

Owner's manual

E

DUCATI *SPORT TOURING* 

Hearty welcome among Ducati fans! Please accept our best compliments for choosing a Ducati 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. We are steadily doing our best to improve our "Technical Assistance" service. For this reason, we recommend you to strictly follow the indications given in this manual, especially for motorcycle running-in. In this way, your Ducati motorbike will surely give you unforgettable emotions. For any servicing or suggestions you might need, please contact our authorized service centers.

Enjoy your ride!

Ducati Motor Holding S.p.A. declines any liability whatsoever for any mistakes incurred in drawing up this manual. The information contained herein is valid at the time of going to print. Ducati Motor Holding S.p.A. reserves the right to make any changes required by the future development of the above-mentioned products.

E

For your safety, as well as to preserve the warranty, reliability and worth of your motorcycle, use original Ducati spare parts only.



Warning

This manual forms an integral part of the motorcycle and - if the motorcycle is resold - must always be handed over to the new owner.

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GENERAL



Warranty

In your own interest, and in order to guarantee product reliability, you are strongly advised to refer to our authorized Dealers and workshops for any servicing requiring particular technical expertise. Our highly skilled staff have access to the implements 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". However, warranty does not apply to the motorcycles used in competitions or competitive trials. No motorcycle part may be tampered with, altered, or replaced with parts other than original Ducati spare parts during the warranty period, or the warranty right will be automatically invalidated.

Symbols

Ducati Motor Holding S.p.A. advises you to read this booklet carefully so as to become familiar with your motorcycle. In case of any doubts, please call a Ducati dealer or authorized workshop. The information contained herein will prove useful on your trips - and Ducati Motor Holding S.p.A. wishes you smooth, enjoyable riding - and will help you keep the performance of your motorcycle unchanged for a long time. The text is supplemented with schematic illustrations for quick reference and better understanding of the subjects concerned.

This manual contains some special remarks:



Warning

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



Important

Possibility of damaging the motorcycle and/or its components.



Note

Additional information concerning the job being carried out.

The terms **right** and **left** are referred to the motorcycle viewed from the riding position.

Useful information for safe riding



Warning

Read this section before riding your motorcycle.

Accidents are frequently due to inexperience. Always make sure you have your licence with you when riding; you need a valid licence to be entitled to ride your motorcycle.

Do not lend your motorcycle to inexperienced riders or who do not hold a valid licence.

Both rider and pillion passenger must **always** wear a safety helmet.

Wear proper clothing, with no loose items or accessories that may become tangled in the controls or limit your zone of vision.

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.

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

Always hold the handlebars firmly with both hands so you will be ready for sudden changes of direction or in the road surface. The pillion passenger should **always** hold on to the suitable strap at the rear of the seat with both hands.

Ride within the law and observe national and local rules.

Always respect speed limits where these are posted.

However, **always** adjust your speed to the visibility, road and traffic conditions you are riding in.

Always signal your intention to turn or pull to the next

lane in good time using the suitable turn indicators.

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

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.

Always turn off the engine when refueling.

Be extremely careful not to spill gasoline on the engine or on the exhaust pipe when refueling.

Do not smoke when refueling.

While refueling, you may inhale noxious gasoline vapors.

Should any gasoline drops be spilled on your skin or clothing, immediately wash with soap and water and change your clothing.

Always remove the key when you leave your motorcycle unattended.

The engine, exhaust pipes, and mufflers stay hot for a long time.

Park your motorcycle where no one is likely to hit it and use the centre stand whenever possible.

Never park on uneven or soft ground or your motorcycle may fall over.

Carrying the maximum load allowed

Your motorcycle is designed for long-distance riding, carrying the maximum load allowed in full safety and comfort.

Even weight distribution is critical to preserving these safety features and avoiding trouble when performing sudden manoeuvres or riding on bumpy roads.

When the side panniers are fitted, never exceed 130 Km/h.

Further reduce speed if tyres are worn down and when riding on poor road surface or with poor visibility.

Information about carrying capacity

The total weight of the motorcycle in running order including rider, pillion passenger, luggage and additional accessories should not exceed 420 Kg.

The weight of luggage alone should never exceed 23 Kg divided as follows (fig. 1):

max 9 kg for each side pannier;

max 5 kg for tank bag.

Try to arrange your luggage or heavy accessories in the lowest possible position and close to motorcycle centre. Be sure to secure the luggage to the supports provided on the motorcycle as firmly as possible. Improperly secured luggage may affect stability.

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

Do not insert any objects you may need to carry into the

gaps of the frame as these may foul moving parts.

If you install the side panniers (available from Ducati Parts Department):

sort luggage and accessories so to distribute weight evenly and then arrange them in the panniers so that they are well balanced; lock both side panniers using the suitable key lock.

Make sure the tyres are inflated to the proper pressure indicated at page 58 and that they are in good condition.

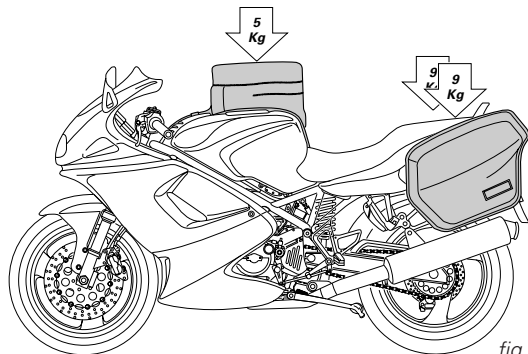


fig. 1

Identification data

All Ducati motorcycles have two identification numbers, for frame (fig. 2.1) and engine (fig. 2.2).

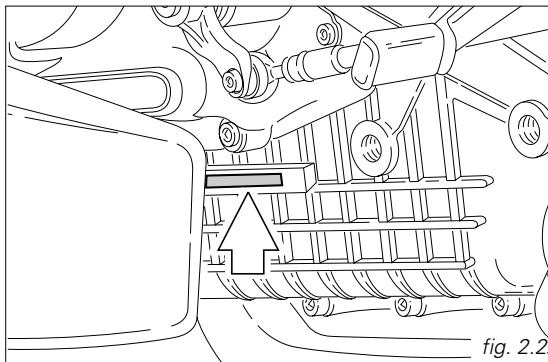
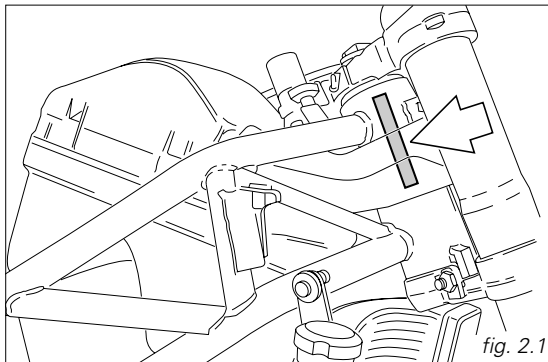
Frame number

Engine number



Note

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



CONTROLS

E



Warning

This section details the position and function of all the controls you need to drive your motorcycle. Be sure to read this information carefully before you use the controls.

Position of motorcycle controls (fig. 3)

- 1) Instrument panel.
- 2) Key-operated ignition switch and steering lock.
- 3) Left switch.
- 4) Clutch lever.
- 5) Cold start lever.
- 6) Right switch.
- 7) Throttle twistgrip.
- 8) Front brake lever.
- 9) Gear change pedal.
- 10) Rear brake pedal.

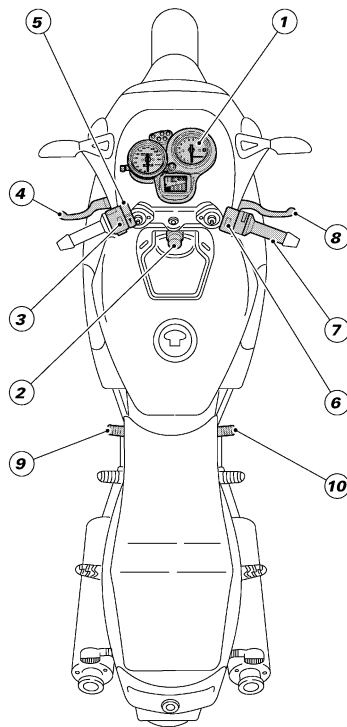


fig. 3

Instrument panel (fig. 4.1)

1) **Speedometer** (km/h or mph).

Gives road speed.

a) **Odometer** (km or miles).

Gives total distance covered.

b) **Trip meter** (km or miles).

Gives distance covered since last resetting.

c) **Trip meter** resetting knob.

Turn to reset trip meter to "0000".

2) **Engine revolution meter** (rpm)

Indicates engine rpm.

3) **Green light** N.

Comes on when gearbox is in neutral.

4) **Yellow light** ⛽.

Comes on when there are about 6 liters fuel left in the tank, corresponding to 1 bar of the digital display (8.1).

5) **Green light** ⇄.

Comes on and flashes when a turn indicator is on.

6) **Red light** ⚠.

Comes on when engine oil pressure is too low. It briefly comes on when the ignition is switched to **ON** and normally goes out a few seconds after engine starts. It may shortly come on when the engine is hot, however, it should go out as the engine revs up.



Important

If this light stays on, stop the engine or it may suffer severe damage.

7) **Blue light** ☰.

Comes on when high beams are on.

8) **Digital display.**

Offers four functions (see page 12).

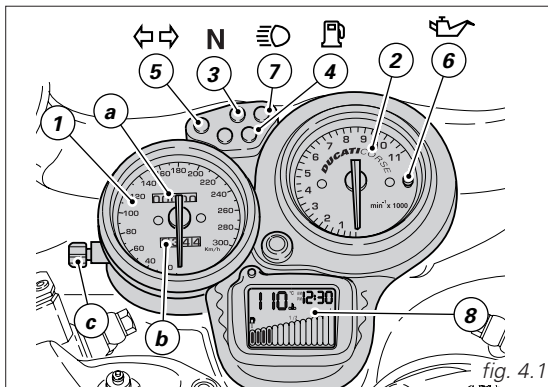


fig. 4.1

Digital display (fig. 4.2)

8.1) Fuel level indicator

The fuel level in the tank is indicated by full bars. When there is only 1 full bar left on, it will start blinking while the reserve light (4, fig. 4.1) will come on.

8.2) Coolant temperature indicator

Shows engine coolant temperature. When the engine is cold, the flashing message **LO** is displayed.

Engine temperature is displayed from 45 °C and over. If engine maximum temperature (120 °C) is reached, the indicator will start blinking.

Important

Stop the engine if it reaches maximum temperature or it may suffer severe damage.

8.3) Clock

The first figure gives hours, the second one minutes.

8.4) Clock setting button

Press it briefly to increase minutes. Keep it depressed to speed up the process.

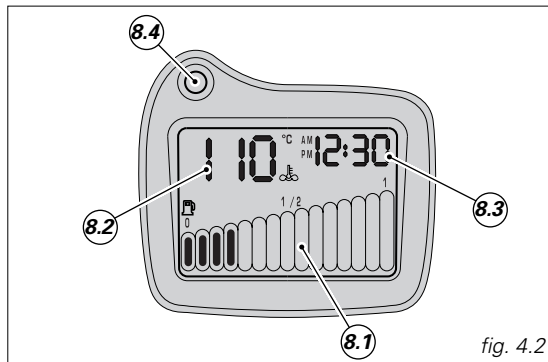


fig. 4.2

Keys (fig. 5)

Your Ducati was delivered with two universal keys for ignition, steering lock, tank filler plug and seat catch and a key identification plate (1).



Note

Separate the two keys and keep the identification plate in a safe place.

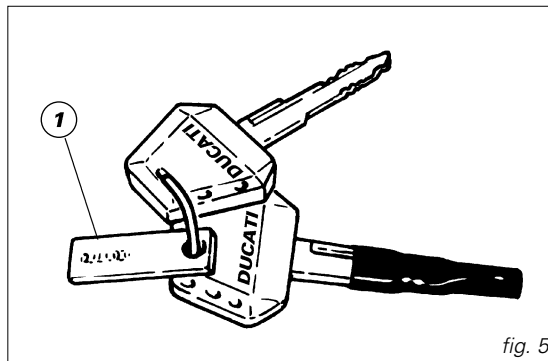


fig. 5

Key-operated ignition switch and steering lock

(fig. 6)

It is located in front of the fuel tank and has four positions:

- A) **ON**: lights and engine on;
- B) **OFF**: lights and engine off;
- C) **LOCK**: steering locked;
- D) **P**: parking light and steering lock.



Note

To move the key to the last two positions, press it down before turning it. Switching to (B), (C) and (D), you will be able to take the key out.

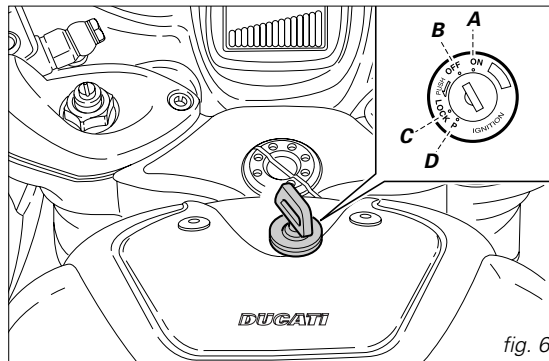





fig. 6

Left switch (fig. 7)

1) Switch, light switch, 3 positions:

Down  = lights off;

Centre  = front and rear parking light, number plate light and panel lights on;


Up  = headlamp, front and rear parking light, number plate light and panel lights on.





Note

This device is not fitted on the Australia and Japan versions.


2) Dip switch, light dip switch, two positions:


position  = low beam on;

position  = high beam on.


3) Switch  = 3-position turn indicator:

centre position = OFF;

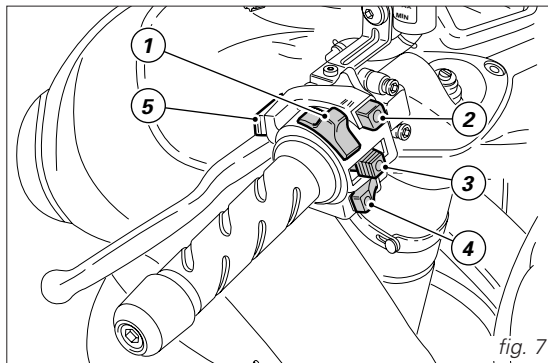
position  = left turn;

position  = right turn.

To cancel turn indicators, return switch to central position and push in.

4) Button  = warning horn.

5) Button  = high-beam flasher.



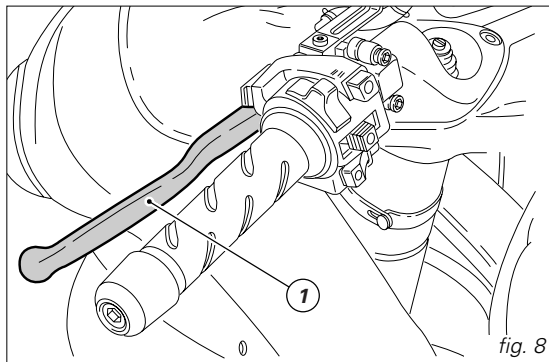
Clutch lever (fig. 8)

Lever (1) disengages the clutch. When you pull in the lever, you will disengage the engine from the gearbox and therefore from the driving wheel. Using the clutch properly is essential to smooth riding, especially when moving off.



Important

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



Cold start lever (fig. 9)

Use this device to start the engine from cold. It will increase the engine idling speed after starting.

Lever positions:

A) (vertical) = closed

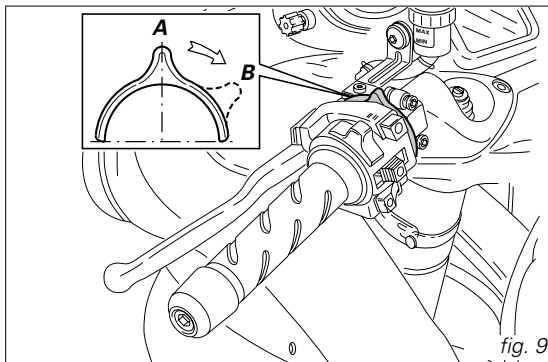
B) fully open.

The lever can be opened and closed gradually to adjust speed until engine is fully warm (see page 33).



Important

Never use the cold start device when the engine is warm or leave it open when riding.



Right switch (fig. 10)

G) Switch for **ENGINE STOP**, two positions:

position ○ (**RUN**) = run.

position ☒ (**OFF**) = stop.

Warning

This switch is mainly intended for use in emergency cases when you need to stop the engine quickly. After stopping the engine, return the switch to the ○ position to enable starting.

Important

Stopping the engine using switch (1) when riding with lights on and leaving the ignition key in the **ON** position, may run the battery flat as the lights will remain on.

2) Button ☐ = engine start

Throttle twistgrip (fig. 10)

The twistgrip (3) on the right handlebar opens the throttles. When released, it will spring back to the initial position (idling speed).

Front brake lever (fig. 10)

Pull in the lever (4) towards the twistgrip to operate the front brake. The system is hydraulically operated and you just need to pull the lever gently.

Warning

Please read the instructions on pages 33 and 35 before using these controls.

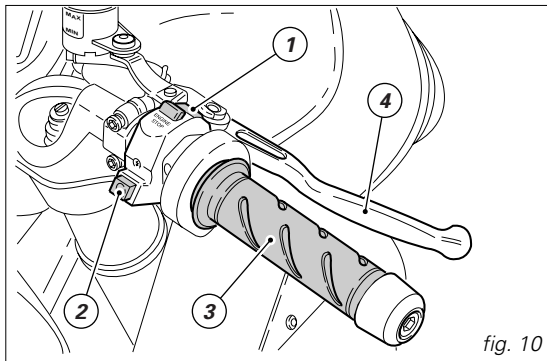


fig. 10

Rear brake pedal (fig. 11)

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

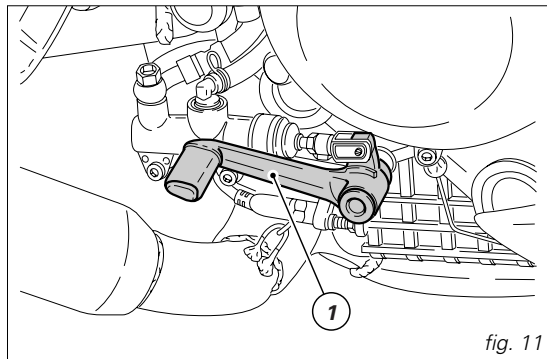


fig. 11

Gear change pedal (fig. 12)

The gear change pedal is at rest when in the central position **N**, is moved up and down to change gears and then returns to the central position.
down = push down on the pedal to engage 1st gear and to shift down. The **N** light will go out.
up = lift the pedal to engage the 2nd gear and then the 3rd, 4th, 5th and 6th gear.
Each time you move the pedal you will engage the next gear.

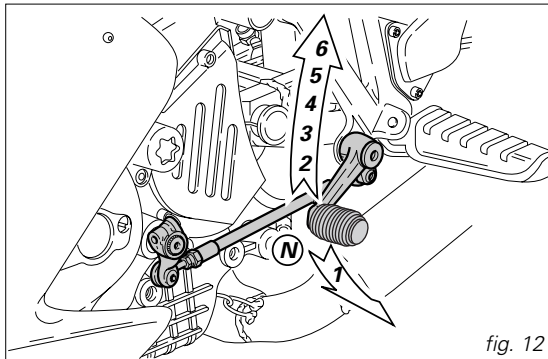


fig. 12

Setting the gear change and rear brake pedals

The gear change and rear brake pedals can be adjusted to suit the preferred riding position of each rider.

To set the gear change pedal, lock linkage (1) and loosen the check nuts (2) and (3).

Note
Nut (2) has a left-hand thread.

Rotate linkage (1) until setting pedal in the desired position.

Tighten both check nuts onto linkage.

To set the rear brake pedal, loosen check nut (4).

Turn pedal travel adjusting screw (5) until pedal is in the desired position.

Tighten check nut (4).

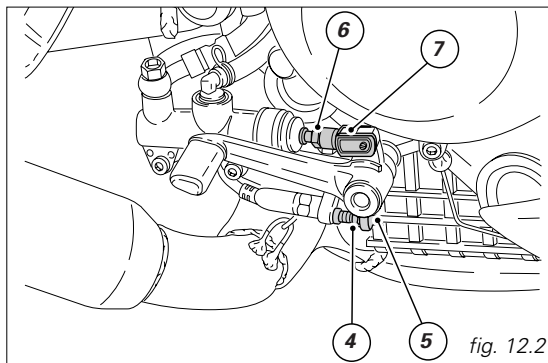
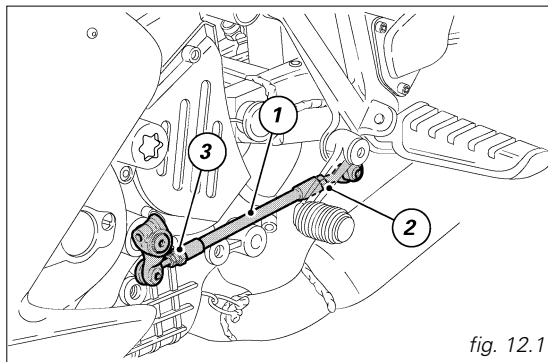
Work pedal by hand to make sure it has 1.5 - 2 mm free play before brake begins to bite.

If not so, set the length of cylinder linkage as follows.

Loosen the check nut (6) on cylinder linkage.

Tighten linkage into fork (7) to increase play, or unscrew linkage to reduce it.

Tighten check nut (6) and check pedal free play again.



MAIN COMPONENTS AND DEVICES

Location (fig. 13)

- 1) Tank filler plug.
- 2) Seat catch and helmet hook.
- 3) Side stand.
- 4) Lifting handgrip
- 5) Centre stand.
- 6) Rear view mirrors.
- 7) Front fork adjusters.
- 8) Shock absorber adjusters.

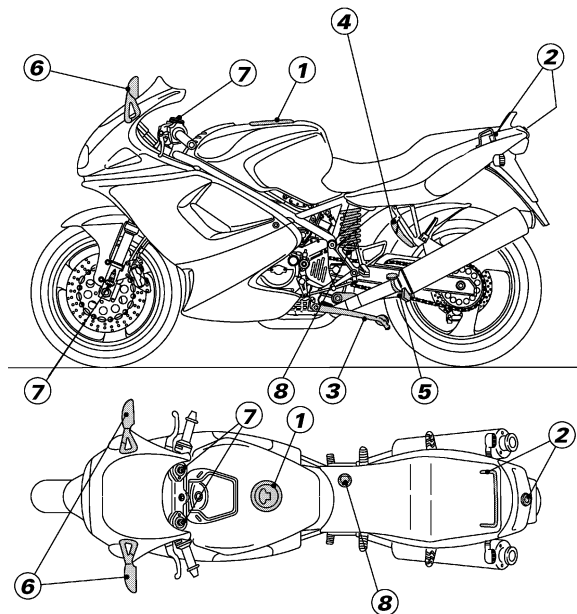


fig. 13

Tank filler plug (fig. 14)

Opening

Lift the protection lid (1) and fit the ignition key into the lock. Turn the key clockwise 1/4 turn to unlock. Lift the plug.

Closing

Refit the plug with the key in it and push it down into its seat.

Turn the key anticlockwise to its initial position and take it out. Close the lock protection lid (1).



Note

The plug can only be closed with the key in.



Warning

Always make sure you have properly refitted (see page 37) and closed the plug after each refueling.

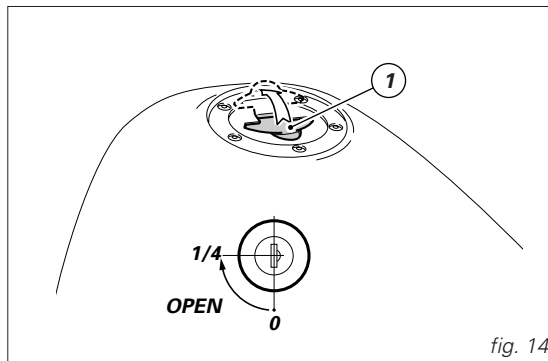


fig. 14

Seat catch and helmet hooks

Opening (fig. 15.1)

Fit the ignition key into the lock (1) and turn the key clockwise about 1/4 turn until the rear end of the seat lifts up. Pull the seat backwards to slide it off its front holders.

On the rear end of the compartment underneath the seat, there is the helmet fastening cable (1) (see page 38). Insert the cable into the helmet and insert the ends of the cable into one of the two hooks (2). Leave the helmet hanging outside (fig. 15.2) and refit the seat.

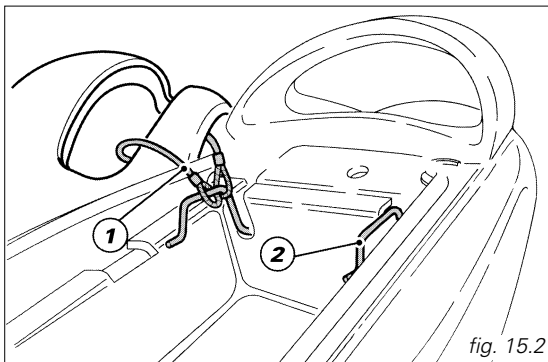
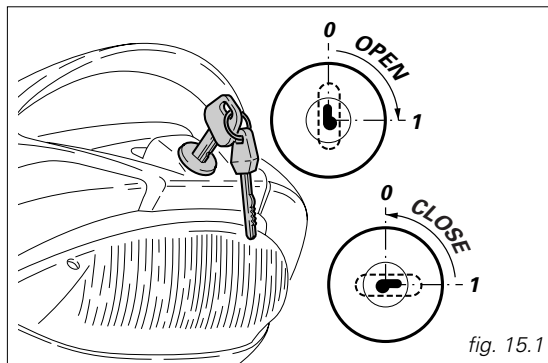


Warning

This system is intended to lock your helmet safely when you park your motorcycle. Never leave the helmet hanging from the hook when riding or it may get in the way and make you lose control of the motorcycle.

Closing

Make sure that all parts are arranged and secured properly inside the compartment under the seat. Slide the front ends of the seat bottom underneath the frame U-bolt and push down on the rear end of the seat until you hear the catch click. Make sure the seat is firmly secured to the frame and take the key out of the lock.



Anti-theft padlock (fig. 15.3)

The anti-theft padlock (1) is stored under the seat.

Remove strap (2) to take padlock out.

Use the padlock in addition to the steering lock when parking your motorcycle in unsafe areas.



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.

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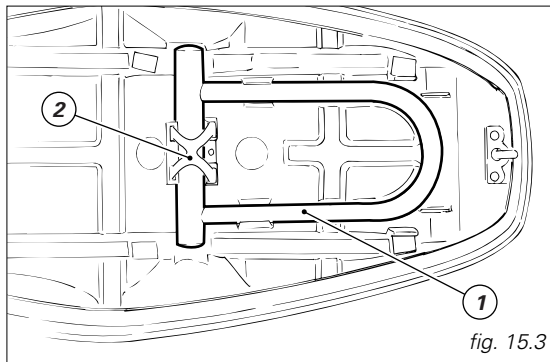


fig. 15.3

Side stand (fig. 16)



Important

Put the motorcycle on the side stand only when you expect to stop for a short 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 thrust arm (1) with your foot until it is fully extended. Tilt the motorcycle until the side stand is resting on the ground.



Warning

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

To move the side stand to its rest position (horizontal position), tilt the motorcycle to the right and, at the same time, lift the thrust arm (1) with your foot.

**Note**

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

**Warning**

The motorcycle can only be started if the side stand is in "rest" position as it is equipped with a safety device preventing engine start if the stand is down.

Lifting handgrip

A handgrip (1, fig. 17) that pivots on the left pillion passenger footpeg is provided to help you place the motorcycle on the centre stand or keep it upright when manoeuvring to park it.

Fold out the handgrip. After use, just release it and it will fold back to its rest position.

Power outlet

A specific power outlet (2, fig. 17) has been fitted to feed dedicated accessories. Outlet is protected by a 3A fuse.

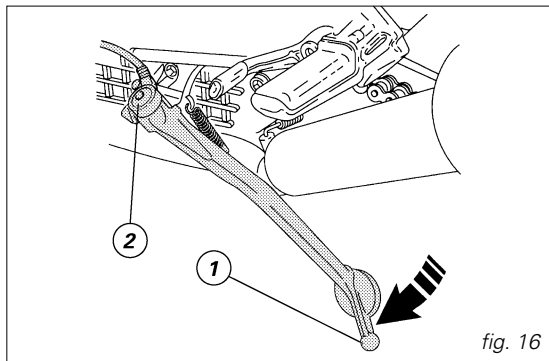
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fig. 16

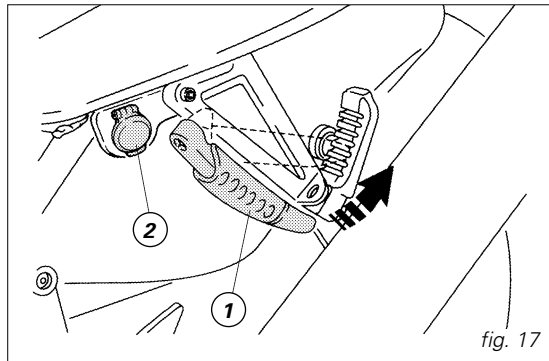


fig. 17

Centre stand

Always use the centre stand (1, fig. 18.1) to support the motorcycle steadily when parked. It is designed to support the motorcycle even when carrying the maximum load allowed.

Warning

⚠ Before putting the motorcycle on the centre stand, make sure the bearing surface is hard and flat.

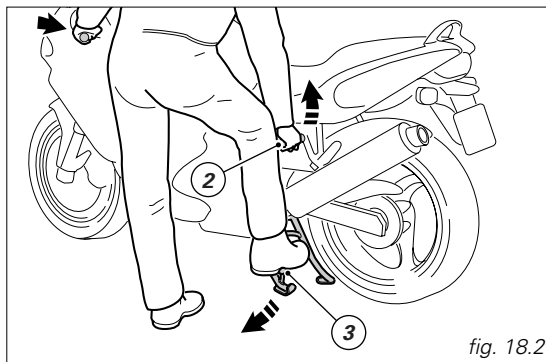
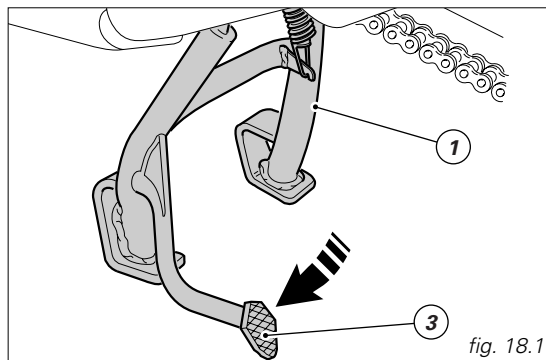
Hold the left handlebar with your left hand and the lifting handgrip (2, fig. 18.2) with your right hand. Push down on the thrust arm (3) of the centre stand until it touches the ground. At the same time, hold the handgrip and pull the motorcycle upward and backward.

To take the bike off the centre stand, simply hold the handlebars and push the motorcycle forward, until the front wheel touches the ground. The stand will spring back to rest position automatically.

Warning

⚠ Before moving off, always make sure the centre stand is fully up.

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



Rear view mirrors (fig. 19)

The rear view mirrors of your motorcycle are made up of two parts held together by a special inner spring. This spring counters mirror rotation so the mirror will not smash the headlamp fairing if hit accidentally. The spring then moves the mirror back to its original position.

Important

If either of the mirror parts comes off, have the mirror repaired or replaced by a Dealer or at an authorized workshop.

Warning

Never ride with a missing rear view mirror: the inability to see the traffic behind you may lead to severe accidents.

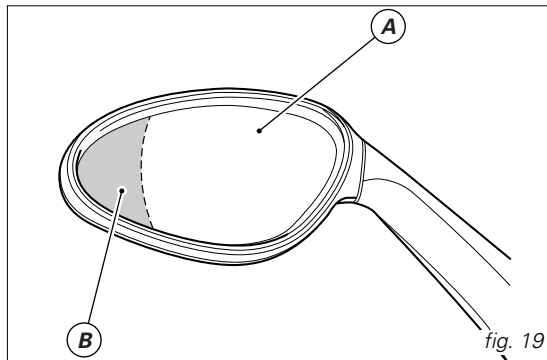
The mirrors have bifocal lenses that offer a wider range of vision, with no blind spots:

A) inner area = normal view

B) outer area = magnified view.

Warning

What you see in the mirror is actually closer to you than it appears in the mirror view, even more so when looking at the magnifying outer area (B).



Front fork adjusters ST4

The front fork has rebound and compression damping adjusters.

This adjustment is done using the outer adjusters:

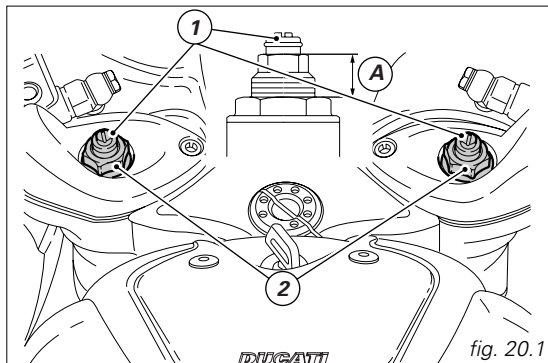
- 1) (fig. 20.1) to adjust rebound damping;
- 2) (fig. 20.1) to adjust inner springs preload;
- 3) (fig. 20.2) to adjust compression damping.

Turn the adjuster (1) on fork leg top with a flat screwdriver to adjust rebound damping.

To reach the adjuster (3, fig. 20.2), insert a screwdriver into the passing hole on the wheel spindle at fork leg axis.

As you turn the adjusting screws (1 and 3), you will hear them click. Each click identifies a setting. Turn the screw all the way in to set the hardest damping (position 0).

This will be your starting point. Now turn the screw anticlockwise and listen for the clicks that identify setting positions no. "1", "2" and so on.



STANDARD factory setting is as follows:

compression: 12 clicks;

rebound: 11 clicks.

The setting range is 14 clicks (both for rebound and compression). The 14th click gives the softest damping. To change the preload of the spring inside each fork leg turn the hex. adjusting nut (2) with a 22-mm hexagon wrench.

Height A (fig. 20.1) determines preload and may vary from 25 to 10 mm.

Factory setting is 16 mm.



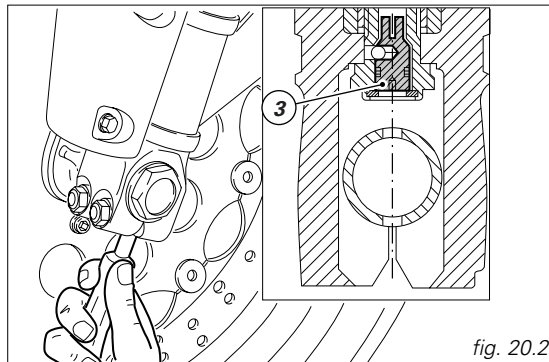
Important

Adjust both fork legs to same settings.



Note

On the ST2 spring preload only may be adjusted.



Shock absorber adjusters

The shock absorber has outer adjusters that enable you to adjust your motorcycle to the load.

The adjuster (1, fig. 21.1) located on the rear right hand side near the control unit controls rebound damping.

The adjuster (2, fig. 21.2) on the shock absorber expansion reservoir controls compression damping.

Turning the adjusters (1 and 2) clockwise gives harder damping **H**, turning anticlockwise gives softer damping **S**.

STANDARD setting. Turn the adjusters all the way in (clockwise) then:

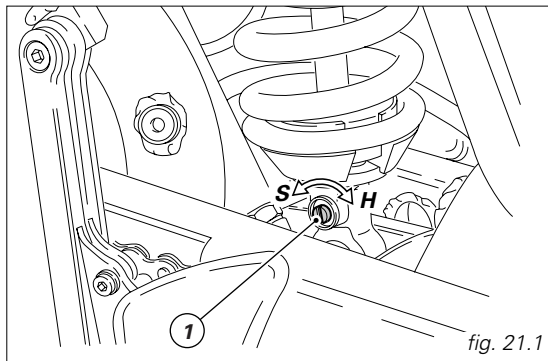
- undo the adjuster (1) 2.5 turns;
- undo the adjuster (2) 12 clicks.

The ring nut (3, fig. 21.3) located on the top section of the shock absorber controls outer spring preload.

To change spring preload, turn the ring nut clockwise or anticlockwise to increase or decrease spring preload as required. Use the supplied pin wrench.

STANDARD spring length:

160 mm.





Warning

Use a specific pin wrench only to turn the preload adjusting ring nut. Be careful when turning the nut with the wrench, as the pin may slip out of the nut recess and you may hurt your hand hitting motorcycle parts. The shock absorber is filled with gas under pressure and may cause severe damage if taken apart by unskilled persons.

When carrying a passenger and a load, 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.

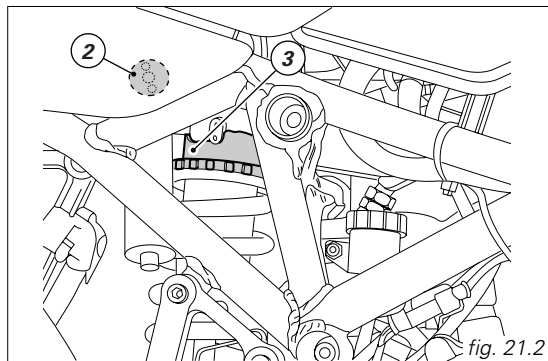


fig. 21.2

DIRECTIONS FOR USE

E

Running-in recommendations

Max. rotation speed (fig. 22)

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

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

Up to 1000 km/620 miles

During the first 1000 km, keep an eye on the revolution meter. The indicator must not exceed:

- 5500 rpm (ST2)
- 6000 rpm (ST4).

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. Do not brake violently or keep brake applied for too long. This will enable a correct break-in of friction material on brake

pads against 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 and tighten it as required.

From 1000 to 2500 km

At this point, you can squeeze some more power out of your engine, being careful, however, to never exceed:

- 7000 rpm (ST2)
- 7500 rpm (ST4).

Important

During the whole running-in period, the maintenance and service rules recommended in this manual should be observed carefully. Have the service inspections performed as recommended in the Warranty Card.

Failure to comply with these rules will release Ducati Motor Holding S.p.A. from any liability whatsoever for resulting engine damage or shorter engine life.

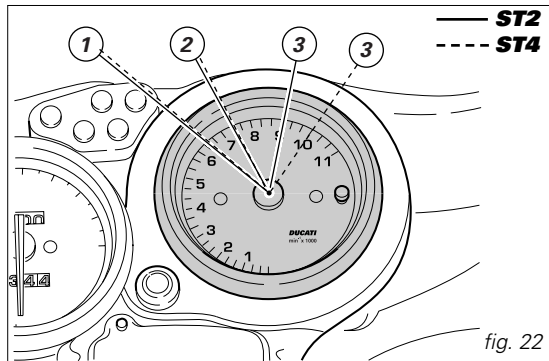
After 2500 km/1550 miles

After running-in, never exceed the following values during the motorcycle standard use:

9000 rpm (ST2);

10000 rpm (ST4).

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



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 fuel level in the tank.
Fill tank if needed (page 37).

Engine oil level

Check oil level in the sump through the sight glass. Top up with recommended oil if needed (page 60).

Brake and clutch fluid

Check fluid level in the relevant reservoirs.

Coolant level

Check coolant level in the expansion reservoir. Top up if necessary (page 45).

Tyre condition

Check tyre pressure and condition (page 58).

Controls

Work the brake, clutch, throttle and gear change controls (levers, pedals and twistgrips) and check for proper operation.

Lights and indicators

Make sure lights, indicators and horn work properly.
Replace any burnt-out bulbs (page 51).

Key-operated locks

Check that fuel filler plug and seat catch locks are closed firmly.

Stand

Make sure side stand (page 22) and centre stand (page 24) operate smoothly and are in the correct position.



Warning

In case of malfunctioning, do not start the motorcycle and call a Ducati Dealer or authorized workshop.

Starting the engine



Note

Follow the “High ambient temperature” procedure to start the engine when it is warm.




Warning

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

Regular ambient temperature

(10 to 35 °C):

1) Move the ignition key to **ON** (fig. 23.1). Make sure both the green light **N** and the red light  on the instrument panel come on.



Important

The oil pressure light should go out a few seconds after the engine has started (page 11).



Warning

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

2) Move the cold start lever to the B position (fig. 23.2).
3) Check that the stop switch (1, fig. 23.3) is positioned to **○ (RUN)**, then press the starter button (2).
Let the engine start without using the throttle control.

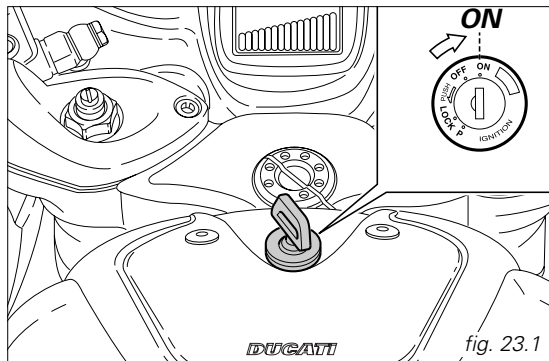


fig. 23.1

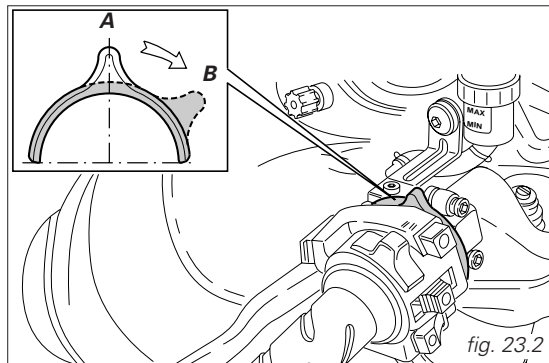


fig. 23.2

Important

Never operate the electric start button more than 5 seconds at a time. If needed, allow 10 seconds before attempting to restart the engine.

4) Move the cold start lever to the vertical position (A) to let engine idle at about 1400-1500 rpm.

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Important

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

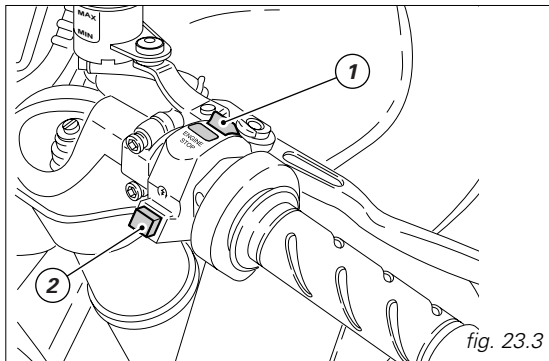
5) As the engine warms up, move the cold start lever gradually towards the vertical position (A). Once fully warm, the engine should hold idling rpm with the cold start shut down.

High ambient temperature (over 35 °C):

Follow the same procedure, however, do not use the cold start device.

Cold ambient temperature (below 10 °C):

Follow the procedure for "Regular ambient temperature", however allow 5 minutes for the engine to warm up (see step 5).



Moving off

- 1) Disengage the clutch squeezing the control lever.
- 2) Push down on gear change lever sharply with the tip of your foot to engage the first gear.
- 3) Speed up engine, by turning the throttle twistgrip and slightly releasing the clutch lever at the same time. The motorcycle will start moving off.
- 4) Let go of clutch lever and speed up.
- 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, release the twistgrip, pull the clutch control lever, shortly speed up to help gears synchronize, shift down 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.

Important

Avoid harsh accelerations, as this may lead to carburettor flooding and transmission snatching. The clutch lever should not be pulled longer than necessary after gear is engaged, or friction parts may overheat and wear out.

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.

Warning

Use both brake lever and pedal for effective braking. Using only one of the brakes will give you less braking power.

Never use brake controls harshly or violently or 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 tyres reduce braking efficiency, handling accuracy and stability in a bend.

Stopping the motorcycle

If you let go of the throttle twistgrip, the motorcycle will slow down gradually and smoothly. Then, shift down releasing the clutch, and finally change from first to neutral. Apply brakes and you will bring the motorcycle to a complete stop. To switch the engine off, simply turn the key to **OFF** (fig. 24).

E



Important

Never leave the key in the **ON** position when engine is stopped, or this will damage the electric components.

Parking

Stop the motorcycle, then put it on the centre stand to park it (see page 24).

Turn the handlebar fully left and block it by pushing in the ignition key and turning it to the **LOCK** position (fig. 24).

To avoid theft, use the supplied padlock (see page 23).

If you park in a garage or other facilities, make sure that there is proper ventilation and that the motorcycle is not near a source of heat or sparks.

You may leave the parking lights on by turning the key to position **P**.



Important

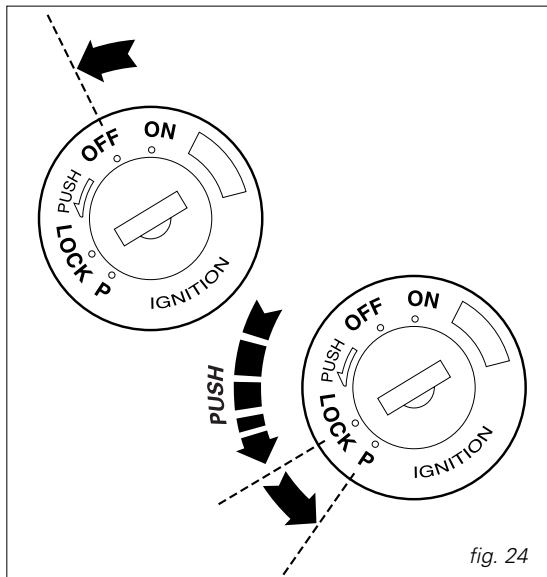
Do not leave the key turned to **P** for long periods or the battery will run down.

Never leave the ignition key in the switch when you are leaving your bike unattended.



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.



Refueling

Never overfill the tank when refueling. Fuel should never be touching the rim of filler recess (fig. 25).



Warning

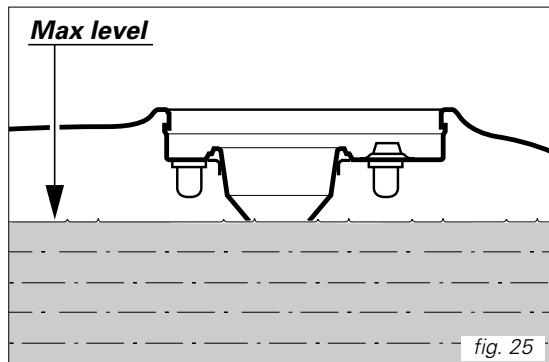
Be sure there is no fuel trapped in the filler recess.



Warning

Use fuel with low lead rating and original octane rating of at least 95.

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Tool kit and accessories (fig. 26)

The compartment under the tail guard holds:
an Owner's manual
a helmet fastening cable
a tool bag for normal maintenance and checks to be performed by the user.

To reach this compartment, the tail guard must be removed by opening the catch (page 21).

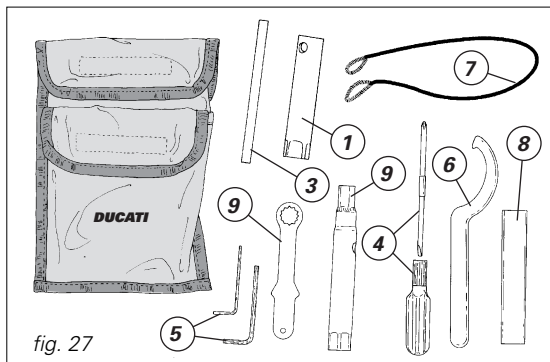
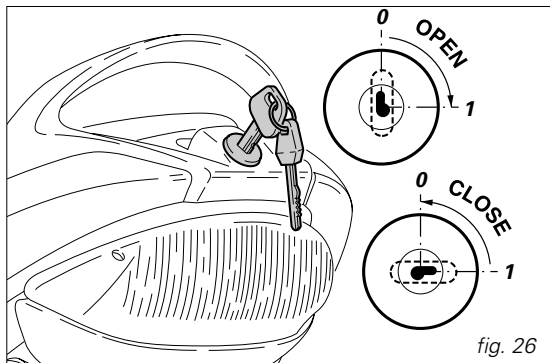
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ST2 tool bag holds (fig. 27)

- 1) Box wrench for spark plugs.
- 3) Tommy bar.
- 4) Double-bit screwdriver.
- 5) Allen wrenches.
- 6) Pin wrench for shock absorber ring nut.
- 7) Helmet fastening cable.

ST4 tool bag holds (fig. 27)

- 2) Box wrench for spark plugs.
- 4) Double-bit screwdriver.
- 4) Allen wrenches.
- 6) Pin wrench for shock absorber ring nut.
- 7) Helmet fastening cable.
- 8) Extension.
- 9) Box wrench.



MAIN MAINTENANCE OPERATIONS

Removing the fairing

Some servicing operations need the motorcycle fairing to be removed.



Warning

Firmly secure all removed parts when refitting them, otherwise some of them might suddenly come off when riding and you may lose control of your motorcycle.

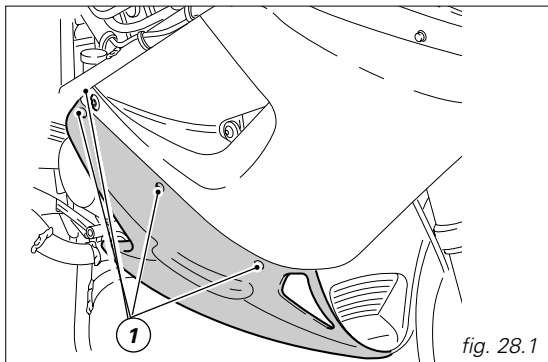


Important

At reassembly always use nylon washers when tightening fastening screws, not to damage painted parts and Plexiglas windproof cover. Some fastening screws are of the self-tapping type; do not overtighten, otherwise threading might damage and screws would not be tightened properly next time.

Lower body panels

Unscrew the four screws (1) that hold each lower body panel to the upper body panels (fig. 28.1).



Unscrew 2 of the 4 lower screws (2, fig. 28.2) that hold the body panels together and to the central air conveyor. Remove the lower body panels.

Instrument panel side guards (fig. 29)

Remove the screw in the centre (1) joining the two side guards together and the two screws (2) that secure them to the inner headlamp guard.



Note

These screws have nylon washers (3).

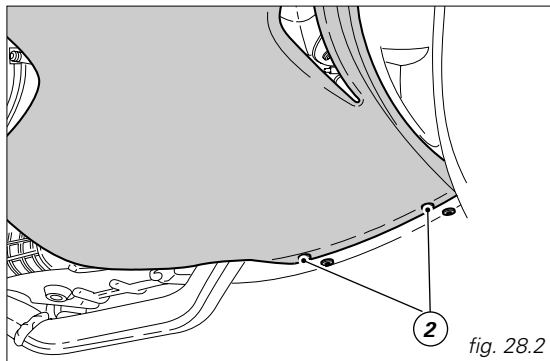


fig. 28.2

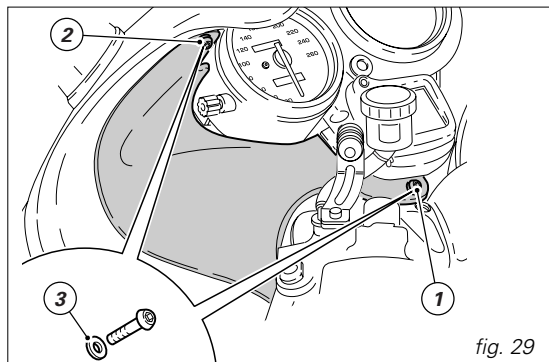


fig. 29

Headlamp fairing

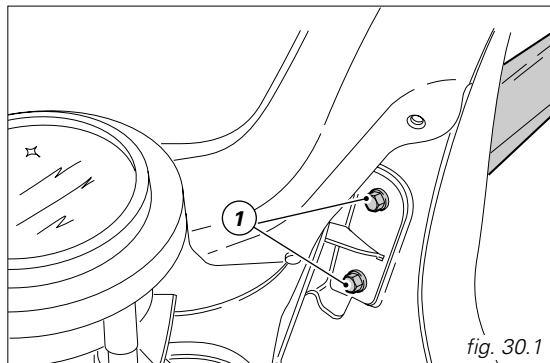
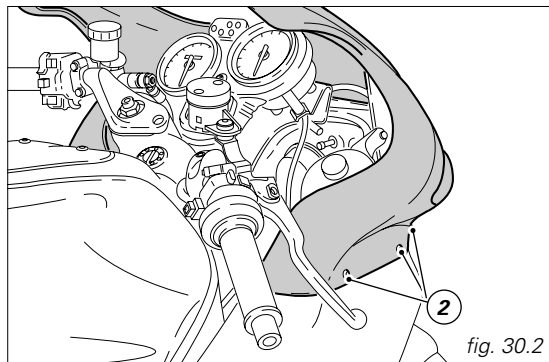
Removed the side guards.

Detach the rear view mirrors from the headlamp fairing by unscrewing the four inner screws (1, fig. 30.1).

Disconnect the cables of the turn indicators.

Unscrew the 6 fastening screws (2, fig. 30.2) that hold the headlamp fairing to the side body panels.

Remove the fairing sliding it off the headlamp.



Removing the upper and lower body panels together

Remove the side guards of the instrument panel and the headlamp fairing.

Unscrew the fastening screw (1, fig. 31.1) that holds each body panel to the side frame on the left side or to the expansion reservoir on the right side and the rear screws (2) that hold each of them to the frame bracket.

Unscrew the front fastening screw (3, fig. 31.2) that holds each body panel to the front baffle.

Unscrew the rear fastening screw (4) holding each body panel to the frame.

Unscrew the two lower fastening screws (5) holding the body panels to the central air conveyor.

Unscrew one of the two screws (6) joining the body panels together. Remove the body panels.

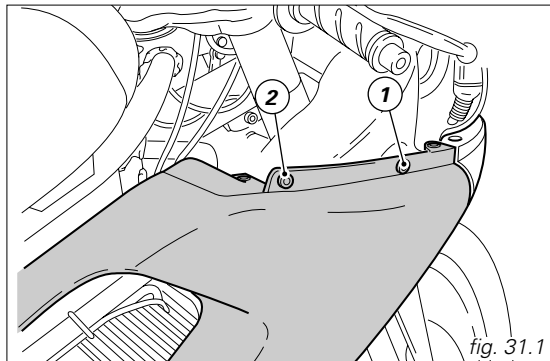


fig. 31.1

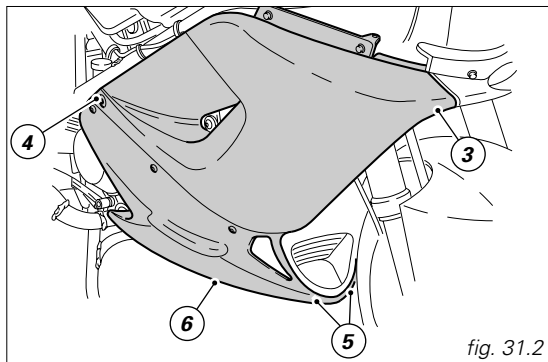


fig. 31.2

Side panniers

The motorcycle comes ready to fit the side panniers.

Side panniers kit in the same colour as the motorcycle is available from Ducati Parts Department.

Kit includes all parts needed to install the panniers as well as the relevant instructions.

Lifting the fuel tank

Unscrew the 2 screws (1, fig. 32.1) that hold the cover to the tank support. Remove the cover sliding it off the ignition switch.

Pull and lift the clip (2, fig. 32.2) off the tank support.

Lift the tank and unhook the support rod (3, fig. 32.3).

Rest the tank onto the rod as shown in the figure.

When you are finished, reverse the above procedure to refit all the parts you have removed.



Warning

Make sure the fuel in the tank is less than 5 litres (the reserve light on the instrument panel should be on) or fuel may leak out through the filler plug breather.

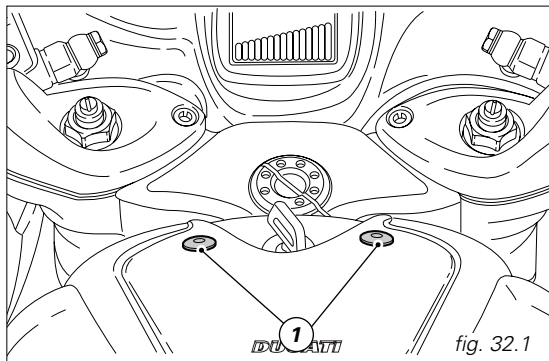


fig. 32.1

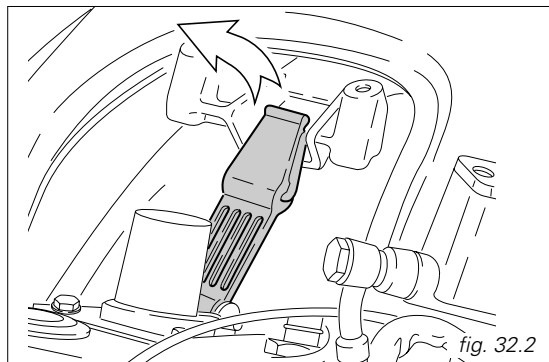


fig. 32.2

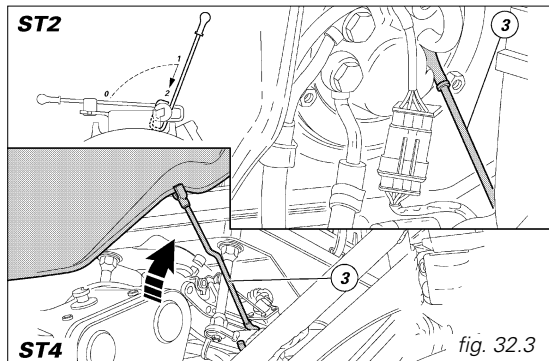


fig. 32.3

Cleaning and changing air filters

Replace air filter at the required intervals shown in the routine maintenance chart (see Warranty Card). The air box is accessible after lifting the fuel tank. Undo the clips (1, fig. 33.1) of the cover on both sides of the air box, then remove cover (2). Remove the filter (3, fig. 33.2) and fit a new one.

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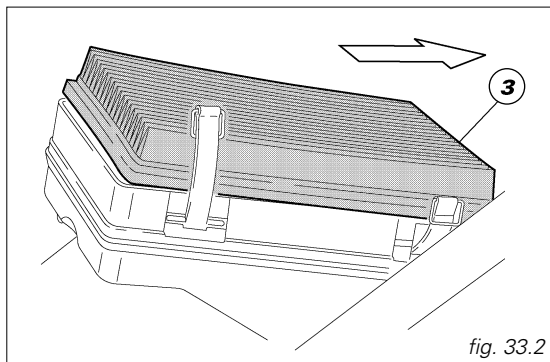
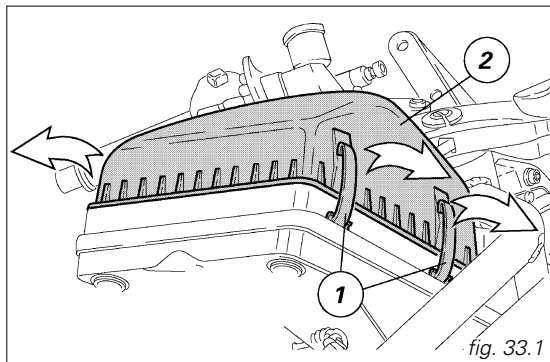
Important

A dirty filter will reduce air intake, increase fuel consumption, reduce engine power, and foul the spark plugs. Do not use the motorcycle without filter or suspended matters could get into the engine and cause damage.

Install the filter properly into its seat in the air box as shown in figure 33.2 and refit all the parts you have removed.

Important

If you are using the motorcycle on dusty or very wet roads, replace filter more frequently than recommended intervals (see Warranty Card).



Checking the coolant level

Check the coolant level in the expansion tank, on the RH side of the motorcycle.

The coolant level must be between the **MAX** and **MIN** marks (fig. 34.1).

Top up if the level is too low.

Remove the r.h. side guard of the instrument panel.

Unscrew the filler (1, fig. 34.2) and add a mixture consisting of water and antifreeze SHELL Advance Coolant or Glycoshell (35-40% of the volume) up to **MAX** mark.

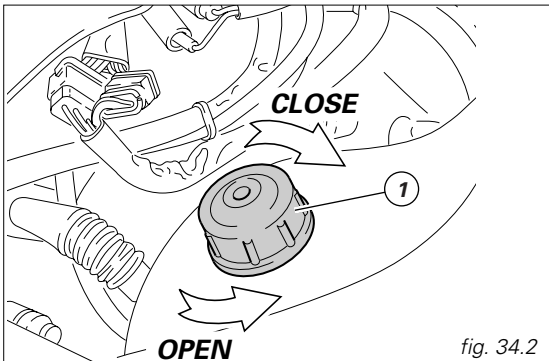
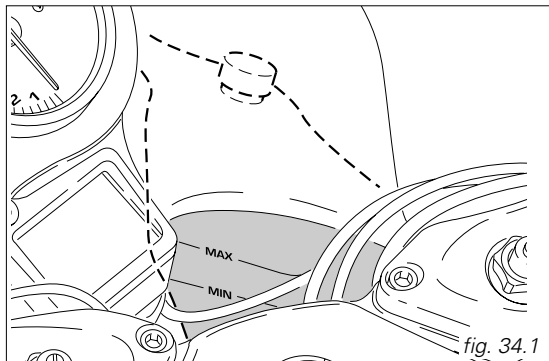
Refit the filler (1) and reassemble all removed parts.

This mixture improves operating conditions (coolant will start freezing at -20°C).

Coolant circuit capacity: 3.5 cu dm (liters).

Warning

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



Checking brake and clutch fluid level

Fluid level should never fall below the MIN mark on each reservoir (fig. 35). 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 routine maintenance chart (see Warranty Card) by a Ducati Dealer or authorized workshop.

Important

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

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 is air in the circuit. Contact your Ducati Dealer or an authorized workshop to have the system inspected and air drained out.

Warning

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

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 an authorized workshop to have the system inspected and any air drained out of the circuit.

Warning

Brake and clutch fluid will damage paintwork and plastic parts if accidentally spilled.

Hydraulic oil is corrosive; it may cause damages and lead to severe injuries.

Never mix different quality oils.

Check seals for proper sealing.

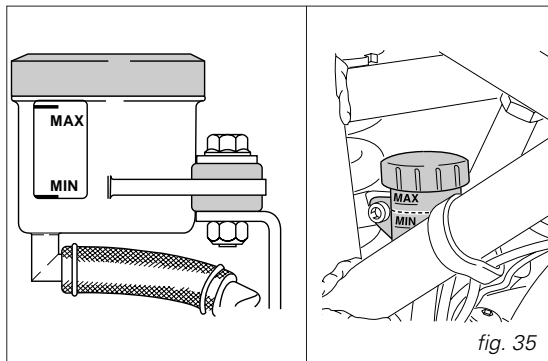


fig. 35

Checking brake pads for wear

Front brake (fig. 36)

To facilitate inspection without removing the pads from the calipers, brake pads have a wear mark. If the grooves in the friction material are still visible, the pad is still in good condition.

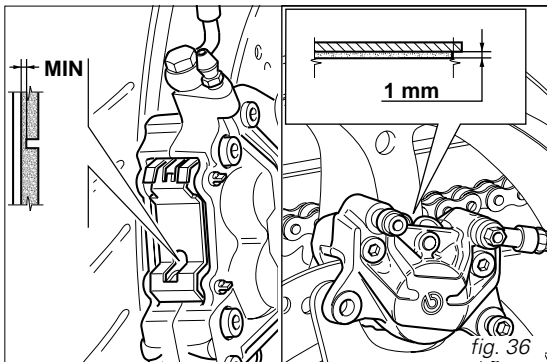
Rear brake (fig. 36)

The friction material on each pad should be at least 1 mm thick.



Important

Have the brake pads replaced at a Ducati Dealer or authorized workshop.



Lubricating cables and joints

The condition of the outer sheaths of the throttle and cold start cables should be checked at regular intervals. The sheaths should show no signs of squeezing or cracking. Work the controls to make sure the cable slides smoothly inside the sheath: if you feel any friction or hard spots, have the cable replaced by your Ducati Dealer or authorized workshop. To prevent these failures, smear the ends of the Bowden cables with SHELL Advance Grease or Retinax LX2 at regular intervals.

For the throttle cable, it is best to remove the cover (1, fig. 37.1, page 48) by unscrewing the two fastening screws (2) and then grease the cable end and the pulley.

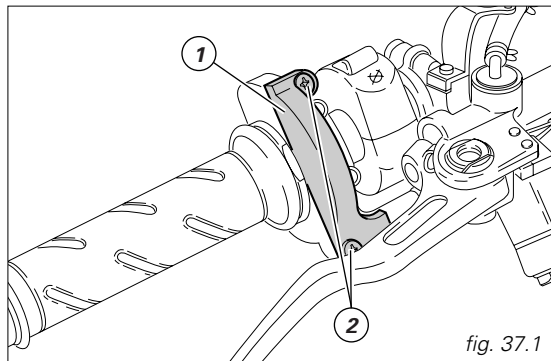


Warning

When refitting the cover, be sure to slide the cable properly onto the suitable pulley and inside the guide in the cover (3, fig. 37.2, page 48).

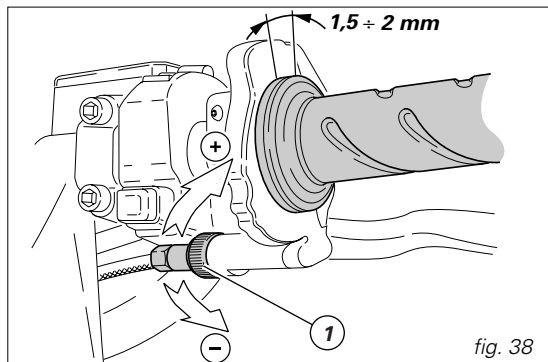
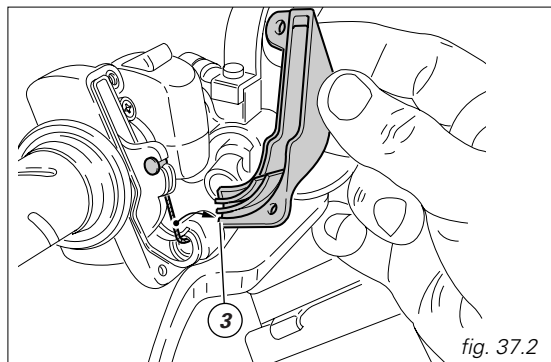
Refit the cover and tighten the screws (2).

To ensure smooth operation of the stand joints, clean off any dirt and apply SHELL Alvania R3 at all points exposed to friction.



Throttle cable adjustment

The throttle twistgrip must have a free play of 1.5 - 2 mm measured at the edge of the twistgrip, at all positions of the handlebars. If it needs adjusting, use the suitable adjuster (1, fig. 38) provided on the throttle control.



Charging the battery (fig. 39)

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

Remove the r.h. side fairing (see page 39), undo the screw (1) and remove the upper bracket.

Always disconnect the black negative terminal (-) first, and then the red positive terminal (+).

Warning

Batteries develop explosive gases: keep it away from heat sources.

Charge the battery in a ventilated room.

Connect the battery charger leads to the battery terminals (red to positive terminal +, black to 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.

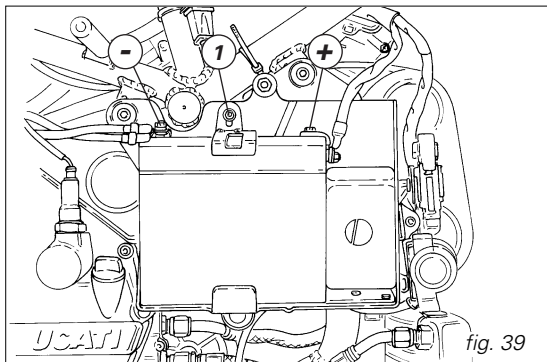
Always connect the red positive (+) terminal first.

Reinstall the battery on its mount and secure the upper bracket with the screw (1). Apply some grease on the fastening screws to improve conductive capacity and connect the terminals.

Warning

Keep the battery out of the reach of children.

Charge the battery at 1 A for 5-10 hours.



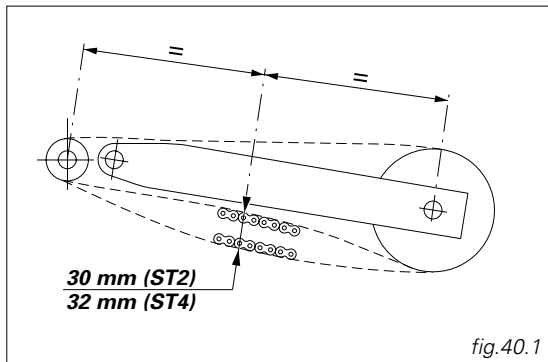
Chain adjustment

Turn the rear wheel slowly until you find the position where chain tension is tightest.

Put motorcycle on the centre stand and push the chain up pressing with a finger at mid-length of swingarm. The lower stretch of chain must have a slack (fig. 40.1) of 30 mm (ST2) 32 mm (ST4).

Chain tension is adjusted as follows:

Slacken the nut (1, fig. 40.2) of the wheel spindle, tighten (turn clockwise) or slacken the screw (2) on either side of the swingarm equally to increase or reduce chain tension. If you are slackening the chain, you will have to push the wheel forward.



Important

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

Make sure you have adjusted to the same setting marks on both sides of the swingarm.

This will ensure perfect wheel alignment.

Grease the thread of the wheel spindle nut (1) with SHELL Retinax HDX2 grease and torque nut to 83 Nm. Grease the threads of adjusting screws (2) with SHELL Alvania R3 grease and torque them to 8 Nm.

Chain lubrication

The chain fitted on your motorcycle has OR seals that keep dirt out of and lubricant inside the sliding parts. The seals might be irreparably damaged if the chain is cleaned using any solvent other than those specific for OR chains or washed using steam or water jets. 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 lead to severe damage to chain, front and rear sprocket.

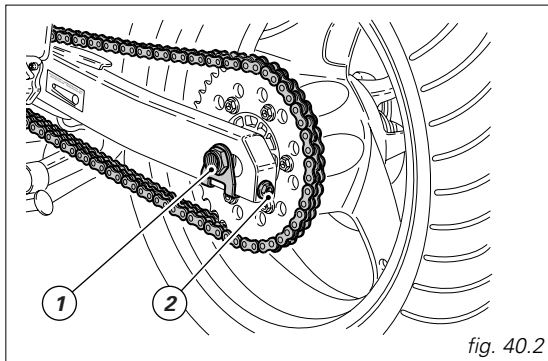


fig. 40.2

Replacing bulbs

Before replacing a burnt-out bulb, make sure that the new one complies with voltage and wattage as specified on page 74, "Electric System", for that lighting device.

Headlamp (fig. 41.1)

To gain access to headlamp bulbs remove the side guards of the instrument panel (see page 40). To facilitate this operation, you may remove the screw (1, fig. 41.1) that holds the instrument panel to the headlamp holder and lift the instrument panel.

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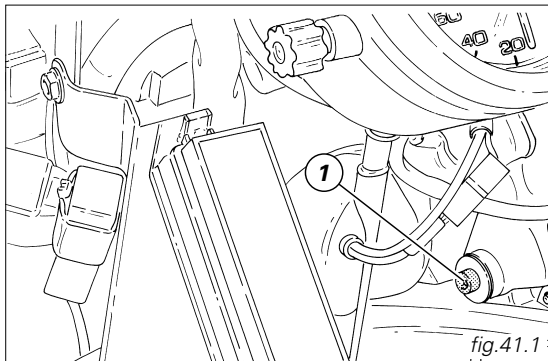
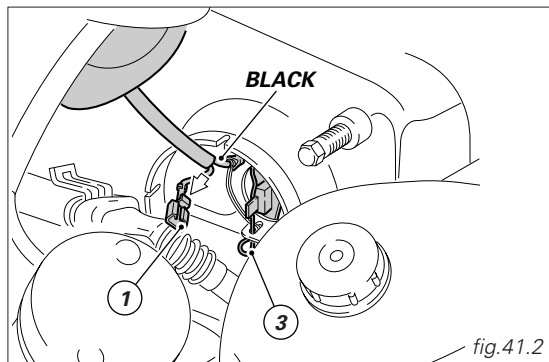


fig.41.1

Disassembly

R.h. low beam bulb:

remove the rubber cover (1). Press the lower quick-release button to disconnect the connector (1, fig. 41.2).



L.h. high beam bulb (fig. 41.3):

disconnect the connector of the white bulb cable from the front wiring. Remove the rubber cover from the headlamp body and pull out the bulb cable.



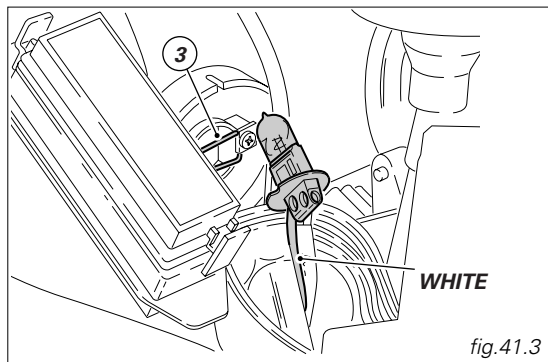
Note

The black ground cable connector does not need to be disconnected to replace the headlamp bulbs. Release the clip (3) that secures the bulb and remove it from the socket (fig. 41.2 and 41.3).



Note

Be careful to hold the new bulb at the base only. Never touch the transparent body with your fingers or it will blacken resulting in reduced bulb brilliancy.



Reassembly

Insert the locating pegs of the bulb base into their seats to obtain correct alignment (fig. 41.4).

Hook the clip (3) to the headlamp holders; reconnect the cables and refit the rubber cover.

To change the parking light bulb, pull out the bulb holder (4, fig. 41.5) from the rear of headlamp first.

Remove the bulb and fit a new one.

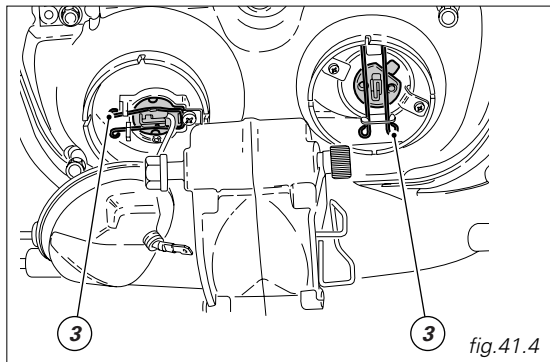


fig.41.4

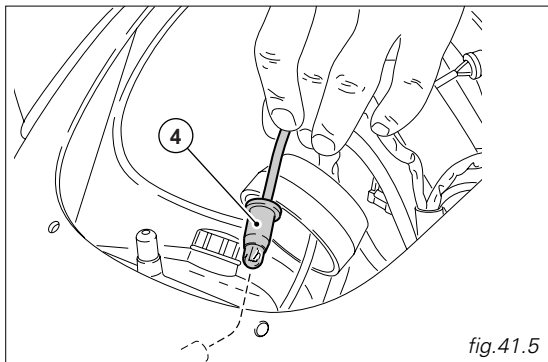

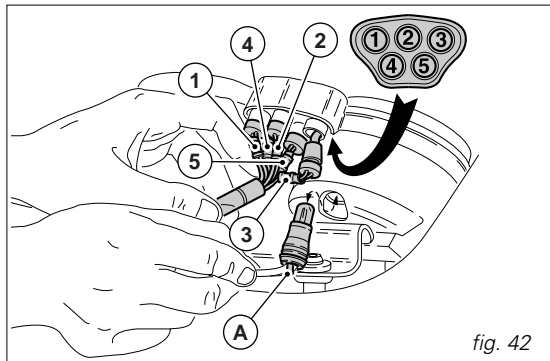


fig.41.5

Instrument panel (fig. 42)

Remove the headlamp fairing to reach the instrument panel bulbs. Extract the lamp holder from behind the instrument and pull out the bulb from its holder to replace it. The bulb holder cables are numbered to avoid confusion in the event more bulbs need replacing at the same time. Be sure to match the numbers marked on the connectors in the instrument panel.

E  **Note** The bulb holders of the instrument panel lights have a tang (A) to aid removal without risking to tear the cables.



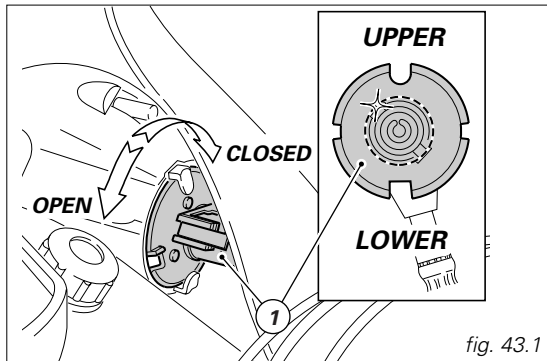
Turn indicators

The bulbs of the turn indicators are accessible after removing the instrument panel side guards.

Front:

Turn the bulb holder (1, fig. 43.1) anticlockwise and remove it from indicator body. Withdraw the burnt-out bulb and replace it.

Refit the bulb holder with the round slot pointing upward and turn it clockwise until it locks in place in the indicator body.

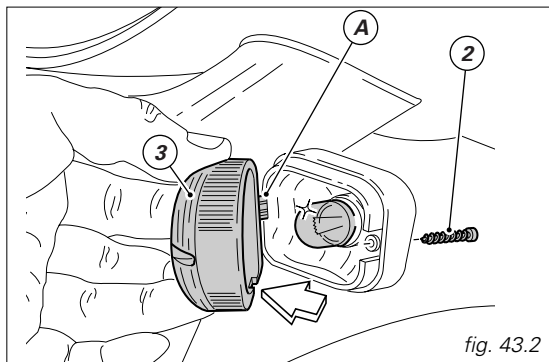


Rear:

remove the screw (2, fig. 43.2) and detach the glass (3) from the indicator body holder.

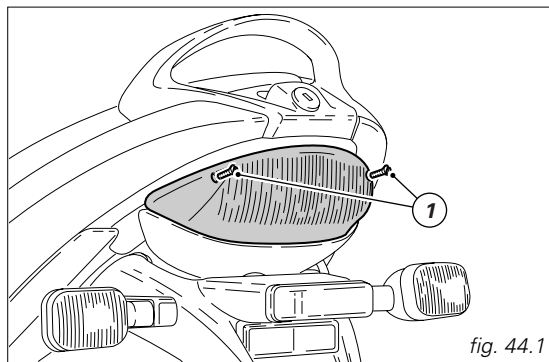
The bulb is of the banjo-type: press and rotate anti-clockwise to remove; fit the spare bulb by pressing and turning clockwise until it clicks.

Refit the glass sliding the small tab (A) into the suitable slot in the indicator body and tighten the screw (2).



Number plate light

To expose the number plate bulb, withdraw the lamp holder from the number plate holder, then extract the bulb and replace it.



Stop light

To replace the stop and parking light bulb, unscrew the two screws (1, fig. 44.1) that secure the glass and remove glass. The bulb is of the banjo-type: press and rotate anti-clockwise to remove; fit the spare bulb by pressing and turning clockwise until it clicks (fig. 44.2). Refit the glass and tighten the screws (1).

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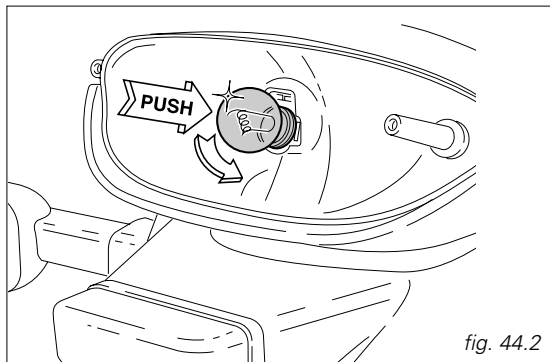


fig. 44.2

Beam setting (fig. 45.1)

When checking beam setting, put the motorcycle upright. Tyres should be inflated at the correct pressure and one person should be sitting astride the motorcycle, keeping it at right angles to its longitudinal axis. Place the motorcycle opposite a wall or a screen, 10 meters apart from it, then draw a horizontal line dictated by headlamp center 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 $9/10^{\text{th}}$ of the height from ground of headlamp center.

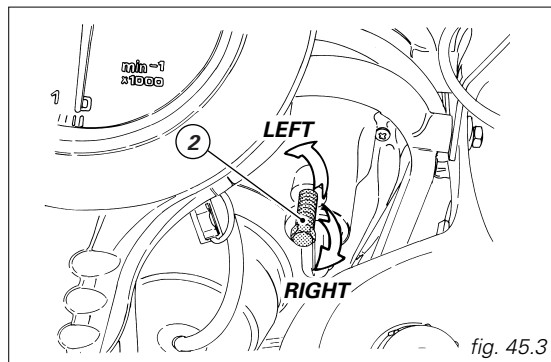
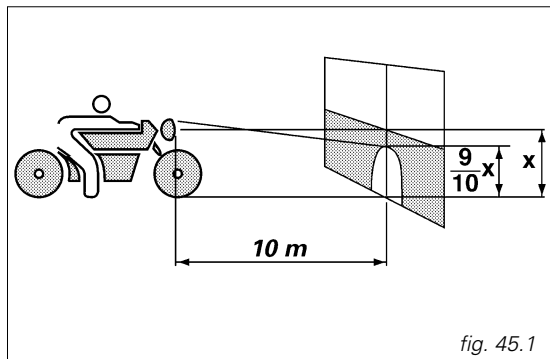
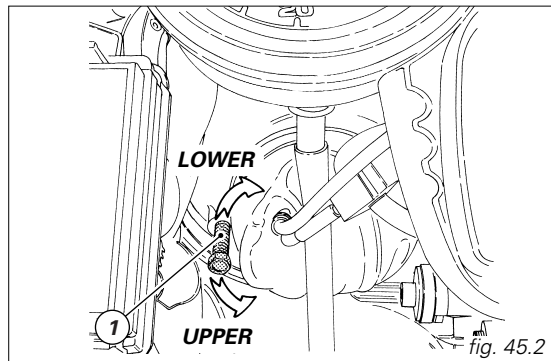


Note

The procedure described here is in compliance with the "Italian Standard" establishing the maximum height of the light beam. Owners in other countries will adapt said procedure to the provisions in force in their countries.

The height of the light beam can be corrected using the screw (1, fig. 45.2) on the left side of the headlamp. Remove the left side guard of the instrument panel to expose the screw. Turn the screw clockwise to lower the beam, anticlockwise to raise it.

The side position of the headlamp is adjusted using the adjusting screw (2, fig. 45.3) on the right side of headlamp. Remove the right side guard of the instrument panel (see page 40) to expose the screw. Turn the screw clockwise to move the beam to the right, anticlockwise to move it to the left.



Tyres

Tyre pressure

Rider + luggage

Front:

2.1 bar - 2.3 Kg/sq cm

Rear:

2.2 bar - 2.4 Kg/sq cm

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Rider + passenger + luggage

Front:

2.4 bar - 2.5 Kg/sq cm

Rear:

2.8 bar - 2.9 Kg/sq cm

As tyre pressure is affected by temperature and altitude variations, you are advised to check and adjust it whenever you are riding in areas where ample variations in temperature or altitude occur.



Important

Check and set tyre pressure when tyres are cold.

To avoid front wheel rim distortion, when riding on bumpy roads, increase front tyre pressure by 0.2 - 0.3 bar.

Tyre repair or replacement

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

A tyre must be replaced when punctured. 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.



Important

Do not remove or shift the wheel balancing weights.



Note

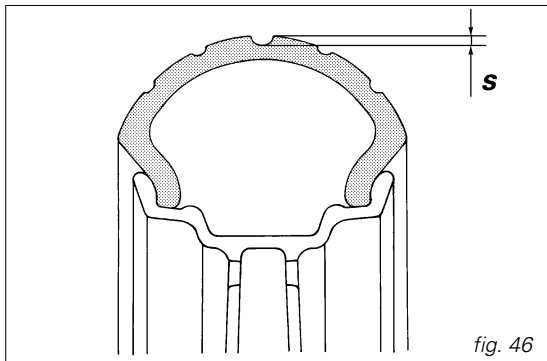
If tyres need replacing, contact a Ducati Dealer or authorized workshop to make sure wheels are removed and refitted correctly.

Minimum tread depth

Measure tread depth (S, fig. 46) at the point where tread is most worn down. It should not be less than 2 mm and anyway not below 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.



Checking engine oil level (fig. 47)

Engine oil level can be checked through the sight glass (1) provided on the clutch cover.

When checking oil level, the motorcycle should be upright and the engine warm.

Allow a few minutes for oil to settle to a steady level after stopping the engine.

Oil level should be between the marks near the sight glass.

Top up oil level with SHELL Advance Ultra 4, if low.

Undo the filler plug (2) and top up to correct level.

Refit the plug.

Important

Engine oil and oil filters must be changed by a Ducati dealer or authorized workshop at regular intervals, as specified in the routine maintenance chart (see Warranty Card).

Viscosity

SAE 10W-40

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.

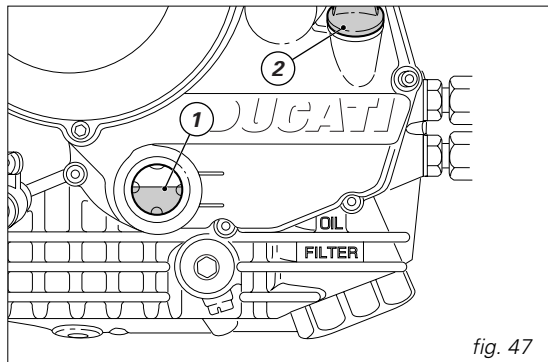
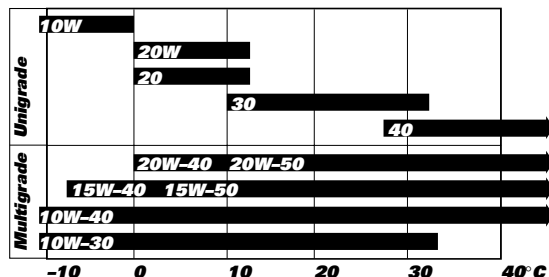


fig. 47



Cleaning and replacing the spark plugs (fig. 48)

Spark plugs are essential to smooth engine running and should be checked at regular intervals. This is done quite easily and quickly and provides a good measure of engine condition.

Remove the l.h. fairing, remove the spark plug caps from the cylinder head using the wrench supplied with the bike.

Check the color of the insulating ceramic material of the central electrode: a light brown, even color is a sign of good engine condition. If color has altered or you find any dark deposits, change the spark plug and report this to your Dealer or authorized workshop.

Check wear on the central electrode. If it looks worn out or has a vitreous appearance, change the spark plug.

Check electrode gap: it should be 0.6-0.7 mm.

Important

If the gap needs adjusting, be very careful when bending the side electrode. If gap is too wide or too close, engine performance will be affected. This could also cause difficult starting or irregular idling. Clean the electrode and the insulating material accurately using a small metal brush and check seal condition. Clean the seat in the cylinder head. Be careful not to let any foreign matters fall into the combustion chamber. Refit spark plug into cylinder head. Snug it finger-tight until it is fully seated into the head. Tighten the spark plug to 20 Nm.

If you do not have a torque wrench, you can use the wrench supplied with the tool kit to tighten the spark plug an additional 1/2 turn.

Important

Never use spark plugs with a heat rating other than recommended or a thread length other than standard. Spark plugs should be tightened properly.

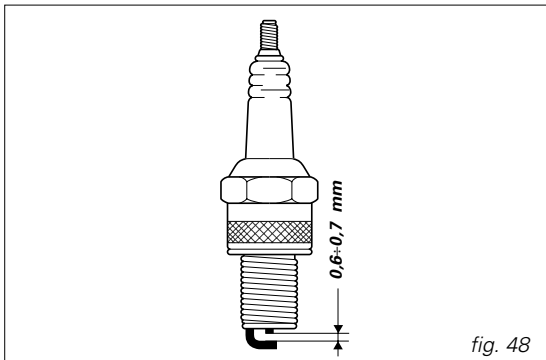


fig. 48

Cleaning the motorcycle

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.

Important

Do not wash your motorcycle right after use. When the motorcycle is still hot, water drops will evaporate faster and spot hot surfaces.

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

Cleaning the motorcycle with water cleaners may lead to seizure or severe failure of front fork, wheel hub assembly, electric system, front fork seals, air inlets or exhaust silencers and adversely affect the operation of motorcycle safety features.

Clean off stubborn dirt or exceeding grease from engine parts using a degreasing agent. Be sure to avoid contact with drive parts (chain, 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. Loss of braking and further accidents may occur. Clean the discs with an oil-free solvent.

Storing the bike away

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;

remove tank drain plug and seal and drain all fuel from tank;

pour a few drops of engine oil into the cylinders through the spark plug seats, then crank the engine by hand a few times so a protective film of oil will spread on cylinder inner walls;

place the motorcycle on the service stand;

disconnect and remove the battery. Battery should be checked and charged whenever the motorcycle has been left unriden for over a month;

protect the motorcycle with a suitable canvas available from Ducati Performance. This will protect paintwork and let condensate breathe out.

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.

It is the Owner's responsibility to have any parts not in compliance with the standards in force in his/her country replaced with spare parts complying with local law.

TECHNICAL DATA

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Overall dimensions (mm) (fig. 49)

Weights

Dry weight:

212 Kg (ST2); 215 Kg (ST4).

Carrying full load:

420 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.

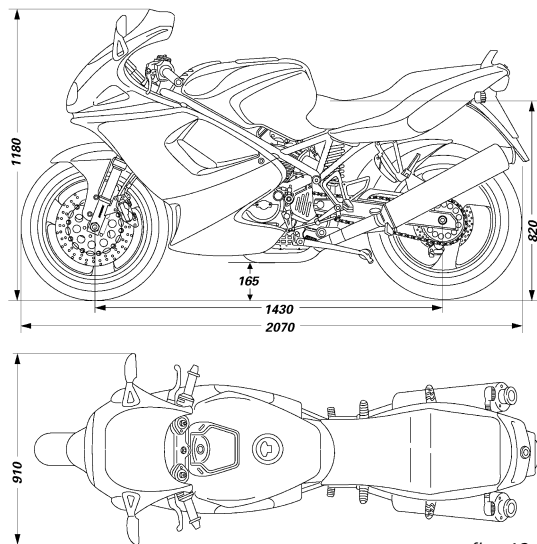


fig. 49

Top-ups	Type of fluid	cu dm(liters)
<i>Fuel tank, including a reserve of 4 cu dm (liters).</i>	<i>Unleaded Gasoline (w/original octane rating of at least 95)</i>	<i>21</i>
<i>Oil sump and oil filter</i>	<i>SHELL Advance Ultra 4</i>	<i>3.4 (ST2) 3.8 (ST4)</i>
<i>Front/Rear brake and clutch circuits</i>	<i>Special fluid for hydraulic systems SHELL-Advance Brake DOT 4</i>	<i>—</i>
<i>Protectant for electric contacts</i>	<i>Spray for electric systems SHELL-Advance Contact Cleaner</i>	<i>—</i>
<i>Front fork</i>	<i>SHELL-Advance Fork 7.5 or Donax TA</i>	<i>0.492 (each leg)</i>
<i>Cooling circuit</i>	<i>Antifreeze SHEEL – Advance Coolant or Glycoshell 35-40% + water</i>	<i>3.5</i>



Important

Additives to fuel or lubricants are not allowed.

Engine

Twin cylinder, four-stroke, 90° "L" type, longitudinal.

Bore:

94 mm

Stroke:

68 mm

Total displacement:

944 c.c.

Compression ratio:

1:10.2±0.5

Max. power at crankshaft (95/1/CE):

61 kW – 83 HP at 8500 rpm

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

82 Nm at 6500 rpm

Max. rotation speed

9000 rpm

**Important**

Do not exceed specified rotation speed limits under any running condition.

Timing system

Desmodromic (type) with two valves per cylinder, operated by four rockers (2 opening rockers and 2 closing rockers) and an overhead camshaft. It is operated by the crankshaft through spur gears, belt rollers and toothed belts.

Desmodromic timing system (fig. 50)

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

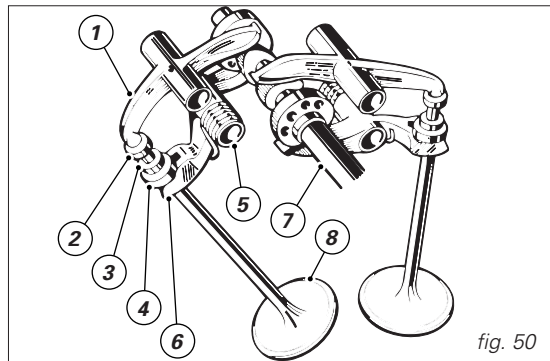


fig. 50

Engine

Twin cylinder, four-stroke, 90° "L" type, longitudinal.

Bore:

94 mm

Stroke:

66 mm

Total displacement:

916 c.c.

Compression ratio:

1:11.0±0.5

Max. power at crankshaft (95/1/CE):

78.6 kW – 107 HP at 9500 rpm

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

84 Nm at 7250 rpm

Max. rotation speed

10,000 rpm



Important

Do not exceed specified rotation speed limits under any running condition.

Timing system

Desmodromic (type) with four valves per cylinder, operated by eight rockers (4 opening rockers and 4 closing rockers) and an overhead camshaft. It is operated by the crankshaft through spur gears, belt rollers and toothed belts.

Desmodromic timing system (fig. 50)

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

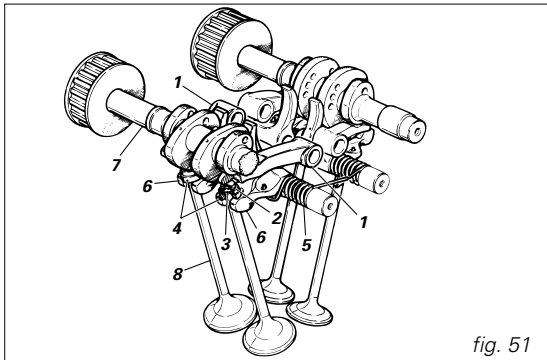


fig. 51

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.

Max. speed (rider alone):

225 Km/h (ST2); 245 Km/h (ST4).



Spark plugs

Make:

CHAMPION

Type:

RA 4 HC (ST2)

RA 59 GC (ST4).

Brakes

Front brake

With double floating drilled disc.

Material:

steel

Disc diameter:

320 mm

Hydraulically operated by a control lever on right handlebar.

Braking surface:

88 sq cm

Brake calipers with separate pistons.

Make:

BREMBO

Type:

30/34-4 pistons

Friction material:

FERIT I/D 450 FF (ST2); TOSHIBA TT2802 (ST4).

Master cylinder type:

PS 16.

Rear brake

With fixed drilled steel disc.

Disc diameter:

245 mm

Hydraulically operated by a pedal on RH side.

Braking surface:

25 sq cm

Make:

BREMBO

Type:

P 34 (ST2); P 32 (ST4).

Friction material:

FERIT I/D 450 FF

Master cylinder type:

PS 11.



Warning

Brake fluid can dissolve paintwork and cause severe eye and skin injuries in the event of accidental spilling. Wash the affected area with abundant running water.

Transmission

*Dry clutch operated by a control lever on left handlebar.
Drive is transmitted from engine to gearbox main shaft
via spur gears.*

Gear ratio:

32/59.

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

Front/rear sprocket ratio:

15/42 (ST2); 15/43 (ST4).

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 28/24

Drive chain from gearbox to rear wheel:

Make:

DID

Type:

525 HV.

Size:

5/8"x1/16"

Links:

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If you wish to tune up your motorcycle for competitive trials, you may refer to Ducati Motor Holding S.p.A. who will be glad to provide information about the special ratios available. Relevant instructions and original spare parts are available from your local Dealer or authorized workshop.



Warning

If the rear sprocket needs replacing, contact a Ducati Dealer or an authorized workshop. If improperly replaced, this component could seriously endanger your safety and that of your passenger, and cause irreparable damage to your motorcycle.

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Important

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

Frame

Tubular trellis frame with upper section made of high-strength steel.

Steering angle (on each side):

30°

Headstock angle:

24°

Trail:

102 mm

Tyres**Front tyre**

Tubeless, radial tyre.

Size:

120/70-ZR17.

Rear tyre

Tubeless, radial tyre.

Size:

170/60-ZR17 (ST2);

180/55-ZR17 (ST4).

Wheels

Three-spoke, light-alloy rims.

Front wheel

Make:

BREMBO

Dimensions:

3.50x17"

Rear wheel

Make:

BREMBO

Dimensions:

5.50x17"

Both wheel spindles can be removed.

Suspensions

Front

Hydraulic upside-down fork provided with outer adjuster for rebound, compression, and preload (for inner springs of fork legs).

Stanchion diameter mm:

43 mm

Travel along leg axis:

130 mm

Rear

Of the progressive type, thanks to a rocker arm connecting frame and upper pivot point of the shock absorber and an arch connected at the bottom to swingarm. The shock absorber enables the adjustment of rebound and compression damping and spring preload.

At the bottom pivot point it is connected to a steel swingarm. The swingarm hinges on a pivot pin passing through the frame and engine. The whole system gives the bike excellent stability.

Travel:

65 mm

Rear wheel travel:

148 mm

Available colours

ST2 model

Ducati anniversary red code 473.101;

Ducati metallic blue code 291.800;

Ducati metallic grey code 291.601.

Ducati yellow code 473.201.

ST4 model

Ducati anniversary red code 473.101;

Ducati metallic blue code 291.800;

Ducati yellow code 473.201.

Metal - color rims & frame

Electric system

Basic electric items are:

Headlamp consisting of the following:

12V-55W low beam unit, poly-ellipsoidal with capacitor;

12V-55W high beam unit

12V-5W parking light.

Instrument panel, 12V-1.2W warning lights; **12V-2W** and **3W** instrument lights.

Electrical controls on handlebar.

Turn indicators, 12V-10W bulbs.

Horn.

Stop light switches.

Battery 12V-10 Ah.

Generator 12V-520W.

Electronic voltage regulator (rectifier), protected by a **40 A** fuse.

Starter motor, 12V-0.7 kW.

Tail light, 12V-5/21W double-filament bulb for stop light and parking light; **12V-5W** bulb for number plate light.



Note

See "Replacing bulbs" on page 51 for relevant instructions.

Fuses

The main fuse box (fig. 51.1) is located on the frame left side, behind the headlamp.

To access the fuse box, remove the left side guard of the instrument panel (see page 40).

To expose the fuses, take off the box protective cover (1). Mounting position and ampere capacity are marked on box cover.

7 fuses are connected to the system. There is one spare fuse.

Three fuses (fig. 51.2) placed behind the control unit protect the relays of the injection system. Their ratings are: 7.5 A (A); 20 A (B); 5 A (C).

The fuse located on a side of the battery (fig. 51.3) protects the electronic regulator. Remove the fuse cap (2) to expose it.

A blown fuse is identified by the interrupted inner filament (3, fig. 51.4).



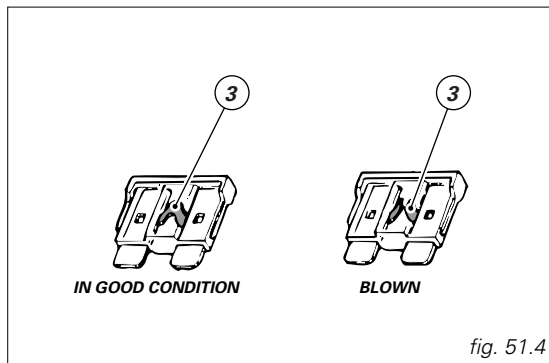
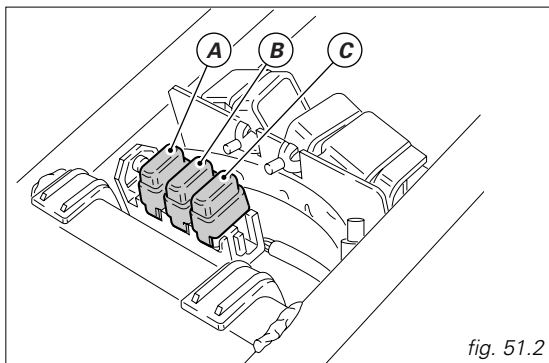
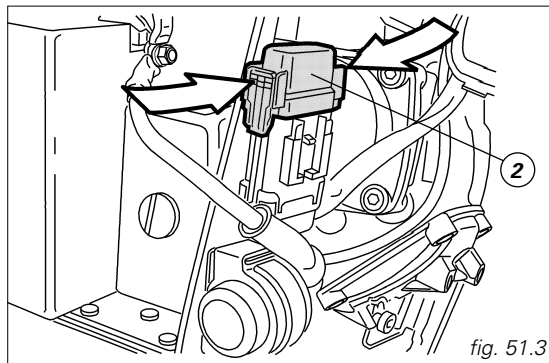
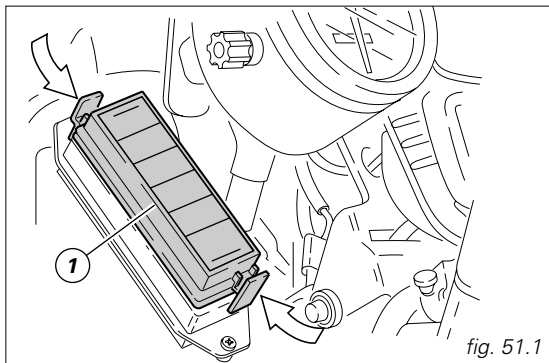
Important

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



Warning

Never use a fuse with a rating other than specified. Failure to observe this rule may damage the electric system or even lead to fire.



Legend of the wiring diagram of electric system/ignition

- 1) Right switch
- 2) Key-operated switch
- 3) Ignition relay
- 4) Fuse box
- 5) Turn indicator flasher
- 6) Lights relay
- 7) Starter motor
- 8) Starter contactor
- 9) Battery
- 10) Water temperature sensor
- 11) Electric fan relay
- 12) Electric fan
- 13) Rear right-turn indicator
- 14) Tail light
- 15) Number plate light
- 16) Rear left-turn indicator
- 17) Power outlet
- 18) Fuel tank
- 19) Diagnosis connector
- 20) Horizontal cylinder coil
- 21) Vertical cylinder coil
- 22) Horizontal cylinder spark plug
- 23) Vertical cylinder spark plug
- 24) Horizontal cylinder injector
- 25) Vertical cylinder injector
- 26) Throttle position sensor
- 27) Engine rpm/timing sensor
- 28) Coolant temperature sensor
- 29) Injection/ignition unit
- 30) Injection relay fuses
- 31) Horn
- 32) Regulator fuse
- 33) Regulator
- 34) Generator
- 35) Stand light switch
- 36) Neutral light switch
- 37) Oil pressure switch
- 38) Rear stop light switch
- 39) Front stop light switch
- 40) Left switch
- 41) Air pressure sensor
- 42) Air temperature sensor
- 43) Instrument panel
- 44) LCD
- 45) Front left-turn indicator
- 46) Headlamp
- 47) Front right-turn indicator
- 48) Safety relay

Wire color coding

P Pink

GR-Bk Grey-Black

Y-G Yellow-Green

G Green

R-G Red-Green

W-R White-Red

O-Bk Orange-Black

V-Bk Violet-Black

Y Yellow

W-B White-Blue

BN Brown

G-W Green-White

O-W Orange-White

R-Bk Red-Black

R-B Red-Blue

GR-R Grey-Red

R Red

G-Bk Green-Black

V Violet

Y-Bk Yellow-Black

GR Grey

G-B Green-Blue

Lb Light blue

Bk Black



Note

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

Legend of fuse box

Pos.	Description	Rat.
A-1	Main switch	30 A
B-2	High and low beams	15 A
C-3	Turn indicators, warning lights, tail lights and instrument panel lights	7.5 A
D-4	Stop, warning horn	7.5 A
E-5	Display	3A
F-6	Right switch	7.5 A
G-7	Power outlet	3 A
H-8	Spare	3 A

FOR UNITED STATES OF AMERICA VERSION ONLY

USA

Reporting of safety defects

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Ducati North America. If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Ducati North America. To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

Safety warnings

Traffic Rules vary from jurisdiction to jurisdiction. Know the regulations in your jurisdiction before riding this motorcycle.



Warning

This motorcycle is designed and intended for use on streets and other smooth, paved areas only. Do not use this motorcycle on unpaved surfaces. Such use could lead to upset or other accident.

Noise emission warranty

Ducati Motor S.p.A. warrants that this exhaust system, at the time of sale, meets all applicable U.S. EPA Federal noise standards. This warranty extends to the first person who buys this exhaust system for purposes other than resale, and to all subsequent buyers. Warranty claims should be directed to: Ducati North America, Inc., 237 West Parkway, Pompton Plains, New Jersey, 07444-1028 Tel: 001.973.839-2600 • Fax: 001.973.839-2331.

Noise and exhaust emission control system information

Source of Emissions

The combustion process produces carbon monoxide and hydrocarbons. Control of hydrocarbons is very important because under certain conditions, they react to form photochemical smog when subjected to sunlight. Carbon monoxide does not react in the same way, but is toxic. Ducati utilizes lean carburetor settings and other systems to reduce carbon monoxide and hydrocarbons.

Exhaust Emission Control System

The Exhaust Emission Control System is composed of lean carburetor settings, and no adjustments should be

made except idle speed adjustments with the throttle stop screw. The Exhaust Emission Control System is separate from the crankcase emission control system.

Crankcase Emission Control System

The engine is equipped with a closed crankcase system to prevent discharging crankcase emissions into the atmosphere. Blow-by gas is returned to the combustion chamber through the air cleaner and the throttle body.

Evaporative Emission Control System

California motorcycles are equipped with an evaporative emission control system which consists of a charcoal canister and associated piping. This system prevents the escape of fuel vapors from the throttle body and fuel tank.

Tampering warning

Tampering with Noise Control System Prohibited. Federal Law prohibits the following acts or causing thereof:

- (1) the removal or rendering inoperative by any person, other than for purposes of maintenance, repair, or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; or*
- (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.*

Among those acts presumed to constitute tampering are the acts listed below:

- (1) Removal of, or puncturing the muffler, baffles, header pipes or any other component which conducts exhaust gases.*
- (2) Removal or puncturing of any part of the intake system.*
- (3) Lack of proper maintenance.*
- (4) Replacing any moving part of the vehicle, or parts of the exhaust or intake system, with parts other than those specified by the manufacturer.*

This product should be checked for repair or replacement if the motorcycle noise has increased significantly through use. Otherwise, the owner may become subject to penalties under state and local ordinances.

Problems that may affect motorcycle emissions

If you are aware of any of the following symptoms, have the vehicle inspected and repaired by your local Ducati dealer.

Symptoms:

Hard starting or stalling after starting.

Rough idle.

Misfiring or backfiring during acceleration.

After-burning (backfiring).

Poor performance (driveability) and poor economy.



Riding safety

The points given below are applicable for every day motorcycle use and should be carefully observed for safe and effective vehicle operation.

A motorcycle does not provide the impact protection of an automobile, so defensive riding in addition to wearing protective apparel is extremely important.

Do not let protective apparel give you a false sense of security.

Before changing lanes, look over your shoulder to make sure the way is clear. Do not rely solely on the rear view mirror; you may misjudge a vehicle's distance and speed, or you may not see it at all.

When going up steep slopes, shift to a lower gear so that there is plenty of power to spare rather than overloading the engine.

When applying the brakes, use both the front and rear brakes. Applying only one brake for sudden braking may cause the motorcycle to skid and lose control.

When going down long slopes, control vehicle speed by closing the throttle. Use the front and rear brakes for auxiliary braking.

Riding at the proper rate of speed and avoiding unnecessarily fast acceleration are important not only for safety and low fuel consumption but also for long vehicle life and quieter operation.

When riding in wet conditions or on loose roadway surfaces, the ability to maneuver will be reduced. All of your actions should be smooth under these conditions. Sudden acceleration, braking or turning may cause loss of control.

When the roadway is wet, rely more on the throttle to control vehicle speed and less on the front and rear brakes.

The throttle should also be used judiciously to avoid skidding the rear wheel from too rapid acceleration or deceleration.

On rough roads, exercise caution, slow down, and grip the fuel tank with your knees for better stability.

When quick acceleration is necessary as in passing, shift to a lower gear to obtain the necessary power.

Do not down shift at too high an r.p.m. to avoid damage to the engine from overrevving.

Avoiding unnecessary weaving is important to the safety of both the rider and other motorists.

Do not exceed the legal speed limit or drive too fast for existing conditions. High speed increases the influence of any condition affecting stability and the loss of control. Operate motorcycle only at moderate speed and out of traffic until you have become thoroughly familiar with its operation and handling characteristics under all conditions. This is a very high performance motorcycle, designed and intended for use by experienced careful riders only!

A new motorcycle must be operated according to a special break-in procedure (see Running in recommendations).



Warning

Before starting engine, check for proper operation of brake, clutch, shifter, throttle controls, correct fuel and oil supply.

Label location (fig. B)

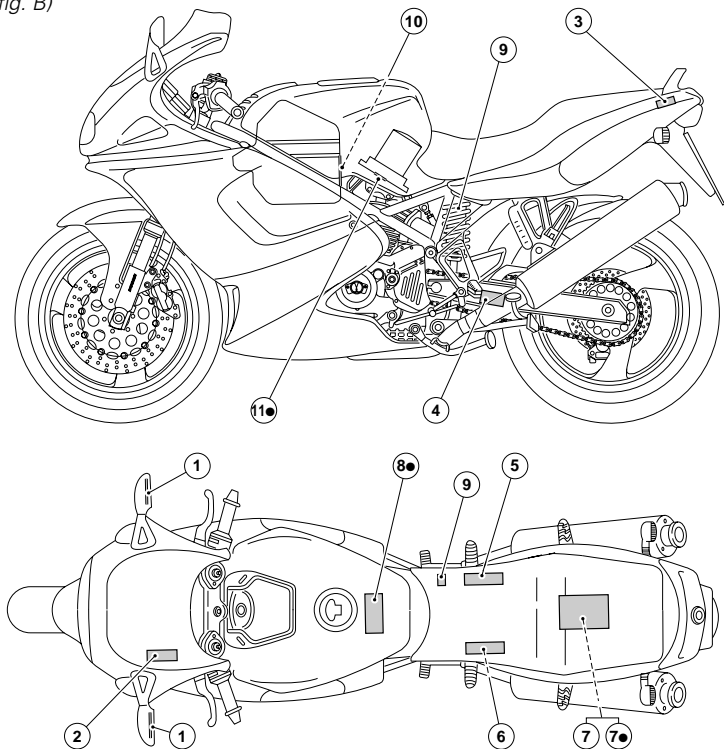


fig. B

OBJECT IN MIRROR ARE CLOSER THAN THEY APPEAR

1

WARNING
DO NOT ATTEMPT TO LOOK THROUGH THIS FAIRING. THIS IS NOT A WINDSHIELD, BUT AN AERODYNAMIC FAIRING ONLY. FAILURE TO OBSERVE THIS WARNING COULD RESULT IN A COLLISION OR UPSET AND CONSEQUENT SERIOUS BODILY INJURY.

2

HELMET HOLDER UNDER THE SEAT

3

Tensione catena (sul cavalletto centrale)
Chain Tension Adjustment (on centre stand)



4

MOTORCYCLE NOISE EMISSION CONTROL INFORMATION

THIS [REDACTED] MOTORCYCLE, [REDACTED] MEETS EPA NOISE EMISSION REQUIREMENTS OF [REDACTED] dBA AT [REDACTED] RPM BY THE FEDERAL TEST PROCEDURE. MODIFICATIONS WHICH CAUSE THIS MOTORCYCLE TO EXCEED FEDERAL NOISE STANDARDS ARE PROHIBITED BY FEDERAL LAW. SEE OWNER'S MANUAL.

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5

Manufactured by **DUCATI** MOTOR spa

DA7 [REDACTED] 7/97

GVWR: [REDACTED] Lbs [REDACTED] kg
CAVR front: [REDACTED] Lbs [REDACTED] kg with [REDACTED] tire, [REDACTED] RIM at [REDACTED] cold.
CAVR rear: [REDACTED] Lbs [REDACTED] kg with [REDACTED] tire, [REDACTED] RIM at [REDACTED] cold.
This vehicle conforms to all applicable Federal Motor Vehicle Safety standards in effect on the date of manufacture shown above. Type classification: Motorcycle

Vehicle I.D. No.: ZDM1TB9PXWB00001

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VEHICLE EMISSION CONTROL INFORMATION

Engine displacement: 944 cc
Engine family: WDUC0944ST2
Engine exhaust control system [REDACTED]

THIS VEHICLE CONFORMS TO U.S. EPA REGULATIONS APPLICABLE TO 1998 MODEL YEAR NEW MOTORCYCLES

ENGINE TUNE-UP SPECIFICATIONS

ITEM	SPECIFICATIONS	INSTRUCTIONS
IGNITION TIMING: IDLE SPEED (RPM): IDLE MIXTURE:	<p>■ bTDC at idle speed</p> <p>■ ± 0.12 mm</p>	<p>No adjustment</p> <p>No adjustment</p> <p>No adjustment</p>
VALVE CLEARANCE (in & ex):	<p>Opening [REDACTED] mm</p> <p>Closing [REDACTED] mm</p>	See Service Manual
SPARK PLUG: CHAMPION [REDACTED] SPARK PLUG GAP (mm): 0.5 ± 0.6	<p>OIL: SAE 20W/50</p> <p>FUEL: Unleaded gasoline</p>	

DUCATI MOTOR spa - BOLOGNA - ITALY

7

VEHICLE EMISSION CONTROL INFORMATION

Engine displacement: 944 cc
Engine family: WDUC0944ST2
Engine exhaust control system [REDACTED]
Evap family: [REDACTED]

THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA REGULATIONS APPLICABLE TO 1998 MODEL YEAR NEW MOTORCYCLES AND IS CERTIFIED TO 1+ HC GEM ENGINE FAMILY EXHAUST EMISSION STANDARD IN CALIFORNIA

ENGINE TUNE-UP SPECIFICATIONS

ITEM	SPECIFICATIONS	INSTRUCTIONS
IGNITION TIMING: IDLE SPEED (RPM): IDLE MIXTURE:	<p>■ bTDC at idle speed</p> <p>■ ± 0.12 mm</p>	<p>No adjustment</p> <p>No adjustment</p> <p>No adjustment</p>
VALVE CLEARANCE (in & ex):	<p>Opening [REDACTED] mm</p> <p>Closing [REDACTED] mm</p>	See Service Manual
SPARK PLUG: CHAMPION [REDACTED] SPARK PLUG GAP (mm): 0.5 ± 0.6	<p>OIL: SAE 20W/50</p> <p>FUEL: Unleaded gasoline</p>	

DUCATI MOTOR spa - BOLOGNA - ITALY

70

CAUTION

NEVER FILL TANK SO FUEL LEVEL RISES INTO FILLER NECK. IF TANK IS OVERFILLED, HEAT MAY CAUSE FUEL TO EXPAND AND FLOW INTO EVAPORATIVE EMISSION CONTROL SYSTEM RESULTING IN HARD STARTING AND ENGINE HESITATION.

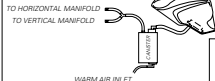
80

WARNING
CONTAINS HIGHLY COMPRESSED GAS. USE ONLY PERFECTLY DRY NITROGEN GAS. OTHER GASES MAY CAUSE EXPLOSION. DO NOT INCINERATE. REFER TO

9

VEHICLE EMISSION CONTROL LABEL

ENGINE DISPLACEMENT - 944 cc. ENGINE FAMILY - [REDACTED]
THIS VEHICLE CONFORMS TO U.S. EPA AND CALIFORNIA REGULATIONS APPLICABLE TO 1998 MODEL YEAR NEW MOTORCYCLES.
EVAP FAMILY: [REDACTED]



DUCATI MOTOR spa
Via A.C. Ducati, 3
40132 BOLOGNA
ITALY

100

CANISTER

110

California evaporation emission system

This system consists of (fig. C):

- 1) Warm air inlet;
- 2) Canister;
- 3) Dell'Orto jet;
- 4) Intake manifolds;
- 5) Breather pipe;
- 6) Fuel tank.

Important

In the event of fuel system malfunction, contact Ducati's authorized Service Centres.

Ducati limited warranty on emission control system

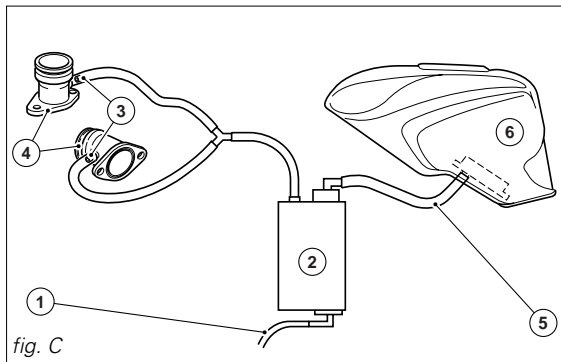
Ducati North America, Inc., 237 West Parkway, Pompton Plains, New Jersey 07444-1028 warrants that each new 1998 and later Ducati motorcycle, that includes as standard equipment a headlight, tail-light and stoplight, and is street legal:

A) is designed, built and equipped so as to conform at the time of initial retail purchase with all applicable regulations of the United States Environmental Protection Agency, and the California Air Resources Board; and

B) is free from defects in material and workmanship which cause such motorcycle to fail to conform with applicable regulations of the United States Environmental Protection Agency or the California Air Resources Board for a period of use, depending on the engine displacement, of 12,000 kilometers (7,456 miles), if the motorcycle's engine displacement is less than 170 cubic centimeters; of 18,000 kilometers (11,185 miles), if the motorcycle's engine displacement is equal to or greater than 170 cubic centimeters but less than 280 cubic centimeters; or of 30,000 kilometers (18,641 miles), if the motorcycle's engine displacement is 280 cubic centimeters or greater; or 5 (five) years from the date of initial retail delivery, whichever first occurs.

I. Coverage

Warranty defects shall be remedied during customary business hours at any authorized Ducati motorcycle dealer located within the United States of America in



compliance with the Clean Air Act and applicable regulations of the United States Environmental Protection Agency and the California Air Resources Board. Any part or parts replaced under this warranty shall become the property of Ducati.

In the state of California only, emissions related warranted parts are specifically defined by that state's Emissions Warranty Parts List. These warranted parts are: carburetor and internal parts; intake manifold; fuel tank, fuel injection system; spark advance mechanism; crankcase breather; air cutoff valves; fuel tank cap for evaporative emission controlled vehicles; oil filler cap; pressure control valve; fuel/vapor separator; canister; igniters; breaker governors; ignition coils; ignition wires; ignition points, condensers, and spark plugs if failure occurs prior to the first scheduled replacement, and hoses, clamps, fittings and tubing used directly in these parts. Since emission related parts may vary from model to model, certain models may not contain all of these parts and certain models may contain functionally equivalent parts.

In the state of California only, Emission Control System emergency repairs, as provided for in the California Administrative Code, may be performed by other than an authorized Ducati dealer. An emergency situation occurs when an authorized Ducati dealer is not reasonably available, a part is not available within 30 days, or a repair is not complete within 30 days. Any replacement part can be used in an emergency repair. Ducati will reimburse the owner for the expenses, including diagnosis, not to exceed Ducati's suggested retail price for all warranted

parts replaced and labor charges based on Ducati's recommended time allowance for the warranty repair and the geographically appropriate hourly labor rate. The owner may be required to keep receipts and failed parts in order to receive compensation.

II. Limitations

This Emission Control System Warranty shall not cover any of the following:

A. Repair or replacement required as a result of

(1) accident,

(2) misuse,

(3) repairs improperly performed or replacements improperly installed,

(4) use of replacement parts or accessories not conforming to Ducati specifications which adversely affect performance and/or

(5) use in competitive racing or related events.

B. Inspections, replacement of parts and other services and adjustments required for routine maintenance.

C. Any motorcycle on which odometer mileage has been changed so that actual mileage cannot be readily determined.

III. Limited liability

A. The liability of Ducati under this Emission Control Systems Warranty is limited solely to the remedying of defects in material or workmanship by an authorized Ducati motorcycle dealer at its place of business during customary business hours. This warranty does not cover inconvenience or loss of use of the motorcycle or



transportation of the motorcycle to or from the Ducati dealer. Ducati shall not be liable for any other expenses, loss or damage, whether direct, incidental, consequential or exemplary arising in connection with the sale or use of or inability to use the Ducati motorcycle for any purpose. Some states do not allow the exclusion or limitation of any incidental or consequential damages, so the above limitations may not apply to you.

B. No express emission control system warranty is given by Ducati except as specifically set forth herein. Any emission control system warranty implied by law, including any warranty of merchantability or fitness for a particular purpose, is limited to the express emission control systems warranty terms stated in this warranty. The foregoing statements of warranty are exclusive and in lieu of all other remedies. Some states do not allow limitations on how long an implied warranty lasts so the above limitation may not apply to you.

C. No dealer is authorized to modify this Ducati Limited Emission Control Systems Warranty.

IV. Legal rights

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

V. This warranty is in addition to the Ducati limited motorcycle warranty.

VI. Additional information

Any replacement part that is equivalent in performance

and durability may be used in the performance of any maintenance or repairs. However, Ducati is not liable for these parts. The owner is responsible for the performance of all required maintenance. Such maintenance may be performed at a service establishment or by any individual. The warranty period begins on the date the motorcycle is delivered to an ultimate purchaser.

Ducati North America, Inc..
237 West Parkway
Pompton Plains, New Jersey, 07444-1028
001.973.839-2600

ROUTINE MAINTENANCE RECORD

<i>km/miles</i>	<i>Ducati Service Name</i>	<i>Mileage</i>	<i>Date</i>
<i>1,000</i>			
<i>10,000</i>			
<i>20,000</i>			
<i>30,000</i>			
<i>40,000</i>			
<i>50,000</i>			



