

CFMoto - CFMoto Moto CF650NK. Service Manual. English. EU1108

FOREWORD

This manual introduces 650NK (CF650 model) maintenance information, disassembly procedure, check & adjustment methods, troubleshooting and technical specifications. There are illustrations, drawings to guide your operation.

CFMOTO has final explanations to this manual information. Without our prior written approval, the manual cannot be duplicated and disclosed to third party.

CFMOTO reserves rights to make improvements and modifications to the products without prior notice. Overhaul and maintenance should be done according to actual condition of vehicle.

This manual is compiled according to standard GB9969.1-1998 and GB/T19678-2005.

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Abbreviations Table

A ampere ib pound(s)

ABDC after bottom dead center m meter(s)

AC alternating current min minute(s)

ATDC after top dead center N newton(s)

BBDC before bottom dead center Pa pascal(s)

BDC bottom dead center PS horsepower

BTDC before top dead center psi pound(s) per square inch

oC degree(s) Celsius r revolution

DC direct current rpm revolution(s) per minute

F farad(s) TDC top dead center

oF degree(s) Fahrenheit TIR total indicator reading

ft foot, feet V volt(s)

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g gram(s) W watt(s)

h hour(s) ohm(s)

l liter(s)

This manual is designed primarily for use by well-trained mechanics in a properly equipped workshop. So the operator should have basic and necessary mechanical and electrical knowledge, as well as knowledge of proper use of tools. If you don't have enough experience, it is better to ask qualified operator to work. In order to perform the work efficiently and to avoid costly mistakes, it is important to read the manual thoroughly. For the warranty period, it is recommended to repair and maintain completely following this service manual. Any maintenance or repair procedure not performed in accordance with this manual may void warranty.

To get the longest life out of your vehicle.

Perform periodic maintenance by following this manual. Be alert for problems and non-scheduled maintenance.

Use genuine CFMOTO parts and proper tools. There are necessary information about genuine parts and special tools in our parts catalogue and special tools list. Follow the service manual procedures step by step. Do not take shortcuts.

Remember to keep complete records of maintenance and repair with dates and any new parts installed.

INTRODUCTION

How to Use This Manual

Whenever you see these WARING or CAUTION symbols, heed the instructions. Always follow safe operating and maintenance practices.

WARNING

This warning symbol identifies special instructions or procedures which, if not correctly followed, could result in personal injury or loss of life.

CAUTION

This caution symbol identifies special instructions or procedures which, if not strictly observed, could result in damage to or destruction of equipment.

This manual contains four more symbols (in addition to WARNING and CAUTION) which will help you distinguish different types of information.

NOTE

This note symbol indicates points of particular interest for more efficient and convenient operation.

Indicates a procedural step or work to be done.

Indicates a procedural sub-step or how to do the work. It also precedes the text of NOTE.

Indicates a conditional step or what action to take based on the results of text or inspection.

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General Information

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1-2 GENERAL INFORMATION

Safety Precautions

Exhaust contains toxic ingredients. Do not run the engine in enclosed or poorly-ventilated areas.

The liquor (dilute sulfuric acid) in Battery is strongly corrosive; it may burn the skin and blind the eyes when it contacts them. In case of contact, please wash it with a great deal of clear water immediately, and seek medical treatment in hospital. Besides, please also wash it by a great deal of clear water when it contacts the clothes, for avoiding skin burn. The Battery and Battery liquor must be stored strictly out of reach of children.

Uniform (pilot uniform etc), cap, safety boots suitable for the operation must be worn, and the safety articles such as dustproof goggles, dustproof respirator and gloves shall be worn for protection when necessary.

When the engine just stops, the temperature of engine, muffler is still high; please do not touch them with bare hands, for avoiding burn. Please wear uniform with long sleeves as well as gloves when maintaining.

The coolant is poisonous, please do not drink it, do not let it contact the skin, eyes neither clothes. In case it contacts the skin or clothes, please rinse it immediately. When it contacts the eyes, please wash it thoroughly with a great deal of clear water immediately, and seek medical treatment in hospital. In case the coolant is drunk by mistake, please try to throw it up, and seek medical treatment immediately after gargling. The coolant must be stored strictly out of reach of children.

No smoking or naked fire is allowed at the operation site, for the gasoline is combustible. Not only flames, but electric sparks shall be avoided. Besides, the vaporized gasoline is explosive, please operate it in the place with nice ventilation.

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Safety Precautions

The Battery may produce combustible and explosive hydrogen when it is being charged. So it may explode if there is flame or electric spark. So please charge it in the place with nice ventilation.

Do not touch the turning or movable pieces such as rear wheel, clutch, etc. Pay attention not to get pinched when servicing. The personnel shall make them be aware of each other from time to time when operating, for safety confirmation.

GENERAL INFORMATION 1-3

Before Servicing

Before starting to perform an inspection service or carry out disassembly and installation on a motorcycle, read the precautions given below. To facilitate actual operations, notes, illustrations, photographs, cautions and descriptions have been included in each chapter wherever necessary. This section explains the items that require particular attentions during removal and reassembly.

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Special Notes for the Following:

Battery Ground

Before completing any service on the motorcycle, disconnect the battery cables from the battery to prevent the engine from accidentally turning over. Disconnect the ground cable (-) first and then the positive (+). When finishing the service, first connect positive(+) cable to the positive (+) terminal of the battery and then the negative (-) cable to the negative (-) terminal.

Edges of Parts

When service parts with edges, wearing gloves to prevent injury.

Solvent

Use a high-flush point solvent when cleaning parts. High-flush point solvent should be used according to directions of solvent manufacturer.

Cleaning Vehicle Before Disassembly

Clean the vehicle completely before disassembly. Dirt or other foreign materials entering into sealed areas during vehicle disassembly can cause excessive wear and reduce vehicle performance.

Disassembly Assembly