

# FOREWORD

This manual contains an introductory description on HYOSUNG 『 **WOW50** 』 and procedures for its inspection /service and overhaul of its main components.

Other information considered as generally known is not included.

Read GENERAL INFORMATION section to familiarize yourself with outline of the vehicle and MAINTENANCE and other sections to use as a guide for proper inspection and service.

This manual will help you know the vehicle better so that you can assure your customers of your optimum and quick service.

- ❖ This manual has been prepared on the basis of the latest specification at the time of publication. If modification has been made since then, difference may exist between the content of this manual and the actual vehicle.
- ❖ Illustrations in this manual are used to show the basic principles of operation and work procedures. They may not represent the actual vehicle exactly in detail.
- ❖ This manual is intended for those who have enough knowledge and skills for servicing HYOSUNG vehicles. Without such knowledge and skills, you should not attempt servicing by relying on this manual only. Instead, please contact your nearby authorized HYOSUNG motorcycle dealer.

# GROUP INDEX

**GENERAL INFORMATION**

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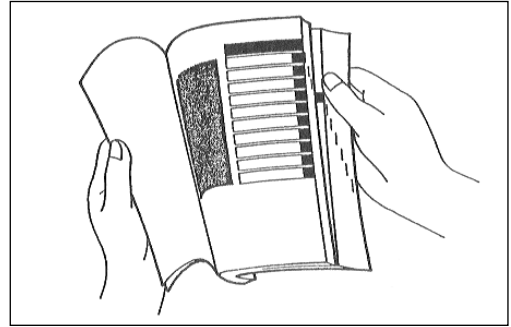
**HYOSUNG MOTORS & MACHINERY INC.**

*Overseas Technical Department*

# HOW TO USE THIS MANUAL














## TO LOCATE WHAT YOU ARE LOOKING FOR:

1. The text of this manual is divided into sections.
2. As the title of these sections are listed on the previous page as GROUP INDEX, select the section where you are looking for.
3. Holding the manual as shown at the right will allow you to find the first page of the section easily.
4. On the first page of each section, its contents are listed. Find the item and page you need.



## SYMBOL

Listed in the table below are the symbols indicating instructions and other information necessary for servicing and meaning associated with them respectively.

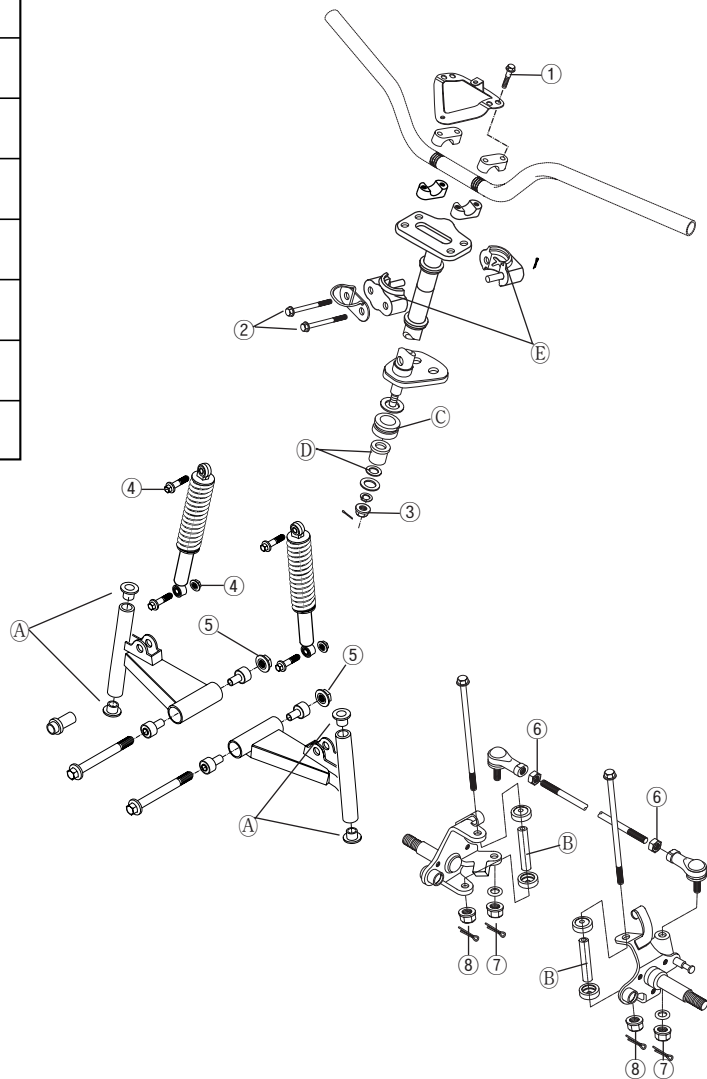
SYMBOL	DEFINITION	SYMBOL	DEFINITION
	Torque control required. Data beside it indicates specified torque.		Apply THREAD LOCK "1324".
	Apply oil. Use engine oil unless otherwise specified.		Apply or use brake fluid.
	Apply SUPER GREASE "A".		Measure in voltage range.
	Apply SUPER GREASE "C".		Measure in resistance range.
	Apply SILICONE GREASE.		Measure in current range.
	Apply MOLY PASTE.		Use special tool.
	Apply BOND "1215".		

## COMPONENT PARTS AND WORK TO BE DONE

Under the name of each system or unit, its exploded view is provided with work instruction and other service information such as the tightening torque, lubricating points and looking agent points.

Example : STEERING AND FRONT SUSPENSION

TIGHTENING TORQUE		
ITEM	N · m	kg · m
①	18 ~ 28	1.8 ~ 2.8
②	18.4 ~ 28.6	1.84 ~ 2.86
③	22.4 ~ 35.7	2.24 ~ 3.57
④	40 ~ 50	4.0 ~ 5.0
⑤	80 ~ 100	8.0 ~ 10.0
⑥	22 ~ 35	2.2 ~ 3.5
⑦	22 ~ 35	2.2 ~ 3.5
⑧	40 ~ 60	4.0 ~ 6.0



- Ⓐ : ASSEMBLING APPLY GREASE
- Ⓑ : ASSEMBLING APPLY GREASE
- Ⓒ : APPLY GREASE TO LIPS
- Ⓓ : APPLY GREASE
- Ⓔ : ASSEMBLING APPLY GREASE



# **GENERAL INFORMATION**

## **CONTENTS**

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## WARNING / CAUTION / NOTE

Please read this manual and follow its instructions carefully. To emphasize special information, the symbol and the words WARNING, CAUTION and NOTE have special meanings. Pay special attention to the messages highlighted by these signal words.

### **WARNING**

Indicates a potential hazard that could result in death or injury.

### **CAUTION**

Indicates a potential hazard that could result in vehicle damage.

### **NOTE :**

*Indicates special information to make maintenance easier or instructions cleaner.*

Please note, however, that the **WARNING** and **CAUTION** contained in this manual cannot possibly cover all potential hazards relating to the servicing, or lack of servicing, of the motorcycle. In addition to the **WARNING** and **CAUTION** stated, you must use good judgement and basic mechanical safety principles. If you are unsure about how to perform a particular service operation, ask a more experienced mechanic for advice.

## GENERAL PRECAUTIONS

### **WARNING**

- ❖ Proper service and repair procedures are important for the safety of the service machanic and the safety and reliability of the vehicle.
- ❖ When 2 or more persons work together, pay attention to the safety of each other.
- ❖ When it is necessary to run the engine indoors, make sure that exhaust gas is forced outdoors.
- ❖ When working with toxic or flammable materials, make sure that the area you work in is well-ventilated and that you follow all off the material manufacturer' s instructions.
- ❖ Never use gasoline as a cleaning solvent.
- ❖ To avoid getting burned, do not touch the engine, engine oil or exhaust system during or for a while after engine operation.
- ❖ After servicing fuel, oil, exhaust or brake systems, check all lines and fittings related to the system for leaks.

**⚠ CAUTION**

- ❖ If parts replacement is necessary, replace the parts with HYOSUNG Genuine Parts or their equivalent.
- ❖ When removing parts that are to be reused, keep them arranged in an orderly manner so that they may be reinstalled in the proper order and orientation.
- ❖ Be sure to use special tools when instructed.
- ❖ Make sure that all parts used in reassembly are clean, and also lubricated when specified.
- ❖ When use of a certain type of lubricant, bond, or sealant is specified, be sure to use the specified type.
- ❖ When removing the battery, disconnect the negative cable first and then positive cable. When reconnecting the battery, connect the positive cable first and then negative cable, and replace the terminal cover on the positive terminal.
- ❖ When performing service to electrical parts, if the service procedures do not require use of battery power, disconnect the negative cable at the battery.
- ❖ Tighten cylinder head and case bolts and nuts, beginning with larger diameter and ending with smaller diameter, from inside to outside diagonally, to the specified tightening torque.
- ❖ Whenever you remove oil seals, gaskets, packing, O-rings, locking washers, cotter pins, circlips, and certain other parts as specified, be sure to replace them with new ones. Also, before installing these new parts, be sure to remove any left over material from the mating surfaces.
- ❖ Never reuse a circlip. When installing a new circlip, take care not to expand the end gap larger than required to slip the circlip over the shaft. After installing a circlip, always ensure that it is completely seated in its groove and securely fitted.
- ❖ Do not use self-locking nuts a few times over.
- ❖ Use a torque wrench to tighten fasteners to the torque values when specified. Wipe off grease or oil if a thread is smeared with them.
- ❖ After reassembly, check parts for tightness and operation.

- ❖ To protect environment, do not unlawfully dispose of used motor oil and other fluids: batteries, and tires.
- ❖ To protect Earth's natural resources, properly dispose of used vehicles and parts.

HYOSUNG *WOW*<sub>50</sub>



**NOTE :**

*Difference between photographs and actual vehicles depends on the markets.*

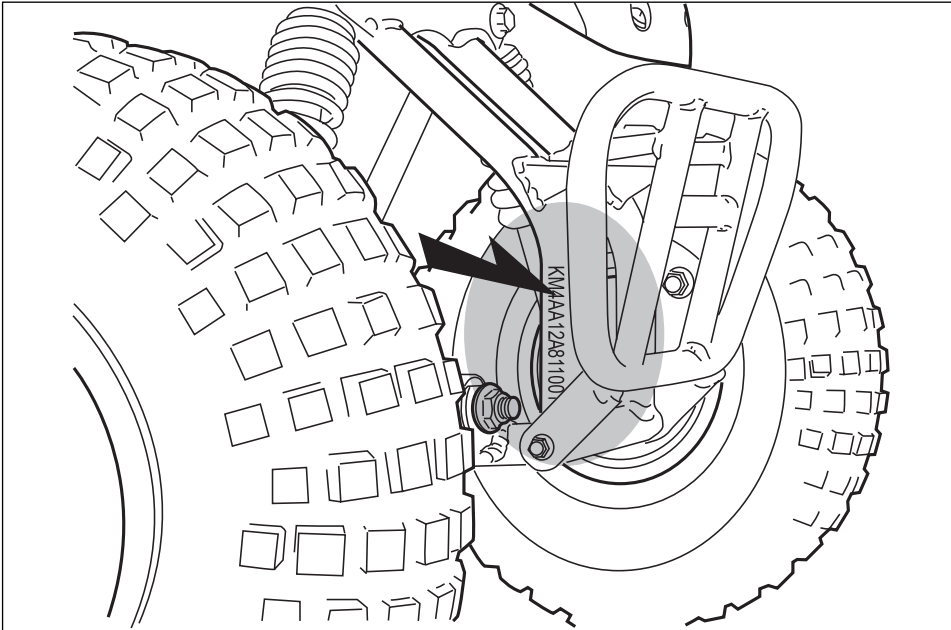


## SERIAL NUMBER LOCATION

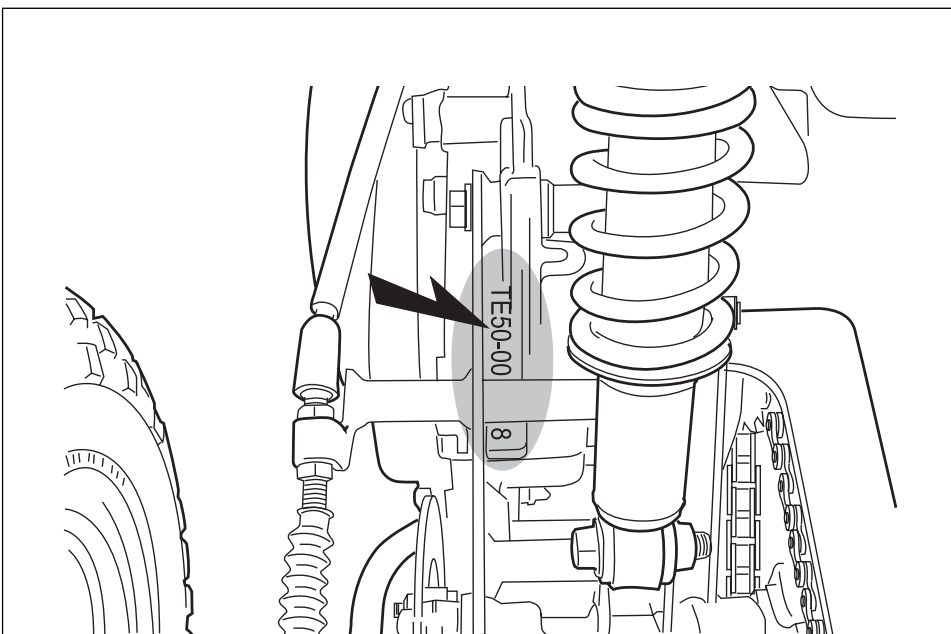
The frame serial number or V.I.N. (Vehicle Identification Number) is stamped on the front frame member. The engine serial number is stamped on the left side of crankcase assembly.

These numbers are required especially for registering the machine and ordering spare parts.

### ◉ FRAME SERIAL NUMBER



### ◉ ENGINE SERIAL NUMBER



## FUEL AND OIL RECOMMENDATION

### ⦿ FUEL

Gasoline used should be graded 85~95 octane or higher. An unleaded type gasoline is recommended. If engine pinging is experienced, substitute another brand as there are differences between brands.

### ⦿ ENGINE OIL

Use **HYOSUNG HYPOL OIL HS**.

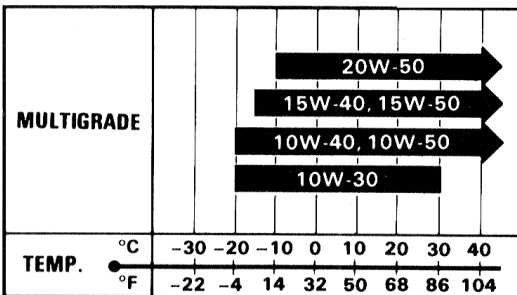
If they are not available, use a good quality TWO-STROKE engine oil.

### ⦿ TRANSMISSION OIL

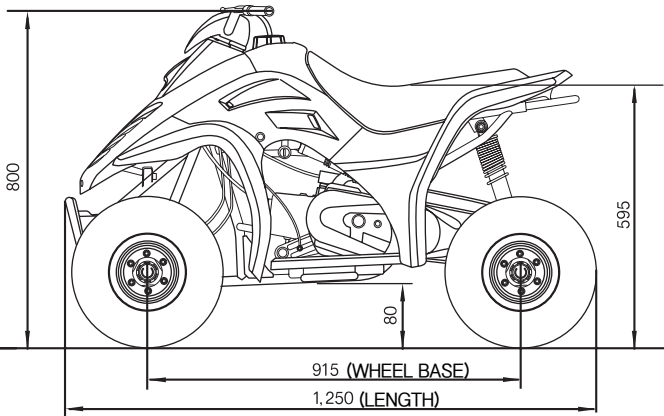
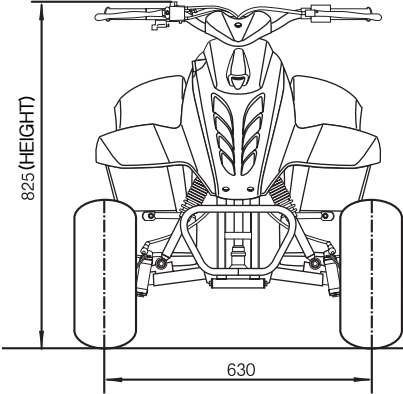
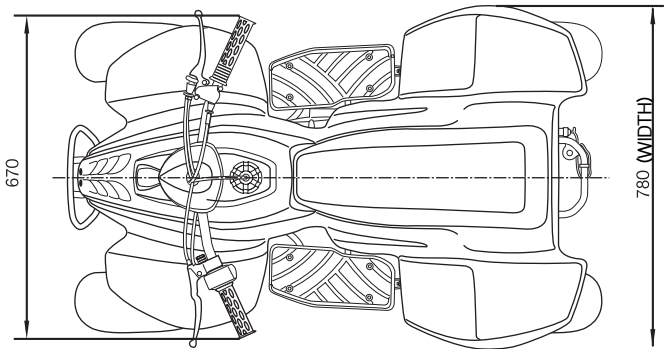
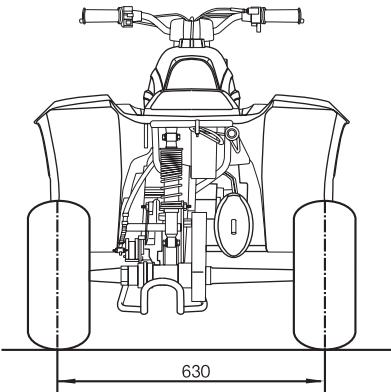
Use a good quality SAE 10W/40 multigrade motor oil.

Classification system	Grade
API	SF or SG
SAE	10W/40

❖ *If an SAE 10W/40 motor oil is not available, select an alternative according to the following chart.*



EXTERIOR ILLUSTRATION



## SPECIFICATIONS

### DIMENSIONS AND DRY MASS

Overall length .....	1,250 mm (49.2 in)
Overall width .....	780 mm (30.7 in)
Overall height .....	825 mm (32.5 in)
Wheelbase .....	915 mm (36.0 in)
Ground clearance .....	80 mm (3.2 in)
Front track .....	630 mm (24.8 in)
Rear track .....	630 mm (24.8 in)
Mass .....	85 kg (187.5 lbs)

### ENGINE

Type .....	Two-stroke, forced air cooled
Intake system .....	Reed valve
Number of cylinder .....	1
Bore x Stroke .....	41.0 mm (1.61 in) × 37.4 mm (1.47 in)
Piston displacement .....	49 cm <sup>3</sup> (3.9 cu.in)
Corrected compression ratio .....	7.4 : 1
Carburetor .....	Piston valve
Air cleaner .....	Polyurethane foam element

### TRANSMISSION

Clutch .....	Dry shoe, automatic, centrifugal type
Reduction ratio .....	2.818 ~ 0.870
Drive system .....	SLC 428H 50 links

### CHASSIS

Steering angle .....	37.5° (right & left)
Trail .....	8.5 mm (0.335 in)
Turning radius .....	2,450 mm (96.46 in)
Toe-in .....	6 mm (0.236 in)
Camber angle .....	1°
Caster angle .....	3°
Front brake .....	Drum
Rear brake .....	Disk
Front tire size .....	145/70-6 × 2
Rear tire size .....	145/70-6 × 2

### ELECTRICAL

Ignition type .....	HYOSUNG CDI
Ignition timing .....	23° B.T.D.C at 4,000 rpm
Spark plug .....	BPR6HS

### CAPACITIES

Fuel tank .....	4 ℓ
Engine oil tank .....	1 ℓ
Transmission oil .....	80 ml (Replace)
	90 ml (Overhaul)

#### NOTE :

*These specifications are subject to change without notice.*