

MOTO GUZZI WOULD LIKE TO THANK YOU

for choosing one of its products. We have drawn up this manual to show you all the features of your motorcycle. Please read it carefully before riding the motorcycle for the first time. It contains information, tips and precautions for using your vehicle. You will also discover features, details and devices which will reassure you that you have made the right choice. We believe that if you follow our suggestions, you will soon get to know your new motorbike inside and out and it will serve you well for a long time to come. This booklet is an integral part of the vehicle; should the vehicle be sold, it must be transferred to the new owner.

V100 Mandello - V100 Mandello S



The instructions contained in this booklet were written to provide a simple and clear guide for use of the vehicle. The manual also details routine maintenance procedures and regular checks that should be carried out on the vehicle at an authorized Moto Guzzi Dealer or **Service Center**, as well as instructions for some simple maintenance items. Procedures not described in detail here require the use of special tools and/or specific technical knowledge: we therefore advise you to contact an **authorized Moto Guzzi Dealer or Workshop** if you need them to be carried out.



Personal safety

Failure to completely observe these instructions will result in serious risk of personal injury.



Protecting the environment

Sections marked with this symbol indicate the correct use of the vehicle to prevent damaging the environment.



Vehicle condition

The incomplete or lack of observance to these regulations can lead to risk of serious damage to the vehicle and may even invalidate the warranty.

The signs pictured above are very important. They work to highlight those parts of the booklet that should be read with particular care. As you can see, each sign consists of a different graphic symbol, making it quick and easy to locate the various topics. Before you start the engine, read this booklet carefully, paying particular attention to the chapter on "General Safety Rules ". Your safety and that of other road users depends as much on your ability to respond to other traffic and unexpected occurrences as on your familiarity with your vehicle, the vehicle's efficiency and your knowledge of basic SAFE RIDING techniques. We therefore recommend that you should take the time to familiarize yourself with your vehicle, so that you can move in road traffic confidently and safely. IMPORTANT This booklet is an integral part of the vehicle and must be kept with the vehicle, even though the vehicle is sold.

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Chap. 01
General rules

General Safety Rules

Before starting the engine, carefully read this use and maintenance manual and in particular the chapters "GENERAL PRECAUTIONS AND WARNINGS" and "SAFE RIDING".

Your safety and that of other persons depends not only on your driving skills, but also on your knowledge of the vehicle and how to drive safely. Therefore, it is essential not to use the vehicle on public roads or highways before having received instructions from a qualified safety organization such as the Motorcycle Safety Foundation, having an adequate training and having a motorcycle driving license.

Foreword

NOTE

THIS USE AND MAINTENANCE MANUAL IS AN IMPORTANT DOCUMENT AND MUST ALWAYS BE KEPT WITH THE VEHICLE. IF THE VEHICLE IS RESOLD, PLEASE PROVIDE THIS MANUAL TO THE NEW OWNER.

Moto Guzzi has created this use and maintenance manual to provide you, the user, with correct and updated information. However, considering the fact that **Moto Guzzi** is constantly improving the design of its vehicles, there may be slight differences between the characteristics of the vehicle in your possession and the information contained in this use and maintenance manual. For any questions concerning your vehicle, contact your local **Moto Guzzi** dealer who will always be updated with the latest information available from the company. For checks and repairs not expressly described in this manual, the purchase of original spare parts, accessories and other **Moto Guzzi** products, as well as support on specific problems, contact your local **Moto Guzzi** dealer or service centre. These professionals will provide you a quick and accurate service.

Thank you for choosing **Moto Guzzi**.

We wish you a pleasant ride!

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Carbon Monoxide

IMPORTANT



EXHAUST EMISSIONS CONTAIN CARBON MONOXIDE, A POISONOUS GAS WHICH CAN CAUSE LOSS OF CONSCIOUSNESS AND EVEN DEATH.

IMPORTANT



CARBON MONOXIDE IS ODOURLESS AND COLOURLESS, THEREFORE IT CANNOT BE DETECTED BY SMELL, SIGHT OR OTHER SENSES. DO NOT BREATHE IN EXHAUST FUMES UNDER ANY CIRCUMSTANCES.

Fuel

IMPORTANT



FUEL USED TO DRIVE EXPLOSION ENGINES IS HIGHLY INFLAMMABLE AND CAN BECOME EXPLOSIVE UNDER SPECIFIC CONDITIONS. IT IS THEREFORE RECOMMENDED TO CARRY OUT REFUELLING AND MAINTENANCE PROCEDURES IN A VENTILATED AREA WITH THE ENGINE SWITCHED OFF. DO NOT SMOKE DURING REFUELLING OR NEAR FUEL VAPOUR. AVOID ANY CON-

TACT WITH NAKED FLAME, SPARKS OR OTHER HEAT SOURCES WHICH MAY CAUSE IGNITION OR EXPLOSION.

DO NOT ALLOW FUEL TO DISPERSE INTO THE ENVIRONMENT.

KEEP OUT OF THE REACH OF CHILDREN.



IF THE VEHICLE FALLS OR IS ON A STEEP INCLINE FUEL CAN LEAK.

Hot Components

The engine and the exhaust system components get very hot and remain in this condition for a certain time interval after the engine has been switched off. Before handling these components, make sure that you are wearing insulating gloves or wait until the engine and the exhaust system have cooled down.

Warning Lights



IF THE ALARM WARNING LAMPS ILLUMINATE DURING THE NORMAL ENGINE OPERATION, THIS MEANS THAT THE ELECTRONIC CONTROL UNIT HAS FOUND AN ABNORMALITY.



IF THE GENERAL ALARM WARNING LAMP FLASHES DURING THE NORMAL ENGINE OPERATION, THIS MEANS THAT THE OIL PRESSURE IN THE CIRCUIT IS INSUFFICIENT. IN THIS CASE THE ENGINE MUST BE SHUT OFF IMMEDIATELY IN ORDER TO PREVENT POSSIBLE DAMAGE.



PERFORM THE MOTOR OIL LEVEL CHECK. IF THE INSUFFICIENT MOTOR OIL PRESSURE LIGHT REMAINS DESPITE THE ABOVE PROCEDURE BEING PERFORMED CORRECTLY, CONTACT AN AUTHORIZED Moto Guzzi Dealer TO HAVE THE SYSTEM CHECKED.

Coolant

Coolant contains ethylene glycol, which may be flammable in certain conditions. Ethylene glycol burns with an invisible flame which may still cause burns.

IMPORTANT



TAKE PARTICULAR CARE NOT TO SPILL COOLANT ONTO HOT PARTS OR THE ENGINE AND EXHAUST SYSTEM; THE FLUID MAY IGNITE AND BURN WITH AN INVISIBLE FLAME. WHEN CARRYING OUT MAINTENANCE, IT IS ADVISABLE TO WEAR LATEX GLOVES. WHILE POISONOUS, COOLANT HAS A SWEET TASTE WHICH MAKES IT EXTREMELY APPEALING TO ANIMALS. NEVER LEAVE COOLANT IN OPEN CONTAINERS WHERE IT MAY BE REACHED AND DRUNK BY AN ANIMAL.

KEEP OUT OF THE REACH OF CHILDREN.

NEVER REMOVE THE RADIATOR CAP WHILE THE ENGINE IS STILL HOT. COOLANT IS UNDER PRESSURE AND MAY CAUSE BURNS.

Used Engine Oil and Gearbox Oil

IMPORTANT



WHEN CARRYING OUT MAINTENANCE OPERATIONS, IT IS ADVISABLE TO WEAR PROTECTIVE IMPERMEABLE GLOVES.

THE ENGINE OR GEARBOX OIL MAY CAUSE SERIOUS INJURIES TO THE SKIN IF HANDLED FOR PROLONGED PERIODS OF TIME AND ON A REGULAR BASIS.

WASH YOUR HANDS CAREFULLY AFTER HANDLING OIL.

HAND THE OIL OVER TO OR HAVE IT COLLECTED BY THE NEAREST USED OIL RECYCLING COMPANY OR THE SUPPLIER.

DO NOT DISPOSE OF OIL IN THE ENVIRONMENT

KEEP OUT OF THE REACH OF CHILDREN.

Brake fluid



BRAKE FLUID MAY BE HARMFUL TO PAINTWORK, PLASTIC AND RUBBER. WHEN SERVICING THE BRAKING SYSTEM, PROTECT THESE COMPONENTS WITH A CLEAN CLOTH. ALWAYS WEAR PROTECTIVE GOGGLES WHEN SERVICING THESE SYSTEMS. BRAKE FLUID IS EXTREMELY HARMFUL TO THE

EYES. IN THE EVENT OF ACCIDENTAL CONTACT WITH THE EYES, RINSE THE EYES IMMEDIATELY WITH PLENTY OF COOL, CLEAN WATER AND SEEK IMMEDIATE MEDICAL ATTENTION.

KEEP OUT OF THE REACH OF CHILDREN.

Battery Hydrogen Gas and Electrolyte

IMPORTANT



THE BATTERY ELECTROLYTE IS TOXIC, CORROSIVE AND, AS IT CONTAINS SULPHURIC ACID, MAY CAUSE BURNING IF IT COMES INTO CONTACT WITH THE SKIN. WHEN HANDLING BATTERY ELECTROLYTE, WEAR TIGHT-FITTING GLOVES AND PROTECTIVE APPAREL. IN THE EVENT OF SKIN CONTACT WITH THE ELECTROLYTIC FLUID, RINSE WELL WITH PLENTY OF CLEAN WATER. IT IS PARTICULARLY IMPORTANT TO PROTECT YOUR EYES BECAUSE EVEN TINY AMOUNTS OF BATTERY ACID MAY CAUSE BLINDNESS. SEEK SPECIALISED MEDICAL ATTENTION IMMEDIATELY IN THE EVENT OF CONTACT WITH THE EYES. THE BATTERY RELEASES EXPLOSIVE GASES; KEEP IT AWAY FROM FLAMES, SPARKS, CIGARETTES OR ANY OTHER HEAT SOURCES. ENSURE ADEQUATE VENTILATION WHEN SERVICING OR RECHARGING THE BATTERY.

KEEP OUT OF THE REACH OF CHILDREN.

BATTERY LIQUID IS CORROSIVE. DO NOT POUR OR SPILL ON PLASTIC COMPONENTS IN PARTICULAR. ENSURE THAT THE ELECTROLYTIC ACID IS COMPATIBLE WITH THE BATTERY BEING ACTIVATED.

General Precautions and Warnings

DANGER OF OVERHEATING

WHEN THE VEHICLE IS STATIONARY, DO NOT KEEP THE ENGINE RUNNING MORE THAN NECESSARY, THIS MAY CAUSE EXCESSIVE OVERHEATING. IN EXTREME CASES, RISK OF FIRE.

- WHEN THE VEHICLE IS STATIONARY, DO NOT UNNECESSARILY RUN THE ENGINE.
- START IMMEDIATELY AFTER IGNITION, MAKING SURE TO RIDE A SHORT INITIAL DISTANCE AT LOW RPM.
- AFTER USE, AS SOON AS PARKED, THE ENGINE MUST BE IMMEDIATELY TURNED OFF.
- AFTER USE, DO NOT PLACE OBJECTS IN CONTACT WITH THE VEHICLE, WHEN IT IS STILL HOT, AS THEY COULD IGNITE (E.G. PROTECTIVE FABRICS, JACKET, ETC.).

TAMPERING

- NEVER TAMPER WITH ANY PART OF THE MOTORCYCLE (E.G. ENGINE CONTROL UNIT, THROTTLE VALVES, CLUTCH, EXHAUST SYSTEM, ETC.). THIS MAY CAUSE DAMAGE TO THE COMPONENTS INVOLVED, FAILURE OF RELEVANT SAFETY FUNCTIONS AND LOSS OF THE WARRANTY.

DANGER OF BURNS

IN CASE OF OVERHEATING OF THE ENGINE AND EXHAUST SYSTEMS WHILE RUNNING, PAY PARTICULAR ATTENTION:

- DANGER OF BURNS:
- AFTER TURNING OFF THE VEHICLE, PAY ATTENTION THAT NO PERSON OR OBJECT COMES IN CONTACT WITH THE ENGINE AND THE EXHAUST SYSTEM.

Unless otherwise specified in this Use and Maintenance Manual, do not remove any mechanical or electrical component.

IMPORTANT

SOME CONNECTORS IN THE VEHICLE MAY BE ACCIDENTALLY SWAPPED AND MAY COMPROMISE NORMAL VEHICLE OPERATION IF INCORRECTLY INSTALLED.

If you have any questions regarding your warranty rights and responsibilities, please contact Piaggio Group Americas, Inc., 257 Park Avenue South, 4th Floor New York, NY 10010, U.S.A. Telephone number: (212) 380 4400, the U.S. Environmental Protection Agency, 2000 Traverwood Ann Arbor, MI 48105 or the California Air Resources Board at P.O. Box 8001, 9528 Telstar Avenue, El Monte, CA 91734-8001.

If it is found that your vehicle has a defect that could cause an accident, injury or death, immediately report it to NHTSA (**National Highway Traffic Safety Administration**) and **Moto Guzzi**. If NHTSA receives other similar information, it could initiate an investigation, and if a safety defect is found affecting a group of vehicles it could request its withdrawal or the application of corrective measures. In any case, the NHTSA does not intervene in the event of individual problems between persons, dealers or **Moto Guzzi**. To contact NHTSA, call the **Vehicle Safety Hotline** toll-free number (888 327 4236) or write to: U.S. Department of Transportation, National Highway Safety Administration, 1200 New Jersey Ave., SE, Washington DC 20590. For more information regarding vehicle safety, call the toll-free number.

Your safety and that of the persons around you depends not only on your driving skills, but also on your knowledge of the vehicle and the safety rules.

Therefore, it is essential not to use the vehicle on public roads or highways before having received instructions from a qualified and prepared safety organization, for example MOTORCYCLE SAFETY FOUNDATION.

LIST OF DEFECTS THAT COMPROMISE THE SAFETY

If it is found that your vehicle has a defect that could cause an accident or death, immediately report it to the National Highway Traffic Safety Administration (NHTSA), a section of the American Department of Transportation.

After receiving information on alleged defects, NHTSA could open an investigation to find out if there is a group of defective vehicles on the market. At that point, it could launch an information campaign and recall the vehicles from the market. However, neither the NHTSA nor the Department of Transportation will be involved in personal matters regarding the consumer and manufacturer.

Additional information can be obtained by calling the specified number.

Road Regulations and Use of the Motorcycle

The road traffic code rules vary from state to state. It is extremely important to know in advance the road traffic code rules of the country where the vehicle will be used.

IMPORTANT



THIS VEHICLE HAS BEEN DESIGNED TO BE USED ON ASPHALT ROADS ONLY. IT WAS NOT DESIGNED TO BE USED ON OFF-ROAD TRACKS, RACE CIRCUITS, OFF-ROAD OR FOR MOTOCROSS COMPETITIONS. DO NOT RIDE THIS VEHICLE ON UNEVEN SURFACES, DIRT OR GRAVEL ROADS. FAILURE TO FOLLOW THESE WARNINGS COULD LEAD TO A FALL WITH CONSEQUENT INJURIES, EVEN DEATH.

Noise Emission Warranty

Piaggio & Co. S.p.A warrants that the exhaust system complies with all US **EPA** federal noise emission standards in effect at the time of production. Any questions concerning the exhaust system of this vehicle must be addressed to any authorised **Moto Guzzi** dealer or to the **Moto Guzzi** Customer Care by calling (212) 380 4433, or by writing to:

Moto Guzzi Customer Care c/o Piaggio Group Americas, Inc.

257 Park Avenue South, 4th Floor,

New York, NY 10010

U.S.A.

Origin of the Emissions

IMPORTANT



THE COMBUSTION PROCESS PRODUCES CARBON MONOXIDE AND HYDROCARBONS. THE CONTROL OF HYDROCARBONS IS VERY IMPORTANT BECAUSE UNDER CERTAIN CONDITIONS THEY REACT TO EXPOSURE TO SUNLIGHT AND PRODUCE PHOTO-CHEMICAL SMOG.

WHILE CARBON MONOXIDE DOES NOT REACT IN THE SAME WAY AS HYDROCARBONS, IT IS HIGHLY TOXIC AND HARMFUL. Moto Guzzi USES A CARBURETTOR ADJUSTMENT SET TO A "LEAN" MIXTURE AND OTHER SYSTEMS TO REDUCE THE PRODUCTION OF CARBON MONOXIDE AND HYDROCARBONS.

Tampering

It is forbidden to tamper the noise control system. The following actions are prohibited by federal law:

a) The removal and any action, by anyone, aimed at rendering inoperative, except for maintenance, repair or replacement, any device or design element incorporated in all new vehicles, in order to control the noise emission before sale or delivery of the vehicle to the final purchaser or while it is being used,

or

b) the use of the vehicle after this device or design element has been removed or rendered inoperative by any person.

These tampering actions also include the actions listed below:

a) Removal or perforation of the silencer, deflectors, manifold pipes or any other component for conveying the exhaust gases.

b) Disassembly or perforation of any component of the intake system.

c) Insufficient proper maintenance.

d) Replacement of any moving part of the vehicle or parts of the intake or exhaust system with parts other than those specified by the manufacturer.

e) Removal of decals or warning labels regarding emissions or safe vehicle operation. **ANY DAMAGE RESULTING FROM THE REMOVAL OF THE DECALS AND/OR THE WARNING LABELS WILL NOT BE COVERED BY THE TERMS OF THE MOTO GUZZI LIMITED WARRANTY FOR NEW VEHICLES.** Besides, many countries may refuse to grant registration of a vehicle that does not have the necessary emission and/or safety warning labels if these are not regularly attached to the vehicle. The vehicle owner must consider that Piaggio Group Americas, Inc. / Moto Guzzi USA will not recognise any warranty if the vehicle or any of its components is damaged or defective due to negligence, improper maintenance, unauthorized modifications, use in organised or non-organised competitions or in events such as Track Days.

IMPORTANT



THIS PRODUCT SHOULD BE REPAIRED OR REPLACED IF THE NOISE FROM THE VEHICLE INCREASES SIGNIFICANTLY DURING USE. OTHERWISE, THERE WILL BE SANCTIONS IMPOSED AGAINST THE OWNER IN ACCORDANCE WITH STATE OR LOCAL LAWS.

Problems that May Affect the Motorcycle Emissions

If one of the following symptoms are experienced, have the vehicle checked and repaired immediately by your local **Moto Guzzi** dealer.

Symptoms:

- Difficulty starting or stalling after starting.
- Ignition failure or early ignition during acceleration.
- Combustion delay (early ignition).
- Poor engine performance, reduced handling or excessive fuel consumption.

Position of the Warning Labels (01_01)



01_01

Label 1 (01_02, 01_03)

☐ MFD BY MOTO GUZZI DIVISION OF PIAGGIO & C. S.p.A.		☐ GVWR ??? KG (??? LB) GAWR F. ??? KG (??? LB) WITH ???/?? - ??? TIRE AND 2.?? x ?? MT DOT RIM AT ??? KPA (?? PSI) COLD GAWR R. ??? KG (??? LB) WITH ???/?? - ??? TIRE AND 2.?? x ?? MT DOT RIM or ???/?? - ??? TIRE AND 2.?? x ?? MT DOT RIM AT ??? KPA (?? PSI)	
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE			
VIN:			
☐ TYPE: MOTORCYCLE		☐	

USA

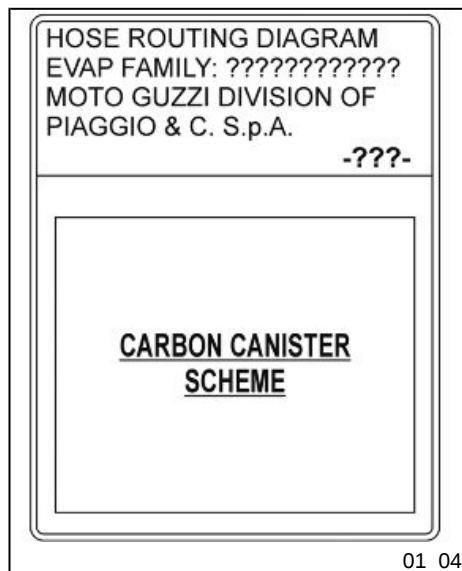
01_02

☐ MFD BY / FABRIQUE PAR:		☐ MOTO GUZZI DIVISION OF PIAGGIO & C. S.p.A.	
GVWR / PNBV. ??? KG FRONT / AVANT GAWR / PNBV. ??? KG REAR / ARRIERE GAWR / PNBV. ??? KG THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE. CE VEHICULE EST CONFORME A TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU REGLEMENT SUR LA SECURITE DES VEHICULES AUTOMOBILES DU CANADA EN VIGUEUR A LA DATE DE SA FABRICATION			
VIN / NIV:			
☐ TYPE: MC		☐ .???	

CDN

01_03

Label 2 (01_04)



01_04

Label 3 (01_05)

⚠ WARNING!

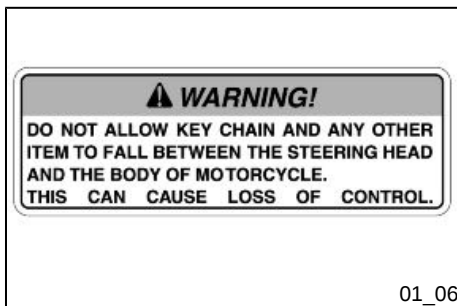
Do not use any tire other than those recommended and approved by Moto Guzzi. Maintain proper tire inflation. Do not use any tire with less than 1/8" (3mm) tread remaining. Do not repair any tire, nor use a repaired tire. Do not ride your motorcycle overloaded or with an unbalanced load. Failure to follow these warnings can lead to an accident and serious injuries or death. See owner's manual.

-???

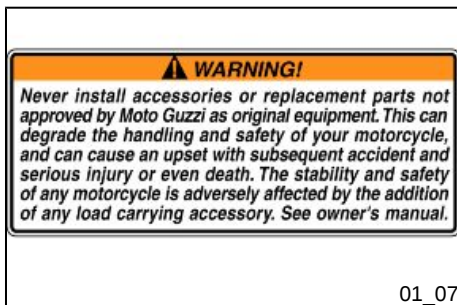
MOTO GUZZI

Tires pressure kPa - (psi)		Tires size	Front tire	
Front tire	Rear tire		Front tire	
???	???	Tires size	??????	{ ??'?? ??' ??
(??)	(??)		??????	
???	???		??????	
			Rear tire	
???	???		??????	{ ??'?? ??' ??
(??)	(42)		??????	
???	???		??????	

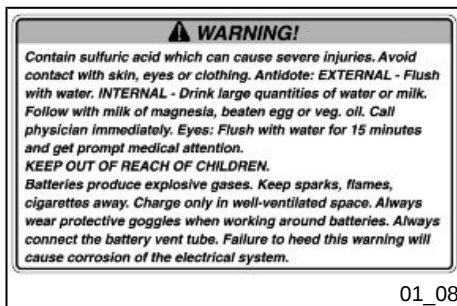
01_05



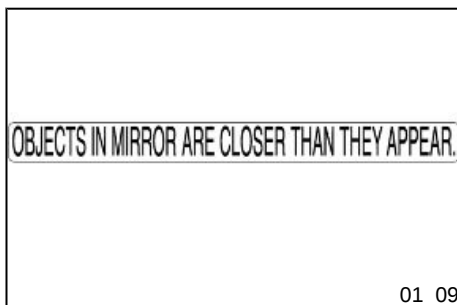
Label 4 (01_06)



Label 5 (01_07)



Label 6 (01_08)



Label 7 (01_09)

Label 8 (01_10)

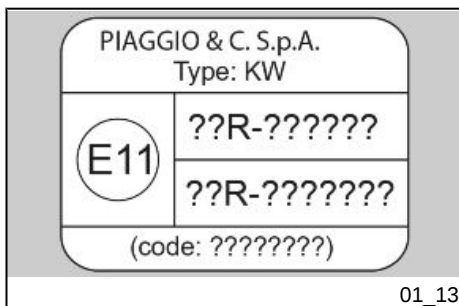
MOTORCYCLE NOISE EMISSION CONTROL INFORMATION THIS (MY) ?????????? MOTORCYCLE, ?????? MEETS EPA NOISE EMISSION REQUIREMENTS OF 80 dBA AT ???? closing r.p.m. BY FEDERAL TEST PROCEDURE. MODIFICATIONS WHICH CAUSE THIS MOTORCYCLE TO EXCEED FEDERAL NOISE STANDARDS ARE PROHIBITED BY FEDERAL LAW. SEE OWNER'S MANUAL. -???-  MOTO GUZZI

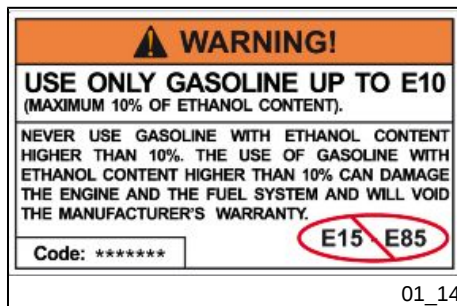
01_10

Label 9 (01_11)

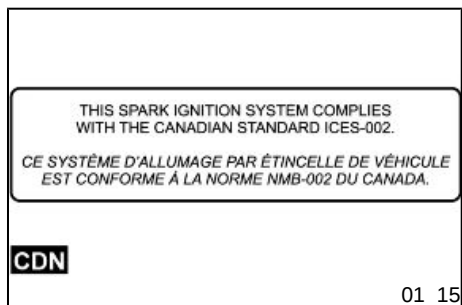
VEHICLE EMISSION CONTROL INFORMATION ENGINE DISPLACEMENT: ??? cc ENGINE FAMILY: ?????????? PERMEATION FAMILY: ????????????? THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA REGULATIONS APPLICABLE TO ???? MODEL YEAR NEW MOTORCYCLES AND IS CERTIFIED TO ?? HC+NO_x G/KM ENGINE FAMILY EXHAUST EMISSION STANDARD. ENGINE EXHAUST CONTROL SYSTEM: ????? ENGINE TUNE UP SPECIFICATIONS IGNITION TIMING: ??° ± ?° AT ???? RPM IDLE SPEED: ??? ± ??? RPM IN NEUTRAL VALVE CLEARANCE: INLET ????±?.??? inch (?.??±?.?? mm) OUTLET ????±?.??? inch (?.??±?.?? mm) SPARK PLUG: ????? FUEL: MINIMUM OCTANE RATING (M+R)/2 METHOD 90 OIL: ENGINE OIL VISCOSITY SAE ???-?? -???- MOTO GUZZI DIVISION OF PIAGGIO & C. S.p.A. V. le Rinaldo Piaggio, 25 56025 Pontedera (PI) ITALY  MOTO GUZZI	PIAGGIO GROUP AMERICAS, Inc.
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01_11

**Label 10 (01_12)****Label 11 (01_13)**



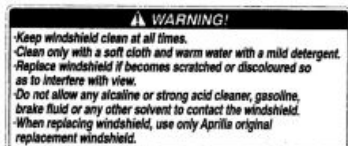
Label 12 (01_14)



Label 13 (01_15)

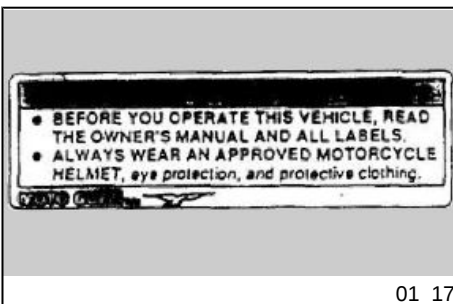
- Plate only on the Canada version vehicle.

Label 14 (01_16)

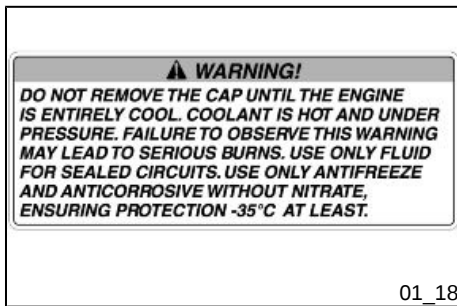


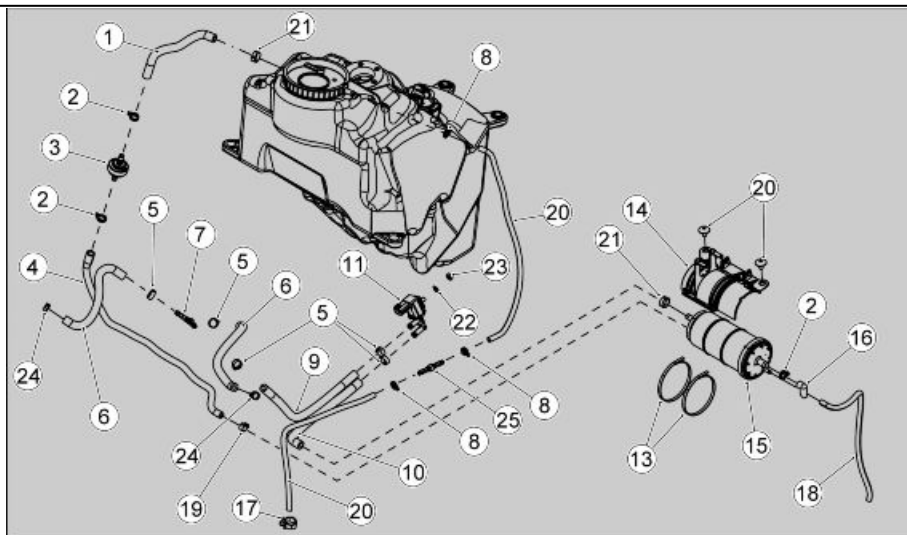
01_16

Label 15 (01_17)



01_17

**Label 16 (01_18)****Evaporative emissions control system (01_19)**



01_19

Key

1. Tank-valve pipe
2. Pipe clamp
3. Safety valve
4. Valve-canister pipe
5. Clamp 12.5x8
6. SAE 30 pipe, diam.12.7x6.35
7. 3-way fitting
8. Clamp D11,3
9. Solenoid valve-fitting pipe
10. Solenoid valve-canister pipe
11. Complete air solenoid valve
12. Special screw
13. 4.5X280 clamp

14. Support
15. Canister
16. Ventilation pipette
17. Clamp L. 22 mm
18. Pipe 4x8
19. Pipe clamp
20. Pipe 5.5x10
21. White snap-on clamp diam.13x6
22. Curved spring washer
23. M6 nut
24. Green click clamp Dia. 11x6.6x1
25. Joint

Manufacturer's Warranty Coverage

Class I motorcycles (3.05 - 10.31 cu in) (50 - 169 cc): for a period of use of five (5) years or 7.457 mi (12000 km) whichever is sooner.

Class II motorcycles (10.37 - 17.03 cu in) (170 - 279 cc): for a period of use of five (5) years or 11.185 mi (18000 km) whichever is sooner.

Class III motorcycles (17.09 cu in and higher) (280 cc) : for a period of use of five (5) years or 18.641 mi (30.000 km) whichever is sooner.

If an emissions-related component on your motorcycle is defective, it will be repaired or replaced by **Moto Guzzi**. This is your WARRANTY FOR DEFECTS of the emission control system.

Moto Guzzi - STATEMENT OF LIMITED WARRANTY ON THE EMISSION CONTROL SYSTEM (FOR US MARKET ONLY)

Piaggio & C. S.p.A., Via E. V. Parodi, 57, 23826 Mandello del Lario (LC) Italy (hereinafter referred to as "**Moto Guzzi**") guarantees that all new **Moto Guzzi** motorcycles from 1999 and later which include as standard the headlight, the taillight and the brake lights are approved for road use:

a) have been designed, constructed and equipped to comply with all applicable regulations at the time of initial public sale by the United States Environmental Protection Agency and the California Air Resources Board;

and

b) are free from defects in material and workmanship that could result in non-compliance with the regulations in force of the United States Environmental Protection Agency or the California Air Resources Board for a period of use, based on the engine displacement, of 3.728 mi (6.000 km), if the engine displacement is less than 3.05 cu in (50 cc); 7.457 mi (12.000 km), if the engine displacement is less than 10.37 cu in (170 cc); 11.185 mi (18.000 km), if the engine displacement is equal to or greater than 10.37 cu in (170 cc), but in any case less than 17.09 cu in (280 cc); or 18.641 mi (30.000 km), if the engine displacement is equal to or greater than 17.09 cu in (280 cc); or 5 (five) years from the date of the initial public sale, whichever is sooner.

Owner's Warranty Responsibilities

- As the owner, you are responsible for carrying out the scheduled maintenance indicated in your use and maintenance manual. **Moto Guzzi** recommends that you keep all receipts relating to the maintenance of your motorcycle even if **Moto Guzzi** cannot deny the warranty solely for lack of receipts or proof that the entire scheduled maintenance has been carried out.
- It is your responsibility to have your motorcycle checked by a **Moto Guzzi** dealer as soon as a problem occurs. Warranty repairs should be completed within a reasonable period of time, not exceeding 30 days.
- As owner of the motorcycle, you should be aware that **Moto Guzzi** may deny the warranty if your motorcycle or component is found to be defective as a result of violations, negligence, improper maintenance or unauthorised modifications.

If you have any questions regarding your warranty rights and responsibilities, please contact **Piaggio Group Americas, Inc.**, 257 Park Avenue South, 4th Floor New York, NY 10010, U.S.A., Telephone number: (212) 380 4400, or **California Air Resources Board** at P.O. Box 8001, 9528 Telstar Avenue, El Monte, CA 91734- 8001.

I - Coverage.

Defects under warranty must be repaired during normal business hours by an Official **Moto Guzzi** Dealer based in the United States of America in accordance with the Clean Air Act and applicable regulations of the United States Environmental Protection Agency and California Air Resources Board. All components replaced under this warranty will become the property of **Piaggio Group Americas, Inc.**

Only in the State of California, emission-related warranty parts are specifically defined by the state's Emission Warranty Parts List. The components under warranty are as follows: carburettor and internal components; intake bellow; fuel tank; fuel injection system; ignition advance mechanism; crankcase breather; air shut-off valves; fuel cap for vehicles with evaporative emissions control; oil filler cap; pressure control valve; vapour/fuel separator; canister; igniter; switch regulators; ignition coils; ignition cables; ignition points; capacitors and spark plugs that are defective before the first scheduled replacement; and pipes, clamps, fittings and tubing used directly on these components. Since emission related components vary from model to model, some models may not have all of these components and other models may have components with equivalent operation.

Only in the State of California, emergency repairs of the emission control system, as required by the California Administrative Code, may be carried out by third parties other than an Official **Moto Guzzi** Dealer. An emergency situation is considered a situation in which a **Moto Guzzi** Official Dealer is not available, a component is not available or cannot be found within 30 days, or the repair is not completed within 30 days. In case of emergency repairs, any spare part can be used. **Piaggio Group Americas, Inc.** will reimburse the owner's expenses, including the diagnosis, without exceeding the **Moto Guzzi** suggested retail price for all parts under warranty replaced and for labour costs, based on the times recommended by **Moto Guzzi** for repairs under warranty and at the hourly rate specified for the geographical area. The owner may be required to keep receipts and defective parts for reimbursement.

II - Limitations

The Emission Control System Warranty does not cover the following:

- a) Repairs or replacements necessary as a result of:

- (1) accidents,
 - (2) improper use,
 - (3) improperly performed repairs or replacements with incorrect installation,
 - (4) use of spare parts or accessories that do not comply with Moto Guzzi specifications which could adversely affect the performance,
 - (5) use in competition, Track Days and other similar events.
- b)** Checks, replacement of components or other services and adjustments necessary for scheduled maintenance.
- c)** Any motorcycle on which the odometer mileage has been changed in such a way that the actual mileage can no longer be readily established.

III – Limited liability

a) **Moto Guzzi's** liability under the emissions control system warranty is limited exclusively to the removal of defects in material or workmanship through a **Moto Guzzi** Official Dealer at its company headquarters during normal working hours. This warranty does not include inconveniences or inability to use the motorcycle or transportation of the motorcycle to/from the **Moto Guzzi** dealer.

Piaggio Group Americas, Inc. WILL BE DEEMED FREE FROM ANY OTHER EXPENSES, LOSS OR DAMAGES, DIRECT, INDIRECT, CASUAL OR PUNITIVE, ARISING FROM THE SALE OR USE OR IMPOSSIBILITY OF USE OF THE **Moto Guzzi** MOTORCYCLE FOR ANY PURPOSE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION FOR INCIDENTAL OR INDIRECT DAMAGES AND SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

b) EMISSIONS EXPRESSED BY **Moto Guzzi and/or Piaggio Group Americas, Inc.** EXCEPT AS SPECIFICALLY DEFINED IN THIS DOCUMENT. ANY WARRANTY REGARDING THE EMISSION CONTROL SYSTEM IMPLIED BY LAW, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR A PARTICULAR USE, IS LIMITED TO THE TERMS OF THE EMISSION CONTROL SYSTEM WARRANTY SET OUT IN THIS WARRANTY. THESE WARRANTY STATEMENTS EXCLUDE AND REPLACE ANY OTHER RIGHTS OF COMPENSATION. SOME

STATES DO NOT ALLOW LIMITATIONS ON THE DURATION OF THE IMPLIED WARRANTY AND SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

c) No dealer is authorised to modify the warranty on the **Moto Guzzi** emission control system.

IV - Legal rights

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND ANY OTHER RIGHTS WHICH MAY VARY IN DIFFERENT STATES.

V - This warranty is in addition to the manufacturer limited vehicle warranty

THIS WARRANTY INTEGRATES THE MOTORCYCLE LIMITED WARRANTY **Moto Guzzi**.

VI - Additional information

Any spare parts with equivalent performance and durability can be used to carry out any maintenance repairs. However, Moto Guzzi assumes no responsibility for these parts. The owner is responsible for carrying out all scheduled maintenance. This maintenance can be carried out by an authorized **Moto Guzzi** dealer or by the owner himself. The warranty period start at the first date of delivery to a retail client.

Piaggio & C. S.p.A.

via G. Galilei, 1

30033 Noale (VE) Italy

Piaggio Group Americas, Inc.

257 Park Avenue South, 4th Floor

New York, NY 10010 U.S.A.

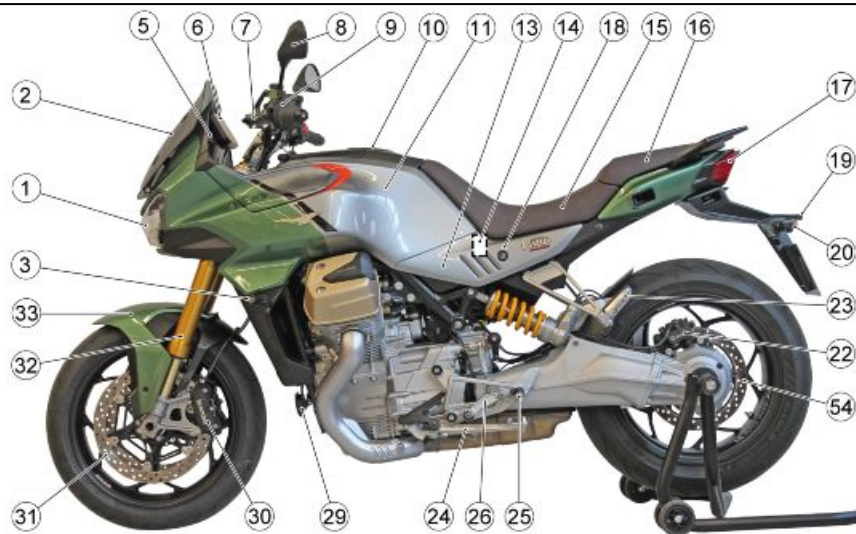
Telephone number: (212) 380 4400

V100 Mandello - V100 Mandello S

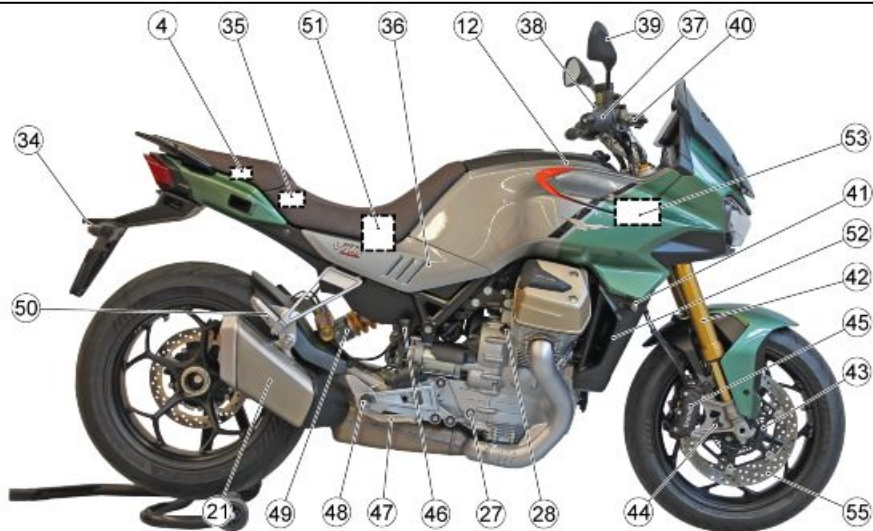


Chap. 02
Vehicle

Arrangement of the Main Components (02_01, 02_02)



02_01



02_02

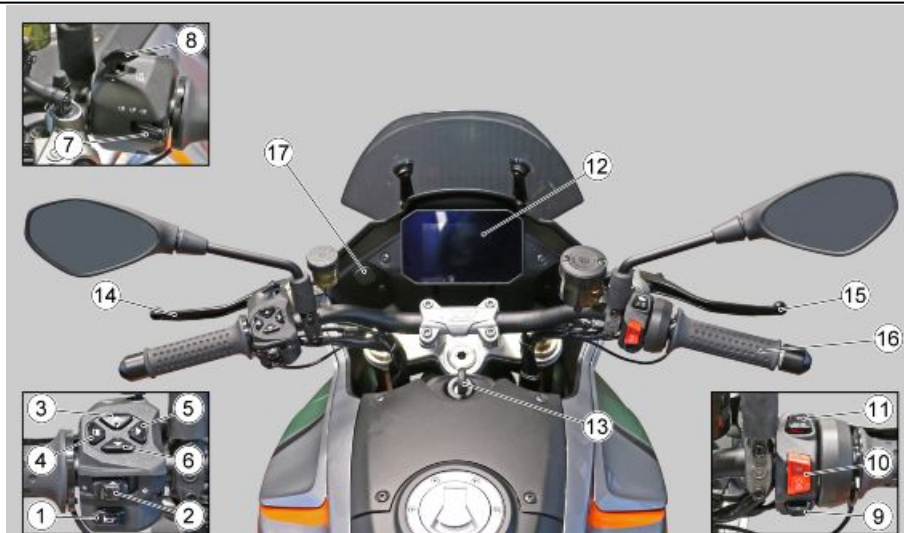
Key:

1. Headlamp
2. Adjustable windshield
3. Front left turn indicator
4. USB port
5. USB socket (if applicable)
6. Instrument panel
7. Clutch lever
8. Left rear-view mirror
9. Left light switch
10. Fuel tank cap
11. Fuel tank
12. Air filter
13. Left side fairing

14. Main fuses
15. Rider saddle
16. Passenger saddle
17. Taillight
18. Seat lock
19. Licence plate lamp
20. Rear left turn indicator
21. Silencer
22. Rear brake calliper
23. Passenger left footrest
24. Side stand
25. Left rider footrest
26. Gear shift lever
27. Engine oil level inspection port
28. Engine oil load cap
29. Horn
30. Front left brake calliper
31. Left hand front brake disc
32. Left fork stem
33. Front mudguard
34. Rear right turn indicator
35. Secondary fuses
36. Right side fairing
37. Throttle control
38. Right light switch
39. Right rear-view mirror
40. Front brake lever
41. Front right turn indicator
42. Right fork stem
43. Front tone wheel
44. Front tone wheel sensor
45. Front right brake calliper
46. Rear brake oil tank
47. Rear brake lever
48. Right rider footrest
49. Rear shock absorber (adjustable)
50. Right passenger footrest
51. Battery

- 52. Radiator
- 53. Radiator expansion tank
- 54. Rear brake disc
- 55. Right hand front brake disc

Dashboard (02_03)



02_03

Key:

- 1. Audible warning device;

2. Turn indicator control;
3. Up button (MODE UP);
4. Set button (MODE SET);
5. Right button (MODE RIGHT);
6. Down button (MODE DOWN);
7. Low beam / high beam / flash high beam switch;
8. Cruise Control selector;
9. Riding mode button;
10. Engine start / stop switch;
11. Daytime running lights (DRL) / night lights / additional headlights switch (if applicable);
12. Instrument panel and indicators;
13. Ignition switch / steering lock;
14. Clutch lever;
15. Front brake lever;
16. Throttle grip;
17. USB socket (if applicable).



Digital instrument panel (02_04, 02_05)

Key:

1. Multifunctional digital display box.
2. Indicator lights.



The dashboard has an immobilizer system which prevents start-up in case the system does not identify a key which has been stored before.

The vehicle is delivered to the customer with two pre-programmed keys. The dashboard accepts a maximum of four keys at the same time: contact an Official **Moto Guzzi** dealer to enable these keys or to disable a key that has been lost. Upon vehicle delivery, approximately ten seconds after the key is set to ON, the instrument cluster requests a personal five-digit code to be entered.

See the chapter "**Advanced functions**" for instructions on modifying the personal code

When the code is requested, the display will show a variable value box, from 0 to 9, using the MODE navigation buttons. Confirm the selection with a short press of the MODE SET button until the five digits are completed; once the entry is complete, end the operation by turning the ignition key to OFF.

It is important to remember the personal code because:

- the vehicle can be started if the immobilizer system is faulty
- the dashboard need not be replaced should the ignition switch be changed
- new keys can be programmed

NOTE

IF THE PERSONA CODE IS NOT MEMORISED AND THE VEHICLE IS USED, THE MESSAGE DISAPPEARS AFTER 10 SECONDS BUT REAPPEARS WITH EACH KEY ON.

NOTE

THE FACTORY SET CODE IS COMPOSED OF FIVE ZEROES.



Light Unit (02_06)

Key:

1. MI warning light, orange;
2. High beam indicator lamp, blue;
3. Cruise control indicator lamp, green;
4. ABS indicator light, orange;
5. Left turn indicator warning light, green;
6. Right turn indicator warning light, green;
7. MGCT warning light, orange;
8. DRL indicator lamp, green;
9. Low fuel indicator light, orange;
10. Neutral indicator light, green;
11. Immobilizer / over-revs indicator lamp, red.

Digital LCD Display (02_07, 02_08, 02_09, 02_10, 02_11, 02_12, 02_13, 02_14, 02_15, 02_16)

NOTE

THE INSTRUMENT CLUSTER IS EQUIPPED WITH A TWILIGHT SENSOR THANKS TO WHICH, BASED ON THE AMBIENT LIGHTING, CAN SWITCH FROM DAY TO NIGHT MODE.

IF THE "HEADLAMP MODE" FUNCTION (SEE PARAGRAPH "ADVANCED FUNCTIONS") IS SET TO THE "AUTO" STATUS, THE TWILIGHT SENSOR WILL SWITCH THE HEADLIGHT FROM D.R.L. TO LOW BEAM AND VICE-VERSA.

- Turning the ignition switch to 'KEY ON', the following illuminate on the dashboard for about two seconds:
 - A dynamic graphic presentation.
 - All indicator lights.



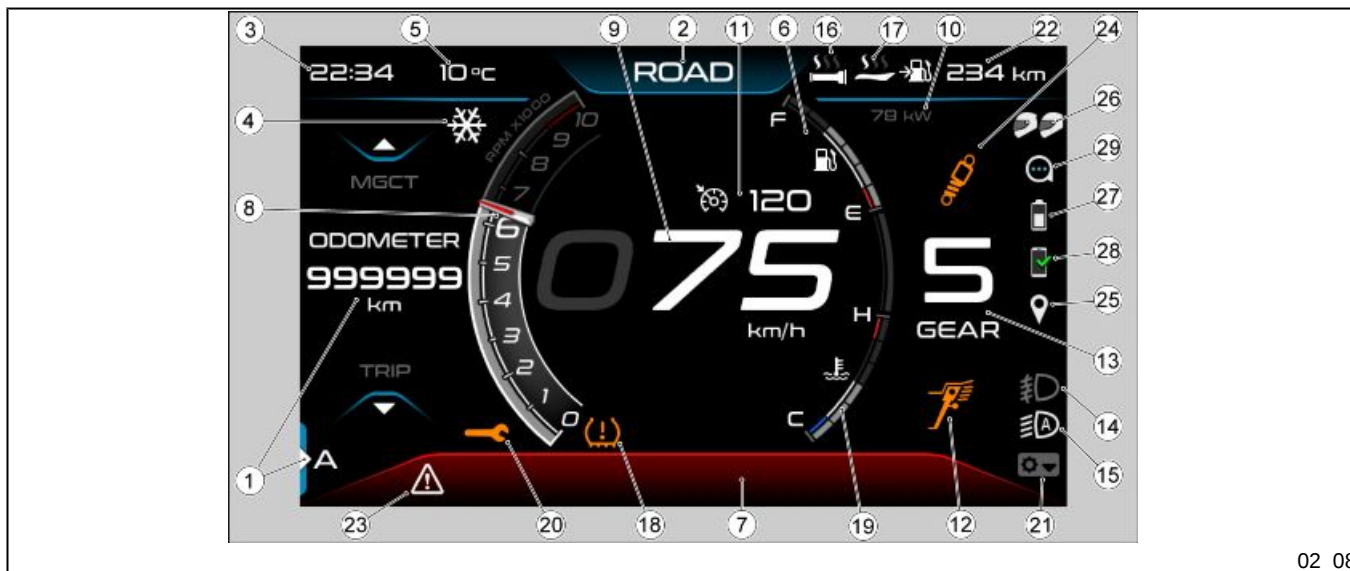
(where available)

If the GUZZI MIA ECU is present, pressing and holding the "MODE RIGHT" button accesses navigation mode.

Pressing and holding the button changes the digital display mode from ROAD to NAVI, and then to MENU.

Pressing and holding the MODE RIGHT button again scrolls through the "modes" available.

The following information is displayed in ROAD mode:



02_08

Key:

1) On-board computer log (TRIP LOG A / TRIP LOG B).

(Where the Guzzi Mia control unit is present: telephone, music, media player.

(Where the components are present): tyre pressure, heated handgrips, heated seat;

2) Riding mode active;

3) Clock (displayed in 24 or 12 hour mode, without the AM / PM indication);

4) Ice hazard icon (displayed at temperatures from 5°F (-15°C) to 37.4°F (+3°C)) / Battery warning indicator (voltage between poles too low) (both visible when alert conditions arise);

5) Room temperature (displayed in °F or in °C);

6) Fuel gauge;

7) Information pop-up area;

8) Engine speed (rpm x 1000);

9) Speed (speedometer) (displayed in mph or km/h);

10) Reduced map indication (where required);

11) Cruise control speed (when the system is active, indicates the set cruise speed);

12) Open side stand indicator;

13) Gear selected;

14) Automatic lights mode active;

15) Fog lights active (where foreseen);

16) Hand grip heating level indicator;

17) Seat heating level indicator;

18) Low tyre pressure alarm (displayed where applicable);

- 19) Water temperature measurement (displayed in °F or °C);
- 20) Service icon;
- 21) Downshift status (displayed where implemented);
- 22) Driving in reserve (only when the reserve indicator is on) (displayed in mi or km);
- 23) General warning icon;
- 24) Suspension failure icon (V100 Mandello S)

Where the Guzzi Mia control unit is present:

- 25) GPS/Navigator (where active);
- 26) Rider/passenger intercom;
- 27) Battery level indicator relative to connected smartphone;
- 28) Audio transmission with smartphone for calling, sending vocal commands and playing music;
- 29) Data link with smartphone;



MAINTENANCE MESSAGE

When the maintenance time thresholds are exceeded, the icon depicting a wrench will appear, indicating the need to carry out scheduled maintenance on the vehicle.

This message can be reset once the scheduled maintenance has been completed by an **authorised Moto Guzzi Dealer or service centre**.



ICE HAZARD WARNING

At external temperatures between 37 °F (3 °C) and 5 °F (-15 °C) , the ice hazard symbol appears on the display.



LOW BATTERY WARNING

The lighting of the battery symbol indicates a problem in the battery charging system.



OVERTEMPERATURE WARNING

When the coolant temperature is 239 °F (115 °C) or higher: the temperature icon turns red and flashes together with the coolant temperature gauge.

IMPORTANT

STOP THE VEHICLE AND WAIT FOR THE ENGINE TO COOL.



FUEL LEVEL

The tank fuel level gauge is represented on the display by a number of bars.

When only the first bar remains on, it will change colour to orange, as does the symbol on the digital display. At the same time, the dedicated indicator light on the instrument panel comes on.

NOTE

IF THE RESERVE FUEL WARNING LAMP FLASHES AT KEY-ON, THIS INDICATES THAT THE FUEL LEVEL SENSOR IS DISCONNECTED.

IF THE FUEL SENSORS DO NOT WORK CORRECTLY, THE BARS MAY NOT BE DISPLAYED CORRECTLY. THEREFORE CONTACT AN Official Moto Guzzi Dealer.

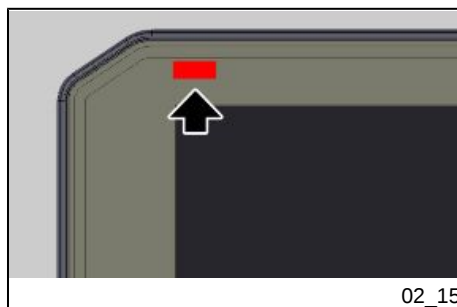
NOTE

THE INDICATED FUEL LEVEL MAY VARY AND NOT BE DISPLAYED ACCURATELY IF THE MOTORCYCLE IS INCLINED (E.G. WHEN THE MOTORCYCLE IS PLACED ON THE SIDE STAND, OR IF VEHICLE IS RIDDEN ON LONG STRETCHES OF UPHILL OR DOWNHILL ROAD).



FUEL RANGE

When the vehicle is in reserve, the display shows the remaining range that can be covered in reserve (displayed in mi or km).



02_15

IMMOBILIZER

With the key in the "KEY OFF" position, the immobilizer indicator light flashes to indicate the activation of the system. To reduce battery consumption the light stops flashing after about 48 hours.



02_16

RIDING MODE SETTING SCREEN

The riding mode setting screen can be accessed from the main screen of the display, by pressing and holding the "RIDING MODE" button on the right hand handlebar control set.

See the paragraph "MGCT system" for instructions on modifying parameters.

Press "RIDING MODE" or "MODE SET" briefly to exit the setting mode screen.

NOTE

The MGCS item is only present on V100 Mandello S.



02_17

Alarms (02_17, 02_18, 02_19, 02_20, 02_21, 02_22, 02_23, 02_24, 02_25, 02_26, 02_27)

In the event of a fault, the Pop-up area of the digital display will turn red and a different message will be displayed depending on the cause.

Take your vehicle to an Official **Moto Guzzi** Dealer as soon as possible.

SERVICE ALARM

If there is a fault on the instrument panel or from the ECU, the instrument panel signals the fault by displaying the message "ALARM SERVICE" along with the general alarm icon.

If there is an immobilizer failure at ignition, the dashboard requests you to enter a user code. If the code is entered correctly, the dashboard signals the failure by displaying the message "ALARM SERVICE" along with the general alarm icon.



URGENT SERVICE ALARM

The serious anomaly is signalled by the rapid flashing (two flashes per second) of the message "URGENT SERVICE" accompanied by the general alarm icon in the Pop-up area which will turn red. Take your vehicle to an **Official Moto Guzzi Dealer** as soon as possible. In these cases the ECU activates a safety procedure limiting vehicle performance in order to allow the rider to go to an Official **Moto Guzzi Dealer** at a reduced speed.

Depending on the type of failure, performance can be limited in three ways: a) by reducing the maximum torque produced; b) by keeping the engine at idle speed but slightly accelerated (during this operation, the throttle control is disabled); c) the engine rpm is steady at around 3000 rpm; Under these conditions the throttle control provides limited management of the torque.

NOTE

THE FOUR ARROWS FLASH FOR 30 SEC WHILE THE ERROR "URGENT SERVICE" IS ACTIVE ON THE DIGITAL DISPLAY TO WARN THE VEHICLES FOLLOWING OF A POSSIBLE DANGEROUS SITUATION, UNTIL THE TURN INDICATOR IS ACTIVATED TO ALLOW THE DRIVER TO PULL OVER .



Oil failure

In the event that an oil pressure anomaly is detected, the digital display will show the message "ALARM OIL PRESSURE" accompanied by the general alarm icon, all flashing in the Pop-up area which will turn red.



STOP THE VEHICLE AND CONTACT AN Approved Moto Guzzi dealer AS SOON AS POSSIBLE.



In the event that an oil pressure sensor anomaly is detected, the digital display will show the message "ALARM OIL SENSOR" accompanied by the fixed general alarm icon, in the Pop-up area which will turn red.

WARNING

TAKE YOUR VEHICLE TO AN Official Moto Guzzi Dealer AS SOON AS POSSIBLE.



MGCT disabled alarm

The MGCT system disabling alarm is activated when there is a problem that can cause the system itself to be disabled.

WARNING

DRIVE CAREFULLY AND CONTACT AN Official Moto Guzzi Dealer AS SOON AS POSSIBLE.



Immobilizer alarms

For immobilizer alarms, refer the specific paragraph "Immobilizer system operation". The error code may vary.

If there is an alarm, the user code must be entered to start the vehicle.

IMPORTANT

THE DISPLAY WILL SHOW THE ALARM MESSAGE, ACCOMPANIED BY THE GENERAL WARNING LIGHT, IN THE POP-UP AREA WHICH WILL TURN RED.

WARNING

DRIVE CAREFULLY AND CONTACT AN Official Moto Guzzi Dealer AS SOON AS POSSIBLE.



Electronic control unit disconnected alarm

If a lack of connection of the E.C.U. is detected, the instrument panel will signal the anomaly by displaying the message "ALARM CAN ECU DISCONNECTED" accompanied by the general alarm warning light in the Pop-up area which will turn red.

NOTE

THE MESSAGE "ALARM CAN ECU DISCONNECTED" REMAINS ON THE DIGITAL DISPLAY AND THE HAZARD WARNING LIGHTS WILL CONTINUE TO FLASH (TO WARN OTHER ROAD USERS BEHIND THE VEHICLE OF POTENTIAL DANGER) UNTIL THE RIDER ACTIVATES THE RIGHT HAND TURN SIGNAL TO INDICATE THAT THEY ARE ABOUT TO PULL OVER AND STOP.



"CAN BUS OFF" electronic control unit disconnected alarm

If a lack of connection with the CAN line is detected, the display will show the alarm message "ALARM CAN BUS OFF" accompanied by the general warning icon the Pop-up area which will turn red.

WARNING

DRIVE CAREFULLY AND CONTACT AN Official Moto Guzzi Dealer AS SOON AS POSSIBLE.



Headlamp disconnected alarm "CAN HLU"

If a lack of connection between the instrument panel and the headlight is detected, the display will show the alarm message "ALARM CAN HLU" accompanied by the general warning icon the Pop-up area which will turn red.

NOTE

THE FRONT TURN INDICATORS ALSO FLASH WHILE THE ERROR "ALARM CAN HLU" IS ACTIVE ON THE DIGITAL DISPLAY.

WARNING

DRIVE CAREFULLY AND CONTACT AN Official Moto Guzzi Dealer AS SOON AS POSSIBLE.



02_26

Brakes stuck alarm

In the event that constant pressure is maintained on at least one of the brake levers, with the vehicle moving at a speed equal to or greater than 6 mph (10 Km/h):

the display will show the alarm message "WARNING BRAKE STUCK" accompanied by the general warning icon and the Pop-up area will turn orange.



02_27

Brakes stuck alarm

If the pressure is maintained for more than 60 seconds, with the vehicle moving at a speed equal to or greater than 6 mph (10 Km/h):

the display will show the alarm message "ALARM BRAKE STUCK" accompanied by the general warning icon and the Pop-up area will turn red.

IMPORTANT

IF THE ALARM MESSAGE DOES NOT DISAPPEAR WHEN RELEASING THE BRAKE LEVERS, STOP THE VEHICLE AND CONTACT AN Official Moto Guzzi Dealer FOR DIAGNOSIS AND TROUBLESHOOTING OF THE BRAKE SYSTEM.



02_28

Mapping Selection (02_28, 02_29, 02_30, 02_31)

The engine control unit has 4 different selectable "riding modes" for managing the electronic accelerator, displayed as follows in the upper left part of the digital display:

- **SPORT**
- **ROAD**
- **TOUR**
- **RAIN**

The **SPORT** mode is designed for a more use of the vehicle. The throttle response is quick, the engine brake and traction control are minimally invasive.

The **ROAD** mode is thought for the use of the vehicle in the city. The throttle response is less aggressive and the engine brake is more invasive than in **SPORT** mode, and traction control is set at the intermediate level.

The **TOUR** mode is designed for a touristic use of the vehicle. Engine response is less aggressive, engine braking and traction control are set at the intermediate level.

The **RAIN** mode is designed for use on surfaces with poor grip. The engine response is smooth, the engine brake is effective and the traction control is set to the maximum level.

All riding modes listed above can be configured by the user, as shown in the 'ADVANCED FUNCTIONS' section.



02_29

To cycle through the different riding modes, press the button shown in the figure on the right hand handlebar control set briefly.

IMPORTANT

DIFFERENT RIDING MODES MAY ALSO BE SELECTED ON THE FLY WHILE THE VEHICLE IS MOVING, PROVIDED THAT THE THROTTLE GRIP IS RELEASED.

RIDING MODES MAY ALSO BE PRESELECTED WHILE THE THROTTLE IS OPEN. IN THIS CASE, THE NEW MODE IS ONLY EFFECTIVELY IMPLEMENTED WHEN THE THROTTLE IS CLOSED AGAIN. IN THIS CASE THE ICON AND THE NAME OF THE RIDING MODE WILL FLASH.



02_30

IMPORTANT

IF THE THROTTLE IS OPENED WHILE THE NEW RIDING MODE IS SHOWN IN FLASHING MODE ON THE DISPLAY (I.E. MODE IS PRESELECTED ONLY AND PENDING IMPLEMENTATION BY THE ECU), THE PRESELECTED NEW RIDING MODE WILL NOT BE EFFECTIVELY IMPLEMENTED UNTIL THE THROTTLE GRIP IS RELEASED.

IF A NEW RIDING MODE IS SELECTED WHILE THE THROTTLE IS OPEN, THE NEW RIDING MODE REQUESTED WILL BE SHOWN IN FLASHING MODE UNTIL THE THROTTLE GRIP IS RELEASED.

IMPORTANT

IF THE REQUESTED RIDING MODE CONTINUES TO BE DISPLAYED IN FLASHING MODE, THIS MEANS THAT NOT ALL THE CONDITIONS NECESSARY FOR IMPLEMENTATION OF A NEW MODE ARE MET, E.G.: THROTTLE OPEN, CLUTCH LEVER IN USE ETC.



02_31

To gain access to the riding mode settings screen, press and hold the relative button on the right hand lights switch.

Using the "MODE UP" or "MODE DOWN" buttons, the desired parameter may be selected and by briefly pressing the "MODE RIGHT" button the intervention value can be increased.

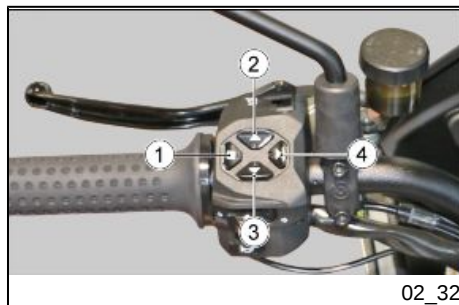
Once the maximum level is reached, the setting will restart from the minimum intervention value.

After setting the parameters as desired, press "MODE SET" briefly to exit the screen.

Press and hold "MODE SET" to restore the factory settings.

NOTE

The MGCS item is only present on V100 Mandello S.



02_32

Control Buttons (02_32, 02_33, 02_34, 02_35, 02_36, 02_37, 02_38, 02_39, 02_40, 02_41, 02_42, 02_43, 02_44, 02_45, 02_46, 02_47, 02_48, 02_49, 02_50, 02_51, 02_52, 02_53, 02_54, 02_55)

The control buttons on the left hand light switch may be used to navigate within the different screens of the system, view trip A / B log information and, if the vehicle is equipped with the GMP unit (Guzzi Multimedia Platform), also access phone information and music and media content.

The navigation buttons are as follows:

1. **MODE SET** (select / confirm / press and hold to reset)
2. **MODE UP** (up)
3. **MODE DOWN** (down)
4. **MODE SET** (right)



02_33

Using the "cruise" selector on the left-hand light switch is it possible to:

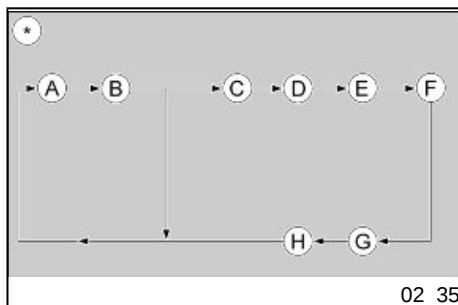
- Increase or decrease the cruise control set speed;
- Within the MGCT function, change the traction control intervention level only if the **CRUISE CONTROL IS NOT ACTIVE**.



02_34

A number of different symbols (such as the examples (1) and (2) shown in the figure) may be displayed in the popup space.

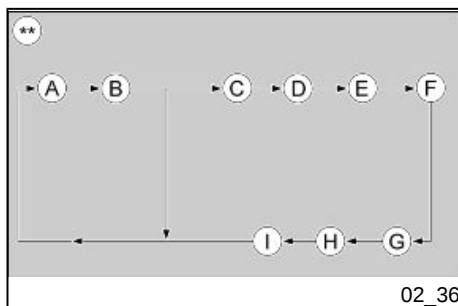
- Where shown as a solid shape (1), the symbol indicates that it is necessary to press and hold the relative control for the function described.
- Where shown as an outline only (2), the symbol indicates that it is necessary to press the relative control briefly and release for the function described.



02_35

When in ROAD mode (*), pressing "MODE RIGHT" briefly repeatedly cycles through the following screens:

- A) Trip log A.
- B) Trip log B.
- C) Heated hand grip info (where provided)
- D) Heated saddle information (where provided)
- E) Tyre pressure info (where provided)
- F) Phone information. (if applicable)
- G) Music information. (if applicable)
- H) Multimedia information. (if applicable)



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When in NAVI mode (**), pressing "MODE RIGHT" briefly repeatedly cycles through the following screens:

- A) Trip log A.
- B) Trip log B.
- C) Heated hand grip info (where provided)
- D) Heated saddle information (where provided)
- E) Tyre pressure info (where provided)
- F) Phone information. (if applicable)
- G) Music information. (if applicable)
- H) Multimedia information. (if applicable)
- I) Navigation information. (if applicable)



A) - B) Trip log (displayed in ROAD / NAVI modes)

There are two trip logs available, log A and log B.

Press "MODE UP" or MODE DOWN" button briefly to cycle through the following information on the digital display, in the indicated order:

- ODOMETER.
- TRIP ODOMETER.
- TRIP TIME.
- MAXIMUM SPEED.
- AVERAGE SPEED.
- AVERAGE FUEL CONSUMPTION.
- INSTANTANEOUS FUEL CONSUMPTION.
- DRIVING IN RESERVE (only when the reserve indicator is on).
- MGCT (Moto Guzzi Traction Control)

From any of the following view modes: TRIP ODOMETER, TRIP TIME, MAXIMUM SPEED, AVERAGE SPEED or AVERAGE FUEL CONSUMPTION, press and hold MODE SET to reset all the values logged in the currently active TRIP LOG.



C) Heated grips information (displayed in ROAD / NAVI modes) (where provided)

This menu provides information about the heated grips including the activation status and the heating intensity.

For further details, see paragraph "Heated grips control".



D) Heated saddle information (displayed in ROAD / NAVI modes only) (where applicable)

This menu provides information about the heated saddle, including the activation status and the heating intensity.

For further details, see paragraph "Heated saddle control".



E) Tyre pressure information (displayed in ROAD and NAVI modes) (where provided)

Select this screen to view information relative to tyre pressure and temperature and possible alarms.



F) Phone information (where provided)

Information relative to phone calls is displayed in this menu, such as:

- Call in progress.
- Incoming call.
- Outgoing call.
- Call ended.
- Voice control active.
- Call log.

See the chapter "ADVANCED FUNCTIONS" for more details.



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G) Music information (displayed in ROAD / NAVI modes) (where provided)

Information relative to audio playback is displayed in this menu, such as:

- Track playing.
- Playback paused.

See the chapter "ADVANCED FUNCTIONS" for more details.



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H) Media information (where provided)

The vehicle is equipped with the "**MOTO GUZZI MIA**" accessory, which communicates with the smartphone via Bluetooth. Using the specific "**MOTO GUZZI**" application installed on the smartphone, it is possible to exchange data with the vehicle and manage multimedia contents. Once a connection is established correctly between the control unit and smartphone, the following functions can be directly managed by the digital display of the vehicle:

- call management;
- manage audio playback;
- GPS navigation.



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The "**MULTIMEDIA**" sub-menu of the main "**MENU**" contains 3 functions:

- Devices status (list of paired devices)
- Reset pairing (reset of all paired devices)
- Devices pairing (allows the pairing of new devices)

Having activated the Bluetooth function on the device to be paired, by briefly pressing the MODE RIGHT button, selecting the "Devices pairing" command from the vehicle menu, the devices available for pairing will be scanned.

Once the device to be paired has been identified, after selecting it, by briefly pressing the MODE RIGHT button, pairing will be carried out and the screen will return to the



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ROAD mode display with a pop-up confirming "PAIRING COMPLETED" or "PAIRING ABORTED" if the pairing does not take place correctly



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The smartphone icon on the display indicates active communication. **When requested, allows phone book and notifications sharing. These enabling operations are necessary to display the caller's name on the display.**

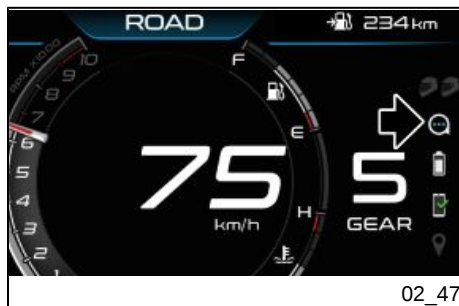
NOTE

UPON THE FIRST PAIRING BETWEEN THE DISPLAY AND SMARTPHONE, MORE TIME MAY BE REQUIRED FOR THE SYNCHRONIZATION OF THE PHONE BOOK.

THE CONNECTION BETWEEN THE SMARTPHONE AND VEHICLE WILL BE SIGNALLLED BY THE LIGHTING OF THE SMARTPHONE ICON ON THE DISPLAY.

IMPORTANT

TO PAIR THE DEVICES IT IS NECESSARY TO ACTIVATE THE PAIRING OF THE DEVICES AND THEN LAUNCH THE OPERATION FROM THE INSTRUMENT PANEL.



CONNECTION BETWEEN THE APPLICATION AND THE DIGITAL DISPLAY

Search for the **"Moto Guzzi"** application in Play Store or App Store and install it. Register your account by following the instructions. Select **"allow"** for the position and notifications management requests.

PAIRING A BLUETOOTH HEADSET FROM THE APP

Multimedia functions may be accessed using the MODE buttons if a bluetooth headset is paired with the digital display using the **"Moto Guzzi"** app. (This can also be performed from the instrument panel without using the application). After pairing it will be possible to answer or reject calls, activate voice commands and control the music on the smartphone.



Activate the **"pairing"** mode of the bluetooth headset to be paired (refer to the instructions of the device itself). Press the Bluetooth icon on the main screen of the **"Moto Guzzi"** application and perform a new search for devices until the headset is displayed. Select the bluetooth headset, check the **"Handsfree/driver headset"** option and press **"Pair"**. Successful pairing is indicated by the helmet icon displayed on the digital display. If the pairing is not successful, perform a new search.

Repeat the operation to connect a second device also. If this pairing procedure is successful, the 2nd helmet icon will be highlighted in black on the digital display.



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No multimedia function can be managed from the handlebar of the vehicle if there is no bluetooth headset, or if the headset is directly connected to the smartphone. **The Bluetooth headset can be paired with the vehicle only via the "Moto Guzzi" application and it must be connected to the vehicle in order to correctly use the multimedia functions of the system. For this reason, the headsets that automatically connects to the smartphone are not compatible (Ex: Apple Airpods).**

If pairing between Smartphone and Vehicle is not successful, proceed as follows:

- restart the smartphone;
- turn the ignition key to "**OFF**" and then to **ON**"; wait for the animation on the display to end.

If the smartphone icon on the display is not illuminated after approximately 1 minute, proceed as follows;

- open "**Moto Guzzi**" and select "**Connect**";
- select your vehicle from the list of suggestions and follow the instructions on the device;
- once the Application is connected, select the Bluetooth icon that appears on the main screen;
- open the Bluetooth devices menu;
- select "**Configure**" and delete all paired devices, leaving the current device till last, or perform the operation from the vehicle **MENU**;
- make sure that the application icon on the display is off;
- turn the ignition key to "**OFF**" and then to **ON**", then wait until the animation on the screen ends;
- the display must show the pop up "**No connected device**";
- repeat the pairing procedure from the start.

NOTE

PLEASE NOTE THAT TO CONNECT THE APP TO THE VEHICLE AGAIN, THE FOLLOWING WILL BE NECESSARY:

- ON iOS, DELETE THE PREVIOUSLY INSTALLED APP AND REINSTALL IT.
- ON ANDROID, SIMPLY DELETE THE APPLICATION DATA FROM THE APP MANAGEMENT MENU (THIS WILL RETURN THE APPLICATION TO THE INITIAL CONDITION AND THE LOGIN AND FIRST CONNECTION TO THE VEHICLE MUST BE PERFORMED AGAIN).
- IN CASE OF CONNECTION TO A NEW VEHICLE, IT IS NECESSARY TO REMOVE THE PREVIOUS BT-ROUTER FROM THE ASSOCIATED DEVICES.

NOTE

IT IS RECOMMENDED TO PAIR A MAXIMUM OF 2 SMARTPHONES AND 2 HEADSETS TO THE SAME VEHICLE, TO OPTIMIZE THE OPERATION OF THE SYSTEM.

IN CASE OF PAIRING THE SECOND SMARTPHONE, NOTE THAT THE SECOND ONE WILL REQUIRE A LONGER TIME (MORE THAN 30 SECONDS) TO CONNECT TO THE "BT-ROUTER". ONCE THE SMARTPHONE IS CONNECTED TO THE "BT-ROUTER", THE OPERATING SYSTEM WILL REQUEST ACCESS TO THE PHONE BOOK AND TO THE NOTIFICATIONS; ACCEPT TO DISPLAY THE NAMES OF THE CALLERS ON THE DISPLAY.

Required operation for iOS 10.0 versions or higher

If the "BT-ROUTER" device does not automatically request permission to share notifications, the following procedure is necessary:

- Enter the menu: "Settings" > "Bluetooth" > "Phone devices";
- select "BT-ROUTER", select "Info", enable the options manually.

INTERCOM AND VOCAL COMMANDS MANAGEMENT

The **"Moto Guzzi"** system manages the connection between the intercom and smart-phone upon activation by the user.



FOR SAFETY REASONS, IT IS RECOMMENDED TO CARRY OUT THE ACTIVATION / DEACTIVATION PROCEDURES WITH THE VEHICLE AT A STANDSTILL.

To activate the "INTERCOM" function, press and hold the MODE SET button from the "Media information" screen.

A pop-up with the message "INTERCOM ON" will be shown on the digital display.



The audio volume may now be controlled by pressing and holding MODE UP or MODE DOWN.





Pressing the MODE SET button briefly again deactivates the connection. The state "INTERCOM OFF" is now shown on the digital display.



To activate the "VOICE" function, which allows the user to access and use functions of their smartphone with voice commands from the headset (e.g. via Siri or Google Assistant), select the function with the MODE UP or MODE DOWN buttons and then press MODE SET briefly.



THE "VOICE" FUNCTION CANNOT BE ACTIVATED IF THE "INTERCOM" FUNCTION IS ALREADY ACTIVATED.

I) Navigation information (displayed in NAVI mode only) (where applicable)

Select this screen to view the destination for the navigation system entered via the smartphone.

" Guzzi MIA" SYSTEM MESSAGES

The "Guzzi MIA" system communicates with the user through messages that can be viewed on the graphic panel of the digital display. Depending on the message type, the graphic panel shows the icon, colours and the specific message.

The following information is displayed:

- Information messages related to the infotainment system.



CALL MANAGEMENT

To use phone features, view caller notifications and identifiers, it is necessary to:

- pair the smartphone with the **"Guzzi MIA"** system via Bluetooth, as previously described;
- install the **"Moto Guzzi"** app on your smartphone and access it (can be performed also from the instrument panel, without using the application);
- pair a bluetooth headset with the **"Guzzi MIA"** system using the **"Moto Guzzi"** app (or from the dashboard instrument panel, without using the application);
- allow sharing of the phonebook and notifications when the smartphone is paired with the **"Guzzi MIA"** system.

NOTE

WHEN A SMARTPHONE CONNECTS WITH THE «MOTO GUZZI MIA» SYSTEM (BT-ROUTER), AUDIO IS AUTOMATICALLY ROUTED TO THE MOTO GUZZI MIA SYSTEM.

IF THERE IS NO HEADSET CONNECTED TO THE "MOTO GUZZI MIA" SYSTEM, THE AUDIO FUNCTION OR MUSIC PLAYBACK CANNOT BE MANAGED, THEREFORE THE SMARTPHONE AUDIO MUST BE MANUALLY ROUTED TO THE DESIRED DEVICE (E.G. SPEAKERS/TELEPHONE MICROPHONE).

The following information is shown in the relative area on the digital display:

- call in progress;
- call ended;
- voice control active;
- incoming call;
- outgoing call;
- call log.

Press and hold MODE SET to enable voice commands.

Press MODE DOWN or MODE UP briefly to scroll through the log of all calls (missed calls, calls made, outgoing calls made with no reply).

Select the required log entry and then press and hold MODE SET to call the relative contact.

**MODE SELECTOR FUNCTIONS FOR CALL
MANAGEMENT**

Accept incoming call	PRESS MODE SET BRIEFLY
End an active call	PRESS AND HOLD MODE SET
Reject incoming call	PRESS AND HOLD MODE SET
Cancel outgoing call	PRESS AND HOLD MODE SET
Activate volume control (with call in progress)	PRESS AND HOLD MODE UP OR MODE DOWN
Increase volume (with call in progress)	PRESS MODE UP BRIEFLY
Lower volume (with call in progress)	PRESS MODE DOWN BRIEFLY

MANAGING A SECOND CALL

If the smartphone paired with the "Guzzi MIA" system is capable of receiving a second incoming call, a number of functions for managing a second call are available.

A popup appears on the digital display showing the identification details of the current and of the new incoming call are displayed in alternation (at intervals of approximately 1 second).

FUNCTIONS OF MODE SELECTOR FOR MANAGING SECOND CALL

Accept incoming call and put current call on hold	PRESS MODE SET BRIEFLY
Reject incoming call and continue current call	PRESS AND HOLD MODE SET
Switch between call 1 and call 2	PRESS MODE SET BRIEFLY



MUSIC PLAYBACK MANAGEMENT

To use the functions of the music player, the following must be performed:

- pair the smartphone with the "**Guzzi MIA**" system via Bluetooth, as previously described;
- install the "**Moto Guzzi**" app on your smartphone and access it (can be performed also from the instrument panel, without using the application);
- pair a bluetooth headset with the "**Guzzi MIA**" system using the "**Moto Guzzi**" app (or from the dashboard instrument panel, without using the application).

The corresponding three icons are shown on the digital display.

NOTE

WHEN A SMARTPHONE CONNECTS WITH THE «MOTO GUZZI MIA» SYSTEM (BT-ROUTER), AUDIO IS AUTOMATICALLY ROUTED TO THE MOTO GUZZI MIA SYSTEM.

IF THERE IS NO HEADSET CONNECTED TO THE "MOTO GUZZI MIA" SYSTEM, THE AUDIO FUNCTION OR MUSIC PLAYBACK CANNOT BE MANAGED, THEREFORE THE SMARTPHONE AUDIO MUST BE MANUALLY ROUTED TO THE DESIRED DEVICE (E.G. SPEAKERS/TELEPHONE MICROPHONE).

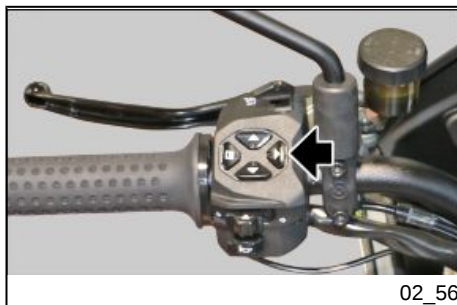
The following information appears on the digital display:

- track playing;
- playback paused;
- playback interrupted.

Use the MODE buttons to manage audio playback as shown in the table:

**MODE SELECTOR FUNCTIONS FOR MUSIC
MANAGEMENT**

Play track	PRESS MODE SET BRIEFLY
Activate volume control (with call in progress)	PRESS AND HOLD MODE UP OR MODE DOWN
Increase volume (with call in progress)	PRESS MODE UP BRIEFLY
Lower volume (with call in progress)	PRESS MODE DOWN BRIEFLY
Next music track	PRESS MODE UP BRIEFLY
Previous audio track	PRESS MODE DOWN BRIEFLY
Activate Siri	PRESS AND HOLD MODE SET

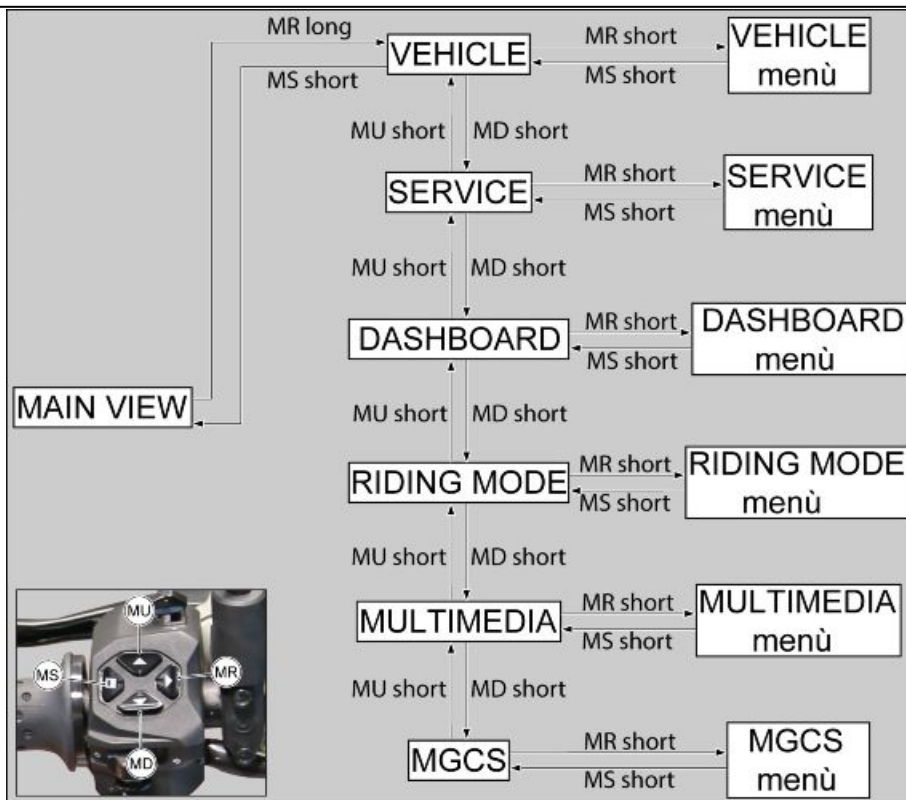


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Advanced Functions (02_56, 02_57, 02_58, 02_59, 02_60, 02_61, 02_62, 02_63, 02_64, 02_65, 02_66, 02_67, 02_68, 02_69, 02_70, 02_71, 02_72, 02_73, 02_74, 02_75, 02_76, 02_77, 02_78, 02_79, 02_80, 02_81, 02_82, 02_83, 02_84, 02_85, 02_86, 02_87, 02_88, 02_89, 02_90, 02_91, 02_92, 02_93, 02_94, 02_95, 02_96, 02_97)

With a long press of the MODE RIGHT button, from the ROAD screen, the display will pass to the NAVI screen (if the Guzzi MIA ECU is present) and then to the MENU screen.

The flow diagram below shows the structure of the menu; the submenus of each function are explained in the relevant paragraphs in this section.





The menu is composed of the following entries:

- 1) Vehicle
- 2) Service
- 3) Instrument cluster
- 4) Riding mode
- 5) Multimedia - **where required**
- 6) MGCS (Moto Guzzi Suspension Control) - **where required**



1) Vehicle

The "Vehicle" menu contains the following options:

- 1.1) Headlamp mode - **where required**
- 1.2) Shift light
- 1.3) MGQS down - where required
- 1.4) Emergency brake (Brake light)
- 1.5) Calibration
- 1.6) LCDAS (Rear Radar) - (**if applicable**)

The functions available in the "Vehicle" menu are described in the following paragraphs.

Press MODE SET briefly to go back to the main MENU.



1.1) Headlamp mode - where required

This function is used to set the operating mode of the lights.

The use mode can be selected by shortly pressing the MODE RIGHT button. These modes will be displayed cyclically every time you press the button.

Auto = Automatic

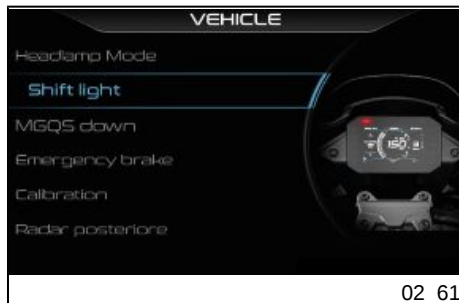
Manual = Manual

Emergency = Emergency; (emergency mode must only be used in the event of a malfunction of the headlamp; and enables usage of the low beam headlights and DRL lights only)

Press MODE SET briefly to go back to the main MENU.

NOTE

THE RELATIVE ICON IS SHOWN ON THE DIGITAL DISPLAY WHEN "AUTO" MODE IS ACTIVE.



1.2) Shift light

This function is used to set the rotation threshold; if this is exceeded, the engine rpm bar will flash and the immobilizer indicator light will switch on.

The threshold can be increased by shortly pressing the MODE RIGHT button.

Once the maximum rotation number is reached, the threshold starts again from 4000 rpm.

Press MODE SET briefly to exit edit mode.



1.3) MGQS down - where required

This function may be used to enable or disable the automatic matching system allowing downshifts without using the clutch.

The activation status can be changed by briefly pressing the button. The function will be cyclically changed by further pressing the MODE RIGHT button.

Press MODE SET briefly to go back to the main MENU.

MGQS ICON KEY:

- White icon = MGQS active
- Grey icon = MGQS disabled by user
- Orange icon = MGQS disabled by system
- Red icon = MGQS system malfunction



1.4) Emergency brake (Brake light)

When enabled, this function automatically activates the hazard warning lights in the event of hard and/or sudden braking. Activation of the hazard warning lights is not dependent on whether the ABS system is triggered.

If it is not active, a brief press on the MODE RIGHT button will activate the function and a further press will deactivate it again.

Press MODE SET briefly to go back to the main MENU.



1.5) Calibration

When the Calibration function is selected (with the vehicle stationary), having activated it by pressing the MODE RIGHT button briefly, a screen appears in the Pop-up area with the following description:

"Calibration - Speed not correct"



To calibrate the MGCT system (Moto Guzzi Traction Control) ride along a flat straight road in second gear at a speed of 24.85 ± 1.24 mph (40 ± 2 km/h) for approximately 10 seconds, until the digital display shows a message "Calibration running Hold speed".



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If calibration is completed successfully, the message "Calibration done - Key OFF (60s)" is displayed.

NOTE

WHEN THE TEXT "Calibration done - Key OFF (60s)" APPEARS ON THE DISPLAY, STOP THE VEHICLE AND TURN THE IGNITION TO KEY-OFF FOR AT LEAST 60 SECONDS TO COMPLETE CALIBRATION.

THIS ALLOWS THE CALIBRATION TO BE STORED IN THE MEMORY.

NOTE

THE CALIBRATION OPERATION IS USED TO OPTIMISE THE MGCT FUNCTION IN CASE OF A CHANGE IN TYRE TYPE.

IF TYRES OTHER THAN THOSE INDICATED IN THIS USE AND MAINTENANCE BOOKLET ARE USED, TO OBTAIN THE SAME PERFORMANCE FROM THE MGCT SYSTEM THE SETTING LEVELS OF THE SYSTEM ITSELF MAY NEED TO BE MODIFIED.

NOTE

TURN THE IGNITION SWITCH OFF TO ABORT THE CALIBRATION PROCEDURE.

DURING CALIBRATION, ATC IS AUTOMATICALLY DEACTIVATED (IF PREVIOUSLY ACTIVATED).



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1.6) LCDAS (Rear Radar) - (where required)

This menu allows you to activate or deactivate the radar by setting it to "ON" or "OFF". Press MODE SET briefly to go back to the "Dashboard" menu.



This function signals the presence of obstacles approaching from the rear of the vehicle, both right and left, by means of light signals on the display and on the relative rear-view mirror.

2) Service

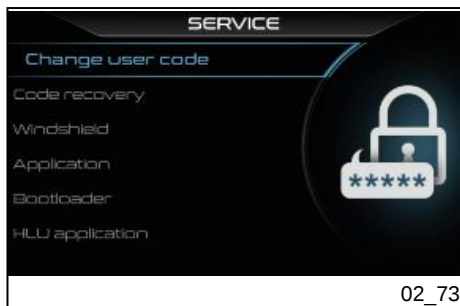
The "Service" menu contains the following options:

- 2.1) Change user code
- 2.2) Code recovery
- 2.3 Windshield
- 2.4) Application (Firmware version)
- 2.5) Boot loader (Firmware version)

2.6) HLU application (Firmware version)

The functions available in the "Service" menu are described in the following paragraphs.

Press MODE SET briefly to go back to the main MENU.

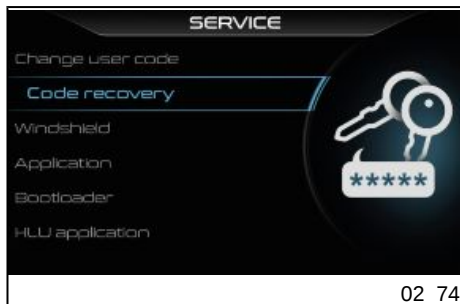


2.1) Change user code

This function may be used to modify the existing code (you must be in possession of the code itself in order to do this). The user code enables engine start even in the event of an immobiliser system fault. On a new vehicle, the user code is set by default as five zeros (00000) and the message "INSERT YOUR PERSONAL CODE" appears on the display for ten seconds when the ignition is switched on.

This function allows you to change the code itself and remove this message.

The leftmost value of the display will show a value from 0 to 9 (which can be changed by pressing the MODE UP or MODE DOWN keys). Press MODE SET briefly to confirm the selection. Repeat the operation for all the digits. Once the code is confirmed, the new code is shown steadily on the display to let the user verify that the code has been entered correctly. Turn the ignition off and then on again to unlock the instrument cluster. The last code set may be modified again in the future. Access the setting mode again, enter the last user code used (OLD CODE), then enter a new user code (NEW CODE) as described previously.



2.2) Code recovery

This function must be used should it be necessary to change the user code when the user no longer remembers the code currently in use. Both keys stored in the vehicle memory are needed to access this function.

Once the function is activated, pressing the MODE SET briefly displays the message "INSERT KEY 1", requesting identification of the first key. Insert the key. If the correct key is recognised within twenty seconds, the message "INSERT KEY 2" is shown on the display. Insert the second key. If the second key is also recognised within twenty



seconds, the instrument cluster resets the user code to the default code (five zeros - 00000). Enter the new user code following the "CHANGE USER CODE " procedure.

2.3) Windshield

This function also allows you to set the maximum speed at which the top fairing can be adjusted while riding, differentiating the setting for the two versions:

- SMALL: the top fairing can be adjusted up to a maximum speed of 130 km/h or 80 mph.
- BIG: the top fairing can be adjusted up to a maximum speed of 110 km/h or 68 mph.

IMPORTANT

THESE LIMITS MAY BE REDUCED UNDER CERTAIN ENVIRONMENTAL CONDITIONS.

3) Instrument cluster

The "Dashboard" menu contains the following options:

- 3.1) Backlight
- 3.2) Clock
- 3.3) Units
- 3.4) Language
- 3.5) Riding modes language

The functions available in the "Dashboard" menu are described in the following paragraphs.



3.1) Backlight

This function allows you to change the backlight of the digital display, from a minimum value of 1 to a maximum value of 10.

The back light intensity can be increased with one point by briefly pressing on the MODE RIGHT button. Once the maximum level is reached, a further press will restart the setting from the minimum value.

Keep the MODE RIGHT button pressed to continuously increase the value until the button is released.

Press MODE SET briefly to go back to the main MENU.



3.2) Clock

This menu allows to adjust the clock and change its display format. The menu is divided into the following items:

3.2.1) Minutes

3.2.2) Hours

3.2.3) 12 H or 24 H mode (12 H or 24 H display)

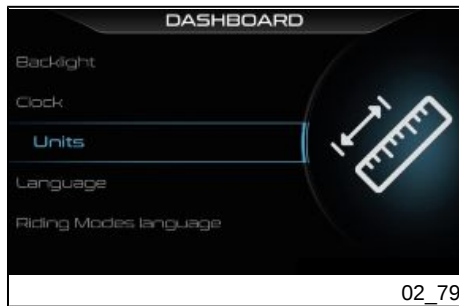
Press MODE SET briefly to go back to the "Dashboard" menu.

3.2.1) Minutes / 3.2.2) Hours / 3.2.3) 12H or 24H mode (12H or 24H display)

For the Minutes and Hours functions only, the value can be increased with one point with a brief press on the MODE RIGHT button. Once the maximum level is reached, a further press will restart the setting from the minimum value. Keep the MODE RIGHT button pressed to continuously increase the value until the button is released.

For the 12H or 24H mode function only (12H or 24H display), briefly press the MODE RIGHT selector to change the time display format.

Press MODE SET briefly to go back to the "Clock" menu.



3.3) Units

This menu allows you to change the settings for displaying the units and is divided as follows:

3.3.1) Speed

3.3.2) Fuel consumption

3.3.3) Temperature

3.3.4) Pressure (visible if applicable)

Press MODE SET briefly to go back to the "Dashboard" menu.

3.3.1) Speed

This function may be used to change the unit of measurement used for speed:

- km/h (kilometres per hour)
- mph (miles per hour)

The measurement unit can be changed by shortly pressing the MODE RIGHT button.

Press MODE SET briefly to go back to the "Dashboard" menu.

NOTE

IF THE UNIT OF MEASURE SET AT THE FACTORY HAS BEEN CHANGED, THE SPEED'S UNIT OF MEASURE WILL FLASH FOR 30 SECONDS EACH TIME THE KEY IS ENGAGED.

3.3.2) Fuel consumption

This function is used to change the display of the fuel consumption measurement unit:

- km/l
- l/100 km
- mpg (UK)
- mpg (USA)

The measurement unit can be selected by shortly pressing the MODE RIGHT button. These units will be displayed cyclically every time you press the button.

Press MODE SET briefly to go back to the "Dashboard" menu.

3.3.3) Temperature

This function is used to change the measurement unit used for temperature:

- °C (Celsius degrees)
- °F (Fahrenheit degrees)

The measurement unit can be changed by shortly pressing the MODE RIGHT button.

Press MODE SET briefly to go back to the "Dashboard" menu.

3.3.4) Pressure (visible if applicable)

This function is used to change the display of the tire pressure measurement unit:

- bar;
- psi.

The measurement unit can be changed by shortly pressing the MODE RIGHT button.

Press MODE SET briefly to go back to the "Dashboard" menu.



3.4) Language

This function is used to change the instrument panel display language:

- English
- Italian
- French
- German
- Spanish

The next language can be selected by shortly pressing the MODE RIGHT button. These languages will be displayed cyclically every time you press the button.

Press MODE SET briefly to go back to the "Dashboard" menu.



3.5) Riding modes language (Riding modes display language)

This function is used to change the Riding mode display language:

- Italian
- English

The next language can be selected by shortly pressing the MODE RIGHT button.

Press MODE SET briefly to go back to the "Dashboard" menu.



4) Riding mode (Riding mode) - where required

Each "Riding mode" is composed of the following entries:

MGCM (Moto Guzzi Engine Control)

MGCT (Moto Guzzi Traction Control)

MGCA (Moto Guzzi Aerodynamic Control) - **where required**

MGCS (Moto Guzzi Suspension Control) - **where required**

This function allows to edit the intervention level of each individual control system associated with the Riding mode selected.

Using the MODE RIGHT button, select the RIDING MODE you want to edit, then use the MODE UP or MODE DOWN buttons to position on the item of which you want to edit and change the intervention level using the MODE RIGHT button.

For more information on the available settings, refer to the "**MGCT System**" section.

To reset the values to the factory settings, select the desired RIDING MODE and press and hold the MODE SET button.



Press MODE SET briefly to go back to the main MENU.

NOTE

Intervention RANGE

MGCM: 1 - 3 (1 = more aggressive intervention, 3 = softer intervention)

MGCT: OFF - 4 (4 = maximum intervention)

MGCA: you can select the speed at which the aerodynamic protections will open.

MGCS: M1, M2, A1, A2. (M = manual, A = automatic)



5) Multimedia

The "Multimedia" menu consists of the following items:

- 5.1) Devices status
- 5.2) Devices pairing
- 5.3) Reset pairing

The functions available in the "Multimedia" menu are described in the following paragraphs.

Press MODE SET briefly to go back to the main MENU.



5.1) Devices status

The "Devices status" menu allows to view the list of paired devices.

Press MODE SET briefly to return to the "Multimedia" menu.



5.2) Devices pairing

The "Devices pairing" menu allows to pair new devices.

Press MODE SET briefly to return to the "Multimedia" menu.



5.3) Reset pairing

The "Reset pairing" menu allows to delete and consequently disconnect all paired devices.

Press MODE SET briefly to return to the "Multimedia" menu.



6) MGCS (Moto Guzzi Suspension Control) - where required

The MGCS menu allows you to adjust the parameters of the OHLINS electronic suspension based on the preferences of the rider and the use conditions of the vehicle.

The changes made will be effective on all Riding modes.

The MGCS menu consists of the following entries:

6.1) Manual dynamic / Manual comfort

6.2) Automatic dynamic / Automatic comfort



6.1) Manual dynamic / Manual comfort

These menus allow modifying the suspension settings in "manual" mode, by operating electronically on the hydraulic settings. Each of the two modes is preset by the parent company and it is always possible to return to the factory settings.

The editable parameters in these two modes are the following:

- Front compression
- Front rebound
- Rear compression
- Rear rebound

Once the parameter to be modified has been highlighted, using the MODE UP / DOWN buttons, it is possible to increase it by one point by briefly pressing the MODE RIGHT button.

Keep the MODE RIGHT button pressed to continuously increase the value until the button is released. Once the maximum setting value has been reached, the count will restart from the minimum value.

With a long press of the MODE SET button, the selected parameter will be reset to the factory value.

The "compression/extension" parameters can be modified from minimum 1 (HARD) to a maximum 31 (SOFT) (one unit corresponds to one click of a traditional suspension)

Briefly press on the MODE SET button to return to the "MGCS" menu.



6.2) Automatic dynamic / Automatic comfort

The automatic modes actively adapt the suspension and relative adjustments based on the vehicle's behaviour in relation with the riding style. Each of the two modes is preset by the parent company and it is always possible to return to the factory settings.

The editable parameters in these two modes are the following:

- Front firmness (front damping)
- Rear firmness (rear damping)
- Brake support (brake assistance)

Once the parameter to be modified has been highlighted, using the MODE UP / DOWN buttons, it is possible to increase it by one point by briefly pressing the MODE RIGHT button.

Keep the MODE RIGHT button pressed to continuously increase the value until the button is released. Once the maximum setting value has been reached, the count will restart from the minimum value.

With a long press of the MODE SET button, the selected parameter will be reset to the factory value.

The values can be modified from a minimum of -5 (SOFT) to a maximum of +5 (HARD).

Briefly press on the MODE SET button to return to the "MGCS" menu.



GPS NAVIGATION (if applicable)

Combined with the "MOTO GUZZI" application, the "MOTO GUZZI MIA" system allows the display of GPS indications on the digital display. By means of pictograms, distance and travel time data, the desired destination can be reached. The navigation icon appears on the digital display after setting the destination address.

Refer to the navigation guide by accessing the "MOTO GUZZI" application with your account.

Press and hold down MODE RIGHT to access the GPS navigation directions and information screen.

NOTE

BY SETTING THE DESTINATION ADDRESS VIA THE "MOTO GUZZI" APPLICATION, THE DIGITAL DISPLAY AUTOMATICALLY DISPLAYS THE INDICATION SCREEN.

NOTE

"SHORT PRESS": PRESS THE BUTTON AND RELEASE WITHIN 0.5 SECONDS;

"PRESS AND HOLD": PRESS THE BUTTON AND HOLD FOR AT LEAST 2 SECONDS.



02_92

Navigation screen key:

1) Trip log (A / B) / Navigation information

(If the Guzzi MIA ECU is present): telephone, music, media player.

(Where the components are present): heated seat, heated handgrips;

2) Riding mode selected;

3) Clock (displayed in 24 or 12 hour format, without the AM / PM indication);

4) Ice hazard icon (displayed at temperatures from 5 °F (-15 °C) to 37.4 °F (+3 °C)) / Battery alert indicator (voltage between poles too low);

5) Room temperature (displayed in °F or in °C);

- 6) Fuel gauge;
- 7) Indication regarding the manoeuvre after next manoeuvre and the relative distance;
- 8) distance remaining to arrival at destination;
- 9) time remaining to arrive at destination;
- 10) Destination address / Information pop-up;
- 11) indication of the next turn and relative distance;
- 12. Rpm indicator;
- 13) Speed (speedometer) (displayed in mph or km/h);
- 14) Gear selected (displayed only with engine running and vehicle moving);
- 15) Automatic lights mode active;
- 16) Fog lights active (where foreseen)
- 17) Open side stand indicator;
- 18) Water temperature measurement (displayed in °F or °C);
- 19) Downshift status (where implemented);
- 20) Low tyre pressure alarm;
- 21) Driving in reserve (only when the reserve indicator is on) (displayed in km or mi);
- 22) Indication regarding the speed limit applicable on the current road;
- 23) Suspension failure icon (V100 Mandello S);
- 24) Service icon;
- 25) Hand grip heating level indicator;
- 26) Seat heating level indicator;
- 27) Reduced power map indication (where required);.

In the space dedicated to navigation information it is possible to view:

- If not navigating, the list of the last destinations started (if any) is present;
- If navigating, the current destination is present.

ELECTRONIC CONTROLS OF THE VEHICLE

Moto Guzzi V100 is equipped with an advanced integrated electronic control system that helps improving the performance and the rider's safety.

The system consists of:

MGCM: Moto Guzzi Engine Control;

MGCT: Moto Guzzi Traction Control;

MGCA: Moto Guzzi Aerodynamic Control;

MGCS: Moto Guzzi Suspension Control (where required);

MGQS: Moto Guzzi Quick Shift (where required);

TPMS: Tire Pressure Measurement System (where required) - (see "Tires" section).

MGCM

Moto Guzzi Engine Control is the system that controls engine power delivery:

- Level 1 has an aggressive delivery and is suitable for performance use and expert riders.
- Level 3 has a gentle and progressive delivery of power and is recommended for use in poor grip / wet conditions. The vehicle is more easily handled.

ABS

The ABS with CORNERING is a device to avoid the wheels locking in case of emergency braking also when cornering, thus increasing vehicle stability when braking when compared with a traditional braking system.

The CORNERING mode takes into account the motorcycle's lean angle, so as to maximise efficiency without endangering the rider.

The ABS system improves vehicle control provided that the physical limits of vehicle grip on the road are not exceeded. The rider is fully responsible for riding at a suitable speed based on weather and road conditions, always leaving an appropriate safety margin.

Under no circumstances can the ABS system compensate for the rider's misjudgement or improper use of brakes.

NOTE

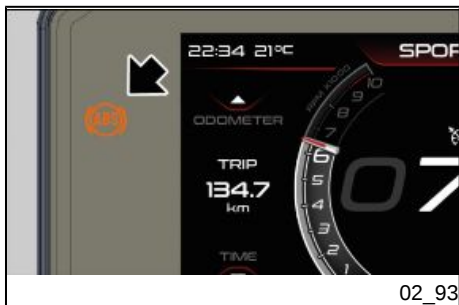
WHEN THE ABS STARTS WORKING, A PULSING IS FELT ON THE BRAKE LEVER.



THE ANTI-LOCK BRAKING SYSTEM OF THE WHEEL DOES NOT PREVENT FALLS WHILE CORNERING.

AN EMERGENCY BRAKING WITH THE VEHICLE INCLINED, HANDLEBAR TURNED, ON UNEVEN OR SLIPPERY ROADS, OR WITH POOR GRIP, CREATES A LACK OF STABILITY DIFFICULT TO HANDLE. RIDE CAREFULLY AND SENSIBLY AND ALWAYS BRAKE GRADUALLY.

DO NOT SPEED RECKLESSLY. THE VEHICLE GRIP ON THE ROAD IS SUBJECT TO LAWS OF PHYSICS WHICH NOT EVEN THE ABS SYSTEM CAN ELIMINATE.



When the vehicle is started, after the initial instrument panel check cycle, the ABS warning lamp flashes until the vehicle reaches a speed of 3 mph (5 km/h), after which it extinguishes.

If the ABS warning lamp lights steadily or continues to flash even after exceeding a speed of 5 km/h (3.1 mph), this means that a fault has been detected and that the ABS system has been disabled.

In this case carry out the following operations:

- stop the vehicle;
- Key OFF-ON;
- ride the vehicle to a speed above 3.1 mph (5 km/h): the ABS warning light must be turned off;
- the ABS system is working.

If the ABS disabled indication remains:

NOTE

IF THIS OCCURS, CONTACT AN OFFICIAL Moto Guzzi dealer.

IMPORTANT

If the ABS warning light flashes more frequently than that of the initial check, it means that there is a problem with the IMU inertial platform, which will not provide information to any of the vehicle control systems.

In this case the MGCT traction control is deactivated, therefore riding the vehicle will be extremely dangerous. DRIVE WITH THE MAXIMUM CAUTION AND CONTACT AN Official Moto Guzzi Dealer.

NOTE

IN THE EVENT OF A PROLONGED ROTATION OF THE REAR WHEEL WITH THE FRONT WHEEL LOCKED (BURNOUT, MOTORCYCLE PLACED ON THE CENTRAL STAND, ETC.) THE SYSTEM CAN BE AUTOMATICALLY DEACTIVATED WHEN THE ABS AND THE MGCT ABD ABS INDICATORS ARE SWITCHED ON STEADY. TO REACTIVATE, TURN THE IGNITION SWITCH OFF AND THEN ON AGAIN AND SELECT THE REQUIRED SETTING.

NOTE



THE SAFETY PROVIDED BY THE ABS DOES NOT, IN ANY CASE, JUSTIFY RISKY MANOEUVRES. EVEN THOUGH THE ABS SYSTEM ENSURES GREATER VEHICLE CONTROL IN THE EVENT OF EMERGENCY BRAKING, ALWAYS OBSERVE THE CORRECT MINIMUM SAFETY DISTANCE FROM THE VEHICLE IN FRONT OF YOU.



THE ABS SYSTEM USES SIGNALS RECEIVED FROM THE TWO TONE WHEELS (FRONT AND REAR) TO CONTROL THE PRESSURE APPLIED TO BOTH BRAKES. IT IS IMPORTANT TO ALWAYS CHECK THAT THE TONE WHEEL IS IN PERFECT CONDITION, AND PERIODICALLY CHECK THAT THE DISTANCE FROM THE SENSOR IS CONSTANT OVER THE ENTIRE 360 DEGREES. WHEN REMOVING AND REFITTING THE FRONT WHEEL, IT IS VERY IMPORTANT TO ENSURE THAT THE GAP BETWEEN THE TONE WHEEL AND THE SENSOR AND THE PARALLEL ALIGNMENT BETWEEN THE TWO COMPONENTS ARE AS

SPECIFIED. FOR CHECKING AND ADJUSTMENT, CONTACT AN Authorised Moto Guzzi Garage.



WHERE THE MOTORCYCLE HAS AN ABS SYSTEM, NON-APPROVED BRAKE PADS AND TYRES COMPROMISE SMOOTH BRAKING, DRASTICALLY REDUCING DRIVING SAFETY.

NOTE

AS THE ABS SYSTEM SENSORS READING THE TONE WHEELS ARE EXTREMELY SENSITIVE, A SPEED OF A FEW mph (km/h) MAY BE INDICATED ON THE DIGITAL DISPLAY WHEN THE MOTORCYCLE IS STATIONARY AND THE ENGINE IS RUNNING.

SUCH BEHAVIOUR IS TO BE CONSIDERED NORMAL AND DOES NOT CREATE MALFUNCTIONS IN THE SYSTEM.



IF THE DISTANCE OF THE FRONT SENSOR IS NOT INCLUDED IN THE INTERVAL LISTED BELOW, CONTACT AN Official Moto Guzzi Dealer.

Characteristic

Distanza tra ruota fonica e sensore anteriore

0.020 - 0.094 in (0.5 - 2.40 mm)

Moto Guzzi Traction Control

Traction control: is a system developed to control the relative skidding of the wheels and help the rider to have greater control and safety of the vehicle.

The MGCT system also intervenes in an optimal manner during cornering, thus controlling skidding in this stage of the ride.

This is made possible by the inertia sensor platform, which provides the ECU with precise information concerning the inclination of the motorcycle.

MGCT SYSTEM DEACTIVATED MANUALLY

At key-on and after the initial dashboard check cycle, if the system is deactivated, the MGCT indicator light remains lit and fixed until the rider activates the system again.

MGCT SYSTEM ACTIVE

At key-on and after the initial instrument cluster check cycle, the MGCT indicator light flashes slowly if the system has remained active since the previous use. The light will turn off once 3.1 mph (5 km/h) is exceeded.

If the MGCT indicator light is on permanently it means that a malfunction was detected and the traction control is automatically deactivated. At the same time as the indicator light comes on, the message "MGCT DISABLED" will be shown in the Pop-up area of the display

In this case carry out the following operations:

- stop the vehicle;
- Key OFF-ON;
- reactivate the system manually
- ride the vehicle to a speed above 3.1 mph (5 km/h): the MGCT indicator light must turn off;
- MGCT is working.

If the MGCT disabled message remains:

NOTE

IF THIS OCCURS, CONTACT AN OFFICIAL Moto Guzzi dealer.



THE MGCT SYSTEM ACTS ON THE REAR WHEEL ON THE BASIS OF INFORMATION RECEIVED FROM TONE WHEELS INSTALLED ON BOTH WHEELS. IT IS IMPORTANT TO ALWAYS CHECK THAT THE TONE WHEEL IS IN PERFECT CONDITION, AND PERIODICALLY CHECK THAT THE DISTANCE FROM THE SENSOR IS CONSTANT OVER THE ENTIRE 360 DEGREES. WHEN REMOVING AND REFITTING THE FRONT WHEEL, IT IS VERY IMPORTANT TO ENSURE THAT THE GAP BETWEEN THE TONE WHEEL AND THE SENSOR AND THE PARALLEL ALIGNMENT BETWEEN THE TWO COMPONENTS ARE AS SPECIFIED. FOR CHECKING AND ADJUSTMENT, CONTACT AN Authorised Moto Guzzi Garage

NOTE

IN THE EVENT OF A PROLONGED ROTATION OF THE REAR WHEEL WITH THE FRONT WHEEL LOCKED (BURNOUT, MOTORCYCLE PLACED ON THE CENTRAL STAND, ETC.) THE SYSTEM CAN BE AUTOMATICALLY DEACTIVATED WHEN THE ABS AND THE MGCT ABD ABS INDICATORS ARE SWITCHED ON STEADY. TO REACTIVATE, TURN THE IGNITION SWITCH OFF AND THEN ON AGAIN AND SELECT THE REQUIRED SETTING.

NOTE

AS THE MGCT SYSTEM SENSORS READING THE TONE WHEELS ARE EXTREMELY SENSITIVE, A SPEED OF A FEW mph (km/h) MAY BE INDICATED ON THE DIGITAL DISPLAY WHEN THE MOTORCYCLE IS STATIONARY AND THE ENGINE IS RUNNING.

SUCH BEHAVIOUR IS TO BE CONSIDERED NORMAL AND DOES NOT CREATE MALFUNCTIONS IN THE SYSTEM.

Characteristic

Distanza tra ruota fonica e sensore anteriore

0.020 - 0.094 in (0.5 - 2.40 mm)

The system is active by default. However, if the system has been deactivated, in order to reactivate it, the user must access the specific screen using the selector button on the right hand handlebar control set

Using the MODE navigation buttons, select level 1 if the level was set to 0.

If the MGCT system is activated when the vehicle is stationary, the relative indicator light will flash until 3.1 mph (5 km/h) is reached.

Press the MODE UP or MODE DOWN buttons briefly to increase or decrease the MGCT level setting from "1" (minimum system control) to "4" (maximum system control).

Using the MGCT/Cruise control command (if the cruise control is not active) it is possible to modify the control value of the MGCT system directly from the main screen, in all riding modes.

The MGCT value is changed (from 1 to 4) with short up or down presses of the control.

From level 1, the MGCT is permanently disabled with a long press downwards.

To reset the MGCT, make a long or short push upwards.

NOTE

THIS IS ALSO POSSIBLE WITH THE MOTORCYCLE IN MOTION.

IMPORTANT

TO GAIN FAMILIARITY WITH THE MGCT SYSTEM, PREFERABLY USE LEVEL "4" TO START WITH, THEN TRY THE OTHER LEVELS TO IDENTIFY WHICH ARE THE BEST SUITED TO YOUR RIDING STYLE AND FOR DIFFERENT ROAD AND WEATHER CONDITIONS.

LEVEL "1" IS RECOMMENDED FOR EXPERT RIDERS IN IDEAL ROAD SURFACE CONDITIONS.

THE OTHER LEVELS INCREASE THE INTERVENTION OF THE MGCT SYSTEM, UP TO THE MAXIMUM INTERVENTION OF LEVEL "4".

To deactivate the system, set the control level to "OFF".

The MGCT warning light will be on steady.

IMPORTANT

IF THE MGCT SYSTEM IS DEACTIVATED, A POP-UP WITH THE MESSAGE "MGCT DISABLED" IS SHOWN ON THE DIGITAL DISPLAY TO WARN THE RIDER THAT THERE IS NO TRACTION CONTROL ASSISTANCE.

THIS POP-UP CLEARS AFTER 5 SECONDS.

NOTE

THIS IS ALSO POSSIBLE WITH THE MOTORCYCLE IN MOTION.

NOTE

ONCE THE IGNITION SWITCH IS TURNED OFF, AT THE NEXT START UP THE MGCT SYSTEM MAINTAINS THE PREVIOUSLY SELECTED SETTINGS.

Moto Guzzi Aerodynamic Control

This system regulates the deployment of the aerodynamic deflectors on the tank and guarantees the protection of the rider from turbulence.

The system can be set to ON or OFF, or the vehicle speed at which the deflectors will deploy can be set to a range from 30 km/h to 80 km/h or from 20 mph to 50 mph.

The speed at which the deflectors are deployed can be adjusted by short presses of the MODE UP and MODE DOWN buttons.

This setting is individually selectable for each of the riding modes.

Moto Guzzi Suspension Control (where required)

This vehicle is equipped with an ÖHLINS Smart EC 2.0. system.

The system is composed of front suspension, rear suspension and control unit (Suspension Control Unit).

MGCS provides preset damping levels, optimized for various conditions, both for the front and rear suspensions.

Through the control unit that receives signals from the various control units of the vehicle, the front and rear suspensions are constantly updated data on the driving conditions.

This results in an optimized compression and extension damping, based on the vehicle's behaviour during driving. The system permanently adjusts the compression and extension damping levels according to the circumstances.

Furthermore the spring pre-load of the front and rear suspension can be manually adjusted.



PAY SPECIFIC ATTENTION WHEN DISCONNECTING THE CONNECTORS, TO AVOID DAMAGING THEM, WHICH WOULD COMPROMISE THE OPERATION OF THE VEHICLE.

There are two modes, Automatic and Manual:

- **A1 - Automatic dynamic** Mode specific for sportive road use.
- **A2 - Automatic comfort** Mode specific for road use aimed at comfort.
- **M1 - Manual dynamic** Mode specific for sportive road use.
- **M2 - Manual comfort** Mode specific for road use aimed at comfort.

For each mode, the control type of the MGCS system can be modified.

Depending on the selected mode, the following parameters can be modified:

- **Front firmness (front damping):**Control that allows balancing the front suspension between comfort and stability. An adjustment aimed at comfort

improves the filtering of the road bumps and the shock absorption; vice versa, an adjustment aimed at stability, increases the dampening of the movements.

- **Front compression:** Energy absorption control when the front suspension is compressed. Therefore, the compression is adjusted when the front wheel is subjected to a load.
- **Front rebound:** Energy absorption control when the front suspension is in extension phase. It adjusts the speed with which the suspension returns to the normal position after having been compressed.
- **Rear firmness (rear damping):** Control that allows balancing the rear suspension between comfort and stability. An adjustment aimed at comfort improves the filtering of the road bumps and the shock absorption; vice versa, an adjustment aimed at stability, increases the dampening of the movements.
- **Rear compression:** Energy absorption control when the rear shock absorber is compressed. Therefore, the compression speed is adjusted when the rear wheel is subjected to a load.
- **Rear rebound:** Energy absorption control when the rear suspension is in extension phase. It adjusts the speed with which the suspension returns to the normal position after having been compressed.
- **Brake support (brake assistance):** Energy absorption control when the vehicle is braking, based on the set resistance value, the load variation and consequently offering better control.

FACTORY SETTINGS TABLE

Parameters	A1 - Automatic dynamic	A2 - Automatic comfort	M1 - Manual dynamic	M2 - Manual comfort
Front firmness	0	-5	-	-
Front compression	-	-	28	31
Front extension	-	-	5	20
Rear firmness	0	-5	-	-
Rear compression	-	-	30	31
Rear extension	-	-	10	15
Brake support	0	-5	-	-

NOTE

The adjustment ranges of the registers vary between "Automatic" and "Manual" and are:

"Automatic": -5 (Soft) / +5 (Hard)

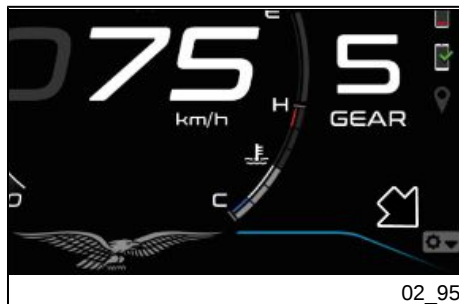
"Manual": 1 (Hard) / 31 (Soft)

(Soft): the hydraulic brake is at its minimum value. When referred to the compression, the suspension will be softer; when referring to rebound, the suspension return will be faster.

(Hard): the hydraulic brake is at its maximum value. When referred to the compression, the suspension will be harder; when referring to rebound, the suspension return will be slower.



02_94



02_95

IMPORTANT

IN CASE OF AN ELECTRICAL ANOMALY OR IF A SUSPENSION CONNECTOR IS DISCONNECTED, THE SUSPENSION ICON WILL FLASH ON THE DIGITAL DISPLAY TO INDICATE A MALFUNCTION OF THE MGCS SYSTEM.

THEREFORE, RIDE CAREFULLY AND IMMEDIATELY CONTACT AN OFFICIAL Moto Guzzi DEALER.

IMPORTANT

EVEN IF A FAULT IS SIGNALLED AND THEREFORE WHEN THERE IS NO ELECTRONIC SUSPENSION MANAGEMENT, THEY WILL NOT LOSE THEIR TRADITIONAL MECHANICAL FUNCTIONALITY.

Moto Guzzi Quick Shift (where required)

It is a system that allows go up and down the gears without having to use the clutch 'and without changing the position of the throttle grip.

It uses the gear shift sensor signal on the gear lever to shift gears more quickly with a lower decrease in rpm than a traditional gear shift as regards upshifting.

The system is only active above an engine speed: of approximately 2000 rpm.

IMPORTANT

THE CLUTCH MUST BE USED FOR UPSHIFTS AT ENGINE SPEEDS BELOW 2000 rpm.

IMPORTANT

THE SYSTEM IS ACTIVE WHEN SHIFTING UP ONLY WITH THE THROTTLE OPEN.



It can operate when downshifting as long as all the required conditions are met, including an rpm less than the maximum threshold, which varies according to the gear. If the downshifting system is not available temporarily for some reason (e.g. RPM too high, first gear engaged), the instrument panel icon will be orange.

If the icon lights red, it means that the electronic Quick Shift system is disabled due to a problem.

In this case carry out the following operations:

- Stop the vehicle;
- perform key OFF-ON;
- ride the vehicle to a speed above 3.1 mph (5 km/h): the warning light must turn off;
- the MGQS is now functional.

If the MGQS deactivated signal persists, contact an **OFFICIAL MOTO GUZZI DEALER**.

FACTORY SETTINGS TABLE

Riding mode	MGCM	MGCT	MGCA	MGCS
SPORT	1	1	OFF	A1
ROAD	2	2	OFF	A1
TOURING	2	3	Based on the speed	A2
RAIN	3	2	ON	A2

MGCM: LEVEL 3 IS TO BE USED IN POOR GRIP, RAIN CONDITIONS.

MGCT: LEVEL 3 IS TO BE USED IN POOR GRIP, RAIN CONDITIONS.



02_97

NOTE

THE TABLE SHOWS THE MAXIMUM INDICATIONS ON THE SETTING LEVELS OF THE VARIOUS CONTROLS. EACH RIDER MAY PERSONALISE THE LEVELS TO THEIR OWN PREFERENCE IN ACCORDANCE WITH ABILITY, RIDING STYLE AND ROAD CONDITIONS.

FOR MORE INFORMATION ON LEVEL SETTINGS, SEE THE RELATIVE PARAGRAPHS FOR EACH INDIVIDUAL FUNCTION.

KEY OF THE MGCT SYSTEM WARNING LIGHT

- **Indicator light off:** with the system activated with the vehicle in motion or with the system activated after exceeding 3.1 mph (5 km/h) after key-on;
- **Indicator light continuously lit:** system deactivated deliberately by rider, or deactivated as a result of a malfunction;
- **Indicator light flashing slowly:** with the system active after key-on, before exceeding 3.1 mph (5 km/h), or in the event of certain malfunctions inhibiting modification of the MGCT level setting ("+" and "-" buttons disabled);
- **Indicator light flashing quickly:** when MGCT system is effectively implementing traction control.

Ignition Switch (02_98)

The ignition switch is on the front of the fuel tank where the steering headstock is.

The vehicle is supplied with two keys (one is the spare key).

The lights can only be switched off with the ignition switch turned to OFF.

NOTE

THE KEY IS USED IN THE IGNITION/STEERING LOCK SWITCH, THE KEYHOLE FOR THE FUEL TANK CAP, AND FOR THE SADDLE COMPARTMENT.

NOTE

THE LIGHTS COME ON AUTOMATICALLY AFTER THE ENGINE STARTS.

NOTE

KEEP THE SPARE KEY IN DIFFERENT PLACE, NOT WITH THE VEHICLE.



LOCK (1): The steering is locked. It is not possible to start the engine or switch on the lights. The key can be extracted

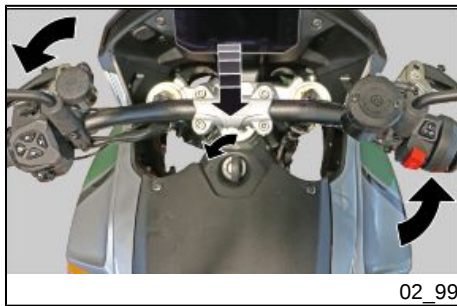
OFF (2): The engine and lights cannot be set to work. The key can be extracted.

ON (3): The engine can be started. The key cannot be extracted.

Locking the Handlebar (02_99)



TO AVOID LOSING CONTROL OF THE VEHICLE, NEVER TURN THE KEY TO "LOCK" WHILE RIDING.

**To lock the steering:**

- Turn the handlebar fully to the left.
- Turn the key to «OFF».
- Push in the key and turn it anticlockwise (to the left), steer the handlebar slowly until the key is set to «LOCK».
- Extract the key.

**Horn Button (02_100)**

Press it to activate the horn.



02_101

Turn Signal Selector (02_101)

Spostare l'interruttore verso sinistra, per indicare la svolta a sinistra; spostare l'interruttore verso destra, per indicare la svolta a destra. Premere l'interruttore per disattivare l'indicatore di direzione.

The turn indicators have a self-cancelling function that implements the following logic:

If the vehicle is at a standstill, the turn indicators continue to flash for an indefinite time.

With the vehicle in motion, the turn signals self-cancel when one the two following conditions is met:

- After a time (t) = 40 sec.
- After riding 0.31 mi (500 m)

If the vehicle speed reaches zero during this period, the time and distance counters are reset and restart when the vehicle starts moving once again.

Switching the turn indicators to the opposite side without pressing the switch in the intermediate reset position causes both the time and distance counters to reset and restart.



02_102

High/Low Beam Selector (02_102)

In DRL ON mode:

- the DRL lights only are lit when the selector is left in the centre position (2).
- pressing the selector into position (1) switches on the high beam headlight
- press the selector into position (3) to flash the high beam headlamp to signal danger or an emergency.

When the low beam headlights are on (DRL OFF):

- the low beam lights only are lit when the selector is left in the centre position (2).
- pressing the selector into position (1) switches on the high beam headlight
- press the selector into position (3) to flash the high beam headlamp to signal danger or an emergency.



02_103

Passing Button (02_103)

Press button (3) to flash the high beam headlamp to signal danger or an emergency.

Releasing the switch deactivates the high beam flash.



02_104

Daytime/night lights switch (02_104, 02_105)

This button allows to select the use mode of the daytime running lights (DRL), night lights (low / high beams) and the activation of the fog lights (if applicable).

- Press the button briefly to cycle through the modes available (daytime/night-time lights).
- A long press of the button will activate the fog lights regardless of the lighting mode active.
- A further long press will deactivate the fog lights.

NOTE

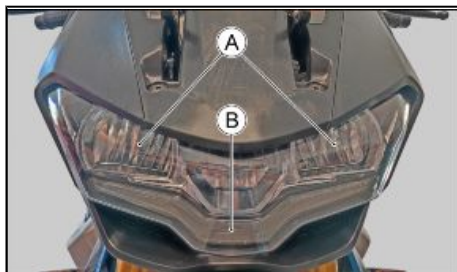
IF THE "HEADLAMP MODE" FUNCTION (SEE PARAGRAPH "ADVANCED FUNCTIONS") IS SET TO "AUTO" (AUTOMATIC), THE TWILIGHT SENSOR IS ALSO USED TO SWITCH THE LOW BEAM HEADLIGHTS ON AUTOMATICALLY IN LOW LIGHT CONDITIONS.

IF THE "HEADLAMP MODE" FUNCTION IS SET TO "EMERGENCY", THE DAY-TIME RUNNING LIGHTS (DRL) ARE DISABLED AND THE LOW BEAM HEADLIGHTS ONLY REMAIN PERMANENTLY LIT.

NOTE

THE FOG LIGHTS WILL BE DEACTIVATED WITH EACH KEY OFF/ON.

THE LOW/HIGH BEAM LIGHTS ARE ONLY ON WHEN THE ENGINE IS RUNNING.



02_105

NOTE

WHEN THE LOW BEAM HEADLIGHTS ARE ON (A), THE BRIGHTNESS OF THE DRL LIGHTS (B) IS DIMMED.

WARNING

Flashing of the fog light icon on the digital display indicates a problem with the front light assembly. Go to an OFFICIAL MOTO GUZZI DEALER as soon as possible.

Heated handgrip control (02_106, 02_107)

(if applicable)



The activation, deactivation and heat level of the heated hand grips is performed with the control button.

The page dedicated to setting the heated grips can be viewed by scrolling through the pages in the space dedicated to the trip log.

By briefly pressing the MODE UP button it is possible to activate the heating and subsequently with further presses to increase the heat intensity level.

By briefly pressing the MODE DOWN button it is possible to lower the intensity level and subsequently deactivate the system.

NOTE

HEATING OF THE HAND GRIPS, REGARDLESS OF THE INTENSITY LEVEL CHOSEN, ONLY OCCURS WITH THE ENGINE STARTED AND OVER 2000 rpm

NOTE

THE HEATED GRIPS ARE OFF WITH EACH KEY OFF-ON.

NOTE

THE FLASHING SYMBOL INDICATES THE MALFUNCTION OF A GRIP.



Heated seat control (if applicable)

Activating, deactivating and setting the heat level of the heated seat is done through the control buttons.

The page dedicated to setting the heated seat can be viewed by scrolling through the pages in the space dedicated to the trip log.

By briefly pressing the MODE UP button it is possible to activate the heating and subsequently with further presses to increase the heat intensity level.

By briefly pressing the MODE DOWN button it is possible to lower the intensity level and subsequently deactivate the system.

NOTE

HEATING OF THE SEAT, REGARDLESS OF THE INTENSITY LEVEL CHOSEN, ONLY OCCURS WITH THE ENGINE STARTED AND OVER 2000 rpm

NOTE

WITH EACH KEY OFF-ON THE SEAT HEATING IS SWITCHED OFF.

NOTE

THE FLASHING SYMBOL INDICATES THE MALFUNCTION OF THE HEATING SYSTEM.



Start-up Button (02_108)

By pressing the button on the right side handlebar, the starter motor spins the engine.

The following conditions are necessary to permit engine start:

- If the vehicle is in neutral with the side stand extended: Press the starter button on the right side handlebar.
- If the vehicle has any gear is engaged and the stand is closed: Pull the clutch lever and at the same time press the starter button on the right side handlebar.

Engine Stop Switch (02_109)

IMPORTANT



DO NOT OPERATE THE ENGINE STOP SWITCH WHILE RIDING THE VEHICLE.



It acts as a safety or emergency switch.

Press and hold the ignition switch in the "KEY ON" position to start the engine; press the switch to set it to "KEY OFF" to stop the engine.

NOTE

WITH ENGINE OFF AND THE IGNITION SWITCH SET TO «ON» THE BATTERY MAY DISCHARGE.

Button Cruise Control (02_110, 02_111, 02_112, 02_113)

IMPORTANT

ALWAYS SWITCH OFF THE SYSTEM (SWITCHING FROM ON TO OFF) BEFORE CHANGING THE RIDING MODE.



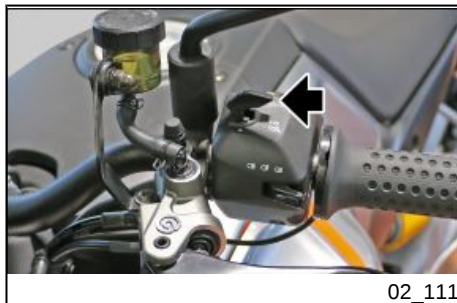
Cruise control is an electronic system that keeps the vehicle at a constant speed selected by the rider.

Push and hold (more than 1 second) the cruise control selector to the left switch the system on (OFF -> ON). The relative indicator on the dashboard instrument panel flashes to confirm that the system is on.

Going from OFF to ON is also possible with the engine off, as long as the engine stop switch is on RUN.

NOTE

IF THERE IS AN ANTI-THEFT SYSTEM, IT SHOULD BE UNLOCKED TO ALLOW THE SYSTEM TO BE ACTIVATED.



The system can be used in certain ranges of speeds for the gears from the third to the sixth, even during deceleration and with the throttle grip released.

The maximum and minimum settable speed values depend on the gear currently selected

Once at the required speed, the cruise control system may be activated by the rider (switched to SET state) by pushing the cruise control selector briefly (for less than 1 second) to the left, provided that the following conditions are met:

- The engaged gear cannot be less than the third and even in neutral;
- The brakes should not be operated;
- The clutch must not be operated;
- The speed conforms to the limit established for each gear

The indicator lamp on the instrument cluster lights continuously to indicate that the system is active.



The rider may now release the throttle grip, as the system will automatically maintain the set speed.

It is possible to raise or lower the cruising speed with a short press (less than 1 second) of the cruise control switch up or down (raise/lower the speed by 1 mph (2 km/h)) or by prolonged pushing (from 1 to 20 seconds) up or down (constant raising/lowering of the speed). The throttle may be used to increase speed temporarily by up to 18 mph (30 km/h) for the third, fourth and fifth gear and 25 mph (40 km/h) for the sixth gear with respect to the selected speed without turning off the system (e.g. passing). If the increase in speed exceeds 18 mph (30 km/h) the third, fourth and fifth gear and 25 mph (40 km/h) for the sixth gear, it will cause a system deactivation (change from SET to ON, flashing light). Released the throttle grip, the motorcycle will return to the selected cruising speed.



The system is deactivated (change from SET to ON status) if any of the following conditions:

- By operating the clutch;
- Operating the front/rear brake;
- Inserting a lower gear than 3rd or shift into neutral;
- By briefly moving the selector to the left;
- If the engine rpm limiter is activated;
- If the tracking control is activated;
- If climbs or particularly steep descents appear;
- Turning the throttle grip in the direction of contrary rotation

The system can be activated any time observing as usual the previously described conditions and keeping the selector pressed upward (for more than 1 second) if you want to reconfirm the last cruise speed used or by briefly moving the selector to the left to set a new cruising speed.

The system turns off completely (change from SET to the OFF state), then the stored speed is lost and the instrument cluster light goes off, if any of the following conditions are present:

- Keeping the cruise control selector moved to the left (for more than 1 second);
- Run-off interrupter activated;
- Engine stop (Key-OFF);

- Failure, malfunction of a component involved in controlling the speed (tone wheels sensors, control units, etc.)

IMPORTANT

WHEN ENTERING THE ADJUSTMENT MODE OF THE CRUISE CONTROL, THE QUICK SHIFT SYSTEM IS DISABLED.

immobilizer system performance (02_114, 02_115, 02_116)

For enhanced theft protection, the vehicle is equipped with an electronic immobilizer system that is activated automatically when the ignition key is removed.

Keep the second key in a safe place since it is not possible to make a copy if it gets lost. This would imply replacing numerous parts of the vehicle (besides the locks).

Each key in the grip has an electronic device - transponder - which modulates the radio frequency signal emitted by a special aerial inside the switch when the vehicle is started.

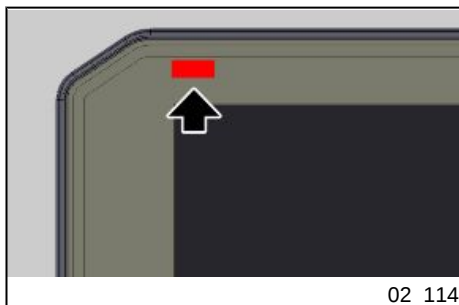
The modulated signal is the "password" by which the appropriate central unit recognises the key and only after this occurs, it allows the engine start-up.

IMPORTANT

THE IMMOBILIZER SYSTEM CAN MEMORISE UP TO FOUR KEYS.

DATA STORAGE OPERATION CAN ONLY BE PERFORMED AT THE DEALER'S.

DATA STORAGE PROCEDURE CANCELS THE EXISTING CODES. THEREFORE, IF A CUSTOMER WANTS TO PROGRAM SOME NEW KEYS, S/HE SHOULD GO TO THE DEALER TAKING ALL THE KEYS S/HE WANTS TO ENABLE.





In the event the instrument panel detects a fault with the immobilizer system when the key is connected, you will need to enter the user code to start the motorcycle. At the same time the indicator light appears on the instrument panel, the general red warning light will come on.



Once the code has been correctly entered, the error will be displayed on the screen. It is then possible to start the motorcycle so you can go immediately to an Authorized **Moto Guzzi** Dealership.

IMPORTANT

PRESSING OR MOVING ANY CONTROL ON THE LEFT SWITCH CLUSTER, IT IS POSSIBLE TO REMOVE THE ERROR NOTIFICATION SCREEN, BUT THE SCREEN WILL BE VISIBLE AGAIN AFTER ABOUT 10 SECONDS.

Opening the saddle (02_117, 02_118, 02_119, 02_120, 02_121)

- Rest the vehicle on its stand.
- Insert the key in the saddle lock located on the left-hand side fairing.
- Turn the key clockwise to release the passenger saddle from the lock.



02_117



02_118

- Lift the front part of the passenger saddle and bring it toward the rear of the vehicle to remove it.
- Now it is possible to access the storage compartment of the vehicle.



02_119

- Lift the rear part of the rider saddle, bring it toward the rear of the vehicle to release it from the relative supports and then remove it from the vehicle.
- Once the driver and passenger saddles are removed, you will have access to the vehicle's battery.



02_120

Refitting the saddles:

- Move the rider saddle into its position, taking care to insert the central fastener and the two front fasteners in the relative seats.



02_121

- Insert the rear fastening of the passenger saddle into its support on the vehicle.
- While holding the saddle in place, press down the front part to engage the lock.

IMPORTANT

BEFORE LOWERING AND LOCKING THE SADDLE, MAKE SURE THAT THE IGNITION KEY HAS NOT BEEN FORGOTTEN IN AN UNSUITABLE POSITION UNDER THE SADDLE.



BEFORE RIDING, MAKE SURE THAT THE SADDLE IS CORRECTLY LOCKED.

Glove/tool kit compartment (02_122)

To access the glove / tool kit compartment it is necessary to remove the passenger seat, using the relevant lock on the left side of the vehicle.



02_122

USB Port (02_123, 02_124)

The vehicle is equipped with a USB socket, located in the storage compartment under the passenger saddle.

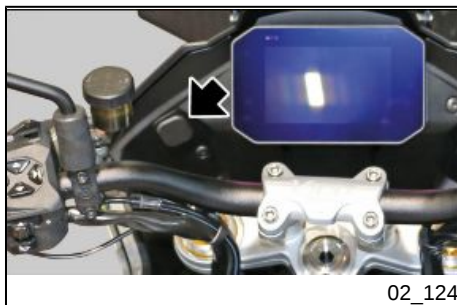
To use it, remove the protection cap from the socket. To prevent damage to the socket, replace the protective cap whenever the socket is not in use.



02_123



IF A USB DEVICE IS CONNECTED, ENSURE THE CORRECT POSITIONING OF THE CABLE TO AVOID THAT IT WILL BE SMASHED.



Second USB socket (if applicable)

The second USB socket (if fitted) is located next to the instrument cluster, on the left side of the fairing.



TO PREVENT WATER AND/OR HUMIDITY FROM DAMAGING THE USB PORT, DO NOT CONNECT ANY DEVICES IN CASE OF RAIN.



IF A USB DEVICE IS CONNECTED, ENSURE THE CORRECT POSITIONING OF THE CABLE TO AVOID THAT IT WILL BE SMASHED.

The USB sockets activate once the key is turned to the 'ON' position.

WARNING

PROLONGED USE OF THE USB PORT MAY PARTIALLY DRAIN THE BATTERY.

USB PORT

Output voltage:	(5.00+/-0.25) DC
Charge current	1A Max

The identification (02_125, 02_126)

Write down the chassis and engine number in the specific space in this booklet. The chassis number is handy when purchasing spare parts.

IMPORTANT



THE MODIFICATION OF THE IDENTIFICATION CODES IS A SERIOUS PUNISHABLE CRIME. HOWEVER, THE LIMITED WARRANTY FOR NEW VEHICLES WILL BE VOID IF THE VEHICLE IDENTIFICATION NUMBER (VIN) HAS BEEN MODIFIED OR NOT PROMPTLY DETERMINED.

FRAME NUMBER

The chassis number is stamped on the RH side of the headstock.

Chassis No.



02_125



02_126

ENGINE NUMBER

The engine number is printed on the left side of the crankcase, below the cylinder.

Engine No.



02_127

Windshield adjustment (02_127)

It is possible to electronically adjust the height of the windshield by selecting "WINDSCREEN REGULATION" using the "MODE SET" button on the left-hand switch. The height can then be adjusted using the MODE UP and MODE DOWN buttons on the left-hand switch.

V100 Mandello - V100 Mandello S



Chap. 03
Use

Checks (03_01)

IMPORTANT

BEFORE DEPARTURE, ALWAYS CARRY OUT A PRELIMINARY CHECK OF THE VEHICLE, FOR CORRECT AND SAFE OPERATION. FAILURE TO DO SO MAY CAUSE SEVERE PERSONAL INJURY OR VEHICLE DAMAGE. DO NOT HESITATE TO CONTACT AN Official Moto Guzzi Dealer IF YOU DO NOT UNDERSTAND HOW SOME CONTROLS WORK OR IF MALFUNCTIONING IS DETECTED OR SUSPECTED. CHECKS DO NOT TAKE LONG AND RESULT IN SIGNIFICANTLY ENHANCED SAFETY.



This vehicle has been programmed to indicate in real time any operation failure stored in the electronic control unit memory.

Every time the ignition switch is turned to "ON", the alarm LED warning lights turn on for about three seconds on the dashboard.

PRE-RIDE CHECKS

Front and rear disc brake

Check for proper operation. Check brake lever empty travel and brake fluid level. Check for leaks. Check brake pads for wear. If necessary top-up with brake fluid.

Throttle grip	Check that the rotation is smooth in both directions and that there is no jamming.
Engine oil	Check and/or top-up as required.
Wheels/ tyres	Check that tyres are in good conditions. Check inflation pressure, tyre wear and potential damage. Remove any possible strange body that might be stuck in the tread design.
Brake levers	Check they function smoothly. Lubricate the joints and adjust the travel if necessary.
Clutch lever	Check correct operation and empty travel. Lubricate the joints if necessary.
Steering	Check that the rotation is uniform, smooth and there are no signs of clearance or slackness.
Side stand	Check that it slides smoothly and that it snaps back to its rest position upon spring tension. Lubricate couplings and joints if necessary.
Clamping elements	Check that the clamping elements are not loose. Adjust or tighten them as required.
Fuel tank	Check level and refill if necessary.

Check the circuit for leaks or obstructions.

Check that the tank cap closes correctly.

Engine stop switch (ON - OFF)	Check function.
Luci, spie, avvisatore acustico e dispositivi elettrici	Controllare il corretto funzionamento dei dispositivi acustici e visivi.
Tone wheel	Check that the front phonic wheel is perfectly clean and not damaged.

Refueling (03_02)

IMPORTANT

THE FUEL IS EXTREMELY INFLAMMABLE AND MAY BECOME EXPLOSIVE IN CERTAIN CONDITIONS.

FOR THIS REASON, IT IS NECESSARY TO REFUEL THE VEHICLE AND PERFORM MAINTENANCE OPERATIONS INVOLVING THE FUEL SYSTEM IN A WELL VENTILATED AREA, WITH THE ENGINE SWITCHED OFF.

DO NOT REFUEL AND DO NOT PERFORM MAINTENANCE OPERATIONS WITH THE ENGINE RUNNING.

DO NOT SMOKE WHILE REFUELING OR IN PROXIMITY TO DANGEROUS FUMES. NEVER ALLOW THE FUEL TO COME INTO CONTACT WITH FLAMES, SPARKS OR HEAT SOURCES. TRY TO CAREFULLY AVOID FUEL SPILLAGE WHILE REFUELING. FUEL SPLASHES MAY IGNITE IF THEY COME INTO CONTACT WITH THE HOT ENGINE OR WITH THE EXHAUST SYSTEM SURFACES. IN CASE OF ACCIDENTAL FUEL SPILLAGE, MAKE SURE THAT THE FUEL HAS

COMPLETELY DRIED OUT OR EVAPORATED BEFORE STARTING THE VEHICLE.

AVOID THE FUEL COMING INTO CONTACT WITH YOUR SKIN AND AVOID INHALING THE FUMES EMITTED BY THE FUEL.

NEVER ATTEMPT TO TRANSFER FUEL FROM ONE CONTAINER TO ANOTHER USING YOUR MOUTH AS TRANSFER MEANS. USE A MANUAL PUMP OR A SIMILAR TOOL.

IMPORTANT

THE FUEL IS POISONOUS AND CARCINOGENIC AND CONTAINS CHEMICALS THAT CAUSE IMPAIRMENTS AND SEVERAL BIRTH PROBLEMS.

IF YOU ACCIDENTALLY SPILL FUEL ON THE SKIN OR CLOTHES, CLEAN IMMEDIATELY WITH WATER AND SOAP AND CHANGE CLOTHES.

IF THE FUEL ACCIDENTALLY COMES INTO CONTACT WITH YOUR EYES, RINSE THEM WITH PLENTY OF WATER AND IMMEDIATELY SEEK MEDICAL ATTENTION. IF YOU ACCIDENTALLY INGEST FUEL, DO NOT INDUCE VOMITING. DRINK A LARGE AMOUNT OF MILK OR WATER AND CONTACT A DOCTOR AS SOON AS POSSIBLE.

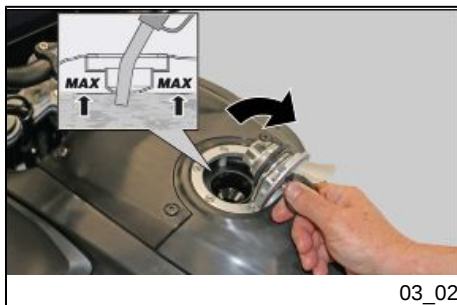
IF YOUR VEHICLE TIPS OVER, IT WILL LOSE FUEL, WHICH IS EXTREMELY INFLAMMABLE. FLAMES AND SPARKS MAY RESULT IN SERIOUS FIRES THAT WILL NOT ONLY DESTROY YOUR VEHICLE, BUT WILL ALSO BE EXTREMELY DANGEROUS FOR THE SURROUNDING VEHICLES AND BUILDINGS, WHICH MAY CAUSE VERY SERIOUS INJURIES AND EVEN DEATH.

ALWAYS KEEP THE FUEL AWAY FROM CHILDREN. DISPOSE OF CORRECTLY; DO NOT DRAIN IT INTO THE SEWAGE SYSTEM OR AT THE BATHROOM.

Characteristic

Fuel

Unleaded gasoline E10 (95 R.O.N.)



03_02

To refuel:

- Lift the cover (1).
- Introduce the key (2) in the fuel tank cap lock
- Turn the key clockwise, pull and open the fuel filler cap (3).

IMPORTANT



ALWAYS USE PETROL WITH A MAXIMUM OF 10% BIOETHANOL CONTENT (E10).

DO NOT USE PETROL WITH AN ETHANOL CONTENT HIGHER THAN 10%; THIS USE COULD DAMAGE THE FUEL SYSTEM COMPONENTS AND/OR COMPROMISE ENGINE PERFORMANCE.

Characteristic

Fuel tank capacity (including reserve)

4.49 US gal (3.74 UK gal; 17 l)

Fuel tank reserve capacity

0.92 +/- 0.13 US gal (0.77 +/- 0.11 UK gal; 3.5 +/- 0.5 l)

NOTE

NEVER COMPLETELY TOP-UP THE RESERVOIR; THE MAXIMUM FUEL LEVEL MUST REMAIN BELOW THE LOWER EDGE OF THE SUMP (SEE FIGURE).

- Refill.

IMPORTANT

**DO NOT ADD ADDITIVES OR ANY OTHER SUBSTANCES TO THE FUEL.
WHEN USING A FUNNEL, ENSURE THAT IT IS PERFECTLY CLEAN.**



**DURING REFUELLING AVOID FUEL LEAKAGES, WHICH MAY CAUSE DAMAGE
TO THINGS OR PERSONS AND FIRE HAZARD.**

**DURING REFUELLING, AVOID THE USE OF ELECTRIC DEVICES AND/OR MO-
BILE PHONES, BECAUSE FUEL VAPOURS MAY CAUSE DAMAGE TO OBJECTS
AND/OR PERSONAL INJURIES.**

After refuelling:

- The cap can only be closed if the key (2) is inserted.
- Once the key (2) is inserted, press the cap to close it again.
- Remove the key (2).
- Close the cover (1).



MAKE SURE THE CAP IS TIGHTLY CLOSED.



03_03

Rear shock absorbers adjustment (03_03, 03_04, 03_05)

The shock absorber for both 'V100 Mandello' and 'V100 Mandello S' is equipped with an external adjuster (1) for spring pre-load adjustment.

NOTE

IT IS POSSIBLE TO VARY THE PRE-LOAD OF THE SHOCK ABSORBER DEPENDING ON THE LOAD ON THE VEHICLE (PASSENGER OR HEAVY LOAD).

IMPORTANT

DO NOT FORCE THE ROTATION OF THE ADJUSTMENT SCREW BEYOND THE LIMIT STOP IN BOTH DIRECTIONS, IN ORDER TO PREVENT ANY DAMAGE.



03_04



03_05

On the upper part of the shock absorber, only for "V100 Mandello", there is an adjuster (2) to adjust the hydraulic braking in rebound. Shock absorber settings on the 'V100 Mandello S', on the other hand, are made electronically and can be adjusted through the instrument cluster. For further information please refer to the "ADVANCED FUNCTIONS" section of the "VEHICLE" chapter.

IMPORTANT

DO NOT FORCE THE ROTATION OF THE ADJUSTMENT SCREW BEYOND THE LIMIT STOP IN BOTH DIRECTIONS, IN ORDER TO PREVENT ANY DAMAGE.

Spring pre-load

By adjusting the spring pre-load, the seat of the spring itself is moved. Carrying out the adjustment, you can decrease or increase the stiffness of the spring and therefore lower or raise the height of the rear of the vehicle. The spring pre-load is essential for the function performed by the rear shock absorbers. If the spring pre-load is not adjusted correctly, no other adjustment will be effective to obtain good shock absorber performance.

Rebound braking

Rebound braking controls the energy absorption when the shock absorber is in the rebound phase. In other words, rebound braking adjusts the speed at which the shock absorber returns to the normal position after having been compressed.



SET SPRING PRE-LOADING AND SHOCK ABSORBER REBOUND DAMPING ACCORDING TO THE VEHICLE USE CONDITIONS.

IF THE SPRING PRE-LOADING IS INCREASED, IT IS NECESSARY TO INCREASE THE REBOUND DAMPING ACCORDINGLY TO AVOID SUDDEN JERKS WHEN RIDING.

IMPORTANT

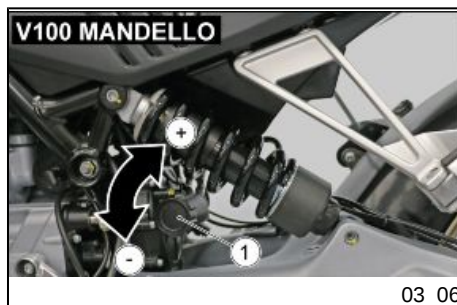
ALWAYS OBSERVE THE RECOMMENDED ADJUSTMENT RANGE.

FOR THE CORRECT SETTING PARAMETERS, READ THE FOLLOWING PARAGRAPH "SETTING THE REAR SHOCK ABSORBER" CAREFULLY.

IF NECESSARY, CONTACT AN OFFICIAL Moto Guzzi DEALER.

Setting rear shock absorbers (03_06, 03_07, 03_08)

V 100 MANDELLO



Spring pre-load adjustment

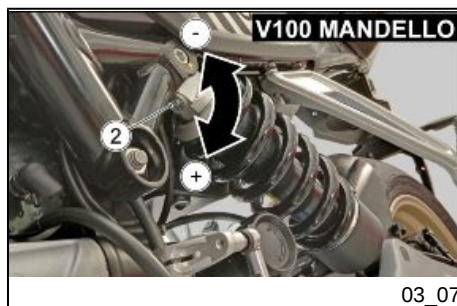
To adjust the spring pre-load, turn the adjuster knob (1) clockwise to increase the pre-load, or anticlockwise to decrease it.

IMPORTANT

DO NOT FORCE THE ROTATION OF THE ADJUSTMENT SCREW BEYOND THE LIMIT STOP IN BOTH DIRECTIONS, IN ORDER TO PREVENT ANY DAMAGE.

NOTE

AS THE PRELOAD INCREASES THE SPRING LENGTH WILL DECREASE, VICE VERSA IF THE PRELOAD DECREASES THE SPRING LENGTH WILL INCREASE.



Rebound braking adjustment

To adjust the rebound (return) braking, use a flat-head screwdriver to turn the adjuster (2) at the upper part of the shock absorber.

Turn the adjuster clockwise to increase braking, or anti-clockwise to decrease it.

IMPORTANT

DO NOT FORCE THE ROTATION OF THE ADJUSTMENT SCREW BEYOND THE LIMIT STOP IN BOTH DIRECTIONS, IN ORDER TO PREVENT ANY DAMAGE.

Follow the instructions in the tables below for the optimal setting of the vehicle according to the conditions of use.

RECOMMENDED SETTING V100 MANDELLO

TYPE OF ADJUSTMENT	RIDER ONLY	RIDER + BAGS AND TOP CASE OR RIDER + PASSENGER	RIDER + PASSENGER + BAGS AND TOP CASE
PRELOAD (KNOB) - FROM FULLY OPEN (**) CLOSE (*)	1 Click	22 Clicks	26 Clicks
HYDRAULIC BRAKING (ADJUSTER) - FROM COMPLETELY CLOSED (*) OPEN (**)	2 turns	1 a turn	1 a turn

(*) = clockwise

(**) = anticlockwise

V 100 MANDELLO S



Spring pre-load adjustment

To adjust the spring pre-load, turn the adjuster knob (1) clockwise to increase the pre-load, or anticlockwise to decrease it.

IMPORTANT

DO NOT FORCE THE ROTATION OF THE ADJUSTMENT SCREW BEYOND THE LIMIT STOP IN BOTH DIRECTIONS, IN ORDER TO PREVENT ANY DAMAGE.

NOTE

AS THE PRELOAD INCREASES THE SPRING LENGTH WILL DECREASE, VICE VERSA IF THE PRELOAD DECREASES THE SPRING LENGTH WILL INCREASE.

RECOMMENDED SETTING V100 MANDELLO S

TYPE OF ADJUSTMENT	RIDER ONLY	RIDER + BAGS AND TOP CASE OR RIDER + PASSENGER	RIDER + PASSENGER + BAGS AND TOP CASE
PRELOAD (KNOB) - FROM FULLY OPEN (**) CLOSE (*)	4 turns	12 turns	16 turns

"SPORT" Setting:

- MGCS mode: A1 - Dynamic

"ROAD" Setting:

- MGCS mode: A2 - Comfort

"TOUR" setting:

- MGCS mode: A1 - Dynamic

"RAIN" setting:

- MGCS mode: A2 - Comfort

The preload of the rear shock absorber is a function of the load on the vehicle, NOT the 'Riding Mode' used. Therefore, always refer to the 'RECOMMENDED SETTING' table above when adjusting preload.



ALL MODES CAN BE EDITED BY THE USER AND IT IS ALWAYS POSSIBLE TO RETURN EACH MODE TO THE FACTORY SETTINGS, AS EXPLAINED IN THE "ADVANCED FUNCTIONS" PARAGRAPH.

IF YOU WANT TO CHANGE THE FACTORY SETTINGS, TEST THE VEHICLE REPEATEDLY UNTIL THE OPTIMUM ADJUSTMENT IS OBTAINED.

IF NECESSARY, CONTACT AN Official Moto Guzzi Dealer.



03_09

Front Fork Adjustment (03_09, 03_10, 03_11, 03_12, 03_13, 03_14)

Operating the front brake lever, press the handlebar repeatedly to send the fork fully down. The shock absorber should compress and extend smoothly with no signs of oil leakage on the stanchions.

Check the tightening of all the elements and the correct operation of the front and rear suspension joints.

IMPORTANT

TO HAVE THE FRONT FORK OIL AND OIL SEALS REPLACED, CONTACT AN Official Moto Guzzi Dealer.

V 100 MANDELLO



03_10

The front suspension consists of a hydraulic fork connected to the headstock by means of two plates.

The right stem of the fork has an upper nut (2) for adjusting the spring pre-load and an upper adjustment screw (1) for adjusting the hydraulic braking in rebound.



DO NOT FORCE THE ROTATION OF THE ADJUSTMENT SCREW BEYOND THE LIMIT STOP IN BOTH DIRECTIONS, IN ORDER TO PREVENT ANY DAMAGE.

WHEN SPRING PRE-LOAD IS INCREASED, REBOUND DAMPING MUST ALSO BE INCREASED TO PREVENT EXCESSIVE SUSPENSION KICKBACK WHEN RIDING.

The standard front fork setting is adjusted to suit most high and low speed riding conditions, whether the vehicle is partially or fully loaded.

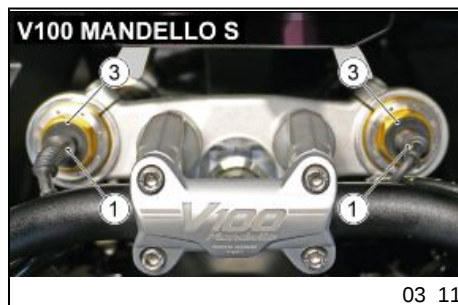
However, the setting can be modified for specific needs according to vehicle use.

IMPORTANT

FOR THE CORRECT SETTING PARAMETERS, READ THE PARAGRAPH "SETTING THE FRONT FORK" CAREFULLY.

IF NECESSARY, CONTACT AN Official Moto Guzzi Dealer.

V 100 MANDELLO S



- Spring pre-loading is adjusted by the manufacturer to suit all types of riding; therefore, even if possible, it is strongly forbidden to change the setting.



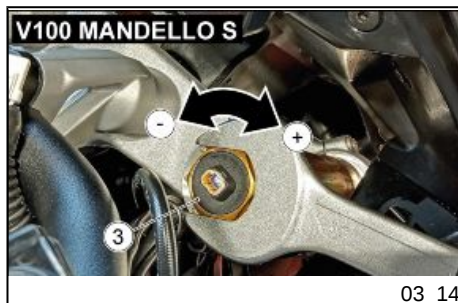
- To adjust the spring pre-load, it is necessary to disconnect the connector (1) from the stem cap, so that the wiring harness is not twisted during adjustment.



TO AVOID DAMAGING THE CONNECTOR, PRESS THE TAB (2) ON THE INDICATED POINT AND THEN CAREFULLY REMOVE THE CONNECTOR.



PAY SPECIFIC ATTENTION WHEN DISCONNECTING THE CONNECTORS, TO AVOID DAMAGING THEM, WHICH WOULD COMPROMISE THE OPERATION OF THE VEHICLE.



- Using an adjustable wrench, turn the adjustment nut (3) clockwise to increase the pre-load, or anti-clockwise to decrease it.
- Repeat the adjustment operations for the second stem, taking care to adjust them both equally.



SET THE SPRING PRE-LOADING AND THE EXTENSION HYDRAULIC BRAKING OF THE FRONT FORK ACCORDING TO THE VEHICLE USE CONDITIONS.

BY INCREASING THE SPRING PRE-LOAD, THE CONTROL PARAMETERS OF THE FRONT FORK MUST BE ADJUSTED (BY INCREASING THEIR VALUES) TO AVOID UNEXPECTED JOLTS WHILE DRIVING.

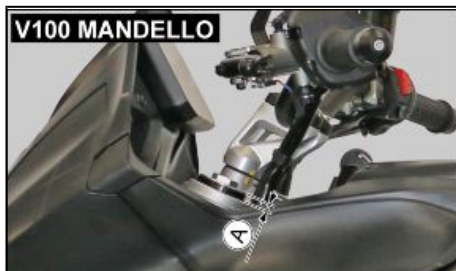
- Fork settings for the "V 100 Mandello S" are made electronically; these settings can be altered via the instrument cluster. For further information please refer to the "ADVANCED FUNCTIONS" section of the "VEHICLE" chapter.

Front fork settings (03_15, 03_16, 03_17, 03_18)

V 100 MANDELLO



TO COUNT THE NUMBER OF CLICKS AND/OR REVOLUTIONS OF ADJUSTMENT SETTINGS ALWAYS START FROM THE MOST RIGID SETTING (WHOLE CLOCKWISE ROTATION OF THE SETTING).



03_16

RECOMMENDED SETTING

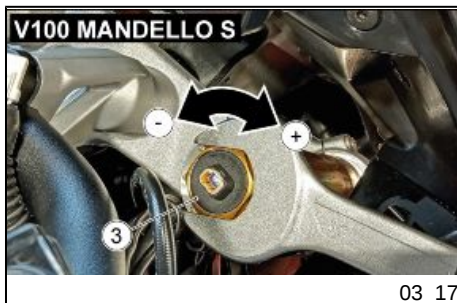
TYPE OF ADJUSTMENT	RIDER ONLY	RIDER + BAGS AND TOP CASE OR RIDER + PASSENGER	RIDER + PASSENGER + BAGS AND TOP CASE
PRE-LOAD (NUT) - FROM COMPLETELY OPEN (**) CLOSE (*)	6 turns	6 turns	6 turns
HYDRAULIC BRAKING (ADJUSTER) - FROM COMPLETELY CLOSED (*) OPEN (**)	6 clicks	6 clicks	6 clicks
STANCHION PROTRUSION (A) (***) FROM TOP YOKE (EXCLUDING COVER)	1 notch (0.20 in - 5 mm)	1 notch (0.20 in - 5 mm)	1 notch (0.20 in - 5 mm)

(*) - Clockwise

(**) - Anticlockwise

(***) - this type of adjustment may only be made by an **Authorised Moto Guzzi Dealer**.

V 100 MANDELLO S



The factory settings of the MGCS system are as follows:

"SPORT" setting:

- Spring pre-load (3): From fully open, 8 turns clockwise
- MGCS mode: A1 - Dynamic
- Stanchion protrusion (A) (***): 1 notch (0.16 in - 4 mm)

"ROAD" SETTING:

- Spring pre-load (3): From fully open, 8 turns clockwise
- MGCS mode: A2 - Comfort
- Stanchion protrusion (A) (***): 1 notch (0.16 in - 4 mm)

"TOURING" SETTING:

- Spring pre-load (3): From fully open, 8 turns clockwise
- MGCS mode: A1 - Dynamic
- Stanchion protrusion (A) (***): 1 notch (0.16 in - 4 mm)

"RAIN" setting:

- Spring pre-load (3): From fully open, 8 turns clockwise
- MGCS mode: A2 - Comfort
- Stanchion protrusion (A) (***): 1 notch (0.16 in - 4 mm)

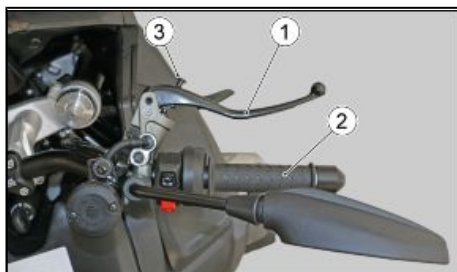
(***) - this type of adjustment may only be made by an **Authorised Moto Guzzi Dealer**.



ALL MODES CAN BE EDITED BY THE USER AND IT IS ALWAYS POSSIBLE TO RETURN EACH MODE TO THE FACTORY SETTINGS, AS EXPLAINED IN THE "ADVANCED FUNCTIONS" PARAGRAPH.

IF YOU WANT TO CHANGE THE FACTORY SETTINGS, TEST THE VEHICLE REPEATEDLY UNTIL THE OPTIMUM ADJUSTMENT IS OBTAINED.

IF NECESSARY, CONTACT AN Official Moto Guzzi Dealer.



03_19

Front brake lever adjustment (03_19)

It is possible to adjust the distance between the end of the lever (1) and the grip (2), turning the adjuster (3).

- Push the control lever (1) forwards and turn the adjuster (3) until the lever (1) is at the desired distance.
- Turning the adjuster clockwise, the lever (1) moves away from the grip (2).

IMPORTANT

IF THE FRONT BRAKE LEVER MUST BE REMOVED, CHECKED AND CHANGED BY AN Official Moto Guzzi Dealership



03_20

Rear brake pedal adjustment (03_20)

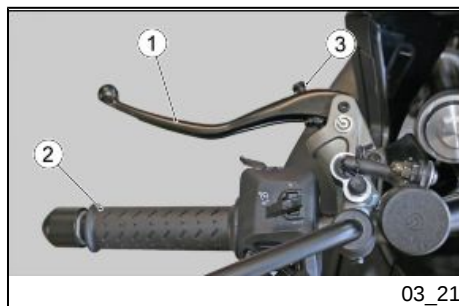
The control levers are positioned ergonomically when the vehicle is being assembled.

if necessary, it is possible to customise the position of the levers.

- Rest the vehicle on its stand.
- Partially undo the screw (1).
- Turn the cam (2) finding the best position for the pedal (3).
- Tighten the screw (1) and check the cam is stable in position.

IMPORTANT

TO ADJUST THE BRAKE LEVER CLEARANCE, CONTACT AN Official Moto Guzzi Dealer.



03_21

Clutch lever adjustment (03_21)

It is possible to adjust the distance between the end of the lever (1) and the grip (2), turning the adjuster (3).

- Push the control lever (1) forwards and turn the adjuster (3) until the lever (1) is at the desired distance.
- Turning the adjuster clockwise, the lever (1) moves away from the grip (2).

IMPORTANT

THE CLUTCH LEVER MUST BE REMOVED, CHECKED AND CHANGED BY AN Official Moto Guzzi Dealership



IF ANOMALIES AND/OR MALFUNCTIONS ARE EXPERIENCED IN THE CLUTCH CONTROL, CONTACT AN OFFICIAL Moto Guzzi DEALER

Running-In

Running in is essential to ensure the durability of the vehicle. During the first 932 mi (1500 km), observe the following rules to ensure the reliability and performance of the vehicle throughout its lifetime:

- Avoid full throttle starts and hard acceleration;
- Avoid exceeding 4500 rpm (rpm);
- Avoid hard or prolonged braking;
- Do not ride for prolonged periods at sustained high speed; preferably ride the motorcycle on varied routes with frequent, gentle acceleration and deceleration;
- Ride prudently to gradually gain familiarity with the motorcycle, testing progressively higher throttle apertures only as you gain confidence.

IMPORTANT

THE FULL PERFORMANCE OF THE VEHICLE IS ONLY AVAILABLE AFTER THE SERVICE AT THE END OF THE RUNNING IN PERIOD.



TO PREVENT THE RISK OF INJURY TO YOURSELF OR OTHERS AND/OR DAMAGE TO THE VEHICLE, TAKE THE YOUR MOTORCYCLE TO AN AUTHORISED Moto Guzzi DEALER AT THE SPECIFIED MILEAGE INTERVALS TO HAVE THE CHECKS LISTED IN THE "SCHEDULED MAINTENANCE TABLE" CARRIED OUT.

Starting the engine (03_22, 03_23, 03_24)

This vehicle is extremely powerful and must be used carefully and driven with caution and respect for its power and potential.

Do not place objects inside the top fairing (between the handlebar and the instrument cluster), as this may impede the movements of the handlebar and obstruct visibility of the instruments.



EXHAUST FUMES CONTAIN CARBON MONOXIDE, AN EXTREMELY HARMFUL SUBSTANCE IF INHALED.

NEVER START THE ENGINE IN A CLOSED OR INSUFFICIENTLY VENTILATED SPACE.

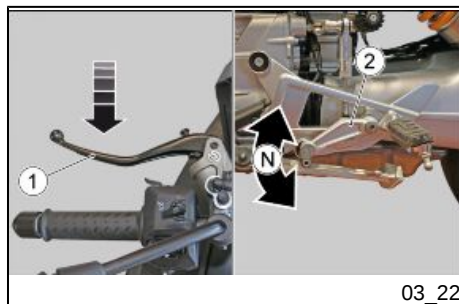


FAILURE TO OBSERVE THIS WARNING COULD LEAD TO UNCONSCIOUSNESS AND EVEN DEATH DUE TO SUFFOCATION.

IMPORTANT

WITH THE SIDE STAND LOWERED, THE ENGINE MAY ONLY BE STARTED WITH THE GEARBOX IN NEUTRAL. IF YOU ATTEMPT TO ENGAGE THE GEAR, THE ENGINE WILL STOP.

WITH THE SIDE STAND RETRACTED, THE ENGINE MAY BE STARTED WITH THE GEARBOX IN NEUTRAL OR WITH THE GEAR ENGAGED AND THE CLUTCH LEVER OPERATED.



- Get on the motorcycle, assuming the correct driving posture.
- Make sure that the side stand has been fully retracted.
- Operate the front or rear brake (or both).
- Operate the clutch lever (1) and make sure that the transmission (2) is in neutral.



- Turn the ignition key (3) to "ON".

At this stage:

- The starting screen will be displayed on the digital display for about 2 seconds and then the screen with the standard parameters will appear.
- All the indicator lights on the dashboard will come on for about 2 seconds.
- Press the starter button (4) once only.
- With the engine running as usual, all current parameters will be shown on the display.



IF THE LOW FUEL WARNING LIGHT ON THE DASHBOARD TURNS ON, REFUEL THE VEHICLE AT ONCE.



INTENSE USE/ON THE TRACK IN RESERVE CAN DAMAGE THE ENGINE.



ON NEW VEHICLES, THE GEAR SHIFT THRESHOLD IS SET TO 5200 RPM. RAISE THE THRESHOLD GRADUALLY UNTIL YOU HAVE BECOME FAMILIAR WITH THE VEHICLE AND THE RUN-IN HAS BEEN COMPLETED.



AFTER A FEW SECONDS FROM THE ENGINE START-UP, THE START-UP BUTTON WILL FUNCTION AS RIDING MODE CHANGE BUTTON.



IF THE GENERAL WARNING INDICATOR LIGHT ON THE INSTRUMENT PANEL LIGHTS UP, IT MEANS THAT THE CONTROL UNIT HAS ENCOUNTERED A FAULT, THEREFORE IT IS NECESSARY TO CONTACT AN Authorized Moto Guzzi Dealer.



DO NOT SET OFF SUDDENLY WHEN THE ENGINE IS COLD. RIDE AT LOW SPEED FOR SEVERAL KILOMETRES. THIS WILL ALLOW THE ENGINE TO WARM UP AND REDUCE POLLUTING EMISSIONS AND FUEL CONSUMPTION.

Moving off / riding (03_25, 03_26, 03_27)

IMPORTANT

THE ECU INSTALLED ON THIS MOTORCYCLE COMPENSATES FOR INCREASED ELECTRIC POWER CONSUMPTION BY TEMPORARILY RAISING THE IDLE SPEED; VARIATIONS IN ENGINE SPEED WITHIN THIS RANGE ARE THEREFORE NORMAL.



IF THE LOW FUEL WARNING LIGHT ON THE DASHBOARD TURNS ON, REFUEL THE VEHICLE AT ONCE.

WARNING

IF THE MOTORCYCLE TURNS OFF ACCIDENTALLY THE ECU ALLOWS A RESTART WITHIN THE NEXT 5 SECONDS. ONCE THIS PERIOD OF TIME HAS PASSED THE ECU WILL PREVENT STARTING FOR ANOTHER 3 SECONDS AND ONLY THEN WILL IT BE POSSIBLE TO START THE MOTORCYCLE.

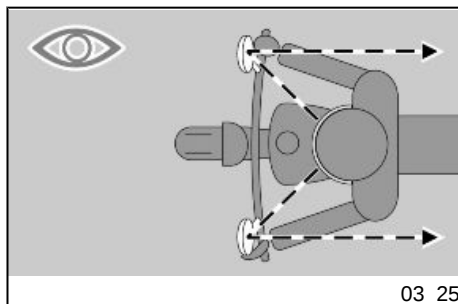
IMPORTANT

WHEN TRAVELLING WITHOUT PASSENGERS, MAKE SURE THE PASSENGER FOOTRESTS ARE FOLDED UP.

IMPORTANT

PASSENGERS MUST BE SUITABLY INSTRUCTED ON HOW TO BEHAVE TO PREVENT DANGEROUS SITUATIONS WHEN RIDING.

BEFORE SETTING OFF, MAKE SURE THE STAND HAS BEEN COMPLETELY RETRACTED TO ITS POSITION.



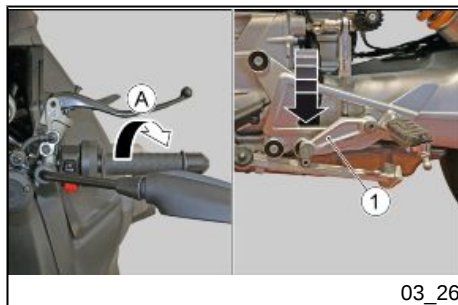
03_25

To start:

- Turn on the engine.
- Adjust the inclination of the rear-view mirrors to ensure proper visibility.

IMPORTANT

WITH THE VEHICLE AT STANDSTILL, PRACTICE USING THE REAR-VIEW MIRRORS. THE MIRRORS ARE CONVEX, SO OBJECTS MAY SEEM FARTHER AWAY THAN THEY REALLY ARE. THESE MIRRORS OFFER A WIDE-ANGLE VIEW AND ONLY EXPERIENCE HELPS YOU JUDGE THE DISTANCE SEPARATING YOU AND THE VEHICLE BEHIND.

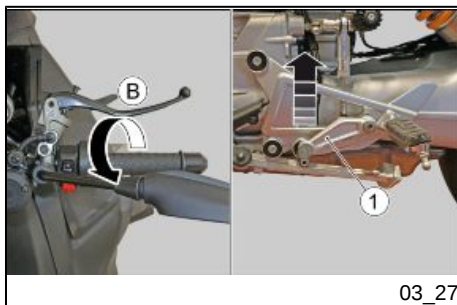


03_26

- With a closed throttle grip (Pos. A) and the engine idling, pull the clutch lever.
- Push the gearbox lever (1) downward to select the first gear.
- Release the clutch lever (activated during start-up).

IMPORTANT

WHEN TURNING OFF THE VEHICLE, DO NOT RELEASE THE CLUTCH TOO QUICKLY OR SUDDENLY, AS THIS COULD CAUSE THE ENGINE TO STOP OR THE VEHICLE TO REAR UP ON THE BACK WHEEL. DO NOT ACCELERATE SUDDENLY WHEN RELEASING THE CLUTCH FOR THE SAME REASON.



03_27

- Slowly release the clutch lever and accelerate by slightly turning the throttle grip at the same time (Pos. B).

The vehicle starts moving forward.

- Ride at moderate speed for the first kilometres/miles to allow the engine to warm up.
- Speed up by gradually turning the throttle grip (Pos. B) without exceeding the recommended revs.



RIDE IN THE CORRECT GEAR AND SPEED FOR THE CONDITIONS.

DO NOT OPERATE THE THROTTLE GRIP ABRUPTLY.

- Release the throttle grip (Pos. A), operate the clutch lever and lift the gear control lever (1), release the clutch lever and accelerate.
- Repeat the last two operations and engage a higher gear.



IT IS SUGGESTED TO GO UP TO A HIGHER GEAR THAN TO A LOWER GEAR:

- When riding downhill and under braking, using engine compression to increase braking power.
- When going uphill, when the engaged gear does not suit the speed (high gear, moderate speed) and the number of engine revs falls.

IMPORTANT

DOWN-SHIFT ONE GEAR AT A TIME; WHEN SHIFTING TO A LOWER GEAR, DOWN-SHIFTING MORE THAN ONE GEAR AT A TIME COULD OVER-REV THE ENGINE; THAT IS, THE MAXIMUM RPM VALUE PERMITTED FOR THE ENGINE COULD BE EXCEEDED.

- Release the throttle grip (Pos. A).
- If necessary, pull the brake levers gently and reduce speed.
- Operate the clutch lever and lower the gearshift lever (1) to engage a lower gear.
- Release the brake levers when it is operated.
- Release the clutch lever and accelerate moderately.



IN ORDER TO AVOID CLUTCH OVERHEATING, SHUT THE ENGINE OFF AS SOON AS POSSIBLE ONCE THE VEHICLE HAS STOPPED AND AT THE SAME TIME THE GEAR IS ENGAGED AND THE CLUTCH LEVER OPERATED.



OPERATE THE FRONT OR THE REAR BRAKE ONLY SIGNIFICANTLY REDUCES THE BRAKING FORCE OF THE VEHICLE.

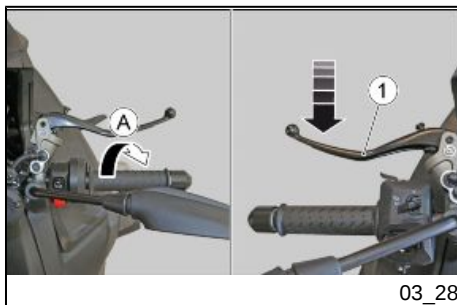
WHEN STOPPING UPHILL, DECELERATE COMPLETELY AND ONLY USE THE BRAKES TO MAINTAIN THE VEHICLE IN THE STOPPED POSITION.

USING THE ENGINE TO KEEP THE MOTORCYCLE STOPPED COULD CAUSE THE CLUTCH TO OVERHEAT. BRAKING CONTINUOUSLY WHEN DRIVING DOWNHILL COULD CAUSE THE BRAKE PADS TO OVERHEAT, WHICH REDUCES BRAKING AND LIMITS BRAKING POWER.

IT IS RECOMMENDED TO USE THE ENGINE COMPRESSION, DOWNSHIFTING AND USING BOTH BRAKES INTERMITTENTLY.

WHEN DRIVING DOWNHILL, NEVER RIDE WITH THE ENGINE TURNED OFF.

WHEN RIDING ON WET SURFACES OR SURFACES WITH POOR GRIP (SNOW, ICE, MUD, ETC.) USE MODERATE SPEED, AVOID SUDDEN BRAKING OR MANOEUVRES THAT MAY CAUSE TO A LOSS OF TRACTION AND POSSIBLY TO A FALL OR CRASH.



Stopping the engine (03_28)

- Release the throttle grip (Pos. A), brake gradually and simultaneously down-shift to slow down.

Once the speed is reduced, before stopping the vehicle:

- Operate the clutch lever (1) so that engine does not shut off.

When the vehicle is at standstill:

- Set the gear-shift lever to neutral ("N" symbol shown on the digital display and the green "N" indicator light on).
- Release the clutch lever (1).
- While at a temporary halt, keep at least one of the vehicle brakes held.

IMPORTANT



WHENEVER POSSIBLE, AVOID ROUGH BRAKING, SUDDEN DECELERATION AND BRAKING IN EXCESS.

Parking

It is very important to select an adequate parking spot, in compliance with road signals and the guidelines described below.

IMPORTANT

PARK ON SAFE AND LEVEL GROUND TO PREVENT THE VEHICLE FROM FALLING.

DO NOT LEAN THE VEHICLE AGAINST A WALL OR LAY IT ON THE GROUND.

ENSURE THAT THE VEHICLE AND, IN PARTICULAR, PARTS OF THE VEHICLE WHICH MAY BECOME HOT (ENGINE, EXHAUST SYSTEM, BRAKE DISCS) ARE

NOT A HAZARD TO PERSONS OR CHILDREN. DO NOT LEAVE YOUR VEHICLE UNATTENDED WITH THE ENGINE ON OR THE KEY IN THE IGNITION SWITCH.

IMPORTANT

IF THE VEHICLE FALLS OR IS ON A STEEP INCLINE FUEL CAN LEAK.

FUEL USED TO DRIVE INTERNAL COMBUSTION ENGINES IS HIGHLY FLAMMABLE AND CAN BECOME EXPLOSIVE UNDER CERTAIN CONDITIONS.



DO NOT REST THE RIDER OR PASSENGER WEIGHT ON THE SIDE STAND.

Catalytic silencer

The vehicle is equipped a silencer with a "platinum - palladium - rhodium three-way" metal catalytic converter.

This device oxidises the CO (carbon monoxide) producing carbon dioxide, and the HC (unburned hydrocarbons) producing water vapour and CO₂ and reduces NO_x (nitrogen oxide) producing oxygen and nitrogen present in the exhaust fumes.



DO NOT PARK THE VEHICLE NEAR DRY BRUSHWOOD OR IN PLACES EASILY ACCESSIBLE BY CHILDREN BECAUSE THE CATALYTIC CONVERTER REACHES HIGH TEMPERATURES DURING VEHICLE OPERATION; FOR THIS REASON, PAY UTMOST ATTENTION AND DO NOT TOUCH IT UNTIL IT HAS COMPLETELY COOLED DOWN.



DO NOT USE LEADED PETROL AS IT CAUSES IRREPARABLE DAMAGE TO THE CATALYTIC CONVERTER.

Vehicle owners are warned that the law may prohibit the following:

- the removal of any device or element belonging to a new vehicle or any other action by anyone leading to render it non-operating, if not for maintenance, repair or replacement reasons, in order to control noise emission before the sale or delivery of the vehicle to the ultimate buyer or while it is used;
- using the vehicle after that device or element has been removed or rendered non-operating.

Check the exhaust silencer and the silencer pipes, ensuring there are no signs of penetrative corrosion and that the exhaust system works properly.

If the noise produced by the exhaust system increases, get immediately in touch with the Dealer or with a Moto Guzzi authorised repair shop.

NOTE

DO NOT TAMPER WITH THE EXHAUST SYSTEM.

Stand (03_29, 03_30)



THE SIDE STAND MUST ROTATE FREELY. IF NECESSARY GREASE THE JOINT.



03_29

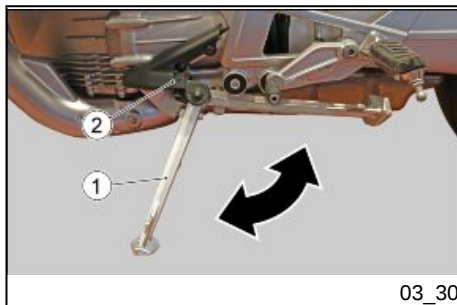
SIDE STAND

If the stand has been folded up for any manoeuvre (for example, when the vehicle is in motion), place the vehicle on the stand again as follows:

- Grasp the left grip and put the right hand on the upper rear part of the vehicle.
- Push the side stand with your right foot to fully extend the stand.
- Lean the vehicle until the stand touches the ground.
- Turn the handlebar fully leftwards.

IMPORTANT

MAKE SURE THE VEHICLE IS STABLE.



03_30

A safety switch (2) is installed on the side stand (1) to inhibit ignition or to stop the engine when a gear is engaged and the side stand (1) is lowered.

CHECK THAT THERE IS NO DIRT IN THE SWITCH AREA. IF POSSIBLE, CLEAN THE AREA AND CHECK THE LIGHT ON THE DASHBOARD WITH THE STAND DOWN.

IF WITH THE STAND OPEN, THE SIDE STAND WARNING LIGHT REMAINS OFF DESPITE CLEANING, PLEASE CONTACT an Authorised Moto Guzzi Dealer.

Suggestion to prevent theft

IMPORTANT

WHEN USING A DISC LOCKING DEVICE, PAY UTMOST ATTENTION TO REMOVE IT BEFORE RIDING. FAILURE TO OBSERVE THIS WARNING MAY CAUSE SERIOUS DAMAGE TO THE BRAKING SYSTEM AND ACCIDENTS WITH CONSEQUENT PHYSICAL INJURIES OR EVEN DEATH.

NEVER leave the ignition key in the lock and always use the steering lock. Park the vehicle in a safe place such as a garage or a place with guards. Whenever possible, use an additional anti-theft device. Make sure all vehicle documents are in order and the road tax paid. Write down your personal details and telephone number on this page to help identifying the owner in case of vehicle retrieval after a theft.

SURNAME:

FIRST NAME:

ADDRESS:

TELEPHONE NO.:

WARNING

IN MANY CASES, STOLEN VEHICLES CAN BE IDENTIFIED BY DATA IN THE USE / MAINTENANCE BOOKLET

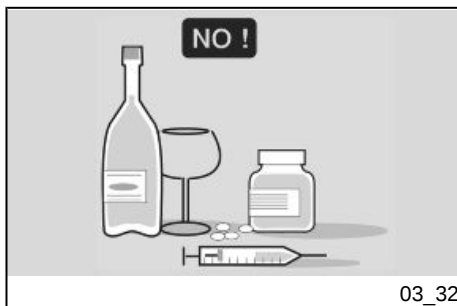


03_31

Safe riding (03_31, 03_32, 03_33, 03_34, 03_35, 03_36, 03_37, 03_38, 03_39, 03_40, 03_41, 03_42, 03_43, 03_44, 03_45, 03_46, 03_47, 03_48, 03_49, 03_50, 03_51, 03_52, 03_53)

MAIN SAFETY RULES

The following instructions refer to the normal use of your vehicle and must be carefully observed. Observing these rules will allow you to increase your safety and that of the persons around you as well as maximise the life and usefulness of your vehicle. Two-wheeled vehicles obviously do not offer some of the protections normally provided on cars, so it is essential to wear suitable protective clothing. In particular, when riding the vehicle, always wear a helmet, gloves, protective goggles and a heavy jacket, sturdy footwear and durable long trousers. However, it must always be kept in mind that even the best clothing and helmet cannot protect you in the event of a fall or collision with another vehicle. These features protect you best from scratches and abrasions, but their protective function is minimal in the event of an impact. Make sure you meet all the requirements of the local law, including driver's license, minimum age, adequate preparation, insurance, taxes, vehicle registration, license plate, etc. As



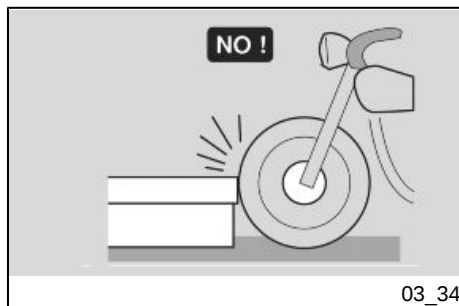
03_32

soon as you receive the vehicle, familiarise yourself by practising in areas with low traffic intensity. Avoid driving the vehicle in heavy traffic areas until you have gained a good experience and total safety in riding. Although this vehicle is approved for use on motorways and ring roads, it is recommended that you do not travel on these roads at high speed until you have become very familiar with the vehicle and have achieved a high degree of skill in use. A new vehicle must undergo an accurate break-in. Before starting the engine, make sure the brake, clutch, drive and throttle controls are working properly and check that the oil and fuel level is adequate. The exhaust system, brakes and some vehicle components can get very hot while riding. Do not touch these components. Consumption of certain drugs and medicines, illegal or prescribed, as well as alcohol greatly increases the risk of accidents. Do not drive while under the influence of alcohol or drugs, whether they are illegal or licensed by a doctor. Make sure that you are in good physical condition before driving your vehicle. Do not drive in conditions of particular fatigue or tiredness. Alcohol, drugs and fatigue are the main cause of accidents. Many accidents are due to the driver's inexperience. Do not ride your vehicle until you have received training from a recognized organization such as the Motorcycle Safety Foundation. Always keep in mind that driving a two-wheeled vehicle, while easy and fun, is very different from driving a car. Not necessarily an experienced car driver is able to safely drive a two-wheeled vehicle. NEVER lend the vehicle to other people if you are not sure that they are experts and in possession of a driving license. Respect all the rules of the road traffic code. In particular, pay attention to all warning, traffic regulation and information signs.

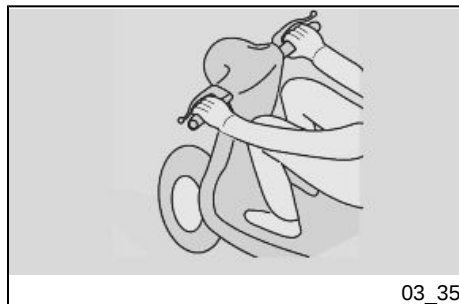


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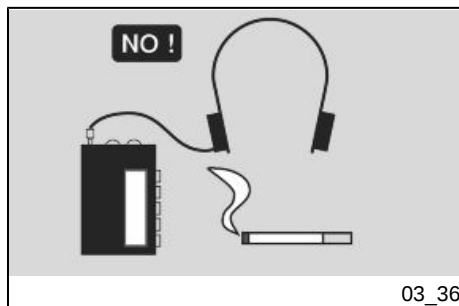
Avoid showing off with dangerous manoeuvres (e.g. rear up). In particular, respect the speed limits and remember that the conditions of the road surface vary according to the weather conditions; wet and icy roads are dangerous especially at high speed. Car drivers often find it difficult to see two-wheeled vehicles, so always give priority to cars even in cases where according to the road traffic code you would have priority. Before changing lanes, always check that the road is clear behind you. Do not rely solely on the rear view mirror as it could underestimate the distance and speed of a vehicle or even not see it at all. Avoid obstacles that could damage the vehicle or lead to loss of control of the vehicle. Do not drive close to vehicles like trucks or cars, in front of you and do not remain in their lane to increase speed. In the event of an accident, motorcycles, scooters and mopeds do not offer the same level of protection as cars. Especially the legs are exposed to the risk of injury. The additional installation of leg pads can concretely increase the risk of injury and the severity in the event of an accident. Do not install leg pads available on the spare parts and accessories mar-



03_34



03_35

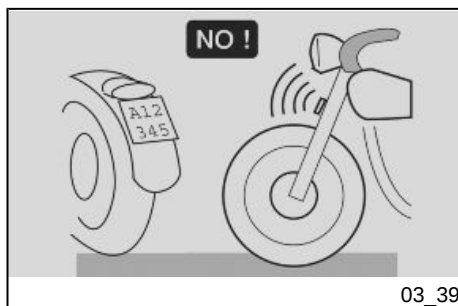
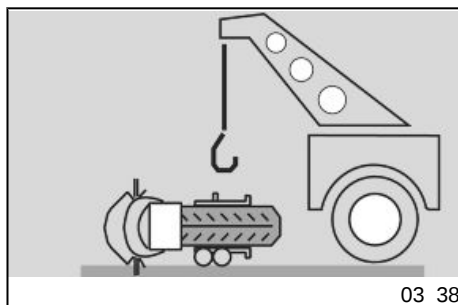
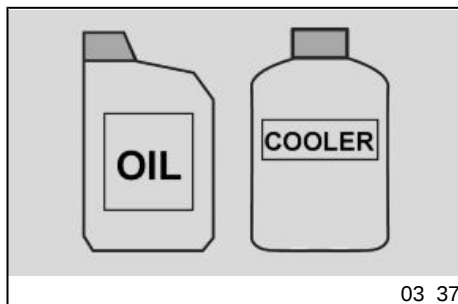


03_36

ket. Failure to follow these instructions can result in serious injury or even death. Always ride with both hands on the handlebars and feet on the foot pegs. Never change gear without using the clutch if your vehicle is equipped with one. Do not operate the shift lever or other controls abruptly and suddenly. Misuse of this type could damage the internal components of the vehicle resulting in seizure, loss of control, accidents and serious or even fatal injuries. Remain seated while driving. Do not stand up or try to stretch yourself while riding the vehicle. If you need to rest, pull over at a safe point on the road. It is very important for your safety to always drive with the utmost attention. Pay attention to your actions, do not get distracted by other vehicles, persons and/or things near the road, etc. Do not smoke, eat, drink, read, etc. while driving the vehicle. If you need to consult a road map, pull over and carry out the operation in complete safety. Use only the fuels and lubricants specified for the vehicle listed in the RECOMMENDED PRODUCTS TABLE; regularly check the coolant, fuel and oil levels. If the throttle remains locked, it could result in a collision with another vehicle or a fall. If the throttle remains locked, stop the engine with the engine stop switch located on the right handlebar. Do not try to restart the engine until the throttle has been repaired and is fully functional. Failure to observe this warning can result in loss of control resulting in serious injury or even death.

IMPORTANT

IN THE EVENT OF AN EMERGENCY CAUSING THE THROTTLE TO LOCK, ALWAYS STOP THE ENGINE USING THE ENGINE STOP SWITCH LOCATED NEAR THE THROTTLE GRIP ON THE RIGHT SEMI-HANDLEBAR. DO NOT OPERATE THE VEHICLE IF THE THROTTLE DOES NOT AUTOMATICALLY RETURN COMPLETELY TO IDLE ONCE THE THROTTLE GRIP IS RELEASED. FOR REPAIRS, PLEASE CONTACT YOUR LOCAL Moto Guzzi Dealer. FAILURE TO OBSERVE THIS WARNING COULD LEAD TO SERIOUS ACCIDENT WITH CONSEQUENT INJURY OR EVEN DEATH.



If you have been involved in an accident with your vehicle, make sure that the control levers, pipes, cables, brake system or other vital components have not been damaged. If your vehicle has been involved in an accident, immediately contact your local **Moto Guzzi** dealer who has the necessary equipment and knowledge to check for any damage that could compromise your safety.

Your **Moto Guzzi** dealer can help you to solve all safety problems under the condition that all mechanical malfunctions are reported to him.

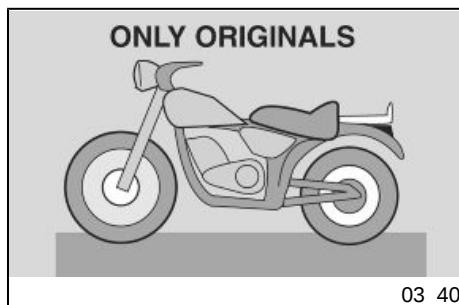
Do not use the damaged vehicle. A damaged vehicle could lose stability or have other problems that could increase the risk of an accident resulting in serious injury or even death.

Do not try to change the position, angle or colour of your license plate. The license plate shall not be covered in any way, not even with transparent plastic. Do not modify the safety features of your vehicle, especially components such as turn indicators, rear view mirrors, lights or horns.

Any modification to the vehicle will result in the cancellation of the warranty.

Do not modify the engine in order to increase its power. This could cause irreparable damage to the engine as well as compromise its performance and vehicle handling resulting in a fall and serious or even fatal injuries.

To repair your vehicle, use only original **Moto Guzzi** accessories or **Moto Guzzi** approved accessories. The use of aftermarket accessories and parts can seriously affect



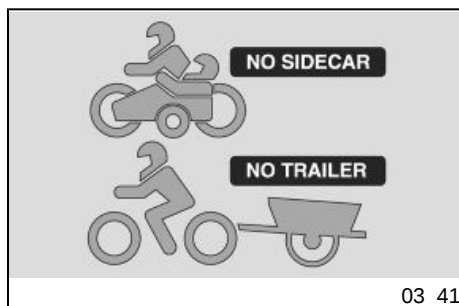
the safety of your vehicle as well as its performance and use. Any changes that affect performance or safety void the entire warranty.

Tampering with the emission and noise control system is prohibited by law and can be severely punished.

For some jurisdictions, vehicle confiscation is also provided.

This vehicle is not intended to be equipped with a sidecar or to be used to tow trailers or other vehicles.

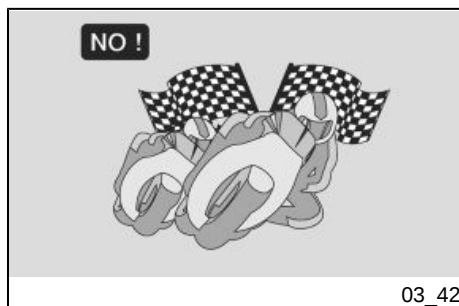
Moto Guzzi does not produce sidecars or trailers and can therefore not predict the consequences that these accessories may have on the handling and stability of the vehicle: however, it is warned that these effects could be negative and the guarantee is not recognised for any damage to components of the vehicle due to the use of accessories of this type.



Never use your vehicle to compete with other vehicles.

Brake using both the front and rear brakes. Using only one brake in the event of hard braking could cause the vehicle to skid or cause the driver to lose control of the vehicle.

When driving downhill, take advantage of the engine's braking action by selecting the same gear or a lower gear than those normally used uphill. Use the front and rear brake with moderation.



Always travel at an adequate speed and avoid unnecessary sudden acceleration not only for greater safety, but also to reduce fuel consumption and increase the life of the vehicle.

When using the vehicle on wet or slippery surfaces, always bear in mind that grip decreases significantly. In these conditions, always manoeuvre the vehicle slowly and with the utmost caution.

Accelerating, braking, or sudden turns can cause you to lose control of the vehicle. When grip is reduced, accelerate and slow down using the engine braking force as much as possible. Avoid braking hard and too fast.

Slowly open and close the throttle to avoid spinning or skidding the rear wheel.

Slow down and drive carefully on uneven road surfaces.



Avoid accelerating by turning the throttle completely except in cases of absolute necessity such as overtaking.

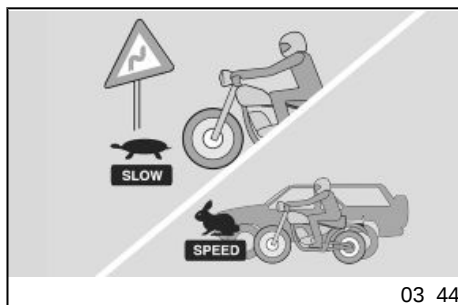
Do not let the engine work "under stress", that means too low a number of revolutions. Downshift to a lower gear. Do not run the engine excessively. Observe the red line on the speedometer.

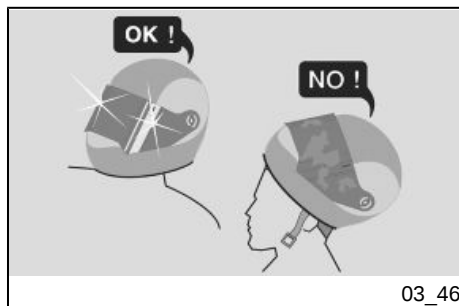
Remember that excessively aggressive cornering can cause the tyre to lose grip on the tyre sidewall resulting in a fall and serious injury or even death.

Always respect the speed limits imposed by law taking into consideration that it is not always possible to drive up to the indicated speed limit in all road conditions. Slowing down slightly increases your safety considerably in all road conditions.

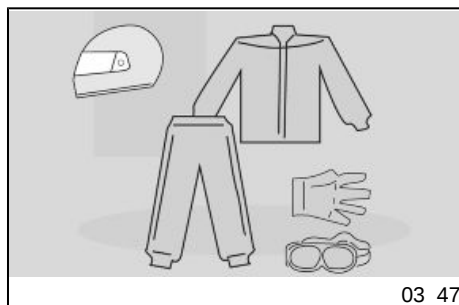
Do not ride the vehicle off-road.

Do not tamper with the exhaust or emissions control system of your vehicle as this is not only a form of environmental protection, but could incur criminal penalties.

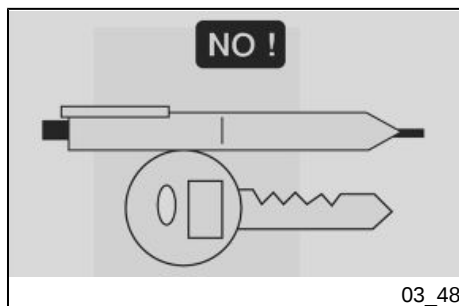




03_46



03_47



03_48

CLOTHING

Before riding the vehicle, make sure your clothing is in suitable condition. Wear the helmet correctly making sure that the visor or goggles are clean.

Research and experience have shown that drivers of other vehicles often do not see the vehicles or motorcyclists. To make yourself more visible to other drivers, wear reflective clothing such as light-refracting vests or other types of clothing with reflective areas sewn onto the jacket, pants and gloves. Be especially careful of trucks and cars arriving from the oncoming lane as they may turn left right in front of you. Many traffic accidents are caused by a driver on the opposite side turning left without considering the vehicle in front.

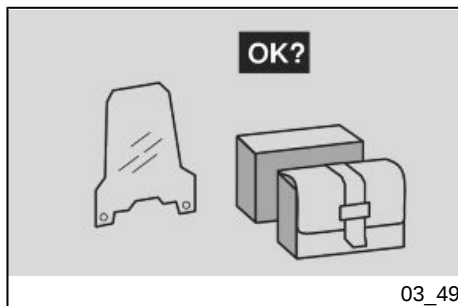
Inevitably, the driver in front of you will swear only having seen you when, after turning, being in your lane. Drive carefully!

Wear appropriate protective clothes, preferably light-coloured and/or in reflective material. This way you are more visible to other drivers, considerably reducing the risk of being hit and enjoying greater protection in the event of an accident.

Always wear a helmet.

Clothing should be particularly tight and closed at the wrists and ankles. Cords, belts and ties shall not hang out; prevent these and other objects from interfering with driving as they can get entangled with moving parts or driving mechanisms.

Do not keep sharp objects in your pocket which could be dangerous in case of a fall, e.g. keys, lead pencil, etc. Make sure that the passenger also respects these recommendations.



ACCESSORIES

The vehicle owner is responsible for the selection, installation and use of all accessories.

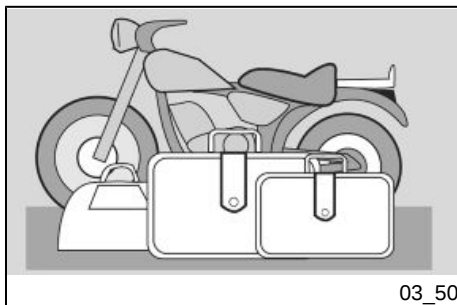
Installing inappropriate accessories or overloading the vehicle could make the vehicle unstable and lead to accidents resulting in serious injury or even death. Windscreens are particularly dangerous in the event of an accident as if they break they could injure or cut the rider. In case of doubt about any accessory to be installed or any load to be transported, we recommend you to consult your local **Moto Guzzi** dealer in advance.

Do not install accessories which cover or limit the operation of the horns or lights, which limit the suspension travel and the steering angle, which hinder the operation of the controls and reduce the ground clearance and lean angle when cornering .

Do not use accessories that hinder access to the controls as they may increase the reaction time in case of an emergency.

The fairings and windscreens mounted on the vehicle can give rise to aerodynamic forces such as to compromise the stability of the vehicle while riding, particularly at high speeds.

Make sure that everything that is mounted on the vehicle is securely fixed, cannot come off and lock wheels, forks, etc. Do not install electrical accessories and do not modify the vehicle electrical system. Any component that could cause an overload or electrical fault could result in the vehicle being stopped immediately, the lights or beeps turned off or dimmed, or malfunction of other safety accessories. Use only original **Moto Guzzi** accessories.



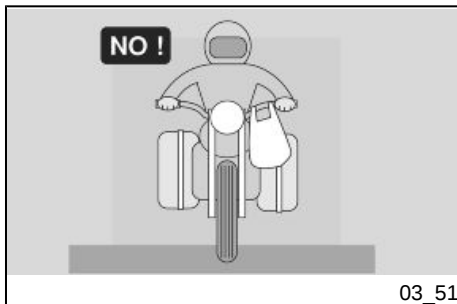
03_50

LOADING

Do not overload the vehicle.

Secure bags or luggage as close to the vehicle's centre of gravity as possible and distribute the load as evenly as possible between the two sides to minimise imbalance. Always remember that loads tend to loosen during travel and therefore often check the safety of your load.

Do not let objects hang from the vehicle's semi-handlebars, mudguards or forks as they may impair the handling of the vehicle and prevent you from avoiding an accident. Failure to observe this warning can lead to a fall resulting in serious injury or even death.



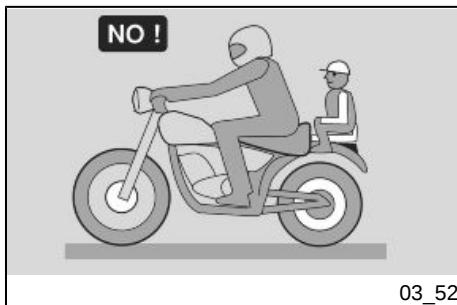
03_51

Do not ride with the helmet hanging from the strap as it could easily get caught on the wheels, mudguard or forks causing a fall and result in serious injury or even death.

Only carry a passenger if the vehicle is equipped with passenger footrests, passenger grips and saddle.

When carrying a passenger, always remember that the vehicle has reduced handling, that the brakes are less effective and that the centre of gravity is higher and further back.

This favours the detachment of the front wheel from the ground especially during acceleration. Therefore, avoid abrupt acceleration and braking. Many accidents are caused by inexperienced riders carrying a passenger. Remember to carry out the riding manoeuvres with greater tolerance in case of excessive passenger weight.



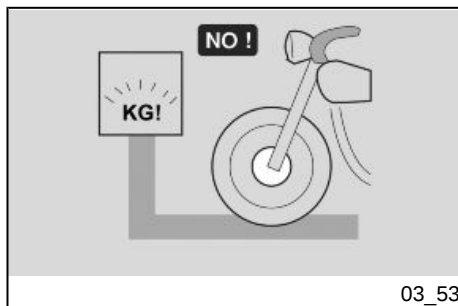
03_52

Avoid sudden and excessive acceleration. Always slowdown in advance and calculate longer braking and manoeuvring distances. Failure to observe these instructions could result in the vehicle overturning or other accidents resulting in serious injury or even death.

Never transport items that are not anchored and make sure that everything transported on the vehicle is carefully secured.

Do not carry luggage that protrudes from the luggage rack or that covers the lights, horn and headlamps.

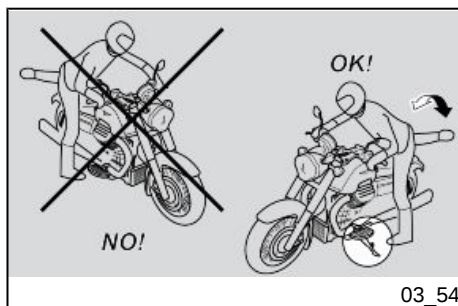
Do not carry animals or children on the glove box or luggage rack.



03_53

Never exceed the maximum load indicated for each bag.

Overloading your vehicle can seriously reduce its stability and handling leading to a fall resulting in serious injury or even death.



03_54

Basic safety rules (03_54, 03_55, 03_56, 03_57, 03_58)

The following recommendations should receive your maximum attention, because they are provided to increase your safety, and decrease damage to people, things and vehicles, in the case of a fall of the rider or passenger from the vehicle and/or from the fall or overturning of the vehicle.

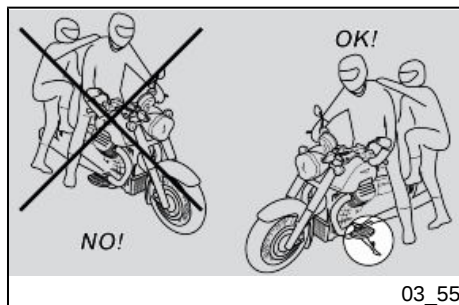
Mounting and dismounting the vehicle should always be performed with total freedom of movement and with the hands free of all objects. (i.e.- objects, helmet, gloves, or glasses).

Mount and dismount only on the left side of the vehicle, and only with the side stand lowered.

The stand is designed to support the weight of the vehicle and a small additional weight, which does not include the rider and passenger.

Mounting into driving position, with the side stand in place, is permitted only to prevent the possibility of the vehicle falling or overturn, and does not indicate the possibility for the rider and passenger's weight to be placed on the side stand.

During mounting and dismounting the vehicle's weight can cause a loss of balance, with consequent loss of equilibrium and the possibility of falling or overturning.



IMPORTANT

THE RIDER SHOULD ALWAYS BE THE FIRST TO MOUNT AND THE LAST TO DISMOUNT FROM THE VEHICLE, AND SHOULD CONTROL THE STABILITY AND EQUILIBRIUM OF THE VEHICLE WHILE THE PASSENGER IS MOUNTING AND DISMOUNTING

In any case, the passenger should mount and dismount the vehicle using caution to avoid causing the vehicle or the rider to lose balance.

IMPORTANT

THE RIDER TO INSTRUCT THE PASSENGER ABOUT THE PROPER WAY TO MOUNT AND DISMOUNT FROM THE VEHICLE.

THE VEHICLE INCLUDES PASSENGER FOOTRESTS WHICH SHOULD BE USED DURING MOUNTING AND DISMOUNTING. THE PASSENGER SHOULD ALWAYS USE THE LEFT FOOTREST FOR MOUNTING AND DISMOUNTING FROM THE VEHICLE.

DO NOT DISMOUNT OR EVEN ATTEMPT TO DISMOUNT BY JUMPING OR STRETCHING OUT YOUR LEG IN ORDER TO TOUCH THE GROUND. IN BOTH CASES THE STABILITY AND EQUILIBRIUM OF THE VEHICLE COULD BE COMPROMISED.

IMPORTANT

BAGGAGE OR OBJECTS ATTACHED TO THE REAR PART OF THE VEHICLE CAN CREATE AN OBSTACLE DURING MOUNTING AND DISMOUNTING FROM THE VEHICLE.

IN ALL CASES, THINK AHEAD AND MOVE YOUR RIGHT LEG CAREFULLY, AS IT WILL HAVE TO AVOID AND CLEAR THE REAR PART OF THE VEHICLE (INCLUDING BAGGAGE AND THE TAIL FAIRING) WITHOUT CAUSING LOSS OF BALANCE.

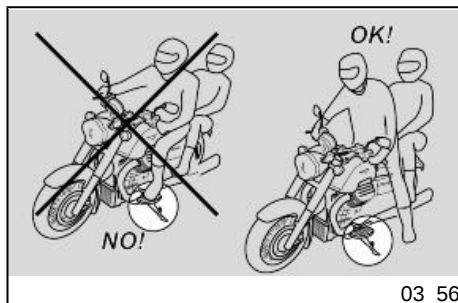
(if applicable)

NOTE

BEFORE DEPARTURE, MAKE SURE THAT THE CASES ARE CLOSED AND CORRECTLY FASTENED TO THE VEHICLE.



THE CASES MUST NOT BE USED AS SUPPORT AND THE HANDLES MUST NOT BE USED AS ANCHOR POINTS FOR THE PASSENGER.

**MOUNTING**

- Grip the handlebar properly and mount the vehicle without placing your weight upon the side stand.

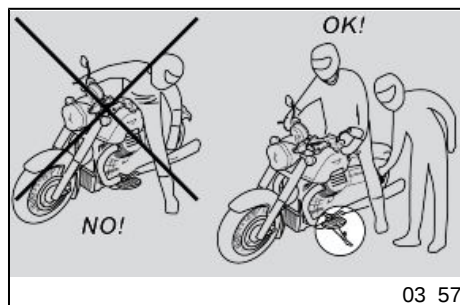
IMPORTANT

IN THE CASE THAT YOU ARE NOT ABLE TO REST BOTH FEET ON THE GROUND, PUT THE RIGHT FOOT ON THE GROUND, (IN THE CASE OF A LOSS OF BALANCE THE LEFT SIDE IS "PROTECTED" BY THE SIDE STAND) AND KEEP YOUR LEFT FOOT READY TO BE POSITIONED.

- Place both feet on the ground and straighten the vehicle into the driving position, always maintaining its equilibrium.

IMPORTANT

THE RIDER SHOULD NOT OPEN OR TRY TO OPEN THE PASSENGER FOOTRESTS FROM THE RIDER'S SEAT, AS IT COULD COMPROMISE THE STABILITY AND EQUILIBRIUM OF THE VEHICLE.



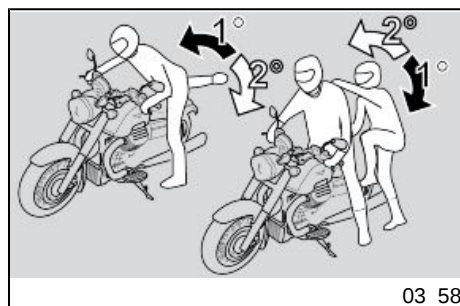
- Have the passenger open the two passenger foot pegs.
- Show the passenger how to mount the vehicle.
- Use your left foot to push on the side stand and make it fully return to its position.

DISMOUNTING

- Select an appropriate parking spot.
- Stop the vehicle.



MAKE SURE THAT THE GROUND ON WHICH THE MOTORCYCLE IS PARKED IS FIRM, EVEN AND FREE OF OBSTACLES.



- Use the heel of your left foot to completely open the side stand.

IMPORTANT

IN THE CASE THAT YOU ARE NOT ABLE TO REST BOTH FEET ON THE GROUND, PUT THE RIGHT FOOT ON THE GROUND, (IN THE CASE OF A LOSS OF BALANCE THE LEFT SIDE IS "PROTECTED" BY THE SIDE STAND) AND KEEP YOUR LEFT FOOT READY TO BE POSITIONED.

- Place both feet on the ground and keep the vehicle balanced in the driving position.
- Show the passenger how to dismount from the vehicle.

RISK OF FALLING OR OVERTURNING.

**MAKE SURE THAT THE PASSENGER HAS DISMOUNTED FROM THE VEHICLE.
DO NOT PLACE YOUR WEIGHT UPON THE SIDE STAND.**

- Lean the motorcycle until the stand touches the ground.
- Correctly grip the handlebar, and dismount from the vehicle.
- Turn the handlebar completely to the left.
- Place the passenger footrest in its place.

IMPORTANT

MAKE SURE THE VEHICLE IS STABLE.

V100 Mandello - V100 Mandello S



Chap. 04
Maintenance

Foreword

In general terms, scheduled maintenance can be carried out by the owner; however, some operations may require specific tools and technical training. For periodic maintenance, servicing or technical advice, contact an **Official Moto Guzzi Dealer** for prompt and accurate service.

IMPORTANT

THIS VEHICLE HAS BEEN PROGRAMMED TO INDICATE IN REAL TIME ANY ACTIVATION FAILURE STORED IN THE ELECTRONIC CONTROL UNIT MEMORY.

ANY TIME THE IGNITION SWITCH IS SET TO "ON", THE "GENERAL ALARM" WARNING LIGHT ON THE INSTRUMENT PANEL TURNS ON FOR THREE SECONDS. IF THE WARNING LIGHT TURNS OFF, IT MEANS THAT THERE ARE NO MALFUNCTIONS.

IMPORTANT

CARRY OUT MAINTENANCE OPERATIONS AT HALF THE INTERVALS SPECIFIED IF THE VEHICLE IS USED IN PARTICULAR RAINY OR DUSTY CONDITIONS, OFF ROAD OR FOR TRACK USE.



Engine oil level (04_01)



CORRECT VEHICLE LUBRICATION IS A VERY DELICATE OPERATION FROM THE SAFETY POINT OF VIEW. PAY ATTENTION TO KEEP THE LUBRICANT AT THE RIGHT LEVEL AND TO USE A GOOD QUALITY OIL OF THE CORRECT TYPE FOR YOUR VEHICLE OTHERWISE, THERE COULD BE ENGINE GRIPPING WHICH CAN CAUSE SERIOUS ACCIDENT OR EVEN DEATH.



USE LATEX GLOVES FOR MAINTENANCE OPERATIONS THAT REQUIRE CONTACT WITH THE USED OIL. THE USE OF ENGINE OIL CAN CAUSE SKIN TUMOURS IF HANDLED LONG AND DAILY. CAREFULLY WASH YOUR HANDS WITH WATER AND SOAP AFTER USING USED ENGINE OIL.

KEEP OUT OF THE REACH OF CHILDREN.

DISPOSE OF OIL CORRECTLY.



PAY UTMOST ATTENTION WHEN PUTTING OIL IN YOUR VEHICLE NOT TO SPILL IT OUT.

IMMEDIATELY CLEAN ANY DROP OF SPILLED OIL AS THE OIL CAN COMPROMISE THE FINISHING OF YOUR VEHICLE. FURTHER, OIL MAKES TYRES EXTREMELY SLIPPERY AND THUS INCREASES THE RISK OF DANGEROUS ACCIDENTS AND SITUATIONS.

IN THE EVENT OF OIL LEAKAGE, DO NOT DRIVE YOUR VEHICLE. BEFORE USING THE VEHICLE, HAVE IT REPAIRED BY A Moto Guzzi Official Dealer.

IMPORTANT

IF A POP-UP APPEARS ON THE DISPLAY WITH THE MESSAGE "ALARM OIL PRESSURE" OR "ALARM OIL SENSOR" AND AT THE SAME TIME THE GENERAL WARNING ICON LIGHTS UP AFTER THE ENGINE HAS BEEN STARTED OR WHILE RIDING, THIS MEANS THAT THE OIL IS NOT BUILDING ENOUGH PRESSURE OR AN OIL PRESSURE SENSOR ANOMALY HAS BEEN DETECTED. IN BOTH CASES, STOP THE ENGINE IMMEDIATELY AND CONTACT AN Official Moto Guzzi Dealer. FAILURE TO FOLLOW THIS WARNING CAN LEAD TO ENGINE SEIZURE, WHICH CAN CAUSE SERIOUS ACCIDENTS, EVEN DEATH.

Engine oil level check (04_02, 04_03)

Check the engine oil level frequently.

NOTE

THE MAINTENANCE INTERVALS PRESCRIBED BY THE SCHEDULED MAINTENANCE TABLE MUST BE CONSIDERED AS A GENERAL GUIDE FOR USING THE VEHICLE IN NORMAL RUNNING CONDITIONS.

IT MAY BE NECESSARY TO REDUCE THE MAINTENANCE INTERVALS UNDER SOME PARTICULAR CONDITIONS. ESPECIALLY WHEN USED IN GEOGRAPHICAL LOCATIONS WITH ADVERSE CLIMATIC CONDITIONS, USE ON UNEVEN GROUND OR SEVERE INDIVIDUAL USE.

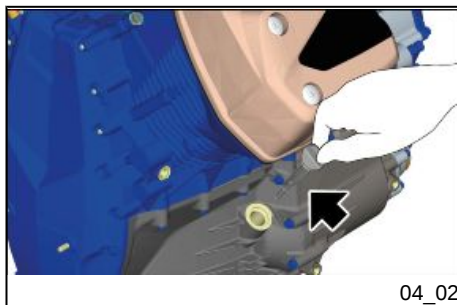


THE OIL LEVEL MUST BE CHECKED WHEN THE ENGINE IS WARM.

IMPORTANT

DO NOT LET THE ENGINE IDLE WITH THE VEHICLE AT A STANDSTILL TO WARM UP THE ENGINE AND OBTAIN THE OPERATING TEMPERATURE OF ENGINE OIL.

PREFERABLY CHECK THE OIL AFTER A JOURNEY OF AFTER TRAVELLING APPROXIMATELY 10 mi (15 km) IN EXTRA-URBAN CONDITIONS (ENOUGH TO WARM UP THE ENGINE OIL TO THE OPERATING TEMPERATURE).



- Shut off the engine and wait a few seconds;
- Keep the vehicle upright with both wheels on the ground;
- Make sure that the vehicle is on a level surface;
- Unscrew the oil filler cap with dipstick;



- Wipe the dipstick clean and put the dipstick and filler cap back into place **without tightening**;
- Remove the cap and dipstick again and check the engine oil level;
- The level is correct if it reaches the "**MAX**" level approximately. Otherwise top off the engine oil.

IMPORTANT

THE OIL LEVEL MUST NEVER DROP BELOW THE MINIMUM MARKING OR EXCEED THE MAXIMUM MARKING; AN OIL LEVEL NOT WITHIN THE MINIMUM AND MAXIMUM MARKINGS MAY CAUSE SEVERE ENGINE DAMAGE.

Engine Oil Top Off

IMPORTANT

IF IT IS NECESSARY TO TOP UP THE ENGINE OIL LEVEL, CONTACT AN official Moto Guzzi dealer.

Engine oil change

IMPORTANT

THE ENGINE OIL MUST BE CHECKED AND CHANGED BY AN Official Moto Guzzi Dealership

Replacement of engine oil filter

IMPORTANT

THE ENGINE OIL FILTER MUST BE CHECKED AND CHANGED BY AN Official Moto Guzzi Dealership

Bevel gear pair oil level

IMPORTANT

TO TOP-UP OR CHANGE THE OIL IN THE CARDAN SHAFT TRANSMISSION UNIT, CONTACT AN Official Moto Guzzi Dealer.

Tires (04_04, 04_05)

This vehicle is fitted with tubeless tyres (without inner tubes).

IMPORTANT

CHECK TYRE INFLATION PRESSURE REGULARLY AT AMBIENT TEMPERATURE. MEASUREMENTS MAY BE INCORRECT IF TYRES ARE WARM. CHECK PRESSURE MAINLY BEFORE AND AFTER LONG TRIPS. AN OVER-INFLATED TYRE WILL PROVIDE A HARSH RIDE AS SURFACE UNEVENNESS IS NOT

CUSHIONED AND IS SENT TO THE HANDLEBAR, THUS REDUCING GRIP AND ROAD HOLDING SPECIALLY WHEN CORNERING.

ON THE OTHER HAND, AN UNDER-INFLATED TYRE CAUSES THE CONTACT PATCH TO INCLUDE A LARGER PORTION OF THE TYRE SIDE WALLS. IF SO, THE TYRE MIGHT SLIP ON OR GET DETACHED FROM THE WHEEL RIM, RESULTING IN LOSS OF CONTROL OVER THE VEHICLE.

EVENTUALLY THE VEHICLE MIGHT SKID IN A BEND.

CHECK THE SURFACE CONDITION AND WEAR BECAUSE POOR TYRE CONDITION COULD COMPROMISE GRIP AND HANDLING OF THE VEHICLE.

SOME TYRE TYPES APPROVED FOR THIS VEHICLE FEATURE WEAR INDICATORS.

THERE ARE SEVERAL TYPES OF WEAR INDICATORS. CONSULT YOUR DEALER ON METHODS TO CHECK FOR WEAR.

CARRY OUT A VISUAL INSPECTION FOR TYRE WEAR AND TEAR, REPLACE TYRES WHEN WORN.

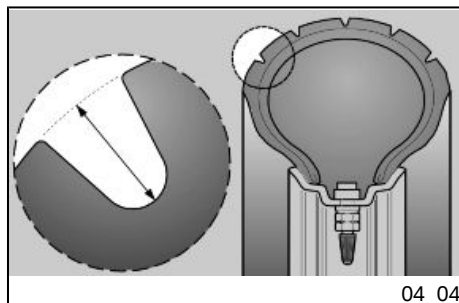
WHEN TYRES ARE OLD, THE MATERIAL MAY HARDEN AND NOT PROVIDE ADEQUATE ROAD HOLDING, EVEN IF TYRES ARE STILL WITHIN THE WEAR LIMIT. REPLACE TYRES IF THIS OCCURS. REPLACE THE TYRE IF IT IS WORN OR IF THERE IS A PUNCTURE LARGER THAN 0.197 in (5 mm) IN THE TREAD AREA.

WHEEL MUST BE BALANCED AFTER A TYRE IS MENDED.

USE ONLY TYRE SIZES INDICATED BY THE MANUFACTURER. DO NOT FIT TYRES WITH INNER TUBES ON RIMS FOR TUBELESS TYRES OR VICE VERSA. CHECK THAT THE INFLATION VALVES HAVE THEIR CAPS FITTED TO AVOID UNEXPECTED FLAT TYRES.

REPLACEMENT, REPAIR, MAINTENANCE AND BALANCING OPERATIONS ARE HIGHLY IMPORTANT AND SO THEY SHOULD BE CARRIED USING THE SPECIFIC TOOLS AND WITH ADEQUATE EXPERTISE. HAVE YOUR TYRES AND WHEELS SERVICED AT AN AUTHORISED DEALER OR A SPECIALISED TYRE WORKSHOP.

NEW TYRES MAY BE COATED WITH AN OILY FILM: RIDE WITH CAUTION DURING THE FIRST KILOMETRES. DO NOT APPLY UNSUITABLE LIQUIDS ON TYRES.



04_04

Minimum tread depth:

front and rear 0.079 in (2 mm) (USA 0.118 in - 3 mm) and however not below the values prescribed by the legislation in force in the country in which the vehicle is used.



04_05

(if applicable)

The vehicle is equipped with TPMS sensors (Tyre Pressure Measurement System) located on the inside of the rims near the inflation valves; they communicate the tyre pressure to the digital display via radio frequency.

A screen can be viewed on the digital display where the reference values and any warning signals (if active) are constantly visible.

Possible warnings are accompanied by the fixed lighting of the TPMS icon, visible both in the various driving modes and in the NAVI mode.

NOTE

WITH EACH KEY "ON", THE TPMS ICON WILL FLASH UNTIL THE SYSTEM DETECTS A VALID SIGNAL FROM BOTH SENSORS. THE FLASHING CAN LAST UP TO THREE MINUTES.

When replacing tires, pay close attention to the following information:

- The bead breaking of the tyre must take place at a distance of at least 90° from the inflation valve.
- The positioning of the levers for the removal of the tyre must be at a distance of at least 3.93 in (10 cm) from the inflation valve.

Spark plug removal

IMPORTANT

FOR REMOVAL, CHECK, AND REPLACEMENT OF THE SPARK PLUGS CONTACT AN OFFICIAL Moto Guzzi Dealer.

Air filter removal

IMPORTANT

TO REMOVE, CHECK AND REPLACE THE AIR FILTER, CONTACT AN Official Moto Guzzi Dealer.

Cooling fluid level

Do not use the vehicle if the coolant level is below the minimum marking.

IMPORTANT



COOLANT IS TOXIC IF INGESTED; CONTACT WITH YOUR EYES OR SKIN MAY CAUSE IRRITATION. IF THE FLUID GETS IN CONTACT WITH THE EYES OR SKIN, RINSE REPEATEDLY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE. IF SWALLOWED, INDUCE VOMITING, RINSE THE MOUTH AND

THROAT WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE IMMEDIATELY.

IMPORTANT



NEVER UNDO THE RADIATOR CAP WHEN THE ENGINE IS WARM, AS THE COOLANT IS PRESSURISED AND VERY HOT. CONTACT WITH SKIN OR CLOTHES MAY CAUSE SEVERE BURNS AND/OR INJURIES.



Check Coolant (04_06)

- Shut off the engine and wait until it cools off.
- Keep the vehicle upright with both wheels on a flat surface.
- Make sure, when looking behind the front fork on the right side of the vehicle, that the liquid level in the expansion tank is between the reference marks (1) "MAX" and (2) "MIN".
- If the level is below the 'MIN' level, top up immediately.



04_07

Top Off Coolant (04_07)

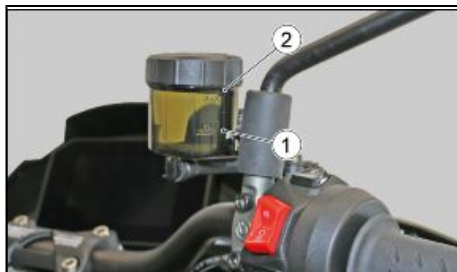
- With the engine switched off and cold, remove the cap from the expansion tank and add coolant until the level is between references (1) "**MAX**" and (2) "**MIN**".

WARNING

CARRY OUT THE CHECK AND TOP UP THE REFRIGERANT LIQUID WITH THE ENGINE SWITCHED OFF AND COLD.



IF IT IS NECESSARY TO REPLACE THE COOLANT, CONTACT AN Official Moto Guzzi Dealer.



04_08

Checking the brake fluid level (04_08, 04_09)

Front brake fluid check

- Keep the vehicle upright so that the fluid in the reservoir is at the same level as the plug.
- Check that the liquid in the tank is between reference marks (1) and (2).

(1): MIN = minimum level

(2): MAX = maximum level

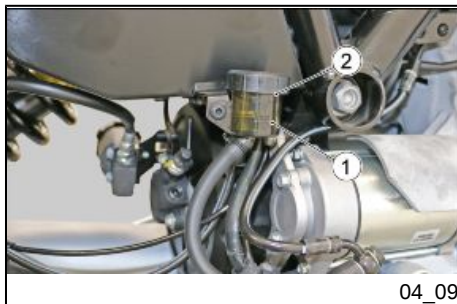
If the fluid does not reach the "**MIN**" reference mark:

- Check brake pads and brake discs for wear.

If the brake pads and/or brake discs do not have to be replaced, have the braking system checked at an **Official Moto Guzzi Dealership**.

IMPORTANT

FLUID LEVEL DECREASES GRADUALLY AS BRAKE PADS WEAR DOWN.



04_09

Rear brake fluid check

- Keep the vehicle upright so that the fluid in the reservoir is at the same level as the plug.
- Check that the liquid in the tank is between reference marks (1) and (2).

(1): **MIN** = minimum level

(2): **MAX** = maximum level

If the fluid does not reach the "**MIN**" reference mark:

- check brake pads and brake disc for wear.

If the brake pads and/or brake disc do not have to be replaced, have the braking system checked at an **Official Moto Guzzi Dealership**.

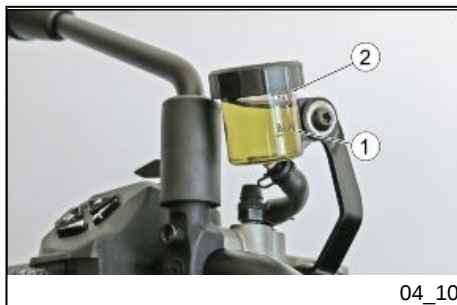
IMPORTANT

FLUID LEVEL DECREASES GRADUALLY AS BRAKE PADS WEAR DOWN.

Braking system fluid top up

IMPORTANT

FOR THE TOP-UP OF THE BRAKING SYSTEMS COOLANT, CONTACT AN Official Moto Guzzi Dealer.



04_10

Checking clutch fluid (04_10)

Clutch fluid level check

- Keep the vehicle upright so that the fluid in the reservoir is at the same level as the plug.
- Check that the liquid in the tank is between reference marks (1) and (2).

(1): MIN = minimum level

(2): MAX = maximum level

If the fluid does not reach the "MIN" mark, the clutch system must be checked by an **Official Moto Guzzi Dealer**.

Topping up clutch fluid

IMPORTANT

TO TOP-UP THE CLUTCH FLUID, CONTACT AN Official Moto Guzzi Dealer



04_11

Battery removal (04_11, 04_12, 04_13, 04_14)

- Make sure the ignition switch is set to "KEY OFF";
- Remove the rider saddle;
- Disconnect the connector (1) of the OBD2 socket;
- Remove the cable (2) of the GMP provision, moving it forward to release it from its support;



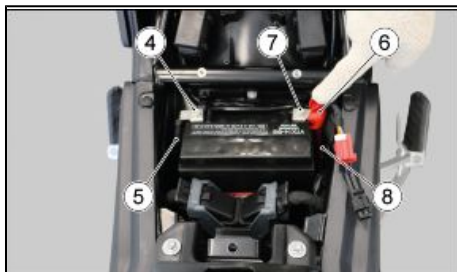
04_12

- Remove the two fixing screws (3);



04_13

- Release the plastic securing the battery from its mountings to the tank and remove it by bringing it toward the rear of the vehicle.



04_14

- Unscrew and remove the screw (4) from the negative terminal (-).
- Move the negative lead (5) aside.
- Move the protection cap (6), unscrew and remove the screw (7) from the positive terminal (+).
- Move the positive lead (8) aside.
- Grip the battery firmly and remove from its seat.
- Put the battery away on a level surface, in a cool and dry place.



CHECK THAT THE CABLE TERMINALS AND BATTERY LEADS ARE:

- **IN GOOD CONDITION (NOT CORRODED OR COVERED BY DEPOSITS);**

- COVERED BY NEUTRAL GREASE OR PETROLEUM JELLY.



REMOVING THE BATTERY RESETS THE DIGITAL CLOCK AND THE TRIP JOURNAL FUNCTIONS.

IMPORTANT



ONCE REMOVED, THE BATTERY MUST BE PUT AWAY IN A SAFE PLACE OUT OF THE REACH OF CHILDREN.

IMPORTANT

UPON REFITTING, CONNECT THE LEAD TO THE POSITIVE TERMINAL (+) FIRST AND AFTERWARDS THE LEAD TO THE NEGATIVE TERMINAL (-).

Electrolyte level check

WARNING

THIS VEHICLE IS FITTED WITH A MAINTENANCE-FREE BATTERY AND DOES NOT NEED ANY INTERVENTION, EXCEPT FOR SPORADIC CHECKS AND RECHARGE.

Charging the Battery

- Remove the battery.
- Get an adequate battery charger.
- Set the battery charger for the recharge type indicated.

- Connect the battery to the battery charger.

IMPORTANT

WHEN RECHARGING OR USING THE BATTERY, BE CAREFUL TO HAVE THE ROOM ADEQUATELY AIRED. DO NOT BREATHE GASES RELEASED WHEN THE BATTERY IS RECHARGING.

- Switch on the battery charger.

CHARGE MODES**Normal recharge**

- Electric current: 1,4 A
- Time: 5-10 hours

Quick charge

- Electric current: 6 A
- Time: 1 hours

Long periods of inactivity

If the vehicle is inactive longer than fifteen days, it is necessary to recharge the battery to avoid sulphation.

- Remove the battery and put it away in a cool and dry place.

In winter or when the vehicle is out of use for prolonged periods, check charge level frequently (about once a month) to prevent deterioration.

- Recharge it fully with an ordinary charge.

If the battery is still on the vehicle, disconnect the cables from the terminals.

Checking and cleaning terminals and leads

- Partially remove the battery from its housing.
- Check that the battery cable terminals and leads are in good conditions (not corroded or covered by deposits) and covered with neutral grease or petroleum jelly.

Fuses (04_15, 04_16, 04_17, 04_18)

IMPORTANT



DO NOT ATTEMPT TO REPAIR FAULTY FUSES.

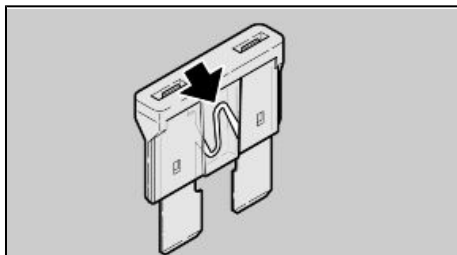
NEVER USE A FUSE THAT IS DIFFERENT THAN WHAT IS SPECIFIED TO PREVENT DAMAGES TO THE ELECTRICAL SYSTEM OR SHORT CIRCUITS, AND THE RISK OF FIRE.

NOTE

A FUSE THAT BLOWS FREQUENTLY MAY INDICATE A SHORT CIRCUIT OR OVERLOAD. IF THIS OCCURS, CONTACT AN Official Guzzi Dealer.



04_15



04_16

To check:

- Set the ignition switch to 'OFF' to avoid an accidental short circuit;
- Remove the passenger saddle;
- Remove the fuse box cover;
- Take out one fuse at a time and check if the filament is broken;
- Before replacing the fuse, find and solve, if possible, the reason that caused the problem;
- If the fuse is damaged, replace it with one of the same current rating.

NOTE

IF THE SPARE FUSE IS USED, REPLACE WITH ONE OF THE SAME TYPE IN THE CORRESPONDING FITTING.

MAIN FUSES

40A fuse	Charging the battery
30A fuse	Loads of the entire vehicle
spare fuses	

They are located under the tank, in front of the E.C.U. unit.

In the event of problems with the main fuses, DO NOT replace them but take the vehicle to an Official Moto Guzzi Dealer.



AUXILIARY FUSES (1)

A) 10A fuse	Rear position, horn, licence plate light
B) 5A fuse	Fog lights live positive lead (where provided)
C) 7.5A fuse	ECU key-on positive, ABS key-on positive, instrument panel key-on positive, RH light switch key-on positive, inertial platform key-on positive, stand key-on positive, TMPS key-on positive (if provided), rear radar key-on positive (if provided), main ignition relay

D) 7.5A fuse	Key-on power for smart EC key-on positive (if provided)
E) 7.5A fuse	GMP key-on positive (if provided), OBD2 key-on positive, anti-theft system positive
F) 7.5A fuse	Headlamp key-on positive
G) 3A fuse	USB 1 and 2 key-on positive (2 if provided)
Q) Spare fuses	

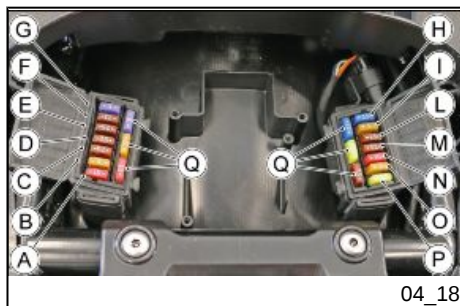
They are located on the tail fairing, under the passenger saddle

AUXILIARY FUSES (2)

H) 15A fuse	Power supply for: Fan relay, ECU, fuel pump relay, RH and LH lambda probe, RH and LH injectors, RH and LH coils, secondary air valve, urge valve
I) 5A fuse	Power supply for: anti-theft device provision, OBD2
L) 7.5A fuse	Fan power feed
M) 7.5A fuse	ECU permanent positive lead
N) fuse of 10A	MGCA aerodynamic protection power supply

O) 5A fuse	Instrument panel power supply (turn indicators)
P) 20A fuse	ABS power feed
Q) Spare fuses	

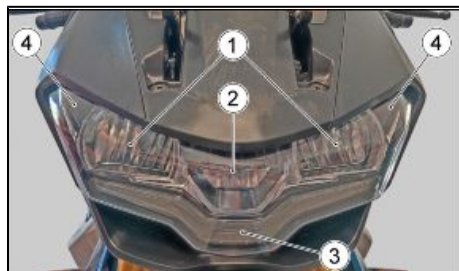
They are located on the tail fairing, under the passenger saddle



Front light group (04_19, 04_20, 04_21)

The headlamp unit uses LED light sources only, and consists of the following modules:

- two low beam headlight modules (1);
- one high beam headlight module (2);
- a DRL/running light module (with low beam light on) (3);
- two bending light modules (to assist rider in bends) (4).



04_19

NOTE

WHEN THE REAR WHEEL EXCEEDS THE SPEED OF 0.62 mph (1 km/h) (EVEN WITH THE ENGINE OFF AND THE KEY SET TO ON), THE HEADLAMPS WILL TURN ON AND WILL REMAIN ON FOR 30 SECONDS (FROM THE TIME WHEN THE REAR WHEEL STOPS MOVING).



04_20

The 'bending light' modules (4) are activated when driving in a curve where the vehicle reaches or exceeds an angle of 25 degrees and only with the low beam light on.

- When leaning into a right hand bend, the right hand LED bending assist light illuminates (A).



04_21

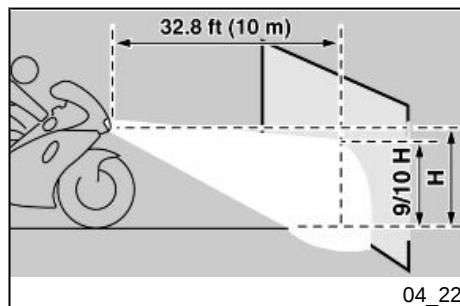
- When leaning into a left hand bend, the left hand LED bending assist light illuminates (B).

IMPORTANT

TO REMOVE, CHECK AND REPLACE THE FRONT LIGHT ASSEMBLY LAMPS, CONTACT AN Authorised Moto Guzzi Dealership

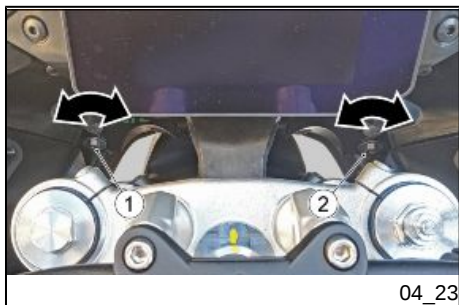
Headlight adjustment (04_22, 04_23, 04_24)**NOTE**

IN COMPLIANCE WITH LOCAL LEGAL REQUIREMENTS, SPECIFIC PROCEDURES MUST BE FOLLOWED WHEN CHECKING LIGHT BEAM ADJUSTMENT.



For a quick check of the correct direction of the front light beam:

- Place the vehicle 32.81 ft (10 m) away from a vertical wall and make sure the ground is level.
- Turn on the low beam light, sit on the vehicle and check that the light beam projected to the wall is a little below the headlight horizontal straight line (about 9/10 of the total height).



To carry out vertical adjustment of the light beam:

- Place the vehicle in a vertical position;
- Adjust the adjusting screws (1) and (2), located under the instrument panel, to adjust the (1) left and (2) right **low beam** headlamps. Turning the screw clockwise lowers the headlamp, and counterclockwise raises the headlamp.



- Using a Phillips screwdriver, turn the adjustment screw that can be reached from under the top fairing to adjust the **high beam** headlight. Turning the screw clockwise lowers the headlamp, and counterclockwise raises the headlamp.

Front direction indicators

NOTE

TO REMOVE, CHECK AND REPLACE THE FRONT TURN INDICATORS, PLEASE CONTACT AN Authorised Moto Guzzi Dealership

Rear lights

IMPORTANT

TO REMOVE, CHECK AND REPLACE THE REAR LIGHT ASSEMBLY, CONTACT AN Authorised Moto Guzzi Dealership.

Rear turn signals

NOTE

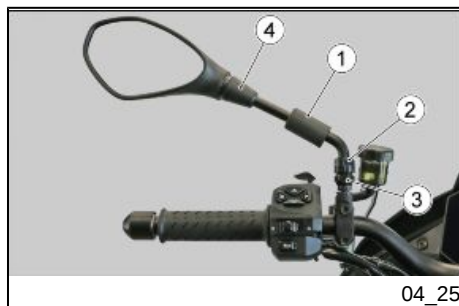
FOR DISASSEMBLY, VERIFICATION AND REPLACEMENT OF REAR INDICATORS PLEASE CONTACT AN Official Moto Guzzi Dealership

Rear-view mirrors (04_25, 04_26)



DO NOT RIDE WITH REAR-VIEW MIRRORS INCORRECTLY SET.

ALWAYS CHECK THAT THE MIRRORS ARE ADJUSTED CORRECTLY BEFORE SETTING OFF.



Removing the rear-view mirrors:

- Rest the vehicle on its stand.
- Lift the rubber protection (1).
- Loosen the fastening nut (2) by ensuring that the threaded clamp (3) cannot rotate.
- Slide up and remove the complete rear-view mirror unit (4).

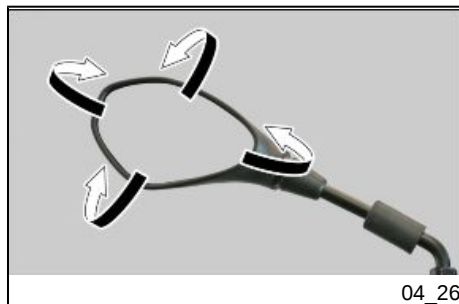
Repeat the procedure to remove the other rear-view mirror, if necessary.



UPON REFITTING AND BEFORE TIGHTENING THE LOCKING NUT, MAKE SURE THAT THE REAR VIEW MIRROR SUPPORT STEM IS ALIGNED WITH THE HANDLEBAR.

IMPORTANT

THE VEHICLE MAY NOT BE RIDDEN ON PUBLIC ROADS WITH THE REAR VIEW MIRRORS REMOVED.



Rear-view mirrors adjustment:

- Get onto the bike in the riding position.
- Turn the mirror, correctly adjusting the inclination.

Repeat the procedure to adjust the other mirror.

- Make sure there is no dirt or mud.

Front and rear disc brake (04_27, 04_28, 04_29)

IMPORTANT



A DIRTY DISC SMEARS THE PADS RESULTING IN POOR BRAKING.

REPLACE DIRTY PADS AND CLEAN AGAIN THE DIRTY DISC USING A TOP QUALITY DEGREASING PRODUCT.

IMPORTANT

TAKE YOUR VEHICLE TO AN Official Moto Guzzi Dealer TO HAVE THE FRONT WHEEL REMOVED.

IMPORTANT



CHECK BRAKE PADS FOR WEAR MAINLY BEFORE EACH RIDE.

Do not ride your vehicle with worn or malfunctioning brakes! Brakes are one of the most important parts for your vehicle's safety system, and using a vehicle that does not have perfect brakes means you are at high risk of collisions and accidents, even fatal.



IN CONDITIONS OF HUMID AND WET GROUND, THE PERFORMANCE OF THE BRAKING SYSTEM IS WIDELY REDUCED. WHEN THE ROAD SURFACE IS WET DUE TO RAIN, YOU SHOULD CHOOSE TO MAINTAIN A DOUBLE SAFETY DISTANCE, ALSO BECAUSE THE TYRE GRIP TO THE GROUND IS EXTREMELY REDUCED. PAY UTMOST ATTENTION TO WATER THAT MAY COME INTO CONTACT WITH THE BRAKES AFTER YOU WASH YOUR VEHICLE, OR WHILE YOU HAVE ENCOUNTERED PUDDLES ON THE ROAD, IT CAN SUFFICIENTLY WET YOUR BRAKING SYSTEM AND THUS EFFECTIVELY REDUCE THEM. FAILURE

TO OBSERVE THIS WARNING CAN LEAD TO SERIOUS ACCIDENTS AND EVEN DEATH.

Your vehicle is equipped with disc brakes with separate braking systems.

The front braking system is equipped with two discs, one on the right side and the other on the left side of the front wheel. The rear braking system is equipped with a single disc located on the right side of the rear wheel. The following information may refer to a single braking system but is valid for both braking systems.



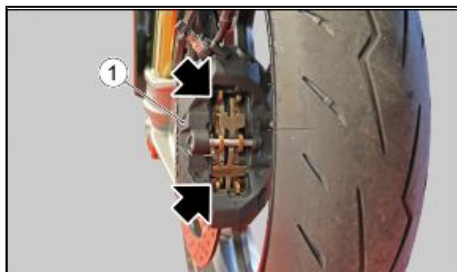
BRAKES ARE EXTREMELY IMPORTANT FOR YOUR SAFETY. DO NOT USE YOUR VEHICLE IF THE BRAKES ARE NOT WORKING PERFECTLY. ALWAYS CHECK THE EFFICIENCY OF THE BRAKES BEFORE RIDING THE VEHICLE.



IF THE POSITION OF THE BRAKE LEVER CHANGES, IT MAY BE DUE TO A PROBLEM WITH THE HYDRAULIC SYSTEM. FOR ANY DOUBT ABOUT THE PERFECT OPERATION OF THE BRAKES AND FOR THE NORMAL PERIODIC CHECK, CONTACT A Moto Guzzi Official Dealer BEFORE RIDING THE VEHICLE.

PAY UTMOST ATTENTION TO THE BRAKE DISCS AND THE FRICTION CAPACITY, MAKING SURE THEY ARE NOT DIRTY AND OILY, ESPECIALLY AFTER MAINTENANCE OR INSPECTION OPERATIONS. CHECK THAT THE BRAKE PIPES ARE NOT GLAZED OR TWISTED, AND THAT THERE IS NO LEAKAGE.

KEEP BRAKE FLUID OUT OF THE REACH OF CHILDREN. DISPOSE OF BRAKE FLUID CORRECTLY.



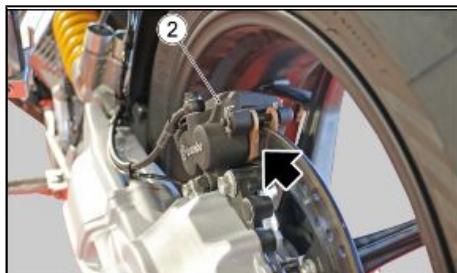
04_27

This is a quick inspection procedure to determine brake pad wear:

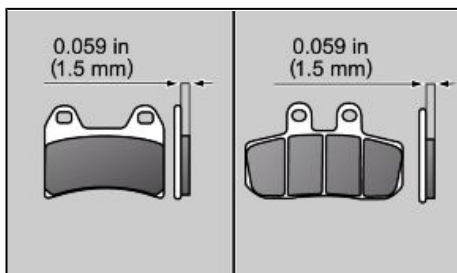
- Place the vehicle on the stand.
- Visually check the disc and brake pads, looking:
 - from above and behind, for the front brake calipers (1);
 - from under and behind, for the rear brake caliper (2).

IMPORTANT

EXCESSIVE WEAR OF THE FRICTION MATERIAL MAKES THE PAD METAL SUPPORT GET INTO CONTACT WITH THE DISC, WHICH RESULTS IN A METALLIC NOISE AND SPARKS IN THE CALLIPER; THEREFORE, BRAKING EFFICIENCY AND DISC SAFETY AND INTEGRITY ARE AT RISK.

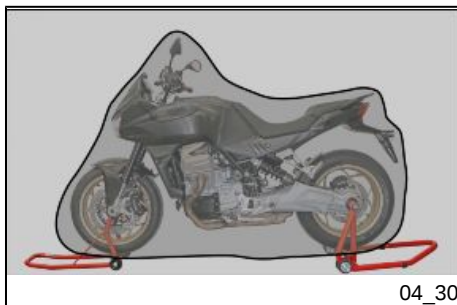


04_28



04_29

If the friction material thickness (even of one front or rear pad) is reduced to a value of about **0.059 in (1.5 mm)** (or even if one of the wear indicators is not very visible), contact an **Official Moto Guzzi Dealer** to replace all the brake callipers.



Periods of inactivity (04_30)

A number of precautionary measures must be taken to prevent the possible consequences of prolonged lack of usage of the vehicle. Besides, it is necessary to carry out general repairs and checks before garaging the motorcycle as one can forget to do so afterwards.

Proceed as follows:

- Remove the battery.
- Wash and dry the motorcycle.
- Apply wax polish to painted and chromed surfaces.
- Inflate the tyres.
- Set the vehicle in a room with no heating or humidity, with minimum temperature variations and not exposed to sun rays.
- Wrap and tie a plastic bag around the exhaust pipe opening to keep moisture out.

IMPORTANT

PLACE THE VEHICLE ON SUITABLE SUPPORTS TO KEEP THE TYRES OFF THE GROUND.

Cover the vehicle but do not use plastic or waterproof materials.

IMPORTANT

TO AVOID BATTERY DETERIORATION, FOLLOW THE PROCEDURE DESCRIBED FOR PROLONGED INACTIVITY.

AFTER STORAGE

NOTE

TAKE THE PLASTIC BAGS OFF THE EXHAUST PIPE OPENING.

- Uncover and clean the vehicle.

- Check the battery for correct charge and install it.
- Refill the fuel tank.
- Carry out the pre-ride checks.

IMPORTANT



AS A TEST, RIDE THE MOTORCYCLE FOR A FEW KILOMETRES AT A MODERATE SPEED AND AWAY FROM TRAFFIC AREAS.



Cleaning the vehicle (04_31, 04_32, 04_33)

Moto Guzzi recommends using quality products for cleaning the vehicle. The use of unsuitable products can damage vehicle components. For cleaning do not use solvents such as "nitro thinner", "cold cleaning agents", or similar fuels, or cleaning products that contain alcohol.

WASHING THE MOTORCYCLE

Moto Guzzi recommends softening with water and then carefully removing the insects and stubborn stains before washing the vehicle.

To prevent stains, do not wash the motorcycle immediately after exposure to sunlight, and do not wash it in the sun.

If the vehicle is used during the winter months, be sure to frequently wash the motorcycle. To remove anti-icing salt sprayed on roads in the winter, wash the motorcycle with cold water immediately after use.



USE OF HOT WATER INTENSIFIES THE EFFECT OF THE SALT. USE ONLY PLENTY OF COLD WATER TO WASH AND REMOVE ANTI-ICING SALT



USE OF HIGH PRESSURE WASHING SYSTEMS (OR STEAM CLEANERS) CAN DAMAGE THE SEALS, OIL SEALS, BRAKING SYSTEM, ELECTRICAL SYSTEM AND THE SADDLE. DO NOT USE STEAM OR HIGH PRESSURE CLEANING SYSTEMS. DO NOT USE STEAM OR HIGH PRESSURE CLEANING SYSTEMS. DO NOT INSIST WITH THE PRESSURE NOZZLE ON THE WHEEL BEARINGS, INSIDE THE REAR WHEEL HUB, ON THE HYDRAULIC BRAKING CIRCUIT AND ON THE ELECTRICAL PARTS.

CLEANING OF SENSITIVE PARTS

BODYWORK

To keep the motorcycle bright, wash it regularly, especially if used in areas with high levels of pollution or mud. Aggressive stains from tree resins, gasoline, oil, brake fluid or bird excrement in general.

must be removed immediately, otherwise permanent stains on the paint can appear. After washing is easy to identify marks and residual stains, remove these from the bodywork using a soft cloth, of a non-abrasive polish brand. Periodic care, a thorough cleaning of the bodywork preserves the aesthetic quality of the motorcycle over the long term.

PLASTIC COMPONENTS



IF THE PLASTIC COMPONENTS ARE CLEANED USING AGGRESSIVE AGENTS, THE SURFACE MAY BE DAMAGED. DO NOT USE CLEANING PRODUCTS CONTAINING ALCOHOL, SOLVENTS OR THAT ARE ABRASIVE FOR THE CLEANING OF PLASTIC PARTS. ROTARY BRUSHES OR SPONGES WITH HARD SURFACES CAN MAKE SCRATCHES

FRONT HEADLIGHT

Do not use products containing aggressive agents during use or during washing, due to the structure of the bottom bracket cup, under the frame can be detected water or dirt.

Since water outside the headlight will dry due to the heat and ventilation during use of the motorcycle, in case of persistence use compressed air at a distance of 10 cm from the headlight.



TO CLEAN THE HEADLIGHTS USE A SPONGE SOAKED IN WATER AND MILD DETERGENT, RUBBING THE SURFACE GENTLY AND RINSING FREQUENTLY WITH PLENTY OF WATER. DO NOT POLISH MATT-PAINTED SURFACES WITH POLISHING PASTE. THE VEHICLE SHOULD NEVER BE WASHED IN DIRECT SUNLIGHT, ESPECIALLY DURING SUMMER, OR WITH THE BODYWORK STILL HOT AS THE CAR SHAMPOO CAN DAMAGE THE PAINTWORK IF IT DRIES BEFORE BEING RINSED OFF.

IMPORTANT**WARNING**

AFTER HEAVY RAIN, WASHING OR IN CASE OF RAPID TEMPERATURE CHANGES, THE LENSES OF THE FRONT LIGHT ASSEMBLY MAY BECOME FOGGY.

THIS STATE IS DUE TO THE TEMPERATURE DIFFERENCE BETWEEN THE OUTSIDE AND THE INSIDE AND DOES NOT INDICATE A FAULT OF THE FRONT LIGHT ASSEMBLY.

CHROME PARTS AND POLISHED METAL



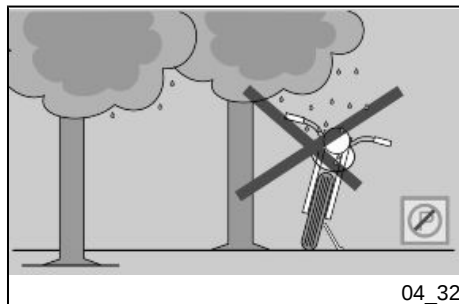
TREAT THE PARTS MADE OF CHROME, ALUMINIUM OR POLISHED STEEL IN A SPECIAL MANNER. WASH THEM WITH PLENTY OF WATER AND CAR SHAMPOO, POLISH AND REGULARLY BRIGHTEN THEM WITH DEDICATED PASTE, PROTECT THEM WITH SUITABLE ACID-FREE PRODUCTS (E.G. VASELINE)

RUBBER PARTS

Clean the rubber parts using water and mild shampoo (brand-name, suitable for car bodies)



THE USE OF SILICONE SPRAY TO CLEAN THE RUBBER SEALS MAY CAUSE DAMAGE. DO NOT USE OTHER PRODUCTS CONTAINING SILICON FOR CLEANING THE MOTORCYCLE



Clean the motorcycle frequently if exposed to adverse conditions, such as:

- Air pollution (cities and industrial areas).
- Salinity and humidity in the atmosphere (seashore areas, hot and wet weather).
- Special environmental/seasonal conditions (use of salt, anti-icing chemical products on the roads in winter).
- Always clean off any smog and pollution residue, tar stains, insects, bird droppings, etc. from the bodywork.
- Avoid parking the vehicle under trees. During some seasons, resins, fruits or leaves containing aggressive chemical substances that may damage the paintwork may fall from trees.

IMPORTANT

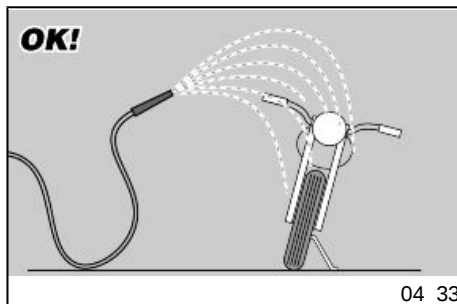
BEFORE WASHING THE VEHICLE, COVER THE ENGINE AIR INTAKES AND THE EXHAUST PIPES.

IMPORTANT

CLEAN THE INSTRUMENT PANEL WITH A SOFT CLOTH MOISTENED WITH WATER.

IMPORTANT

AFTER CLEANING YOUR MOTORCYCLE, BRAKING EFFICIENCY MAY BE TEMPORARILY AFFECTED DUE TO THE PRESENCE OF WATER ON THE FRICTION SURFACES OF THE BRAKING CIRCUIT. ALLOW LONGER BRAKING DISTANCES TO PREVENT ACCIDENTS. BRAKE REPEATEDLY TO RESTORE NORMAL OPERATION. CARRY OUT THE PRE-RIDE CHECKS.



To remove dirt and mud accumulated on painted surfaces, wet the soiled areas thoroughly with a low-pressure water jet, then remove dirt and mud with a soft car body sponge soaked abundantly in a solution of car body shampoo in water (2 - 4% shampoo dissolved in water). Then rinse with plenty of water, and dry with a chamois leather. To clean the engine outer parts, use degreasing detergent, brushes and old cloths. Wash anodised or painted aluminium parts with neutral soap and water. Using aggressive detergents may damage the surface treatment of these components.

IMPORTANT

NEVER USE CLOTHS SOAKED IN PETROL, DIESEL OIL OR KEROSENE FOR CLEANING THE PAINTED OR PLASTIC SURFACES SO AS NOT TO DAMAGE THE LUSTER FINISH OR ALTER THE MECHANICAL PROPERTIES.

IMPORTANT

DO NOT USE WATER (OR LIQUIDS) AT TEMPERATURES OVER 104°F (40°C) WHEN CLEANING THE VEHICLE PLASTIC PARTS. DO NOT AIM HIGH PRESSURE AIR/WATER JETS OR STEAM JETS DIRECTLY ON THESE COMPONENTS. DO NOT USE ALCOHOL OR SOLVENTS TO CLEAN ANY RUBBER OR PLASTIC SADDLE COMPONENTS USE WATER AND MILD SOAP.

IMPORTANT

DO NOT USE SOLVENTS OR PETROL BY-PRODUCTS (ACETONE, TRICHLOROETHYLENE, TURPENTINE, PETROL, THINNERS) TO CLEAN THE SADDLE. USE INSTEAD DETERGENTS WITH SURFACE ACTIVE AGENTS NOT EXCEEDING 5% (NEUTRAL SOAP, OR NEUTRAL DETERGENTS).

DRY THE SADDLE WELL AFTER CLEANING.

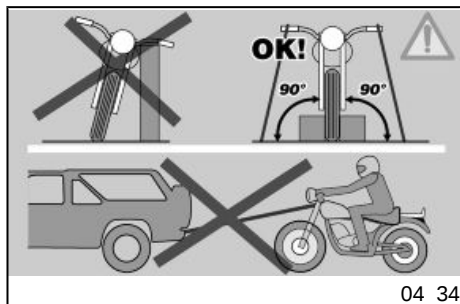
THE USE OF WAX OR SIMILAR PRODUCTS COMPROMISES THE SAFETY OF THE SADDLE ITSELF.



WHEN USING A SYSTEM OF PRESSURE WASHING (AFTER CHECKING THAT ANY DETERGENTS ARE COMPATIBLE WITH THE MOTORCYCLE FINISH), KEEP A DISTANCE OF AT LEAST ONE METRE.



CLEAN THE VEHICLE IMMEDIATELY WITH COLD WATER AFTER RIDING ON A ROAD TREATED WITH SALT: SALT IS HIGHLY CORROSIVE.



Transport (04_34)

NOTE



BEFORE TRANSPORTING THE VEHICLE, CAREFULLY EMPTY THE FUEL TANK AND CHECK THAT IT IS COMPLETELY DRY.

WHILE IT IS BEING MOVED, THE VEHICLE MUST REMAIN IN THE VERTICAL POSITION AND BE FIXED SECURELY IN POSITION IN ORDER TO AVOID SPILLING FUEL OR OIL.

IN CASE OF FAILURE, DO NOT TOW THE VEHICLE BUT CONTACT A ROAD ASSISTANCE SERVICE INSTEAD TO HAVE THE INFLAMMABLE FLUIDS DRAINED .

V100 Mandello - V100 Mandello S



Chap. 05
Technical data

DIMENSIONS AND MASS

Maximum Length	83.66 in (2125 mm)
Maximum width	32.87 in (835 mm)
Height (adjustable at the windshield)	47.63 - 51.18 in (1210 - 1300 mm)
Wheelbase	58.07 in (1475 mm)
Kerb weight	513.68 lb (233 Kg)

ENGINE

Type	Four-stroke, 90° transverse V-twin
Number of cylinders	2
Engine capacity	63.59 cu in (1042 cc)
Bore / stroke	3.77 x 2.83 in (96 x 72 mm)
Compression ratio	12.6 ± 0.5 : 1
Ignition	Electric
Idle engine speed	1400 +/- 100 rpm

Clutch	Multi plate wet clutch with anti-judder function.
Lubrication system	pressure-fed, controlled by valves and trochoidal pump
Air filter	cartridge-type dry filter
Cooling	Forced coolant circulation system.

GEARBOX

Type	mechanical, 6 speeds with foot lever on the left hand side of the engine
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CAPACITY

Fuel tank capacity (including reserve)	4.49 US gal (3.74 UK gal; 17 l)
Fuel tank reserve capacity	0.92 +/- 0.13 US gal (0.77 +/- 0.11 UK gal; 3.5 +/- 0.5 l)
Engine oil	Oil and oil filter replacement: 299.02 cu in (4900 cc)
Bevel gear set oil	15.26 cu in (250 cc)

Bevel gear oil (in case of replacement)	13.73 cu in (225 cc) MAX
Seats	2
Max. vehicle load	976.64 lb. (443 Kg) (rider + passenger + luggage)

TRANSMISSION

Primary drive	with gears, ratio: $31/48 = 1 : 1,548$
Gear ratios, 1st gear	$14 / 37 = 1 : 2,642$
Gear ratios, 2nd gear	$17 / 33 = 1 : 1,941$
Gear ratios, 3rd gear	$20 / 31 = 1 : 1,55$
Gear ratios, 4th gear	$22 / 28 = 1 : 1,272$
Gear ratios, 5th gear	$24 / 26 = 1 : 1,083$
Gear ratios, 6th gear	$25 / 24 = 1 : 0,96$
Final drive	with shaft, ratio $12 / 38 = 1 : 3,166$

FUEL SYSTEM

Type	Electronic injection (Marelli 11MP)
Throttle body	diam. 2.05 in (52 mm)

Fuel	Unleaded gasoline E10 (95 R.O.N.)
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CHASSIS

Type	high strength tubular steel frame
Steering rake angle	24.7°
Trail	4.095 in (104 mm)

SUSPENSION

Front (V100 Mandello)	hydraulic telescopic fork diam. 1.61 in (41 mm)
Rear (V100 Mandello S)	electronically controlled hydraulic telescopic fork diam. 1.69 in (43 mm)
Travel (V100 Mandello)	5.11 in (130 mm)
Travel (V100 Mandello S)	5.11 in (130 mm)
Rear	Swingarm in die-cast light alloy with 1 shock absorber with adjustable spring pre-loading and hydraulic brake extension.
Travel (V100 Mandello)	5.11 in (130 mm)
Travel (V100 Mandello S)	5.11 in (130 mm)

BRAKES

Front	two 12.59 in (320 mm) diam. stainless steel floating disc, calliper with 4 in (32 mm) diam. counteracting plungers
Rear	stainless steel disc diam. 11.02 in (280 mm) floating calliper with 2 pistons diam. 1.10 in (28 mm)

RIMS AND WHEELS

Type	die-cast alloy
Front	3.5" x 17"
Rear	6.00" x 17"

TYRES

Front	120 / 70 ZR17 (58W)
Tyre pressure	36.26 PSI (250 kPa) (2.5 bar)
Rear	190 / 55 ZR17 (75W)
Tyre pressure	40.61 PSI (280 kPa) (2.8 bar)

SPARK PLUGS

Standard	NGK LMAR8EI-7
Spark plug electrode gap	0.031 in (0.8 mm)
Resistance	7.5 KOhm (MAX)

ELECTRICAL SYSTEM

Battery	12 V - 12 Ah
Fuses	40- 30 - 20 - 15 (3) - 10 (2) - 7.5 (6) - 5 (3) - 3 A
Permanent magnet alternator	12V - 550W

BULBS

High beam/low beam light	LED
Fog lights	LED
Front DRL	LED
Turn signal lights	LED
Rear running light / brake light	LED
Dashboard lighting	LED

INDICATOR LAMPS

Gearbox in neutral	LED
High beam headlight	LED
Cruise control warning light	LED
ABS warning light	LED
MI warning light	LED
Turn indicators	LED
Overspeed threshold / gear shift warning lights	LED
Immobilizer warning light	LED
Fuel reserve	LED
MGCT warning light	LED
General alarm	LED
Daytime running lights warning light	LED
Side stand warning light	LED



Toolkit (05_01)

A 4 mm Allen key is supplied with the vehicle located on the underside of the passenger seat.

V100 Mandello - V100 Mandello S



Chap. 06
Scheduled
maintenance



06_01

Scheduled servicing table (06_01)

Proper maintenance is a crucial factor in prolonging the durability of the vehicle and keeping it in perfect working order.

To ensure that maintenance is carried out correctly, the constructor has defined the schedule of checks and services (performed at the owner's expense) summarised in the table given in the following page. It is a good idea to report small performance anomalies right away to an **Authorised Service Centre**, without waiting for the next scheduled service, so they can be repaired immediately.

All scheduled maintenance services must be carried out at the prescribed times, even if the specific mileage has not yet been reached. Services must be performed punctually at the correct intervals to maintain the validity of the warranty. For any additional information concerning Warranty procedures and 'Scheduled Maintenance', please consult the 'Warranty Conditions'.

NOTE

CARRY OUT MAINTENANCE OPERATIONS AT HALF THE INTERVALS SPECIFIED IF THE VEHICLE IS USED IN PARTICULAR RAINY OR DUSTY CONDITIONS, OFF ROAD OR FOR TRACK USE.

SCHEDULED MAINTENANCE TABLE

km x 1,000 (mi x 1,000)	1,5 (0.9)	12 (7.5)	24 (14.9)	36 (22.4)	48 (29.8)	60 (37.3)	72 (44.7)	EVERY 12 MONTHS	EVERY 24 MONTHS
Engine oil filler plug O-ring	I	I	I	I	I	I	I	I	I
Fork plug O-ring					I				
Spark plugs		I	R	I	R	I	R		
Alternator belt		I	R	I	R	I	R		R
Steering bearings and steering play	I	I	I	I	I	I	I	I	I

km x 1,000 (mi x 1,000)	1,5 (0.9)	12 (7.5)	24 (14.9)	36 (22.4)	48 (29.8)	60 (37.3)	72 (44.7)	EVERY 12 MONTHS	EVERY 24 MONTHS
Front wheel bearings		I	I	I	I	I	I	I	I
Diagnosis by tool	I	I	I	I	I	I	I	I	I
Brake discs - Pads wear (4)	I	I	I	I	I	I	I	I	I
Air filter		R	R	R	R	R	R		
Engine oil filter	R	R	R	R	R	R	R		R
Vehicle general operation	I	I	I	I	I	I	I	I	I
Valve clearance			I		I		I		
Head cover gasket	I	I	I	I	I	I	I		
Engine oil discharge plug aluminium gasket	R	R	R	R	R	R	R	R	R
Transmission oil discharge plug gasket			R		R		R		
Gasket for the engine oil filter fastening screw	R	R	R	R	R	R	R	R	R
Brake systems	I	I	I	I	I	I	I	I	I
Light circuit	I	I	I	I	I	I	I	I	I
Safety switches	I	I	I	I	I	I	I	I	I
Brake fluid	I	I	I	I	I	I	I	I	R
Clutch fluid	I	I	I	I	I	I	I	I	R
Coolant	I	I	I	I	I	I	I	I	R
Fork oil (5)					R				
Engine oil (3)	R	R	R	R	R	R	R	R	R
Final drive oil			R		R		R		
Headlight aiming		I	I	I	I	I	I		

km x 1,000 (mi x 1,000)	1,5 (0.9)	12 (7.5)	24 (14.9)	36 (22.4)	48 (29.8)	60 (37.3)	72 (44.7)	EVERY 12 MONTHS	EVERY 24 MONTHS
Fork oil seals (1)		I	I	I		I	I		
Tyres - pressure / wear (2)	I	I	I	I	I	I	I	I	I
Transmission oil filler plug washer			R		R		R		
Nut/bolt tightness	I	I	I	I	I	I	I		
Suspensions and stability			I		I		I	I	I
Head cover fastening screws dampers	I	I	I	I	I	I	I		
Filter box drain plug		C	C	C	C	C	C	C	C
Brake lines		I	I	I	I	I	I		
Fuel pipes		I	I	I	I	I	I	I	I

I: Check and clean, adjust, lubricate or replace, if necessary

C: clean

R: replace

A: adjust

(1): Replace in case of leaks

(2): Check every month

(3): Check every 500 km (310 miles)

(4): Check and clean, adjust or replace if necessary every 1000 km (621 miles)

(5): Replace at whichever of the following occurs first: 48,000 km (29,800 mi) or 4 years



Recommended Products (06_02)

Piaggio Group recommends the use of products from its Castrol official partner for the scheduled maintenance of its vehicles.

Only use lubricants and fluids which meet or exceed the performance characteristics specified. This also applies when topping up only.

TABLE OF RECOMMENDED PRODUCTS

Product	Description	Specifications
Engine oil 10W -50	Synthetic-based lubricant for high performance four-stroke engines.	SAE 10W 50; API SL; JASO MA2
75W-140 lubricant for gearboxes and transmissions	Synthetic lubricant for gearboxes and transmissions	SAE 75W-140 - API GL5
Anti-freeze liquid, ready to use, colour red	Glycol ethylene based antifreeze liquid with organic additive technology corrosion inhibitor. Colour red, ready to use.	ASTM D 3306 - ASTM D 4656 - ASTM D 4985 - CUNA NC 956-16
Fork oil 7.5W	Fork oil.	SAE 7.5W
Molybdenum disulphide grease	Lithium grease with molybdenum disulphide.	Grey black grease
Petroleum jelly	neutral grease for battery terminals	-
DOT 4 brake fluid	Synthetic brake fluid.	SAE J 1703; FMVSS 116; ISO 4925; CUNA NC 956 DOT4

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THE VALUE OF GOOD SERVICE

As a result of continuous updates and specific technical training programs for Moto Guzzi products, only **Moto Guzzi** Official Network mechanics know this vehicle fully and have the specific tools necessary to carry out maintenance and repair operations correctly.

The bike's reliability also depends on its mechanical condition. Checking the vehicle before riding it, its regular maintenance and the use of **original Moto Guzzi spare parts** only are essential factors!

To find out which is your nearest **Official Dealer and/or Service Center** visit our website:

www.motoguzzi.com

Only by requesting Moto Guzzi original spare parts can you be sure of purchasing products that were developed and tested during the actual vehicle design stage. All Moto Guzzi original spare parts undergo quality control procedures to guarantee reliability and durability.

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