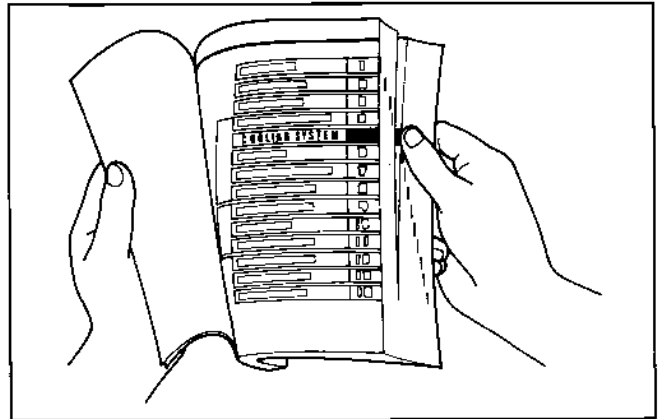


How to Use This Manual

Finding 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.



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 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.
- 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.

Symbol

System illustration

Detailed description of the procedure

CYLINDER HEAD/CYLINDER/PISTON

CYLINDER HEAD REMOVAL/INSTALLATION

PROCEDURE	QTY	REMARKS
REMOVAL ORDER		
(1) Cylinder head adjusting nut	12	
(2) Cylinder head mounting bar	2	
(3) Cylinder head assembly	1	
(4) Cover	1	align with the UP mark facing up and rearward
(5) Oil seal	2	
(6) Camshaft oil gear case bolt	2	
(7) Camshaft oil gear case drive pin	2	Installation page 8-5
(8) Sealing caplet	1	
(9) Camshaft oil gear case	1	
(10) Camshaft nut/bolt	4	At installation, align the nut/bolt groove with the angled lip with the UP mark facing upward/rearward side

REQUISITE SERVICE

Engine removal/inspection page 7-2

Camshaft removal/inspection page 8-21

CYLINDER HEAD/CYLINDER/PISTON

CAMESHAFT OIL GEAR CASE INSTALLATION

Insert the camshaft oil gear case drive pin to gear.

NOTE:

- Without the cover installed properly, the camshaft oil gear may not be able to be inserted onto the caplet shell timing gear.

Insert the camshaft oil gear case into the cylinder. While pushing the oil gear lightly, turn the gear case into the gear case should be fitted up slightly from the cylinder.

Insert a new sealing washer into mounting ears. Tighten bolts in a gradual, clockwise

CYLINDER HEAD NUT/BOLT INSTALLATION

Insert the cylinder head nut/bolt into the hole. Do not tighten them yet.

Insert the cylinder head mounting bar. Tighten the special nuts and mounting bolts in a gradual clockwise pattern.

TORQUE

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

Mounting bar 12 N·m (1.2 kg-m, 9 ft-lb)

Step sequence (numerals or alphabets)

Part name

Number of parts

Extra notes or precaution related to the service procedure

Introduction

This service manual describes the service procedures for the ST1100/ST1100A.

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 Motorcycles/Motor Scooters/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.

This manual covers 3 types of ST1100 models:

- Standard (no ABS)
- ABS/TCS ('92-'95)
- LBS-ABS/TCS (After '95)

Be sure to refer to the procedure that pertains to the appropriate version of the ST1100.

Follow the Maintenance Schedule (Section 3) recommendations to ensure that the vehicle is in peak operating condition and the emission levels are within the standards set by the U.S. Environmental Protection Agency and the California Air Resources Board.

Performing the first scheduled maintenance is very important. It helps compensate 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 22 describe parts of the motorcycle, grouped according to locations.

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 details on how to use this manual.

If you are not familiar with this motorcycle, read Technical Features in section 23.

If you don't know the source of the trouble, go to section 24 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.

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SERVICE PUBLICATION OFFICE















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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.

	<p>Replace the part(s) with new one(s) before assembly.</p>
	<p>Use special tool</p>
	<p>Use optional tool. Use the same procedure you use to order parts.</p>
 <p>10 (1.0, 7.2)</p>	<p>Torque specification. 10 N·m (1.0 kg-m, 7.2 ft-lb)</p>
	<p>Use recommended engine oil, unless otherwise specified.</p>
	<p>Use molybdenum oil solution (mixture of the engine oil and molybdenum grease in a ratio of 1 : 1).</p>
	<p>Use multi-purpose grease (Lithium based multi-purpose grease NLGI #2 or equivalent)</p>
	<p>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</p>
	<p>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</p>
	<p>Use silicone grease</p>
	<p>Apply a locking agent. Use a middle strength locking agent unless otherwise specified.</p>
	<p>Apply sealant</p>
	<p>Use brake fluid, DOT 3 or DOT 4. Use the recommended brake fluid, unless otherwise specified.</p>
	<p>Use Fork or Suspension Fluid.</p>