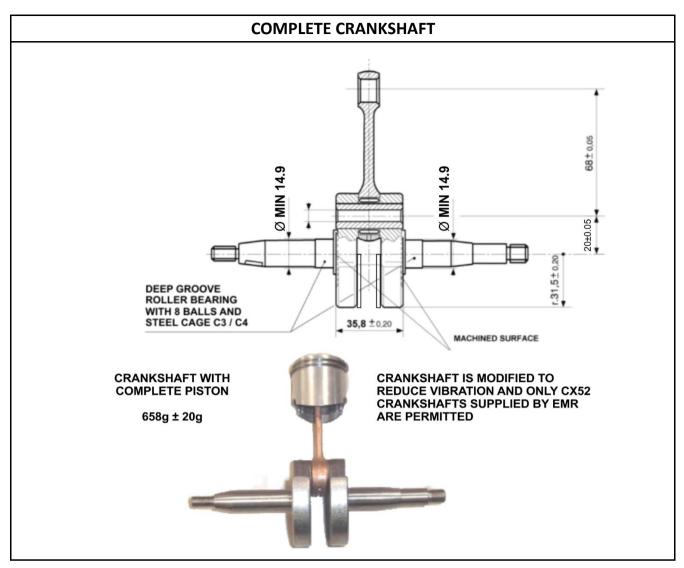
Locking devices and fixtures may be replaced with non original parts. Helicoils may be used. A metal plate maximum 3mm thick may be added to aid engine alignment. An aluminium engine mount with under clamps may also be used to afix the engine to the chassis.

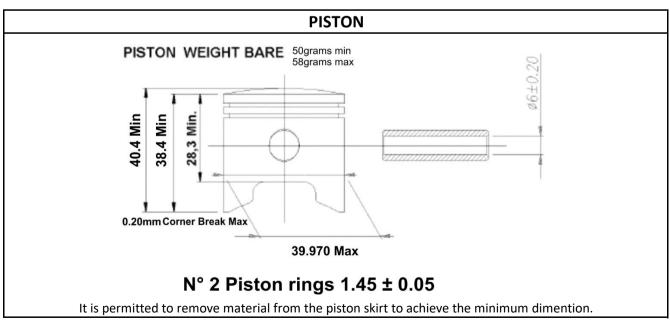








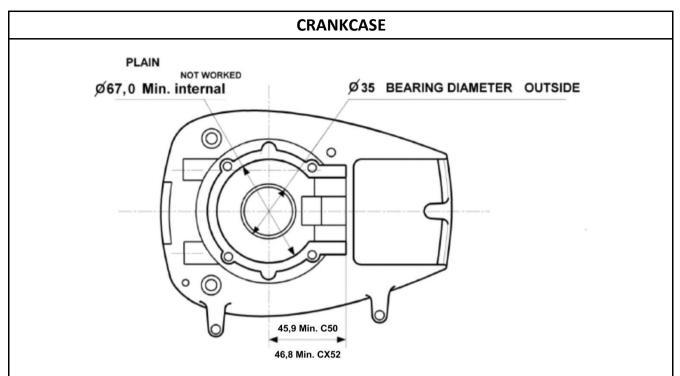




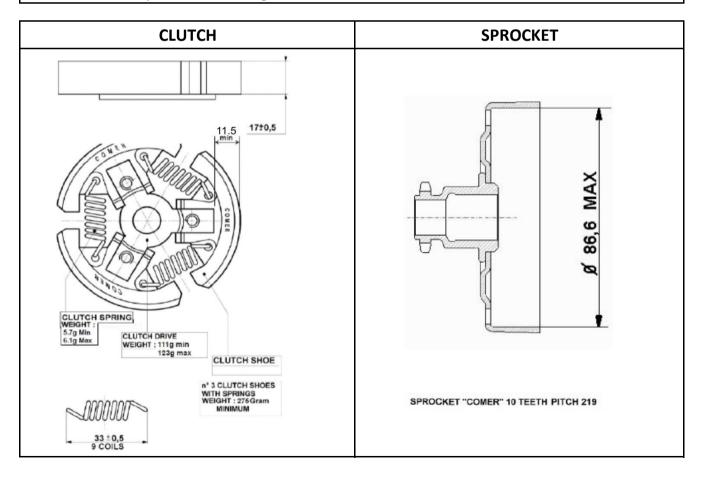


IGNITION		
FLYWHEEL	COIL	
FJ MODEL	FJ MODEL A11 - Code FJ A11 20-07	
	It is permitted to extend the ignition lead to A maximum length of 180 mm between the coil and the start of the plug cap and alternate plug cap may be used.	
0 1 5120.07	SPARE PART CODE: C050-452-02	
Code FJ 20-07	IGNITION TIMING It is permited to omit the woodruff key.	
Weight= 378 min without key 402 max	It is reccomended that the timing be set at 4.00 mm btdc using the leading edge of the trailing magnet (second magnet) lined up with the left hand side of the long lamination leg as reference. The maximum advance allowed is 4.20 mm btdc with no tolerance. It is reccommended that that the nut is torqued to 25Nm. No removal of metal whatsoever.	
SPARE PART CODE: C050-453-02		

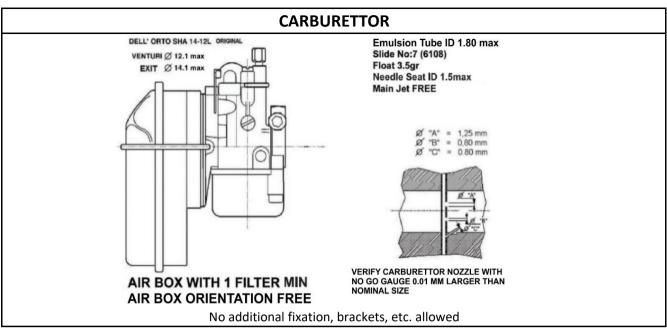


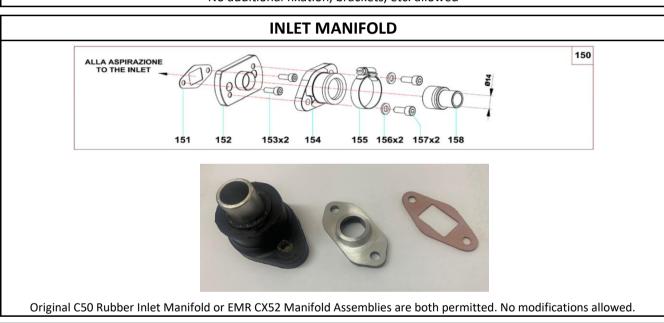


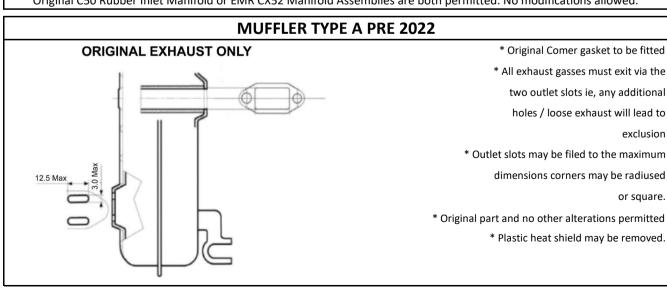
Original C50 Crankcases **must** be used in conjunction with a 0.9 mm steel cylinder base gasket which may be glued to the underside of the cylinder or used with gaskets on either side.







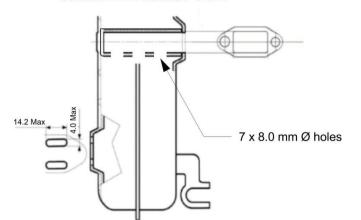






MUFFLER TYPE B 2022

ORIGINAL EXHAUST ONLY



- * Original Comer gasket to be fitted
- * All exhaust gasses must exit via the two outlet slots ie, any additional holes / loose exhaust will lead to

exclusion

* Outlet slots may be filed to the maximum dimensions corners may be radiused

or square.

- * Original part and no other alterations permitted
 - * Plastic heat shield may be removed.

PORT TIMINGS

Port timing measurements will be done with either a digital degree wheel or a graduated disc of minimum 280mm diameter and a pointer that is sharpened to a knife edge. To avoid arguments over parallax errors the pointer should be less than 3mm from face of the degree wheel where the reading is taken. The sharp point must clearly be on the line defining the maximum measurement. The measurement will be taken with all the slack in the system taken up i.e. the crankshaft will be rotated until it gently stops against the feeler gauge.

The feeler gauge will be 0.2mm thick and 8.0mm wide. The feeler gauge will follow the angle on top of the piston for exhaust port measurement and be held flat on the bottom of the inlet port.

Inlet Port duration maximum **125** degrees no tolerance Exhaust Port duration maximum **150** degrees no tolerance

GENERAL

Fuel system: It is permitted to remove the sieve in the fuel tank and enlarge the hole. An inline fuel filter is permitted. It is permitted to use an o-ring or cable ties as an additional fixation for the fuel tank.

Clutch: The engine may not exceed 4 500 rpm before the kart starts to move forward.