

Owner's manual

DIAVEL

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STRADA



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ENGLISH

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This manual forms an integral part of the motorcycle and must be kept with it its whole service life.

If the motorcycle is resold, the manual must always be handed over to the new owner.

This manual must be preserved with care. If it lost or becomes damaged, contact a Ducati Dealer or authorised Service Centre without delay to obtain a new copy of the manual.

The quality standards and safety of Ducati motorcycles are steadily improved as new design solutions, equipment and accessories are developed. While the information contained in this manual is current at the time of going to print, Ducati Motor Holding S.p.A. reserves the right to make changes at any time without notice and without any obligations. For this reason, the illustrations in this manual might differ from your motorcycle.

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Enjoy your ride!

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Routine maintenance record 241

Foreword

Safety guidelines

We would like to welcome you among Ducati enthusiasts, and congratulate you on your excellent choice of motorcycle. We think you will ride your Ducati motorcycle for long journeys as well as short daily trips. Ducati Motor Holding S.p.A. wishes you smooth and enjoyable riding.

Your motorcycle is the result of Ducati Motor Holding S.p.A.'s on-going research and development efforts. It is important that you preserve its quality standard by strictly observing the maintenance plan and using genuine spare parts. This manual provides instructions on minor maintenance operations. Major maintenance operations are described in the Service Manual available to Ducati Authorised Service Centres.

In your own interest, for your safety and in order to guarantee product reliability, you are strongly advised to refer to our authorised Dealers and Service Centres

for any operations listed in the scheduled maintenance chart, see page 222.

Our highly skilled staff have access to special implements and appropriate equipment required to perform any servicing job at best, and use Ducati original spare parts only as the best guarantee for full interchangeability, smooth running and long life.

All Ducati motorcycles come with a Warranty Card. The warranty does not apply to motorcycles used in racing competitions.

Tampering with or altering any components, even partially, will make the warranty null and void effective immediately. Improper or poor maintenance, using other than original spare parts or parts not expressly approved by Ducati may invalidate your warranty rights and lead to damage or loss of performance.

Your safety and that of other road users are very important. Ducati Motor Holding S.p.A. recommends that you ride responsibly.

Before using your motorcycle for the first time, read this entire manual carefully and closely follow the guidelines outlined in it. The manual provides full information on proper motorcycle operation and

maintenance. In case of any doubts, please call a Dealer or Authorised Service Centre.

The terms RIGHT and LEFT refer to the motorcycle viewed from the riding position.

Safety alerts

To alert you to potential hazards that could potentially harm you or other persons, the following safety alerts have been used:

- Safety labels on motorcycle;
- Safety messages preceded by a warning symbol and the word WARNING or IMPORTANT.

Warning

Failure to comply with these instructions may put you at risk and result in severe injury to rider or other persons or even death.

Important

Possibility of damaging the motorcycle and/or its components.

Note

Additional information concerning the job being carried out.

Permitted use

This motorcycle must be exclusively used on asphalted road or paths having a flat and smooth paving. This motorcycle may not be used for riding on dirt trails or for off-road riding.

The maximum weight permitted for the side panniers, top case and the tank bag must never exceed 15 kg, divided as follows:
5 kg max. per side pannier;
5 kg max. for the tank bag.



Warning

Off-road use may result in loss of control and lead to vehicle damage or injury or even death.



Warning

This motorcycle may not be used to tow any trailers or with a side-car attached; this can lead to loss of control and result in an accident.

This motorcycle carries the rider and can carry a passenger.



Warning

The total weight of the motorcycle in running order including rider, passenger, luggage and additional accessories should not exceed 430 kg/948 lb.

Rider's obligations

All riders must hold a valid licence.

Warning

Riding without a licence is illegal and is prosecuted by law. Always make sure you have your licence with you when riding. Do not let inexperienced riders or who do not hold a valid licence use your motorcycle.

Do not ride under the influence of alcohol and/or drugs.

Warning

Riding under the influence of alcohol and/or drugs is illegal and is prosecuted by law.

Do not take prescription or other drugs before riding unless you have consulted your doctor about their side effects.

Warning

Some medications and drugs may cause drowsiness or other effects that slow down reaction time and the rider's ability to control the motorcycle, possibly leading to an accident.

Some states require vehicle insurance.

Warning

Check your state laws. Obtain insurance coverage and keep your insurance document secure with the other motorcycle documents.

To protect rider and passenger safety, some states mandate the use of a certified helmet.

Warning

Check your state laws. Riding without a helmet may be punishable by law.

Warning

Riders without helmets are more likely to suffer severe bodily injury or die if they are in an accident.



Warning

Check that your helmet complies with safety specifications, permits good vision, is the right size for your head, and carries a certification label indicating that it conforms to the standards in force in your state. Traffic laws differ from state to state. Learn about traffic laws in your state before riding and always obey them.

Rider training

Accidents are frequently due to inexperience. Driving a motorcycle is different from driving other vehicles and requires specific riding and braking techniques.



Warning

Poor training or improper operation of the vehicle can lead to loss of control, death or severe damage.

Riding gear

Riding gear is very important for safety. Unlike cars, a motorcycle offers no impact protection in an accident.

Proper riding gear includes helmet, eye protection, gloves, boots, long sleeve jacket and long pants.

- The helmet must have the requirements listed in page 10; if your helmet does not have a visor, use suitable eye wear;
- Use five-finger gloves made from leather or abrasion-resistant material;
- Riding boots or shoes must have non-slip soles and offer ankle protection;
- Jacket, pants or riding suit must be made from leather or abrasion-resistant material and have high-visibility colours and inserts.



Important

Never wear loose clothing, items or accessories that may become tangled in motorcycle parts.



Important

For your safety, always wear proper protective gear, regardless of season and weather.



Important

Have your passenger wear proper protective clothing.

Best practices for motorcycle safety

These few simple operations are critical to people safety and to preserving the full performance of your motorcycle. Never forget to perform them before, while and after riding.

Important

During the whole running-in period, the indications recommended in section "Riding the Motorcycle" shall be observed carefully. Failure to follow these instructions releases Ducati Motor Holding S.p.A. from any liability whatsoever for any engine damage or shorter engine life.

Warning

Before riding your motorcycle, become familiar with the controls you will need to use when riding.

Perform the checks recommended in this manual before each ride (see page 176).

Warning

Failure to carry out these checks before riding, may lead to motorcycle damage and injury to rider and/or passenger.

Warning

Start the engine outdoors or in a well ventilated area. The engine should never be started or run indoors.

Exhaust gases are poisonous and may lead to loss of consciousness or even death within a short time. Use proper body position while riding and ensure your passenger does the same.

Important

Rider must hold the handlebars with both hands **AT ALL TIMES** while riding.

Important

Both rider and passenger should keep their feet on the footpegs when the motorcycle is in motion.

Important

The passenger should always hold on to the grab handles under the seat with both hands.



Important

Be very careful when tackling road junctions, or when riding in the areas near exits from private grounds, car parks or on slip roads to access motorways.



Important

Be sure you are clearly visible and do not ride within the blind spot of vehicles ahead.



Important

ALWAYS signal your intention to turn or pull to the next lane in good time using the suitable turn indicators.



Important

Park your motorcycle where no one is likely to hit it and use the side stand. Never park on uneven or soft ground or your motorcycle may fall over.



Important

Visually inspect the tyres at regular intervals for detecting cracks and cuts, especially on the side walls, bulges or large spots that are indicative of internal damage. Replace them if badly damaged. Remove any stones or other foreign bodies caught in the tread.



Warning

The engine, exhaust pipes and silencers remain hot for a long time after engine is switched off; pay particular attention not to touch exhaust system with any body part and do not park the vehicle next to inflammable material (wood, leaves etc.).



Warning

Always remove the key when you leave your motorcycle unattended and make sure it is not accessible to persons not authorised to use the motorcycle.

Refuelling

Refuel outdoors with the engine turned off.

Do not smoke or use open flames when refuelling.

Be extremely careful not to spill fuel on the engine or on the exhaust pipe.

Never fill the tank completely. Fuel should never be touching the rim of filler recess.

While refuelling, avoid inhaling fuel vapours and avoid contact with eyes, skin or clothing.



Warning

The motorcycle is only compatible with fuel having a maximum content of ethanol of 10% (E10). Using fuel with ethanol content over 10% is forbidden. Using it could result in severe damage of the engine and motorcycle components. Using fuel with ethanol content over 10% will make the warranty null and void.



Warning

In the event of illness after prolonged breathing of fuel vapours, stay outdoors and seek medical advice. In the event of contact with eyes, flush with plenty of water. After contact with skin, wash immediately with water and soap.



Warning

Fuel is highly inflammable. Clothing with spilled fuel on it should be removed as possible.

Carrying the maximum load allowed

Your motorcycle is designed for long-distance riding, carrying the maximum load allowed in full safety. Even weight distribution is critical to preserving these safety features and avoiding trouble when performing sudden manoeuvres or riding on bumpy roads.

Warning

Maximum speed allowed with side panniers and top case installed is 180 km/h and must in any case comply with statutory provisions.

Warning

Do not exceed the total permitted weight for the motorcycle and pay attention to information provided below regarding load capacity.

Information about carrying capacity

Important

Arrange your luggage or heavy accessories in the lowest possible position and close to motorcycle centre.

Important

Never fix bulky or heavy objects to the handlebar or to the front mudguard as this would affect stability and cause danger.

Important

Be sure to secure the luggage to the supports provided on the motorcycle as firmly as possible. Improperly secured luggage may affect stability.

Important

Do not insert any objects you may need to carry into the gaps of the frame as these may foul moving parts.



Warning

Make sure the tyres are inflated to the proper pressure and that they are in good condition.

Please, refer to paragraph "Tyres" in page 214.

Dangerous products - warnings

Used engine oil

Warning

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

Brake lining debris

Never attempt to clean the brake assembly using compressed air or a dry brush.

Brake fluid

Warning

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

Warning

The brake fluid used in the brake system is corrosive. In the event of accidental contact with eyes or skin, wash the affected area with abundant running water.

Coolant

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

Warning

Take care not to spill engine coolant on the exhaust system or engine parts.

These parts may be hot and ignite the coolant, which will subsequently burn with invisible flames. Coolant (ethylene glycol) is an irritant and is poisonous when ingested. Keep away from children. Never remove the radiator cap when the engine is hot. The coolant will be scalding hot and is under high pressure.

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

Battery



Warning

The battery gives off explosive gases; keep it away from any source of ignition such as sparks, flames and cigarettes. Charge the battery in a well-ventilated area.

Vehicle identification number



Note

These numbers identify the motorcycle model and should always be indicated when ordering spare parts.

It is recommended to record the frame number of your motorcycle in the space below.

Frame number

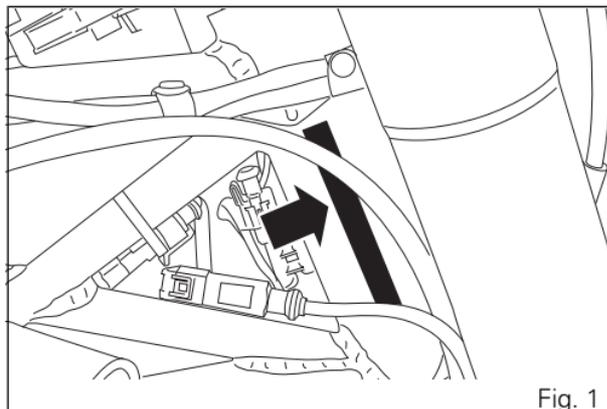


Fig. 1

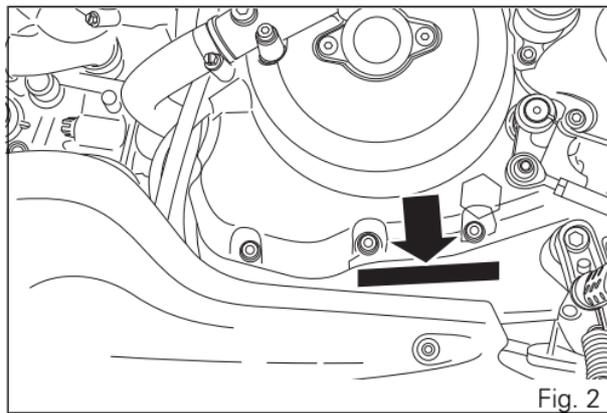
Engine identification number



Note These numbers identify the motorcycle model and should always be indicated when ordering spare parts.

It is recommended to record the number of your motorcycle's engine in the space below.

Engine number



Instrument panel (Dashboard)

Instrument panel on handlebar

The instrument panel on the handlebar includes a LCD display (1) which shows the main information (speed, engine revolutions, engine coolant temperature and clock).

1) LCD Display.

2) NEUTRAL LIGHT N (GREEN).

Comes on when in neutral position.

3) HIGH BEAM LIGHT  (BLUE).

It turns on to indicate that the high beam lights are on.

4) ENGINE OIL PRESSURE LIGHT  (RED).

Comes on when engine oil pressure is too low. It must turn on at Key-On, but must turn off a few seconds after the engine has started. It may shortly come on when the engine is hot, however, it should go out as the engine revs up.

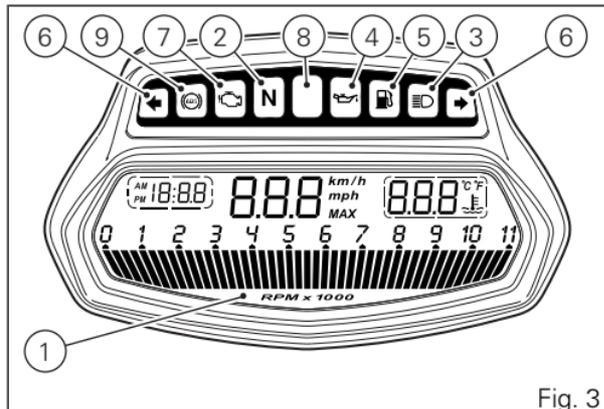


Fig. 3



Important

If the ENGINE OIL light stays ON, stop the engine or it may suffer severe damage.

5) LOW FUEL LIGHT  (AMBER YELLOW).
Comes on when fuel is low; there are about 4 litres of fuel left in the tank.

6) TURN INDICATOR LIGHTS  (GREEN).
Illuminates and flashes when the turn indicator is in operation.

7) "ENGINE/VEHICLE DIAGNOSIS - EOBD" LIGHT  (AMBER YELLOW).

It turns on in the case of "engine" and/or "vehicle" errors and in some cases will lock the engine.

8) LIMITER LIGHT "OVER REV"/ TRACTION CONTROL LIGHT "DTC" (RED).

	Over rev light
No limiter	Off
1st threshold - no. RPM before the limiter threshold (*)	On - STEADY
Rev limiter (limiter engaged due to overrevving) (*)	On - Flashing

(*) depending on the model, each calibration of the Engine Control Unit may have a different "setting" for

the thresholds that precede the rev limiter and regarding the rev limiter itself.

	DTC intervention light
No intervention	Off
DTC intervention	On - Flashing



Note

If the Over rev function light and the DTC intervention light should both come on at the same time, the instrument panel gives priority to the Over rev function.

10) ABS LIGHT  (AMBER YELLOW) (Fig. 3).

Engine off / speed below 5 Km/h		
Light off	Light flashing	Light steady
-	ABS disabled with the menu function (**)	ABS enabled but not functioning yet
Engine on / speed below 5 Km/h		
Light off	Light flashing	Light steady
-	ABS disabled with the menu function	ABS enabled but not functioning yet
Engine on / speed above 5 Km/h		
Light off	Light flashing	Light steady
ABS enabled and functioning	ABS disabled with the menu function	ABS disabled and not functioning due to a problem

(**) The ABS should be considered actually disabled only if the light continues to flash after starting the engine.

LCD - Main functions

1) SPEEDOMETER.

Indicates vehicle speed.

2) REV COUNTER.

Shows the engine rotation speed/minute (rpm).

3) CLOCK.

4) WATER TEMPERATURE INDICATOR.

Indicates engine coolant temperature.



Important

Never use the vehicle when the temperature reaches max. value or the engine might be damaged.

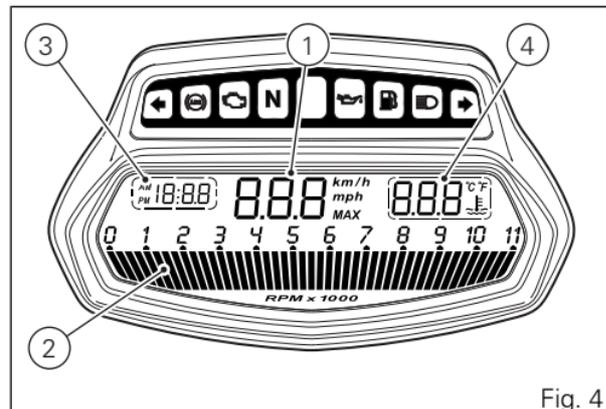


Fig. 4

Vehicle speed indicator

This function shows vehicle speed (Km/h or mph, based on the selected unit of measurement).

The instrument panel receives information about the actual speed (calculated in km/h) and displays the number increased by 5%.

Maximum speed displayed is 299 km/h (186 mph).

Over 299 km/h (186 mph) a series of dashes will be displayed "----" (not flashing).



Note

If the instrument panel does not receive any information, a series of dashes will be displayed "----" (not flashing).

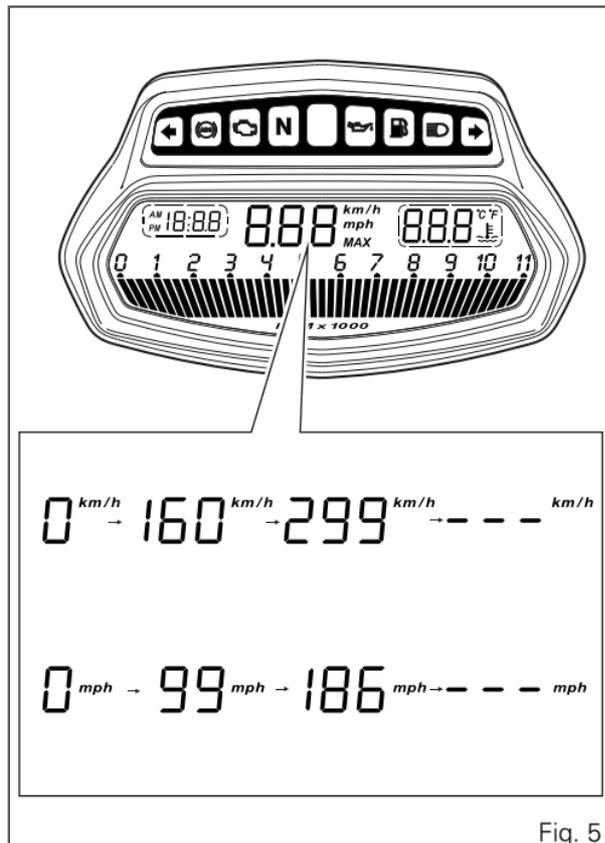


Fig. 5

Engine rpm indicator (RPM)

This function shows engine rpm.

The instrument panel receives the engine rpm information and displays it.

This information is displayed progressively from the left to the right, identifying the rpms.

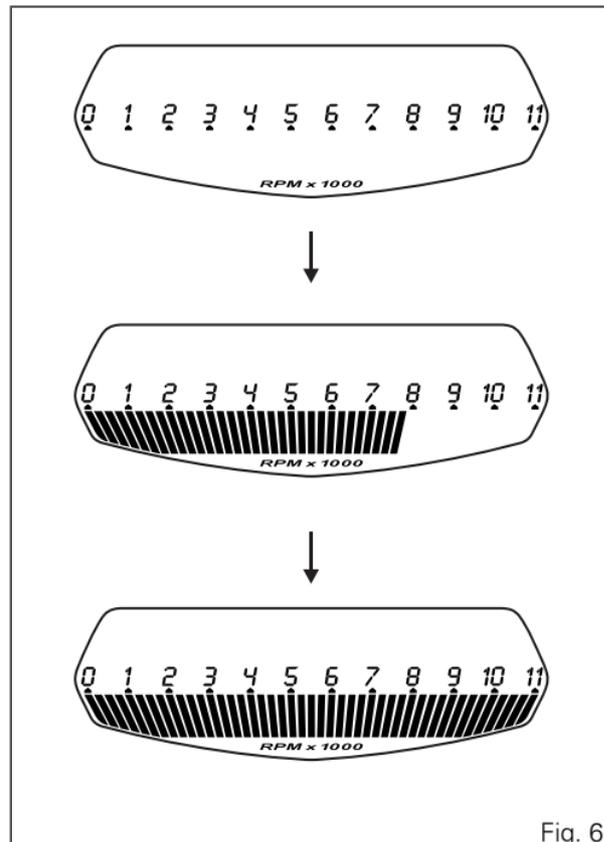


Fig. 6

Clock

This function shows the time.

Time is always displayed as follows:

AM from 0:00 to 11:59;

PM from 12:00 to 11:59.

If battery power is suddenly cut off (Batt-OFF), when battery power is restored and upon next Key-On, the clock is reset and restarts operating from "0:00".

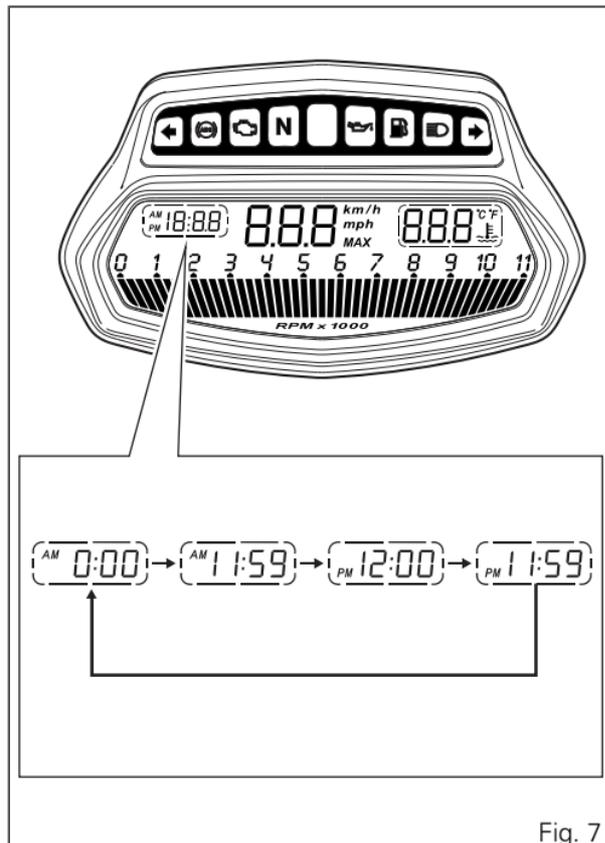


Fig. 7

Coolant temperature

This function indicates coolant indication state.

The temperature unit of measurement can be selected (°C or °F).

The reading is indicated as follows:

- if the reading is between -39°C and +39°C (-38°F and +102°F) "LO" is shown on the instrument panel (steady);
- if the reading is between +40°C and +120°C (+104°F and +248°F) it appears on the instrument panel (steady);
- if the reading is +121°C (+250°F) or higher, "HI" is shown on the instrument panel (flashing).



Note

In the event of a sensor "error", a string of flashing dashes ("- - -") is shown and the "Engine/vehicle diagnosis - EOBD" light comes on.

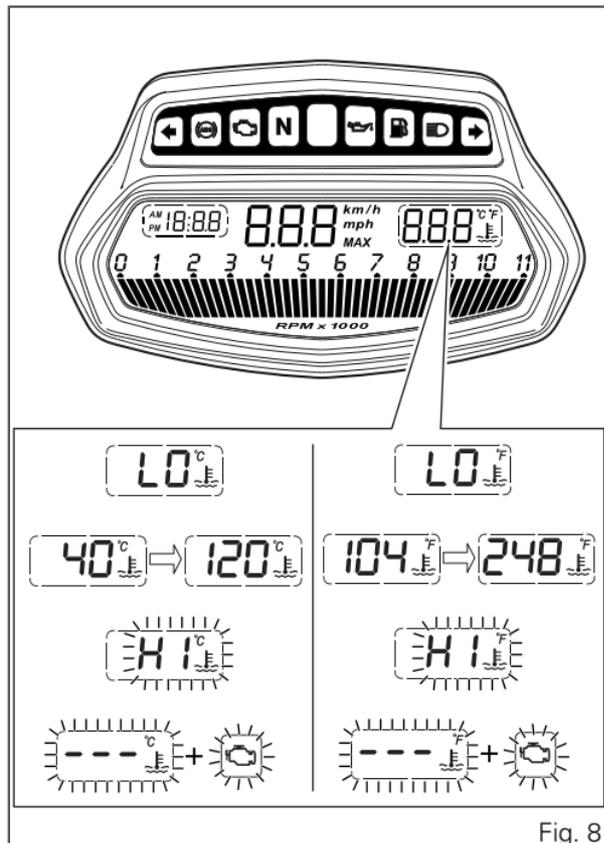


Fig. 8

Display background colour (Automatic adjustment)

Instrument panel background colour is set automatically according to exterior lighting conditions.

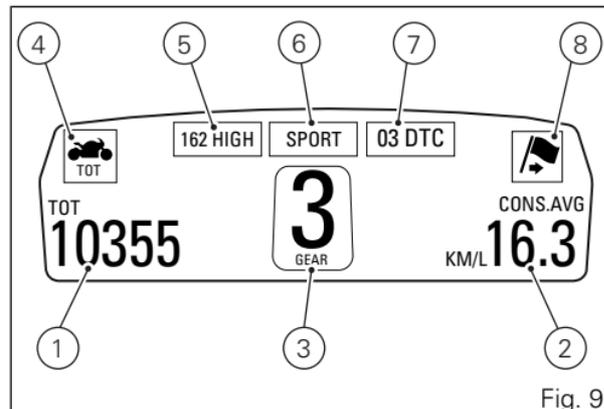
When sensor detects "poor lighting" conditions (night), it switches to black background mode; while when "significant" lighting is detected (day), it switches to white background mode.

This function can be customised through the "setting" menu, using function "BACK LIGHT - DASHBOARD 1", on page 83, and possibly permanently setting either of the NIGHT or DAY modes (or go back to AUTO mode).

Instrument panel on fuel tank

The instrument panel on the fuel tank includes a colour TFT display housed in the tank fairing, which shows all trip information (selected riding mode, trip meter, consumption, average speed, etc.) and the "setting" menus for the activation and adjustment of the various functions.

- 1) Menu 1 (TOT, TRIP1, TRIP2, TRIP FUEL).
- 2) Menu 2 (CONS.AVG., CONS., SPEED AVG, AIR and TRIP TIME) if active.
- 3) Gear / Neutral indication.
- 4) Icon referred to the function indicated under Menu 1.
- 5) Indication of the engine setting for the currently selected riding mode.
- 6) Currently selected Riding Mode.
- 7) Indication of the DTC (Traction Control) intervention level for the currently selected riding mode.
- 8) Icon referred to the function indicated under Menu 2.



Function push-buttons

- 1) CONTROL BUTTON.
Button used to display and set instrument panel parameters with the position "▲".
- 2) CONTROL BUTTON
Button used to display and set instrument panel parameters with the position "▼".
- 3) HIGH-BEAM FLASH BUTTON FLASH
The high-beam flash button may also be used for LAP functions.
RESET BUTTON
The turn indicators off button may also be used for instrument panel RESET/CONFIRM function and for activating the "Riding Mode".

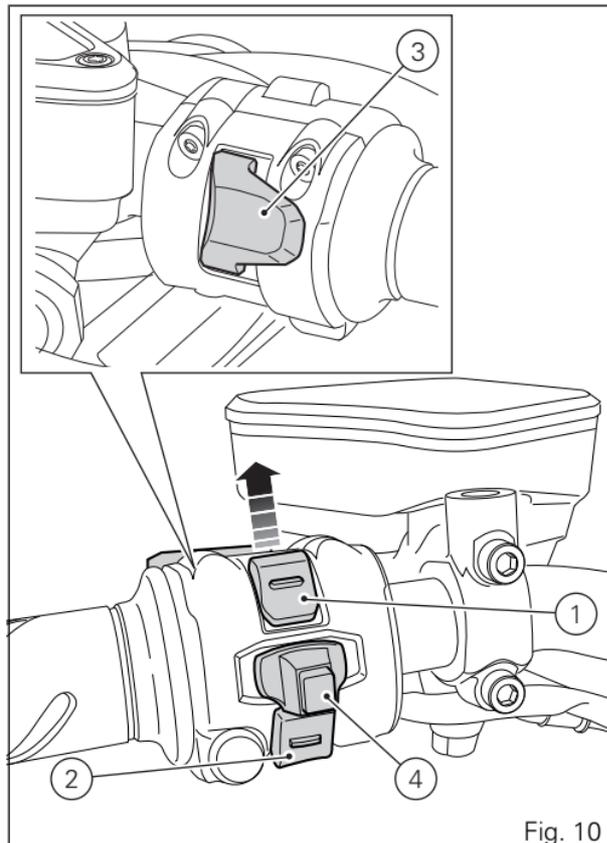


Fig. 10

TFT – Parameter setting/display

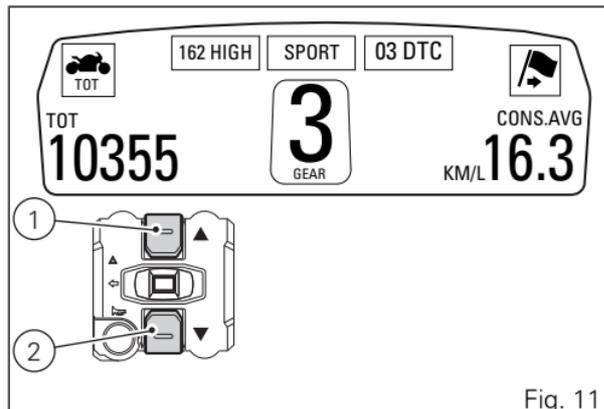
Warning

Stop the motorcycle before using the instrument panel controls. Never operate the instrument panel controls while riding.

After the check routine, the instrument panel always displays as the "main" indication the Trip Meter (TOT) on the left and the Average Consumption on the right (unless Menu 2 was disabled).

The "main" visualisation includes the following information:

- Selected Riding Mode (Riding Mode);
- Gear indication (GEAR);
- Menu 1 : Trip Meter (TOT);
- Menu 2 : Average Consumption (CONS. AVG).



Press button (1) to select the following menu 1 functions:

- TRIP1 - Trip meter 1;
- TRIP2 - Trip meter 2;
- TRIP FUEL - Distance travelled on fuel reserve (if active, only).

Press button (2) to select the following menu 2 functions:

- CONS. - Instantaneous Consumption;
- SPEED AVG - Average Speed;

- TRIP TIME - Trip Time;
- AIR - Air Temperature.

Visualisation of Menu 2 can be disabled through the Setting menu with the Function "MENU 2".

Total distance covered indicator

"Odometer"

This function shows the total distance covered by the vehicle (in Km or miles depending on the specific application).

At Key-On the system automatically enters this function.

The odometer reading is stored permanently and cannot be reset.

If the distance travelled exceeds 199999 km (or 199999 miles), the value "199999" will be displayed permanently.

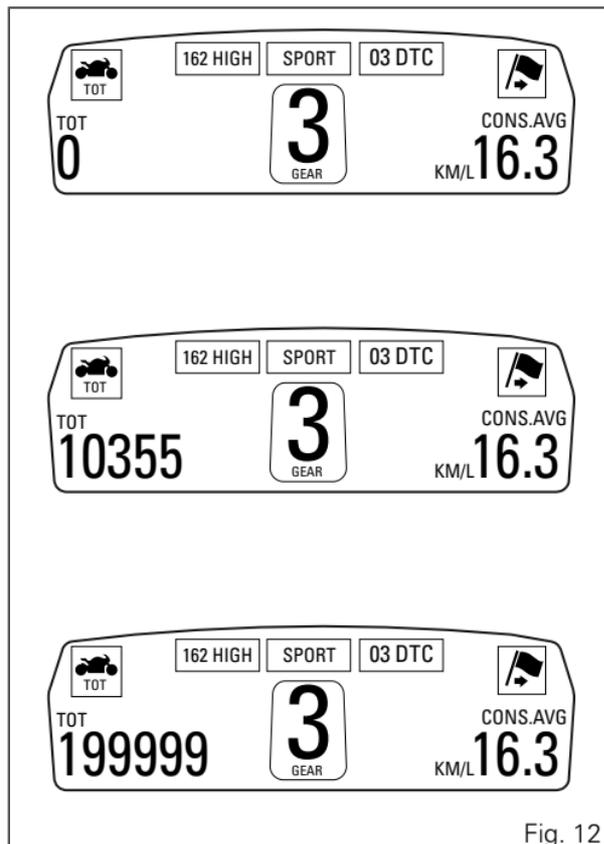


Fig. 12

“Trip 1” meter

This function shows the distance travelled since the Trip meter was last reset (in Km or miles depending on the specific application). Holding button (1) pressed for 3 seconds when this function is displayed resets the trip meter. When the reading exceeds 9999.9, distance travelled is reset and the meter automatically starts counting from 0 again.

If the system measurement units are changed at any moment through the Setting menu, using the Function "SET UNITS", or if there is an interruption in the power supply (Battery Off), the distance travelled is reset and the count starts from zero (considering the newly set unit of measurement).



Note

When this value is reset, also the “Average fuel consumption”, “Average speed” and “Trip time” functions are reset.

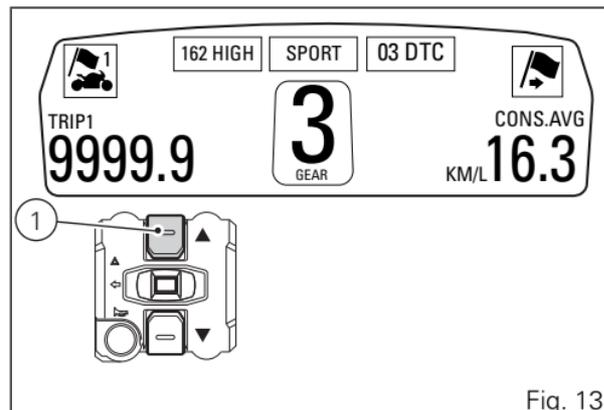


Fig. 13

“Trip 2” meter

This function shows the distance travelled since the Trip meter was last reset (in Km or miles depending on the specific application). Holding button (1) pressed for 3 seconds when this function is displayed resets the trip meter. When the reading exceeds 9999.9, distance travelled is reset and the meter automatically starts counting from 0 again.

If the system measurement units are changed at any moment through the Setting menu, using the Function "SET UNITS", or if there is an interruption in the power supply (Battery Off), the distance travelled is reset and the count starts from zero (considering the newly set unit of measurement).

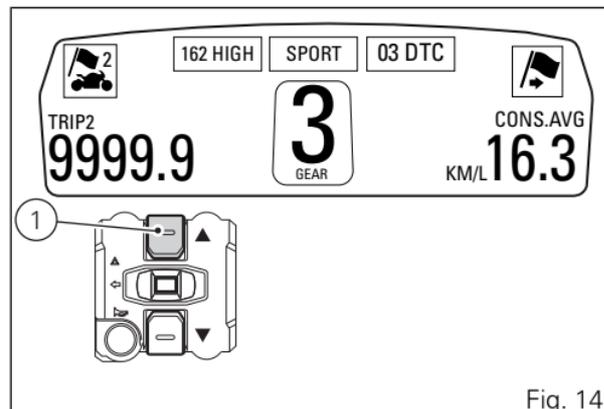


Fig. 14

Distance travelled on fuel reserve “TRIP FUEL”

This function shows the distance travelled on fuel reserve (in Km or miles depending on the specific application). When the low fuel light turns on, no matter the displayed function, the "TRIP FUEL" is automatically activated.

Trip fuel reading remains stored even after Key-Off until the vehicle is refuelled.

Count is interrupted automatically as soon as fuel is topped up to above minimum level.

When the reading exceeds 9999.9, distance travelled is reset and the meter automatically starts counting from 0 again.

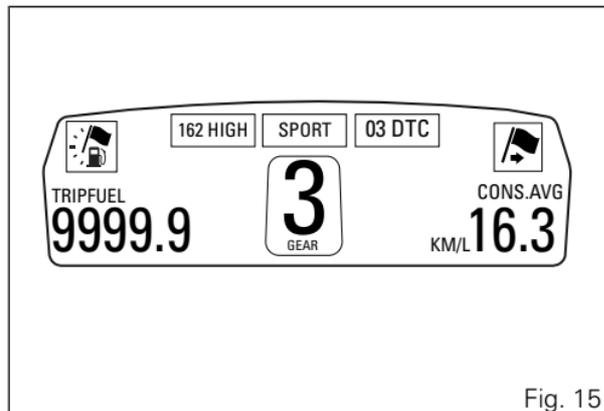


Fig. 15

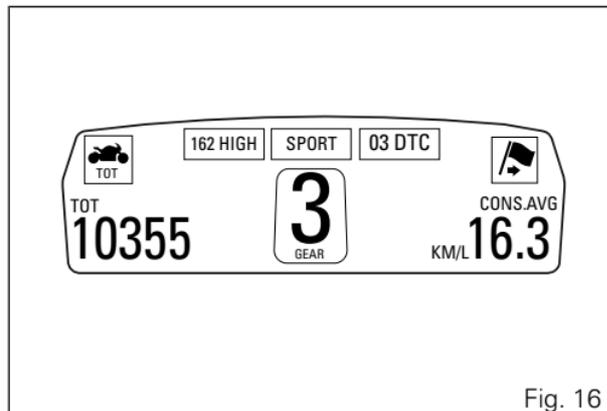
Indicator "CONS. AVG" - Average fuel consumption

This function indicates the "average" fuel consumption.

The calculation is made considering the quantity of fuel used and the distance travelled since Trip 1 was last reset. When Trip 1 is reset, the value is reset and the first value available is displayed 10 seconds after the reset. Dashes "-.-" are shown on the display during the first 10 seconds when the value is not yet available.

Value is expressed in "L / 100" (litres / 100 Km); units of measurement for "Consumption" (both average and instant values) can be changed from L/ 100 to Km/L through the Setting menu, using the Function "SET UNITS".

The active calculation phase occurs when the engine is running and the vehicle is stopped (moments when the vehicle is not moving and the engine is off are not considered).



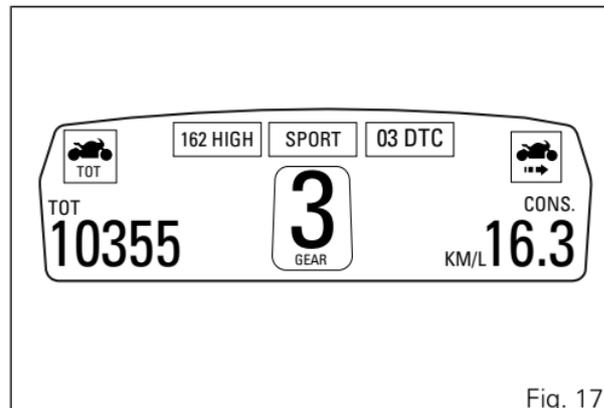
Indicator "CONS." - Instantaneous fuel consumption

This function indicates the "instantaneous" fuel consumption.

The calculation is made considering the quantity of fuel used and the distance travelled during the last second; value is expressed in "L / 100" (litres / 100 Km); units of measurement for "Consumption" (both average and instant values) can be changed from L/100 to Km/L through the Setting menu, using the Function "SET UNITS".

The active calculation phase only occurs when the engine is running and the vehicle is moving (moments when the vehicle is not moving when speed is equal to 0 and/or when the engine is off are not considered).

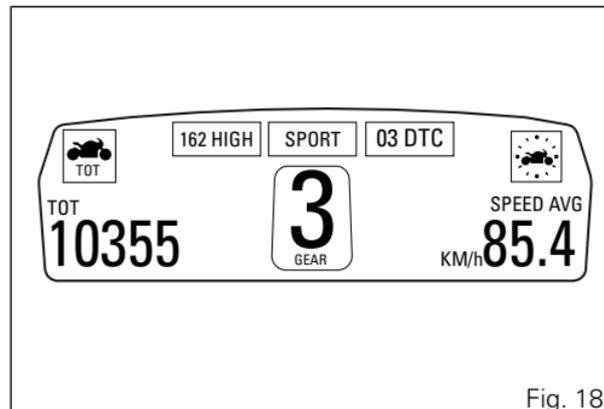
Dashes "-.-." are shown on the display when the calculation is not made.



Indicator "SPEED AVG" - Average speed

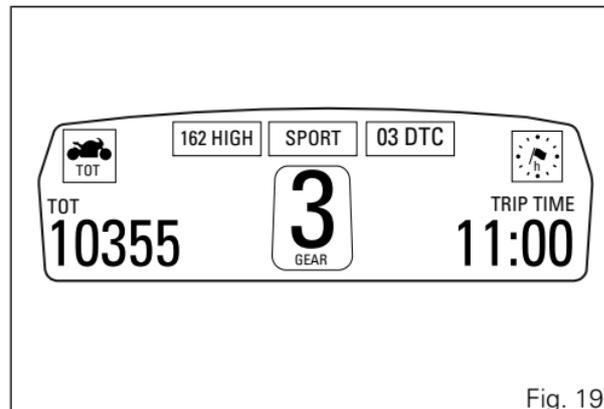
This function shows the average speed of the motorcycle. The calculation considers the distance and time since Trip 1 was last reset. When Trip 1 is reset, the value is reset and the first value available is displayed 10 seconds after the reset. Dashes "-.-" are shown on the display during the first 10 seconds when the value is not yet available.

The active calculation phase occurs when the engine is running and the vehicle is stopped (moments when the vehicle is not moving and the engine is off are not considered). The calculated value is displayed increased by 5% to align it with the vehicle indicated speed. The units of measurement for "speed" (and "distance") can be changed from Km/h (and Km) to mph (and miles) through the Setting menu with the Function "SET UNITS".



Indicator “TRIP TIME” - Trip time

This function shows the vehicle trip time. The calculation considers the time since Trip 1 was last reset. When Trip 1 is reset, this value is reset as well. The active phase calculation occurs when the engine is running and the vehicle is stopped (when the vehicle is not moving and the engine is off the time is automatically stopped and restarts when the counting active phase starts again). When the reading exceeds 511:00 (511 hours and 00 minutes) distance travelled is reset and the meter automatically starts counting from 0 again.



Indicator "AIR" - Air temperature

This function shows the external temperature.

Display range: $-39^{\circ}\text{C} \div +124^{\circ}\text{C}$.

In case of sensor FAULT (-40°C , $+125^{\circ}\text{C}$ or disconnected) a string of dashes "---" is displayed (not flashing) and the "Engine/Vehicle Diagnosis - EOBD" light turns on.



Note

When the motorcycle is stopped, the engine heat could influence the displayed temperature.

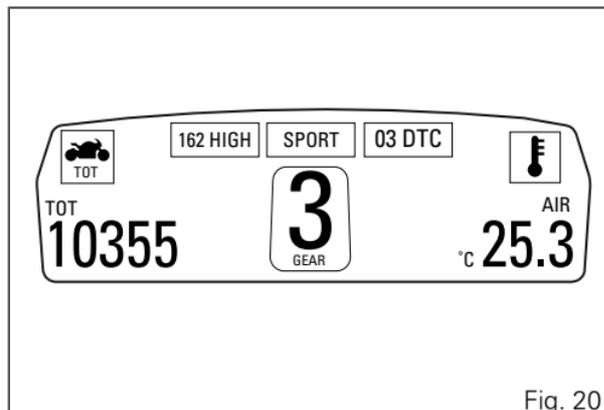


Fig. 20

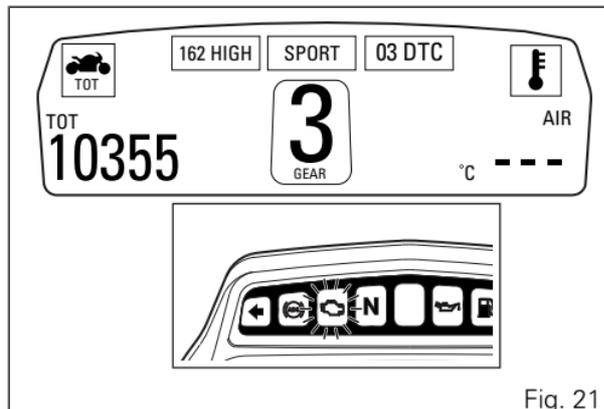


Fig. 21

When the detected temperature drops to 4°C (39°F), the display warns that the formation of ice is possible. The indication turns off when the temperature rises to 6°C (43°F).



Warning

This warning does not exclude the possibility of icy road sections even at temperatures above 4°C (39°F); when external temperatures are "low" it is always recommended to ride carefully, particularly on sections that are not exposed to the sun and/or on bridges.

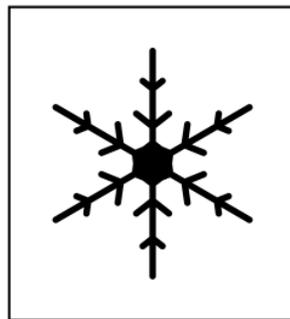


Fig. 22

Engaged gear indicator

This function displays the gears (A).

The instrument panel receives information and indicates the engaged gear or "N" for neutral.



Note

In the case of a gear sensor "error", a dash "-" (not flashing) will be displayed.

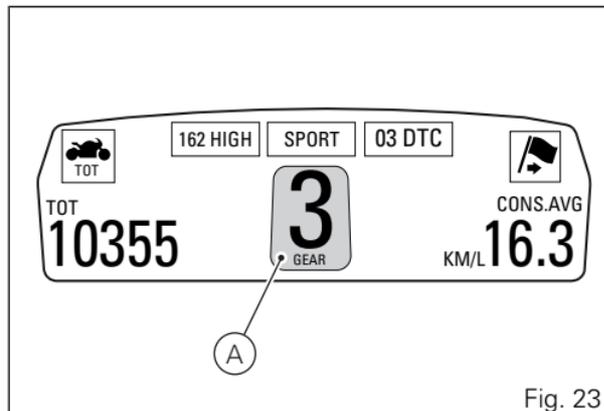


Fig. 23

"Riding Style set" indication

This function indicates the "Riding Mode" set for the vehicle.

THREE different "Riding modes" can be set: SPORT, TOURING and URBAN.

Each riding mode can be changed using the "RIDING MODE" function.

The "base" of the riding mode (SPORT, TOURING or URBAN) (A) is blue if parameters for the set riding mode are the default ones (Ducati factory settings) or yellow if one or more parameters have been modified (customised) through the Setting menu, using the function "RIDING MODE".

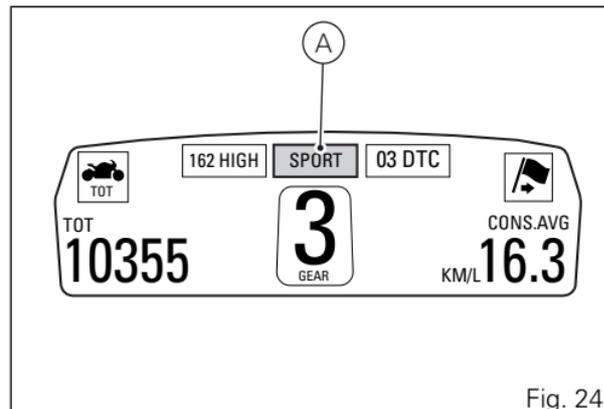


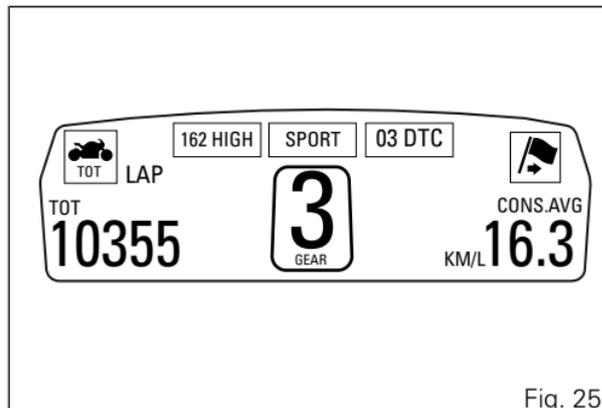
Fig. 24

Indication if the "LAP" function is active/ not active

This function indicates if the LAP function (Lap time) is active.

When "LAP" is not lit up, this means that the function has been switched off.

The "LAP" Function can be activated through the Setting menu with the Function "LAP".



“Riding Mode” function (riding style change)

This function allows changing vehicle riding mode. Each riding style is associated with a different intervention level of the traction control (DTC - Ducati Traction Control) and different engine power and output.

To change bike riding mode, simply press reset button (4) once, and the "RIDING MODE" menu will be displayed.

Press the reset button (4) several times to select the required riding mode. Press the same button for 3 seconds to confirm the riding style.

If the twistgrip is closed (vehicle stopped) the riding style change will occur immediately; if the throttle grip is open (vehicle running) the display shows "CLOSE THROTTLE TO ACTIVATE" message warning the rider to close the throttle; this message will appear for 5 seconds, during which the gas must be closed in order to activate the new riding style.

If the twistgrip is not closed after 5 seconds, the procedure is aborted (no change is made).

If the "RIDING MODE" menu is enabled and reset button (4) is not pressed for 10 consecutive seconds,

the instrument panel will automatically quit the displayed page without any setup change.



Warning

Ducati recommends changing the Riding mode when the motorcycle is stopped. If the riding mode is changed while riding, be very careful (it is recommended to change the Riding mode at a low speed).

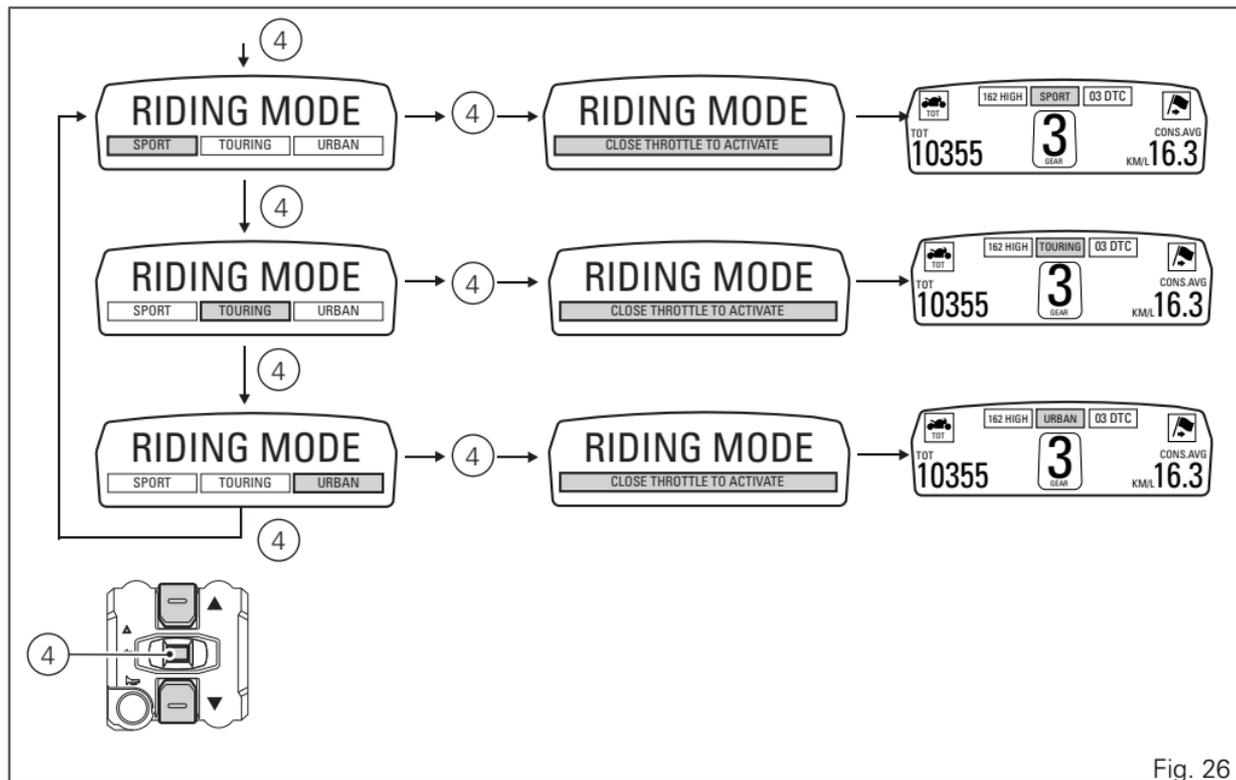


Fig. 26

Maintenance indicator

This function indicates that the vehicle is about to or has travelled a distance for which an Authorised Ducati Service Centre should be contacted to have the general maintenance or oil change performed.

Maintenance table

Indicator	Kilometres travelled	Miles travelled	count down -1000 Desmo service	count down -1000 Oil service	Desmo service	Oil service
1	1000	621				●
2	11000	6835		●		
	12000	7456				●
3	23000	14291	●			
	24000	14912			●	
4	35000	21748		●		
	36000	22369				●
5	47000	29204	●			
	48000	29826			●	
6	59000	36661		●		
	60000	37282				●
7	71000	44117	●			

Indicator	Kilometres travelled	Miles travelled	count down -1000 Desmo service	count down -1000 Oil service	Desmo service	Oil service
	72000	44739			●	
8	83000	51574		●		
	84000	52195				●
9	95000	59030	●			
	96000	59651			●	

First warning - OIL SERVICE 1000 Km

The first indicator comes on when 1000 Km (600 miles) are reached on the trip meter.

The (red) indicator will come on upon each Key-On for 10 seconds as a "big" icon (A) and then remain displayed as a small icon (B) until it is "reset".

Warning

This message can only be reset by the Ducati Dealer or Authorised Service Centre that performs the maintenance.

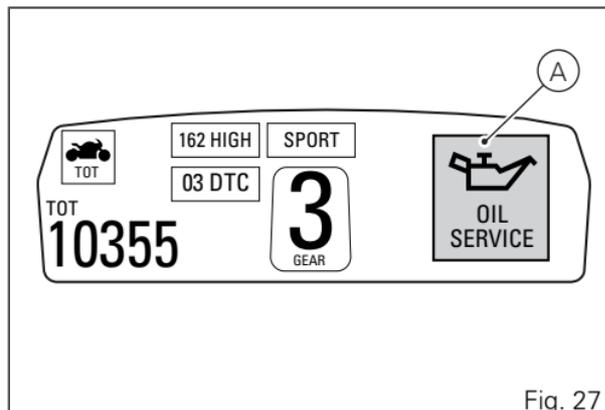


Fig. 27

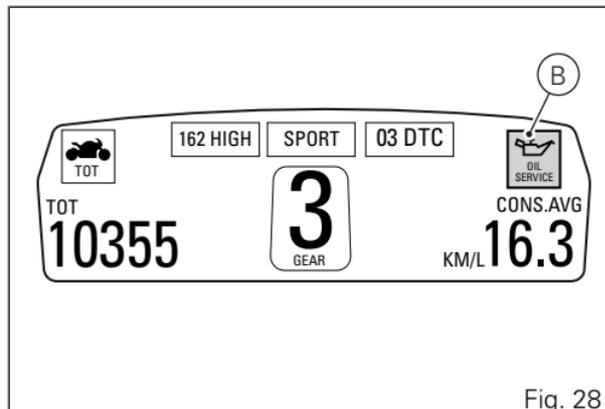


Fig. 28

Residual range indication when the SERVICE is due

After the "OIL SERVICE" indicator has been "reset" for the first time (after 1,000 km), upon every Key-On the system will show the following service indicator (OIL SERVICE "A" and "B" or DESMO SERVICE "C" and "D") as well as the mileage countdown indicator.

(A) and (C) (green) indicators are activated upon every Key-On, for 2 seconds; 1000 km before the threshold, (B) and (D) (amber yellow) indicators are activated upon every Key-On, for 5 seconds.



Warning

This message can only be reset by the Ducati Dealer or Authorised Service Centre that performs the maintenance.

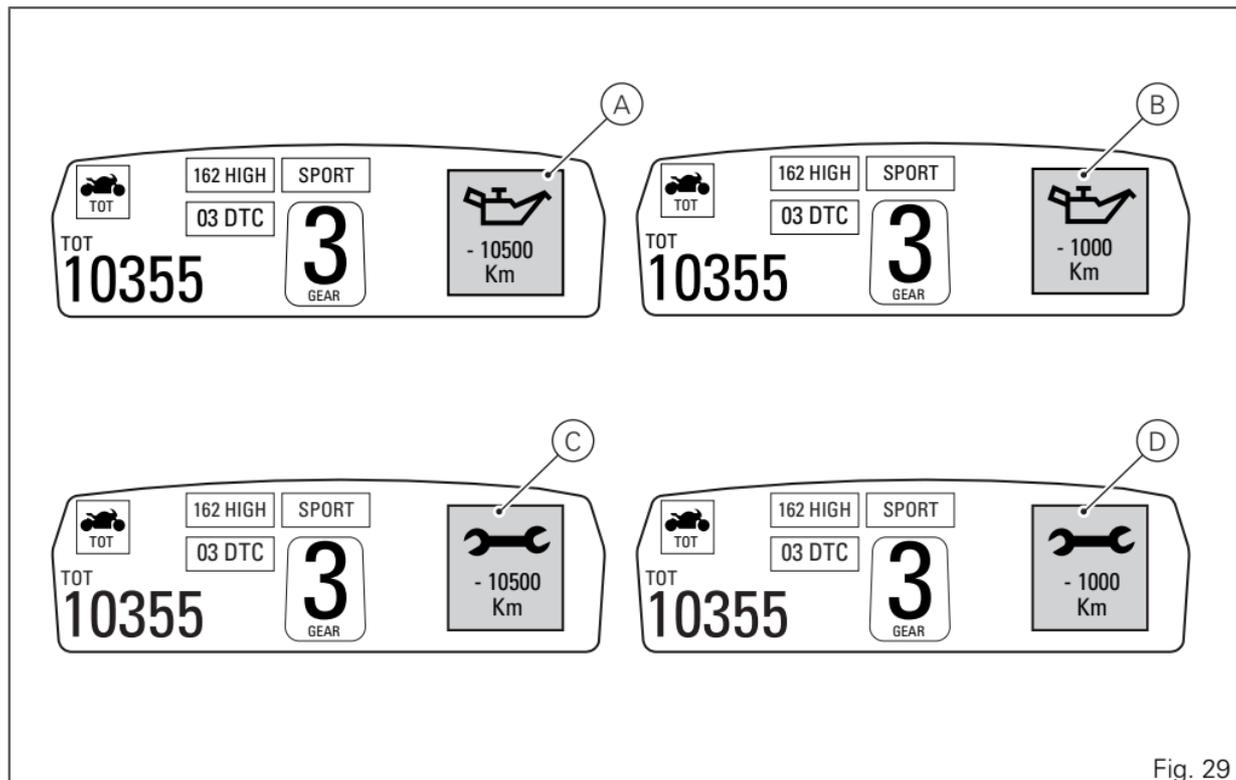


Fig. 29

Indication of range reached for SERVICE

Whenever the threshold required to carry out a maintenance operation is reached, the type of operation to be carried out (OIL SERVICE "A" and "B" or DESMO SERVICE "C" and "D") will come on upon each Key-On.

The (red) indicator will come on upon each Key-On for 10 seconds as a "big" icon (A) and (C) and then remain displayed as a small icon (B) and (D) until it is "reset". After reset, the system will display again the type of intervention required next and the residual range (as described in the previous paragraph).



Warning

This message can only be reset by the Ducati Dealer or Authorised Service Centre that performs the maintenance.

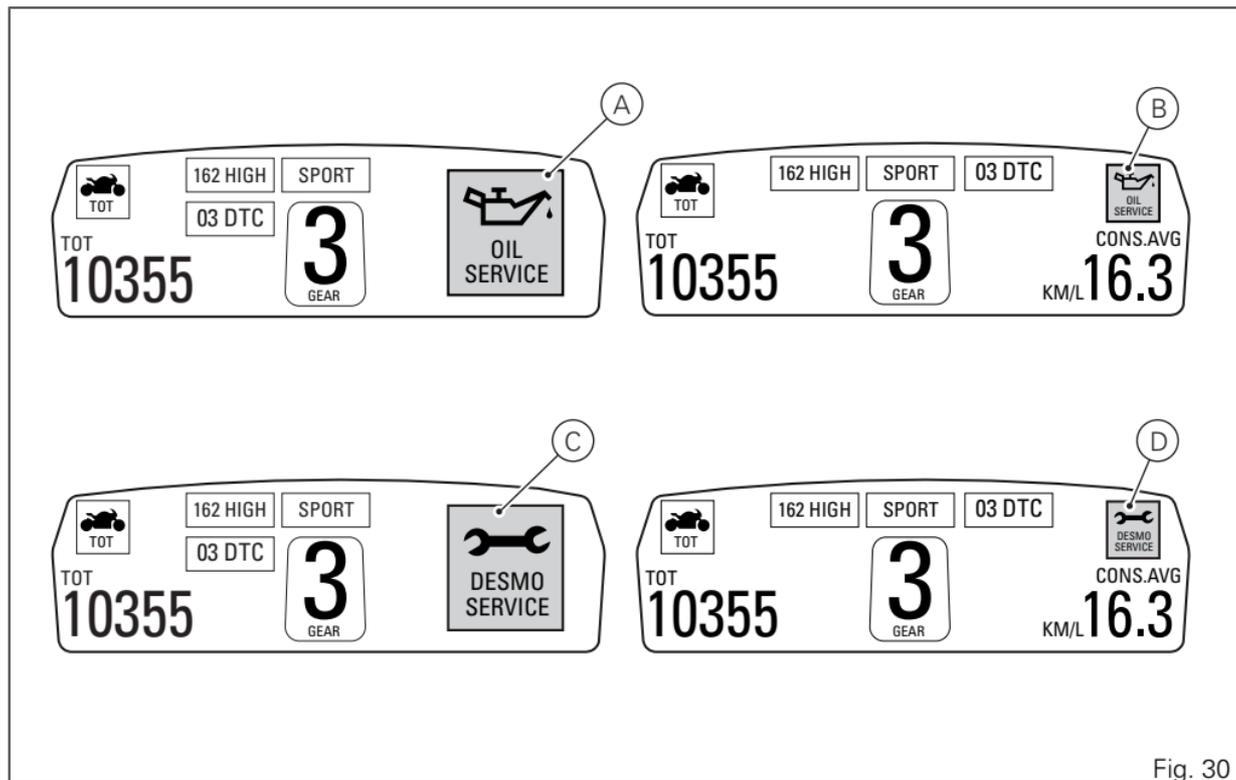


Fig. 30

Warning indication (Alarms/Signals)

The instrument panel activates in real-time some warnings / malfunction that are not dangerous for the correct operation of the vehicle.

Upon Key-On (after the check routine) one or more "warnings" are displayed, if active. Whenever a "warning" is activated, the (amber yellow) indication is well visible on display for 10 seconds (A) and then becomes smaller (B).

If there are several warnings, they are displayed one by one every 3 seconds in a "rolling" sequence.



Note

Under these circumstances (one ore more warnings present) no warning light will come on.

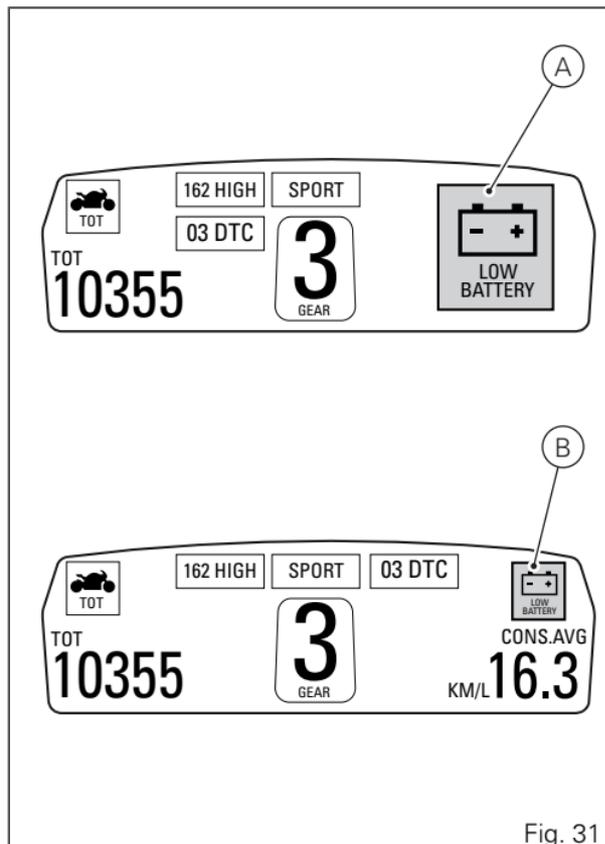


Fig. 31

The "warnings" that could be displayed are the following:

- "Low" battery level (LOW BATTERY);
- Traction Control "disabled" (DTC OFF);
- Hands Free (HF) Key "not recognised";
- "Low" Hands Free (HF) Key battery level;
- "High" engine coolant temperature (HIGH TEMP);
- Steering unlock error;
- Steering still locked (Unlock error).

“Low” battery level

This (amber yellow) "warning" indicates that vehicle battery is low.

It is activated when battery voltage is equal to or lower than 11.0 V.



Note

In this case, Ducati recommends charging the battery as soon as possible with the specific device, as it is possible that the vehicle will not start.

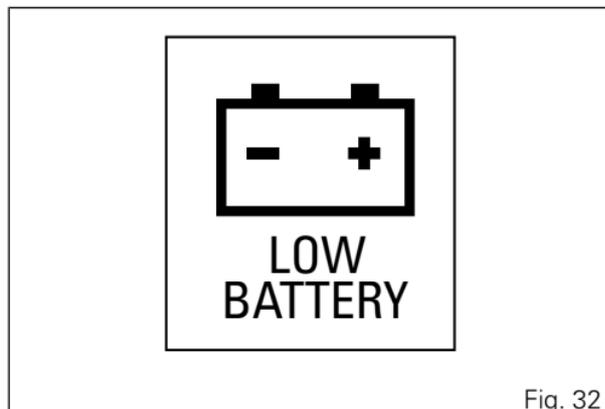


Fig. 32

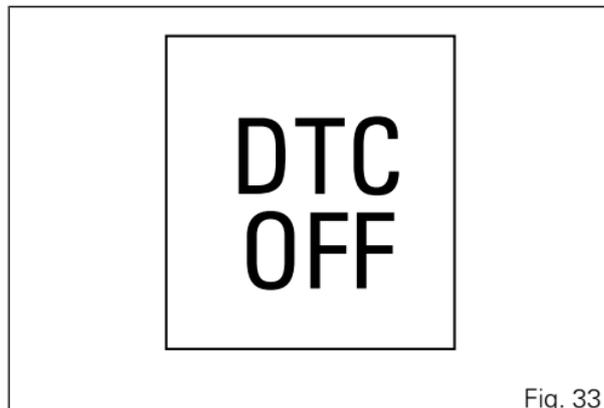
Traction Control (DTC) deactivated

This (amber yellow) "warning" indicates that DTC (Ducati Traction Control) is disabled.



Note

In this case, Ducati recommends being very careful when riding as the vehicle behaviour will be different in comparison to when operating with the Traction Control activated.



Hands Free key (HF) not recognised

The activation of this (amber yellow) "warning" indicates that the Hands Free system does not detect the active key near the vehicle.



Note

In this case, Ducati recommends checking that the active key is near the vehicle (and has not been lost) and that it functions properly.



Fig. 34

"Low" Hands Free key (HF) battery level

The activation of this (amber yellow) "warning" indicates that the Hands Free system has detected that the battery that permits the active key to communicate and turn the vehicle on is almost discharged.



Note

In this case, Ducati recommends replacing the battery as soon as possible.

Replace the battery as described in the paragraph "Replacing the active key battery" page 110.



Fig. 35

“High” engine coolant temperature

This (amber yellow) “warning” indicates that coolant temperature is high.

It is activated when the temperature reaches 121°C (250°F).



Note

In this case, Ducati recommends stopping and shutting off the engine immediately; ensure that fans are on.

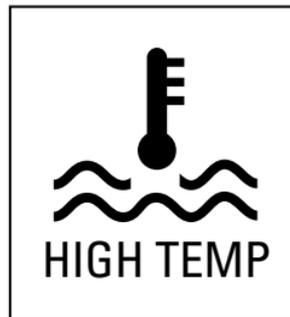


Fig. 36

Steering release error - Steering still locked

This (amber yellow) "warning" indicates that the Hands Free system could not unlock the steering.



Warning

In this case, Ducati recommends turning the vehicle off and on (Key-Off / Key-On) holding the handlebar pressed down to the end stop. If the signal remains (and the steering does not "release") contact a Ducati Dealer or Authorised Service Centre.



Fig. 37

Instrument panel diagnosis

This function identifies any abnormal vehicle behaviours. The instrument panel activates any abnormal vehicle behaviours in real time (ERRORS). At Key-On (at the end of the check) one or more "ERRORS" are displayed in red (only if they are active). Whenever an "error" is activated, the (red) indication is well visible on display for 10 seconds (A) and then becomes smaller (B).

If there are several errors, they are displayed one by one every 3 seconds in a "rolling" sequence. Under these circumstances (one or more errors present) the Engine/vehicle diagnosis - "EOBD" warning light on the handlebar instrument panel will always come on.

Possible errors are listed in the table below.

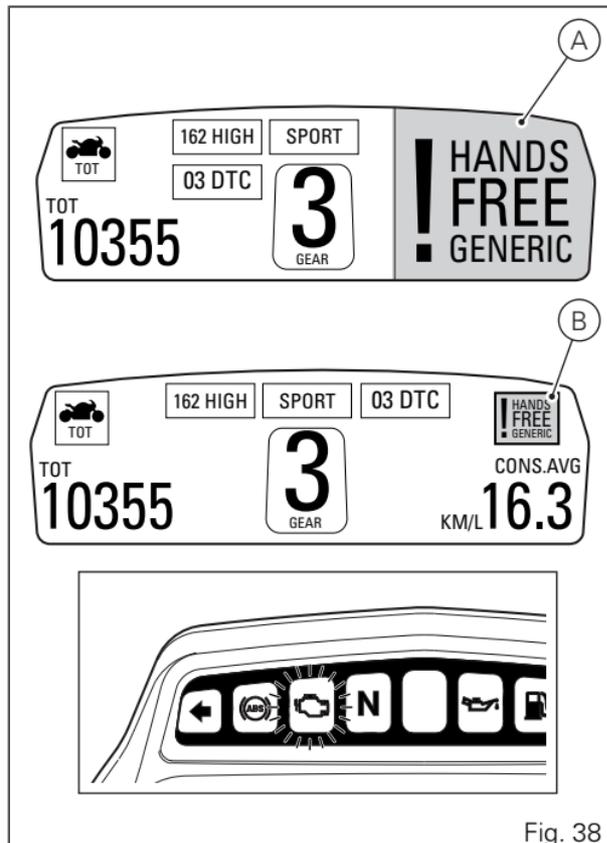


Fig. 38



Warning

When one or more errors are displayed, always contact a Ducati Dealer or authorised Service Centre.

ERROR MESSAGE	ERROR
BBS/DTC	Traction Control / Black Box Control Unit
GEAR SENSOR	Gear sensor
FUEL SENSOR	Fuel Level Sensor
SPEED SENSOR	Speed Sensor
EXVL SYSTEM	Exhaust Valve Starter Motor
UNKNOW DEVICE	Unknown Control Unit
ECU DEVICE	Faulty ECU control unit
DSB SLAVE DEVICE	Faulty handlebar instrument panel
HANDS FREE DEVICE	Faulty Hands Free control unit
BBS DTC DEVICE	Faulty Traction Control / Black Box Control Unit
THROTTLE POSITION	Wrong Throttle Position
THROTTLE POSITION	Wrong Throttle Position
ETV	Faulty Motor relay or Throttle Motor
DBS MASTER DEVICE	Faulty fuel tank instrument panel
PRESSURE SENSOR	Atmospheric Pressure Sensor

ERROR MESSAGE	ERROR
ENGINE TEMP.	Engine Temperature Sensor
T-AIR SENSOR	Air Temperature Sensor
FUEL INJECT.	Injection relay
COIL	Coil
INJECTOR	Injector
PICK UP	Timing/rpm sensor
LAMBDA	Lambda Sensor
FAN RELAY	Fan Relay
CAN LINE	CAN Communication Line
BATTERY	Battery Voltage (HIGH or LOW)
ABS DEVICE	Faulty ABS control unit
STOP LIGHT	Rear Stop Light
ECU GENERIC	ECU Control Unit Error
KEY	HF Communication Problem
HANDS FREE GENERIC	Hands Free Control Unit Error

“Setting” menu

This menu allows enabling, disabling and setting some vehicle functions.

To access the "setting menu" press the button (2) for 3 seconds.

When within this menu no other function can be displayed.



Important

For safety reasons, the setting menu can only be accessed when motorcycle speed is lower than or equal to 20 km/h. If this menu is open and the speed of the motorcycle exceeds 20 km/h, the instrument panel automatically exits the menu and returns to the "main" display.

The setting menu contains the following "items":

- RIDING MODE
- MENU 2
- BACK LIGHT
- RPM
- PIN CODE
- LAP
- BATTERY

- CLOCK
- SET UNITS
- ABS
- EXIT

To quit the setting menu, use button (1) or button (2) to select "EXIT" and press the reset button (4).

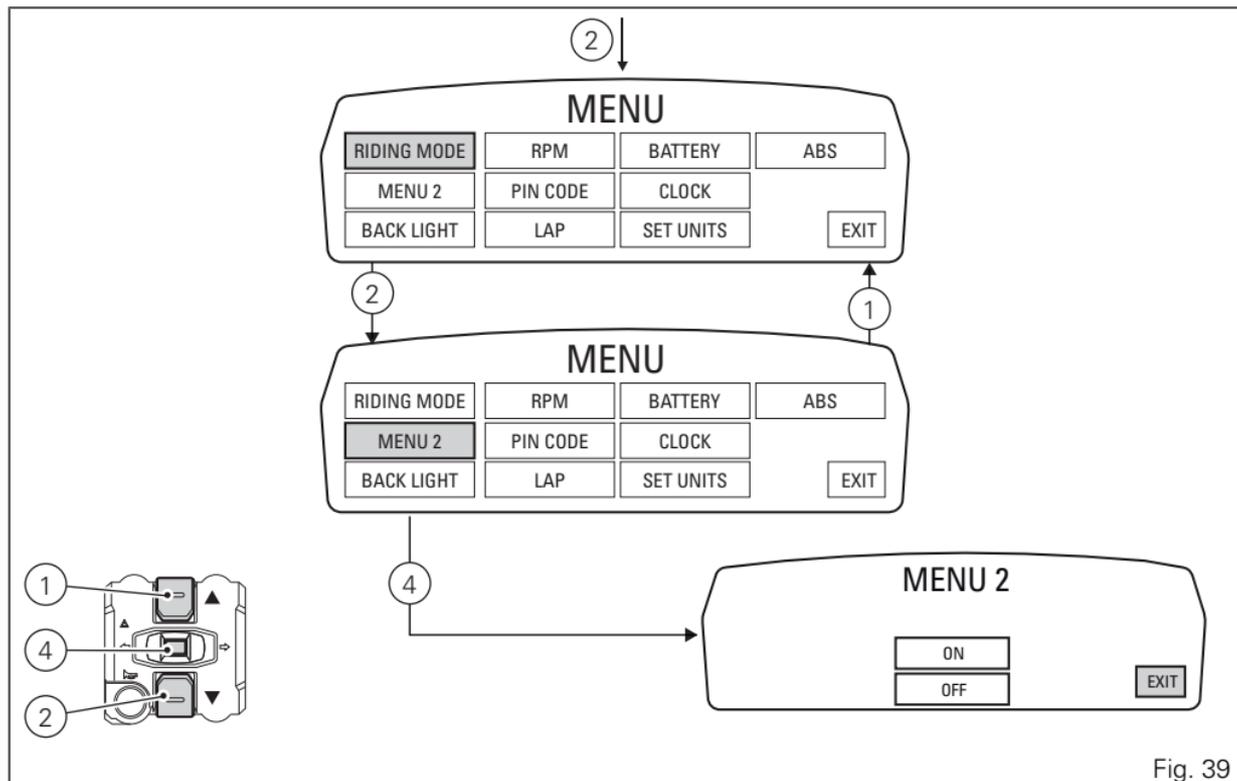


Fig. 39

“Riding Mode” customisation

This function customises each riding style.

To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "RIDING MODE" function, and press the reset button (4) to go to next page.

To customise the parameters, use button (1) or (2) to select the riding mode to be changed and press the reset button (4) to confirm.

The parameters that can be "customised" are "DTC" (Ducati Traction Control) and "ENGINE".

Any parameter change made is saved in the memory also after a Battery-Off.

To change the DTC parameters see the "DTC (Ducati Traction Control)" page 72.

To change the Engine parameters see the "ENGINE (engine power control)" page 77.

The parameters set by Ducati for each individual riding style can be restored with the "DEFAULT" function.

To reset the "default" parameters set by Ducati see the "DEFAULT (Resetting Ducati default parameters)" page 79.

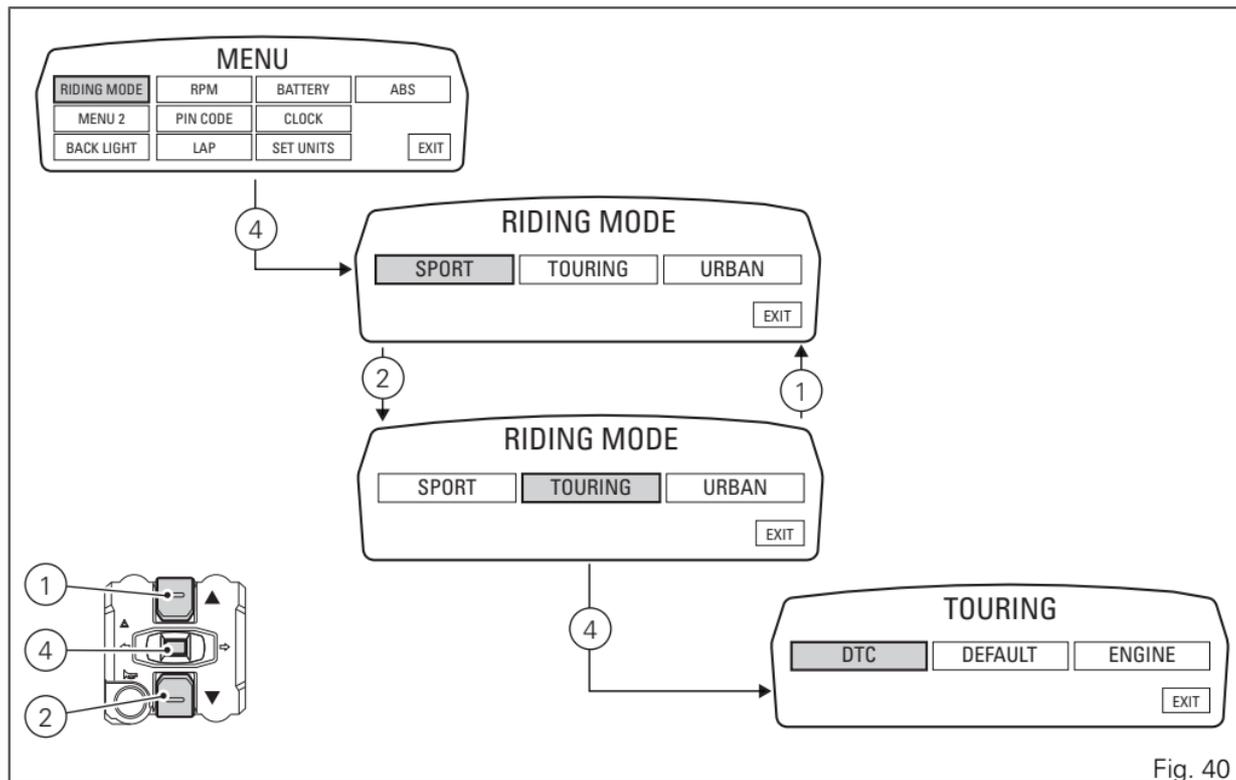


Fig. 40



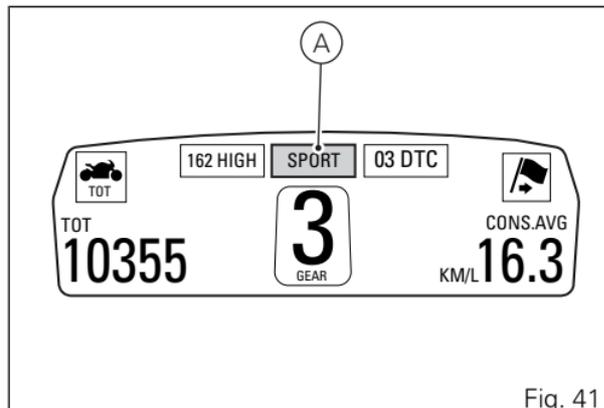
Note

If the parameters have not been modified (customised) or are reset using the "DEFAULT" function, when you quit the Setting menu, in the "main" screen, the "background" indicating the riding style (SPORT, TOURING or URBAN) becomes blue.



Warning

Changes should only be made to the parameters by people who are experts in motorcycle set-up; If the parameters are changed accidentally, use the "DEFAULT" function to reset the parameters.



DTC (Ducati Traction Control) setting function

This function allows you to customise the level of DTC intervention (Ducati Traction Control) or disable it for every riding mode.

To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "RIDING MODE" function, and press the reset button (4) to go to next page.

Use button (1) or (2) to select the riding style to change and press the reset button (4).

use button (1) or (2) to select the "DTC" indication and press the reset button (4) again to confirm selection. When accessing the function, the currently set DTC level appears at the left-hand side of the display, inside a rectangle (ex.: DTC 1).

Use button (1) or (2) to select the new intervention level (1 to 8) or OFF to disable the Traction Control; after selecting the new setting, press the reset button (4) to highlight "MEMORY" indication.

At this point, store the new setting by pressing the reset button (4) for 3 seconds with "MEMORY" displayed.

If the setting has been stored successfully, the display will show "MEMORIZED" in green for 2

seconds and the "EXIT" option will be highlighted automatically.

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

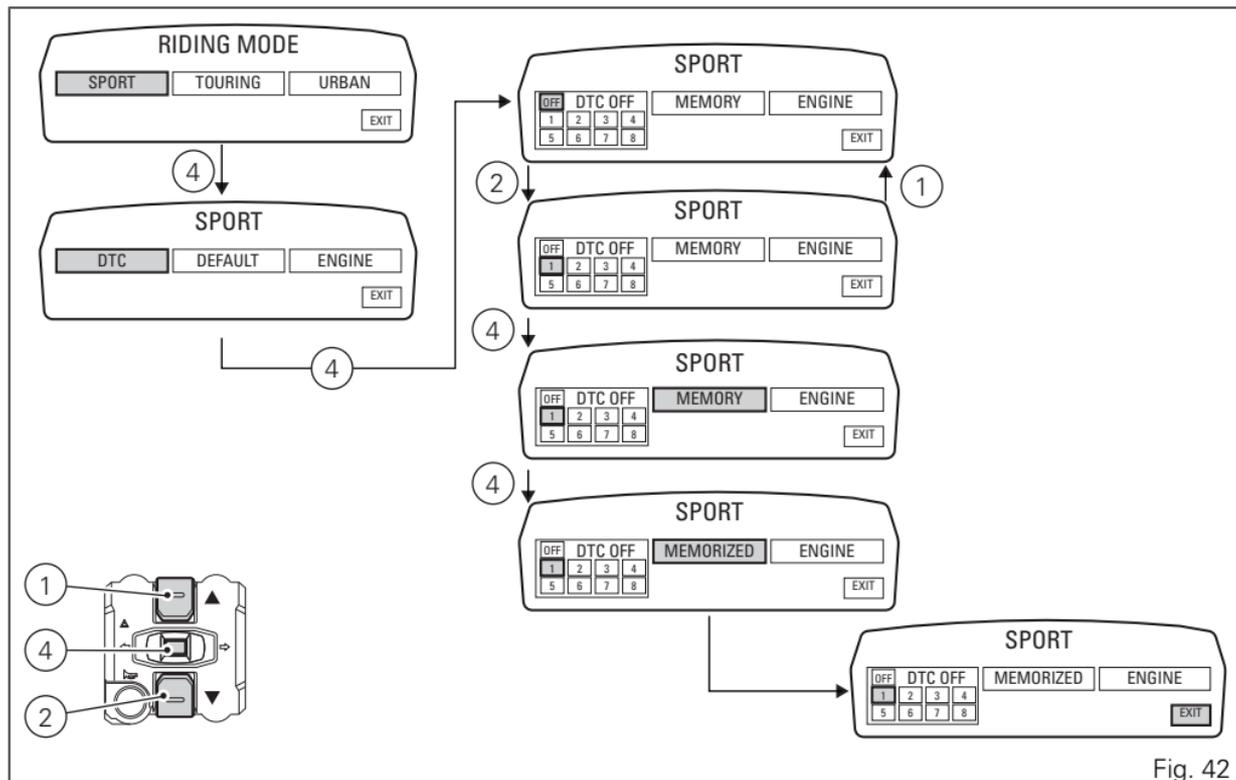


Fig. 42

The DTC intervention increases, passing from level 1 to level 8. The following table indicates the most suitable level of DTC intervention for the various riding types as well as the default settings in the "RIDING MODE" that can be selected by the rider:

DTC LEVEL	RIDING MODE	USE	DEFAULT?
1	Sport	Sporty riding on a road for expert users and on track	It is the default setting of the SPORT RIDING MODE
2	Sport-Touring	Riding on a road for expert users	/
3	Touring	Normal riding on a road	It is the default setting of the TOURING RIDING MODE
4	Touring 2	Normal riding on a road for less expert users	/
5	Urban	Riding in town	It is the default setting of the URBAN RIDING MODE
6	Urban 2	Riding in town for less expert users	/
7	Wet	Riding with damp ground	/
8	Rain	Riding with wet ground	/

Tips on how to select the sensitivity level



Warning

The 8 level settings of the DTC were calibrated using tyres of the same make, model and size as those originally fitted to the motorcycle. The use of tyres of different size to the original tyres may alter the operating characteristics of the system.

Motorcycle original tyres: (front 120/70-17 - rear 240/45-17).

In the case of minor differences, such as for example tyres of a different make and/or model than the OE ones, but with the same size (rear = 240/45-17; front = 120/70-17), it may be sufficient to simply select the suitable level setting from those available to restore optimal system operation. If tyres of a different size class are used or if the tyre dimensions differ significantly from the original tyres, it may be that the system operation is affected to the point where none of the 8 available level settings will give satisfactory results. In this case it is advisable to deactivate the traction control system. If level 8 is selected, the DTC control unit will kick in at the slightest hint that the rear wheel is starting to spin.

Between level 8 and level 1 there are a further 6 intermediate levels. The level of DTC intervention decreases in equal steps from level 8 to level 1. Levels 1 and 2 are specifically designed for OFF-ROAD conditions and do not ensure a suitable control with poor grip on asphalt.

When level 3 or 4 is selected the DTC control unit will allow the rear wheel to spin and also slide sideways on exiting a corner; we recommend that this setting is only used by very experienced riders on the track. The choice of the correct level depends on 3 main variables:

- 1) The grip (type of tyre, amount of tyre wear, the road/track surface, weather conditions, etc.);
- 2) The characteristics of the path/circuit (bends all taken at similar speeds or at very different speeds);
- 3) The riding mode (whether the rider has a "smooth" or a "rough" style).

The relation of the DTC intervention level to grip conditions:

The choice of level setting depends greatly on the grip conditions of the track/circuit (see below, tips for use on the track and on the road).

The relation of the DTC intervention level to the circuit characteristics:

If all the corners on the track/circuit can be taken at a similar speed, it will be easier to find an intervention level that is satisfactory for every bend; on the other hand, if the track has, for example, one corner that is much slower than all the others, it will be necessary to find a compromise level (on the slow corner the DTC will tend to kick in more than on the faster corners).

The relation of the DTC intervention level to riding mode:

The DTC will tend to kick in more with a "smooth" riding style, where the bike is leaned over further, rather than with a "rough" style, where the bike is straightened up as quickly as possible when exiting a turn.

Tips for use on the track

We recommend that level 8 is used for a couple of full laps (to allow the tyres to warm up) in order to get used to the system. Then try levels 7, 6, etc., in succession until you identify the DTC sensitivity level that suits you best (always try each level for at least two laps to allow the tyres to warm up).

Once you have found a satisfactory setting for all the corners except one or two slow ones, where the system tends to kick in and control too much, you can try to modify your riding style slightly to a more "rough" approach to cornering i.e. straighten up more rapidly on exiting the corner, instead of immediately trying a different level setting.

Tips for use on the road

Activate the DTC, select level 8 and ride the motorcycle in your usual style; if the level of DTC sensitivity seems excessive, try reducing the setting to level 7, 6, etc., until you find the level that suits you best.

If changes occur in the grip conditions and/or circuit characteristics and/or your riding style, and the level setting is no longer suitable, switch to the next level up or down and proceed to determine the best setting (e.g. if with level 7 the DTC intervention seems excessive, switch to level 6; alternatively, if on level 7 you cannot perceive any DTC intervention, switch to level 8).

ENGINE setting function (Engine Power Control)

This function customises engine power and output. To access the function it is necessary to view the "setting" menu page page 67, use button (1) or (2) to select the "RIDING MODE" function, and press the reset button (4) to go to next page.

Use button (1) or (2) to select the riding mode to be changed and press the reset button (4) to access next page; now, using button (1) or (2) select "ENGINE" and press the reset button (4) again to confirm the selection.

When accessing the function, the engine setting (ENGINE 162 HIGH, 162 LOW or 100 HP) appears at the right-hand side of the display, inside a rectangle.



Note

In Japan and France versions, the display displays the settings (ENGINE HIGH, MIDDLE or LOW).

Using button (1) or (2) select one of the three available engine settings; after selecting the new setting, press the reset button (4) to highlight the "MEMORY" indication.

At this point, store the new setting by pressing the reset button (4) for 3 seconds with "MEMORY" displayed.

If the setting has been stored successfully, the display will show "MEMORIZED" in green for 2 seconds and the "EXIT" option will be highlighted automatically.

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

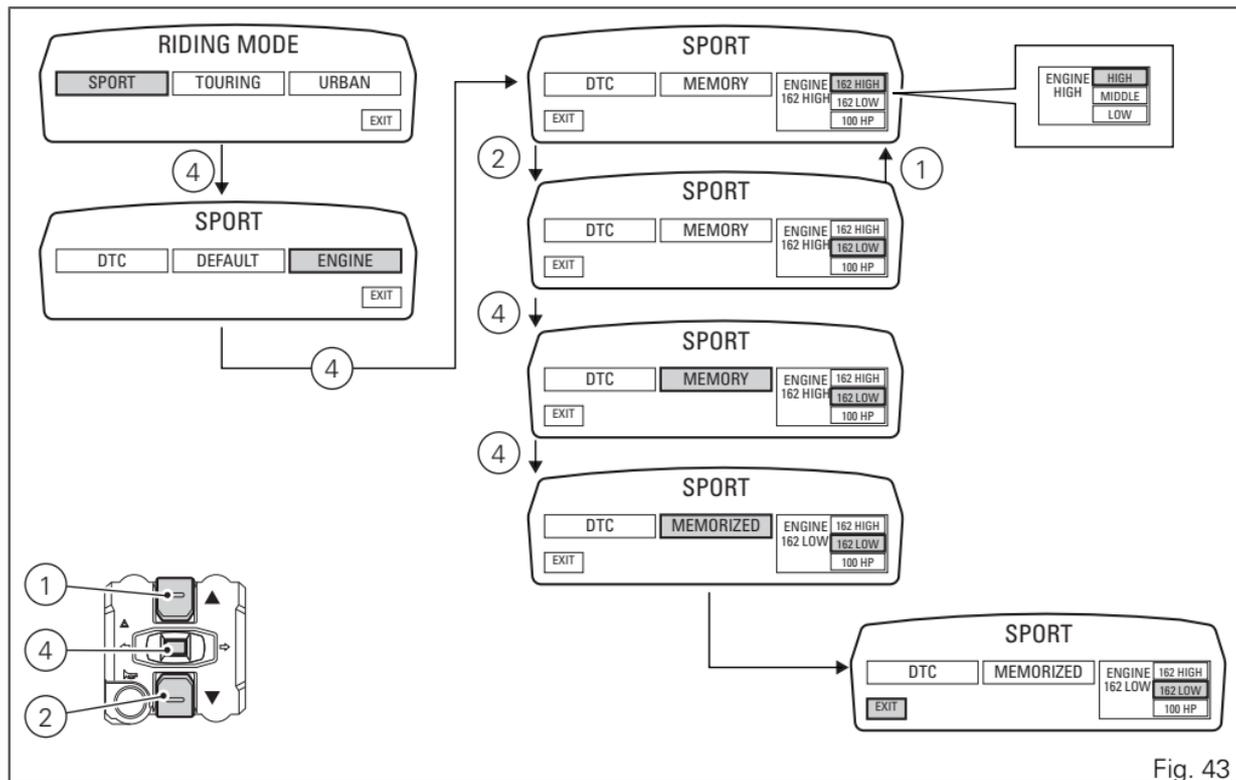


Fig. 43

DEFAULT function (Resetting Ducati default parameters)

This function resets the parameters set by Ducati for each riding style. To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "RIDING MODE" function, and press the reset button (4) to go to next page. Use button (1) or (2) to select the riding mode to be reset to default (initial) parameters and press button (4) to go to the next page; now use button (1) or (2) to select the "DEFAULT" indication.

To restore original default parameters, keep the reset button (4) pressed for 3 seconds. To restore parameters, the system needs approximately 3 seconds; meanwhile, "PLEASE WAIT..." indication is displayed. Once procedure is completed, the display shows "DEFAULT OK" to confirm that parameters have been reset to factory settings.

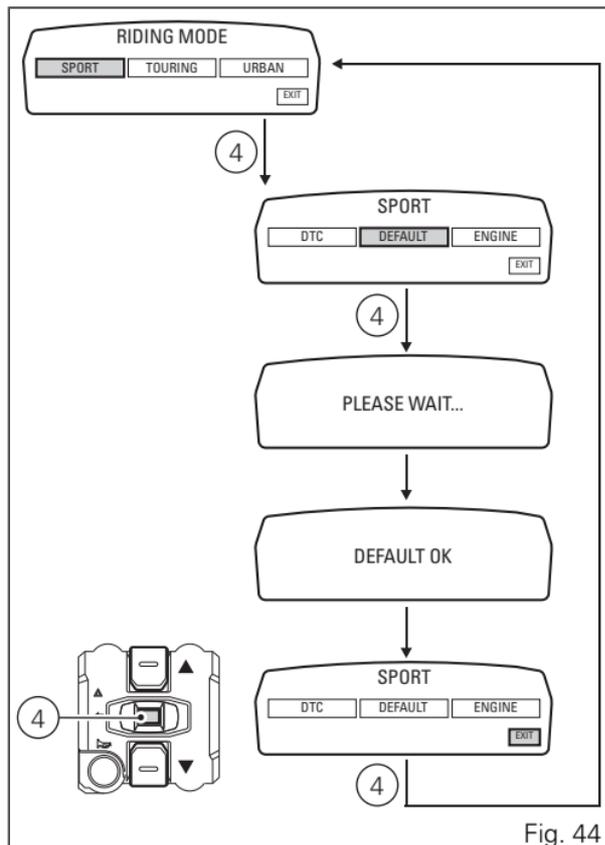


Fig. 44



Important

This procedure restores the parameters for all riding styles.

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

Menu 2 On/Off function

This function allows to turn Menu 2 (B) off and to turn Menu 2 (A) on.

If Menu 2 is disabled, the functions for average fuel consumption (CONS.AVG), instantaneous fuel consumption (CONS.), average speed (SPEED AVG), trip time (TRIP TIME) and air temperature (AIR) will no longer be displayed in the "main screen".

Nevertheless, all these functions will keep on their counters so that when Menu 2 is re-enabled data will be updated and consistent.

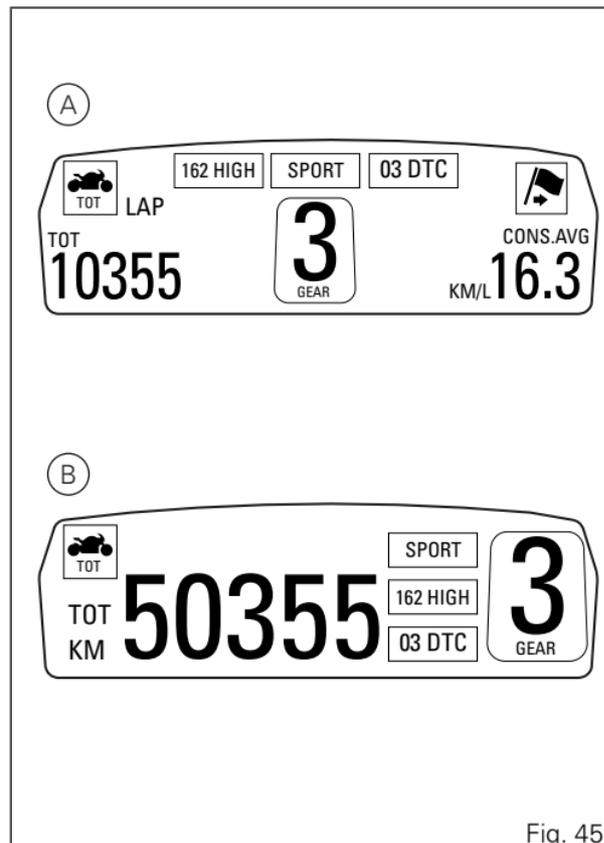


Fig. 45

To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "MENU 2" function and press reset button (4) to go to next page.

Function state is highlighted on the display (ON in green or OFF in yellow).

Use button (1) or (2) to shift the arrow on the left onto the new setting and confirm by pressing the reset button (4).

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

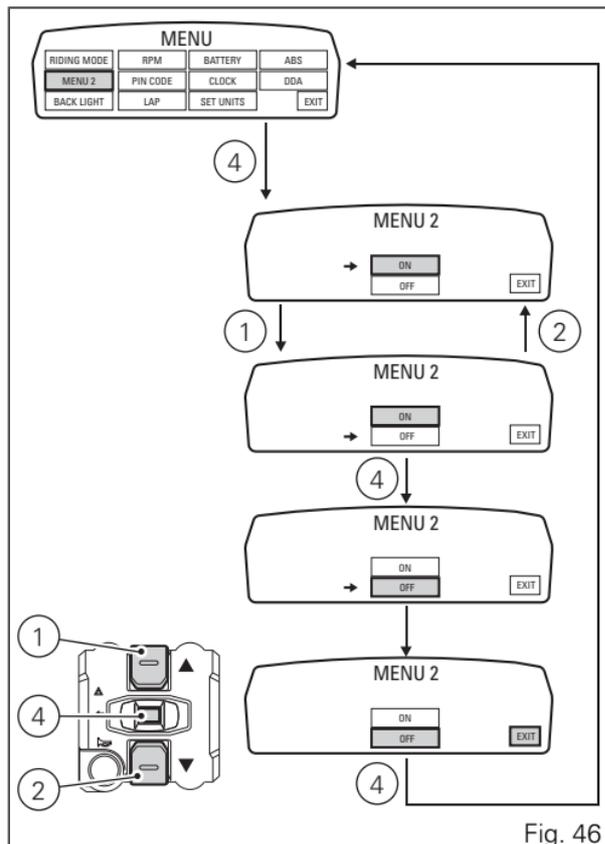


Fig. 46

Background setting function for the instrument panel on tank - DASHBOARD 1

This function allows setting the "background" of the instrument panel on tank.

To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "BACK LIGHT" function and press the reset button (4) to go to next page.

Use button (1) or (2) to select the "DASHBOARD 1" function and confirm by pressing the reset button (4). Once you enter the "DASHBOARD 1" function, setting is highlighted on the display (DAY, NIGHT or AUTO in green); use button (1) or (2) to shift the arrow on the left onto the new setting and confirm by pressing the reset button (4).

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

"DAY" setting: instrument panel background becomes permanently "white" to improve readout view - recommended with bright exterior lighting.

"NIGHT" setting: instrument panel background becomes permanently "black" for a more dimmed visibility - recommended with poor exterior lighting and/or dark.

"AUTO" setting: instrument panel background is set automatically according to exterior lighting conditions (detected by a sensor) and will be "black" for a more dimmed visibility with poor exterior lighting and "white" for an improved readout view with bright exterior lighting.



Note

In the event of an interruption of the power supply from the battery, when power is restored at the next Key-On, the backlighting will always be set by default to "AUTO" mode.

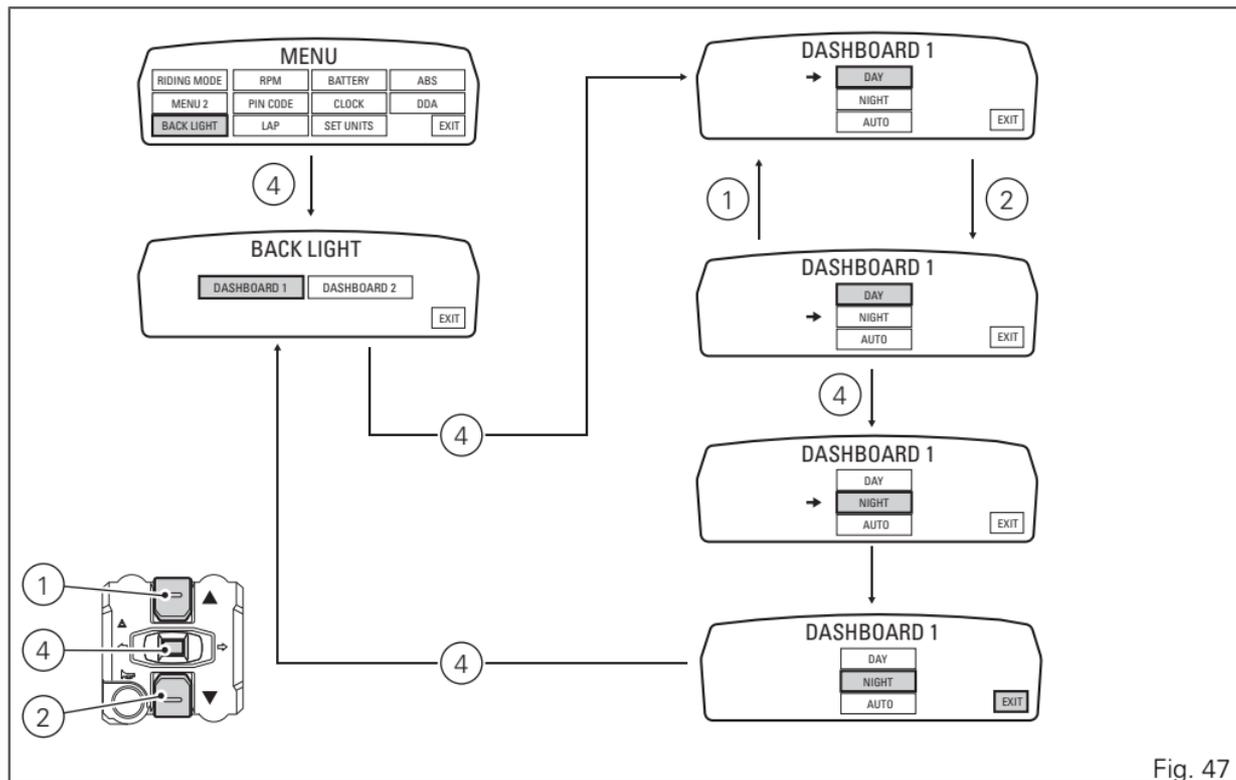


Fig. 47

Backlighting setting function for the instrument panel on handlebar - DASHBOARD 2

This function allows backlighting setting of the instrument panel on handlebar.

To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "BACK LIGHT" and press reset button (4) to go to next page.

Use button (1) or (2) to select the "DASHBOARD 2" function and confirm by pressing the reset button (4). Once you enter the "DASHBOARD 2" function, setting is highlighted on the display (MAX, MIDDLE or MIN in green); use button (1) or (2) to shift the arrow on the left onto the new setting and confirm by pressing the reset button (4).

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

Select "MAX" setting and the background of the instrument panel on handlebar permanently sets backlighting to maximum power to improve readout view - recommended with bright exterior lighting.

Select "MIDDLE" setting and the background of the instrument panel on handlebar permanently sets reduced backlighting to 30% of its maximum power

for dimmed visibility - recommended with poor exterior lighting.

Select "MIN" setting and the background of the instrument panel on handlebar permanently sets reduced backlighting to 50% of its maximum power for dimmed visibility - recommended with very poor exterior lighting and/or dark.

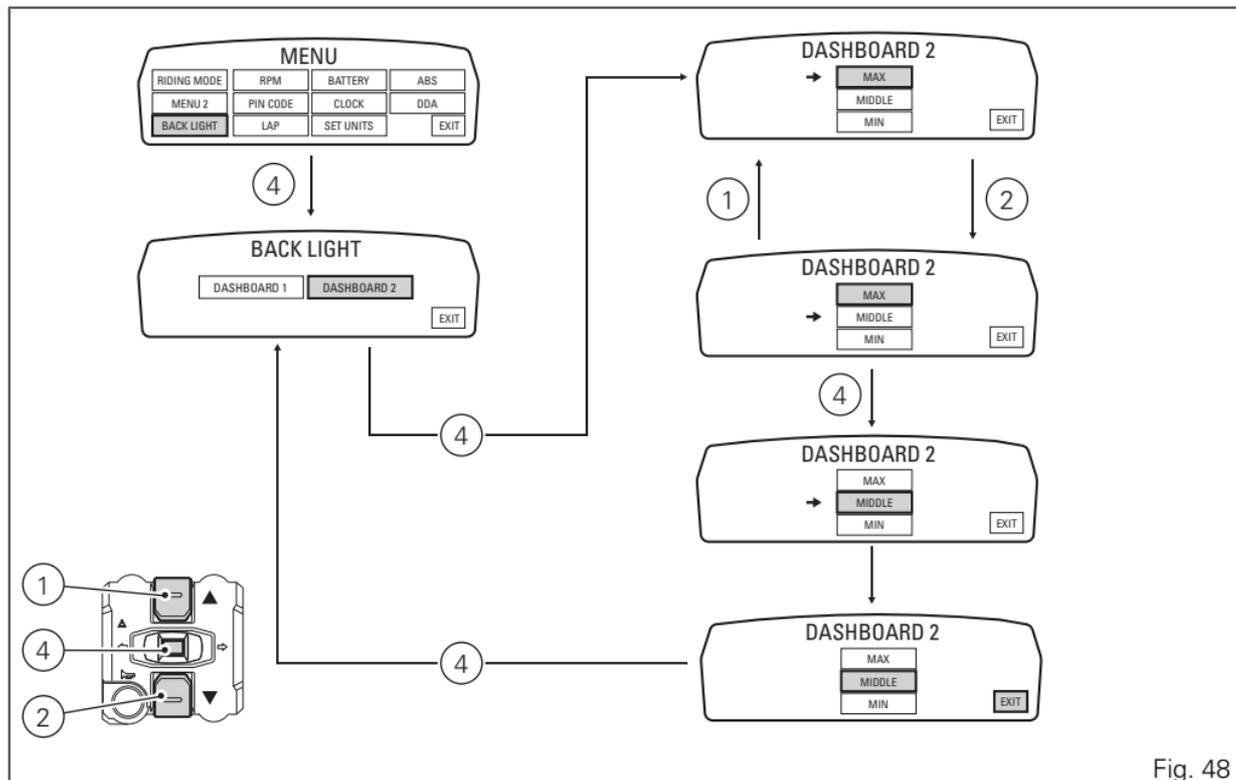


Fig. 48

Digital RPM indication function

This function displays the number of RPM for improved accuracy when setting idle rpm.

To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "RPM" function and press the reset button (4) to confirm.

The display shows the numerical value of the RPM with a precision of 50 rpm.

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

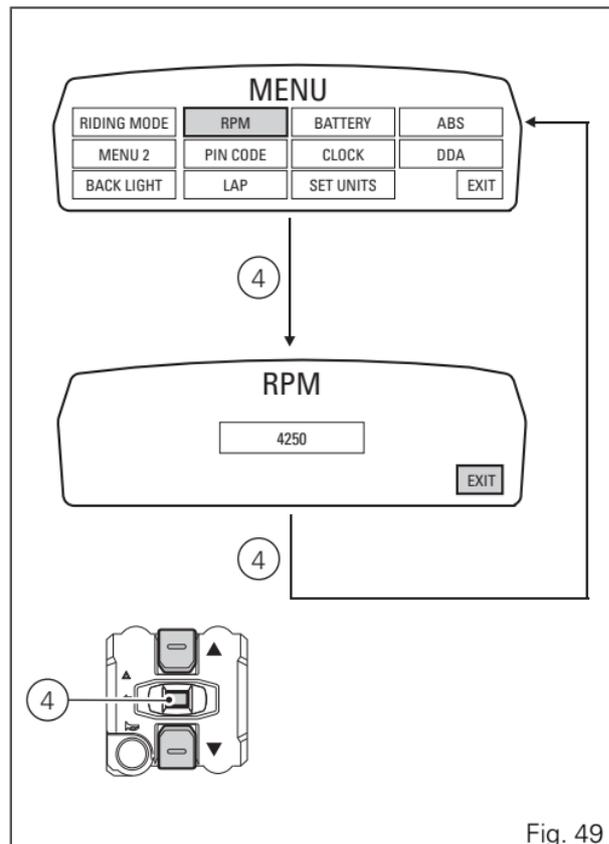


Fig. 49

LAP Activation/Deactivation function (lap time)

This function activates and deactivates the LAP function (lap time).

To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "LAP" function and press reset button (4) to go to next page.

The function setting is highlighted on the display (ON in green or OFF in yellow); use button (1) or (2) to shift the arrow on the left onto the new setting and confirm by pressing the reset button (4).

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

Storing the "OFF" condition disables the LAP function. Storing the "ON" condition enables the LAP function (see "LAP registration" paragraph page 90).



Note

When the "LAP" function is active, the flash button (3) takes on the dual function of high beam headlight "flash" and lap time Start/Stop.

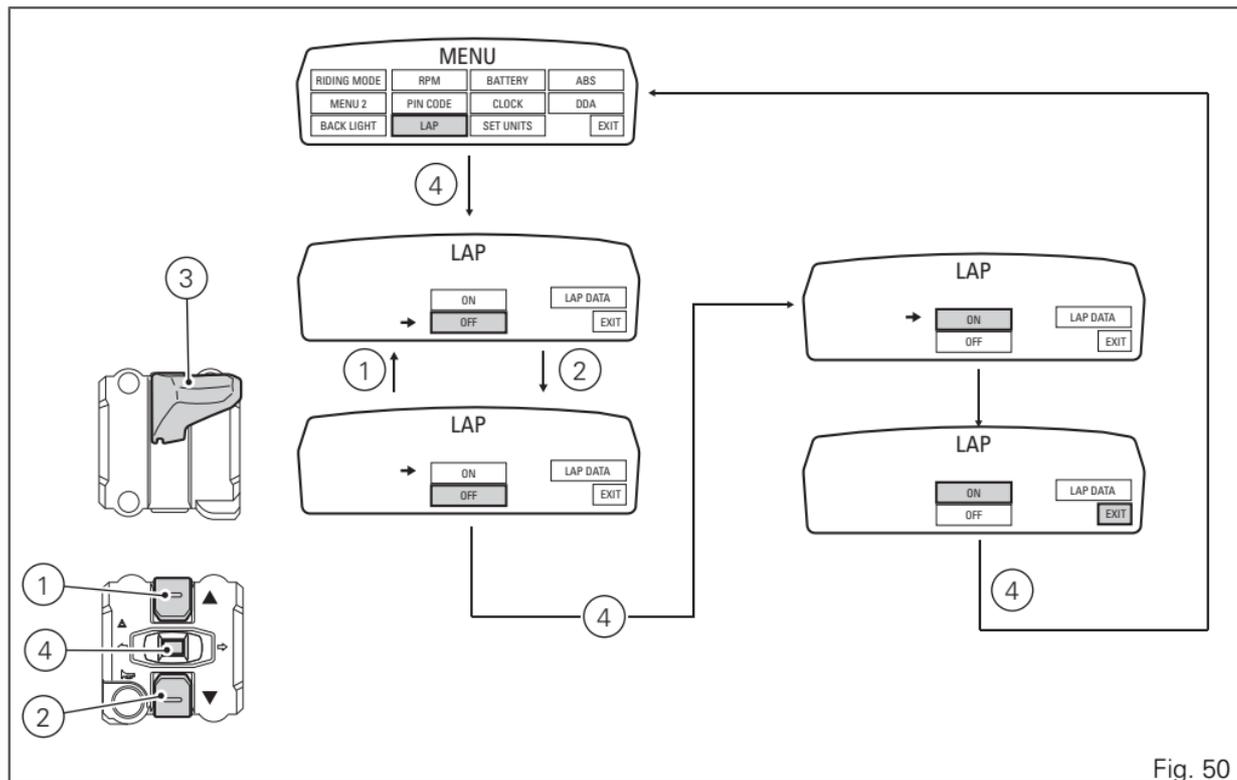


Fig. 50

LAP registration function

This function describes the "LAP" time registration.

If the function is activated (see "LAP activation/deactivation description" page 88), the lap time can be registered as follows:

- pressing the flash headlight button (3) the first time starts the "lap timer" for the first lap, and the instrument panel shows the message "LAP-START" flashing for 4 seconds, and then returns to the "previous" display;
- from this moment, each time that the flash (3) is pressed, the display automatically shows the lap number and lap time for 10 seconds and then returns to the "previous" display.

You can save a maximum of 30 laps in the memory. Once the memory is full, the instrument panel no longer stores lap times when the flash headlight button (3) is pressed, and the flashing message "LAP-FULL" is shown on the display for 4 seconds until the times are reset.

When the LAP function is set disabled, the current "lap" is not stored. If the LAP function is active and suddenly the motorcycle is suddenly turned off (Key-Off), the function will be automatically disabled (even

if the lap timer was active, the current "lap" is not stored). If the time is never "stopped", it will roll over upon reaching 9 minutes, 59 seconds and 99 hundredths; the lap timer starts counting from 0 (zero) and will keep running until the function is disabled. If however the LAP function is switched on and the memory has not been cleared, but fewer than 30 laps have been saved (e.g. 18 laps), the Instrument panel will store any remaining laps until the memory is full (in this case, it will store an additional 12 laps). This function only displays lap times being recorded; but other data are also saved (MAX speed and MAX rpm) for viewing at a later time in the "LAP DATA" function (stored LAPs viewing).

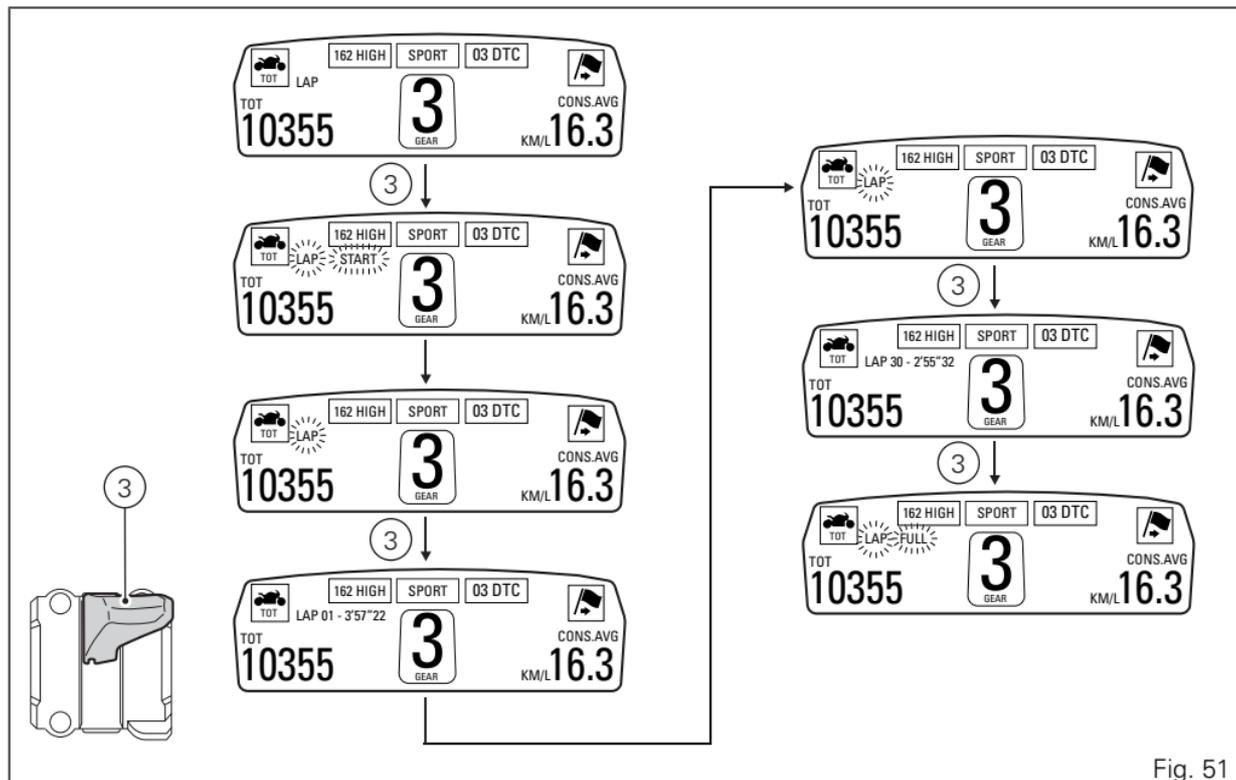


Fig. 51

Stored LAP display function

This function displays the stored LAPs. To access the function it is necessary to view the "setting" menu page page 67, use button (1) or (2) to select the "LAP" function and press reset button (4) to go to next page. Use button (1) or (2) to select "LAP DATA" indication and press the reset button again (4) to enter the page showing the previously recorded lap times.

The instrument panel displays the information as follows:

- at top left, the number of the displayed lap (ex.: LAP N.01);
- at bottom left, a rectangle inside which is the lap time (TIME), top speed in that lap (SPEED MAX) and top rpm in the same lap (RPM MAX);
- on the right, use button (1) or (2) to select "NEXT" (so that every time the reset button (4) is pressed, the next lap is displayed) or "PREV" (so that every time the reset button (4) is pressed, the previous lap is displayed);

To exit, select "EXIT" and press the reset button (4).



Note

The MAX stored speed is the displayed one (increased by 5%).

If no lap times are saved in memory, "NO LAP" indication is displayed and lap timer will indicate "--.--", MAX rpm will be = ----- and MAX speed = - - - - -.



Note

If the stored times are deleted while the LAP function is active, it will be automatically deactivated.

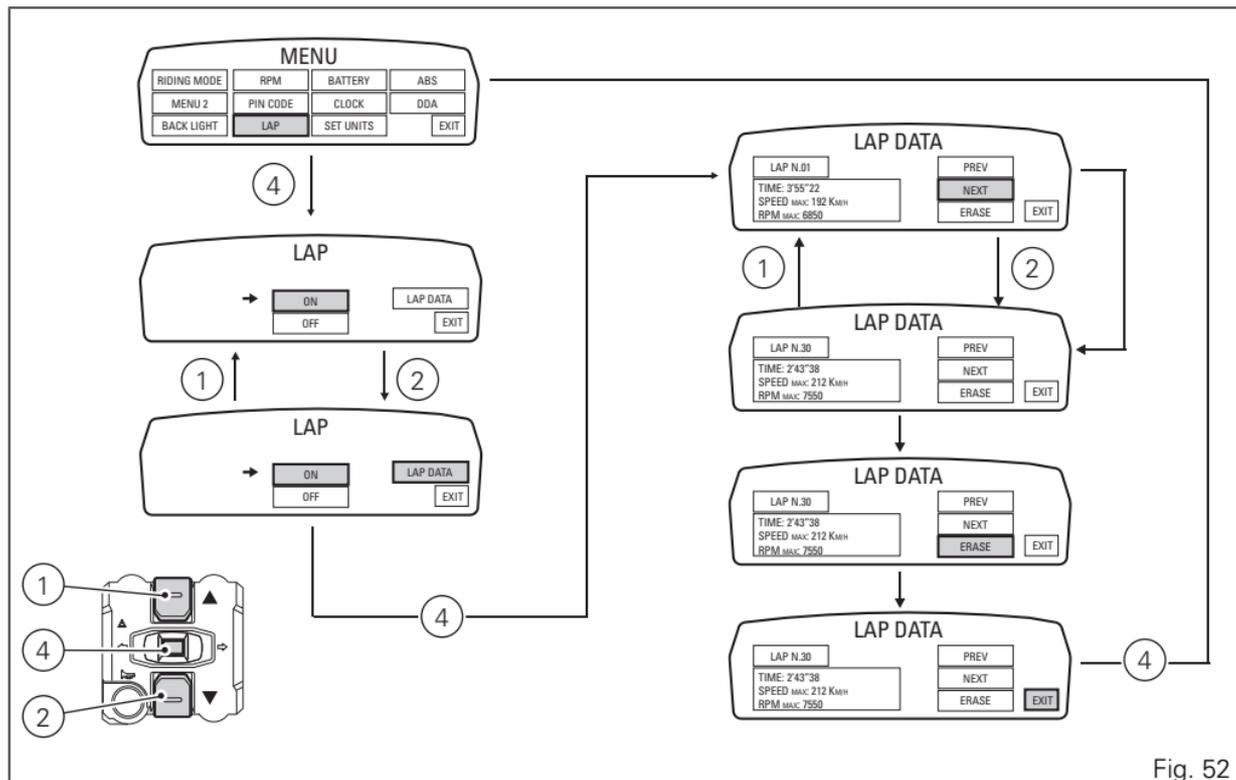


Fig. 52

Stored LAP erase function

This function erases the stored LAPs. To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "LAP" function and press reset button (4) to go to next page. Use button (1) or (2) to select "LAP DATA" indication and press the reset button again (4) to enter the page showing the previously recorded lap times. Highlight the "ERASE" item, use button (1) or (2) to scroll through the stored LAPs to erase and press the reset button (4) for 3 seconds.

Now, on the left-hand side of the display you have "PLEASE WAIT..." and then, to confirm deletion, "ERASE OK" appears for 2 seconds. You will notice that no stored data will be present any more and "NO LAP" message will be displayed.

To exit, select "EXIT" and press the reset button (4).

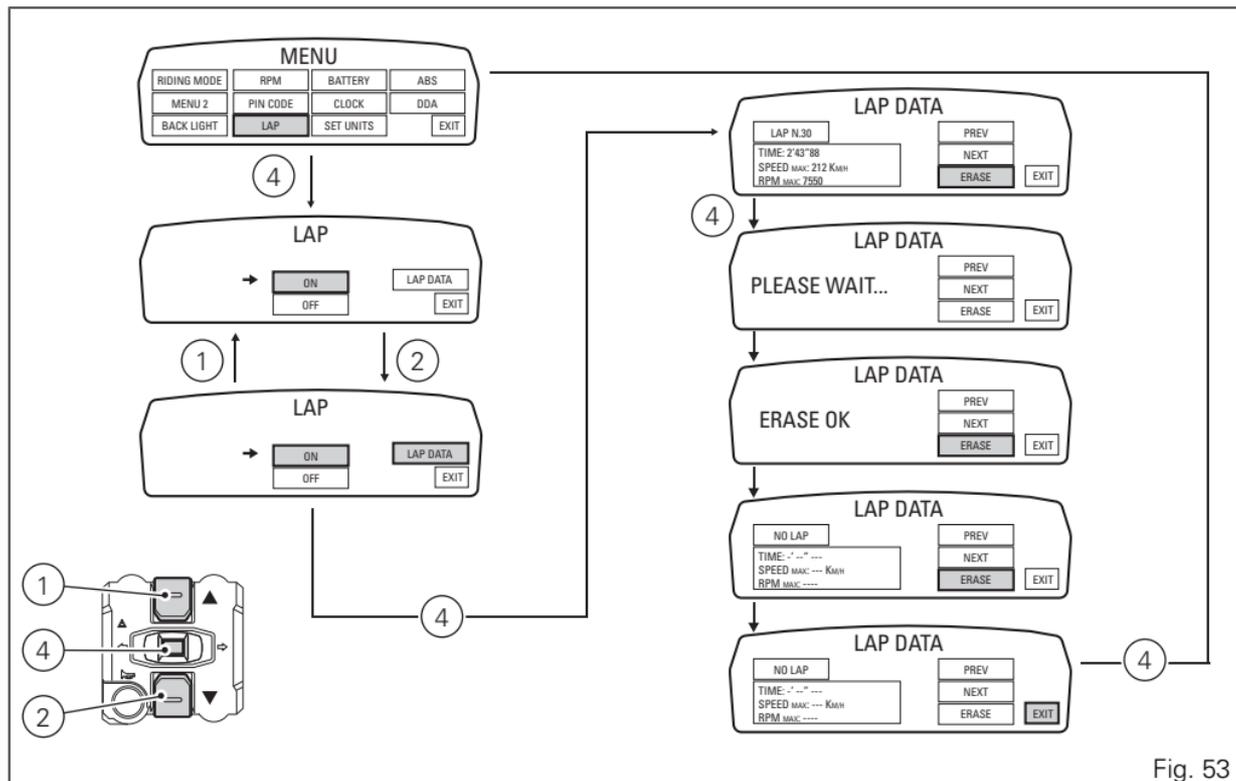


Fig. 53

Battery voltage indicator (BATTERY)

This function describes the battery voltage indicator.

To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "BATTERY" function and press the reset button (4) to confirm.

The information will be displayed as follows:

- if battery voltage is between 11.8 and 14.9 Volt the reading will be displayed steady;
- if battery voltage is between 11.0 and 11.7 Volt the reading will be displayed flashing;
- if battery voltage is between 15.0 and 16.0 Volt the reading will be displayed flashing;

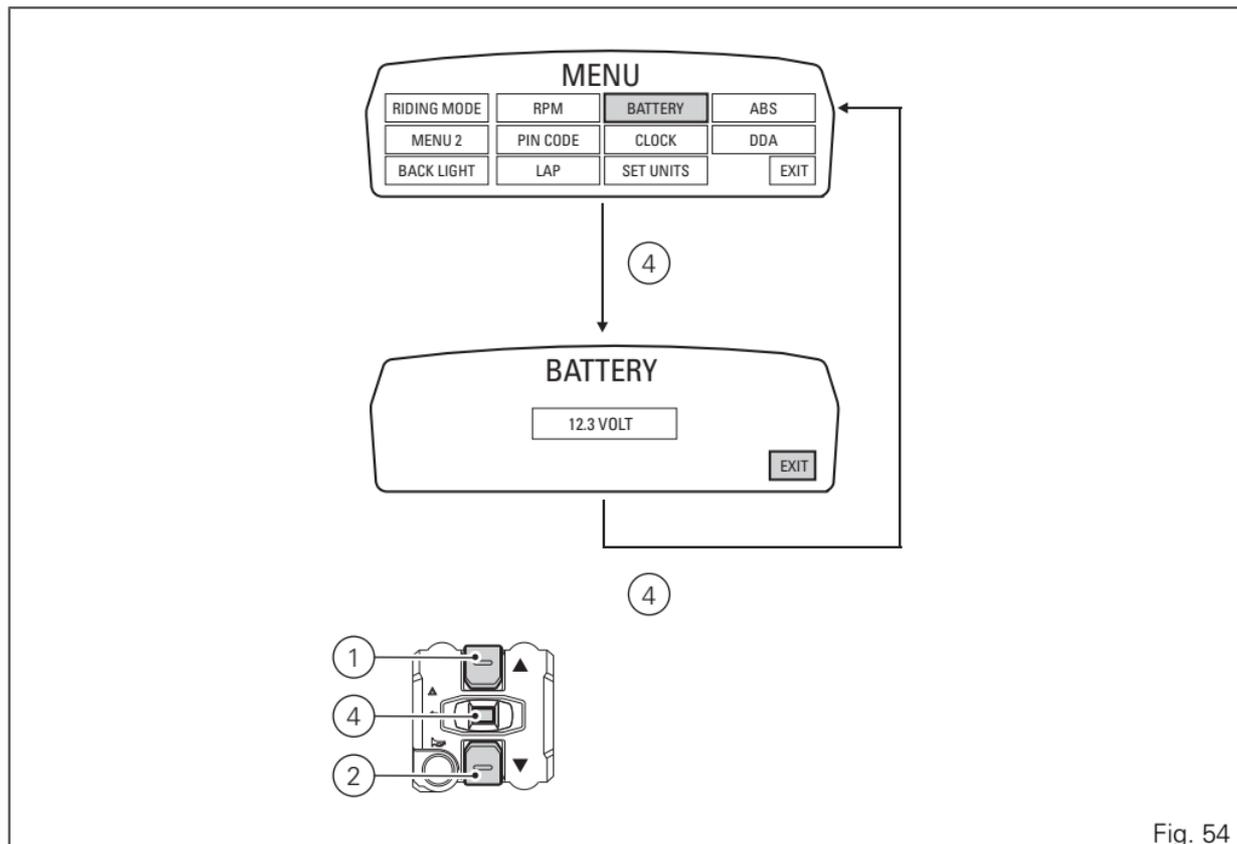


Fig. 54

- if battery voltage is equal to or less than 10.9 Volt, "LOW" is shown flashing and the "Vehicle/Engine Diagnosis - EOBD" light comes on;
- if battery voltage is equal to or greater than 16.1 Volt, "HIGH" is shown flashing and the " Vehicle/Engine Diagnosis - EOBD" light comes on.



Note

Dashes "--" appear if the reading is not available.

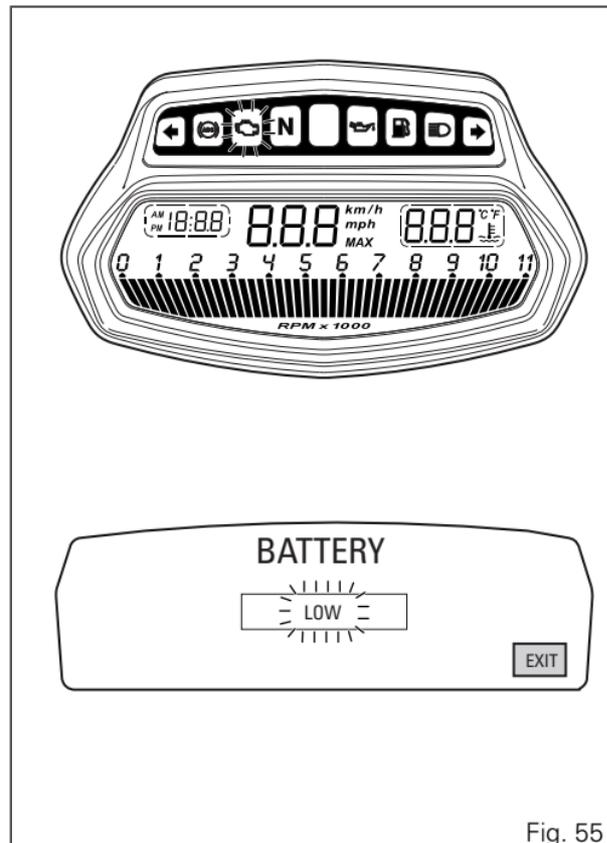


Fig. 55

Clock setting function

This function sets the clock. To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "CLOCK" function and press the reset button (4) to confirm.

In the following screen the message "SETTING" is highlighted in green (A); now, press the reset button (4) for 3 seconds to edit the time displayed on the instrument panel on handlebar, and the "SETTING" indication highlighting becomes grey (B).

Clock setting

On entering this mode, the message "AM" will flash; if you press button (2) the message "PM" flashes; press button (2) again to go back to the previous step (if it is 00:00, when switching from AM to PM, 12:00 will be displayed); press button (1) to access hour setting mode, the hours start flashing; each time you press button (2), the digit will increase by one hour. If button (2) is kept pressed, the number increases cyclically in steps of one hour every second (when the button is held depressed, the hours do not flash). Pressing button (1) gives access to the minute setting mode; minutes start to flash. Each time you press the button (2), the digit will increase by 1 minute. If you

hold the button (2) down, the count increases cyclically in steps of 1 minute every second.

If the button (2) is held depressed for over 5 seconds, minutes will increase by 1 minute every 100 m (while the button (2) is held depressed, the seconds will not flash).

If you press button (1) setting is completed and the instrument panel on tank display "SETTING" item is again highlighted in green (C).

To exit, select "EXIT" and press the reset button (4).



Note

If a battery is cutoff, when the voltage is restored and at the next Key-On, the clock must be reset (it starts automatically from 00:00).

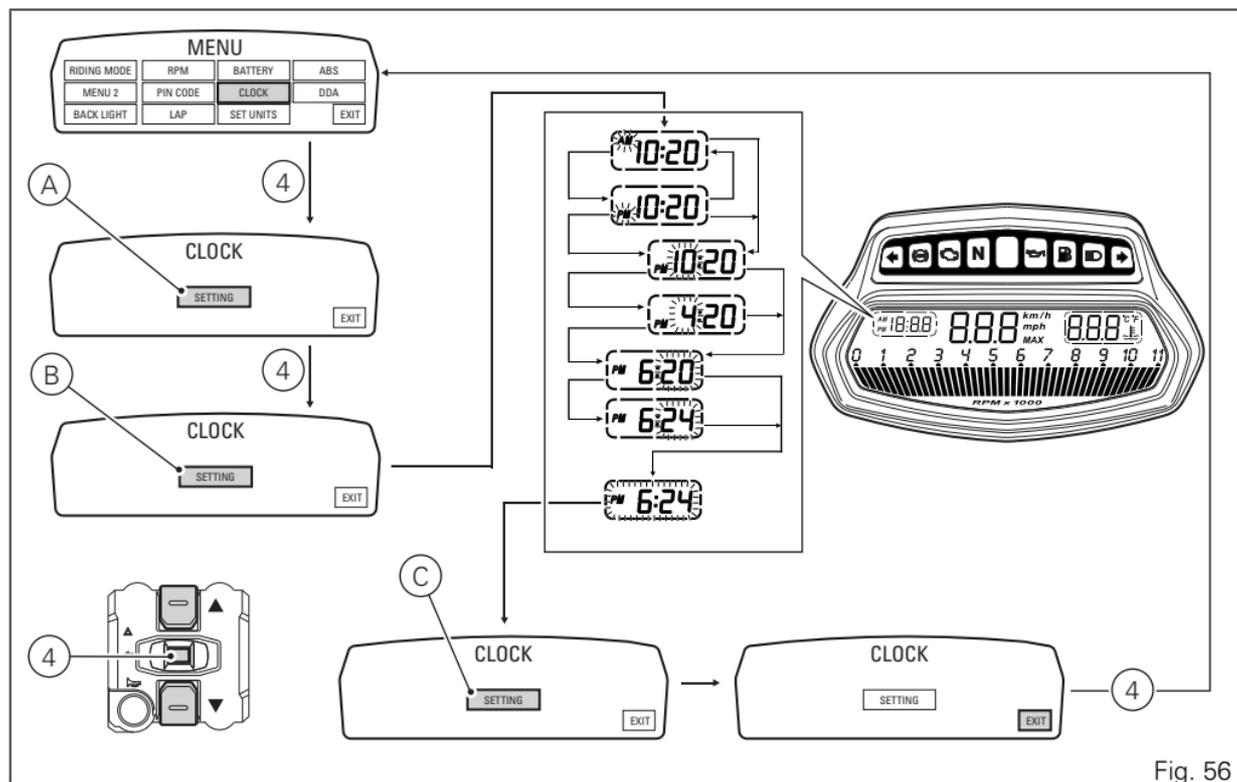


Fig. 56

Units of measurement modification function

This function allows you to change the units of measurement of the displayed values.

To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "SET UNITS" function and press reset button (4) to go to next page.

Use button (1) or (2) to select the value relative to the unit of measurement to be changed and press the reset button again (4).

The instrument panel displays the values that can be modified; use button (1) or (2) to select the value to modify and press the reset button (4) again.

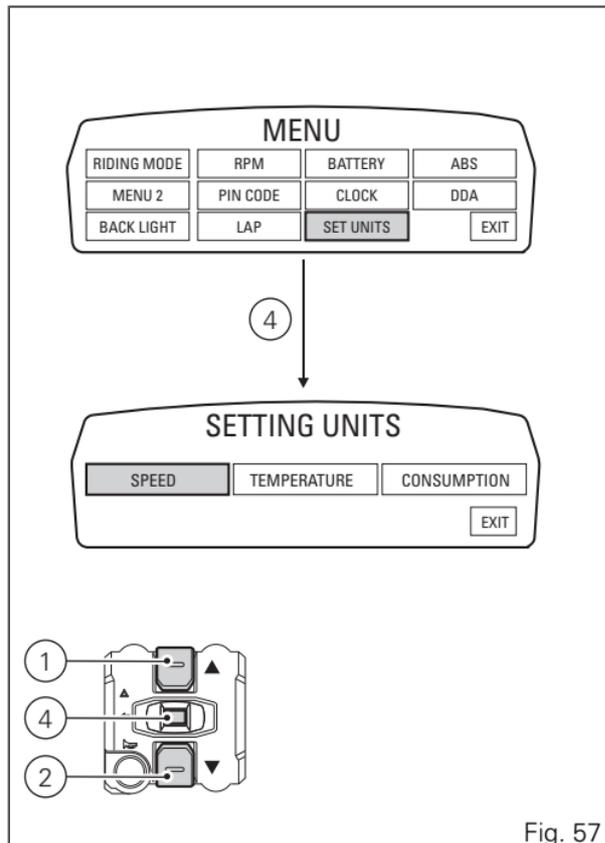


Fig. 57

"SPEED" setting

This function allows to change the units of measurement of speed (and hence even the ones of distance travelled).

Currently set unit of measurement is highlighted in green on the display; use button (1) or (2) to shift the arrow on the left onto the new setting and confirm by pressing the reset button (4).

Save the setting and, when coming back to main screen, any new unit of measurement set will be present.

1) Km/h: by setting this condition the following values will have the same units of measurement:

- TOT, TRIP1, TRIP2, TRIP FUEL: Km
- Vehicle speed and AVERAGE speed (SPEED AVG): Km/h

2) mph: by setting this condition the following values will have the same units of measurement:

- TOT, TRIP1, TRIP2, TRIP FUEL: miles
- Vehicle speed and AVERAGE speed (SPEED AVG): mph.

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

"TEMP." setting

This function allows you to change the units of measurement of the temperature.

Currently set unit of measurement is highlighted in green on the display; use button (1) or (2) to shift the arrow on the left onto the new setting and confirm by pressing the reset button (4).

Save the setting and, when coming back to main screen, any new unit of measurement set will be present.

3) °C: by setting this condition the following values will have the same units of measurement:

- Engine coolant temperature and T_AIR: °C

4) °F: by setting this condition the following values will have the same units of measurement:

- Engine coolant temperature and T_AIR: °F

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

"CONS." setting

This function allows to change the units of measurement of the Average and Instantaneous fuel consumption.

Currently set unit of measurement is highlighted in green on the display; use button (1) or (2) to shift the arrow on the left onto the new setting and confirm by pressing the reset button (4).

Save the setting and, when coming back to main screen, any new unit of measurement set will be present.

5) Km/L: by setting this condition the following values will have the same units of measurement:

- CONS. and CONS. AVG: km/L

6) L/100: by setting this condition the following values will have the same units of measurement:

- CONS. and CONS. AVG: L/100

7) mpgal UK : by setting this condition the following values will have the same units of measurement:

- CONS. and CONS. AVG: mpgal UK

8) mpgal USA : by setting this condition the following values will have the same units of measurement:

- CONS. and CONS. AVG: mpgal USA

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

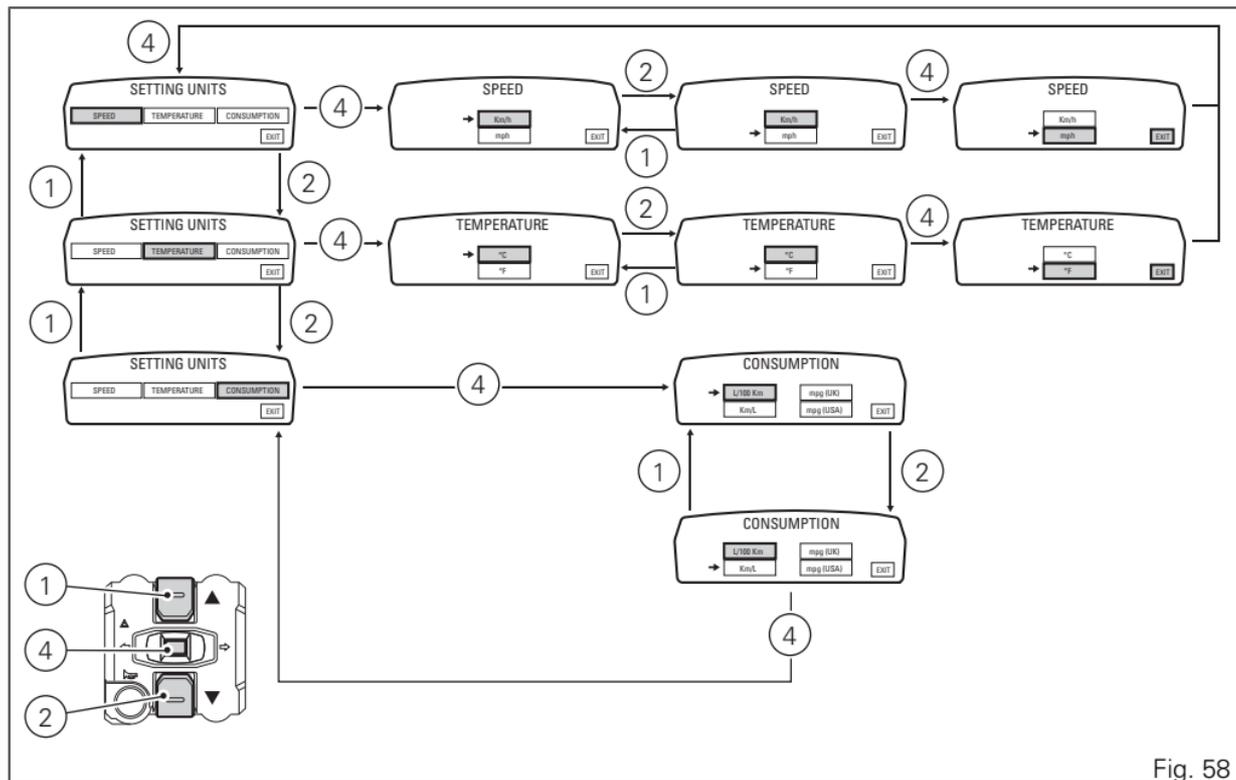


Fig. 58

ABS disabling function

This function disables or enables the ABS.

To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "ABS" function and press reset button (4) to go to next page.

The function setting is highlighted on the display (ON in green or OFF in yellow); use button (1) or (2) to shift the arrow on the left onto the new setting and confirm by keeping the reset button (4) pressed for 3 seconds.

After these 3 seconds the system checks whether the request was actually complied with; during the check the display will show the message "PLEASE WAIT...".

The new condition will be displayed after check time.



Note

If the disabling request was not met, it is recommended to repeat the procedure. If the problem persists, contact your Ducati dealer or Authorised Service Centre.

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

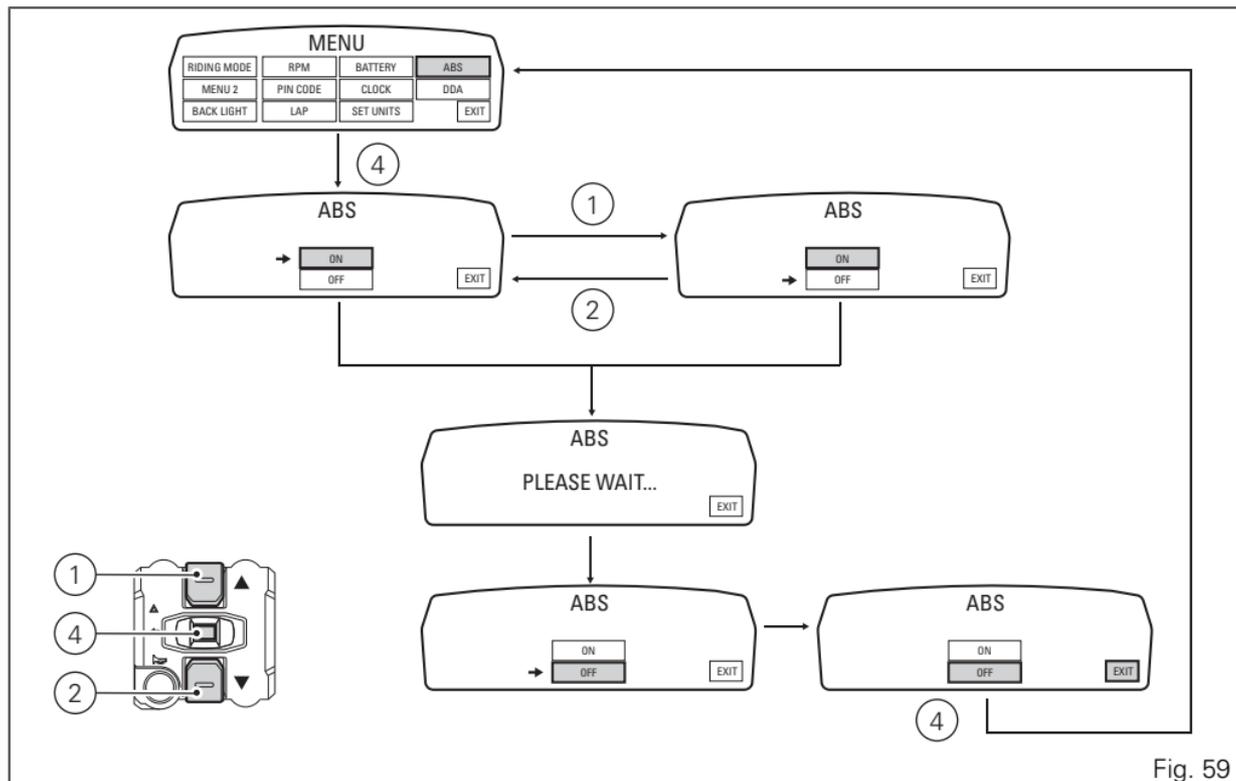


Fig. 59

The Immobilizer system

For improved anti-theft protection, the motorcycle is equipped with an IMMOBILIZER, an electronic system that inhibits engine operation whenever the ignition switch is turned off.

The grip of each ignition key contains an electronic device that modulates the output signal from a special antenna located under the seat when the ignition is switched On.

The modulated signal acts as a password (which is different at each start-up) and tells the ECU that an "authorised" ignition key is being used to start up the engine. When the ECU recognises the signal, it enables engine start-up.

Keys

The Owner receives a set of keys comprising:

- no. 1 active key (1).
- no. 1 passive key (2).

They contain the code used by the "Hands free" system for the Key-On, in different modes.

The active key (1) is the one that is normally used: press button (A) to fully open the metal part, i.e. position (B).

Hold depressed button (A) you can move the metal part and set it to the middle position (C); once in place, release button to lock.

The metal part returns inside the grip by pushing it in.

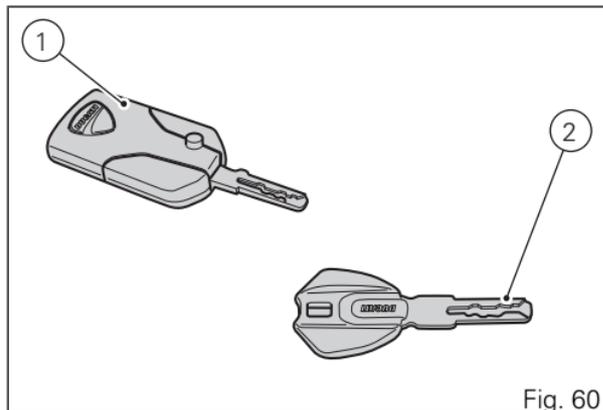


Fig. 60

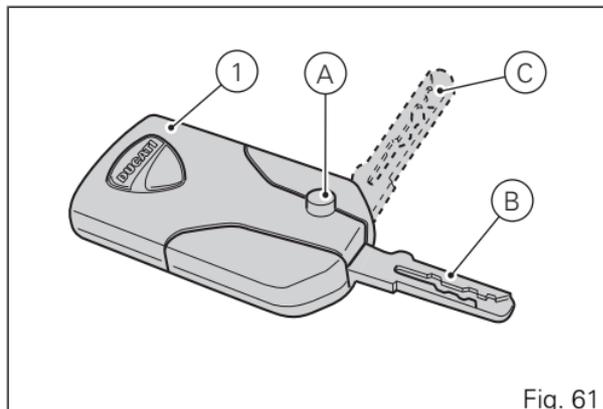


Fig. 61

The key contains a battery that must be replaced when the low key battery "warning" is displayed as soon as the instrument panel is turned on.



Note

In this case, replace the battery as soon as possible.

When the charge level goes below a certain limit, the key can only work in passive mode, like the passive key: in this case, the instrument panel will not display any message.



Fig. 62



Warning

Do not ride with the key (active or passive) inserted in the lock of the tank cap or in the seat lock as it could come out and represent a potential danger. Furthermore, if bumped, the key mechanism and the integrated circuit could be damaged.

Also riding in poor weather conditions with the key inserted could cause damage to its integrated circuit. Do not leave the key on the motorcycle when washing it as it could be damaged, not being watertight.

Replacing the battery in the active key

Only use 3 Volt CR 2032 lithium ion batteries.



Note

The keys do not need to be reprogrammed after replacing the battery.

Remove the metal part of the battery.

Use a large sized coin to pry open the shells of the plastic grip (2 euro coin) as shown in the figure.



Important

Insert the coin only in the indicated point. Do not other use other objects inserted in points that are different than what is shown, as it could damage the integrated circuit and/or the protective gasket.

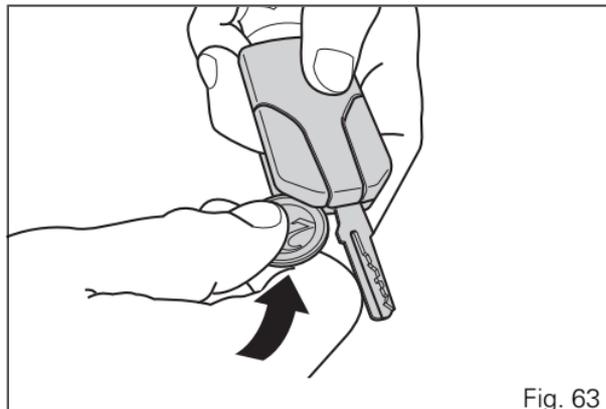


Fig. 63

Once the plastic shells have been separated, remove the printed circuit board (1) prying it up GENTLY with a small flat screwdriver, as shown in the figure.

⚠ Important
Insert the point of the flat screwdriver just under the printed circuit board, being very careful not to damage it. Do not apply force on the battery or battery holder.

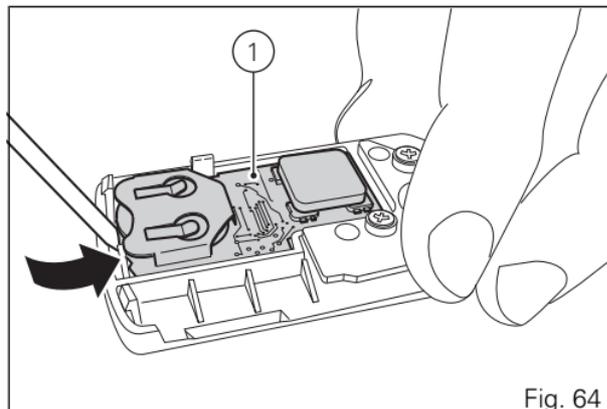


Fig. 64

Remove the battery (2) from the printed circuit board (1) and replace it with a new one.
Pay attention to polarity: the positive pole (+) must face upward.



Important

Only use the required type of battery.

Reinsert the printed circuit board (1) from the side with the battery (2) into the plastic shell.

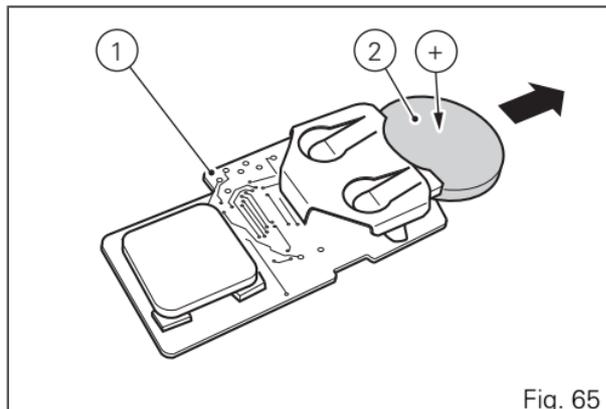


Fig. 65

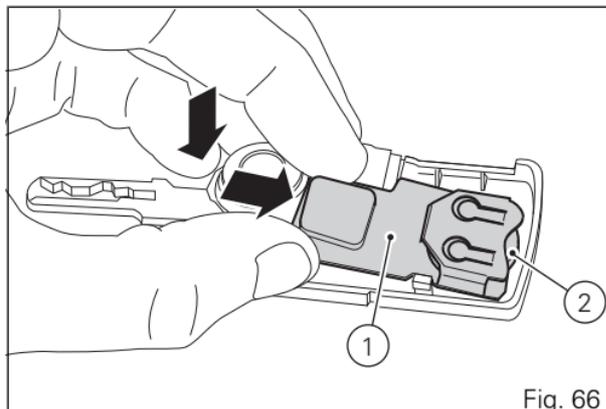


Fig. 66

Apply slight pressure on the antenna (3) of the printed circuit board until you hear a click.

Align the two shells of the grip and press on the area indicated by the arrows to reclose them.

Make sure that you hear a "click" upon closing and that the key is well closed.

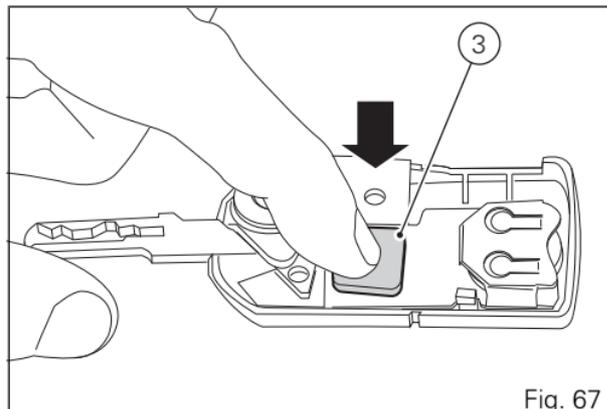


Fig. 67

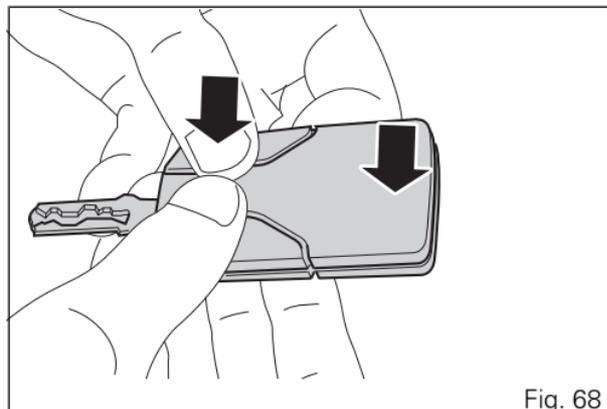


Fig. 68

Duplicate keys

If you need any duplicate keys, contact the Ducati Service network with all the keys you have left.

The Ducati Service Centre will program all the new keys as well as any keys you already have.

You may be asked to provide proof that you are the legitimate owner of the motorcycle.

The codes of any keys not submitted will be wiped off from the memory to make those keys unserviceable in case they have been lost.

Immobilizer override procedure

This procedure makes it possible to "temporarily" turn on the motorcycle if the HF (Hands Free) System is not working.



Note

The PIN CODE function must be activated by entering your 4 digit PIN in the instrument panel, otherwise the vehicle cannot be turned on temporarily in the case of a malfunction.



Warning

The motorcycle owner must activate (store) the PIN code; if there is already a stored PIN, contact an Authorised Ducati Dealer to have the function "reset". To perform this procedure, the Authorised Ducati Dealer may ask you to demonstrate that you are the owner of the motorcycle.

PIN CODE activation function

To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "PIN CODE" function and press reset button (4) to go to next page.



Note

If "MODIFY PIN CODE" appears when accessing this function, this means that there is already a stored PIN and therefore the function is already active.

When accessing the function, if "INSERT NEW PIN CODE" and four dashes "----" appear in green on the round display, it means that no PIN CODE is present; now enter a 4 digit code.

Entering the code:

Press the reset button (4).

each time you press the button (2) the displayed number increases from "0" to "9" and then returns to "0"; to confirm the number, press the reset button (4). Repeat the procedure until inserting the fourth digit. To highlight the "MEMORY" indication, press the reset button (4) again.

To store the entered PIN, press the reset button (4) for 3 seconds with "MEMORY" indication highlighted in green. As a confirmation of PIN storage, the display will show the message "MEMORIZED" for about 2 seconds and then automatically highlight "EXIT" option.

From this moment, "MODIFY PIN CODE" will be displayed when accessing the "PIN CODE" function and the PIN can be changed again as many times as necessary (without limits).

To exit the setting function, press the reset button (4) when "EXIT" is highlighted.

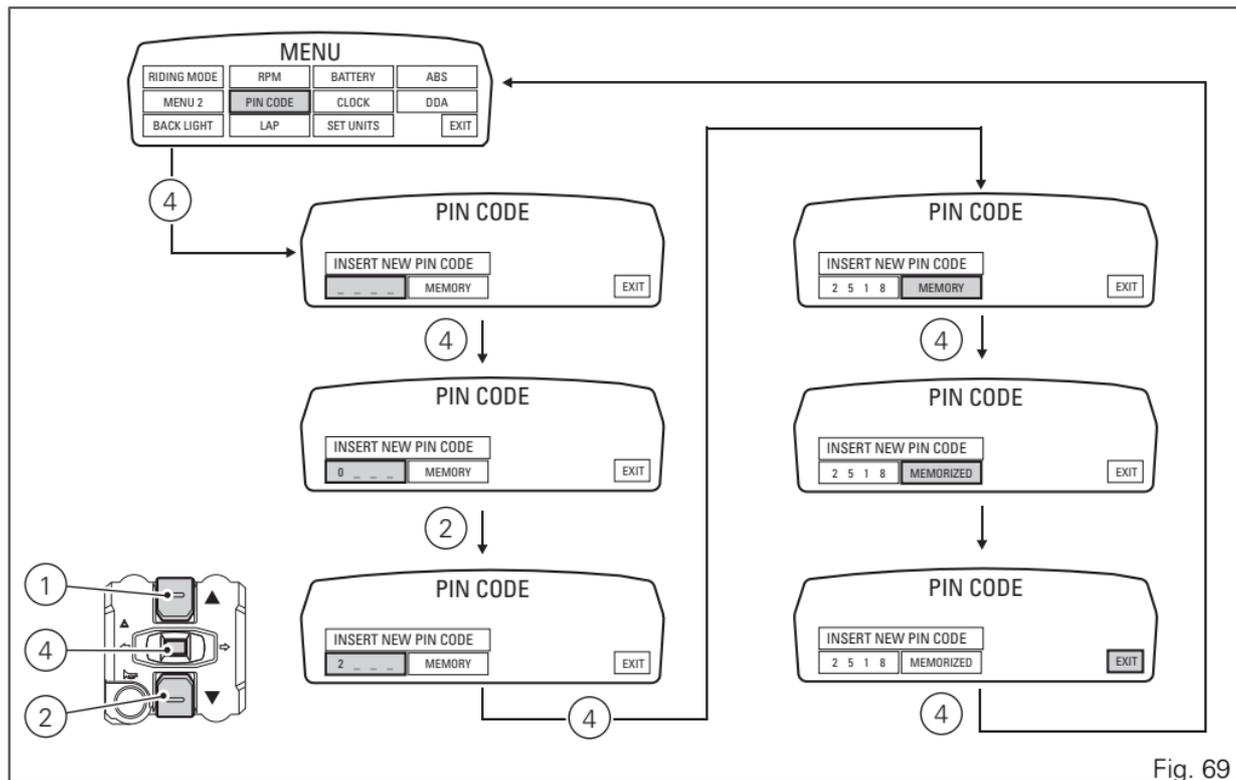


Fig. 69

PIN CODE change function

This function changes your four number PIN CODE. To access the function it is necessary to view the "setting" menu page 67, use button (1) or (2) to select the "PIN CODE" function and press reset button (4) to go to next page.



Note

If "INSERT NEW PIN" and the dashes "----" appear when accessing this function, this means that the function was not active as the PIN CODE was never entered. Enter your PIN code with the "PIN CODE activation" function.

When accessing the function, if "MODIFY PIN CODE", "OLD PIN" and four dashes "----" appear in green on the round display, it means that a PIN CODE is already stored; now enter the 4 digit code.



Note

To change the PIN, you must know the currently stored PIN.

Now you shall enter the "old" PIN code (OLD PIN).

Press button (4); each time you press the button (2) the displayed number increases from "0" to "9" and then returns to "0"; to confirm the number, press the reset button (4).

Repeat the procedure until entering the fourth digit. Press the reset button (4) again to confirm. If the entered code is incorrect, the instrument panel will return to the four dashes "----" in order to enter the code again. If the entered code is correct, "CORRECT" is automatically highlighted in green for about 2 seconds and then the four dashes "----" next to "NEW PIN" indication are automatically highlighted; now enter the "new" 4 digit code.

Press button (4); each time you press the button (2) the displayed number increases from "0" to "9" and then returns to "0"; to confirm the number, press the reset button (4).

Repeat the procedure until entering the fourth digit. Press the reset button (4) again to confirm. Item "MEMORY" is automatically highlighted.

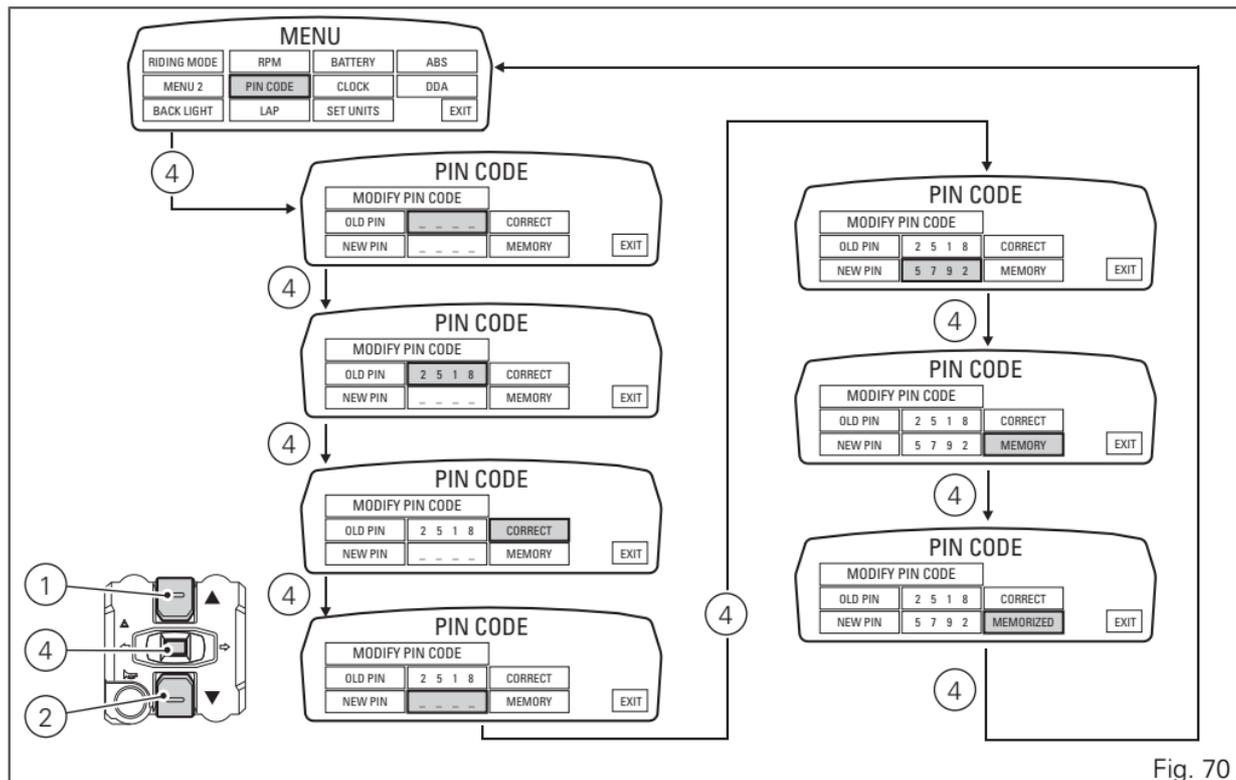


Fig. 70

To store the entered new PIN, press the reset button (4) for 3 seconds with "MEMORY" indication highlighted in green.

As a confirmation of the new PIN storage, the display will show message "MEMORIZED" for about 2 seconds and then "EXIT" is automatically highlighted. To exit the setting function, press the reset button (4) when "EXIT" is highlighted.



Note

There is no limit to the amount of times you can change your PIN CODE.

Light control

Headlight control

This function allows you to reduce current consumption from the battery, by automatically managing headlight switching-off.

At Key-On, the high beam and low beam lights are off. When the engine is started, the low beam lights turn on automatically; from this moment, "normal" operation is activated: it will be possible to switch from low beam to high beam (using button 3) or operate the "FLASH" signal (using button 3).

If engine is not started upon key-on, it is anyway possible to switch the lights on by pushing the button on the LH high/low beam switch (button 3); press it once to turn on the low beam; from this moment, the same button can be used to switch on (and off) the high beam light (if the engine is not started within 60 seconds, the low beam or high beam light that was turned on will turn off).

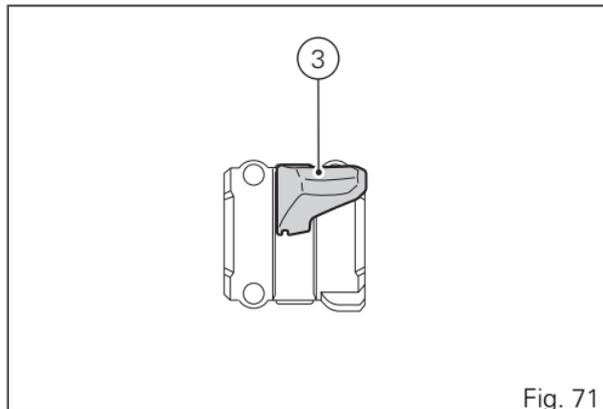


Fig. 71

If the headlight was turned on before starting the engine with the procedure described above, the headlight turns off automatically when starting the vehicle and will turn on again when the engine has been completely started.

Turn indicators (automatic reset)

The instrument panel controls the automatic reset of the turn indicators.

After activating one of the two turn indicators, they can be deactivated using the reset button (4). If the turn indicator is not "reset" manually, the instrument panel will automatically switch it off after the motorcycle has travelled 500 m (0.3 miles) from when the turn indicator was activated. The counter for the distance travelled for automatic deactivation is activated at speeds below 80 Km/h (50 mph). If the calculation of the distance for automatic deactivation is activated and then the motorcycle exceeds a speed of 80 km/h (50 mph), the calculation is interrupted and will restart when the speed returns below the indicated threshold.

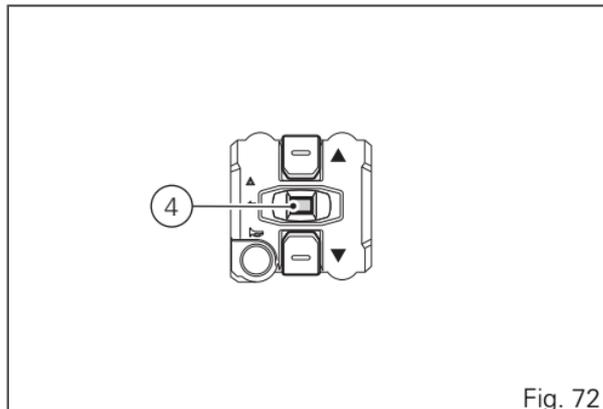


Fig. 72

"Parking" function

This function activates the "PARKING" mode. The "PARKING" function activates the front and rear parking lights when the vehicle is turned off so it is visible when parked. The function is activated by pressing the button (2) for 3 seconds during the first 60 seconds after the motorcycle was turned off. Once the function is activated, the indication will remain on the circular display for 5 seconds and the lights will remain on for 2 hours. After 2 hours, then will turn off automatically. To interrupt the function, turn the vehicle on and off (Key-On / Key-Off).



Note

If there is a sudden interruption in the battery while the function is active, the instrument panel will disable the function when the voltage is restored.



Fig. 73

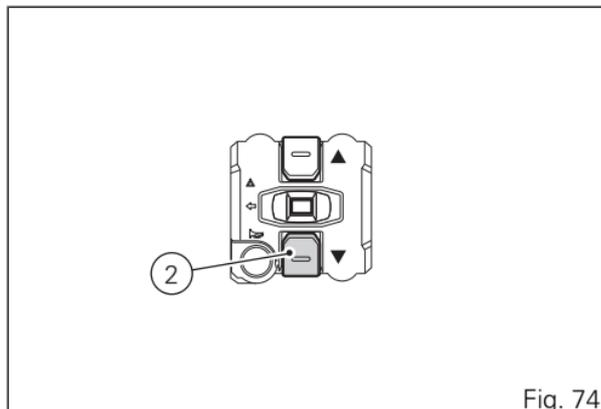


Fig. 74



Important

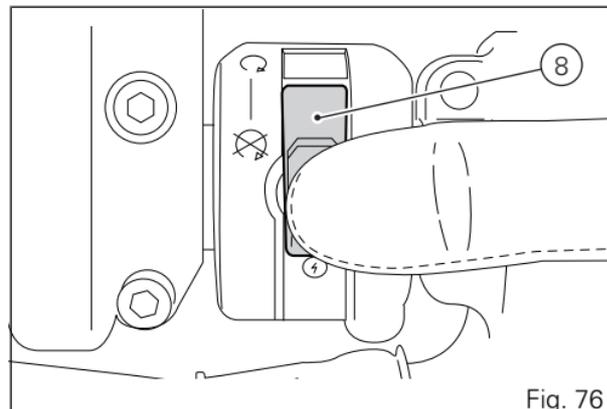
The frequent use of this function can considerably reduce the battery charge; it is recommended to use this function only when really necessary.

Ducati recommends using this function only when necessary.

Warning reading “Press the ignition switch to lock the steering”

This function indicates that it is necessary to keep button the ignition switch pressed to engage the steering lock.

This indication becomes active if button (8) is pressed for 1 second.



“Steering lock” on indication

This function informs that the steering lock was turned on.

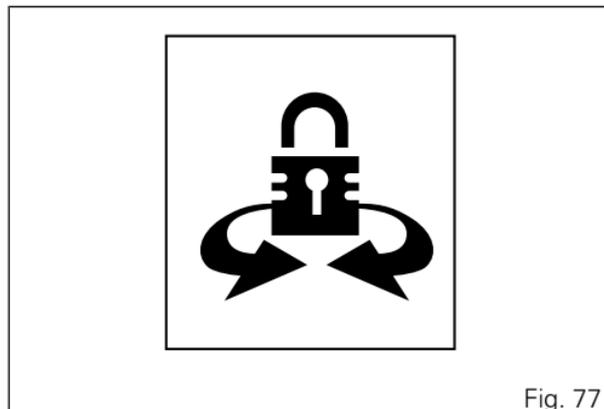
The steering lock can be turned on during the first 60 seconds after turning off the vehicle by pressing down on the “RUN” button.

If the steering lock was enabled correctly, the instrument panel will show the indication in the display for 5 seconds.



Note

The steering lock can only be turned on when the steering is in position.



Indication of incorrect position of the red starter button

This message indicates to the user that the button should be returned to the "top" position in order to ensure that there is not an excessive current absorption by the system.



Important

This could lead to battery discharge in a short time.

Any incorrect position is detected within the first 60 seconds after vehicle switch-off (Key-Off).

If you press the starter button (8) for over 1 second to switch off (Key-Off), the system activates the warning "RED SWITCH NOT RELEASED" as a flashing message.

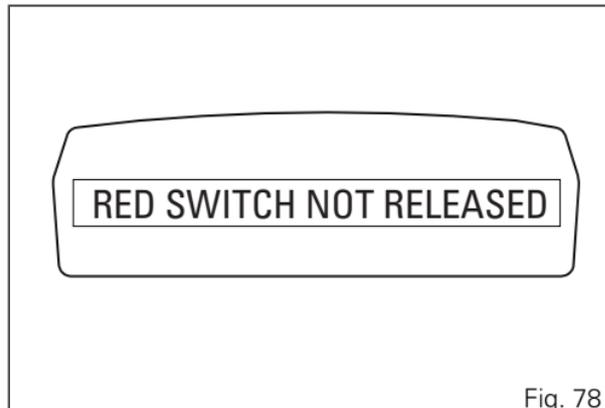


Fig. 78

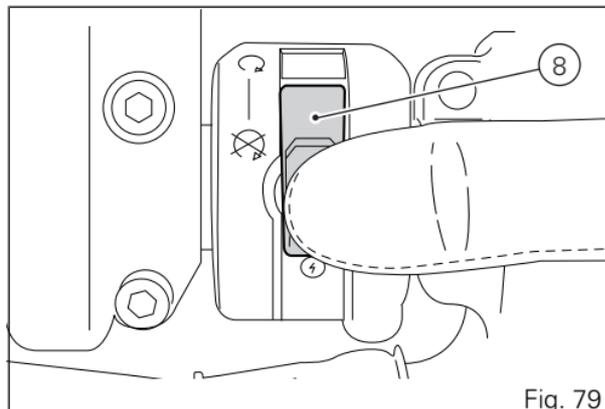


Fig. 79

If the warning remains active once button (8) is no longer depressed, you shall take button (8) to "top" position.
In this case, report the fault to Dealer or Authorised Service Centre.

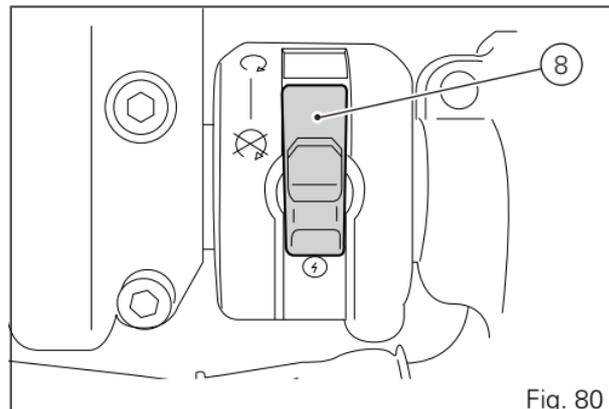


Fig. 80

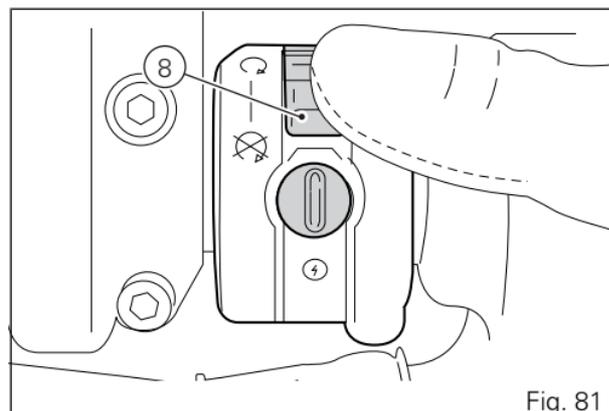


Fig. 81

Other functions

This function allows to enable and adjust the heated handgrips.

To activate the "H.GRIPS" control menu, press Start button (5) on the RH switch.



Note

The heated handgrips can be controlled through Start button (12) only when the engine is on.

The display mode can be of two types:

- one with Menu 2 enabled (Fig. 82);
- one with Menu 2 disabled (Fig. 83);

Once the menu has been selected, press the button until selecting the desired indication "OFF", "LOW", "MEDIUM" or "HIGH").

If the "OFF" indication becomes bigger, it means that the heated handgrips are disabled.

If the "LOW" indication becomes bigger, it means that the heated handgrips are enabled and set to the minimum heat level.

If the "MEDIUM" indication becomes bigger, it means that the heated handgrips are enabled and set to the medium heat level.

If the "HIGH" indication becomes bigger, it means that the heated handgrips are enabled and set to the maximum heat level.

After selecting the desired setting, it is no longer necessary to press the button (5); after 3 seconds without performing any action, the instrument panel automatically quits the indication and keeps the last saved condition.

After quitting the adjustment menu, if the handgrips have been enabled, the instrument panel displays the relevant yellow icon (on top right if menu 2 is enabled or on top left if menu 2 is disabled), and the type of adjustment ("LOW", "MEDIUM" or "HIGH").

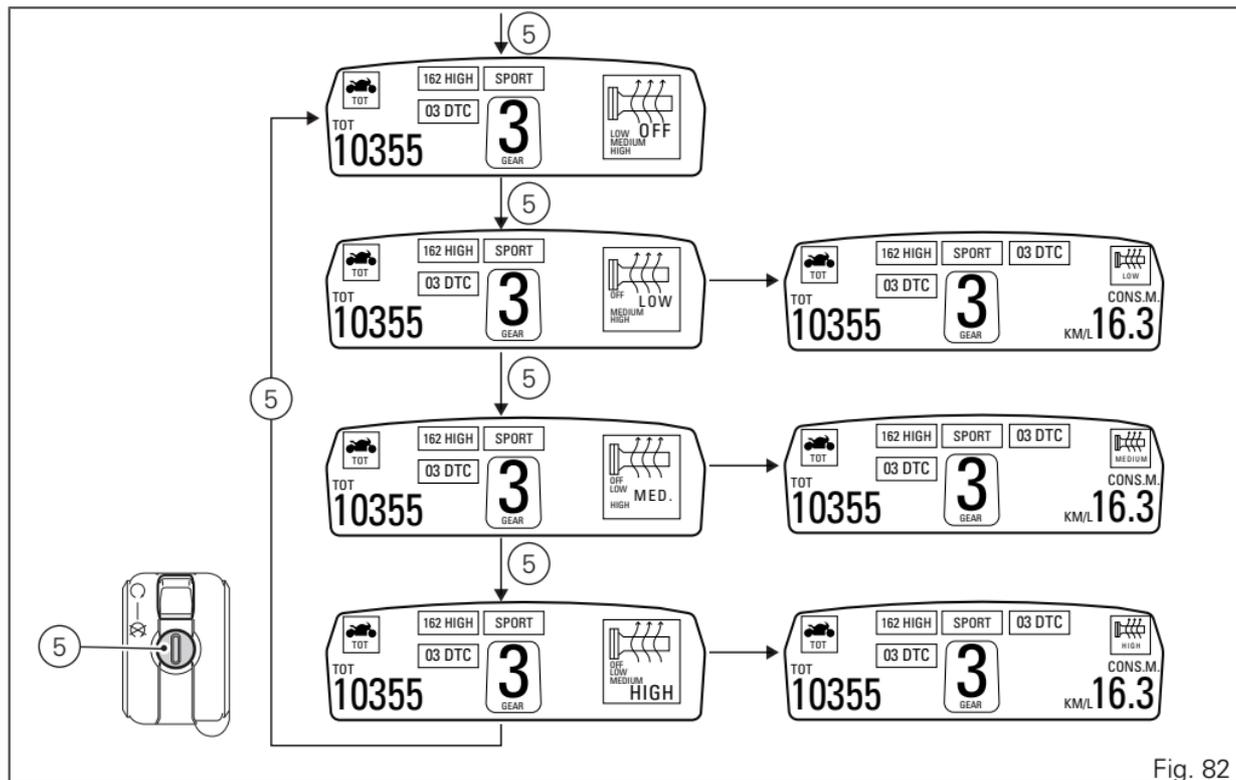


Fig. 82

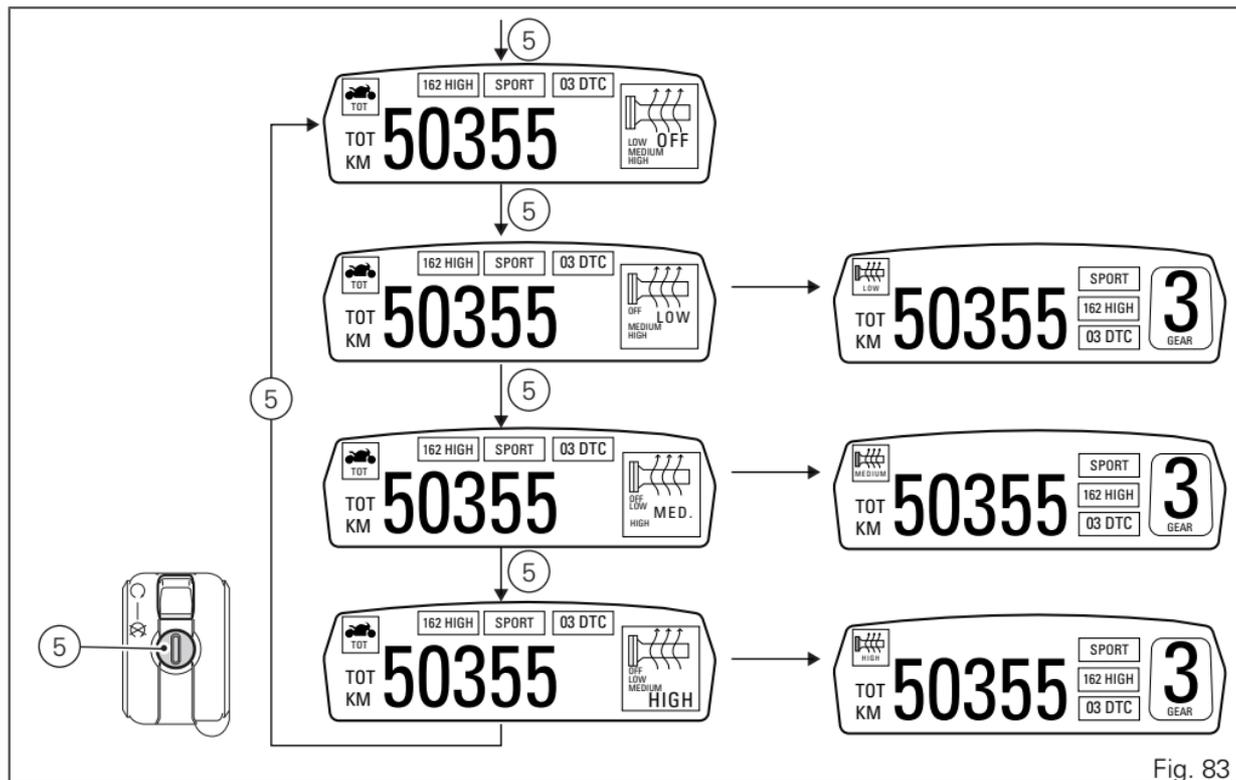


Fig. 83



Note

The heated handgrips are actually enabled (i.e. they start to heat up) only with running engine.



Note

If the heated handgrips have been enabled and the engine turned off, the handgrips are "temporarily" disabled but the indication continues to remain active; they will be enabled automatically upon engine start.



Warning

Ducati recommends NOT to use the heated handgrips at environment temperature above 15° ÷ 20°C since they could get damaged.



Note

The heated handgrips absorb a high level of current and this, at engine low rpm, can discharge the battery; if the battery is not sufficiently charged (voltage below 11.9 Volt) the handgrip heating is disabled to protect the motorcycle start capacity; the heated handgrips are automatically enabled again as soon as the battery voltage exceeds the value indicated above.

Controls

Position of motorcycle controls

Warning This section shows the position and function of the controls used to ride the motorcycle. Be sure to read this information carefully before you use the controls.

- 1) Instrument panel on handlebar.
- 2) "Hands free" system.
- 3) Tank indication on instrument panel.
- 4) LH switch.
- 5) Clutch lever.
- 6) Rear brake pedal.
- 7) RH switch.
- 8) Throttle twistgrip.
- 9) Front brake lever.
- 10) Gear change pedal.

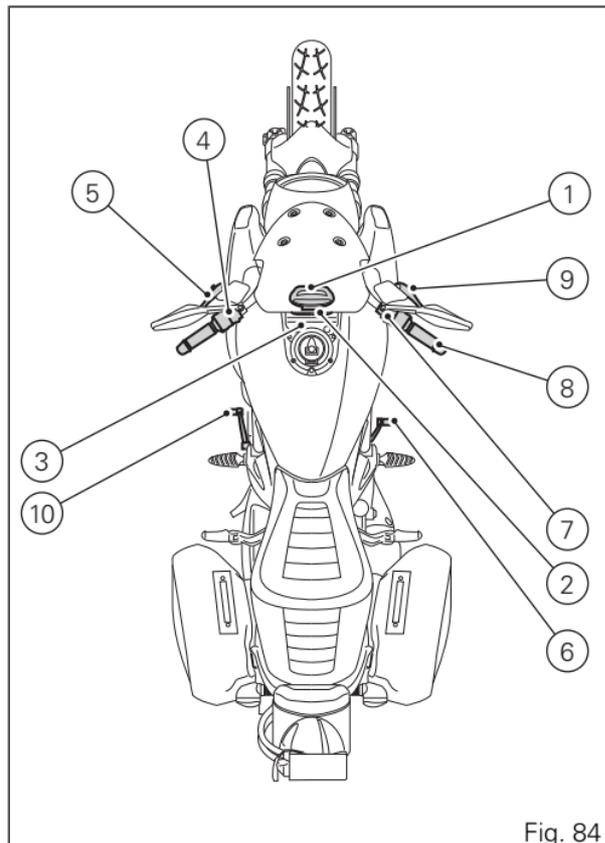


Fig. 84

“Hands free” system

The Hands free system consists of:

- 1) Hands free lock;
- 2) Antenna;
- 3) Active key;
- 4) Passive key;
- 5) Tank filler plug.

The "Hands free" button (7, Fig. 87) is located on the tank front end.

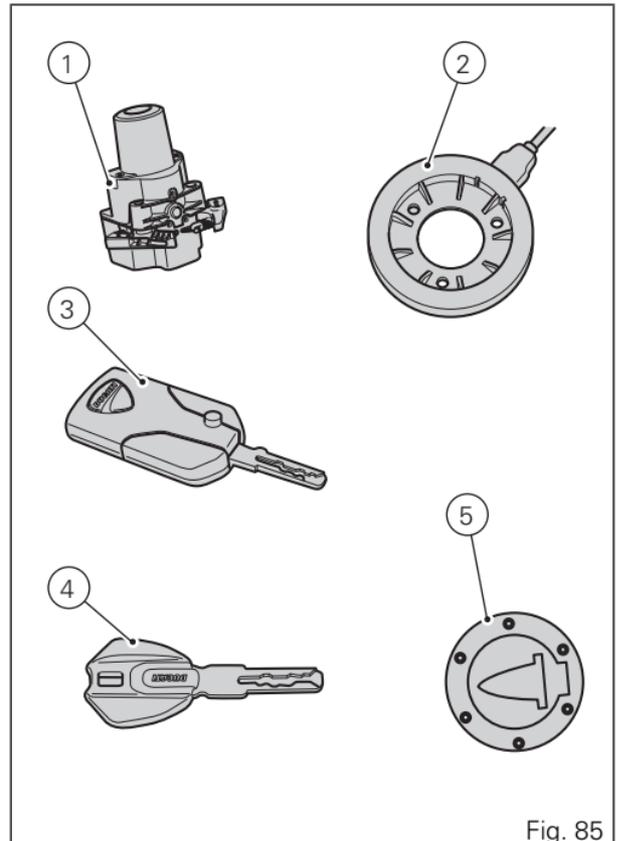


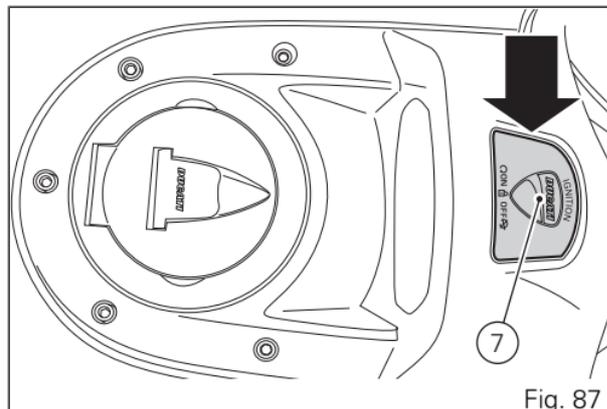
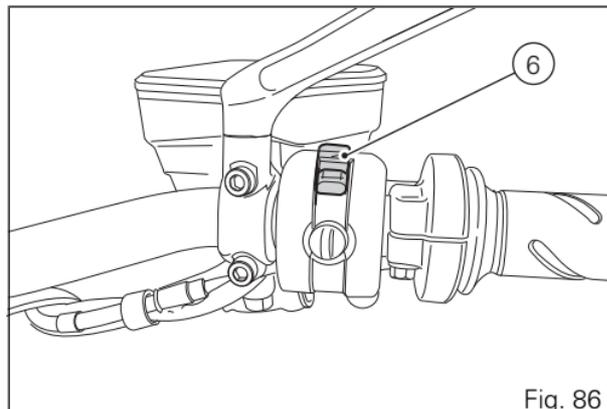
Fig. 85

Hands free system Key-On and Key-Off

Key-On consists in turning on the hands free system and all of its electronic devices. Key-Off consists in turning off the hands free system and all electronic devices, and makes sure the engine is turned off. Key-On is done using the button (6) on the handlebar on the right switch or using the emergency button (7) on the Hands free lock. Key-Off is done using the button (6) on the handlebar on the right switch or using the button (7) on the Hands free lock.

Note

The use of one of the two buttons (6) or (7) does not exclude the other, ex.: if you turn it on with one, you can turn it off with the other and vice versa.



Key-On can only occur in the presence of one of the two keys (3) or (4) or using the pin code. Key-Off can also occur without a key (3) or (4). Key-Off occurs when the speed of the motorcycle is equal to zero, pressing the button (6) on the handlebar or by pressing the Hands free button (7); at a speed other than zero, only by pressing the Hands free button (7).

The mechanical part (A) of the key (3) is used to open the fuel cap and the seat and bag lock. The metal part (A) of the key (3) remains hidden inside its housing, it exits by pressing the button (B).



Note

With the vehicle in Key-On and "engine off", if the presence of the active key (3) is not detected for thirty consecutive seconds, the motorcycle will turn off automatically without any action by the rider.

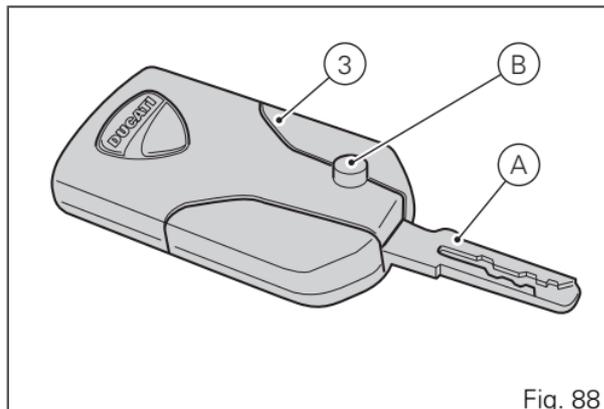


Fig. 88

Key-On/Key-Off using the red button on the handlebar with the active key

A Key-On can be performed by pressing the red button (6) on the handlebar in the HANDS FREE ON/OFF position and in the presence of the active key (3, Fig. 85).



Note

The active key (3) has a range of approx. 1.5 m, therefore it must be located within this range.

Key-Off can be performed by pressing the red button (6) on the handlebar in the HANDS FREE ON/OFF position. It can be done also without the key (3, Fig. 85) only if the motorcycle speed is equal to zero.

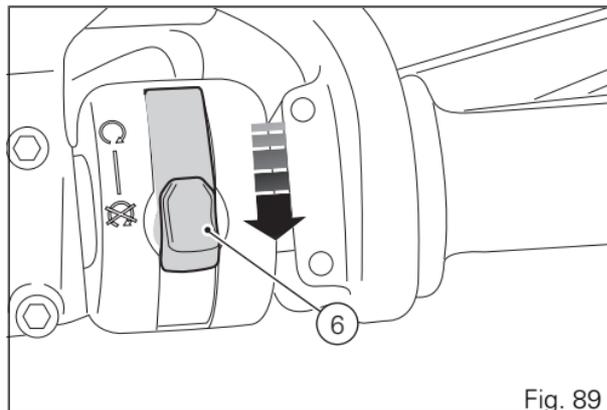


Fig. 89

Key-On/Key-Off using the key on the Hands free lock

with active key. Key-On can be performed by pressing the button (7) on the Hands free lock (1, Fig. 85) and with the presence of the active key (3, Fig. 85).

Note

The active key (3) has a range of approx. 1.5 m, therefore it must be located within this range.

Key-Off can be performed by pressing the button (7) on the Hands free lock (1, Fig. 85), also without the key (3, Fig. 85).

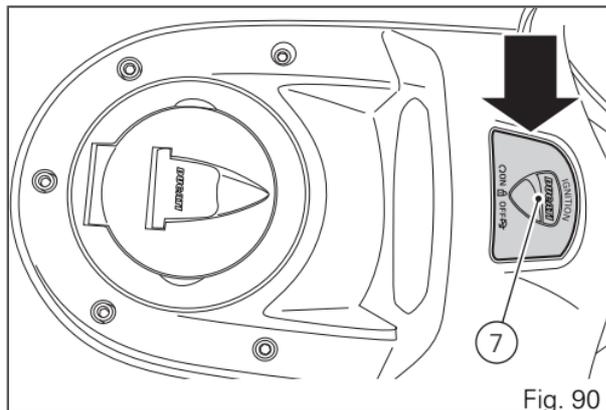


Fig. 90

Key-On/Key-Off using the red button on the handlebar with the passive key

A Key-On can be performed by pressing the red button (6) on the handlebar in the HANDS FREE ON/OFF position and in the presence of the passive key (4, Fig. 85).



Note

The passive key has a range of a few cm, therefore the key must be positioned near the antenna. Remove the seat to reach the antenna.

Key-Off can be performed by pressing the red button (6) on the handlebar in the HANDS FREE ON/OFF position. It can be done also without the key (4, Fig. 85) only if the motorcycle speed is equal to zero.

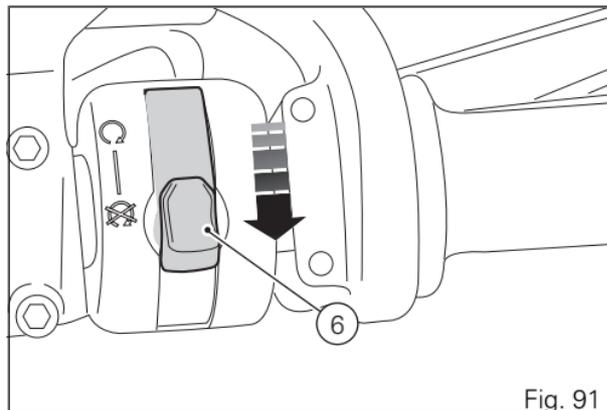


Fig. 91

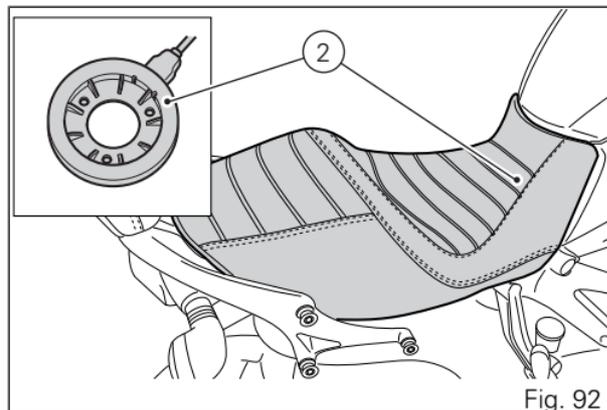


Fig. 92

Key-On/Key-Off using the key on the Hands free lock with the passive key

Key-On can be performed by pressing the button (7) on the Hands free lock and with the presence of the passive key (4, Fig. 85).



Note

The passive key has a range of a few cm, therefore the key must be positioned near the antenna. Remove the seat to reach the antenna.

Key-Off can be performed by pressing the button (7) on the Hands free lock (1, Fig. 85), also without the key (4, Fig. 85).

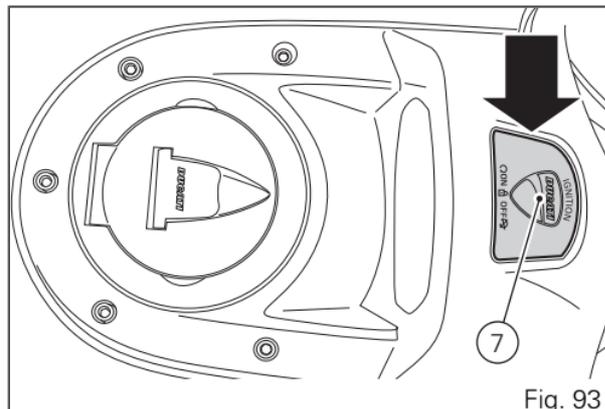


Fig. 93

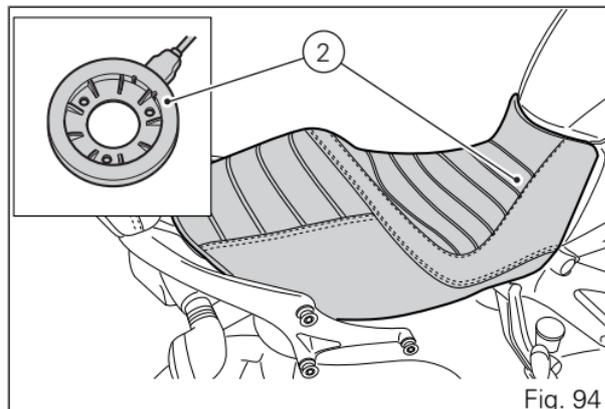


Fig. 94

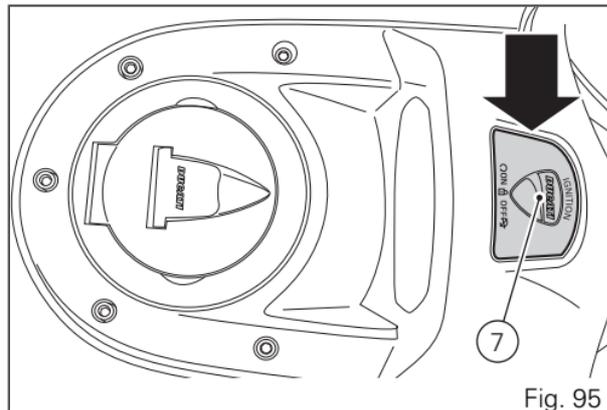
Key-On/Key-Off using the pin code (immobilizer release)

Key-On can be performed by pressing the button (7) on the hands free lock (1, Fig. 85) without the presence of the keys (3, Fig. 85) and (4, Fig. 85) and entering the pin code on the dashboard.

Key-Off can be performed by pressing the button (6) on the handlebar / Hands Free key (7) / engine off no key.

After each Key-Off, at the next Key-On if the key is not present the pin code must be entered. The pin code is entered by the customer when receiving the motorcycle. The function is not enabled without the pin code. When the Hands Free button is pressed (7) the instrument panel activates the backlighting and the circular display to be able to enter the four digit pin code. Entering the correct pin turns on the instrument panel and enables engine starting.

The pin must be entered within 120 sec, after which a Key-Off occurs automatically.



Entering PIN CODE function for vehicle release

This function turns on the motorcycle "temporarily" in the case of HF (Hands Free) system "malfunctions". To activate the function, press the "emergency" Hands Free button (7) if the motorcycle cannot be turned on using the normal starter button.

After pressing the button, the instrument panel activates the "INSERT PIN CODE" indication on the display with four dashes "----" in the bottom line highlighted in green to enter the 4 digit PIN code.

Entering the code:

Press the reset button (4).

Each time you press the button (2) the displayed number increases from "0" to "9" and then returns to "0".

Repeat the procedure until entering the fourth digit. Press the reset button (4) to confirm. Press the reset button (4) again to confirm.

If the code is incorrect, the instrument panel will return to the four dashes "----" indication in order to enter the code again.



Note

There is no limit to the number of times the code can be re-entered; the instrument panel will turn off automatically 120 seconds after an attempt to enter the code.

If the entered code was correctly, the message "CORRECT" will flash on the display for 3 seconds. After 3 seconds, the instrument panel will return to the "normal" view (with all indications active). From this moment, the vehicle can be started using the start button (Key-On).



Note

The vehicle can be started until a Key-Off is performed; if the problem still persists upon the next starting attempt, repeat the procedure from the beginning in order to start the motorcycle "temporarily".



Important

If this procedure is necessary in order to start the motorcycle, contact an Authorised Ducati Service Centre as soon as possible to fix the problem.

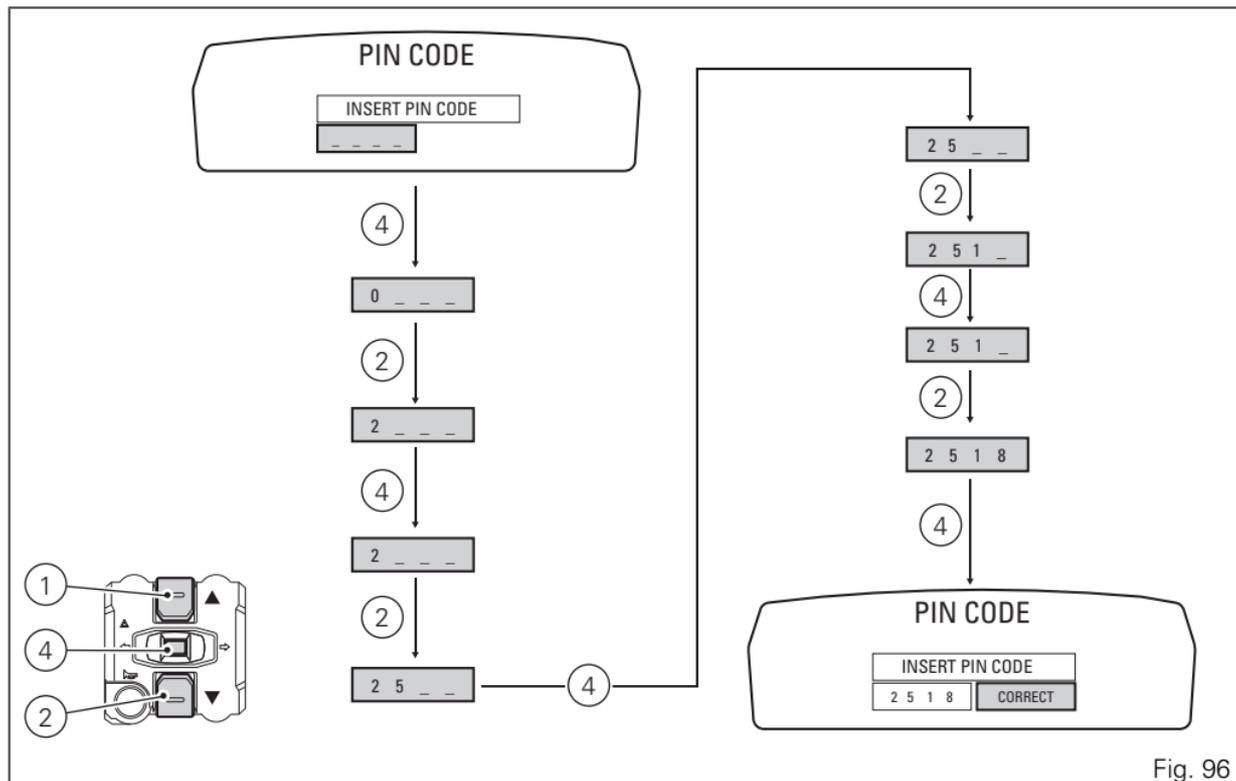


Fig. 96

Left-hand switch

- 1) Dip switch, two-position light selector switch:
(A) every time it is pressed down the light switches from low beam on  to low beam and high beam on  .
(B) pushed to the side  = high beam flasher (FLASH), "Start-Stop lap" function.
- 2) Switch  = three-position turn indicator:
centre position = off;
position  = left turn;
position  = right turn.
- 3) Turn indicator off, "Riding mode" activation and menu navigation button.
- 4) Button () = warning horn.
- 5) Navigation menu, display scroll and TRIP1 and TRIP2 reset button.
- 6) Navigation menu, display scroll button.

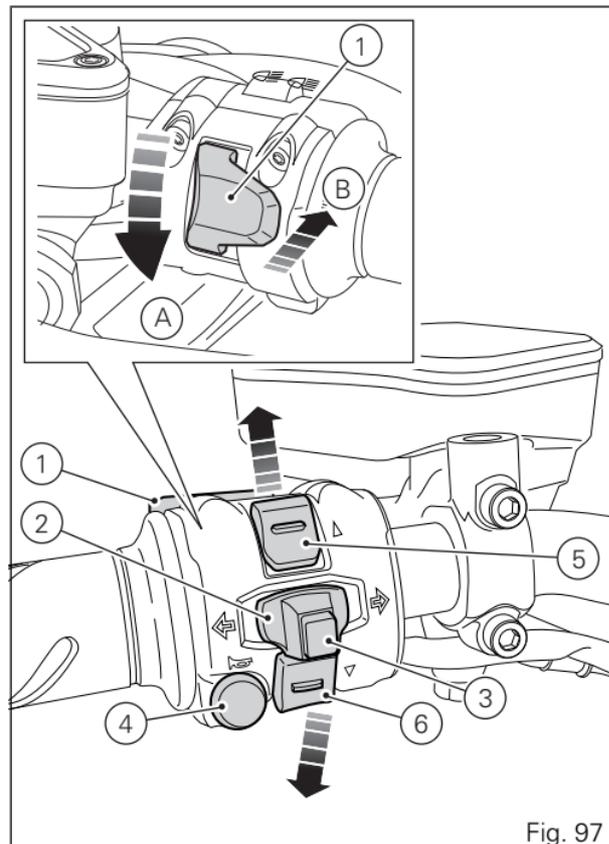


Fig. 97

Clutch lever

Lever (1) disengages the clutch. It features a dial adjuster (2) for lever distance from the twistgrip on handlebar. The lever distance can be adjusted through 10 clicks of the dial (2). Turn clockwise to increase lever distance from the twistgrip. Turn the adjuster counter clockwise to decrease lever distance. When the clutch lever (1) is operated, drive from the engine to the gearbox and the drive wheel is disengaged. Using the clutch properly is essential to smooth riding, especially when moving off.

Warning

Set clutch lever when motorcycle is stopped.

Important

Using the clutch properly will avoid damage to transmission parts and spare the engine.

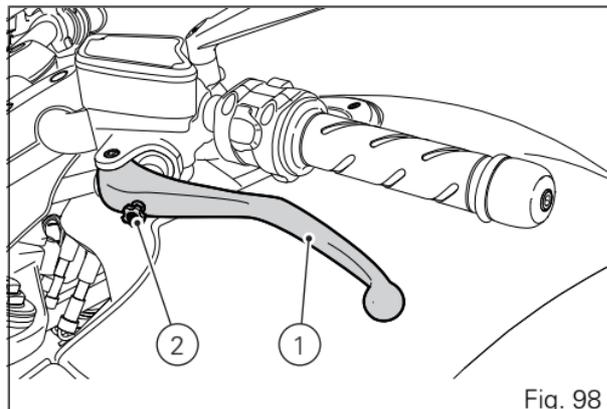


Fig. 98

Note

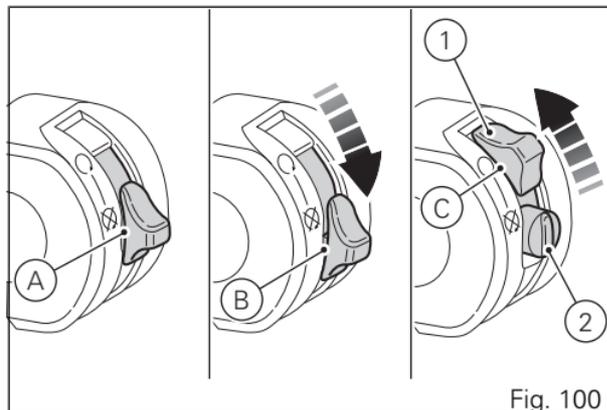
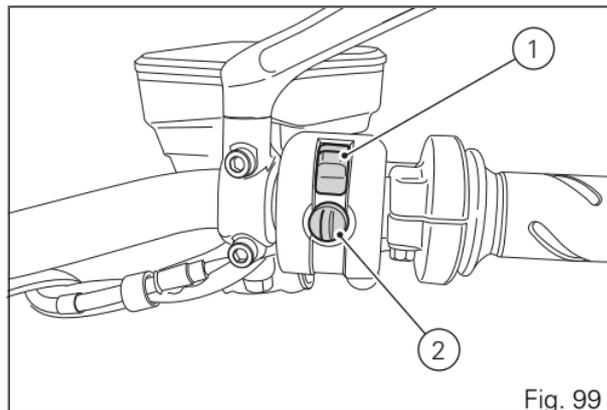
The engine can be started with the side stand down and the gearbox in neutral. If starting with a gear engaged, pull in the clutch lever (in this case the side stand must be up).

Right-hand switch

- 1) Red ON/OFF switch.
- 2) Black ENGINE START button

The switch (1) has three positions:

- A) centre: RUN OFF. In this position, the engine cannot be started and all electronic devices are off.
- B) pushed down: ON/OFF. In this position, the system can be turned on (Key-On) and off (Key-Off).
- C) pushed up: RUN ON. The engine can only be started in this position, pushing the black button (2).



Throttle twistgrip

The twistgrip (1) on the right handlebar opens the throttles.

When released, it will spring back to the initial position (idling speed).

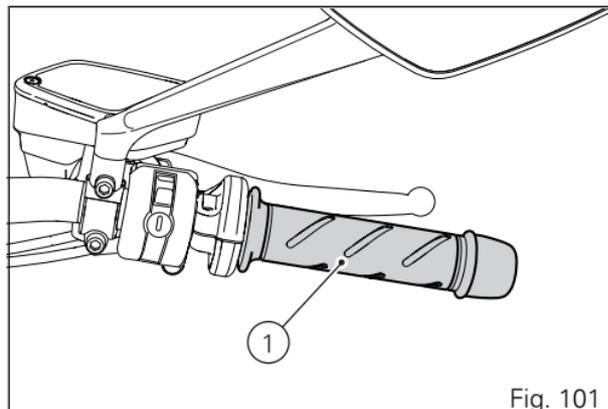


Fig. 101

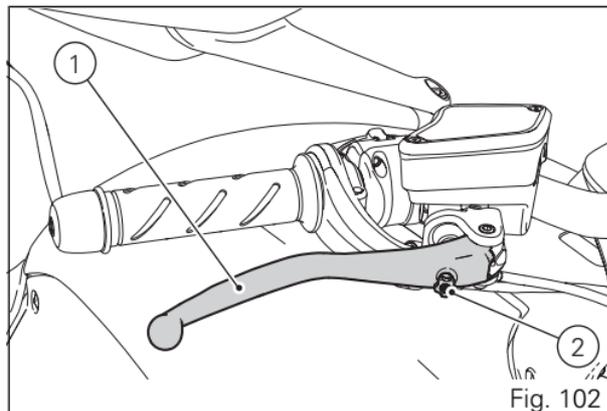
Front brake lever

Pull in the lever (1) towards the twistgrip to operate the front brake. The system is hydraulically operated and you just need to pull the lever gently.

The brake lever (1) has a dial (2) for adjusting the distance between lever and twistgrip on the handlebar.

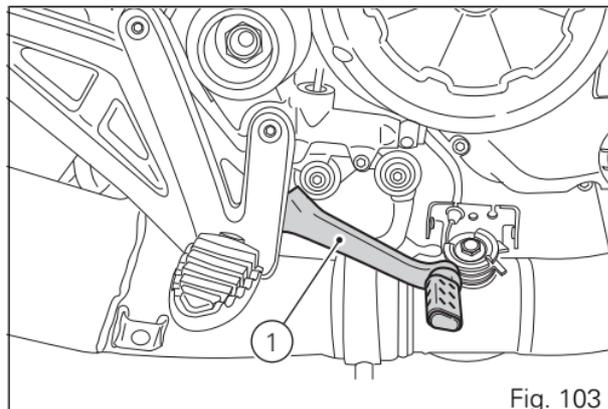
The lever distance can be adjusted through 10 clicks of the dial (2).

Turn clockwise to increase lever distance from the twistgrip. Turn the adjuster counter clockwise to decrease lever distance.



Rear brake pedal

Push down on the pedal (1) to apply the rear brake.
The system is hydraulically operated.



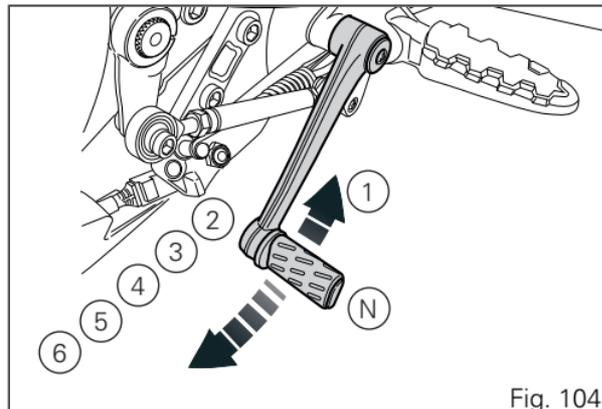
Gear change pedal

When released, the gear change pedal (1) automatically returns to rest position N in the centre. This is indicated by the instrument panel light N (2, Fig. 3) coming on.

The pedal can be moved:

- down = press down the pedal to engage the 1st gear and to shift down. The N light will go out;
- upwards= lift the pedal to engage 2nd gear and then 3rd, 4th, 5th and 6th gears.

Each time you move the pedal you will engage the next gear.



Adjusting the position of the gearchange and rear brake pedals

The position of the gearchange and rear brake pedals in relation to the footrests can be adjusted to suit the requirements of the rider.

Adjust the pedals as follows:

Gear change pedal

hold the linkage (1) and slacken the lock nuts (2) and (3).

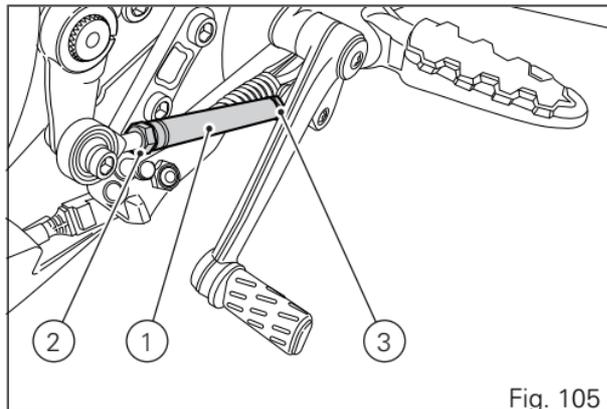


Note

Nut (2) has a left-hand thread.

Fit an open-end wrench to hexagonal element of linkage (1) and rotate until setting pedal in the desired position.

Tighten both check nuts onto linkage.



Rear brake pedal.

Loosen counter nut (7).

Turn pedal stroke adjusting screw (6) until pedal is in the desired position.

Tighten the counter nut (7).

Operate the pedal by hand to check that there is a free play of 3 to 6 mm before the brake bites.

If not, adjust the length of the master cylinder pushrod as follows.

Slacken off the counter nut (10) on the pushrod.

Screw the pushrod (8) into the fork (9) to increase the free play, or screw it out to reduce it.

Tighten the counter nut (10) and recheck the pedal freeplay.

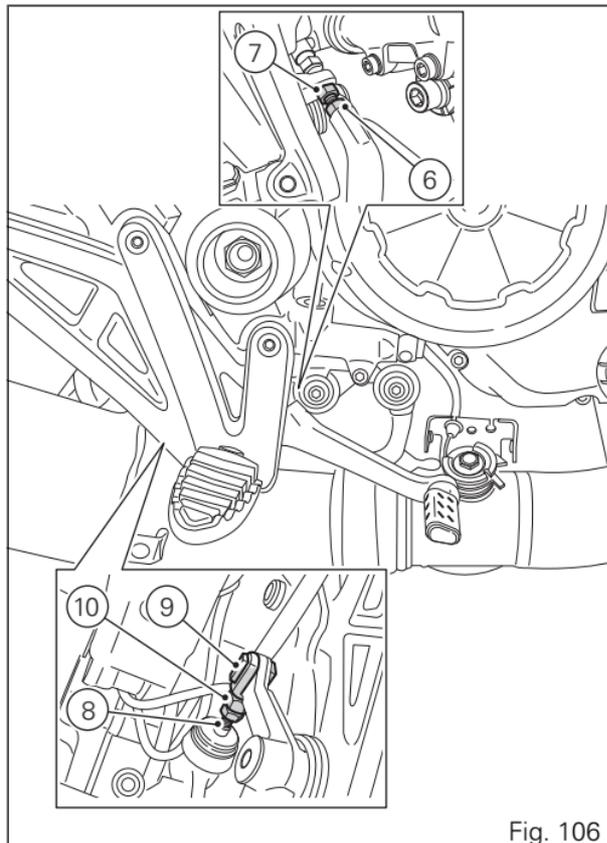


Fig. 106

Main components and devices

Position on the vehicle

- 1) Tank filler plug.
- 2) Seat lock.
- 3) Side stand.
- 4) Rear-view mirrors.
- 5) Front fork adjusters.
- 6) Rear shock absorber adjusters.
- 7) Catalytic converter.
- 8) Exhaust silencer.
- 9) Power outlet.

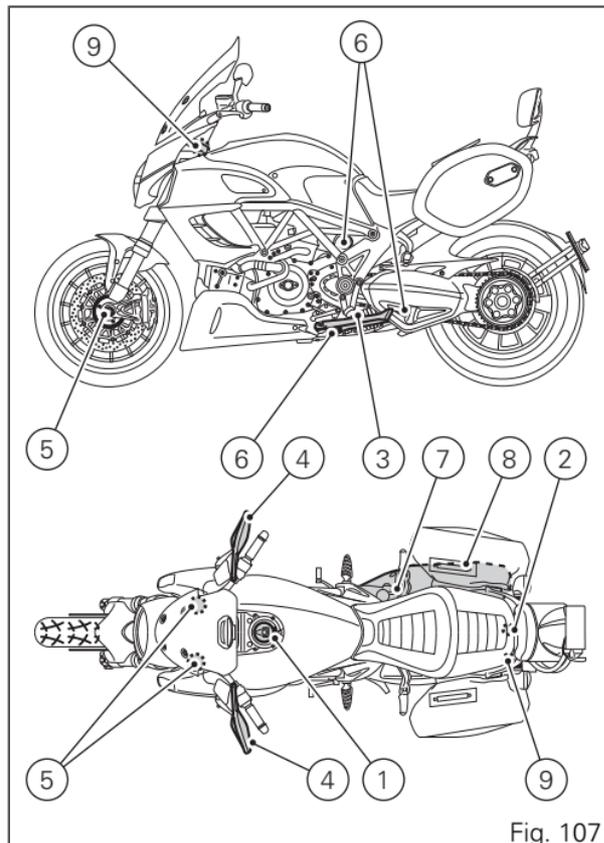


Fig. 107

Tank filler plug



Note
To open or close the tank filler plug using the active key, set the metal part in the middle position.

Opening

Lift the cover (1) and insert the active or passive key into the lock.

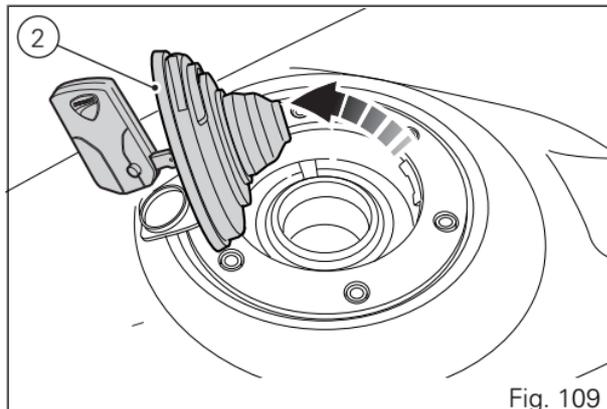
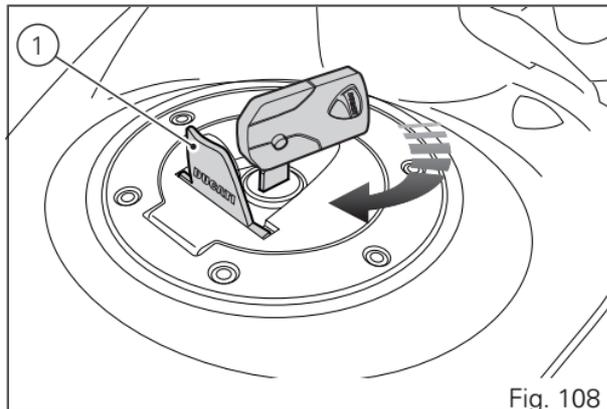
Turn the key clockwise 1/4 turn to unlock.

Lift the plug (2).

Closing

Close the cap (2) with the key inserted and press it into its seat.

Remove the key and replace the lock cover (1).





Note

The plug can only be closed with the key in.



Warning

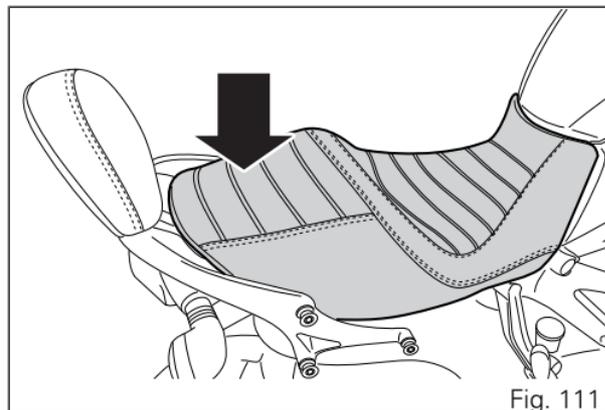
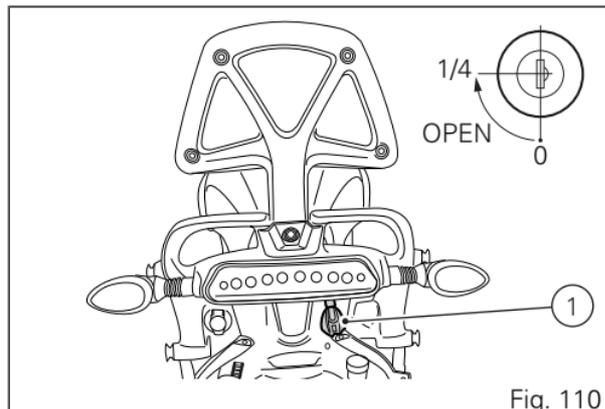
Always make sure you have properly refitted and closed the plug after refuelling.

Seat lock

Work latch (1) to remove the seat and access to the underseat compartment and any other device under it.

Removal of the seat

Insert the active or passive key in the lock (1), turn it clockwise and simultaneously apply downward pressure in the area of the catch to release the pin. Pull the seat backwards to release it from the front catches.



Helmet cable



Note

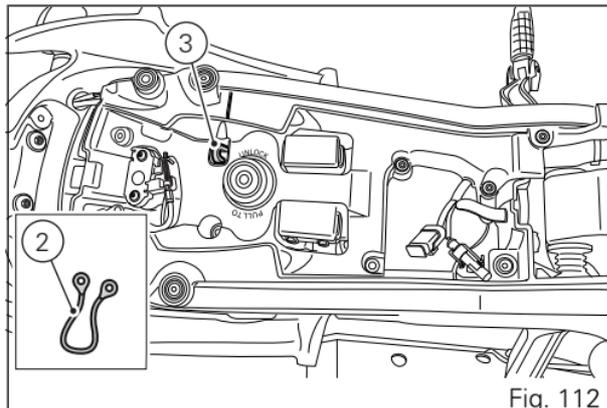
The helmet fastening cable is located inside the tool kit.

Pass the cable through the helmet and insert the end of the cable in the pin (3). Leave the helmet hanging and refit the seat to hold it in place.



Warning

This device protects the helmet against theft when the motorcycle is parked. Do not leave the helmet attached when riding the motorcycle; it could interfere with your movements and cause loss of control of the motorcycle.



Refitting the seat

Make sure all parts are correctly arranged and secured in the underseat compartment. Insert the mounts (4) of the seat base in the projecting parts (5) of the frame, then push the rear end of the seat until you hear the bolt in the lock click into place. Make sure that the seat is firmly secured to the frame and remove the key from the lock.

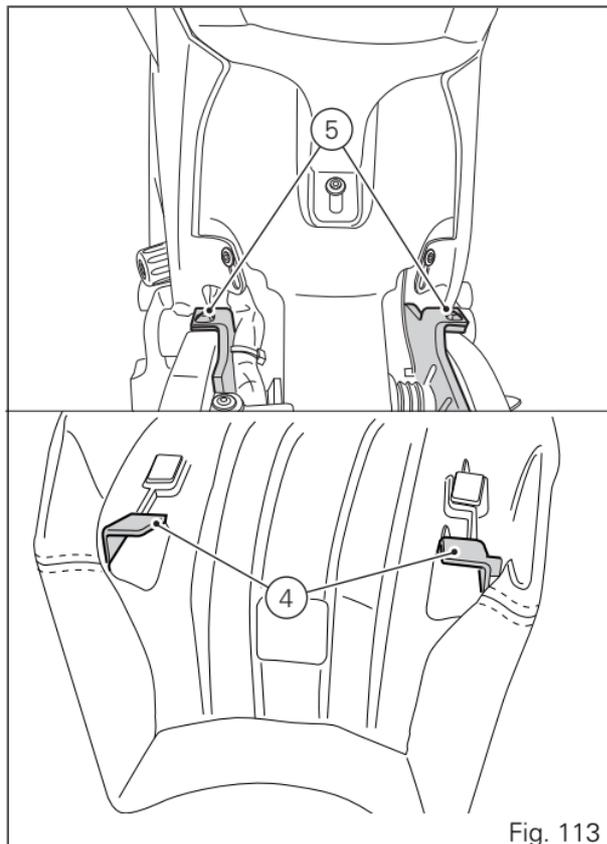


Fig. 113

Side stand

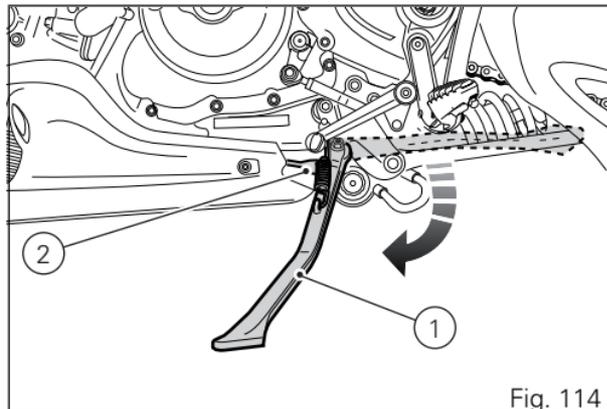
Important

Place the motorcycle on the side stand only when you are not going to use it for short periods of time. Before lowering the side stand, make sure that the bearing surface is hard and flat.

Do not park on soft or pebbled ground or on asphalt melt by the sun heat and similar or the motorcycle may fall over. When parking in downhill road tracts, always park the motorcycle with its rear wheel facing downhill.

To pull down the side stand, hold the motorcycle handlebars with both hands and push down on the side stand (1) with your foot until it is fully extended. Tilt the motorcycle until the side stand is resting on the ground.

To move the side stand to its rest position (horizontal position), lean the motorcycle to the right while lifting the thrust arm (1) with your foot.



Warning

Do not sit on the motorcycle when it is supported on the side stand.

Note

Check for proper operation of the stand mechanism (two springs, one into the other) and the safety sensor (2) at regular intervals.



Note

The engine can be started with the side stand down and the gearbox in neutral. If starting with a gear engaged, pull in the clutch lever (in this case the side stand must be up).

Power outlet

The motorcycle is provided with two 12 V outlets protected by a fuse located in the rear fuse box. Maximum 4 A devices can be connected to each outlet (when using both outlets at the same time), or maximum 8 A devices when using only one power outlet.

Power outlet (1) is located under the handlebar, and power outlet (2) is positioned under the rear subframe.



Important

When the engine is off, do not leave accessories connected to the power outlets for a long period of time as the motorcycle battery could run flat.

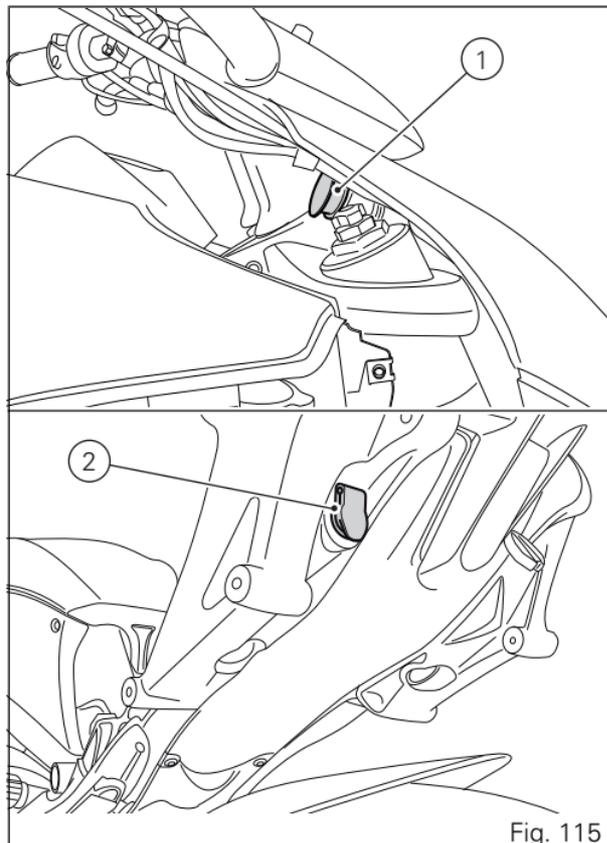


Fig. 115

Fitting the Ducati side panniers

Place supports (1) of pannier (2) in the three relevant seats (A) on the motorcycle.

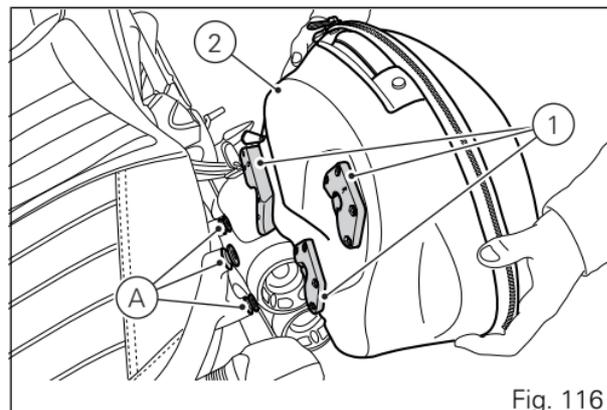


Fig. 116

Side pannier use

Opening

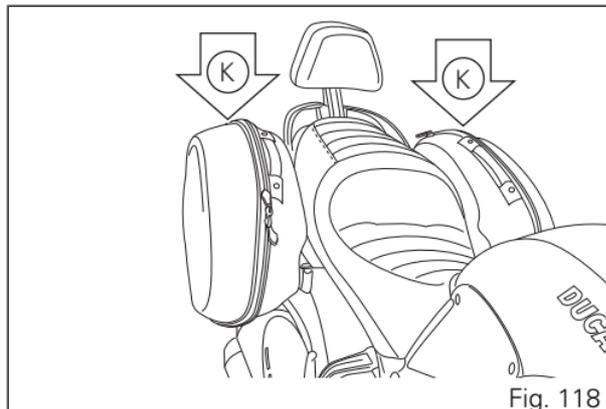
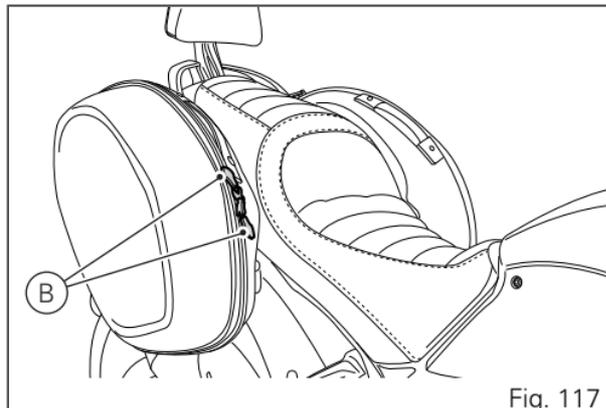
Open the pannier by pulling (in opposite directions) the two zips (B) and lower the external cover.

Important

Speed allowed with side panniers installed must NOT exceed 180 km/h (112 mph) and must in any case comply with statutory provisions.

Warning

Side panniers are for light luggage only: each pannier can contain a maximum of 5 kg (11 lb) (K). An excessive load could compromise the motorcycle control.



The pannier fixed side is provided with retaining belts (C) with which it is possible to support the baggage.

Warning

Position the baggage evenly by keeping the heaviest elements in the pannier innermost side to avoid unbalancing the vehicle.

Important

When riding in the rain, protect the pannier content using the internal water-proof bags.

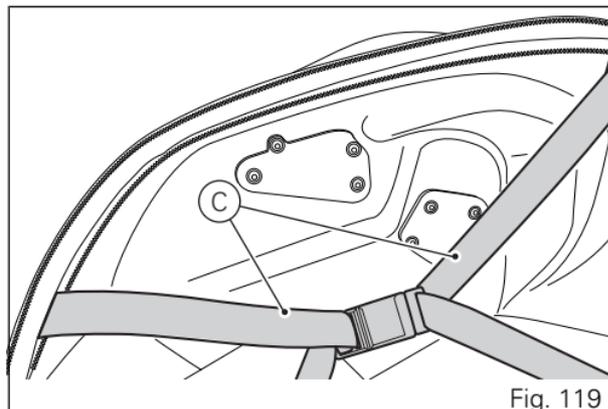
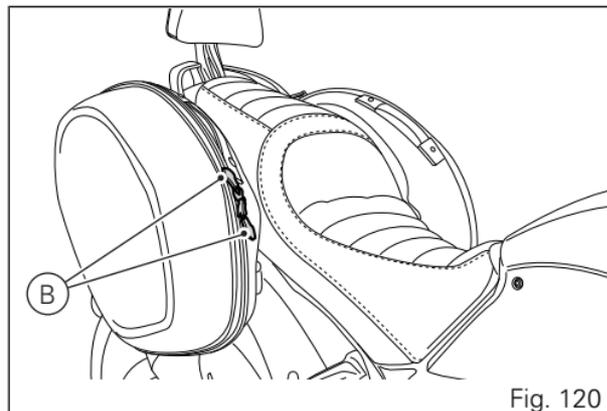


Fig. 119

Closing

To close the side pannier, lift up and close the external cover by closing both zips (B).



Removal

To remove the side pannier, turn the key clockwise, as shown in the figure. Push on the pannier and lift it by pulling it from handle (A).



Warning

To clean side panniers, use warm water, neutral soap and a soft cloth. Soap and a soft brush may be used to clean zips; rinse with clean water. Do not use aggressive detergents and hard cleaning utensils. Zips that are hard to open may be loosened with a small quantity of talcum powder.

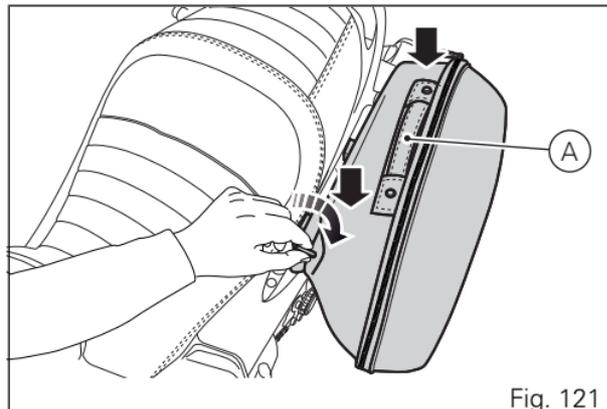


Fig. 121

Use of the waterproof cover

Under the rain, protect pannier content by means of the waterproof covers (1) found inside.

To guarantee waterproofing, fold cover edge THREE times, then close hook (2) on side opposite to fold, as indicated in (Fig. 123).

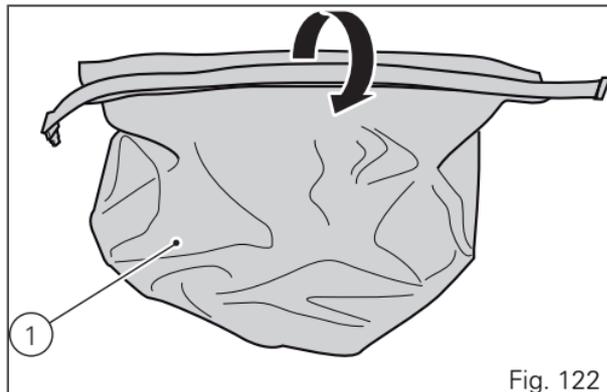


Fig. 122

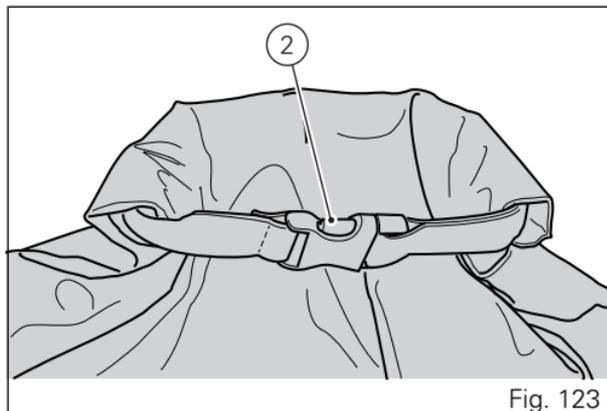
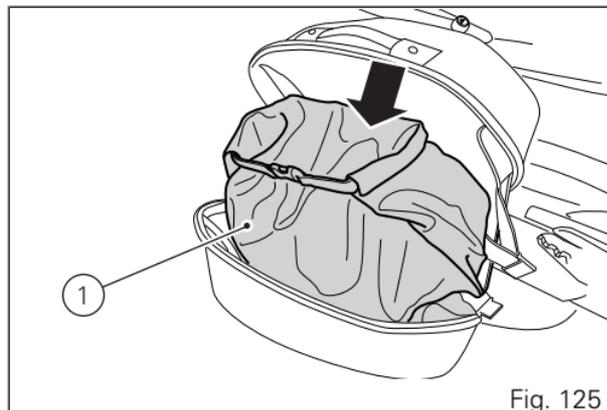
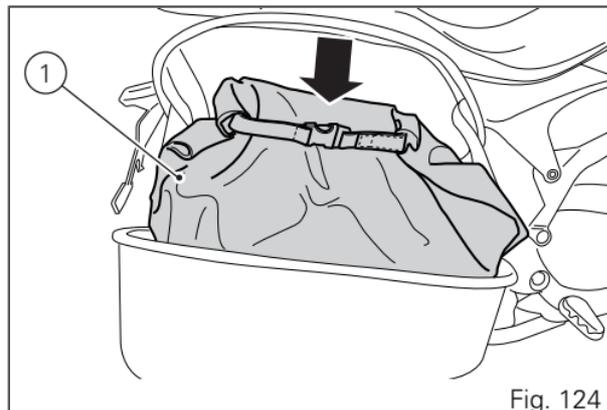


Fig. 123

Store bag (1) in side pannier ALWAYS with the folded side facing up.



Adjusting the front fork

The front fork used on this motorcycle has rebound, compression and spring preload adjustment. Adjustment is done by external screw adjusters.

- 1) to adjust rebound damping (Fig. 126);
- 2) to adjust spring preload (Fig. 126);
- 3) to adjust compression damping (Fig. 127).

Put the motorcycle on the side stand and make sure it is stable. Turn the knob (1) on every fork leg top with a suitable wrench to adjust rebound damping. Turn the adjuster (3) on fork leg bottom with a flat screwdriver to adjust compression damping. Turn the knob (1) and the adjusting screws (3) to adjust the dampening. The stiffest damping setting is obtained with the adjuster turned fully clockwise to the "0" position. Starting from this position, turning counter clockwise, you can count the turns.

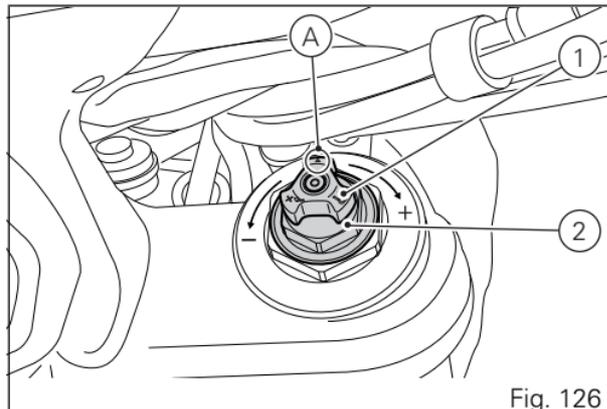


Fig. 126

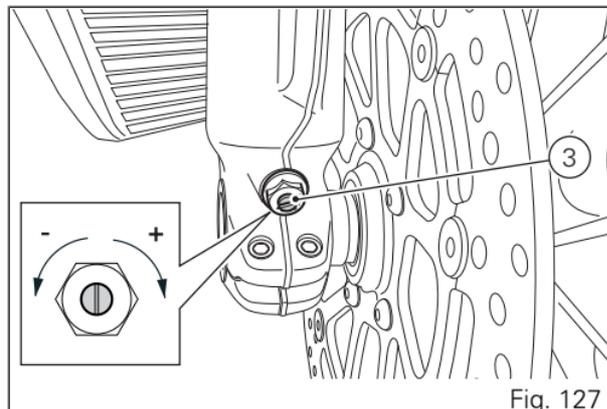


Fig. 127

To change preload of the spring inside each fork leg, turn the hex. adjuster (2, Fig. 126) with a 22 mm hexagon wrench, starting from the fully open (clockwise) position.

From reference (A, Fig. 126), every full turn clockwise corresponds to 1 mm of preload of the spring, up to a maximum of 15 mm, corresponding to 15 full turns.

STANDARD settings, from fully closed position, are as follows:

- compression: 1 and a half turns;
- rebound: 1 and a half turns.
- Spring preload: FULLY OPEN (counter clockwise).



Warning

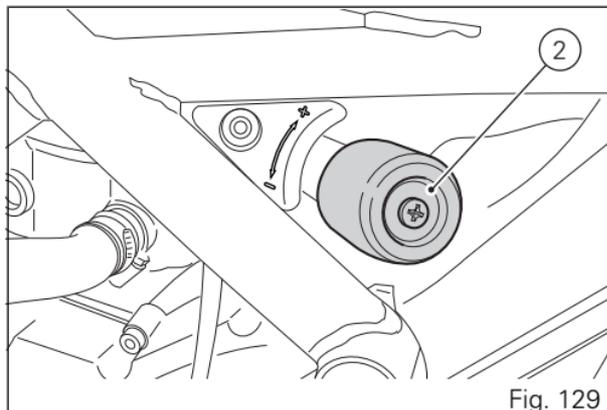
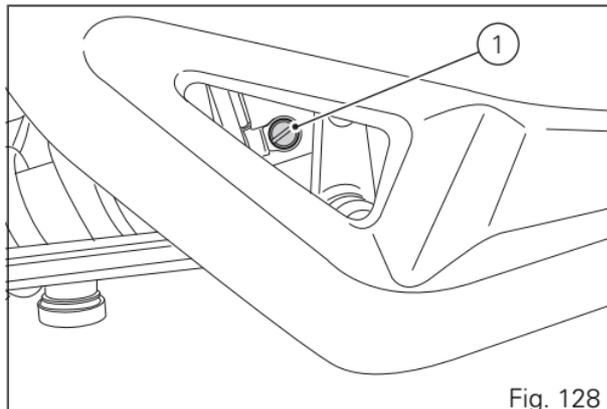
Adjust both fork legs to same settings.

Adjusting the rear shock absorber

The rear shock absorber has external adjusters that enable you to adjust the setting to suit the load on the motorcycle.

The adjuster (1, Fig. 128), located on the lower connection holding the shock absorber to the swingarm adjusts the damping during the rebound phase (return).

The knob (2, Fig. 129) located on the left side of the motorcycle, adjusts the preload of the shock absorber external spring.



The knob (3, Fig. 130), located on the expansion reservoir of the shock absorber adjusts the damping during the compression phase. Turning the adjusters (1) or the knobs (2) and (3) clockwise to increase preload or damping; they decrease turning them in the opposite direction.

STANDARD setting: from the fully closed position (clockwise) loosen:

- adjuster (1) by 12 clicks;
- knob (2) FULLY OPEN (counter clockwise);
- knob (3) by 25 clicks.

When carrying a passenger and luggage, set the rear shock absorber spring to proper preload to improve motorcycle handling and keep safe clearance from the ground. You may find that rebound damping needs adjusting as well.

Warning

The shock absorber is filled with gas under pressure and may cause severe damage if taken apart by unskilled persons.

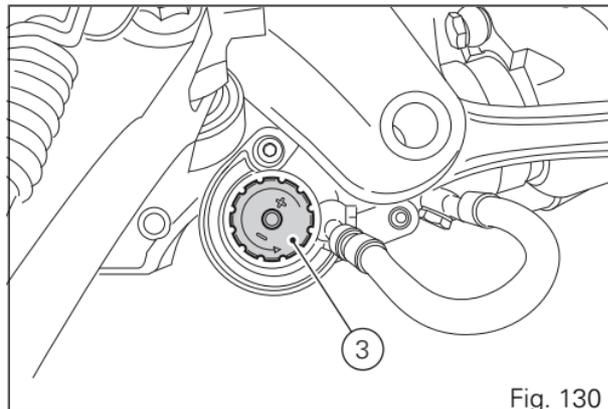


Fig. 130

Values specified in the table are indicative and refer to a rider weighing (with clothes on) 80-90 kg and a passenger weighing (with clothes on) 70-80 kg.

Front fork						
		Range	Default	Sport	Touring	Urban
Rider only	Compression	0 ÷ 3	1.5	0.5	1	1.5
	Rebound	0 ÷ 3	1.5	1	1.5	1.5
	Preload	0 ÷ 15	0	4	1	0
Rider and passenger	Compression	0 ÷ 3	1.5	0	0.5	1
	Rebound	0 ÷ 3	1.5	1.5	1.5	1.5
	Preload	0 ÷ 15	0	7	4	2
Rear shock absorber						
Rider only	Compression	0 ÷ 40	25	6	15	25
	Rebound	0 ÷ 24	12	4	9	12
	Preload	0 ÷ 28	0	20	10	0
Rider and passenger	Compression	0 ÷ 40	25	4	6	15
	Rebound	0 ÷ 24	12	6	8	10
	Preload	0 ÷ 28	0	28	20	15

Spring for customised setting



Note

To make the rear shock absorber spring better suit the user, it is possible to order two types of spare springs:

- spring part no. 36640321A is recommended for a user weight of about 120 Kg;
- spring part no. 36640331A is recommended for a user weight of about 150 Kg.

Recommended assembly setting for the above customisation is always with preload knob/press set to zero, so as to have another 10 mm preload available, if required.



Warning

Please contact a Ducati Dealer to order and install these springs.

Riding the motorcycle

Running-in recommendations

Maximum rpm

Rotation speed for running-in period and during standard use (rpm):

- 1) up to 1000 km;
- 2) from 1000 to 2500 km.

Up to 1000 km

During the first 1000 km, keep an eye on the rev counter. It should never exceed: 5,500÷6,000 rpm. During the first hours of riding, it is advisable to run the engine at varying load and rpm, though still within recommended limit.

To this end, roads with plenty of bends and even slightly hilly areas are ideal for a most efficient running-in of engine, brakes and suspensions. For the first 100 km use the brakes gently. Avoid sudden or prolonged braking. This will allow the friction material on the brake pads to bed in against the brake discs. For all mechanical parts of the

motorcycle to adapt to one another and above all not to adversely affect the life of basic engine parts, it is advisable to avoid harsh accelerations and not to run the engine at high rpm for too long, especially uphill. Furthermore, the drive chain should be inspected frequently. Lubricate as required.

From 1000 to 2500 km

At this point, you can squeeze some more power out of your engine. However never exceed 7,000 rpm.

Important

During the whole running-in period, the maintenance and service rules recommended in the Warranty Card should be observed carefully. Failure to follow these instructions releases Ducati Motor Holding S.p.A. from any liability whatsoever for any engine damage or shorter engine life.

Strict observance of running-in recommendations will ensure longer engine life and reduce the likelihood of overhauls and tune-ups.

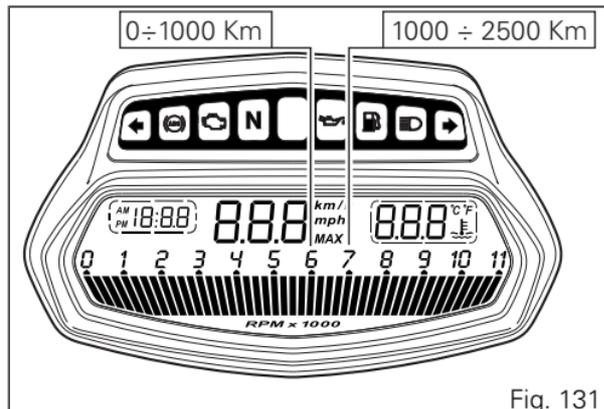


Fig. 131

Pre-ride checks



Warning

Failure to carry out these checks before riding, may lead to motorcycle damage and injury to rider and passenger.

Before riding, perform a thorough check-up on your bike as follows:

- FUEL LEVEL IN THE TANK
Check the fuel level in the tank. Fill tank if needed (page 188).
- ENGINE OIL LEVEL
Check the oil level in the sump through the sight glass. Top up if needed (page 216).
- BRAKE AND CLUTCH FLUID
Check fluid level in the relevant reservoirs (page 190).
- COOLANT
Check coolant level in the expansion reservoir. Top up if needed (page 190).
- TYRE CONDITION
Check tyre pressure and condition (page 214).

- CONTROLS
Work the brake, clutch, throttle and gear change controls (levers, pedals and twistgrip) and check for proper operation.
- LIGHTS AND INDICATORS
Make sure lights, indicators and horn work properly. Replace any burnt-out bulbs (page 210).
- KEY-OPERATED LOCKS
Ensure that fuel filler plug (page 153) and seat (page 155) are locked.
- SIDE STAND
Make sure that side stand operates smoothly and is in the correct position (page 158).

ABS light

After Key-On, the ABS light (9) stays on.
When the vehicle speed exceeds 5 km/h, the warning light switches off to indicate the correct operation of the ABS system.



Warning

In case of malfunction, do not ride the motorcycle and contact a Ducati Dealer or authorised Service Centre.

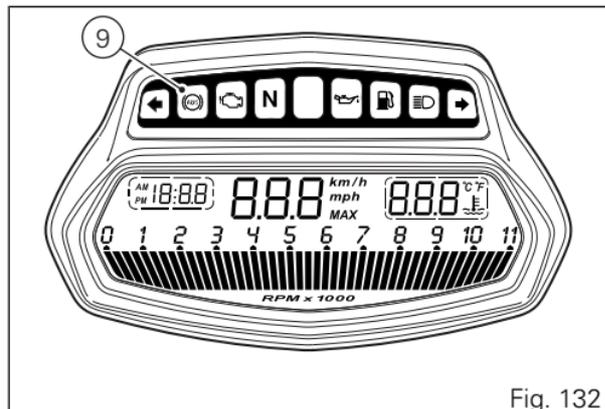


Fig. 132

ABS device

Check that the front (1) and rear (2) phonic wheels are clean.

Warning

Clogged reading slots would compromise system proper operation. It is recommended to disable ABS system in case of muddy road surface because under this condition the system might be subject to sudden failure.

Warning

Prolonged rearing could deactivate the ABS system.

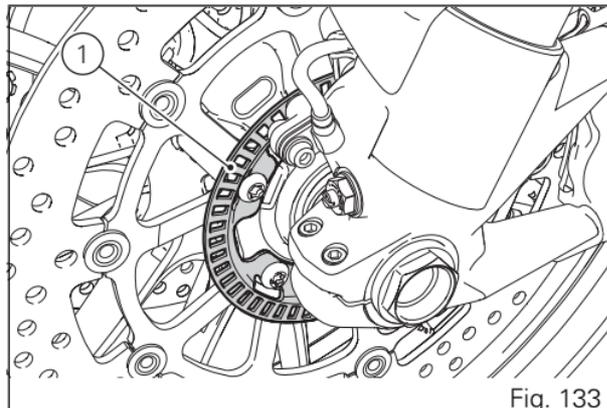


Fig. 133

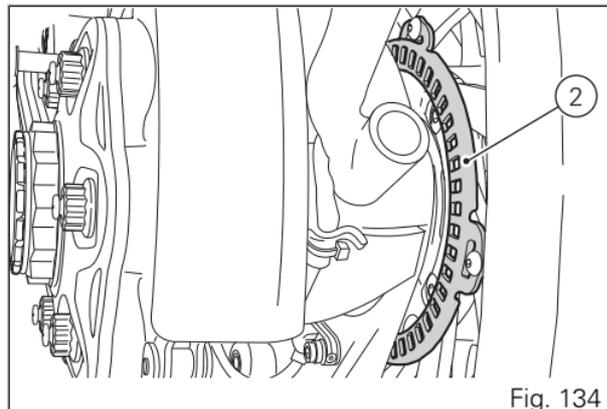


Fig. 134

Engine on / off

Warning

Before starting the engine, become familiar with the controls you will need to use when riding.

Warning

Never start or run the engine indoors. Exhaust gases are poisonous and may lead to loss of consciousness or even death within a short time.

In the presence of the active or passive key, perform a Key-On (turning on the "Hands free" system and all on-board electronic devices) by pushing the red switch (1), on the right side of the handlebar, downward.

The instrument panel on handlebar will perform the initialisation and will control the on-board systems, turning on all lights in sequence, from outside to inside, for a few seconds. After this control, only the green light (2) and the red light (3) must remain on.

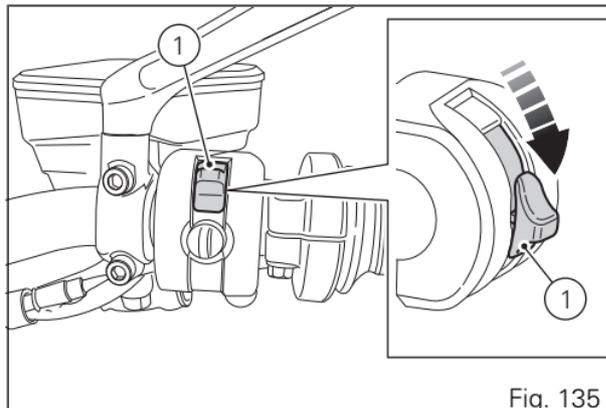


Fig. 135

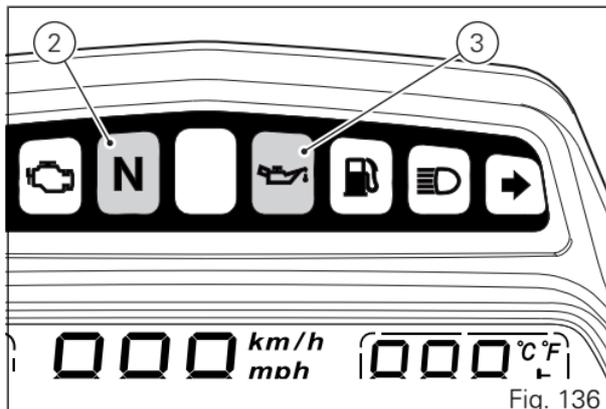


Fig. 136

Warning

The side stand must be fully up (in a horizontal position) as its safety sensor prevents engine start when down.

After Key-On, but with the engine not yet started, the system will perform a Key-Off automatically if the presence of the active key is not detected within 10 seconds.

Note

It is possible to start the engine with side stand down and the gearbox in neutral. When starting the motorcycle with a gear engaged, pull the clutch lever (in this case the side stand must be up).

Move the red switch (1) up to uncover the black button (4).

Push the button (4) to start the engine.

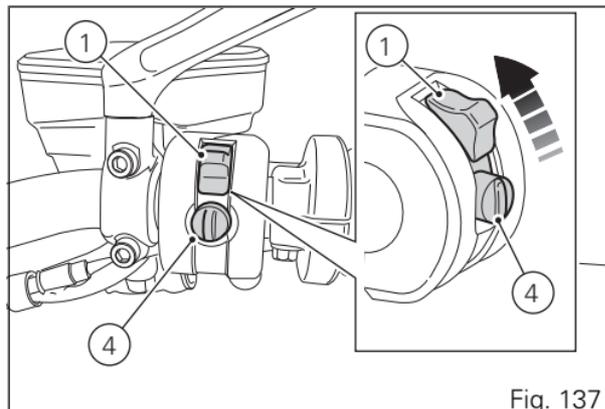


Fig. 137

Important

Do not rev up the engine when it is cold. Allow some time for oil to be heated and reach all points that need lubricating.

The red oil pressure warning light should go out a few seconds after the engine has started.

The engine will shut off by turning the red key (1) on the handlebar to RUN OFF.



Note

To turn on the “Hands free” system and all electronic on-board systems, refer to “Hands Free System”.

Moving off

- 1) Disengage the clutch by squeezing the clutch lever.
- 2) Push down the gear change lever firmly with the tip of your foot to engage first gear.
- 3) Raise the engine revs by turning the throttle twistgrip while gradually releasing the clutch lever. The motorcycle will start moving off.
- 4) Release the clutch lever completely and accelerate.
- 5) To shift up, close the throttle to slow down engine, disengage the clutch, lift the gear change lever and let go of clutch lever. To shift down, proceed as follows: release the twistgrip, pull the clutch lever, shortly speed up to help gears synchronise, shift down (engage next lower gear) and release the clutch.

The controls should be used correctly and timely: when riding uphill do not hesitate to shift down as soon as the motorcycle tends to slow down, so you will avoid stressing the engine and the motorcycle abnormally.



Warning

Avoid harsh accelerations, as this may lead to misfiring and transmission snatching. The clutch lever should not be held in longer than necessary after a gear is engaged, otherwise friction parts may overheat and wear out.



Warning

Prolonged rearing could deactivate the ABS system.

Braking

Slow down in time, shift down to engine-brake first and then brake applying both brakes.

Pull the clutch lever before stopping the motorcycle, to avoid sudden engine stop.

ABS system

Using the brakes correctly under adverse conditions is the hardest – and yet the most critical - skill to master for a rider.

Braking is one of the most difficult and dangerous moments when riding a two wheeled vehicle: the possibility of falling or having an accident during this difficult moment is statistically higher than any other moment. A locked front wheel leads to loss of traction and stability, resulting in loss of control. The Anti-Lock Brake System (ABS) has been developed to enable riders to use the vehicles braking force to the fullest possible amount in emergency braking or under poor pavement or adverse weather conditions. ABS uses hydraulics and electronics to limit pressure in the brake circuit when a special sensor mounted to the wheel signals the electronic control unit that the wheel is about to lock up. This avoids wheel lockup and preserves traction. Pressure is raised back up immediately and the control unit keeps controlling the brake until the risk of a lockup disappears.

Normally, the rider will perceive ABS operation as a harder feel or a pulsation of the brake lever and pedal. The front and rear brakes use separate control systems, meaning that they operate independently. Likewise, the ABS is not an integral braking system

and does not control both the front and rear brake at the same time. If desired, the system can be deactivated from the instrument panel, using the "ABS disabling function" page 105.



Warning

Use both brake lever and pedal for effective braking. Never use the brake controls harshly or suddenly as you may lock the wheels and lose control of the motorcycle. When riding in the rain or on slippery surfaces, braking will become less effective. Always use the brakes very gently and carefully when riding under these conditions. Any sudden manoeuvres may lead to loss of control. When tackling long, high-gradient downhill road tracts, shift down gears to use engine braking. Apply one brake at a time and use brakes sparingly. Keeping the brakes applied all the time would cause the friction material to overheat and reduce braking power dangerously. Underinflated or overinflated tyres reduce braking efficiency, handling accuracy and stability in a bend.

Stopping the motorcycle

Reduce speed, shift down and release the throttle twistgrip.

Shift down to engage first gear and then neutral.

Apply the brakes and bring the motorcycle to a complete stop.

Turn off the engine moving the red switch (1).

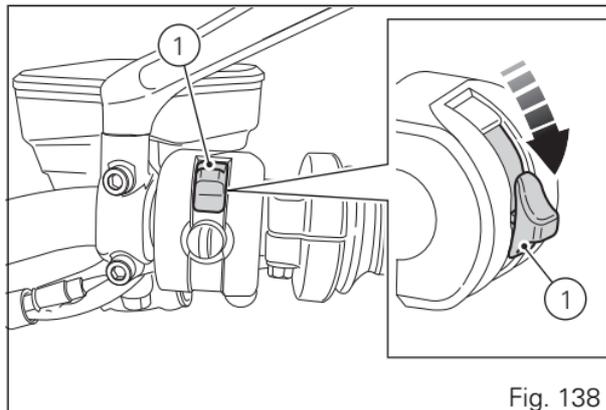


Fig. 138

Parking

Park the stopped motorcycle on the side stand. Turn the handle completely to the left or right. The steering lock can be engaged if this is done within 60 seconds from engine stop.

If you wish to lock the steering during this period of time, move down the red switch (1) again and hold it pressed for 3 seconds with the steering fully turned to the left or right.

After one second, the instrument panel reads "KEEP PRESSED FOR LOCK", this message will stay displayed for 2 seconds and the steering lock engages after this time. If the steering lock is correctly engaged, the instrument panel displays the message: "STEERING LOCKED".

While if it fails to engage, after 5 seconds the instrument panel displays the message: "RED SWITCH NOT RELEASED".

If this is the case, release the switch and try locking the steering again within 60 seconds from Key-off.

In case of failed locking, contact a Ducati authorised Service Centre.

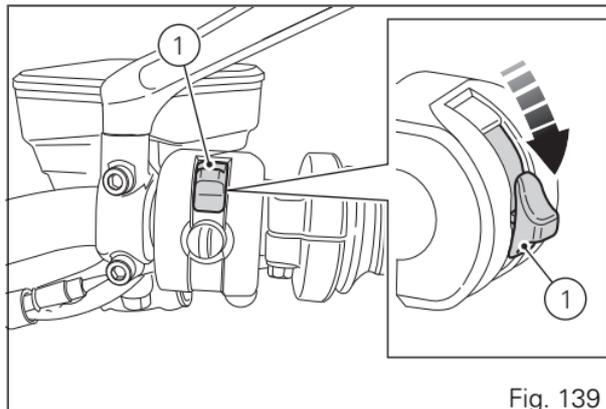


Fig. 139

Press (2, Fig. 140) for at least 3 seconds: the indication of the activated function (Fig. 141) will appear on the display of the instrument panel on tank for 5 seconds and the lights will remain on for 2 hours. After this period of time, they will turn off automatically.



Note

If there is a sudden interruption in the battery voltage during the "Parking" function, the instrument panel will disable this function when the voltage is restored.



Important

The frequent use of this function can considerably reduce the battery charge; it is recommended to use this function only when really necessary.

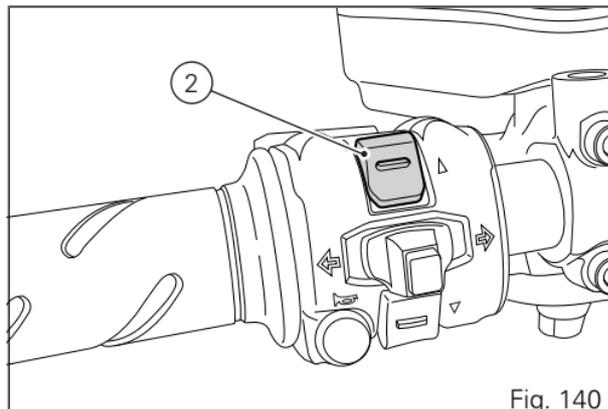


Fig. 140



Fig. 141



Warning

The exhaust system might be hot, even after engine is switched off; pay particular attention not to touch exhaust system with any body part and do not park the vehicle next to inflammable material (wood, leaves etc.).



Warning

Using padlocks or other locks designed to prevent motorcycle motion, such as brake disc locks, rear sprocket locks, and so on is dangerous and may impair motorcycle operation and affect the safety of rider and passenger.

Refuelling

Never overfill the tank when refuelling. Fuel should never be touching the rim of filler recess.

Use low-lead fuel with min. RON 95 octane rating at origin minimum. Be sure there is no fuel trapped in the filler recess.

Warning

The motorcycle is only compatible with fuel having a maximum content of ethanol of 10% (E10). Using fuel with ethanol content over 10% is forbidden. Using it could result in severe damage of the engine and motorcycle components. Using fuel with ethanol content over 10% will make the warranty null and void.

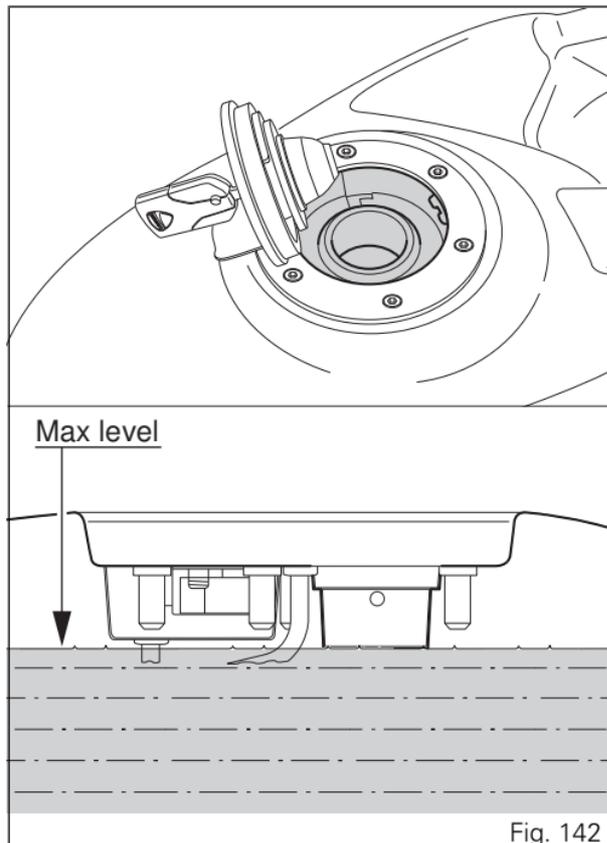


Fig. 142

Tool kit and accessories

The tool kit (2) is located under the seat (1) while the Owner's manual is housed in the compartment under the seat.

The tool kit includes:

- fuse pliers;
- two helmet anti-theft cables;
- screwdriver;
- screwdriver handle;
- 14/16 mm box wrench;
- 8/10 mm wrench;
- 6 mm rod;
- 3 mm Allen wrench;
- 4 mm Allen wrench;
- 5 mm Allen wrench.
- 6 mm Allen wrench.

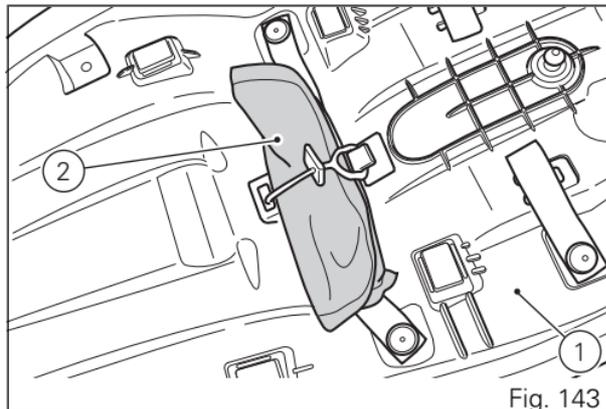


Fig. 143

To access the underseat compartment, remove the seat (see "Removal of the seat" on page page 155).

Main maintenance operations

Change the air filter



Important

Have the air filter maintenance performed at a Ducati Dealer or authorised Service Centre.

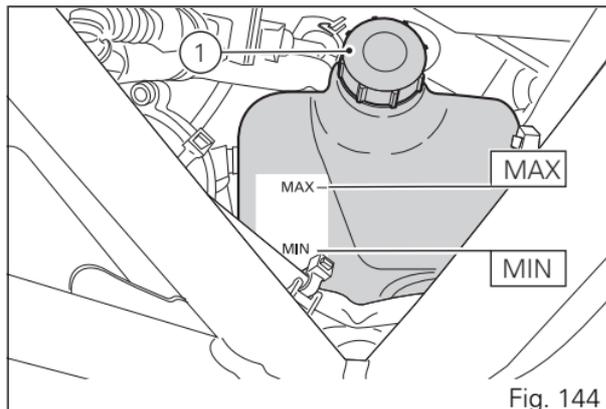
Check and top up the coolant level

Check coolant level in the expansion tank on the right side of the vehicle. Steer the handlebar completely to the left and check that the level is between the MIN and MAX marks on the side of the expansion reservoir. Top up if the level is below the MIN mark. Unscrew the filler plug (1) and add ENI Agip Permanent Spezial antifreeze, which is not to be diluted, up to MAX level.

Refit the plug (1).

This type of mixture ensures the best operating conditions (the coolant starts to freeze at $-20^{\circ}\text{C}/-4^{\circ}\text{F}$).

Cooling circuit capacity: 2.5 cu. dm (litres).



Warning

Place the motorcycle upright on a flat surface and make sure the engine is cold before proceeding.

Check brake and clutch fluid level

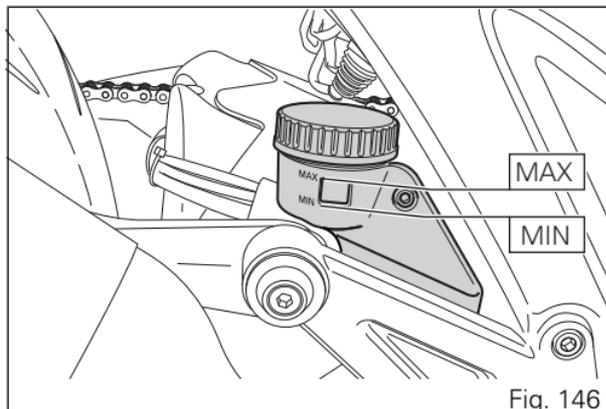
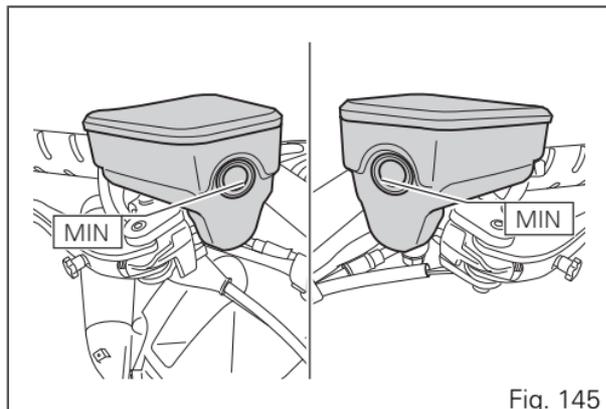
The levels should not fall below the MIN marks on the respective reservoirs.

If level drops below the limit, air might get into the circuit and affect the operation of the system involved.

Brake and clutch fluid must be topped up and changed at the intervals specified in the scheduled maintenance table reported in the Warranty Booklet; please contact a Ducati Dealer or authorised Service Centre.

Important

It is recommended all brake and clutch lines be changed every four years.



Brake system

If you find exceeding play on brake lever or pedal and brake pads are still in good condition, contact your Ducati Dealer or authorised Service Centre to have the system inspected and any air drained out of the circuit.



Warning

Brake and clutch fluid can damage paintwork and plastic parts, so avoid contact. Hydraulic oil is corrosive; it may cause damage and lead to severe injuries. Never mix fluids of different qualities. Check seals for proper sealing.



Warning

Hydraulic oil is corrosive; it may cause damage and lead to severe injuries. Never mix fluids of different qualities. Check seals for proper sealing.

Clutch system

If the control lever has exceeding play and the transmission snatches or jams as you try to engage a gear, it means that there might be air in the circuit. Contact your Ducati Dealer or authorised Service

Centre to have the system inspected and air drained out.



Warning

Clutch fluid level will increase as clutch plate friction material wears down. Do not exceed the specified level (3 mm above the minimum level).

Check brake pads for wear

Check brake pads wear through the inspection hole in the callipers.

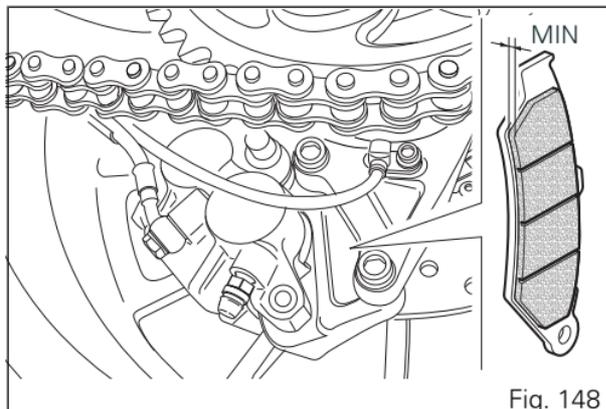
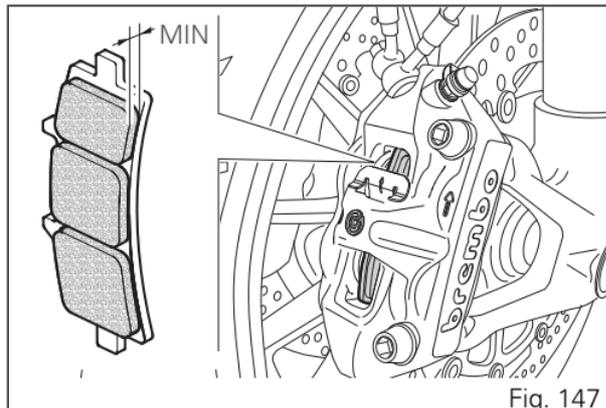
Change both pads if friction material thickness of even just one pad is about 1 mm.

Warning

Friction material wear beyond this limit would lead to metal support contact with the brake disc thus compromising braking efficiency, disc integrity and rider safety.

Important

Have the brake pads replaced at a Ducati Dealer or authorised Service Centre.

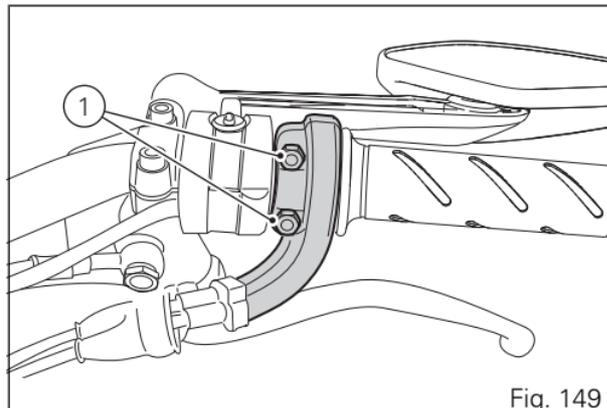


Lubricate cables and joints

Check the outer sheath of the throttle control cables for damage at regular intervals. The outer plastic cover should not be flattened or cracked.

Operate the controls to make sure the inner cables slide smoothly inside the outer sheath: if you feel any friction or catching, have the cable replaced by a Ducati Dealer or Authorised Service Centre.

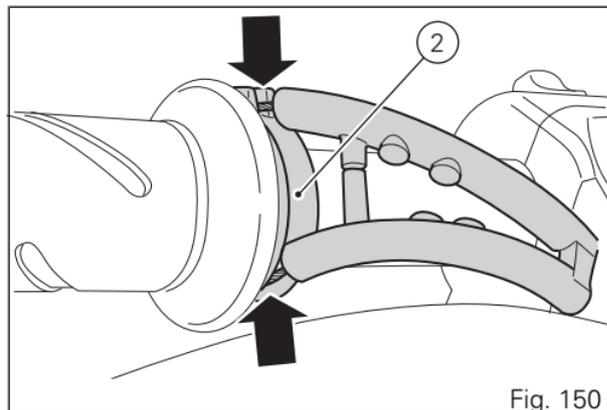
To avoid this kind of problem with the throttle cable, unscrew the two retaining screws (1) to open the case and then the grease cable ends and pulley (2) with SHELL Advance Grease or Retinax LX2 grease.



Warning

Close the twistgrip housing carefully, inserting the cable in the race.

Refit the housing and tighten the screws (1) to 10 Nm.



To ensure smooth operation of the side stand pivot, remove dirt and apply SHELL Alvania R3 grease to all friction points.

Adjust throttle control free play

In all steering positions, the throttle twistgrip should have about 1.5 to 2.0 mm of free travel, measured at the outer edge of the twistgrip housing.

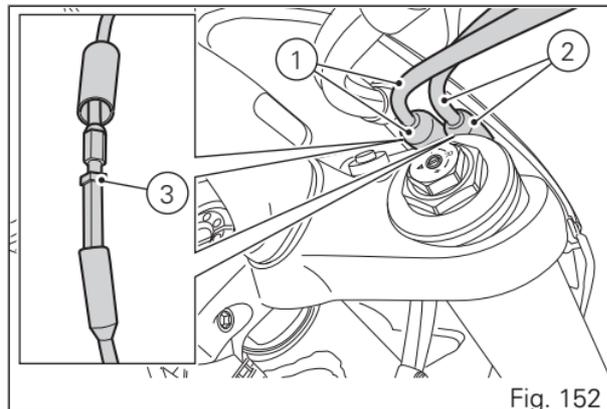
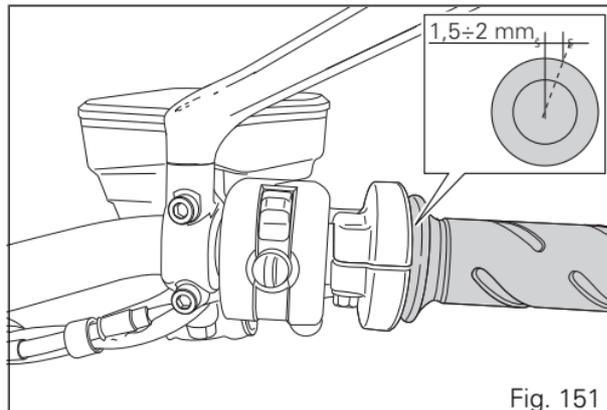
If necessary, adjust it using the adjusters (1 and 2) located on the steering tube on the right-hand side of the vehicle.

Adjuster (1) is for throttle opening, and adjuster (2) is for throttle closing.

Slip the rubber gaiters off the adjusters and loosen the counter nuts (3).

Adjust both adjusters by the same amount: turn clockwise to increase free play and anticlockwise to reduce free play.

When finished, tighten the counter nuts (3) and refit the rubber gaiters to the adjusters.



Charge the battery

Before charging the battery, it is best to remove it from the motorcycle.



Important

The battery is housed in the cowling, ALWAYS contact a Ducati Dealer or an authorised Service Centre for its removal.

Remove the left cowling (1) loosening:

- side screw (2) retaining the electrical parts box;
- top screw (3) retaining the electrical parts box;
- bottom screw (4) retaining the central cowling;

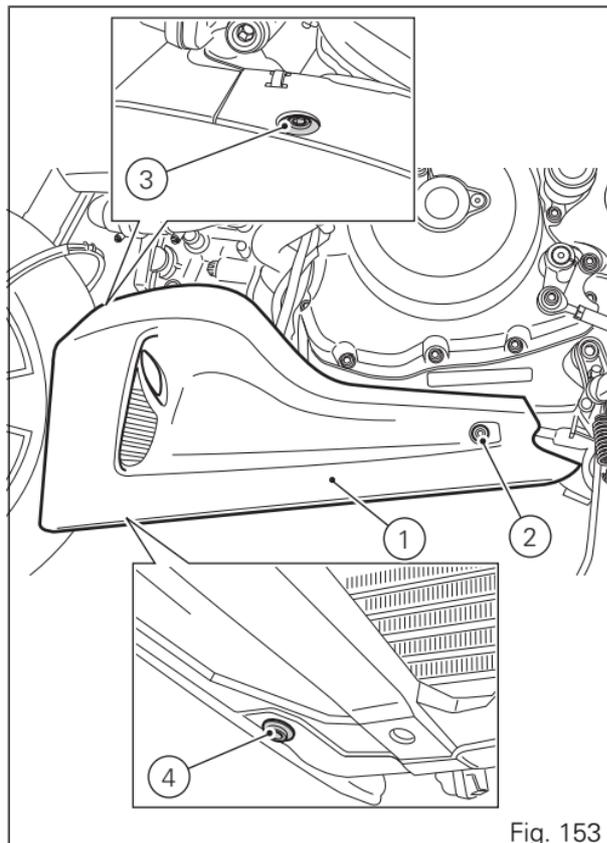
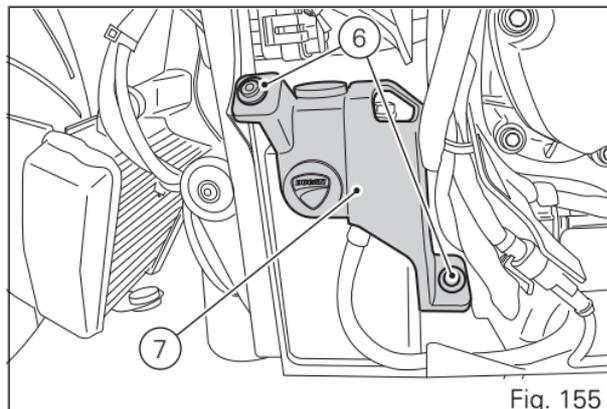
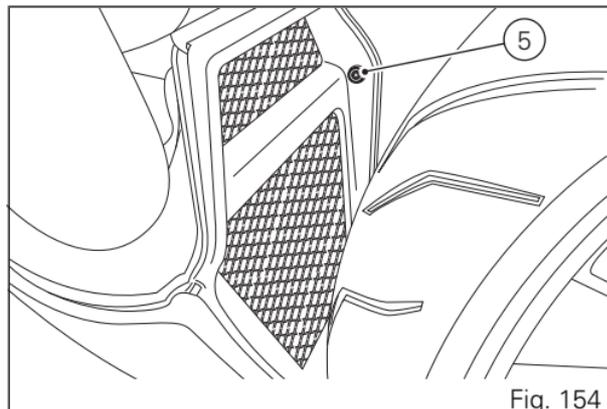


Fig. 153

- screw (5) retaining the central cowling to left cowling.
- Unscrew the screws (6) and remove the battery mounting cover (7).



Slide out the battery (8) from its housing and, always starting from the negative terminal (-), loosen the screws (9).

Remove the positive cable (10), the ABS positive cable (11) from the positive terminal and the negative cable (12) from the negative terminal.

Warning

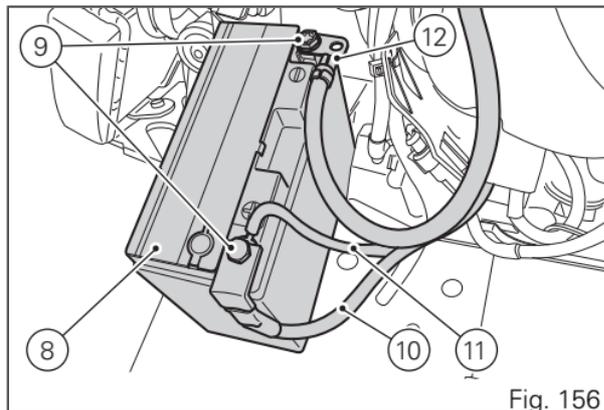
The battery produces explosive gases: keep it away from heat sources

Warning

Keep the battery out of the reach of children.

Charge the battery at 0.9 A for 5÷10 hours.

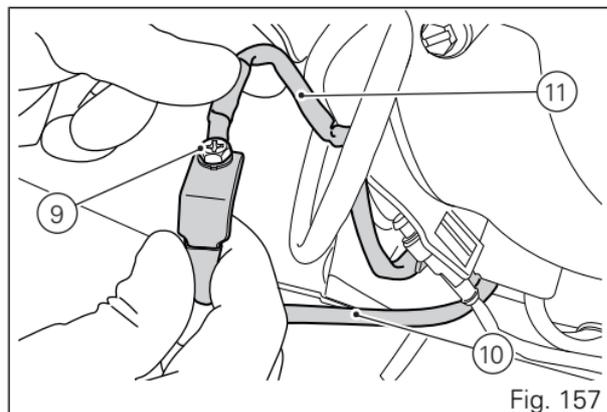
Charge the battery in a ventilated room. Connect the battery charger leads to the battery terminals: the red one to the positive terminal (+), the black one to the negative terminal (-).



Important

Make sure the charger is OFF when you connect the battery to it, or you might get sparks at the battery terminals that could ignite the gases inside the cells. Always connect the red positive (+) terminal first.

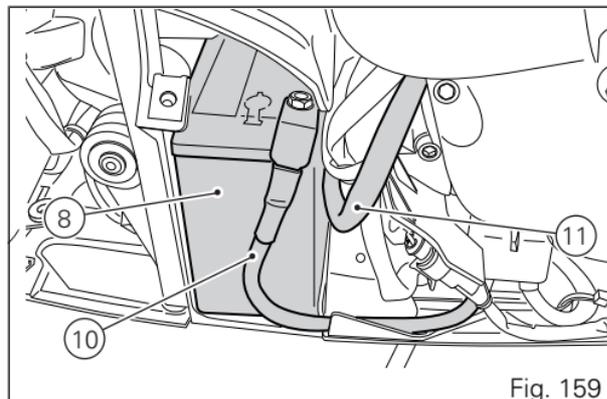
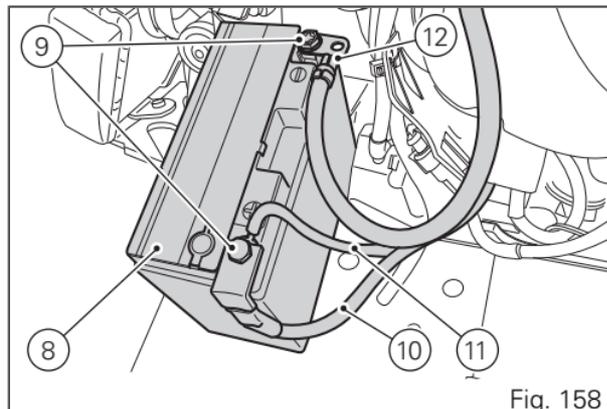
Lay down the ABS positive cable (11), onto positive cable (10) and start screw (9) on these cables.



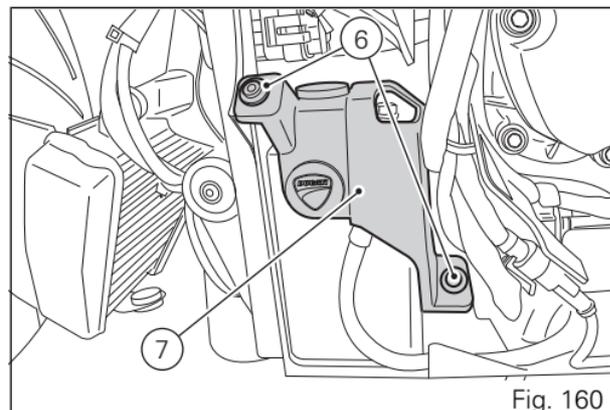
Connect the positive cable (10), previously assembled to ABS cable (11), to battery positive terminal, and negative cable (12) to battery negative terminal, by starting the other screw (9).

Tighten the terminal screws (9) to a torque of $5 \text{ Nm} \pm 10\%$ and apply grease onto the battery terminals to prevent oxidation.

Reinstall the battery (8) in the support, positioning cables (10) and (11) as shown in (Fig. 159).



Refit battery mounting cover (7) and fasten by tightening the screws (6) to a torque of $10 \text{ Nm} \pm 10\%$.



Refit the left cowling (1) as follows:

- start the side screw (2) retaining the electrical parts box in its thread;
- start the top screw (3) retaining the electrical parts box in its thread;
- start the bottom screw (4) retaining the central cowling in its thread;

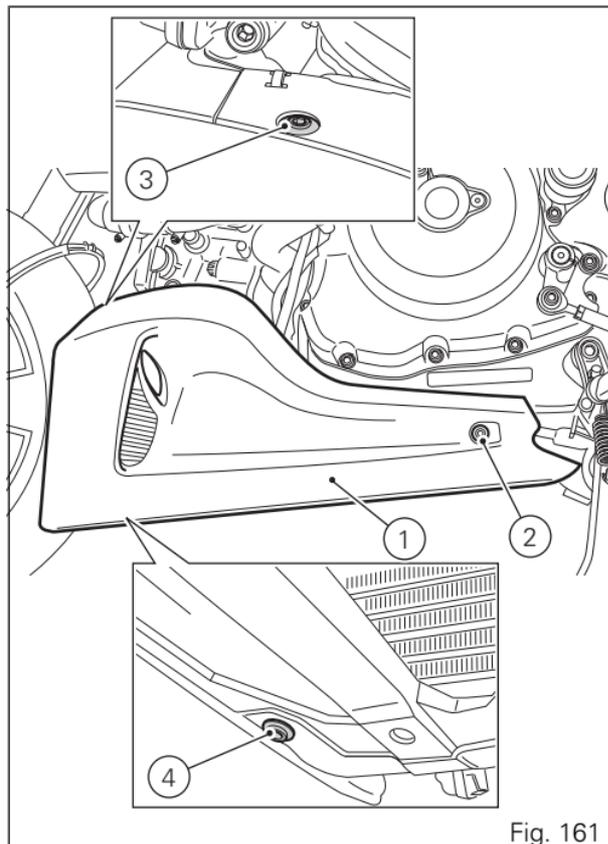
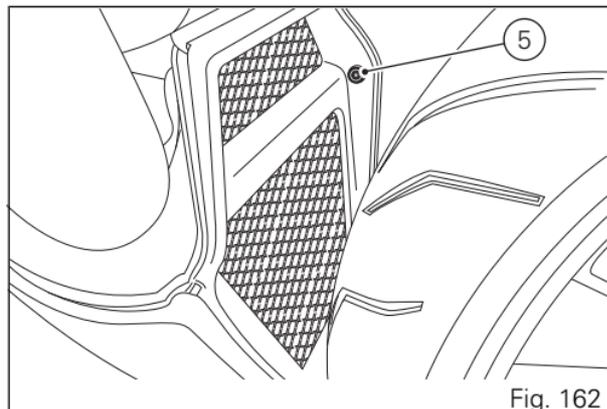


Fig. 161

- start the screw (5) retaining the central cowling to left cowling in its thread.

Tighten the screws (2, Fig. 161) , (3, Fig. 161) , (4, Fig. 161) and (5, Fig. 162) to a torque of 10 Nm \pm 10%.



Charge and maintenance of the battery during winter storage

Your motorcycle is equipped with a connector (1) to which you can connect a special battery charger (2) (Battery maintainer kit part no. 69924601A - various countries; Battery maintainer kit part no. 69924601AX - for Japan, China and Australia only) available from our sales network.



Note

The electric system of this motorcycle is designed so as to ensure there is a very low power drain when the motorcycle is off. Nevertheless, the battery features a certain self-discharge rate that is normal and depends on ambient conditions as well as on "non-use" time.

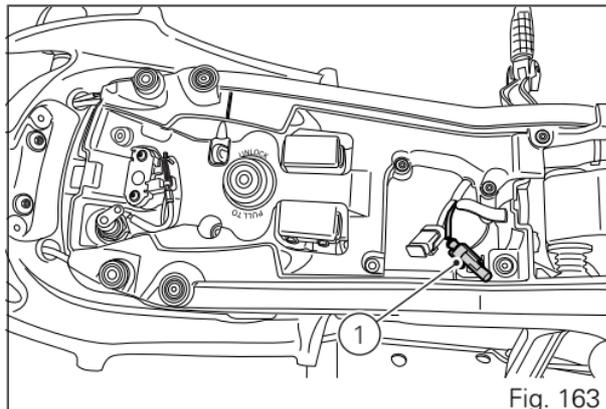


Fig. 163

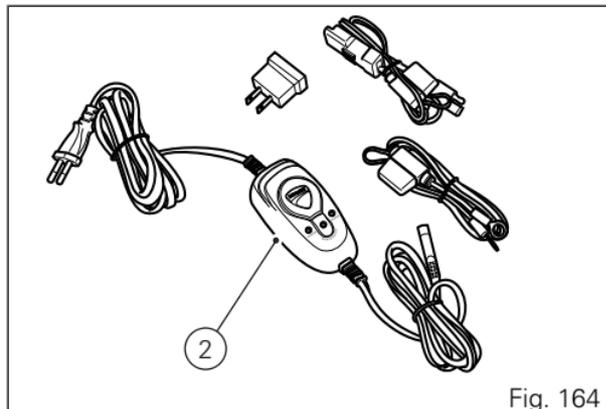


Fig. 164



Important

If battery is not kept at a minimum charge level by a suitable battery charge maintainer, sulphation may occur and this is an irreversible phenomenon causing decreasing battery performance.



Note

When the motorcycle is left unused (approximately for more than 30 days) we recommend owners to use the Ducati battery charge maintainer (Battery maintainer kit part no. 69924601A - various countries; Battery maintainer kit part no. 69924601AX - for Japan, China and Australia only); since its electronics monitors the battery voltage and features a maximum charge current of 1.5 Ah. Connect the maintainer to the diagnostics socket located in the tail of the bike.



Note

Using charge maintainers not approved by Ducati could damage the electric system; motorcycle warranty does not cover the battery if damaged due to failure to comply with the above indications, since it is considered as wrong maintenance.

Check drive chain tension



Important

Have chain tension adjusted by a Ducati Dealer or authorised Service Centre.

Make the rear wheel turn until you find the position where chain is tightest.

Set the vehicle on the side stand. Push down the chain at the point of measurement and release.

Measure the distance between the "aperture" upper profile and pin centre.

The read distance must be: $9 \div 11$ mm.



Important

If drive chain is too tight or slack, adjust tension so as to bring values back to the specified range.

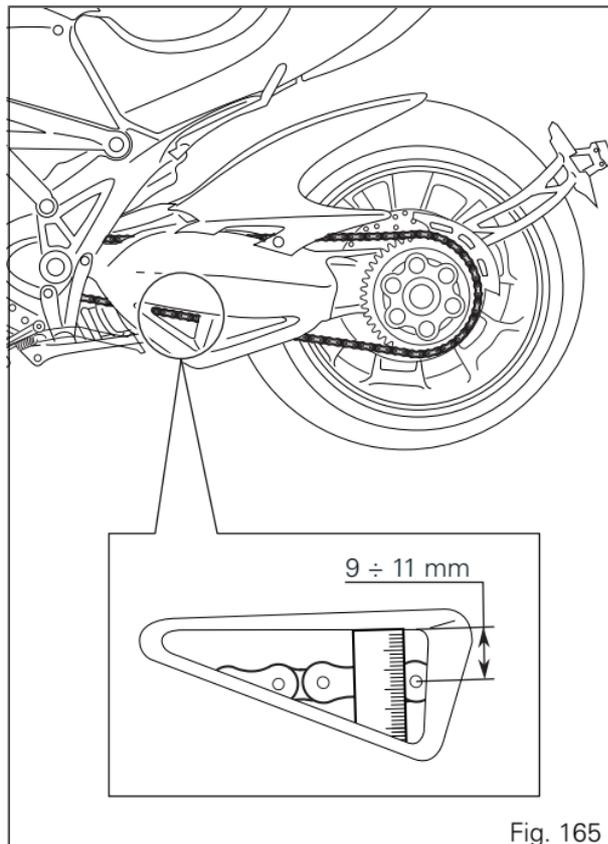


Fig. 165

Warning
Correct tightening of swinging arm screws (1) is critical to rider and passenger safety.

Important
Improper chain tension will lead to early wear of transmission parts.

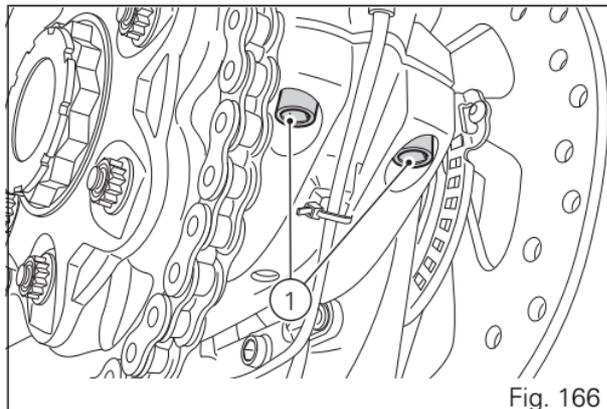


Fig. 166

Chain lubrication

The chain fitted on your motorcycle has O-rings to protect its moving parts from dirt, and to hold the lubricant inside.

The seals might be irreparably damaged if the chain is cleaned using any solvent other than those specific for O-ring chains or washed using steam or water cleaners.

After cleaning, blow the chain dry or dry it using absorbent material and apply SHELL Advance Chain or Advance Teflon Chain on each link.



Important

Using non-specific lubricants may cause severe damage to the chain and the front and rear sprocket.

Replace the high and low beam bulbs

Before replacing a burnt-out bulb, make sure that the new one matches the voltage and wattage specifications in paragraph "Electric System" page 235.

Always ensure that the new bulb you have installed operates properly before refitting any parts you have removed.

The figure shows the locations of the low beam bulbs (LO), high beam bulbs (HI) and the parking light LED light unit (1).

Headlight

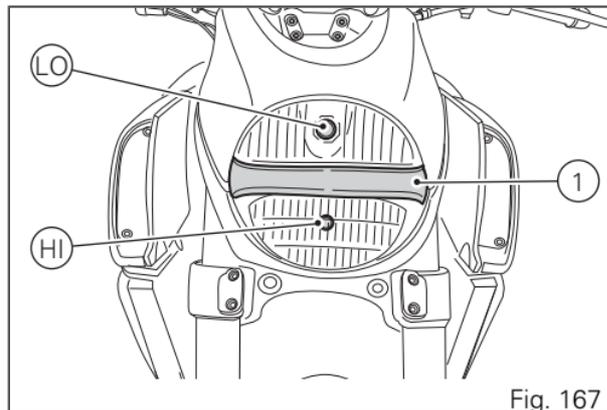


Fig. 167

Important

Have the high and low beam bulbs replaced by a Ducati Dealer or an authorised Service Centre.

Warning

The headlight might fog up if the motorcycle is used under the rain or after washing. Switch headlight on for a short time to dry up any condensate.

Beam setting

To check the headlight aim, place the motorcycle upright with the tyres inflated to the correct pressure and one person sitting astride the motorcycle. The motorcycle should be perfectly vertical, with its longitudinal axis at right angles to a wall or screen at a distance of 10 metres. Then draw a horizontal line dictated by headlamp centre and a vertical one in line with the longitudinal axis of motorcycle.

If possible, perform this check in dim light.

Switch on the low beam.

The height of the light spot (measured at the upper limit between dark and lighted-up area) should not exceed $\frac{9}{10}$ th of the height from ground of headlamp centre.

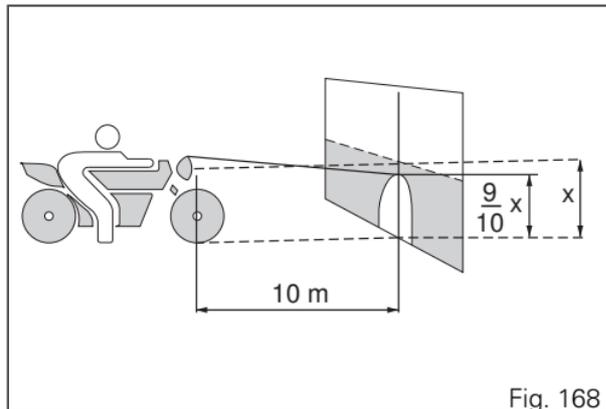


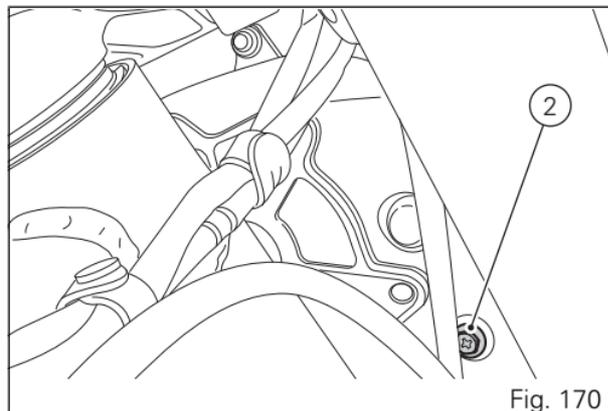
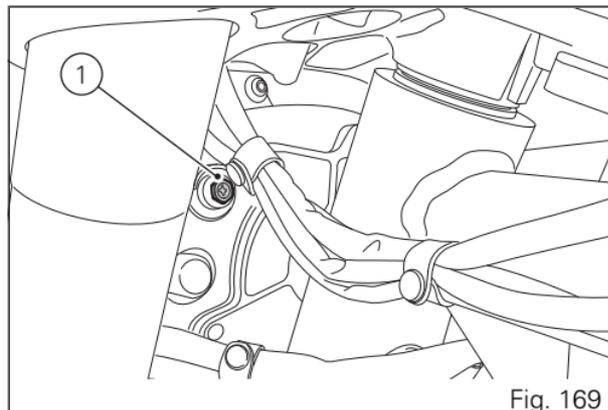
Fig. 168



Note

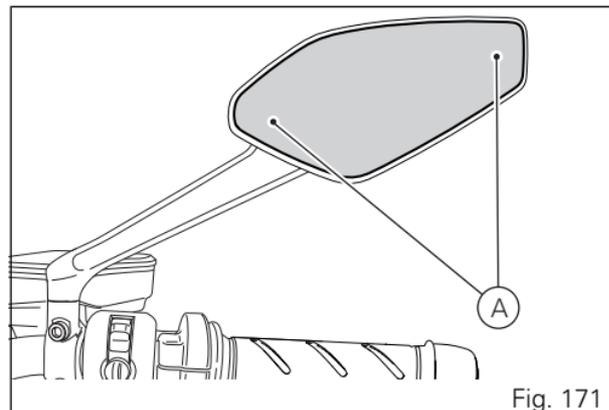
This is the procedure specified by Italian regulations for checking the maximum height of the light beam. Owners in other countries will adapt said procedure to the provisions in force in their countries.

To adjust the headlight beam vertically, turn the screws (1), for horizontal adjustment, turn the screw (2).



Adjust rear-view mirrors

The rear-view mirror can be adjusted manually by pressing points (A).



Tubeless tyres

Front tyre pressure:

2.50 bar (rider only) - 2.6 bar (with passenger and/or bags).

Rear tyre pressure:

2.50 bar (rider only) - 2.6 bar (with passenger and/or bags).

As tyre pressures are affected by changes in temperature and altitude; check and adjust them whenever you are riding in areas where there are large variations in temperature or altitude.

Important

Check and adjust the pressures with the tyres cold. To avoid front wheel box distortion, when riding on bumpy roads, increase tyre pressure by 0.2 ÷ 0.3 bar.

Tyre repair or change (Tubeless tyres)

In the event of a tiny puncture, tubeless tyres will take a long time to deflate, as they tend to keep air inside. If you find low pressure on one tyre, check the tyre for punctures.

Warning

Punctured tyres must be replaced. Replace tyres with recommended standard tyres only. Be sure to tighten the valve caps securely to avoid leaks when riding. Never use tube type tyres. Failure to heed this warning may lead to sudden tyre bursting and to serious danger to rider and passenger.

After replacing a tyre, the wheel must be balanced.

Warning

Do not remove or shift the wheel balancing weights.

Note

Have the tyres replaced at a Ducati Dealer or authorised Service Centre. Correct removal and installation of the wheels is essential. Some parts of the ABS (such as sensors and phonic wheels) are mounted to the wheels and require specific adjustment.

Minimum tread depth

Measure tread depth (S, Fig. 172) at the point where tread is most worn down: it should not be less than 2 mm, and in any case not less than the legal limit.



Important

Visually inspect the tyres at regular intervals for detecting cracks and cuts, especially on the side walls, bulges or large spots that are indicative of internal damage. Replace them if badly damaged. Remove any stones or other foreign bodies caught in the tread.

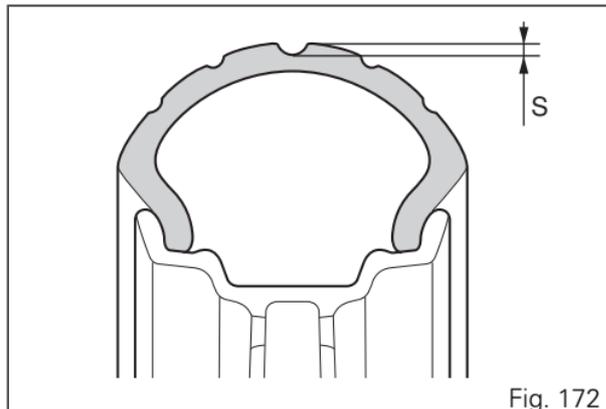


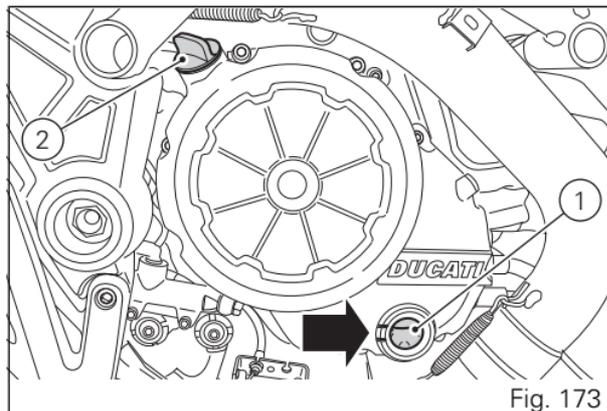
Fig. 172

Check engine oil level

Check the engine oil level through the sight glass (1) on the clutch cover. Oil level must be checked with the motorcycle perfectly upright and the engine cold. Oil level should be between the marks on the sight glass. If the level is low, top up with SHELL Advance 4T Ultra engine oil. Remove the oil filler cap (2) and top up until the oil reaches the required level. Refit the plug.

Important

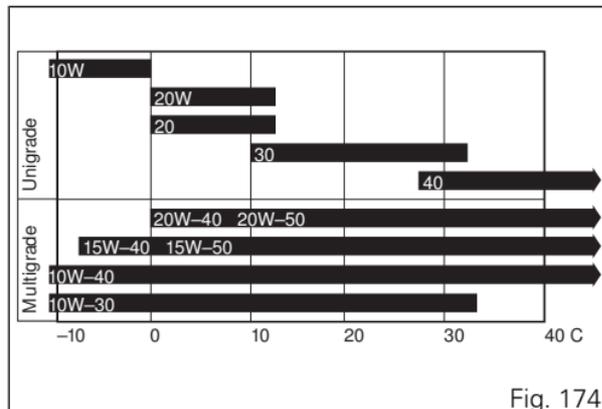
Engine oil and oil filters must be changed by a Ducati Dealer or authorised Service Centre at the intervals specified in the scheduled maintenance chart reported in the Warranty Card.



Viscosity

SAE 15W-50

The other viscosity degrees indicated in the table can be used if the local average temperature is within the limits specified for that oil viscosity.

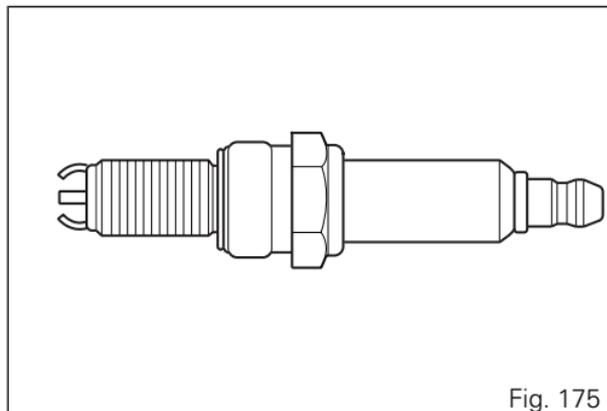


Clean and replace the spark plugs

Spark plugs are essential to smooth engine running and should be checked at regular intervals.

The condition of the spark plugs provides a good indication of how well the engine is running.

Have the spark plug checked and replaced at a Ducati Dealer or authorised Service Centre.



Clean the motorcycle



Note

To preserve the finish of metal parts and paintwork, wash and clean your motorcycle at regular intervals, anyway according to the road conditions you ride in. Use specific products only. Prefer biodegradable products. Avoid aggressive detergents or solvents.

Only use water and neutral soap to clean the Plexiglas and the seat.

Periodically manually clean all aluminium components. Use special detergents, suitable for aluminium parts FREE of abrasives or caustic soda.



Note

Do not use sponges with abrasive parts or steel wool: only use soft cloths.

However, the warranty does not apply to motorcycles whenever poor maintenance status is ascertained.



Important

Do not wash your motorcycle immediately after use, as marks can form due to evaporation of the water on hot surfaces.

Never clean the motorcycle using hot or high-pressure water jets.

Cleaning the motorcycle with a high pressure water jet may lead to seizure or serious faults in the front fork, wheel hub assembly, electric system, headlight (fogging), front fork seals, air inlets or exhaust silencers, with consequent loss of safety.

If parts of the engine are unusually dirty or greasy, use a degreasing agent, avoiding contact with transmission components (chain, front and rear sprockets, etc.).

Rinse with warm water and dry all surfaces with chamois leather.



Warning

Braking performance may be impaired immediately after washing the motorcycle. Never grease or lubricate the brake discs as this would cause loss of braking effectiveness. Clean the discs with an oil-free solvent.



Warning

The headlight might fog up due to washing, rain or moisture. Switch headlight on for a short time to dry up any condensate.

Carefully clean the phonic wheels of the ABS so to ensure system efficiency. Do not use aggressive products so to avoid damaging the phonic wheels and the sensors.



Note

Do not use alcohol or alcohol-derived products to clean the instrument panel.

Pay special attention to regularly clean the wheel rims since they feature some machined aluminium parts; clean and dry them any time you use the motorcycle.



Warning

To clean side panniers, use warm water, neutral soap and a soft cloth. Soap and a soft brush may be used to clean zips; rinse with clean water. Do not use aggressive detergents and hard cleaning utensils. Zips that are hard to open may be loosened with a small quantity of talcum powder.

Storing the motorcycle

If the motorcycle is to be left unriden over long periods, it is advisable to carry out the following operations before storing it away:

- clean the motorcycle;
- empty the fuel tank;
- pour a few drops of engine oil into the cylinders through the spark plug bores, then turn the engine over by hand a few times to form a protective film of oil on the inner walls of the cylinder;
- place the motorcycle on a service stand;
- disconnect and remove the battery.

If the motorcycle has been left unused for more than a month, the battery should be checked and recharged if necessary.

Protect the motorcycle with a specific motorcycle cover that will not damage the paintwork or retain moisture.

The canvas is available from Ducati Performance.

Important notes

Some countries, such as France, Germany, Great Britain, Switzerland, etc. have compulsory emission

and noise standards that include mandatory inspections at regular intervals.

Periodically carry out the required checks and replace parts as necessary, using Ducati original spare parts, in compliance with the regulations in the country concerned.

Scheduled maintenance chart

Scheduled maintenance chart: operations to be performed by the Dealer

List of operations and type of intervention [set mileage (km/mi) or time interval *]	Km. x1000	1	12	24	36	48	Time (months)
	mi. x1000	0.6	7.5	15	22.5	30	
Reading of the error memory with DDS and check of Software version update on control units.		•	•	•	•	•	12
Check the presence of any technical updates and recall campaigns		•	•	•	•	•	12
Change engine oil and filter		•	•	•	•	•	12
Clean the engine oil intake filter		•					-
Check and/or adjust valve clearance				•		•	-
Change timing belts				•		•	60
Change spark plugs				•		•	-
Change the air filter				•		•	-
Check brake and clutch fluid level		•	•	•	•	•	12
Change brake and clutch fluid							36
Check pad wear and brake discs. Change, if necessary		•	•	•	•	•	12

List of operations and type of intervention [set mileage (km/mi) or time interval *]	Km. x1000	1	12	24	36	48	Time (months)
	mi. x1000	0.6	7.5	15	22.5	30	
Check tightening of the safety components (brake disc flange screws, brake calliper screws, front/rear wheel nuts, sprocket and final drive sprocket nuts)		●	●	●	●	●	12
Check and lubricate the rear wheel shaft				●		●	-
Check the drive chain tension and lubrication		●	●	●	●	●	12
Check final drive wear (chain, front and rear sprockets) and chain sliding shoes			●	●	●	●	12
Visual check of front fork and rear shock absorber seals		●	●	●	●	●	12
Change front fork fluid					●		-
Check the freedom of movement and tightening of side and central stand (if installed)		●	●	●	●	●	12
Check rubbing points, clearance, freedom of movement and positioning of hoses and electric wiring in view		●	●	●	●	●	12
Checking the coolant level		●	●	●	●	●	12
Change coolant						●	48
Check electric fan operation		●	●	●	●	●	12
Check tyre pressure and wear		●	●	●	●	●	12
Check the battery charge level		●	●	●	●	●	12

List of operations and type of intervention [set mileage (km/mi) or time interval *]	Km. x1000	1	12	24	36	48	Time (months)
	mi. x1000	0.6	7.5	15	22.5	30	
Check idling		●	●	●	●	●	12
Check the operation of the safety electrical devices (side stand sensor, front and rear brake switches, engine stop switch, gear/neutral sensor)		●	●	●	●	●	12
Check the indicators and lighting		●	●	●	●	●	12
Reset Service indication through DDS		●	●	●	●	●	-
Road test of the motorcycle, testing the safety devices (ex. ABS and DTC)		●	●	●	●	●	12
Softly clean the motorcycle		●	●	●	●	●	12
Fill out that the service was performed in on-board documentation (Service Booklet)		●	●	●	●	●	12

Scheduled maintenance chart: operations to be performed by the customer

List of operations and type of intervention [set mileage (km/mi) or time interval *]	Km. x1000	1
	mi. x1000	0.6
	Months	6
Check engine oil level		●
Check brake and clutch fluid level		●
Check tyre pressure and wear		●
Check the drive chain tension and lubrication		●
Check brake pads. If necessary, contact your dealer to change pads		●

Technical data

Weights

In ordine di marcia senza liquidi e batteria:

216 kg.

Carrying full load: 400 kg.



Warning

Failure to observe weight limits could result in poor handling and impair the performance of your motorcycle, and you may lose control of the motorcycle.

Overall dimensions

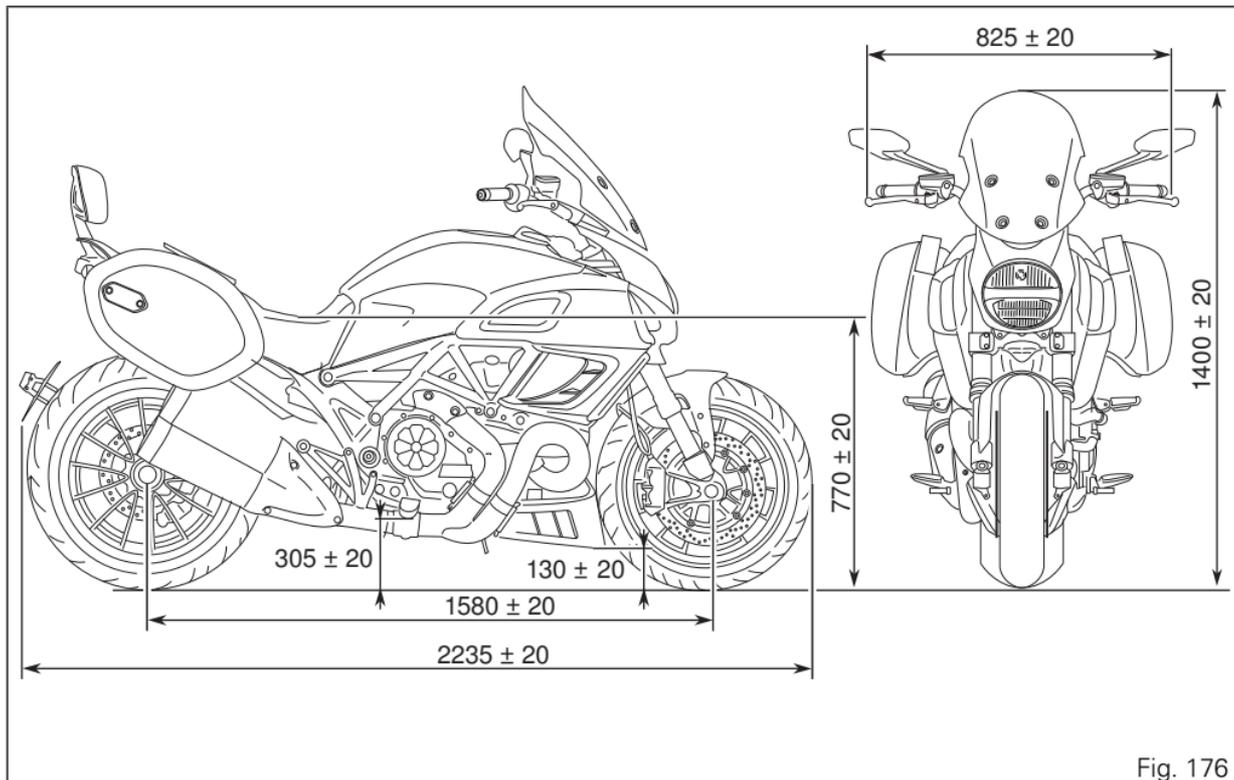


Fig. 176

Top-ups

TOP-UPS	TYPE	
Fuel tank, including a reserve of 4 cu. dm (litres)	Unleaded fuel with a minimum octane rating of RON 95.	17 cu. dm (litres)
Sump and filter	SHELL - Advance 4T Ultra	4 cu. dm (litres)
Front/rear brake and clutch circuits	SHELL Advance Brake DOT 4	-
Protectant for electric contacts	Spray for electric systems SHELL Advance Contact Cleaner	-
Front fork	SHELL Advance Fork 7.5 or Donax TA	720 cc (per leg)
Cooling circuit	ENI Agip Permanent Spezial antifreeze (do not dilute, use pure)	2.5 cu. dm (litres)



Important

Do not use any additives in fuel or lubricants. Using them could result in severe damage of the engine and motorcycle components.



Warning

The motorcycle is only compatible with fuel having a maximum content of ethanol of 10% (E10). Using fuel with ethanol content over 10% is forbidden. Using it could result in severe damage of the engine and motorcycle components. Using fuel with ethanol content over 10% will make the warranty null and void.

Engine

Testastretta 11°, "L" twin cylinder, liquid-cooled engine; timing system with 4 valves per cylinder.

Bore, mm:

106

Stroke, mm:

67.9

Total displacement, cu. cm:

1198.4

Compression ratio:

11.5±0.5:1

Max. crankshaft power (95/1/EC), kW/HP:

119 kW/162 HP at 9,500 rpm

Max torque at crankshaft (95/1/EC):

13 kgm/128 Nm at 8,000 rpm

Maximum rpm:

10,800



Important

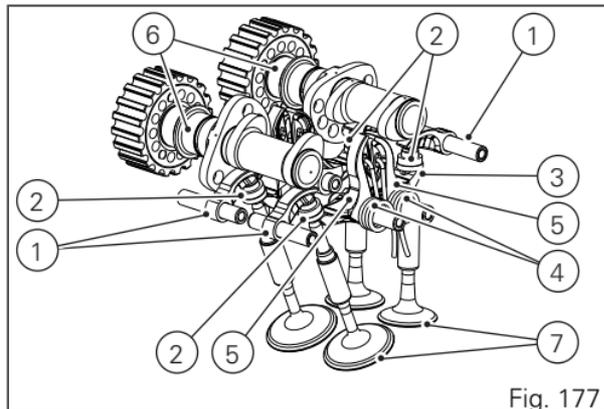
Do not exceed the specified rpm limits in any running conditions.

Timing system

DESMODROMIC with four valves per cylinder, operated by eight rocker arms (four opening rockers and four closing rockers) and two overhead camshafts. It is operated by the crankshaft through spur gears, belt rollers and toothed belts.

Desmodromic timing system

- 1) Opening (or upper) rocker;
- 2) Opening rocker shim;
- 3) Closing (or lower) rocker shim;
- 4) Return spring for lower rocker;
- 5) Closing (or lower) rocker;
- 6) Camshaft;
- 7) Valve.



Performance data

Maximum speed in any gear should be reached only after a correct running-in period with the motorcycle properly serviced at the recommended intervals.



Important

Failure to follow these instructions will release Ducati Motor Holding S.p.A. from any liability for any engine damage or shortened engine life.

Spark plugs

Make: NGK

Type: MAR9A-J

Fuel system

MITSUBISHI indirect electronic injection. Oval throttle body (corresponding diameter):

56 mm

Injectors per cylinder: 1

Firing points per injector: 12

Fuel specifications: 95-98 RON.



Warning

The motorcycle is only compatible with fuel having a maximum content of ethanol of 10% (E10). Using fuel with ethanol content over 10% is forbidden. Using it could result in severe damage of the engine and motorcycle components. Using fuel with ethanol content over 10% will make the warranty null and void.

Brakes

Sistema antibloccaggio dei freni con azione separata, controllato da sensori ad effetto hall con lettura su ruote foniche montati su entrambe le ruote: possibilità di disattivazione ABS.

Front

Semi-floating drilled twin-disc.

Braking material: steel.

Carrier material: aluminium

Disc diameter: 320 mm.

Hydraulically operated by a control lever on handlebar right-hand side.

Brake calliper make: BREMBO.

Tipo: M4.34a (pinza a 4 pistoni Ø 34)

Materiale attrito: TT 2182 FF

Master cylinder type: PR18/19.

Rear

With fixed drilled steel disc.

Disc diameter: 265 mm.

Hydraulically operated by a pedal on RH side.

Make: BREMBO

Tipo: PF 30/32a (pinza flottante a 2 pistoni Ø 30 / Ø 32).

Materiale attrito: Toshiba TT2182 FF.

Tipo pompa: PS 13.



Warning

The brake fluid used in the brake system is corrosive.

In the event of accidental contact with eyes or skin, wash the affected area with abundant running water.

Transmission

Wet clutch controlled by the lever on left-hand side of the handlebar.

Drive is transmitted from engine to gearbox main shaft via spur gears.

Engine sprocket/clutch gearwheel ratio: 33/61

6-speed gearbox with constant mesh gears, gear change pedal on left side of motorcycle.

Gearbox output sprocket/rear chain sprocket ratio: 15/43

Total gear ratios:

1st gear 15/37

2nd gear 17/30

3rd gear 20/27

4th gear 22/24

5th gear 24/23

6th gear 25/22

Drive chain from gearbox to rear wheel:

Make: DID

Type: HV2 525

Size: 5/8" x 1/16"

Links: 118



Important

The above gear ratios are the homologated ones and under no circumstances must they be modified.

However, if you wish to tune up your motorcycle for competitions or special tracks, Ducati Motor Holding S.p.A. will be pleased to provide information about the special ratios available. Contact a Ducati Dealer or Authorised Service Centre.



Warning

If the rear sprocket needs replacing, contact a Ducati Dealer or authorised Service Centre. If improperly replaced, this component could seriously endanger your safety, as well as the passenger one, and cause irreparable damage to your motorcycle.

Frame

ALS450 steel tube trellis frame.

Telaioetto posteriore fuso in alluminio.

Inclinazione canotto: 28°.

Angolo di sterzo: 34° lato sinistro / 34° lato destro.

Avancorsa: 130 mm

Wheels

Fourteen-spoke, light-alloy rims.

Front

Size: MT 3.50x17".

Rear

Size: MT 8.00x17".

Tyres

Cerchi in lega leggera a quattordici razze.

Front

Radiale tipo "tubeless".

Size: 120/70-ZR17

Rear

Radiale tipo "tubeless".

Size: 240/45-ZR17

Suspensions

Front

Hydraulic upside-down fork with external adjustment of rebound and compression damping and of fork leg inner spring preload.

Diametro tubi portanti: 50 mm.

Wheel travel: 120 mm.

Rear

The shock absorber is adjustable for rebound and compression, with remote control for spring preload and is adjustable. Its upper section is pivot connected to the frame and the lower section is pivot connected to a light alloy swingarm. The swinging arm rotates around a pivot shaft that passes through frame and engine.

The whole system gives the bike excellent stability.

Shock absorber stroke: 59.5 mm.

Wheel travel: 120 mm.

Exhaust system

Silenziatore in acciaio inossidabile con terminali a fondello in alluminio.

Catalizzatore integrato e con due sonde lambda.

Available colours

Race Titanium

Chrome Grey part no. 928.F891 (PALINAL).

2K black primer part no. 873.A002 (PALINAL).

2K clear lacquer part no. 923I1831 (PALINAL).

Racing Black frame black wheel rims.

Electrical system

Basic electric items are:

Headlight:

lampada anabbagliante tipo: 1xH7 blue vision (12V-55W);

high beam bulb type: 1xH1 (12V-55W);

luce di posizione: A LED (12V-2,4W).

Electrical controls on handlebars.

Indicatori direzione: anteriori: A LED (13,5V-2,9W).

Horn.

Stop light switches.

Sealed battery, 12V-10 A.

GENERATOR 12V-430W.

FUSIBILE MASTER, protetto con fusibile da 30A
posto sul teleruttore avviamento, dietro alla batteria
(C, Fig. 180).

Starter motor: 12V-0.7 kW.

Fanale posteriore, segnalazione arresto e indicatori
posteriori:

posizione: (13,5V-0,6W);

stop: A LED (13,5V-2,8W);

indicatori posteriori: A LED (13,5V-2,06W).

Illuminazione targa: A LED (13,5V-0,67W).



Note

For bulb replacement instructions, please read
"Replacing the high and low beam bulbs".

Fuses

There are twelve fuses that protect the electric components located inside the front and rear fuse boxes, and one on the electric solenoid starter. There is a spare fuse in every box.

Refer to the table below to identify the circuits protected by the various fuses and their ratings.

La scatola porta fusibili posteriore sinistra (A, Fig. 178) e quella posteriore destra (B, Fig. 179) sono posizionati sotto la sella, nel vano sotto sella. Per accedere ai fusibili rimuovere la sella (vedi "Smontaggio sella" a page 155).

To expose the fuses, lift the box protective cover. Mounting position and ampere capacity are marked on box cover.

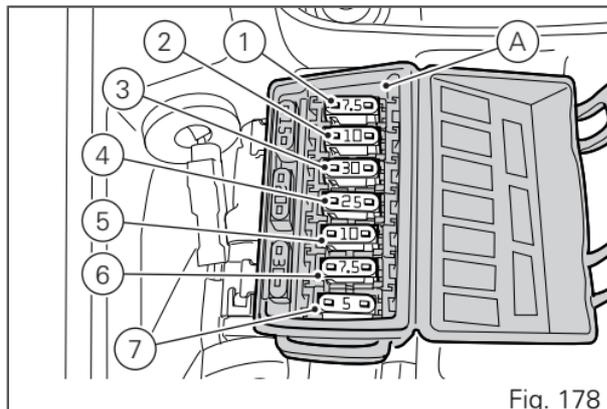


Fig. 178

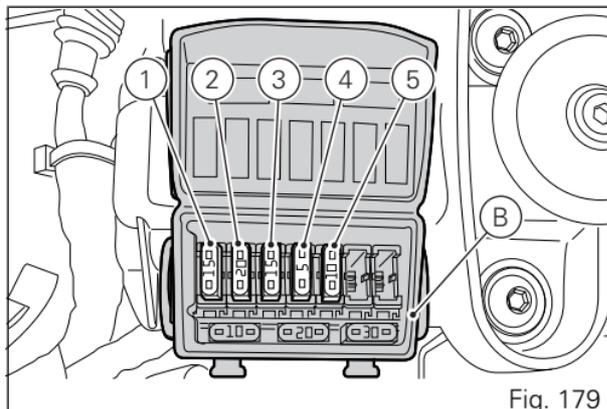


Fig. 179

Legenda scatola fusibili posteriore sinistra (A)		
Pos	El. item	Rat.
1	Diagnosis	7.5 A
2	Ventole	10 A
3	Fusibile ABS 1	30 A
4	Fusibile ABS 2	25 A
5	Navigatore/Prese di corrente/Allarme	10 A
6	Fusibile ABS	7.5 A
7	Manopole riscaldate	5 A

Legenda scatola fusibili posteriore destra (B)		
Pos	El. item	Rat.
1	Relè apertura farfalla	15 A
2	Iniezione	20 A
3	Key sense	15 A
4	Centralina	5 A
5	Instrument panel	10 A



Note

Per accedere al fusibile principale rimuovere il puntale sinistro.

Il fusibile principale (C) è posizionato vicino alla batteria, sul teleruttore avviamento (D). Remove the fuse cap (E) to reach it.

A blown fuse is identified by the interrupted centre link (F).

Important

Switch the ignition key to OFF before replacing the fuse to avoid possible short-circuits.

Warning

Non usare mai un fusibile con prestazioni diverse da quelle stabilite. Failure to observe this rule may damage the electric system or even cause fire.

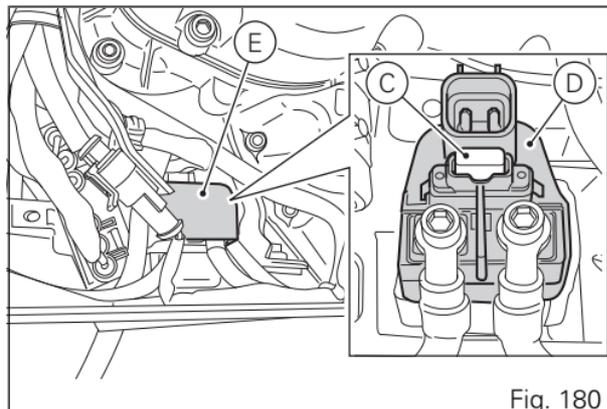


Fig. 180

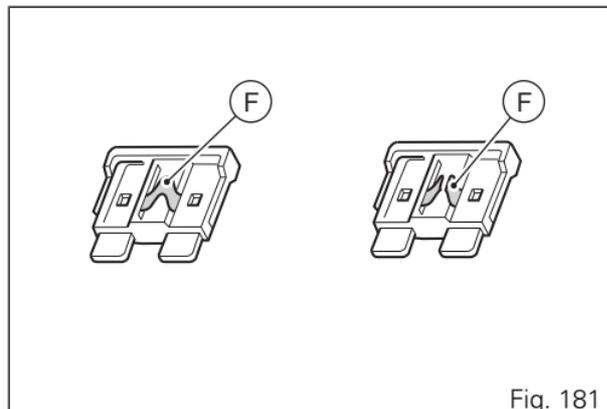


Fig. 181

Injection /electric system diagram key

- 1) Right-hand switch
- 2) Immobilizer
- 3) Hands Free relay
- 4) Hands free
- 5) Scatola fusibili destra
- 6) Right fan
- 7) Left fan
- 8) Relè ventole
- 9) Fuel pump relay
- 10) Ride-by-wire relay (ETV)
- 11) Injection control unit (EMS)
- 12) Scatola fusibili sinistra
- 13) Data Acquisition/Diagnosis
- 14) Starter motor
- 15) Fused solenoid
- 16) Battery
- 17) Wiring ground
- 18) Regulator
- 19) Generator
- 20) Fuel pump
- 21) Fuel level
- 22) Rear right turn indicator
- 23) Rear light
- 24) Rear left turn indicator
- 25) Vehicle control unit (BBS)
- 26) Antitheft alarm
- 27) Exhaust valve starter motor
- 28) Gear sensor
- 29) Rear speed sensor
- 30) ABS control unit
- 31) Throttle twistgrip position sensor (APS)
- 32) Motorino potenziometro / rideby- wire (TPS/ETV)
- 33) Timing/rpm sensor
- 34) Vertical MAP sensor
- 35) Horizontal MAP sensor
- 36) Engine temperature
- 37) Air temperature sensor
- 38) Vertical lambda sensor
- 39) Horizontal lambda sensor
- 40) Oil pressure switch
- 41) Rear stop
- 42) Side stand switch
- 43) Clutch switch
- 44) Front stop
- 45) Main vertical injector
- 46) Main horizontal injector
- 47) Horizontal coil
- 48) Vertical coil
- 49) Left-hand switch

- 50) Horn
- 51) Front speed sensor
- 52) Front left turn indicator
- 53) Cruscotto su manubrio
- 54) Cruscotto serbatoio
- 55) Front right turn indicator
- 56) Navigator
- 57) Luce abbagliante / anabbagliante
- 58) Parking light
- 59) Presa di corrente posteriore
- 60) Centralina manopole riscaldate
- 61) Manopole riscaldate
- 62) Presa di corrente anteriore

O Orange

P Pink



Note

The electric system wiring diagram is at the end of this manual.

Wire colour coding

B Blue

W White

V Violet

BK Nero

Y Yellow

R Red

LB Azzurro

GR Grigio

G Green

BN Marrone

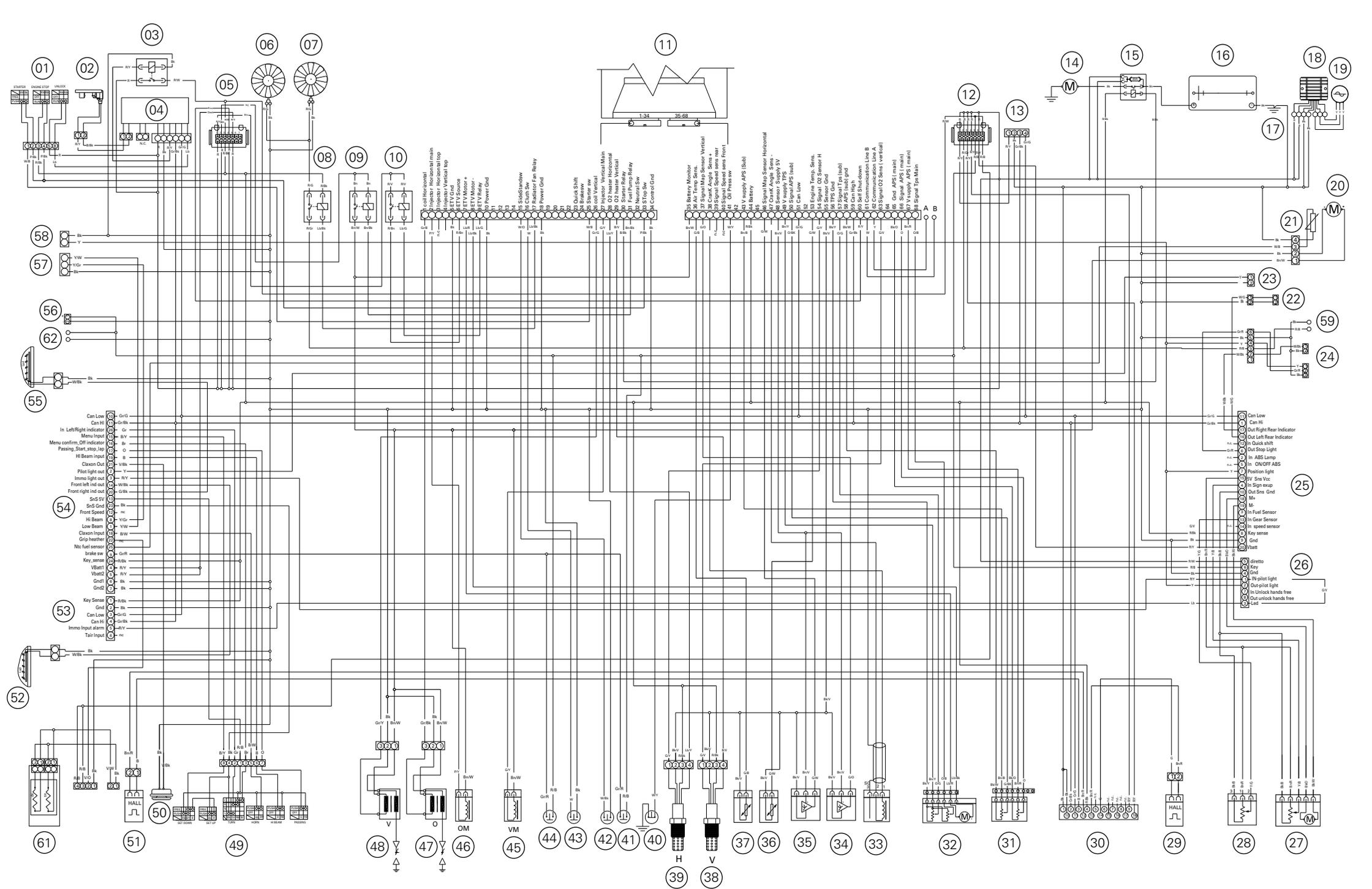
Routine maintenance record

Routine maintenance record

KM	NAME	MILEAGE	DATE
	DUCATI SERVICE		
1000			
15000			
30000			
45000			
60000			

Stampato 09/2013

Cod. 913.7.234.1A



DIAVEL STRADA

cod. 913.7234.1A

Ducati Motor Holding spa
www.ducati.com

Via Cavalieri Ducati, 3
40132 Bologna, Italia
Tel. +39 051 6413111
Fax +39 051 406580

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