



MSA COMER CX52 TECHNICAL REGULATIONS 2023 VERSION 1

Category	Bambino
Manufacturer	Comer Spa / EMR
Model	CX52
Valid from	01 January 2023
Number of pages	9

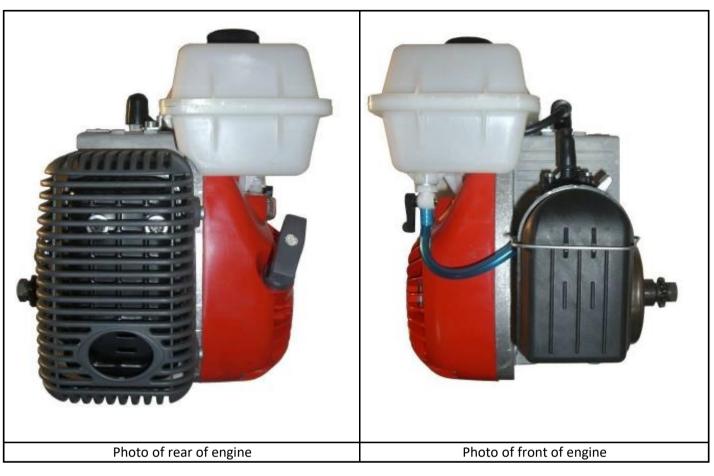
This Homologation Form reproduces descriptions, illustrations and dimensions of the engine at the moment of the MSA Homologation. This document may be supplemented by official amendment. This document must be read in conjunction with the appropriate Class Regulations.



SIGNATURE AND STAMP OF MSA				
	Date:	1 January 2023		
MOTORSPORT SOUTH AFRICA	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.









Lomer

TECHNICAL FICHE

Manufacturer: COMER SpA

Engine Type: CX52



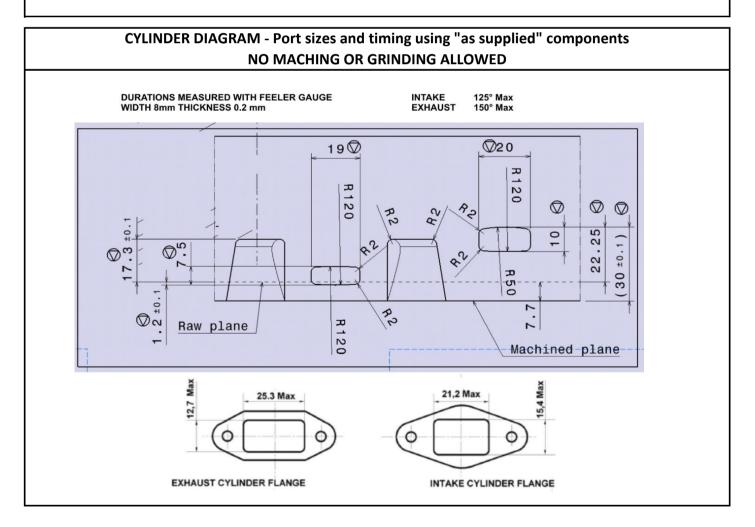
TECHNICAL INFORMATION

Bore	40 mm	
Stroke	40 mm	
Displacement	50.2 cc	
Fuel / Oil	25:1 (95 Octane mixed with specified oil)	
Ignition	Electronic	
Clutch	Centrifugal 3 pieces	
Front Sprocket	10 Z	
Rear Sprocket	74 Z	
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		

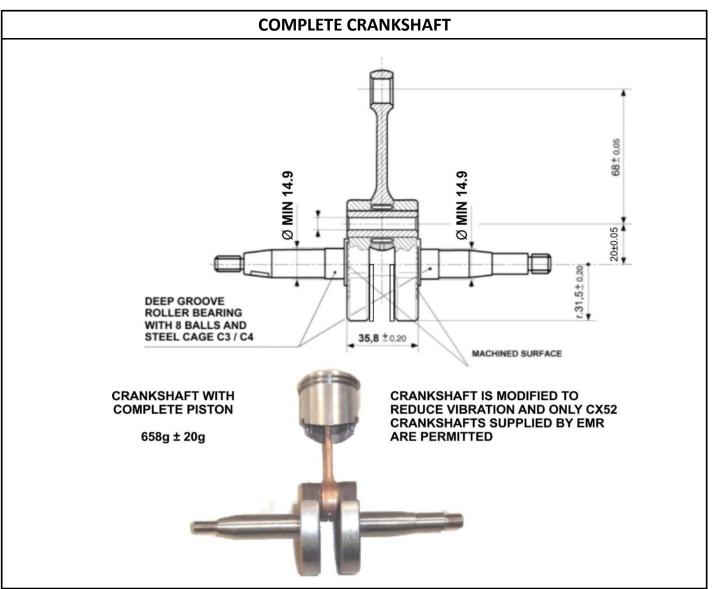
Locking devices and fixtures may be replaced with non original parts. Helicoils may be used. A metal plate maximum 3mm thick may be added to aid engine alignment. An aluminium engine mount with under clamps may also be used to afix the engine to the chassis.

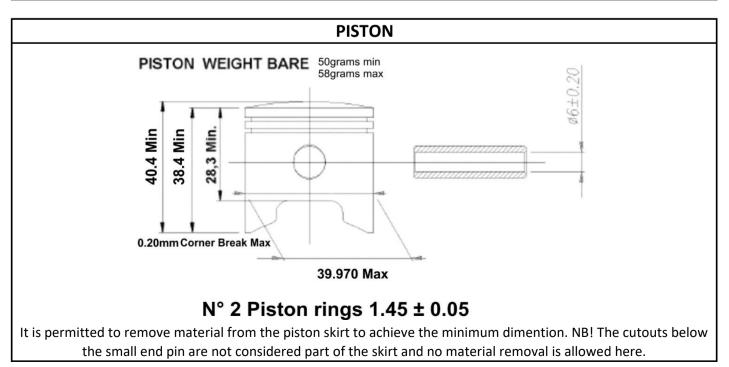


CYLINDER W60 Adapter £0 10 COMBUSTION CHAMBER: 6.4 cc minimum CYLINDER FLANGE Measured to sealing face of spark plug hole COMBUSTION CHAMBER: 6.8 cc minimum Measured with burette and W60 volume adapter NB! The W60 adapter method of measurement will be final and no tolerance will be allowed. PROGRESSIVE NUMBER STAMP 75.9±0.7 Max EX 21,01 98.5±0.5 61,6 Max





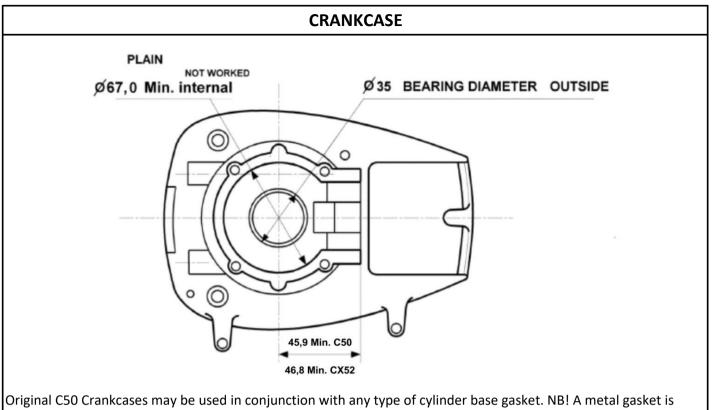




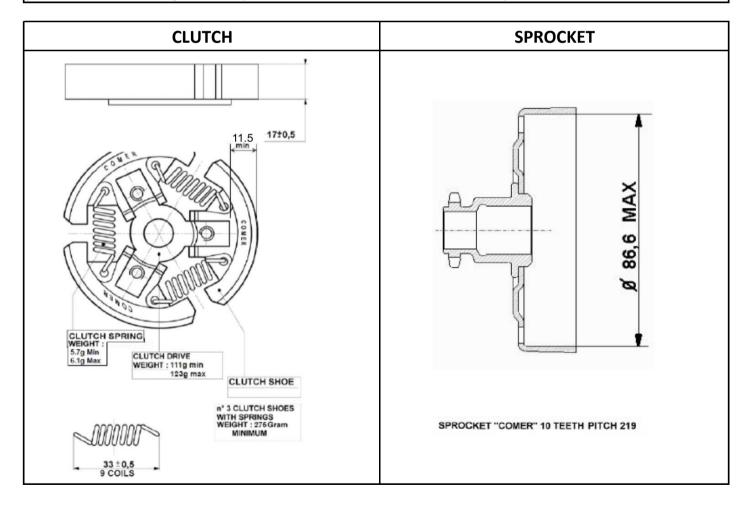


IGNITION		
FLYWHEEL	COIL	
FJ MODEL	FJ MODEL A11 - Code FJ A11 20-07	
	It is permitted to extend the ignition lead to A maximum length of 180 mm between the coil and the start of the plug cap and alternate plug cap may be used. SPARE PART CODE: C050-452-02	
Code FJ 20-07	IGNITION TIMING	
Weight= without key	It is permited to omit the woodruff key. 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		

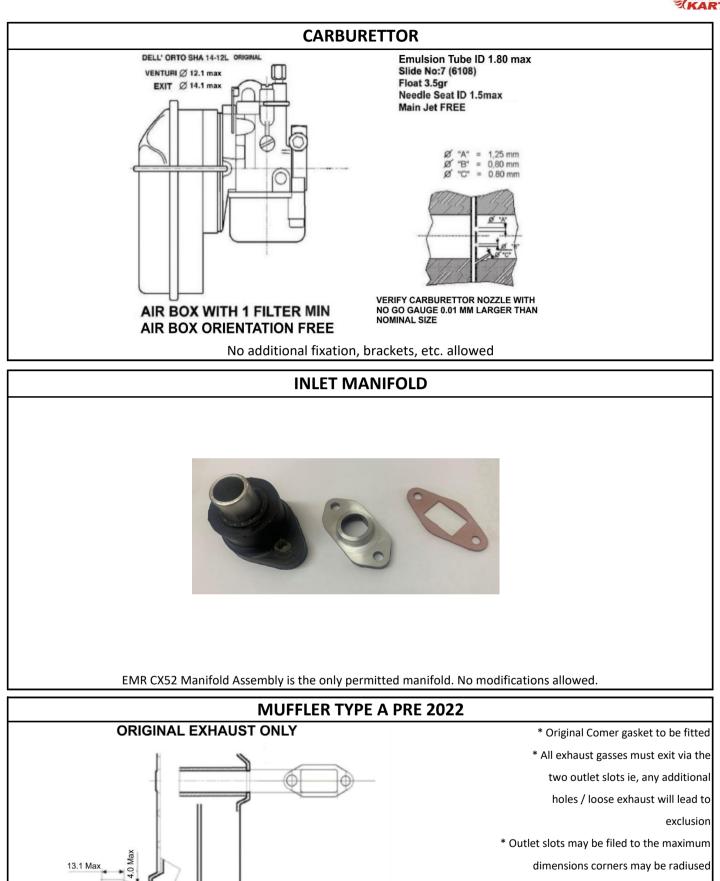




preferable when a thick gasket is required to meet the minimum head volume specification.



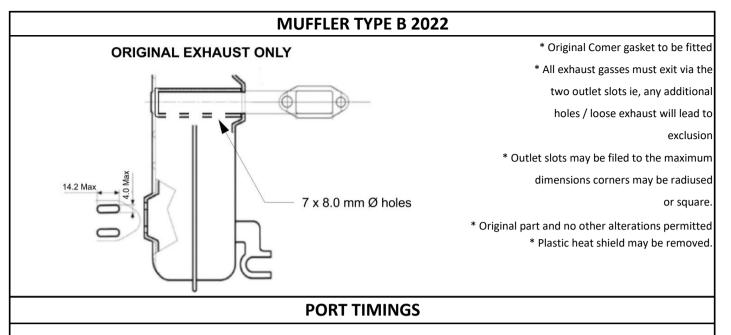




or square.

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





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 oring 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.