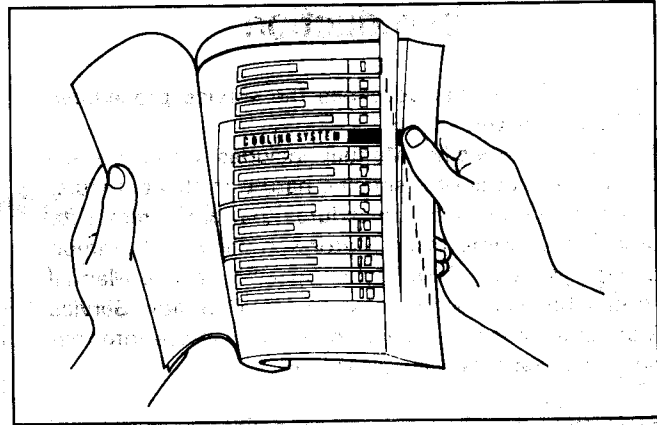


# How to Use This Manual

## Finding The Information You Need

- This manual is divided 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 section 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.



## Understanding The Instructions

- 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 callouts 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 separately.
- 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 mark.
- Also in the illustration is a chart that lists information such as the order in which the part is removed/installed, the name of the part, and some extra notes that may be needed.
- Step by step instructions are provided to supplement the illustrations when detailed 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**

**System illustration**

**Detailed description of the procedure**

**CYLINDER HEAD/CYLINDER/PISTON**

**CYLINDER HEAD REMOVAL/INSTALLATION**

**REQUISITE SERVICE**

Engine removal/installation (page 7-2)

Camshaft removal/installation (page 8-2)

PROCEDURE	REMARKS
REMOVAL ORDER	
(1) Cylinder head special nut	1
(2) Cylinder head mounting bolt	2
(3) Cylinder head assembly	1
(4) Gasket	1
(5) Dowel pin	2
(6) Camshaft idle gear case bolt	5
(7) Camshaft idle gear case dowel pin	2
(8) Sealing washer	1
(9) Camshaft idle gear case	1
(10) Carburetor insulator	4

Installation is in the reverse order of removal (installation page 8-5).

Install with the UP mark facing up and rearward.

Installation page 8-5.

At installation align the insulator groove with the engine lug with the UP mark facing upwards (carburetor side).

**CYLINDER HEAD/CYLINDER/PISTON**

**CAMSHAFT IDLE GEAR CASE INSTALLATION**

Install the camshaft idle gear case dowel pins properly.

**NOTE**

Without the dowel pins installed properly, the camshaft idle gear may not be able to be installed onto the crank shaft timing gear.

Install the camshaft idle gear case onto the cylinder. While moving the idle gear lightly with the gear case, the gear case should be lifted up slightly from the cylinder.

Install a new sealing washer and mounting bolts. Tighten bolts in a **zigzag** as shown.

**CYLINDER HEAD NUT/BOLT INSTALLATION**

Install the cylinder head special nuts as shown. Do not tighten them yet.

Install the cylinder head mounting bolts. Tighten the special nuts and mounting bolts in a gradual crisscross pattern.

**TORQUE**

Special nut: 30 N·m (3.0 kg·m, 22 ft·lb)

Mounting bolt: 12 N·m (1.2 kg·m, 9 ft·lb)

**Part name**

**Number of parts**

**Extra notes or precautions related to the service procedure**

8-4

8-5