



XL 125 V₁

IMPORTANT SAFETY NOTICE -

AWARNING

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

CAUTION:

Indicates a possibility of 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 methods or tools selected.

TYPE CODE

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

CODE	AREA TYPE		AREA TYPE	
ED	EUROPEAN DIRECT SALES			
E	U.K.			
F	FRANCE			
SW	SWITZERLAND			
liG	GERMANY (TYPE II)			

HOW TO USE THIS MANUAL

This service manual describes the service procedures for the XL125V.

Follow the Maintenance Schedule (Section 3) recommendations to ensure that the vehicle is in peak operating condition.

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 20 describe parts of the motorcycle, 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 start with an assembly or system illustration, service information and troubleshooting for the section.

The subsequent pages give detailed procedure.

If you don't know the source of the trouble, go to section 21 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 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.

	Replace the part(s) with new one(s) before assembly.	
7	Use recommended engine oil, unless otherwise specified.	
The ou	Use molybdenum oil solution (mixture of the engine oil and molybdenum grease in a ratio of 1:1).	
	Use multi-purpose grease (Lithium based multi-purpose grease NLGI #2 or equivalent).	
	Use molybdenum disulfide grease (containing more than 3% molybdenum disulfide, NLG #2 or equivalent). Example: Molykote® BR-2 plus manufactured by Dow corning, U.S.A. Multi-purpose M-2 manufactured by Mitsubishi Oil, Japan	
-400PM	Use molybdenum disulfide paste (containing more than 40% molybdenum disulfide, NLG #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	
- 1 SM	Use silicone grease.	
LOCK	Apply a locking agent. Use a middle strength locking agent unless otherwise specified.	
SEADU	Apply sealant.	
STARF	Use DOT 4 brake fluid. Use the recommended brake fluid unless otherwise specified.	
4 _{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 may 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.

A WARNING

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

HOT COMPONENTS

Á WARNING

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 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 FLUID

CAUTION:

Spilling fluid on painted, 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.

BATTERY HYDROGEN & ELECTROLYTE

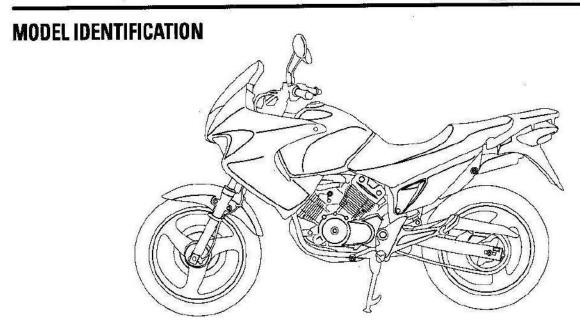
AWARNING

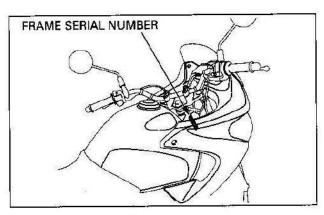
- The battery gives off explosive gases; keep sparks, flames and cigarettes away. Provide adequate ventilation when charging or using the battery in an enclosed space.
- The battery contains sulfuric acid (electrolyte).
 Contact with skin or eyes may cause severe burns.
 Wear protective clothing and 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 immediately.
- · 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.

GENERAL INFORMATION

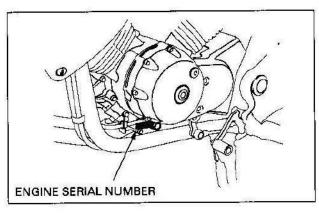
SERVICE RULES

- 1. Use genuine HONDA or HONDA-recommended parts and lubricants or their equivalents. Parts that do not meet HONDA's design specifications may damage the motorcycle.
- 2. Use the special tools designed for this product.
- 3. Use only metric tools when servicing this motorcycle. Metric bolts, nuts and screws are not interchangeable with English fasteners. The use of incorrect tools and fasteners may damage the motorcycle.
- 4. Install new gaskets, O-rings, cotter pins, lock plates, etc. when reassembling.
- 5. When tightening a series of bolts or nuts, begin with the larger-diameter of Inner bolts first, and tighten to the specified torque diagonally, in incremental steps unless a particular sequence is specified.
- 6. Clean parts in cleaning solvent upon disassembly. Lubricate any sliding surfaces before reassembly.
- 7. After assembly, check all parts for proper installation and operation.
- 8. Route all electrical wires as show on pages 1- through 1- , Cable and Harness Routing.

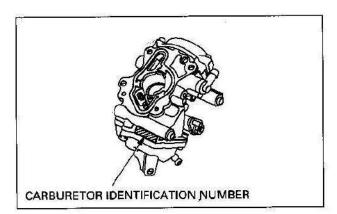




The frame serial number is stamped on the right side of the steering head.



The engine serial number is stamped on the left side of the crankcase.



The carburetor serial number is stamped on the left side of the carburetor body as shown.

GENERAL INFORMATION

SPECIFICATIONS

GENERAL	ITEM	SPECIFICATIONS
DIMENSIONS	Overall length Overall width Overall height Wheelbase Seat height Ground clearance Dry weight Curb weight Maximum weight capacity	2,150 mm (84.6 in) 850 mm (33.5 in) 1,250 mm (49.2 in) 1,450 mm (57.1 in) 802 mm (31.6 in) 190 mm (7.5 in) 154 kg (339.5 lbs) 167 kg (368.2 lbs) 180 kg (396.8 lbs)
FRAME	Frame type Front suspension Front wheel travel Rear suspension Rear wheel travel Front tire size Rear tire size Front tire brand Rear tire brand Front brake Rear brake Caster angle Trail length Fuel tank reserve capacity	Double cradle Telescopic fork 132 mm (5.2 in) Swingarm 150 mm (5.9 in) 100/90–18 56P 130/80–17 65P BRIDGESTONE, PIRELLI BRIDGESTONE, PIRELLI Hydraulic single disc Hydraulic single disc 28°00' 97 mm (3.8 in) 17.5 liter (4.62 US gal, 3.85 lmp gal) 2.0 liter (0.53 US gal, 0.44 lmp gal)
ENGINE	Bore and stroke Displacement Compression ratio Valve train Intake valve opens closes Exhaust valve opens closes Lubrication system Oil pump type Cooling system Air filtration Engine dry weight	42.0 x 45.0 mm (1.65 x 1.77 in) 125 cm³ (7.6 cu in) 11.8 : 1 Silent multi-link chain driven SOHC with rocker arms 6° BTDC 24° ABDC 31° BBDC

1-4

GENERAL INFORMATION

GENERAL (Cont'd)		SPECIFICATIONS	
CARBURETOR	Carburetor Type Throttle bore		CV (Constant Velocity) dual carburetor 22 mm (0.9 in)
DRIVE TRAIN	Clutch system Clutch operation system Transmission Primary reduction Final reduction Gear ratio	1st 2nd 3rd 4th 5th	Multi-plate, wet Mechanical type Constant mesh, 5-speed 3.722 (67/18) 3.142 (44/14) 3.083 (37/12) 1.933 (29/15) 1.428 (30/21) 1.173 (27/23) 1.000 (25/25) Left foot operated return system, 1-N-2-3-4-5
ELECTRICAL	Ignition system Sterting system Charging system Regulator/rectifier Lighting system		Full transistor digital ignition Electric starter motor Triple phase output alterator SCR shorted/triple phase, full wave rectification Battery