Introduction

This service manual describes the service procedures for the CBR1000F.

This Model Specific Manual includes every service procedure that is of a specific nature to this particular model. Basic service procedures that are common to other Honda Motorcycle/Motor Scooter/ATVs are covered in the Common Service Manual. This Model Specific Service Manual should be used together with the Common Service Manual in order to provide complete service information on all aspects of this motorcycle.

Performing the first scheduled maintenance is very important. It compensates for the initial wear that occurs during the break-in period.

Sections 1 and 3 apply to the whole motorcycle. Section 2 illustrates procedures for removal/installation of components that may be required to perform service described in the following sections.

Sections 4 through 17 describe parts of the motor-cycle, grouped according to location.

Find the section you want on this page, then turn to the table of contents on the first page of the section.

Most sections describe the service procedure through system illustration. Refer to the next page for detail on how to use this manual.

If you are not familiar with this motorcycle, read Technical Feature in section 19.

If you don't know the source of the trouble, go to section 20 Troubleshooting.

All information, illustrations, directions and specifications included in this publication are based on the latest product information available at the time of approval for printing. Honda Motor Co.,LTD. reserves the right to make changes at any time without notice and without incurring any obligation whatever. No part of this publication may be reproduced without written permission. This manual is written for persons who have acquired basic knowledge of maintenance on Honda motorcycles, motor scooters or ATVs.

HONDA MOTOR CO., LTD. Service Publications Office

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Important Safety Notice

AWARNING

Indicates a strong possibility of severe personal injury or death if instructions are not followed.

CAUTION:

Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE:

Gives helpful information.

Detailed descriptions of standard workshop procedures, safety principles and service operations are not included. It is important to note that this manual contains some warnings and cautions against some specific service methods which could cause PERSONAL INJURY to service personnel or could damage a vehicle or render it unsafe. Please understand that those warnings could not cover all conceivable ways in which service, whether or not recommended by Honda, might be done or of the possibly hazardous consequences of each conceivable way, nor could Honda investigate all such ways. Anyone using service procedures or tools, whether or not recommended by Honda,must satisfy himself thoroughly that neither personal safety nor vehicle safety will be jeopardized by the service method or tools selected.

Type Codes

• Throughout this manual, the following abbreviations are used to identify individual model.

Code	Area Type		
ED	European direct sales		
E	U.K.		
F	France		
G (GI/GII)	Germany (Full power/Limited power)		
U	Australia		
ND	North Europe		
sw	Switzerland		
ІТ	Italy		
н	Netherland		
AR	Austria		
SP	Spain		

How To Use This Manual

Finding The Information You Need

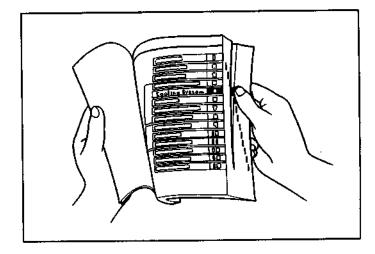
 This manual is devided into sections which cover each of the major components of the motorcycle.

To quickly find the section you are interested in, the first page of each sections is marked with a black tab that lines up with one of the thumb index tabs before this page.

The first page of each section lists the table of contents within the section.

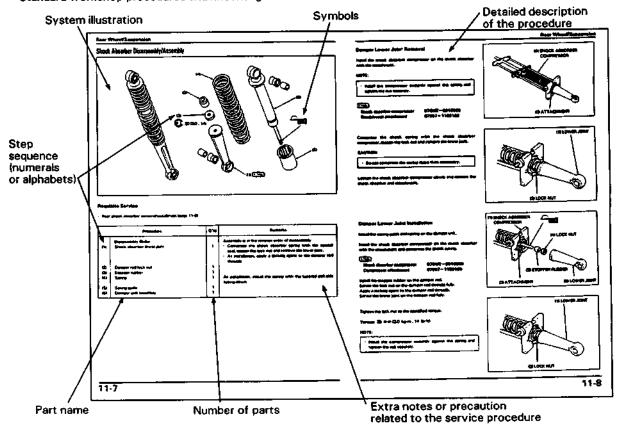
Read the service information and troubleshooting related to the section before you begin working.

 An index of the entire book is provided in the last chapter to directly locate the information you need.



Note On The Explanation Method Of This Manual

- The removal and installation of parts are for the most part illustrated by large and clear illustrations that should provide the reader with visual aid in understanding the major point for servicing.
- The system illustrations are augmented by call outs whose numbers or letters indicate the order in which the parts should be removed or installed.
- The sequence of steps represented numerically are differentiated from the ones represented alphabetically to notify the reader that they must perform these steps seperately.
 - For example, if the steps prior and up to camshaft removal are performed with the engine installed, but the subsequent steps like cylinder head removal require engine removal, the callouts are grouped in numerical and alphabetical orders.
- The illustrations may contain symbols to indicate necessary service procedures and precautions that need to be taken.
 Refer to the next page for the meaning of each symbol.
- Also in the illustration is a chart that lists information such as the order in which the parts is removed/installed, the name of the
 part, and some extra notes that may needed.
- Step by step instructions are provided to supplement the illustrations when datailed explanation of the procedure is necessary
 or illustrations alone would not suffice.
- Service procedures required before or after the procedure described on that particular page, or inspection/adjustment procedures required following the installation of parts, are described under the title Requisite Service.
- Standard workshop procedures and knowledge covered in the Common Service Manual are abbreviated in this manual.



Symbols

The symbols used throughout this manual show specific service procedures. If supplementary information is required pertaining to these symbols, it would be explained specifically in the text without the use of the symbols.

*	Replace the part (s) with new one (s) before assembly.
S. TOOL	Use special tool.
O P TOOL	Use optional tool. These tools are obtained as you order parts.
10 (1.0, 7)	Torque specification. 10 N·m (1.0 kg-m, 7 ft-lb)
7	Use recommended engine oil, unless otherwise specified.
78	Use molybdenum oil solution (mixture of the engine oil and molybdenum grease with the ratio 1 : 1).
GREASE	Use multi-purpose grease (Lithium Based multi-purpose grease NLGI #2 or equivalent).
	Use molybdenum disulfide grease (containing more than 3% molybdenum disulfide, NLGI #2 or equivalent). Example: Molykote®BR-2 plus manufactured by Dow Corning, U.S.A. Multi-purpose M-2 manufactured by Mitsubishi Oil Japan
-KWBH	Use molybdenum disulfide paste (containing more than 40% molybdenum disulfide, NLGI #2 or equivalent). Example: Molykote G-n Paste manufactured by Dow Corning, U.S.A. Honda Moly 60 (U.S.A. only) Rocol ASP manufactured by Rocol Limited, U.K. Rocol Paste manufactured by Sumico Lubricant, Japan
-FISH	Use silicone grease.
TOCK	Apply a locking agent. Use the agent of the middle strength, unless otherwise specified.
SEALS	Apply sealant.
1915 3938E	Use brake fluid DOT 4. Use the recommended brake fluid, unless otherwise specified.
FORK	Use Fork or Suspension Fluid.

1. General Information

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General Safety

Carbon Monoxide

If the engine must be running to do some work, make sure the area is well ventilated. Never run the engine in an enclosed area.

A WARNING

 The exhaust contains poisonous carbon monoxide gas that can cause loss of consciousness and may lead to death.

Run the engine in an open area or with an exhaust evacuation system in an enclosed area.

Gasoline

Work in a well ventilated area. Keep cigarettes, flames or sparks away from the work area or where gasoline is stored.

AWARNING

 Gasoline is extremely flammable and is explosive under certain conditions. KEEP OUT OF REACH OF CHILDREN.

Hot Components

AWARNING

 Engine and exhaust system parts become very hot and remain hot for some time after the engine is run.
 Wear insulated gloves or wait until the engine and exhaust system have cooled before handling these parts.

Used Engine/Transmission Oil

A WARNING

 Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil. KEEP OUT OF REACH OF CHILDREN.

Brake Dust

Never use an air hose or dry brush to clean brake assemblies.

A WARNING

 Inhaled asbestos fibers have been found to cause respiratory disease and cancer.

Brake Fluid

CAUTION

 Spilling fluid on pained, plastic or rubber parts will damage them. Place a clean shop towel over these parts whenever the system is serviced. KEEP OUT OF REACH OF CHILDREN.

Coolant

Under some conditions, the ethylene glycol in engine coolant is combustible and its flame is not visible. If the ethylene glycol does ignite, you will not see any flame, but you can be burned.

A WARNING

- Avoid spilling engine coolant on the exhaust system or engine parts. They may be hot enough to cause the coolant to ignite and burn without a visible flame.
- Coolant (ethylene glycol) can cause some skin irritation and is poisonous if swallowed, KEEP OUT OF REACH OF CHILDREN.
- Keep out of reach of pets. Some pets are attracted to the smell and taste of coolant and can die if they drink it.
- Do not remove the radiator cap when the engine is hot. The coolant is under pressure and could scald you.

If it contacts your skin, wash the affected areas immediately with soap and water. If it contacts your eyes, flush them thoroughly with fresh water and get immediate medical attention. If it is swallowed, the victim must be forced to vomit then rinse mouth and throat with fresh water before obtaining medical attention. Because of these dangers, always store coolant in a safe place, away from the reach of children. Recycle used coolant in an ecologically correct manner.

Nitrogen Pressure

For shock absorber with a gas-filled reservoir.

A WARNING

- Use only nitrogen to pressurize the shock absorber.
 The use of an unstable gas can cause a fire or explosion resulting in serious injury.
- The shock absorber contains nitrogen under high pressure. Allowing fire or heat near the shock absorber could lead to and explosion that could result in serious injury.
- Failure to release the pressure from a shock absorber before disposing of it may lead to a possible explosion and serious injury if it is heated or pierced.

To prevent the possibility of an explosion, release the nitrogen by pressing the valve core. Then remove the valve stem from the shock absorber reservoir.

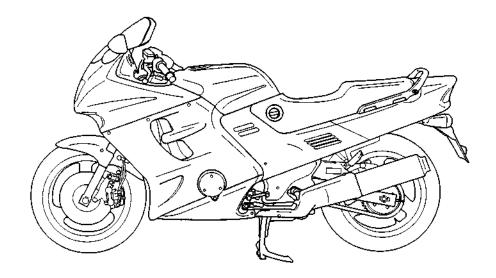
Before disposal of the shock absorber, release the nitrogen by pressing the valve core. Then remove the valve stem from the shock absorber.

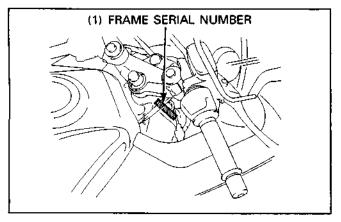
Battery Hydrogen Gas & Electrolyte

A WARKING

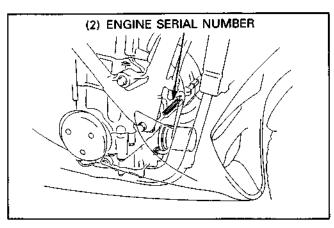
- The battery gives off explosive gases; keep sparks, flames and cigarettes away. Provide adequate ventilation when charging.
- The battery contains sulfuric acid (electrolyte).
 Contact with skin or eyes may cause severe burns.
 Wear protective clothing and a face shield.
 - If electrolyte gets on your skin, flush with water.
 - If electrolyte gets in your eyes, flush with water for at least 15 minutes and call a physician.
- · Electrolyte is poisonous.
 - If swallowed, drink large quantities of water or milk and follow with milk of magnesia or vegetable oil and call a physician. KEEP OUT OF REACH OF CHILDREN.

Model Identification

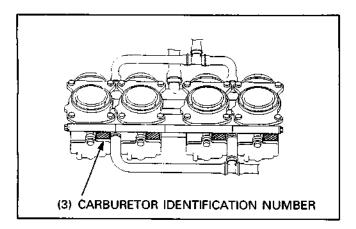




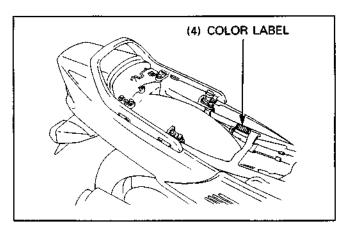
(1) The frame serial number is stamped on the right side of the steering head.



(2) The engine serial number is stamped on the front of the crankcase.



(3) The carburetor identification number is stamped on the rear side of each carburetor.



(4) The color label is attached as shown. When ordering color-coded parts, always specify the designated color code.

Specifications

– General —	Item	Specifications
Dimensions	Overall length (G, SW, IT, ND type) (ED, E, F, AR, SP, U type) Overall width Overall height Wheel base Seat height Footpeg height Ground clearance Dry weight Curb weight Maximum weight capacity	2,235 mm (88.0 in) 2,270 mm (89.4 in) 740 mm (29.1 in) 1,215 mm (47.8 in) 1,500 mm (59.1 in) 780 mm (30.7 in) 355 mm (14.0 in) 140 mm (5.5 in) 235 kg (518 lbs) 271 kg (597 lbs) 185 kg (408 lbs)
Frame	Frame type Front suspension Front wheel travel Rear suspension Rear wheel travel Rear damper Front tire size Rear tire size Tire brand (Bridgestone) FR/RR Tire brand (Dunlop) FR/RR Front brake Rear brake Caster angle Trail length Fuel tank capacity Fuel tank reserve capacity	Diamond Telescopic fork 130 mm (5.1 in) Swingarm 115 mm (4.5 in) Nitrogen gas filled damper 120/70 VR17-V270 170/60 VR17-V270 CYROX19E/CYROX16E (Except AR type) K510A/K510B Hydraulic double disc brake Hydraulic single disc brake 27° 110 mm (4.3 in) 22 liter (5.81 US gal, 4.84 lmp gal) 3.5 liter (0.91 US gal, 0.77 lmp gal)
Engine	Bore and stroke Displacement Compression ratio Valve train Intake valve opens at 1 mm lift Intake valve closes at 1 mm lift Exhaust valve opens at 1 mm lift Exhaust valve closes at 1mm lift Lubrication system Oil pump type Cooling system Air filtration Crankshaft type Engine weight Firing order Cylinder arrangement Cylinder number Front	77.0 x 53.6 mm (3.03 x 2.11 in) 998 cm (60.9 cu-in) 10.5 : 1 Chain drive and DOHC 15' BTDC 38' ABDC 40' BBDC 10' ATDC Forced pressure and wet sump Trochoid Liquid cooled Paper filter Unit type, 6 main journals 94.7 kg (209 lbs) 1 - 2 - 4 - 3 4 cylinder, inline