

# GENERAL SUMMARY

Product: 2007 Ducati 1098/1098S Motorcycle Service Repair Workshop Manual  
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## General

Information about the model

Technical data

Use and maintenance

Fairings

Controls - Devices

Wheels - Suspension - Brakes

Frame

Fuel / Exhaust System

Injection - ignition system

Engine

Electric system

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## 1 - How to use this manual

This manual has been prepared for technical personnel at Ducati Authorized Service Centres with aim of providing fundamental information on how to work in accordance with the modern concepts of "best practice" and "safety in the workplace" during the maintenance, repair or replacement of original components of the cycle parts and engine of this motorcycle.

All operations described in this manual must be carried out by experienced, skilled technicians, who are required to follow the Manufacturer's instructions in full.

Some information has been intentionally omitted, since we consider that specialized technical personnel should have a basic technical background. Additional information on how to install various components is provided in the spare parts catalogue.



### Important

This manual also describes the essential checks to be carried out prior to delivery of the motorcycle.

Ducati Motor Holding S.p.A. declines all liability for any technical errors or omissions in this manual and reserves the right to make changes made necessary by the technical evolution of its products without prior notice.

The information contained herein was correct at the time of going to press.



### Important

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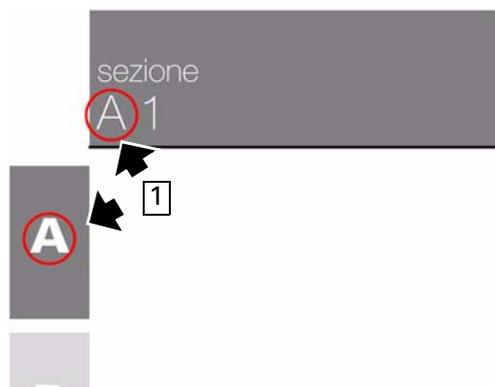
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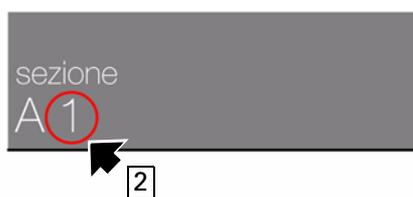
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Layout of the manual

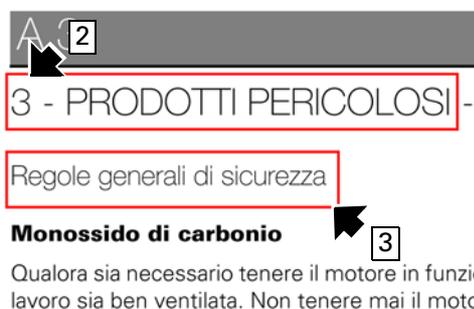
This manual is divided into sections (1), each identified by a letter.



Each section (1) includes several chapters (2), which are numbered consecutively.



The chapters (2) may be further subdivided into paragraphs (3).



The manual describes all repair operations starting from the fully assembled motorcycle.  
The full procedure is described up to the point in which the motorcycle is restored to its fully assembled starting condition.

● Important

Some of the sections of this manual are not included, since the motorcycle in question is not equipped with the relevant parts.

● Important

The layout of the manual is designed in such a way as to be applicable to all the different models manufactured by DUCATI MOTOR HOLDING.

To facilitate reading of the manual, the table of contents of the chapters is identical for all motorcycle models.

## 2 - Symbols - Abbreviations - References

To allow quick and easy consultation, this manual uses graphic symbols to highlight situations in which maximum care is required, as well as practical advice or information. Pay attention to the meaning of the symbols since they serve to avoid repeating technical concepts or safety warnings throughout the text. The symbols should therefore be seen as an aid to memory. Please refer to this page whenever in doubt as to their meaning.

The terms **right-hand (RH)** and **left-hand (LH)** are used with reference to the motorcycle's direction of forward travel.



Warning

Failure to comply with these instructions may put you at risk, and could lead to severe injury or even death.



Important

Failure to follow the instructions in text marked with this symbol can lead to serious damage to the motorcycle and its components.



Notes

This symbol indicates additional useful information for the current operation.

Text references

**(X)**

References in bold type indicate a part that is not illustrated in the figures next to the text, but which can be found in the exploded views at the beginning of each chapter.

(X)

References in non-bold type indicate a part that is illustrated in the figures alongside the text.

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Product specifications

Symbols in the diagram show the type of threadlocker, sealant or lubricant to be used at the points indicated. The table below shows the symbols used and the specifications of the various products.

Symbol	Specifications	Recommended product
	Engine oil (for specifications, see Sect. C 2, Fuel, lubricants and other fluids).	SHELL Advance Ultra 4
	DOT 4 special hydraulic brake fluid.	SHELL Advance Brake DOT 4
	SAE 80-90 gear oil or special products for chains with O-rings.	SHELL Advance Chain or Advance Teflon Chain
	Anti-freeze (nitride, amine and phosphate free) 30 to 40% solution in water.	SHELL Advance coolant or Glycoshell
	GREASE A Multipurpose, medium fibre, lithium grease.	SHELL Alvania R3
	GREASE B Molybdenum disulphide grease, high mechanical stress and high temperature resistant.	SHELL Retinax HDX2
	GREASE C Bearing/joint grease for parts subject to prolonged mechanical stress. Temperature range: -10 to 110 °C.	SHELL Retinax LX2
	GREASE D Protective grease, with anti-corrosive and waterproofing properties.	SHELL Retinax HD2
	GREASE E PANKL grease - PLB 05.	
	GREASE F OPTIMOL grease - PASTE WHITE T.	
	LOCK 1 Low-strength threadlocker.	Loctite 222
	LOCK 2 Medium-strength threadlocker, compatible with oil.	Loctite 243
	LOCK 3 High-strength threadlocker for threaded parts.	Loctite 270
	LOCK 4 Flange sealant resistant to high mechanical stress and solvents. Resists high temperatures (up to 200 °C) and pressures up to 350 Atm; fills gaps up to 0.4 mm.	Loctite 510
	LOCK 5 Permanent adhesive for smooth or threaded cylindrical fasteners on mechanical parts. High resistance to mechanical stress and solvents. Temperature range: -55 to 175 °C.	Loctite 128455
	LOCK 6 Pipe sealant for pipes and medium to large fasteners. For water and gases (except oxygen). Maximum filling capacity: 0.40 mm diameter clearance.	Loctite 577
	LOCK 7 Speed bonder for rubber and plastics with elastomer charged ethylic base.	Loctite 480

Symbol	Specifications	Recommended product
	LOCK 8 High-strength retaining compound for threaded parts, bearings, bushes, splines and keys. Temperature range: -55 to 150 °C.	Loctite 601
	LOCK 9 Medium-strength threadlocker.	Loctite 401
	LOCK 10 Product for metal parts to seal and lock cylindrical freely sliding or threaded couplings. Resistant to high mechanical stress and high temperature, excellent resistance to solvents and chemical attack.	Loctite 128443
	LOCK 11 Instant adhesive gel offering tensile/shear strength.	Loctite 454 gel
	DUCATI liquid gasket.	942470014
	Exhaust pipe paste. Self-sealing paste, hardens when heated; resists temperatures exceeding 1000 °C.	Holts Firegum
	Spray used to protect electrical systems. Eliminates moisture and condensation and provides excellent corrosion resistance. Water repellent.	SHELL Advance Contact Cleaner
	Dry lubricant, polymerizing on contact with air	Molycote D321R Molycote M55 Plus

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## 3 - Hazardous Products - Warnings

**A**

General safety rules

Carbon monoxide

When a maintenance operation must be performed with the engine running, make sure that the working area is well-ventilated. Never run the engine in an enclosed space.



Warning

Exhaust fumes contain carbon monoxide, which is a poisonous gas that can cause unconsciousness or even death if inhaled.

**C**

Run the engine outdoors or, if working indoors, use an exhaust fume extraction system.

Fuel

Always make sure the working area is well ventilated. Keep any sources of ignition, such as cigarettes, open flames or sparks, well away from the area in which fuel is stored.

**D**



Warning

Petrol is highly flammable and can explode under certain conditions. Keep away from children.

Hot parts



Warning

The engine and exhaust parts become hot when the motorcycle engine is running and will stay hot for some time after the engine has been stopped. Wear heat-resistant gloves before handling these components or allow the engine and exhaust system to cool down before proceeding.

**F**



Warning

The exhaust system might be hot, even after engine is switched off; take special care not to touch exhaust system with any part of your body and do not park the motorcycle next to inflammable material (wood, leaves, etc.).

Used engine oil



Warning

Prolonged or repeated contact with used engine oil may cause skin cancer. If working with engine oil on a daily basis, make it a rule to wash your hands thoroughly with soap immediately afterwards. Keep away from children.

**H**

Brake pad dust

Never clean the brake assemblies using compressed air or a dry brush.



Warning

Inhalation of asbestos fibres is a proven cause of respiratory illness and cancer.

**L**

Brake fluid



Warning

Avoid spilling brake fluid onto plastic, rubber or painted parts of the motorcycle to avoid the risk of damage. Protect these parts with a clean shop cloth before proceeding to service the motorcycle. Keep away from children.

**M**

Coolant

Engine coolant contains ethylene glycol, which may ignite under particular conditions, producing invisible flames. Although the flames from burning ethylene glycol are not visible, they are still capable of causing severe burns.

**N**



Warning

Take care not to spill engine coolant on the exhaust system or engine parts. These parts may be hot and ignite the coolant, which will subsequently burn with invisible flames.

**P**

Coolant (ethylene glycol) is an irritant and is poisonous when ingested. Keep away from children.  
Never remove the radiator cap when the engine is hot. The coolant is under pressure and will cause severe burns if it comes into contact with the skin.

The cooling fan operates automatically: keep hands well clear and make sure your clothing does not snag on the fan.

Battery



Warning

The battery produces explosive gases; keep it away from any source of ignition such as sparks, flames and cigarettes.  
When charging the battery, ensure that the working area is properly ventilated.

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General maintenance indications

**A** Useful tips

Ducati recommends that you follow the instructions below in order to prevent problems and obtain the best end result:

- When diagnosing faults, primary consideration should always be given to what the customer reports about motorcycle operation since this information can highlight anomalies; your questions to the customer concerning symptoms of the fault should be aimed at clarifying the problem;
- diagnose the problem systematically and accurately before proceeding further. This manual provides the theoretical background for troubleshooting; this basis must be combined with personal experience and attendance at periodic training courses held by Ducati;
- repair work should be planned carefully in advance to prevent any unnecessary downtime, for example obtaining the required spare parts or preparing the necessary tools, etc.;
- limit the number of operations needed to access the part to be repaired. Note that the disassembly procedures in this manual describe the most efficient way to reach the part to be repaired.

**B**

**C**

General advice on repair work

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- Always use top quality tools. When lifting the motorcycle, only use devices that comply fully with the relevant European directives.
- When working on the motorcycle, always keep the tools within reach, ideally in the order required, and never put them on the motorcycle or in hard-to-reach or inaccessible places.
- The workplace must be kept clean and tidy at all times.
- Always replace gaskets, seals and split pins with new parts.
- When loosening or tightening nuts and bolts, always start with the largest or start from the centre; tighten nuts and bolts to the specified torque working in a crosswise sequence.
- Always mark any parts and positions which might easily be confused at the time of reassembly.
- Use exclusively Ducati original replacement parts and the recommended brands of lubricants.
- Use special service tools where specified.
- Ducati Technical Bulletins often contain updated versions of the service procedures described in this manual. Check the latest Bulletins for details.

Information about the model

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1 - Identification data

3

Identification data for the Superbike 1098

3

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## 1 - Identification data

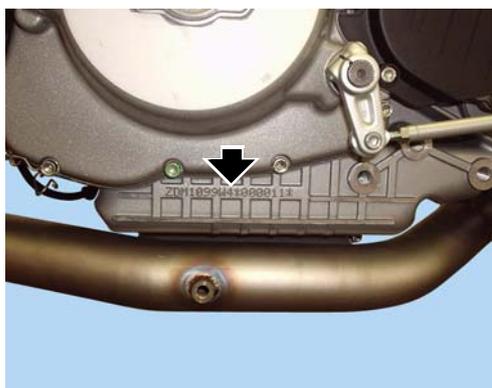
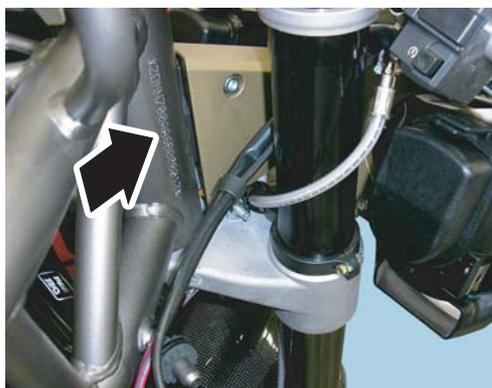
Identification data for the Superbike 1098

Each Ducati motorcycle has two identification numbers - the frame number and the engine number - and an EC nameplate (A) **(not present on the US version)**.



Notes

Please quote these numbers, which identify the motorcycle model, when ordering spare parts.



(A)

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Data stamped on the frame

Europe version

- 1 Manufacturer: Ducati Motor Holding
- 2 Type, same on all 1098 models.
- 3 Variant
- 4 Version
- 5 Year of manufacture (7=2007)
- 6 Manufacturing facility
- 7 Progressive serial No.

**Data stamped on the frame  
Europe version**

① ② ③ ④ ⑤ ⑥ ⑦  
ZDM H7 00 AA X B 000001

Data stamped on the frame

US version

- 1 Manufacturer: Ducati Motor Holding
- 2 Motorcycle type
- 3 Variant – Numeric or X (Check digit)
- 4 Model year (7=2007)
- 5 Manufacturing facility
- 6 Progressive serial No.

**Data stamped on the frame  
US version**

① ② ③ ④ ⑤ ⑥  
ZDM 1 X B EW ★ X B 000000

★ Variant - numeric from 0 to 9  
or X (Check digit)

Data stamped on engine

Europe version

- 1 Manufacturer: Ducati Motor Holding
- 2 Engine type
- 3 Progressive production No.

**Data stamped on engine  
Europe version**

ZDM 1098W4\*000002\*

1 2 3

Data stamped on engine

US version

- 1 Engine type
- 2 Model year
- 3 Progressive production No.

**Data stamped on engine  
US version**

XBE X 000001

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Technical data

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Sample of manual. Download All 714 pages at:  
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