

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

Husaberg - Husaberg_2000_Manual_de_intretinere

INDEX

SAFETY AND PRECAUTIONS Page 4

GENERAL INFORMATION Page 6

MAINTENANCE SCHEDULE Page 9

CONTROLS Page 12

WIRING DIAGRAMS Page 31

INTRODUCTION Page 2

STARTING PROCEDURE Page 15

ENGINE Page 16

A LUBRICATION SYSTEM

B IGNITION

C AIR FILTER

D VALVE ADJUSTMENT

WHEELS & BRAKES Page 23

A WHEELS

B CHAIN

C BRAKES

SUSPENSION Page 28

A SUSPENSION

B STEERING HEAD

C SWINGARM

FUEL & COOLING Page 20

A CARBURETTOR

B FUEL

C COOLING SYSTEM

CLUTCH & DECOMPRESSION Page 22

INTRODUCTION

Please read and observe the following:

Warning

If the engine has to be running during any maintenance, make sure that the area is properly ventilated. Never run the engine in a closed area though the exhaust fumes are poisonous and thus hazardous to your health and life.

Warning

Although the battery is of a sealed construction, please take care. The electrolyte contains sulfuric acid and you must protect your eyes, skin and clothing if such fluid is assumed to be leaking or likewise exposed. In case of contact, wash and flush thoroughly with water and contact medical help if needed, especially if your eyes have been exposed to the fluid.

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

Warning

Fuel is extremely flammable and explosive under certain conditions. Do not smoke or expose the fuel to open fire or sparks.

SERVICE CONDITIONS:

1. Always use original Husaberg parts.
2. Use the special Husaberg tools when required.
3. Install new gaskets, o-rings, circlips etc whenever possible.
4. Always clean all parts thoroughly before assembly.
5. All screws, nuts and bolts etc. are in the metric system. Do not use incorrect tools.

Endurovägen, S-695 72 SWEDEN

www.husaberg.se

force@husaberg.se

PRINT & COPY RIGHTS

The material and information included in this Owners Manual are all of the latest editions available at the time of the printing.

Husaberg Motor AB reserves the right to make changes regarding the products at any time without prior notice.

This Owners Manual is subject to corrections without prior notice.

No part of this Owners Manual may be reproduced without written permission

INTRODUCTION

Always put the motorcycle on a stable centerstand whenever removing either front or rear wheel.

ATTENTION:

Never ride your motorcycle under the influence of alcohol, drugs, barbiturates or any other kind of medical treatments hazardous to your riding performance.

ATTENTION:

Never ride in a too low or too high gear.

Never let the engine run for more than one minute while stationary.

It may cause severe mechanical damages.

ATTENTION:

Service more frequently when riding under hard conditions

ATTENTION:

Do not use a high pressure jet-cleaning equipment on surfaces around bearings and other fragile components.

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

WARNING:

Do not check the coolant
level while the engine is hot.

ATTENTION:

Less clearances than the required cause severe engine damages

Dear client,

We feel ourselves privileged and honoured to be the supplier of your choice of motorcycle. We know for sure that our product will give you years of fun and performance though the Husabergs are based upon decades of experience in racing and a dedication hard to find elsewhere. You're bound to feel this through the inborn lively spirit of your bike.

Although mainly designed and constructed for competition purposes it is still very rider-friendly but due to the design the product needs careful and proper maintenance. In order to get the most out of your "beast" and before any use of the motorbike; we highly recommend you to carefully read this Owner's Manual through. We also recommend you to pay your utmost attention to the following page regarding safety and precautions and always remember the fundamental base of all activities on two wheels:

- "Do not overestimate your capabilities, follow the domestic regulations and do think about your surroundings"

Although the Owner's Manual is put together and written in a way that will make it possible for an average mechanical experienced person to take care of the maintenance, we recommend you to let an authorized Husaberg dealer take care of at least the parts we've mentioned under:

Also, part of the maintenance has to be performed by an authorized dealer in order to fulfill the terms of warranty.

If you follow the advice regarding the set-up and of course also regarding the vital maintenance of the motorcycle; the Husaberg of yours will provide a maintained level of performance (read: joy and satisfaction - the reason to your choice of brand).

The personnel of Husaberg Motor AB Sweden

SAFETY AND PRECAUTIONS

Never ride your motorcycle under the influence of alcohol, drugs, barbiturates or any other kind of medical treatments hazardous to your riding performance.

ATTENTION:

SAFETY

PROTECTION:

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

Always protect yourself with adequate clothing and protective apparel.
Always wear a helmet, goggles and boots.

MOTORCYCLE:

The motorcycle may become dangerous to ride if it is modified or if any other parts than original Husaberg parts are used. The use of other parts than original makes the warranty no longer valid.

Always keep your motorcycle in a safe state and in the best of conditions.

Regular cleaning and maintenance are extremely vital in order to avoid any mechanical damages hazardous to you and/or your surroundings.

TRANSPORTATION:

Always transport your bike upright in order to avoid any leakages of oil and/or fuel. Such fluids may increase the risk of fire. Always make sure that the bike is properly fastened in a safe and firm position during transportation.

RIDING:

Always check the motorcycle for any deterioration/damages and any necessary adjustments before you start the motorcycle (see "Pre-ride inspection").

Though the Husaberg motorcycle has a very high level of performance; always ride with care and do not overestimate your capabilities. Get to know your Husaberg motorcycle really well before you try to get the most out of it.

Never lend your motorcycle to any other rider unless you are sure that he/she is fully capable of handling it.

Always obey all local and federal regulations and laws valid within the territory.

Never ride in terrain unfamiliar to you unless inspected and guaranteed by the local authorities.

PRE-RIDE INSPECTION:

Make it a habit to give your motorcycle an inspection before and after every ride.

Always check all bolts and nuts and tighten if necessary - All for your own safety.

A clean and well lubricated bike makes for a safer ride as well as a higher value of the machine. The Pre-ride Inspection Checklist on the next page is to be regarded as a brief summary of the main important items to be controlled and, if necessary; to be adjusted or replaced.

SAFETY AND PRECAUTIONS

PRE-RIDE INSPECTION CHECK LIST

Engine oil Check the level and fill up if necessary.

Check for any leakages in the casing.

Ignition Check the sparkplug cap/HV lead for damages.

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

Radiator Check the coolant level and fill up if necessary.

Check for leakages and/or damages of the cells and hoses and attachments.

Air filter Clean, or if necessary, replace the filter

Carburettor Check the function of the throttle/cable and adjust/replace any damaged parts if necessary.

Adjust the idling- and/or mixture screw if necessary.

Clutch Check the function and for any leakages.

Decompression Check the function of the manual and the semi-automatic decompression lever and adjust if necessary (non-electrical starter models only).

Chain Check and adjust/replace the chain if necessary.

Check the sprockets and replace if necessary.

Suspension Check the operation of the front fork and the shock absorber and adjust if necessary.

Check and tighten the swingarm if necessary.

Wheels Check the air pressure of the tyres and fill up if necessary.

Check the spokes and tighten if necessary.

Brakes Check the level of brake fluid and fill up if necessary.

Check for any leakages and the function of the brakes.

Adjust levers and/or replace hoses/pads if necessary.

Fuel Check the level and fill up if necessary.

Check for any leakages in the fuel lines.

Steering Check the clearance of the steering head bearings and adjust if necessary.

Controls Check the function of the speedometer or odometer (if incl. in equipment).

Lighting Check the functions of the front-, tail-, and brake lights (and any occurring turn signals).

GENERAL INFORMATION

SPECIFICATIONS

SUBJECT/MODEL ENDURO MOTOCROSS ELDURO DESERT (FX)

Engine type Liquid cooled, 4-stroke single cylinder, SOHC-4 valves

Displacements 400-models: 399cc / Bore 92,0 mm x Stroke 60,1 mm

501-models: 501cc / Bore 95,0 mm x Stroke 70,7 mm

600-models: 595cc / Bore 95,0 mm x Stroke 84,0 mm

Compression ratio 400-models: 12,0:1

501-models: 11,8:1

600-models: 11,6:1

Decompression system One automatic system activated by the camshaft, one activated by the kick starter and one operated by a manual lever Fully automatic system activated by the camshaft plus one operated by a

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

manual lever

Start system Kick starter Electrical- and kick starter

Decomp. cable clearance 2 mm ± 1 mm 2 mm ± 1 mm

Valve clearance Intake and Exhaust: 0,10 mm

Lubrication Orbit oilpump and reedvalve controlled lubrication

Engine oil Oil-cooled piston and connecting rod

Replaceable micro filter and washable oil screen

1,0 Litre Synthetic SAE 5W-50 API SG/CF (minimum SAE 15W-50)

Ignition SEM, CDI, DFC; Dynamic Force Control

Spark plug / gap NGK DCPR8E / 0,7 mm

Coolant 1,3 litre of 50% Anti-freeze, with corrosion inhibitor, and 50% water

Alternator 12 V / 70 + 70 W Not available 12 V / 70 + 70 W 12 V / 70 + 70 W

Exhaust system Inox steel pipes, 2 into 1 collector, Aluminium/Inox silencer (FC Titanium/Inox)

US-versions except FC models equipped with spark arrester

Fuel capacity All models except FR 600 E: 9 litres

FR 600 E: 25 litres

Chain 520 O-ring chain

Final drive ratio 15/42 - 2,800

15/42 - 2,800

Gear ratio 13/48 - 3,692 13/48 - 3,692 13/48 - 3,692

15/48 - 3,200 (15/48 - 3,200) 15/48 - 3,200 15/48 - 3,200

15/48 - 3,200 (15/42 - 2,800) 15/48 - 3,200 15/48 - 3,200

Carburettor 400-models: Dellorto PHM 38

501- & 600-models: Dellorto PHM 40

Dual Sport USA - FS 600: Edelbrock Qwiksilver 38

All models