HOW TO USE THIS ENGINE REPAIR MANUAL

010VQ–01

GENERAL INFORMATION

1. GENERAL DESCRIPTION

(a) This manual is written in accordance with SAE J2008.

(b) Repair operations can be separated in 3 main processes:
1. Diagnosis
2. Removing and Installing, Replacing, Disassembling, Installing and Checking, Adjusting
3. Final Inspection

(c) This manual explains ”Removing and Installing, Replacing, Disassembling, Installing and Checking, Adjusting”. ”Diagnosis” and ”Final Inspection” is omitted.

(d) The following essential operations are not written in this manual. However, these operations must be performed in actual situation.
(1) Operation with a jack or lift
(2) Cleaning of a removed part when necessary
(3) Visual check

2. INDEX

(a) An alphabetical INDEX section is provided at the end of the book as a reference to help you find the item to be repaired.

3. PREPARATION

(a) Use of Special Service Tools (SST) and Special Service Materials (SSM) may be required, depending on the repair situation. Be sure to use SST and SSM when they are required and follow the working procedure properly. A list of SST and SSM is in the Preparation section of this manual.

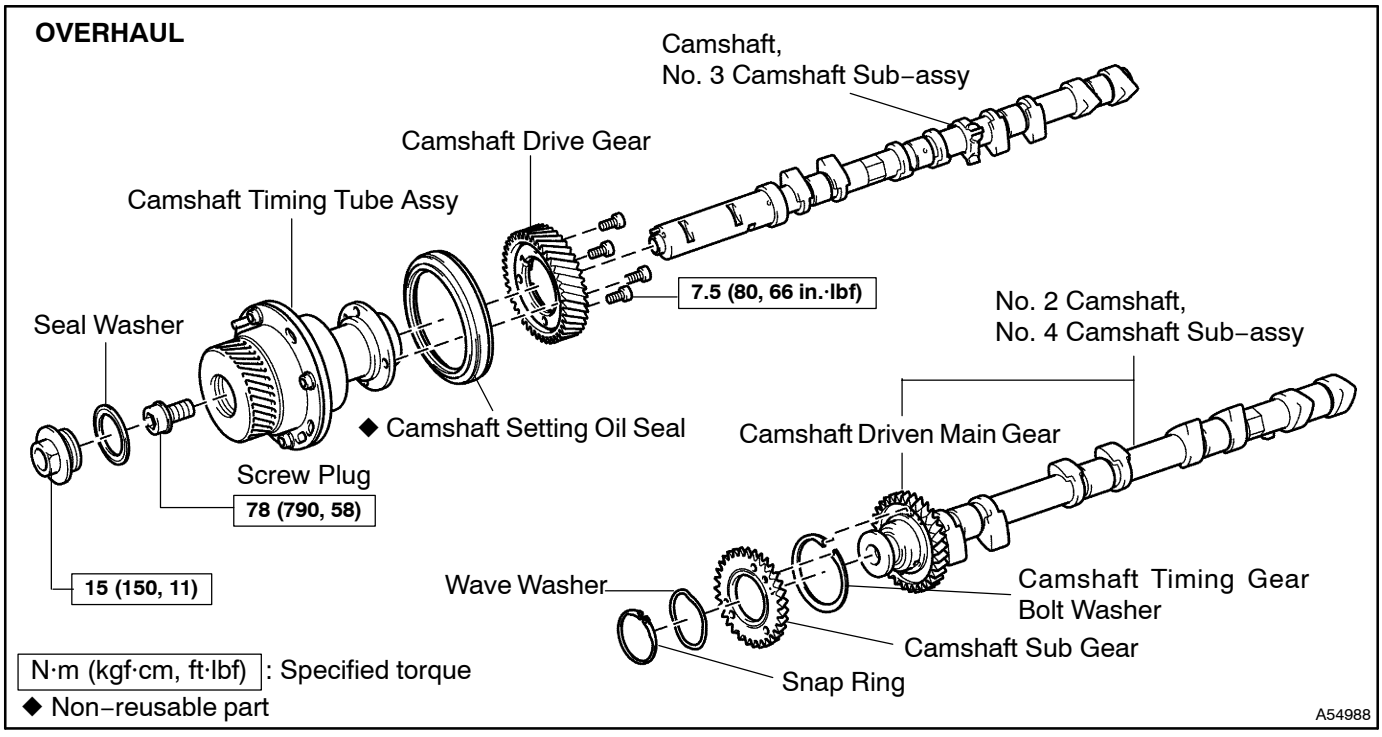
4. REPAIR PROCEDURES

(a) A component illustration is placed under the title when necessary.

(b) Illustrations of the parts catalog are placed as the ”disassembled parts drawing” so that it enables you to understand the fitting condition of the components.

(c) Non–reusable parts, grease application areas, precoated parts and torque specifications are noted in the components illustrations.

Example:



(d) Torque specifications,grease application areas, and non–reusable parts are emphasized in the procedure.

NOTICE:

There are cases where such information can only be explained by using an illustration. In these cases, all the information such as torque, oil, etc. are described in the illustration.

(e) The installation procedures are the removal procedures in reverse order. However, only installation procedures requiring additional information are included.

(f) Only items with key points are described in the text. What to do and other details are placed in the illustrations next to the text. Both the text and illustrations are accompanied by standard values and notices.

(g) Illustrations of similar vehicle models are sometimes used. In those cases, specific details may be different from the actual vehicle.

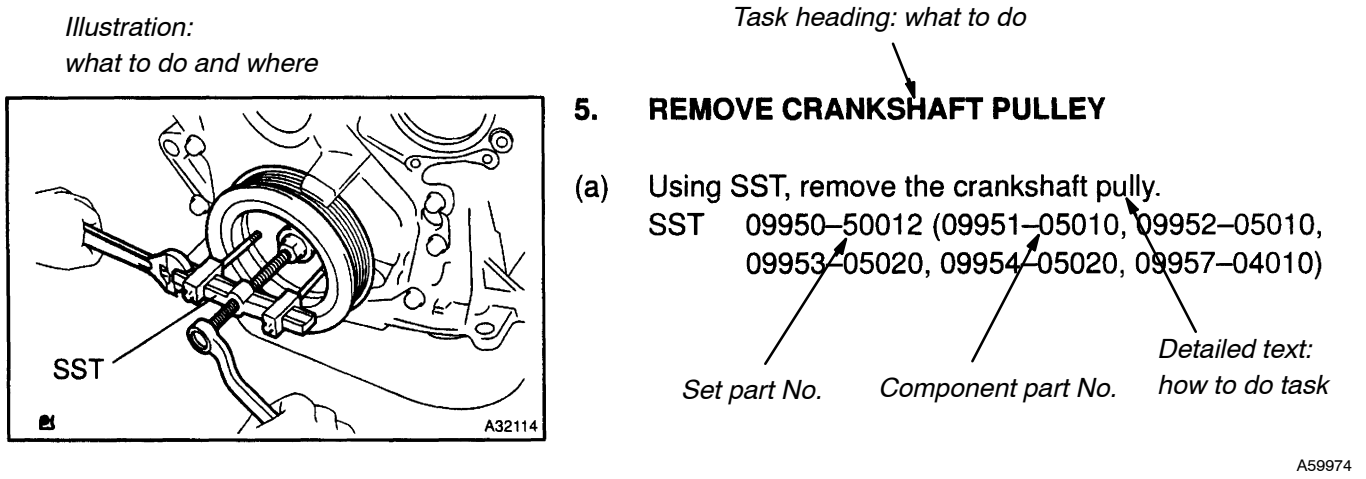
(h) Procedures are presented in a step–by–step format:

(1) The illustration shows what to do and where to do it.

(2) The task heading tells what to do.

(3) The explained text tells how to perform the task. It has also information such as specifications and warnings.

Example:



HINT:

This format provides an experienced technician with a FAST TRACK to the necessary information. The task headings are easy to read and the text below the task heading provides detailed information. Important specifications and warnings always written in bold type.

5. SERVICE SPECIFICATIONS

(a) SPECIFICATIONS are presented in bold–faced text throughout the manual. The specifications are also found in the Service Specifications section for quick reference.

6. TERMS DEFINITION

CAUTION	Possibility of injury to you or other people.
NOTICE	Possibility of damage to the components being repaired.
HINT	Provide additional information to help you perform repairs.

7. SI UNIT

(a) The units used in this manual comply with the SI UNIT (International System of Units) standard, Units from the metric system and the English system are also provided.

Example:

Torque: 30 N·m (310 kgf·cm, 22 ft·lbf)