

# **BL Motorcycles Ltd**

*Professional Workshop Manual - English Translation*

## **CFMoto - CFMoto Moto CF650NK. Owner\_s Manual. Russian**

### **INTRODUCTION**

Thank you for choosing and purchasing a CFMOTO motorcycle!

Welcome to the global family of owners of our products!

We are proud to present a line of equipment for multipurpose use, active recreation, and sports:

- All-terrain vehicles (ATV)
- Utility side-by-sides (UTV and SSV)
- Touring motorcycles
- Motorcycles
- Scooters
- Vehicles for government needs

CFMOTO, specializing in the development of liquid-cooled engines, is one of the main manufacturers and suppliers of them in China.

Compared to air-cooled engines of the same volume, liquid-cooled engines have more stable thermal characteristics, are more powerful and economical, and also have a longer service life.

This motorcycle is designed not only for enjoyment of riding and travel, but also for work.

In order for the operation of the vehicle to be safe and enjoyable, please follow the instructions and prescriptions contained in this Manual. It sets out the minimum requirements, compliance with which will allow you to keep the equipment in good condition and operate it as safely as possible. All information regarding the repair of CFMOTO equipment is contained in the instructions provided to the service centers of official dealers.

Your official dealer knows your equipment better than others and is ready to satisfy all your claims and service the equipment in the best way. Contact your dealer with all questions related to the repair and operation of CFMOTO equipment.

Do not forget about the need to check the motorcycle systems before each use. Regular maintenance is the key to its safe operation.

This manual is, in a way, an integral part of the vehicle and must be passed on to the new owner upon sale.

We wish you many thousands of kilometers of pleasant and safe riding!

This model meets the standard Q/CFD 004-2011

The user manual meets the standards GB9969.1-1998 GB/T19678-2005

### **IMPORTANT SAFETY INFORMATION**

Your safety and the safety of others are an extremely important factor in the operation of a motorcycle. You must approach its operation with great responsibility. This Manual provides recommendations that should help you in making reasonable decisions on safety, operation, and maintenance. The main recommendations are duplicated in stickers on the motorcycle. Their images and translation of the text are also given in this Manual. This information warns you about

# BL Motorcycles Ltd

*Professional Workshop Manual - English Translation*

potential hazards that could lead to injury or damage to equipment for you or others. You can find important safety information in the text, which is marked with the following symbols and words:

## DANGER

This signal means: "You WILL DIE or BE SERIOUSLY INJURED if you do not follow the instructions."

## WARNING

This signal means: "You CAN DIE OR BE SERIOUSLY INJURED if you do not follow the instructions."

## CAUTION

This signal means: "You CAN be INJURED if you do not follow the instructions."

## NOTE

This signal accompanies the presentation of important information.

## CAUTION

Only persons with sufficient skills and a driver's license with an open category "A" are allowed to operate the motorcycle.

Do not make any "upgrades" to the motorcycle without the consent of the manufacturer.

Any "upgrade" of the motorcycle or its electrical components will not only lead to a change in the functioning of its systems, exhaust gas emission and noise parameters, but also to the termination of warranty obligations.

Do not violate the current legislation and traffic rules when operating the motorcycle.

All the information contained in this Manual is based on the latest data available at the time of development of this document.

CFMOTO reserves the right to make any changes to the product without prior notice and any related obligations.

## TABLE OF CONTENTS

VEHICLE PASSPORT NUMBERS .....	- 1 -
TECHNICAL SPECIFICATIONS .....	- 2 -
LOCATION OF COMPONENTS .....	- 6 -
INFORMATION ON LOAD AND ACCESSORIES .....	- 9 -
IMPORTANT INFORMATION TO LEARN BEFORE GETTING BEHIND THE WHEEL OF A MOTORCYCLE .....	- 10 -
GENERAL INFORMATION .....	- 12 -
RUN-IN .....	- 28 -
HOW TO OPERATE A MOTORCYCLE .....	- 29 -
SAFETY MEASURES WHEN OPERATING A MOTORCYCLE .....	- 40 -
PRE-RIDE CHECKS .....	- 42 -
MAINTENANCE AND ADJUSTMENTS .....	- 45 -
ENGINE OIL .....	- 52 -
COOLING SYSTEM .....	- 58 -
AIR SUPPLY SYSTEM, FUEL-AIR MIXTURE FORMATION .....	- 64 -

# BL Motorcycles Ltd

Professional Workshop Manual - English Translation

THROTTLE HANDLE .....	- 66 -
CLUTCH .....	- 69 -
DRIVE CHAIN .....	- 71 -
BRAKE SYSTEM .....	- 79 -
SHOCK ABSORBERS .....	- 86 -
TIRES .....	- 91 -
BATTERY .....	- 95 -
LIGHTING DEVICES .....	- 99 -
MOTORCYCLE EXTERIOR CARE .....	- 104 -
MOTORCYCLE STORAGE .....	- 108 -
WARNINGS ON PLATES .....	- 110 -
FUEL INJECTION SYSTEM FAULT CODES .....	- 115 -
ELECTRICAL EQUIPMENT SCHEMATIC DIAGRAM .....	- 118 -

## - 1 - VEHICLE PASSPORT NUMBERS

Write down the vehicle passport numbers from the indicated places. Keep the spare key in a safe place. A duplicate can be made from the sample of your key. If you lose both keys, you will need to replace the ignition, filler neck, and seat locks. All these locks are opened with the same key.

1. Vehicle Identification Number (VIN): \_\_\_\_\_

2. Vehicle Model Number \_\_\_\_\_

3. Engine Serial Number: \_\_\_\_\_

## - 2 - TECHNICAL SPECIFICATIONS

### Engine

Model 283MT

Engine type 2-cylinder, 4-stroke, in-line, 8 valves (DOHC), vertical

Engine capacity 649.3 cm<sup>3</sup>

Cylinder diameter x piston stroke 83 x 60mm

Engine power 52kW (70.7 hp)/8500 rpm

Maximum torque 62Nm/7000 rpm

Compression ratio 11.3:1

Maximum speed Not less than 180km/h

Seating capacity 2

Dry weight 193 kg

Maximum permissible load (driver+passenger+cargo) 180kg

### Fuel system

Fuel supply system EFI injection

Gasoline AI-98

Tank capacity 17l

### Ignition

Ignition ECU

Ignition timing angle 10°/1300 rpm

Dynamic ignition timing angle Up to 33°/6000 rpm

Spark plug CR8EI

## - 3 - TECHNICAL SPECIFICATIONS (continued)

# **BL Motorcycles Ltd**

*Professional Workshop Manual - English Translation*

## Lubrication system

Lubrication system Semi-dry sump, under pressure

Engine oil SAE15W40; API SG and above, meeting JASO MA2 specification

Oil volume 2.6l

## Cooling system

Antifreeze volume 1.6l

## Chassis

Minimum turning radius 2.7m

Length 2120 mm

Width 780mm

Height 1100 mm

Wheelbase 1415 mm

Clearance 150mm

Seat height 795mm

## Transmission

Transmission type 6-speed, manual with reverse engagement

Clutch Multi-disc, wet

Drive Chain 520XS

Crankshaft/gearbox gear ratio 2.095

Wheel drive gear ratio (chain drive) 3.067

- 4 - TECHNICAL SPECIFICATIONS (continued)

Overall gear ratio in 6th gear 5.474

## Gearbox gear ratios

1st gear 2.353

2nd gear 1.714

3rd gear 1.333

4th gear 1.111

5th gear 0.966

6th gear 0.852