

PAMPERA 400-06

MANUAL DEL USUARIO

USER MANUAL

MANUEL D'ENTRETIEN

LIBRETTO D'USO

BETRIEBSANLEITUNG

GAS GAS

GAS GAS

PAMPERA 400-06

USER MANUAL

Foreword

GAS GAS thanks you for the trust you have placed in us.

By choosing a new PAMPERA 400 2006 you have become part of the great GAS GAS family and, as a user of the number one manufacturer of off-road motorbikes, you deserve to receive the best treatment we can offer you both in our post-sales relations and in the explanations we offer in this manual.

Our PAMPERA 400 2006 motorcycle has been designed for your enjoyment. In fact, it is the result of many years of competition and experience in this highly demanding discipline and of the many excellent results obtained by the great riders who have supplied the basic data to enable us to develop these excellent motorbikes, GAS GAS exclusive models with certain key advantages: reliability, high performance and good stability.

Congratulations, because your choice has been, without doubt, the correct one. With skill at the commands of this motorbike, an adequate preparation and the corresponding essential servicing this GAS GAS will remain highly reliable and you will be able to enjoy the most comfortable and rewarding motor sport.

Thank you for your confidence and welcome to GAS GAS motos SA.

IMPORTANT NOTICE

Read this Manual carefully. This manual covers aspects that will contribute to your security and to that of others, as well as guaranteeing a correct conservation and maintenance of this GAS GAS motorcycle you have just acquired.

All of the necessary instructions for the correct driving and handling of this vehicle are set out below. Each message will be preceded by a symbol.

WARNING

This warning symbol identifies special instructions or procedures that, if not correctly followed, could result in personal injury, or even death.

CAUTION

This caution symbol identifies special instructions or procedures that, if not strictly observed, could result in damage to or destruction of equipment.

NOTE

This symbol indicates points of particular interest for more efficient and convenient operation.

Inadequate driving skill could cause problems to the environment and conflict with other people. Responsible use of your motorcycle will ensure that these problems and conflicts do not occur.

TO PROTECT THE FUTURE OF YOUR SPORT, MAKE SURE YOU USE YOUR BIKE LEGALLY, WITH CONCERN FOR THE ENVIRONMENT, AND RESPECT THE RIGHTS OF OTHER PEOPLE.

Driving motorbikes is a fantastic sport, and we hope you enjoy it to the full.

GAS GAS

USE OF OIL RECOMMENDED:



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GENERAL INFORMATION**ENGINE**

Motor	4 stroke, single-cylinder DOHC 4 valves, liquid cooled
Displacement in cubic centimetres	449 cc
Bore and stroke	97 x 60.76 mm
Spark plug	NGK CR8E or DENSO U24ESR-N
Fuel supply	Dell'Orto PHF 36 Carburettor

TRANSMISIÓN

Transmission type	6 speed
Clutch type	Oil bath, multi-disk hydraulic action
Secondary transmission	By chain
Gear ratio	1st 2.071(29/14) 2nd 1.625(26/16) 3rd 1.333(24/18) 4th 1.100(22/20) 5th 0.913(21/23) 6th 0.791(19/24)
Primary reduction ratio	2.85(57/20)
Final reduction ratio	3.231 (42/13)
Overall drive ratio	7.289(6th gear)
Transmission oil	1000 cc
Capacity	10W50 API SF or SG
Type	

CHASSIS

Type	DELTABOX, semi double cradle chassis made from rectangular Cromoly tubes. Aluminium rocker	
Tyre sizes	Front	90/90 x 21
	Rear	120/90 x 18

Suspension	Front	Marzocchi ø'bf 45mm telescopic fork.
Suspension stroke	Rear	Progressive system with SACHS single shock absorber
	Front	202 mm
	Rear	320 mm
Front suspension oil		MARZOCCHI SAE 7.5
Front fork oil level		Marzocchi: 200 mm (compressed, without spring)

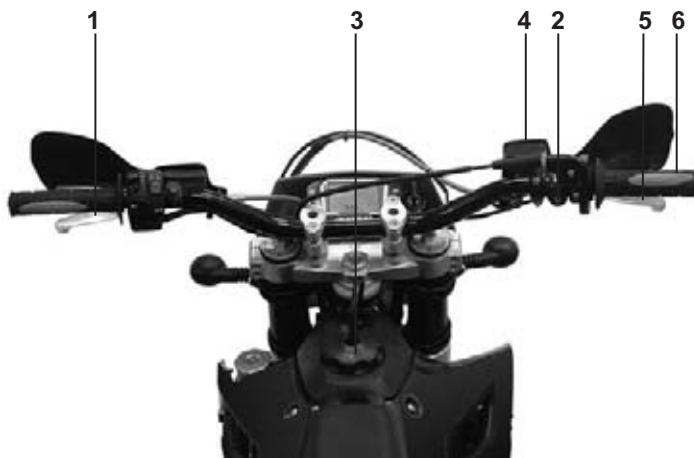
BRAKES		
Type	Front / rear	Disk brakes, AJP pump and simple / double callipers.
Effective disk diameter	Front	260 mm
	Rear	220 mm

DIMENSIONS	
Overall height	1,120 mm
Overall length	2,135 mm
Overall width	820 mm
Wheel base	1,450 mm
Minimum ground clearance	300 mm
Fuel tank capacity	7.2 litres
Weight	119 Kg.

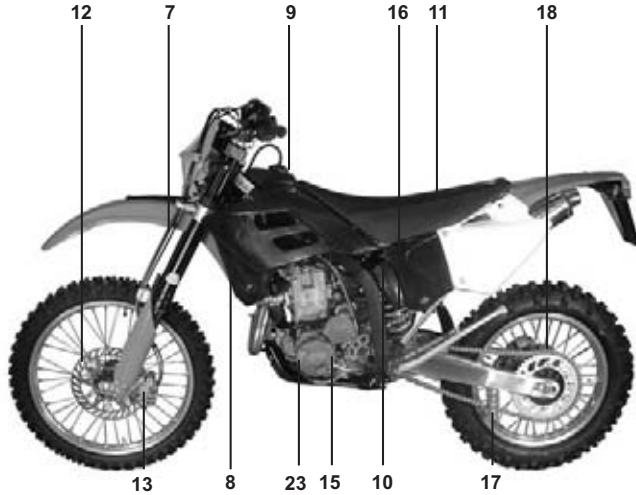
(Specifications subject to change without notification, also possibly not applicable in some countries).

LOCATION OF COMPONENTS

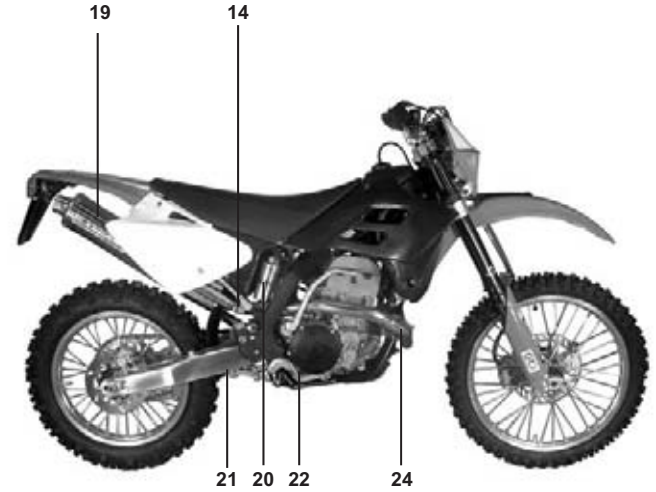
GAS GAS PAMPERA 400



- 1- Clutch handle
- 2- Engine start button
- 3- Fuel tank cap
- 4- Front brake fluid tank
- 5- Front brake handle
- 6- Throttle control



- 7- Front suspension
- 8- Radiator
- 9- Fuel tank
- 10- Air filter
- 11- Seat
- 12- Front brake disk
- 13- Front brake callipers
- 14- Rear brake fluid tank
- 15- Shift pedal

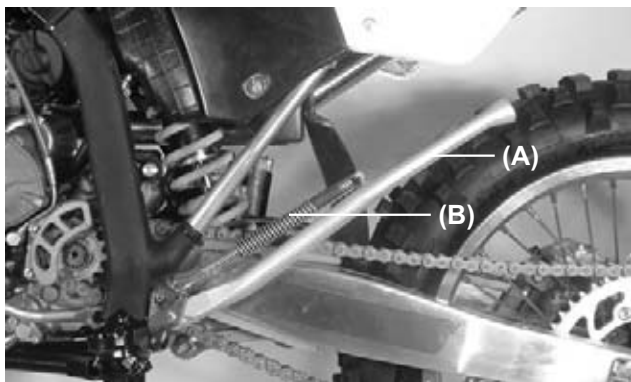


- 16- Rear shock absorber
- 17- Chain guide
- 18- Chain
- 19- Silencer
- 20- Rear shock absorber gas tank
- 21- Tie rod and rocker suspension
- 22- Rear brake pedal
- 23- Engine oil cap
- 24- Exhaust bend

SIDE STAND

To unfold side stand (A), open to vertical position.

The stand returns to its original position with the aid of the spring (B).



(A). Side stand.
(B). Spring.

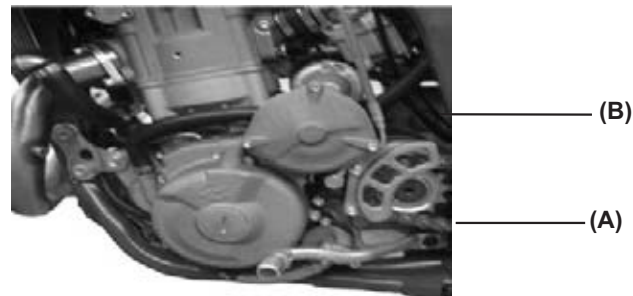
NOTE

Do not start the engine or ride the motorcycle when the side stand is down. Always engage the security strap before driving the motorcycle.

PETROL

The GAS GAS PAMPERA 400 has a four stroke engine and requires 98 octane, unleaded petrol.

Fuel Tank Capacity
7.4 L



(A). Fuel cap.
(B). Fuel vent hose.

To open the fuel cap (A), release the fuel vent hose (B) from the handlebar and rotate the fuel cap in an anti-clockwise direction.

To close the fuel cap, rotate it in a clockwise direction.

RECOMMENDED FUEL

Use lead-free petrol with an octane rating equal to or higher than that shown in the table.

OCTANE RATING METHOD	MINIMUM OCTANE RATING
Antiknock Index (RON+MON)/2	90
Research Octane No. (RON)	98

NOTE

If knocking occurs, try a different brand of gasoline or higher octane grade.

WARNING

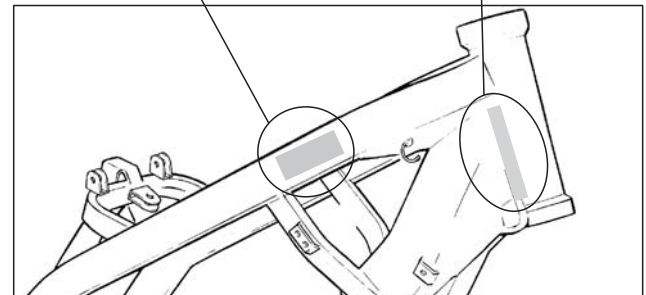
Gasoline is extremely flammable and can be explosive under certain conditions. Always stop the engine and do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

SERIAL NUMBER

Printed on the steering tube. Indicates the frame number with which the motorcycle is registered.

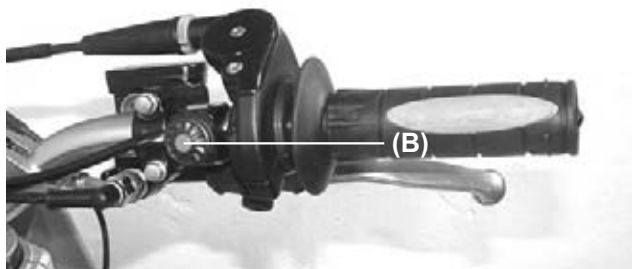
Qualification approval plate

The motorcycle is fitted with its own corresponding qualification approval plate with the serial number, also printed on the steering tube and whose data also coincides with that in the documents.



STARTING THE ENGINE

- Ensure that the motorcycle is in neutral.
- Rotate the starter key clockwise (ON **(A)** position), in this way the electric circuits are active and the engine can start.



- Without using the throttle, press the electric start button **(B)**.

Stopping the engine

- Change gear to neutral.
- Then release the throttle completely and rotate the ignition key anti-clockwise.



- The key should point left **(D)**, this means that all of the electric circuits are inactive. The engine cannot start.
- The key may be extracted from the ignition.

NOTE

Starting the engine while the key is being turned to the ON position may cause a loss in battery power.

STARTING WHEN THE ENGINE IS COLD

The cold start function is responsible for aiding the engine start if this is cold.

After some minutes, the engine will be at normal operating temperature. The engine will reach its optimal temperature, in low time and without causing damage.

NOTE

- *If the engine is flooded then start with the throttle fully open.*
- *The motorcycle may be started in gear if the clutch is disengaged.*

STARTING THE ENGINE

- 1.- Ensure that the motorcycle is in neutral.
- 2.- Turn the fuel tap key clockwise to "ON"
- 3.- If the engine is cold, pull out the choke
- 4.- Press the starter button to start the motorbike.
- 5.- Even after the engine has started, leave the choke out.

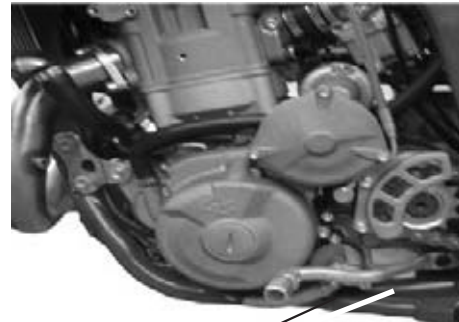
SHIFTING GEARS

The transmission is a 6 speed, return shift type meaning that to go back to first gear from a higher gear, you must shift back through the gears one by one.

To engage first gear from neutral, pull in the clutch lever and push down on the shift pedal then release the pressure on the shift pedal and gently release the clutch lever.

CAUTION

When changing gears, press firmly on the shift pedal to ensure complete, positive shifting. Careless, incomplete shifts can cause the transmission to jump out of gear and lead to engine damage.



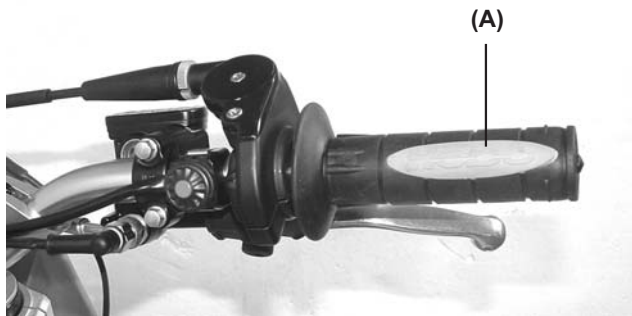
(B)

(B). Shift pedal.

STOPPING THE MOTORCYCLE

For maximum deceleration, release the throttle (A) and apply both front and rear brakes. Disengage the clutch as the motorcycle comes to a stop. Independent use of the front or rear brake may be advantageous under certain conditions.

Downshift progressively as speed is reduced to ensure good engine response when you want to accelerate.



BREAK-IN

To obtain the proper operating clearances in the engine and transmission that are necessary for smooth engine performance and reliability, an initial break-in must be completed. For the first hour or 100 Km of operation, run the engine at a low and medium speed.

NOTE

The slow speed necessary during the break-in period may cause carbon to build up on the spark plug and soil it. If, on inspecting the spark plug, this is seen to be the case, replace the standard spark plug with a higher heat grade spark plug for the duration of the running-in period.

Break-in following these steps:

1. Start the engine and let it run at idle until the engine is thoroughly warmed up.
2. Stop and let the engine cool completely
3. Start the engine and ride for 10 minutes at moderate speed. NEVER ACCELERATE FULLY.
4. Stop and let the engine cool completely. Check and adjust the chain and spokes and carry out a general inspection.
5. Start the engine and ride for 20 minutes at moderate speed. NEVER ACCELERATE FULLY.
6. Stop and let the engine cool completely. Check and adjust (4).
7. Fit the inspected parts.
8. Fill the radiator up completely with cooling liquid. Before starting the engine bleed the air from the cooling system.
9. Start the engine and ride for 30 minutes at moderate speed.
10. Stop and let the engine cool completely. Check and adjust (4).
11. After the run-in procedure has been properly carried out, the motorcycle is ready to be ridden normally.

CAUTION

In any case, even an imprudent acceleration can cause engine trouble, take special care and use the proper skills and techniques required for correct driving of the motorcycle.

NOTE

Following the break-in, fit a new standard spark plug.

MAINTENANCE CHART			
Article	Period First 5 hours	Period Every 30 hours	Period Every 60 hours
Air filter	Inspect each time that the motorcycle has run or when necessary		
*Exhaust connectors and bolts	T	T	T
*Valve tolerances	I	-	I
Spark plug	-	I	R
Fuel pipes	I	I	I
	*Change every 4 years		
Engine oil and filter oil	R	R	R
*Engine oil pipes	I	I	I
Coolant	-	I	I
	Change every 2 years		
Radiator hoses	I	I	I
Clutch	I	I	I
Chain	Clean, lubricate and inspect each time the motorcycle has been ridden		
*Brakes	I	I	I
Brake lines	I	I	I
	*Revise every 4 years		
Brake liquid	I	I	I
	*Change every 2 years		
Tyres	Inspect tyres for damage and check the tyre pressure every time the motorcycle has run		
*Steering assembly	I	-	I
*Front forks	I	-	I
*Rear suspension	I	-	I
*Chassis bolts and nuts	T	T	T

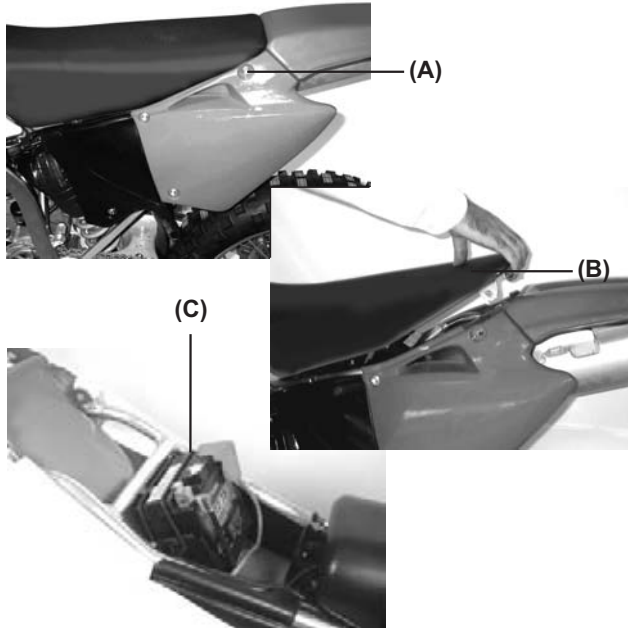
I NOTE: I = Inspect and clean, adjust, replace or lubricate as necessary; R = Replace, T = Tighten, C = Clean

BATTERY

This battery is maintenance free and checking the fluid level is not required.

It is advisable to check the charge of the battery periodically

To remove the battery, follow these steps:



1. Remove the screws (A) and remove the seat (B).
2. Release the rubber (C).

3. Disconnect the terminals ensuring that they do not enter into contact with metal parts then extract the battery.

WARNING

Hydrogen gas produced by the battery may explode if exposed to open flame or sparks.
Keep the area ventilated and free from naked flames.

The operating instructions for the battery are as follows:

1. Check the battery voltage in open circuit status (disconnected).
2. In case the battery's tension is below 12.60 V, or if the storage period has exceeded 6 months, the battery has to be recharged following the instructions in paragraph 3.

If the battery voltage is above 12.60 V, the battery can be installed on the vehicle without having to recharge it.

- 3.1. Constant voltage charge mode.
 - Constant voltage = 14.40 - 14.70V
 - Initial charge current = 0.1 – 0.5 Cn
 - Charge duration = 6 hours minimum / 24 hours maximum.
- 3.2. Constant power charge mode.
 - Maximum charge current = 0.1 Cn

- Recommended charge time = 5 - 8 hours.
- The product (charge current) X (charge duration) must be within the range: 0.5 – 0.8 Cn

Note

In case that a different mode of charging is used to those established here, never exceed the maximum allowed currents nor the maximum charge duration of 24 hours.

CAUTION
Not using the standard manner of charging may seriously shorten the battery life. Never exceed the standard charge.

CAUTION
Inverting the polarity of the battery terminals may cause battery charge problems and cause damage to the battery system. The red terminal is positive (+) and the black terminal is negative (-).

COOLING SYSTEM

Radiator hose

Check the radiator hoses for cracks or deterioration, and connections for leaks.

Radiator

Check the radiator fins for obstruction by insects or mud. Clean off any obstructions with a stream of low-pressure water.

CAUTION
Using a high-pressure water source could damage the radiator fins and render them ineffective. Do not obstruct or deviate the radiator air intake by installing non-approved accessories. Interfering with the radiator could cause overheating and result in engine damage.

Coolant

This absorbs excessive heat from the engine and transfers it to the air at the radiator. If the coolant level becomes low, the engine overheats and may suffer severe damage. Check the coolant level each day before riding the motorcycle. Replenish coolant if the level is low.

WARNING
To avoid burns, do not remove the radiator cap or try to change the coolant when the engine is still hot. Wait for it to cool down.

Anti-freeze liquid information

To protect the cooling system aluminium parts (engine and radiator) from rust and corrosion, the use of corrosion and rust inhibitor chemicals in the coolant is essential. If coolant containing corrosion and rust inhibitor chemicals is not used, over a period of time, the radiator will rust.

This will block the cooling hoses.

CAUTION

Use of incorrect coolant solutions will cause severe engine and cooling system damage.

Use coolant containing corrosion inhibitors made specifically for aluminium engines and radiators in accordance with the instructions of the manufacturer.

WARNING

Coolant chemicals are harmful to the human body. Follow coolant manufacturer warnings and coolant handling instructions.

CAUTION

Soft or distilled water must be used with the inhibitor chemicals and the antifreeze in the cooling system.

If normal water is used in the system, the cooling system tubes may become blocked.

If the lowest ambient temperature encountered falls below the freezing point of water, protect the cooling system against freezing.

Use a permanent type of anti-freeze (soft water and ethylene glycol plus corrosion and rust inhibitor chemicals for aluminium engines and radiators) in the cooling system.

For the coolant mixture ratio under extreme conditions, choose the mixture ratio listed on the container for the lowest ambient temperature.

Coolant Level

- Situate the motorcycle so that it is perpendicular to the ground.
- Remove the radiator cap in two stages. First turn the cap anti-clockwise and wait for a few seconds. Then push and turn it further in the same direction to remove the cap.

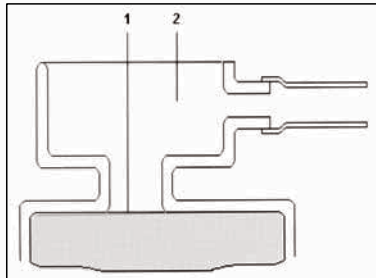
**(A). Radiator Cap.****CAUTION**

Permanent types of antifreeze on the market have anticorrosion and anti-rust properties. When over-diluted, antifreeze loses its antifreeze and anti-corrosive properties.

It should be diluted in accordance with manufacturer instructions.

NOTE

Check the level when the engine is cold.



(1). Coolant level.
(2). Filler opening.

If the coolant level is low, add the correct amount of coolant through the filler opening.

Recommended liquid

Permanent type of antifreeze (distilled water and ethylene glycol) with corrosion and rust inhibitor chemicals for aluminium engines and radiators).

NOTE

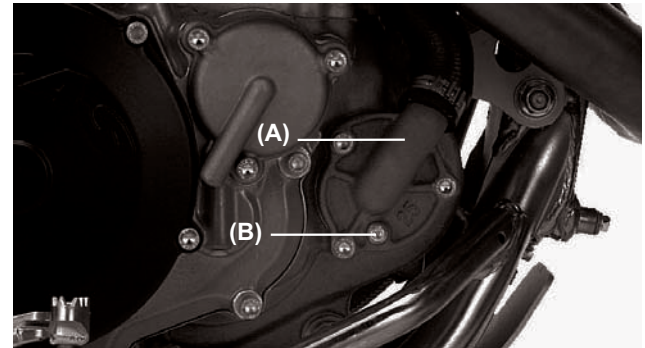
Initially a permanent type of antifreeze is installed in the cooling system by the manufacturer. This is green and contains 50% ethylene glycol and freezes at a temperature of -35°bcC.

Total quantity

Mix antifreeze and distilled water 1:1 (distilled water 50%, antifreeze 50%).

Changing the coolant

- The coolant should be changed periodically to ensure long engine life..
- Wait for the engine to cool completely.
- Situate the motorcycle so that it is perpendicular to the ground.
- Remove the radiator cap.
- Place a container under the coolant drain plug, and drain the coolant from the radiator and engine by removing the drain plug at the bottom of the water pump cover. Immediately wipe or wash off any coolant that spills on the frame, engine, or wheels.



(A). Water pump cover
(B). Coolant drain Plug.

WARNING

Coolant on tires will make them slippery and can cause an accident and injury.

-Inspection of the coolant. If white cotton-like patches appear in the liquid then this means that the aluminium elements of the cooling system are corroded. If the liquid is brown then this means that the steel or iron parts of the system are oxidized. In either case clean out the system.

- Check the cooling system for damage, loose joints, or leaks.
- Install the water pump cover drain plug and cylinder drain plug with the specified torque shown in the table. Replace seals with new ones.

Bolt torques:
Water pump plug: 9 Nm.

- Fill the radiator up to the edge and install the radiator cap.
- Check the cooling system for leaks.
- Start the engine, warm up the engine, and then stop it.
- Check the coolant level after the engine cools down. Add coolant up to the bottom of the radiator filler neck.

SPARK PLUG

The standard spark plug is shown in the table and is tightened to 11 Nm.

Standard spark plug

NGK CR8 E or DENSO U24ESR-N 0.7-0.8 mm.

The spark plug should be taken out periodically to check the electrode gap. If the plug is oily or has carbon build up on it the clean it with a sand blaster. Following abrasive particle cleaning, the spark plug should be cleaned with a wire brush or similar. Measure the distance

between electrodes using a gauge and adjust in case that it is not correct by bending the outer electrode. If the spark plug electrodes are oxidised, damaged or the insulation is broken then replace the plug.

NOTE

Inspect every 30 hours. Replace every 60 hours.

To find the correct heat grade spark plug is being used, take it out and examine the insulation around the electrode. If the ceramic is light brown, the spark plug is correctly matched to engine temperature. If the ceramic is white, the plug should be replaced with the next coldest plug. If the ceramic is black, the plug should be replaced with the next hottest plug.

NOTE

If the engine output decreases, replace the spark plug to regain performance.

Spark plug maintenance

NGK	DENSO	COMMENTS
CR9E	U22ESR-N	If the standard spark plug appears to be crystallised or is a white colour, it should be replaced.
CR8E	U24ESR-N	Standard
CR7E	U27ESR-N	If the standard spark plug is wet then replace it.

CAUTION

Incorrect fitting of the spark plug or using an incorrect heat grade could cause serious engine damage that is not covered by the guarantee.

Always use spark plugs recommended by GAS GAS. Consult the dealers or a qualified mechanic to know which spark plug is better for your bike.

Removing the spark plug

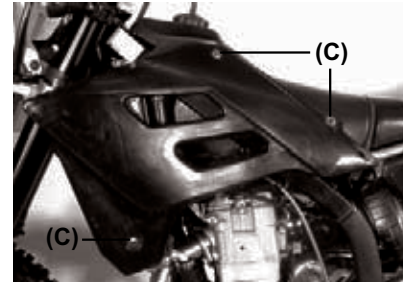
To remove the spark plug, follow the following steps:



1. Remove the bolts (A)
(right and left).

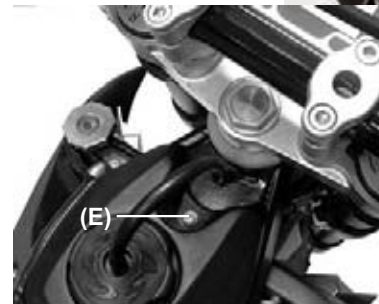
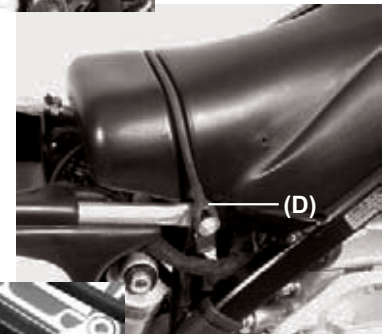


2. Remove the seat (B).



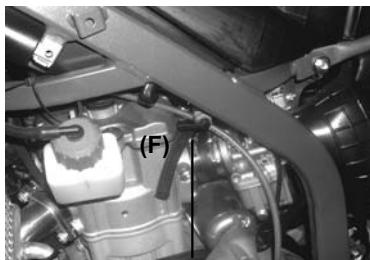
3. Remove the bolts (C)
(right and left).

4. Remove the
rubber attachment
on the tank (D).



5. Remove the
reservoir securing
bolt (E).

6. Switch off the tap (F).



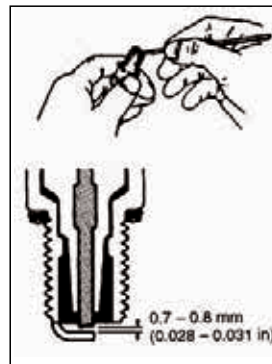
7. Remove the spark plug cap.

NOTE

*A cap protects the spark plug.
Keep this clean and dry.*

WARNING

Fuel spillages may occur on removing the fuel tap hose. Stop the engine before removing the tank. Keep naked flames and sparks away from the tank cap. Do not smoke.



9. Remove the spark plug and clean the carbon deposits on the plug using a wire brush.

Readjust the electrode spacing to between 0.7 – 0.8 mm. (0.028 – 0.031 in).

Before removing the carbon deposits, check its colour; this colour tells us whether the standard plug is the best for our use.

AIR FILTER

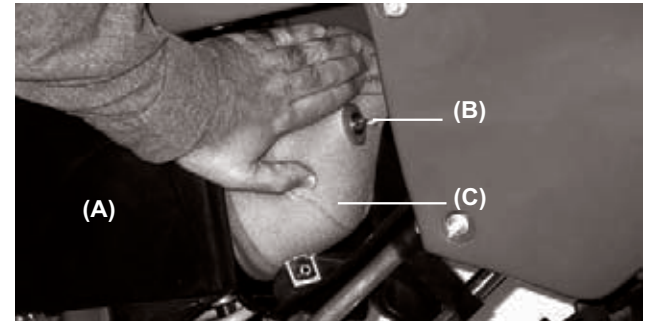
An obstructed air filter restricts the air intake of the engine, increasing the petrol consumption and reducing the engine power as well as the destruction of the spark plug.

CAUTION
An obstructed air filter will allow dirt to enter the engine causing excess wear and engine damage.

Always check the filter at the start and end of every day.

Cleaning the air filter

WARNING
Clean the filter in a well-ventilated zone and ensure that there are no sources of naked flame or sparks near the work area (including the focus of a powerful light). Do not use petrol to clean the filter as this could result in an explosion.



- Take off the cover (A).
- Remove bolt (B) and take out filter (C).

- Stuff a clean, lint-free towel into the carburettor to prevent dirt from entering the carburettor.

CAUTION
Do not turn the filter, as this is easily damaged or scratched.

- Clean inside the filter housing using a damp cloth.



- Remove the cage (B) from the air filter (A).

- Clean the filter in a bath filled with filter cleaning fluid using a soft brush.



- Squeeze it and take it out with a clean cloth. Do not touch or air the filter again, as this may damage it.

- Check the air filter for damage such as scraping, hardening, shrinkage...If it is damaged then replace, otherwise dirt will enter the throttle body.
- Grease all of the connections and bolts of the air filter and inlets.

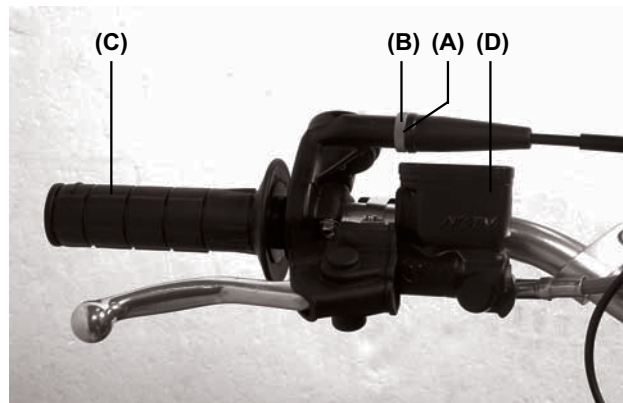


- Fit the filter in the cage and cover the filter lip (A) with a thick layer of grease to ensure a good seal and to prevent dirt from entering.

- Fit the air filter to the motorcycle and ensure that it is correctly connected.

THROTTLE CABLE

- Check that the throttle grip turns smoothly
- Check that the throttle grip has 2-3 mm of play.
- If the play is incorrect, loosen the locknut on the upper end of the throttle cable, and turn the adjuster to obtain the correct amount of play.
- Tighten the locknut.



- (A). Adjustment.
- (B). Lock nut.
- (C). Throttle grip.
- (D). Brake fluid reservoir.

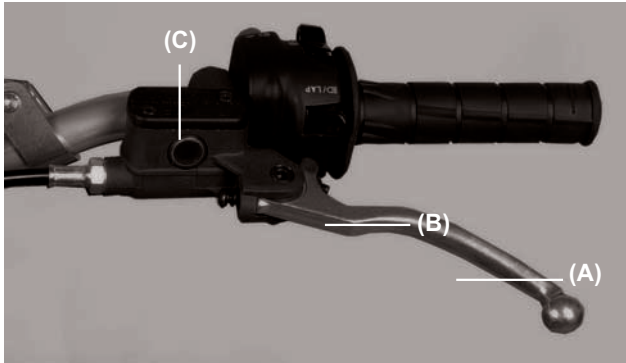
- If the play can not be established by adjusting the cable, remove the cable protection from the carburettor, adjust this using a tensioning device at the end of the cable, tighten the lock nut and refit the protection.

CLUTCH

Proper clutch lever play is 2-3 mm.

When there is too much play, first try to adjust the level of the clutch lever.

Tighten the adjustment bolt to obtain the optimal play.



- (A). Clutch Lever.
- (B). Clutch cylinder piston rod.
- (C). Hydraulic fluid tank.

If the clutch lever adjustment is at its limit, it should be adjusted using the clutch cylinder piston rod.

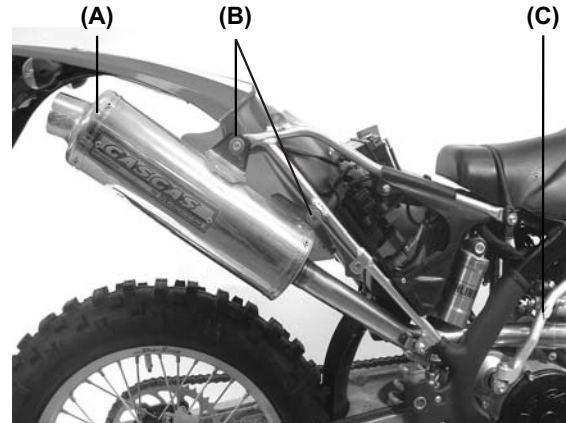
THE EXHAUST SYSTEM

The exhaust and the silencer reduce noise and carry the gasses away from the driver.

If the exhaust is damaged, rusted, dented or split then change it. Change the silencer packing if the noise begins to be too loud or if the engine performance drops.

Changing the silencer

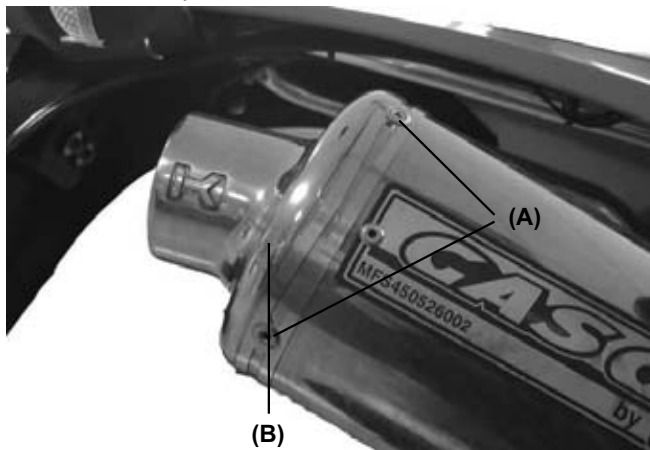
1. Remove the right side number carrier cover.
2. Release the exhaust flange.



- (A). Silencer
- (B). Silencer attachment bolts.
- (C). Clamp

Changing the silencer packing

- Remove the cover rivets (A).
- Extract the silencer cover (B).
- Pull out the inner silencer.
- Change the silencer packing by wrapping around the inner tube.
- Refit the assembly.



(A). Rivets.
(B). Cover.

CHAIN GUIDE

The drive chain must be checked, adjusted, and lubricated in accordance with the Periodic Maintenance table in order to prevent excessive wear. If the chain is worn or badly adjusted (to tight or loose) then it may jump off the sprockets or break.

WARNING

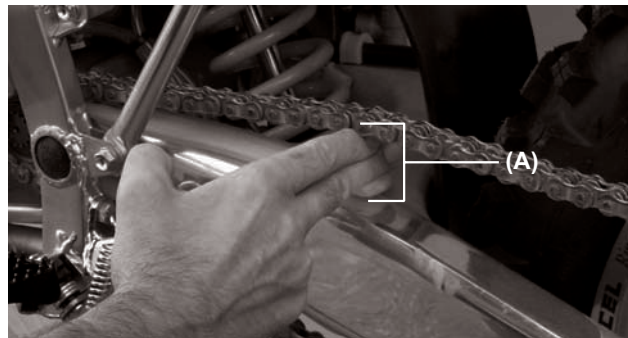
A chain that breaks or jumps off the sprockets could snag on the engine sprocket or lock the rear wheel, severely damaging the motorcycle and causing it to go out of control.

Checking tension

The space between the chain and the swing arm at the rear of the chain slider should be 30-50 mm. Rotate the rear wheel to find the place where the chain is tightest. Adjust the drive chain if it has too much or too little slack.

NOTE

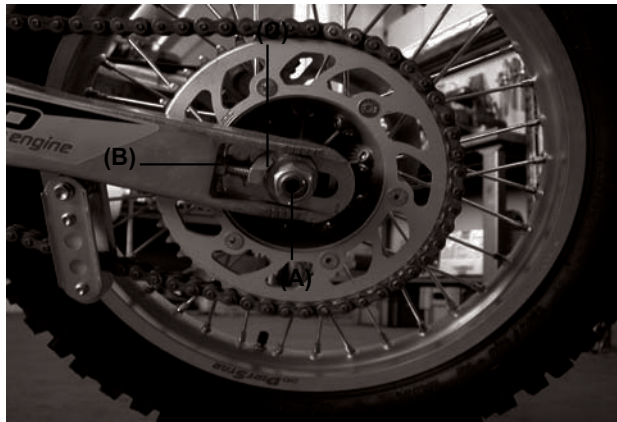
In muddy or humid conditions, the mud gets inside the chain increasing tension and may cause the chain to break. To prevent this, adjust the chain to 30-50 mm of space between the chain and rocker arm whenever necessary.



In addition to checking the slack, rotate the rear wheel to inspect the drive chain and sprockets for damaged rollers, loose pins and links, unevenly or excessively worn and damaged teeth.

Tension adjustment

- Loosen the rear axle nut.
- Turn the nuts on the chain adjusting bolts evenly until there is 30-50 mm of space between the chain and the rocker arm. To keep the chain and wheel aligned, the adjustment on the left of the chain should be equal to that on the right.



(A). Rear axle.
 (B). Adjustment nut.
 (C). Chain adjustment.

NOTE

Wheel alignment can also be checked using the straightedge or string method.

WARNING

Misalignment of the wheel will result in abnormal wear and may result in an unsafe riding condition.

- Tighten the chain adjustment nuts.
- Tighten the axle nut to 98 N-m.
- Rotate the wheel, measure the chain slack again at the tightest position, and readjust if necessary.

WARNING

If the rear axle nut is not securely tightened this may lead to unsafe riding conditions.

Drive chain, chain guide, chain slide, and rear sprocket

When the chain has worn so much that it is more than 2% longer than when new, it is no longer safe for use and should be replaced. Whenever the chain is replaced, inspect both the engine pinion and rear sprocket, and replace them if necessary. Worn teeth will cause the chain to wear more quickly.

NOTE

For maximum resistance and safety, a genuine part must be used for replacement.

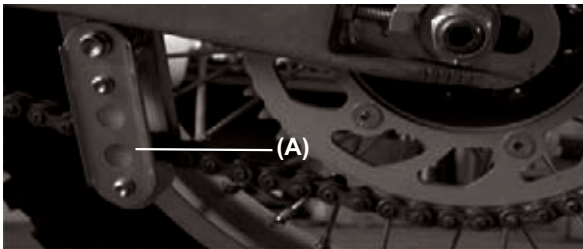
To minimise the risk of the principal connection coming loose, the principal clip should be fitted with the closed part of the "U" in the direction of the chain rotation.



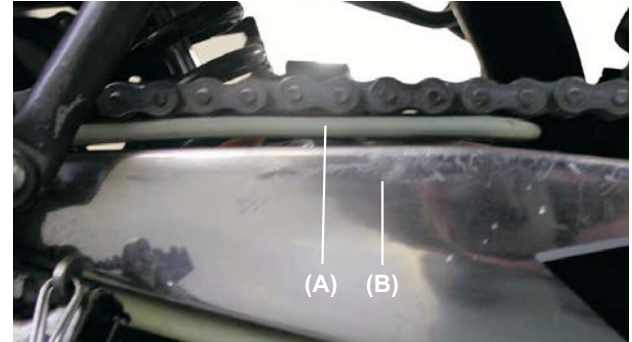
(A). Clip.
(B). Chain direction of rotation.

Chain Wear Guide

Visually inspect the drive chain wear guide (A); If the guide is worn excessively or damaged, replace it.

**Chain Guide Slide**

Visually inspect the upper and lower part of the chain slider on the swing arm. If this is worn then replace it.



(A). Chain guide slide.
(B). Rocker arm.

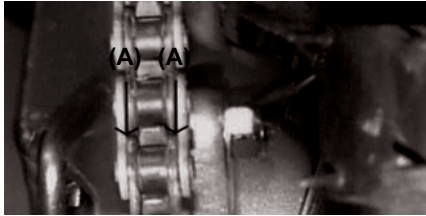
Pinion and sprocket teeth wear

Visually inspect the pinion and sprocket teeth. If they are worn or damaged, replace the pinion or sprocket.

Lubrication

Lubrication is necessary after riding through rain or in the mud, or any time that the chain appears dry. A high viscosity oil is preferable to a low viscosity oil because it will remain on the chain for a longer time, thus providing improved lubrication.

Oil the sides of the rollers to enable oil to better penetrate inside. Wipe off any excess oil.

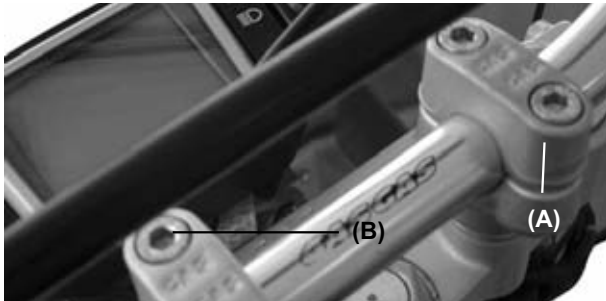


(A). Oil.

HANDLEBARS

To suit various riding positions, the handlebar position can be adjusted front to rear.

Handlebar position adjustment



Loosen bolts (B) on the handlebar clamp (A) and set the handlebar to the required position.

Tighten the bolts, first the front bolts and then the rear bolts to a torque of 25 Nm. If the handlebar is correctly installed, there will be a minimal gap at the front and rear of the clamp after tightening (A).

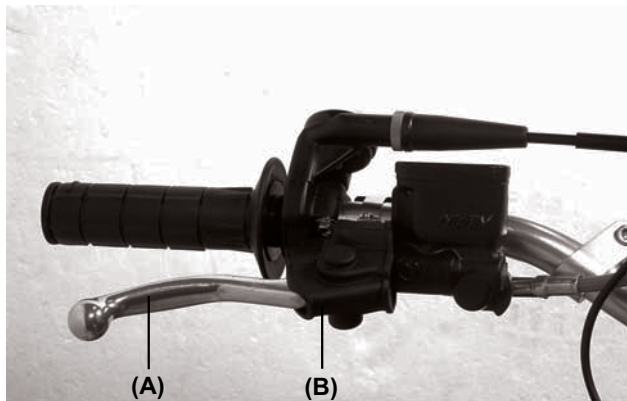


BRAKES

Disc and disc pad wear is automatically compensated for and has no effect on the brake lever or pedal action. So there are no parts that require adjustment on the brakes except brake lever play and the brake pedal position and play.

Play in front brake lever

Adjust brake lever to a comfortable position. To adjust, loosen the nut under the rubber protection (B). Tighten after adjustment. Ensure that the brake responds correctly.

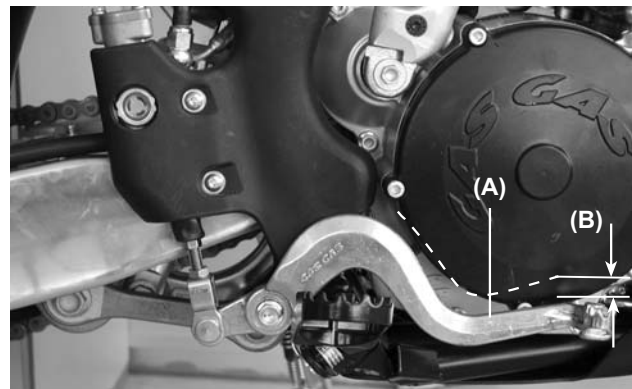


(A). Brake lever.
(B). Rubber protection.

Rear brake pedal

When the brake pedal is in rest position, there should be a play of 10 mm. If not, then adjust this.

Ensure that the brake responds correctly and does not rub. To adjust the pedal play, loosen the locknut, rotate the bolt and retighten the locknut.



(A). Brake pedal.
(B). 10 mm of play.

WARNING

If the brake lever or pedal feels mushy when it is applied, there might be air in the brake lines or the brake may be defective. Since it is dangerous to operate the motorcycle under such conditions, check the brakes immediately.

Brake fluid

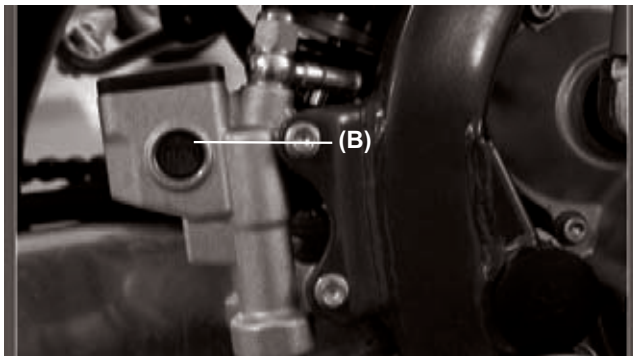
Regularly check the brake fluid and periodically change it. It should also be changed if it appears to be contaminated with water or dirt.

Recommended liquid

Use D.O.T 3 or D.O.T 4

Fluid level inspection

The front (A) and rear (B) reservoirs must be kept more than half full with brake fluid. If the amount of brake fluid is insufficient, add brake fluid.



CAUTION

Do not spill brake fluid onto any painted surface. Do not use fluid from a container that has been left open or that has been unsealed for a long time. Check for fluid leakage around the fittings. Check for brake line damage.

WARNING

Do not mix brands of fluid. Change the brake fluid in the brake line completely if the brake fluid must be refilled with a type other than the brake fluid already in the reservoirs.

Brake Wear Inspection

If the thickness of either pad is less than 1 mm, replace both pads in the calliper as a set. Pad replacement should be done by an authorized GAS GAS dealer.

STEERING

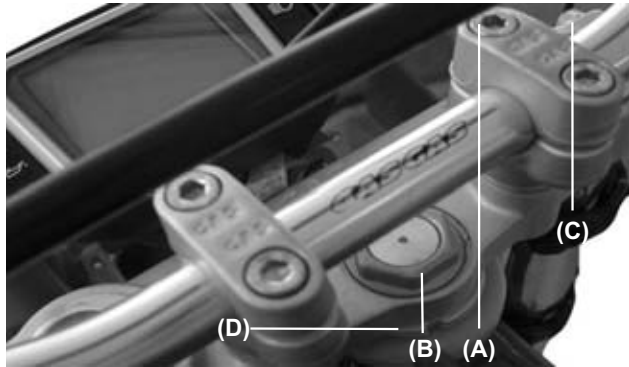
The steering should always be kept adjusted so that the handlebar will turn freely but without excessive play



To check the adjustment of the steering, raise the motorcycle off the ground, by placing a support underneath the chassis. Push the handlebar lightly to either side; if it continues moving under its own momentum, the steering is not too tight. Squatting in front of the motorcycle, grasp the lower ends of the front fork at the axle, and push and pull the bottom end of the front fork back and forth; if play is felt, the steering is too loose.

If the steering needs adjustment

- Using the stand under the frame, stabilize the motorcycle.
 - Place a stand or block under the engine to raise the front wheel off the ground.
- Remove the handlebar by loosening the handlebar clamp bolts (A).



- Loosen the steering stem bolt (B).
- Loosen the bolts for the upper suspension plate (C) and remove it (D).
- Rotate the steering adjustment bolt using the special spanner in order to obtain the appropriate adjustment.

- Install the upper suspension plate (D).
- Tighten the steering stem nut (B), the washers and bolts on the front forks to the correct torque.

Steering nut: 44 Nm (4.5 Kgm)
Suspension plate bolts: 22 Nm (2.25 Kgm)

- Recheck the steering and readjust if necessary.
- Refit all removed parts.

STEERING LOCK

This mechanism allows us to lock the steering.
It is located on the steering tube.

The handlebars must be turned to the right completely, then insert the key, rotate left, press, rotate right and take the key out.



(A). Steering lock.

CAUTION

Never leave the key in the lock. If the steering is turned to the left with the key in the lock then this will be severely damaged.

FRONT FORKS

The front fork should always be adjusted for the rider's weight and track conditions. The adjustments are done in 2 stages:

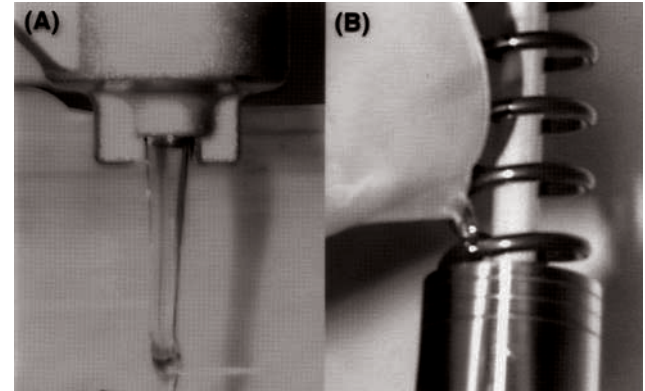
- Adjusting the oil level: The effects of higher or lower oil level are only felt during the final 100 mm of fork stroke. A higher oil level will make the fork rebound more quickly. A lower oil level will make the fork rebound more slowly.

CAUTION

The front fork left and right tubes must be at the same level and aligned with the plate.

Adjusting the oil level

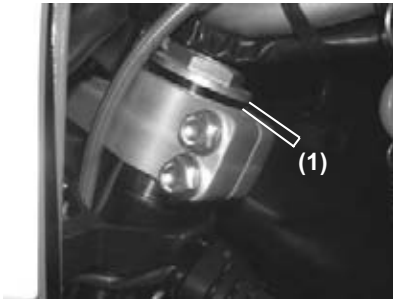
- Using the stand under the frame, stabilize the motorcycle upright.
- Take out the handlebar bolts and take out the handlebars.
- Remove the suspension caps from the rods.
- Slowly compress the front forks all the way.
- Lift the fork springs.
- Holding the suspension rod cap with a spanner, loosen the cap locking counter nut.
- Remove the suspension rod caps.
- Remove the suspension spring guide.
- Using a spanner, remove the springs from the forks.
- Place the oil level indicator on the upper part of the fork tube and measure the distance from the upper part to the oil level.

Standard level of oil**Marzocchi: 200 mm**

(A). Releasing oil.
(B). Filling oil.

Adjust to the level of oil required in the tables using the following oil:

Recommended oil**MARZOCCHI: SAE 7.5**



(1). Height of suspension pipe.

ADJUSTING SUSPENSION HEIGHT

The height of the suspension should be adjusted according to the height of the suspension pipe (1) to 10 mm, and this should come out of the upper flange.

Height of suspension pipe: 10 mm

REAR SUSPENSION

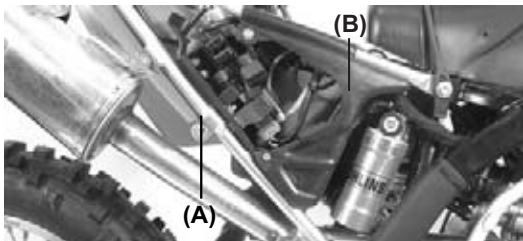
The rear suspension is made up of a shock absorber, swing arm, tie rods and rocker arm.

In general the operating characteristics of the single shock are similar to the front fork however this is characterized as well as by the shock, the articulated quadrangle composed of the rods and rocker arm.

To suit various riding conditions, the spring preload of the shock absorber can be adjusted or the spring can be replaced with an optional one. Also the dampening force can be adjusted easily so changing oil viscosity is unnecessary.

Spring adjustment

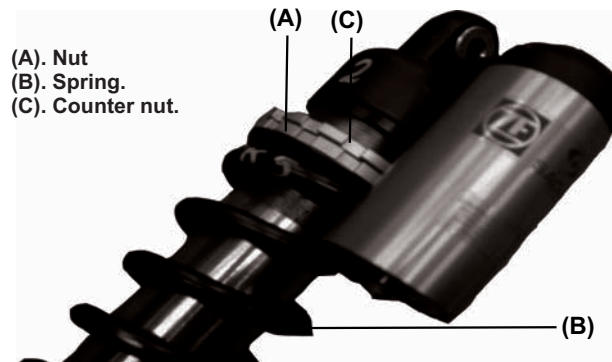
- Remove the seat and the side covers.
- Loosen the bolt of the air filter conduit clamp.
- Remove the silencer.
- Remove the subchassis with the air filter housing.



(A). Subchassis.
(B). Filter housing.

Suspension spring

The standard spring is a 5.4. The length of the preloaded spring with the shock in rest position is 258 mm.



(A). Nut
(B). Spring.
(C). Counter nut.

- Tighten the counter nut correctly.
- After adjusting, move the spring up and down to ensure that it is correctly fitted.
- Refit all removed parts.

Rear shock absorber spring replacement

Stiffer or softer springs are available. If the standard spring is unsuitable for your purpose, select a proper one according to the rider's weight and course conditions.

- Using a hard spring: it springs back more quickly.
- Using a soft spring: it springs back more slowly.

NOTE

See the adjustments page 47.

WARNING

Improper removal of the spring from the rear shock absorber body may cause the spring and associated parts to be ejected at high velocity. Always wear eye and face protection. Removal and installation of spring should be performed by an official distributor.

WHEELS

Tyres

- Tyre pressure affects traction, handling, and tyre life.
- Adjust the tyre pressure to suit track conditions and rider preference, but do not deviate excessively from the recommended pressure.

NOTE

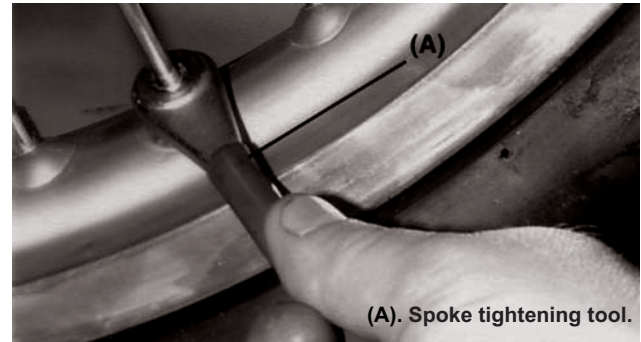
Tyre pressure should be tested when the tyre is cold before driving.

Track conditions

- When the track is wet, muddy, sandy or slippery, reduce the tyre pressure.
- When the track is stony or hard, increase the tyre pressure.

Spokes and rims

The spokes on both wheels must all be tightened securely and evenly and not be allowed to loosen. Unevenly tightened or loose spokes will cause the rim to warp, hasten nipple and overall spoke fatigue, and may result in spoke breakage.



(A). Spoke tightening tool.

Centring the rim

Put a quadrant gauge next to the rim and rotate the wheel to measure the axial centring.

Put the dial on the inside of the rim circumference, rotate the wheel and the difference between the largest and smallest measurement is the centring measurement.

If the wheel is slightly off-centre then this can be corrected by loosening certain spokes and tightening others in order to change the rim position. If the rim is bent or crooked then it must be replaced.

NOTE

A soldered area on the rim may give an excessive reading. Ignore this while measuring the centring.

Cleaning

1- Preparation for cleaning

Before cleaning the motorcycle must be prepared so that water does not penetrate certain areas of the bike.

Exhaust: Once this is cold, cover it with a plastic bag secured with rubber bands.

Clutch lever, brake, throttle and stop button: cover with a plastic bag.

Air filter intake: cover with insulation tape or a cloth.

2- Where to be careful

Avoid spraying water with any great force near the: Brake pump master cylinder and callipers, below the petrol tank: If water enters the electronic coil or inside the spark plug cap, the engine will not start and the affected parts will require drying.

Front and rear hubs.

Steering pivots (steering tube).

Rear suspension system.

Swing arm pivots.

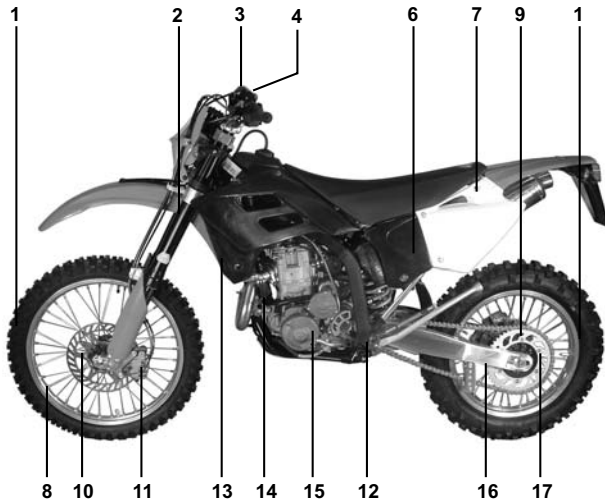
3- After cleaning

- Remove the plastic bags and clean the air filter intake.
- Lubricate the locations listed in the lubrication section.
- Start the engine and let it heat for 5 minutes.
- Check the brakes before driving the bike.

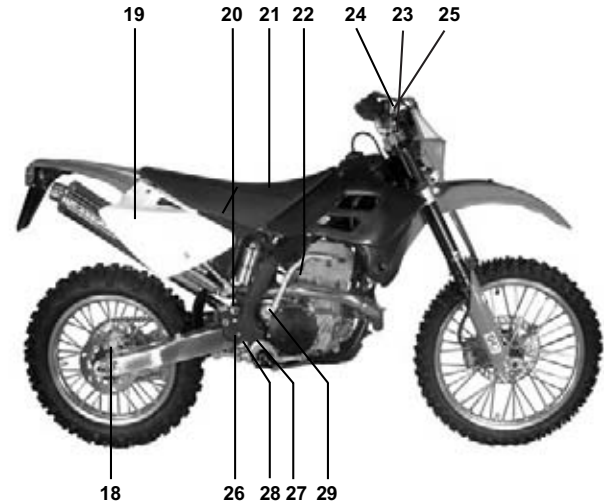
WARNING
Never wax or lubricate the brake disk, this could lead to brake failure and could provoke an accident. Clean the disk using trichloroethylene or acetone.

Tighten bolts and nuts

Every day before using the bike, rapidly ensure that all bolts and nuts are tightened. Also make certain that all of the other fastenings are in place and in good condition.



- 1- Front and rear wheels
- 2- Front forks
- 3- Handle bars
- 4- Clutch lever support bolt
- 6- Air filter housing bolts
- 7- Seat support bolts
- 8- Spokes
- 9- Traction plate bolts
- 10-Front axle bolt
- 11-Brake attachment bolt
- 12- Subchassis support bolt
- 13- Radiator support bolts
- 14-Nuts and bolts of the engine mounting
- 15- Shift pedal bolts
- 16-Chain guide bolts
- 17-Chain adjust bolt



- 18-Rear axle bolt
- 19- Silencer support bolts
- 20- Sub chassis bolts
- 21-Rear shock bolts
- 22-Exhaust flange bolt
- 23-Upper suspension plate bolts
- 24- Steering head nut
- 25- Brake lever support bolt
- 26- Rod support bolt
- 27- Rear brake pedal bolt
- 28- Swinging arm support bolt
- 29-Rocker arm bolt

TIGHTENING TORQUE TABLE

Tighten all of the bolts and nuts using the correct spanners. If not correctly tightened then motorcycle damage or even an accident could occur.

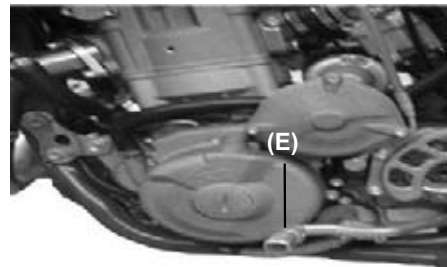
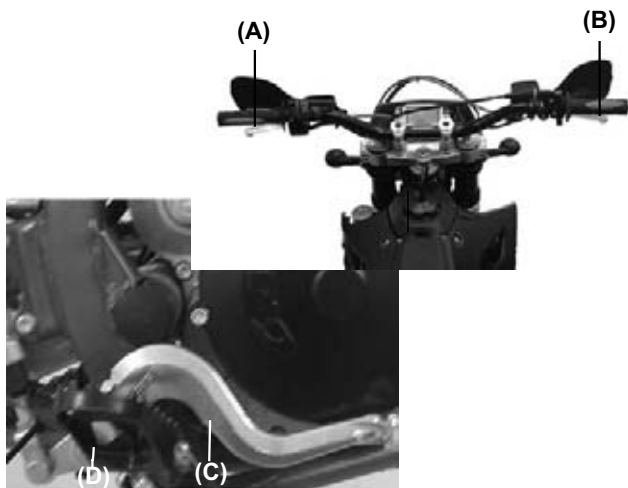
	PART NAME	Nm	Kgm
E N G I N E	Engine drain plug	20	2.0
	Kick pedal bolt	20	2.0
	Kick pedal nut	25	2.5
	Shift pedal bolt	10	1.0
	Spark plug	11	1.0
	Water pump cover drain plug	9	0.9
C H A S S I S	Calliper mounting bolts	25	2.5
	Disc plate mounting screws	10	1.1
	Engine mounting bolts	36	3.6
	Front axle bolt	51	5.1
	Front brake lever support bolt	6	0.6
	Fork flange bolt	29	3.0
	Steering nut	98	10.0
	Rear axle nut	98	10.0
	Rear brake pedal bolt	9	0.9
	Subframe support bolt	26	2.7
	Rear shock absorber bolt	39	4.0
	Rear disc wheel drive bolt	29	3.0
	Spokes	1.5	0.15
	Steering axle bolt	4	4.5
	Rocker arm bolt	81	8.3
Rod bolts	81	8.3	

LUBRICATION

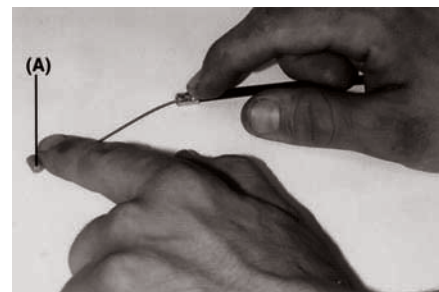
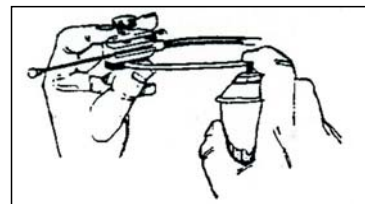
Lubricate the points shown here, with either motor oil or regular grease, periodically or whenever the vehicle is wet, and especially after using a high-pressure spray washer. Before lubricating each part, clean off any rusty spots with rust remover and wipe off any grease, oil, dirt, or grime.

General lubrication

- Clutch lever (A).
- Front brake lever (B).
- Rear brake pedal (C).
- Rear brake bearing (D).
- Shift pedal (E).



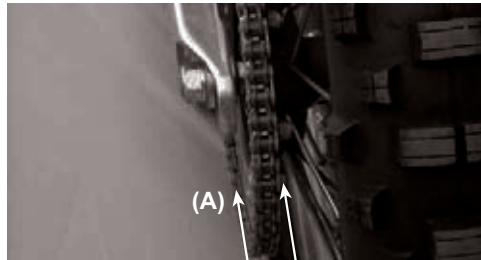
Use aerosol with pipe to pressure lubricate



Use grease on the inner throttle cable

Chain lubrication

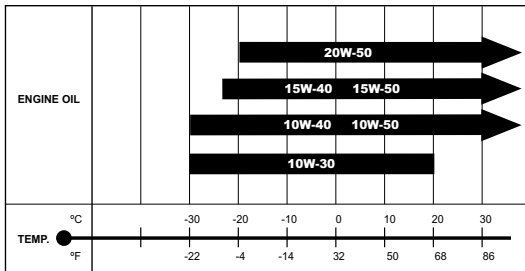
Lubricate the chain after wet terrain or when the chain looks dry. A high viscosity oil rather than low viscosity oil is better because it will stay a long time in chain providing lubrication. Put oil on the sides of the chain rollers (A) so that it penetrates into these; remove excess oil.



(A). Greasing.

ENGINE OIL

Use a premium 4-stroke engine oil to lengthen the life of your motorcycle. Use oil classification SF or SG under the API classification.



The recommended viscosity is SAE 10W-50; if an SAE 10W-50 oil is not possible use an alternative according to the table above.

Checking the oil level and making the changes periodically are two very important operations to keep the engine in perfect shape.

Initially replace the oil after 5 hours of operation and then every 60 hours.

NOTE

The engine oil expands and thus the level increases when it is hot. Check and adjust the level when the motor oil is not hot.

Changing the oil and filter

The oil should be changed when the engine is hot, since this helps the oil to go out through the drain located in the lowest part of the engine.

WARNING

The engine oil and the exhaust manifold can be very hot and cause burns. Wait until the oil and the exhaust manifold are a little cooler.

WARNING

Engine oil is a health risk. Avoid any contact with this given that this could provoke irritations and, in the worst cases, skin cancer.

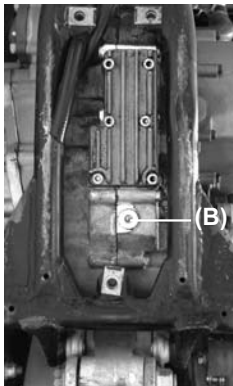
- Keep new or used oil away from the reach of children and animals.
- Clean clothes sleeves and pants.
- Wash yourself with soap if oil has been in contact with your skin.

To change the oil, follow the following steps:

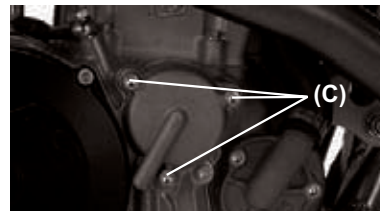
1. Place a recipient underneath the crankcase.

NOTE

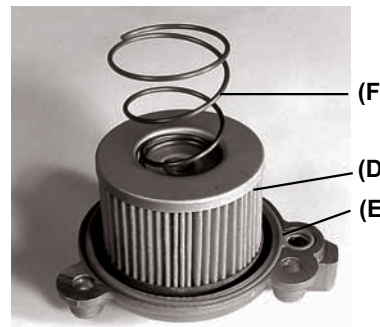
Put used motor oil in an appropriate container for recycling.



2. Drain the engine oil from the crankcase by removing the plug (B), taking care to always keep the motorcycle horizontal.



3. Remove the three bolts (C) from the filter cover.

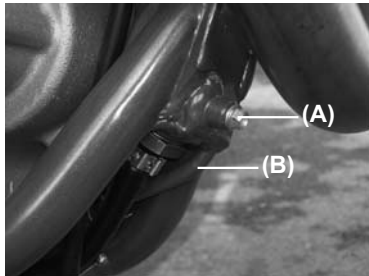


4. Take off the filter cover, remove the filter element (D) and the gasket (E). Always replace both components together.

WARNING

Genuine GAS GAS spare parts should always be used. If the filter is fitted incorrectly, the engine oil will not flow, resulting in poor running of the engine.

5. Before replacing the oil filter, make sure that the spring (F) and the gasket (E) are in the correct position.
6. Replace the filter cover and tighten the bolts without exceeding the recommended torque.
7. Undo bolt M6 on the chassis oil tank and allow the oil to drain; Then replace and tighten the bolt and fit a new copper washer.



A. Bolt M6
B. Oil tank filter

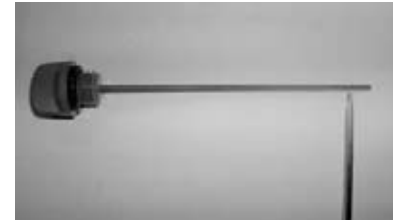
8. Undo the oil tank filter from the underside of the chassis; clean the filter net and then replace and tighten the unit to the chassis, after fitting a new washer.
9. Remove the dipstick from the steering tube and pour approx 1000 ml of new oil through the opening using a funnel.



WARNING

The engine may be damaged if the oil is not used properly or the specifications recommended by GAS GAS MOTOS are not followed. Use the type of oil specified in the section on Petrol and Oil recommendations.

10. Start the engine and allow it to run some minutes. Check for oil leaking from the filter cover. Stop the engine.
11. Check the oil level is correct: Place the motorcycle on a horizontal surface, remove the dipstick and check that the oil covers the first centimetre of the dipstick.



12. If necessary, top up with new oil through the opening of the alignment tube until the oil level lies between the marks on the dipstick.

TUNING THE SUSPENSION

No area of machine adjustment is more critical than proper suspension tuning; an incorrectly tuned suspension will keep even the best rider from attaining the full benefit of his machine's ability. Check the suspension according to the pilot and the conditions of the terrain. When tuning the suspension don't forget:

- If the machine is new, break-in the suspension with at least one hour of riding before making any setting evaluations or changes.
 - The following factors should be considered: rider weight, rider skill and the track conditions (as well as the rider's style and positioning on the machine)
 - If you have a problem, test by changing your riding posture or position so that the cause of the problem can be deduced.
 - It is a wise practice to adjust suspension settings to suit the rider's strong points. If you are fast through the corners, adjust the suspension to allow fast cornering.
 - Make setting changes in small increments; a little bit goes a long way, and it is very easy to over adjust a setting.
 - The front and rear suspension should be balanced; when one is changed, the other should be changed similarly.
- When evaluating suspension performance the rider must make every effort to ride consciously and recognize the effects of his changes; such things as changes in rider position and increasing fatigue may lead to incorrect judgments about required setting adjustments.
- When the proper settings have been determined for a particular track, they should be written down for reference when returning to that track.
 - Lubricate the bearings of the swinging arm, rods, rocker and joints before making changes and every 5 refills to prevent excess friction affecting the operation of the suspension.

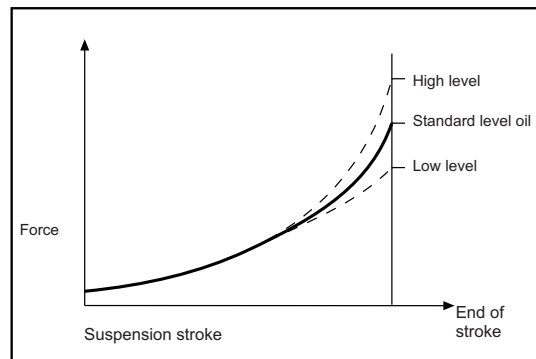
Front forks

The fork oil level is adjustable. A change in the oil level will not affect the lower part of the stroke, but it will affect the upper part.

- When the oil level is raised:
The spring effect becomes more progressive, and the front fork action feels 'harder' in the later stage of travel, near the bottom of the stroke.
- When the oil level is lowered:
The spring effect becomes less progressive, and the front fork action feels softer near the bottom of the stroke.
- Change the fork oil level correctly to make the forks work more at the end of fork travel.
- If fork bottoming is experienced, raise fork oil level in 10 mm increments. This increase will cause a change in the upper stroke of the spring.

Adjusting the oil level

Adjust the oil level of the front forks (see the maintenance chart).



Changing poor settings

Listed below are some symptoms of improper suspension settings and the most adequate means of correcting them.

The proper settings can be achieved by applying the information in this chapter in a scientific manner. Simply take time to think about the changes you believe necessary, check them against the symptoms and cures described here, make the changes in small increments, and take notes on the changes and their effects.

Front fork symptoms

- The front forks are too stiff

- . Rebound adjustment incorrect.
- . The springs are too strong.
- . Too much oil.
- . Oil too dense.

- The front forks stiffen at the end of the stroke

- . The fork oil level is too high.

- The front forks operate but ride is too hard

- . Oil too dense.
- . Fork oil degraded

- Too soft

The front forks dive excessively during braking and deceleration

1. Front fork oil level low.
2. The springs are too soft.
3. Oil too light.
4. Fork oil degraded.

Rear shock absorber symptoms

- Too hard

1. Rigid suspension.
 - . Hard spring.
 - . Spring preload exceeded.
2. The spring is hard or very preloaded

- Too soft

- On landing after a big jump, bottoming occurs.
- . Soft spring or too little spring preload.
 - . Shock oil degraded.

Determining the Proper Settings

- Standard adjustments

From the factory, the machine is set up for an intermediate-weight rider possessing intermediate riding ability. If the rider weight or ability is greater or lower than average then some adjustments may be made to the suspension.

- Readjusting the suspension

Type of surface	
Smooth	Soft spring
Rough	Hard spring

Experience

Learner driver: softer spring with more rebound damping.
Expert: Hard spring.

Weight

Weight: Hard spring.
Lightweight: Soft spring

Track type

- Many corners:

Lower the front end slightly (increase the fork tube height 5mm).
This increases agility.

- Fast course with many jumps:

Lift the front (lower the fork tube height to 5mm). This increases stability.

- Deep pits or sandy ground:

Lift the front for increased stability.

Following the preliminary adjustments, make a trial run on the ground to evaluate the changes.

Remember:

- 1- Always make changes in small increments.
- 2- Make sure the rider is logical in their evaluation.
- 3- A change in the front suspension requires a change in the rear suspension and vice-versa.

Front and rear compatibility

Use this procedure to determine if the suspension is balanced reasonably well: Situate the motorcycle so that it is perpendicular to the ground. While standing next to the machine, pull on the front brake and place one foot on the brake firmly. If the bike maintains its level attitude as the suspension is compressed, the suspensions are well balanced. Sit astride the bike and take up a riding posture the check to see if the bike is in a horizontal position. If one end drops noticeably more than the other, the front and rear are not compatible and must be readjusted to achieve a better balance.

This is one of the most effective adjustment procedures but suspension settings will vary depending on the conditions at the track and the rider's preferences.

Front end searching going downhill or accelerating out of a bend?

Front forks too soft.

1. Increase the oil level 10 mm.
2. Use alternate harder spring, or increase spring preload.

Front end knifes or over-steers in turns (front end tends to turn inward)?

Front forks too soft.

1. Increase the oil level 10 mm.

Front end pushes out or slides in turns

1. Release air from the fork.
2. Reduce the oil level 10 - 20 mm.
3. Use a softer spring.

Front fork doesn't respond to small potholes in wide turns

- Front fork hard:

 1. Reduce the oil level 10 mm.
 2. Use a soft spring.

Rear tire won't "hook up" out of corners

- (A loss of traction coming out of turns).
- The shock is too stiff:
 1. Reduce rear shock absorber spring.
 2. Use a softer spring.

Landing on front wheel in fast jumps

- (could also be a rider position problem).
1. Reduce preload of the shock spring.
 2. Reduce compression.

Front and rear of the bike bottom off high speed jumps:

- (If harsh bottoming occurs once or twice per lap of the race).
- . Front and rear suspension systems are too soft:

1. **Front:** Increase oil level and/or use harder spring.
2. **Rear:** Use a stronger spring and / or increase preload.

NOTE

After any adjustments, always check front and rear compatibility.

Adjustments according to bottoming conditions
(rear shock absorber).

- Bottoms at low speed: Increase spring preload to maximum.

a) The rear shock does not bottom out when the spring and damping are correct for the total weight of the machine and rider (full stroke).

b) A bottoming sensation (even through the machine is not bottoming) may actually be the inability of rider and machine weight to overcome an overly stiff spring or excessive damping.

Observe the rear while jumping; if it does not approach the limit then attempt to lower the spring preload.

Special care according to track conditions

1. In dry, dusty conditions (such as volcanic ash or fine powdery dust) special care must be given to keep the air cleaner element clean.
2. Wet heavy clay or mud sticking to the tyres and other parts of the vehicle. The mud can add significantly to the weight if the vehicle obstructing the radiator and therefore reduce performance. Take care not to overheat the engine. The same applies to deep sand.
3. In muddy or sandy conditions adjust the chain looser than in other conditions as the chain and sprockets will pack with mud/sand and reduce chain slack.
4. Check chain and pinion/sprocket wear frequently when riding in mud or sand since wear is increased in these conditions
5. In dusty conditions as the air cleaner collects dust, the engine runs richer.

AVAILABILITY OF SPARE PARTS

Your Gas Gas dealer will provide any information you may require about spare parts.

PER MONTH OF USE

(1). Check

1. Tighten the front axle and disks
2. Tighten the front forks flange bolts
3. Tighten the handlebar clamp bolts
4. Tighten the throttle control bolts
5. Verify, grease the throttle control
6. Verify the front and rear brake lines
7. Front and rear brake fluid level
8. Front and rear brake disc and calliper installation
9. Front and rear brake operation
10. Fuel tank installation
11. Check cables
12. Engine mounting bolts
13. Engine pinion
14. Shift pedal bolt
15. Transmission oil level
16. Battery charge
17. Rod mounting bolts
18. Rod bolts
19. Rear shock bolts
20. Tighten the swinging arm pivot nut
21. Tighten the rear axle nut
22. Tighten nut and bolt of rear sprocket
23. Check seat
24. Tighten the spokes
25. Tyre air pressure
26. Tighten chain
27. Coolant Level

(2) Maintenance notice for after riding in rain on muddy course

1. Apply grease to swing arm pivot and rear suspension system.
2. Inspect the drive chain and rear sprocket for wear.
3. Clean the pinion and rear sprocket.
4. Grease the throttle control and cable.

(3) Suggested spare parts

Consult the parts manual.

STORAGE

When the motorcycle is to be stored for any length of time, it should be prepared for storage as follows:

Clean the entire vehicle thoroughly.

Run the engine for about five minutes to warm the oil, shut it off and drain the transmission oil.

- Put in fresh transmission oil.

Empty the fuel from the fuel tank, and empty the carburettor float bowl. (If left in for a long time, the fuel will deteriorate).

- Disconnect the battery.

- Lubricate the drive chain and all the cables.

- Spray oil on all unpainted metal surfaces to prevent rusting. Avoid getting oil on rubber parts or in the brakes.

- Set the motorcycle on a box or stand so that both wheels are raised off the ground. (If this cannot be done, put boards under the front and rear wheels to keep dampness away from the tire rubber).

- Tie a plastic bag over the exhaust pipe to prevent moisture from entering.

- Put a cover over the motorcycle to keep dust and dirt from collecting on it.

To put the motorcycle back into use after storage.

- Remove plastic bag from exhaust.

- Make sure the spark plug is tight.

- Fill the fuel tank with fuel.

- Check all the points listed in the Daily Pre-ride Inspection Section.

- General lubrication

- Connect the battery.

GAS GAS MULTIFUNCTION INSTRUCTIONS

The multifunction apparatus, which is waterproof, has 4-8 LED indicators on both sides of a central indicator screen

This central indicator screen, made of liquid crystal and with illumination, gives information about the rpm, speed, journey, kilometres travelled, time, average speed, maximum speed, length of time with motor running and total time. The data relative to the distance travelled and total time of use is stored in the memory, even when the apparatus is switched off. When the multifunction apparatus is not activated, it displays a clock.

The wheel circumference value is adaptable, as is the measuring system (metric or imperial).

The number and distribution of the LED indicators, and the amount of information on screen may vary according to model.







Panel



Panel description

1. RESET button
2. 2nd row of indicators
3. 1st row of indicators
4. Tachometer with bar graph
5. Tachometer scale
6. Fuel indicator bars (optional)
7. LED indicator symbols
8. MODE button

Description of symbols

	Left indicator / Green
	Dipped headlights / Green
	Motor oil / Red
	Right indicator / Green
	Full headlights / Blue
	Neutral / Green (Optional)

Technical characteristics

FUNCTIONS	Symbol	TECHNICAL CHARACTERISTICS	INCREMENTS	PRECISION
Bar Tachometer		500 – 11,000 rpm	500 rpm	
Digital Tachometer	RPM	100 – 19,900 rpm	100 rpm	
Gear change indicator	RPM	100 – 19,900 rpm	100 rpm	
Maximum Tachometer Value		100 – 19,900 rpm	100 rpm	
Speedometer	MAX RPM	2.3 – 300 km/h (187.5 mph)	0.1 km/h or m/h	$\pm 1\%$ $\circ \pm 0,1$ km/h / m/h
Speedometer MAX		2.3 – 300 km/h (187.5 mph)	0.1 km/h or m/h	$\pm 1\%$ $\circ \pm 0,1$ km/h / m/h
Average Speed AVG		2.3 – 300 km/h (187.5 mph)	0.1 km/h or m/h	$\pm 1\%$ $\circ \pm 0,1$ km/h / m/h
Distance counter 1 and 2	TRIP 1&2	0 – 999.9 km or 0 – 624.9 miles	0.01 km or miles	$\pm 0,1 \%$
Mileometer	ODO	0 – 999,999 km or 0 – 624,999 miles	0.1 km or miles	$\pm 0,1\%$
Time in use	RT	0:00'00" -99:59'59"	1 second	± 50 PPM
Total time	TT	0:00'00" – 9999:59'	1 minute	± 50 PPM
Clock		0:00'00" – 23:59'59"	1 second/1 minute	± 50 PPM

Initial voltage: 12v CC

Speed sensor Non-contact magnetic sensor.

Tachometer entry CDI (capacitor discharge ignition) or ignition coil signal

Wheel circumference adjustment 1 mm – 3.999 mm (1 mm increments).

Working temperature: -10 °C - + 80 °C (engine casing interior).

Fuel sensor resistance 100Ω (only in models with fuel level indicator)

Functions

RPM: Bar

Tachometer with bar graph The bar graph of the tachometer displays up to 11,000 rpm.

RPM: Digital Tachometer

The rpm is shown in the second row The digital tachometer displays up to 19,900 rpm The tachometer signal can be read from the CDI (Capacitor Discharge Ignition) or the ignition coil.

Gear change indicator according to rpm

This function permits setting an indicator for changing gear at a specific rpm level The tachometer bar flashes when the rpm reaches the specific level and stops flashing when the gear is changed

MAX RPM: Maximum tachometer value

It appears in the 2nd row. It shows the highest level reached by the tachometer since the last resetting of the data.

SPD: Speedometer

The speedometer information appears in the first line of the screen It shows up to 300 km/h or 187.5 mph

MAX: Maximum speed gauge

The MAX value appears in the 1st line. It shows the highest speed reached since the last resetting of the data.

AVG: Average driving speed

The AVG value appears in the 1st line. It calculates the average speed since the last RESET operation.

TRIP: Journey counter

This appears in the second line of the screen. The TRIP function contains the vehicle's accumulated mileage since the last RESET operation

ODO: Mileometer

It shows the total mileage accumulated by the vehicle. The data is stored in the memory, even when the device is not running.

RT: Time of use controller

It calculates the total time in use since the last RESET operation. It starts counting from the moment that movement begins.

TT: Total time of use controller

It calculates the vehicle's total time in use. It starts counting from the moment that movement begins. The data is stored in the memory, even when the device is not running.

12/24 hour clock

It shows the time in either 12 or 24 hour formats.



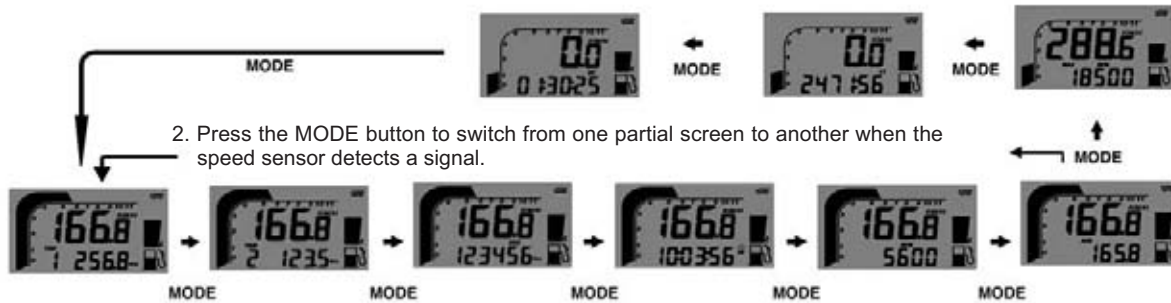
Fuel level indicator (only vehicles with this function)

It has 7 bars showing the amount of fuel remaining in the fuel tank. The last bar flashes to indicate that the fuel level is too low.

Operation of the buttons

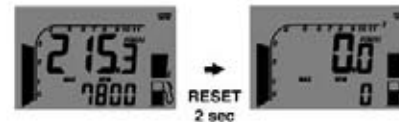
MODE BUTTON

1. Press the MODE button to switch from one function screen to another when the speed sensor detects no signal.



RESET BUTTON

1. Press the MODE button to reach the appropriate screen, and then press RESET for 2 seconds to return the data stored in TRIP 2, MAX and MAX RPM to zero separately.
2. Return the data in TRIP 1, AVG and RT at the same time. The data of the ODO, CLOCK and TT. cannot be returned to zero.



OPERATION OF THE GEAR CHANGE ACCORDING TO RPM

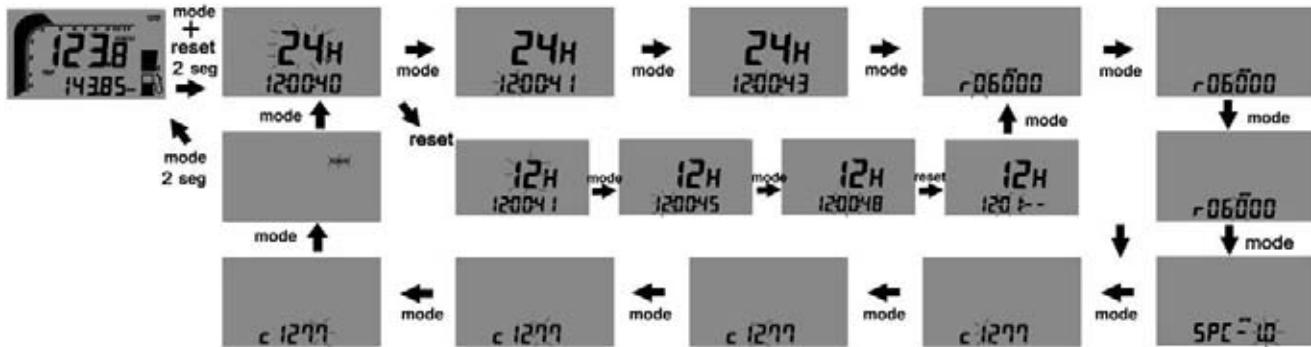
1. Press the MODE button to switch to the RPM screen; accelerate to the rpm which is desired for the gear change indicator to be activated.
2. Press the RESET button to confirm and establish the gear change indicator according to the rpm.
3. The tachometer with bar graph and a LED will flash to indicate the need to change gear.
4. Use the steps 1 and 2 to readjust the gear change according to RPM

Multifunction and wheel circumference adjustment

The configuration operations include the 12/24 hour clock, the gear change according to rpm indicator, the number of engine revolutions by signal, the wheel circumference and the units of measurement. The configuration must be carried out step by step. The computer will return automatically to the main screen if no button is pressed in any adjustment screen for 75 seconds.

1. Press the MODE and RESET buttons to switch to the adjustment screen. In the adjustment screen, press the RESET button to increase the value of the flashing digits or to convert units, press the MODE button to confirm the configuration and move on to the next digit or the next adjustment screen to be configured. Press the MODE button for 2 seconds in any adjustment screen to conclude the configuration and return to the main screen.
2. The screen shows 12 or 24 h, and the symbols XX XX-XX, and AM/PM if the 12h option has been selected.
3. When the RESET button is pressed the 12/24h system changes, and when MODE is pressed, the configuration concludes and the configuration of the clock digits opens.
4. Press the RESET button to increase the value of the flashing digit one by one; press the MODE button to confirm the configuration and pass on to the following digit.
5. Press the MODE button to switch to the adjustment screen of the gear change according to rpm, once the clock has been configured.
6. The screen will show RPM rXXX00. Press the RESET button to increase the value of the digit one by one; press the MODE button to confirm the configuration and pass on to the following digit.
7. Press the MODE button to switch to the adjustment screen for the engine revolution by signal, once the gear change according to rpm configuration is completed.
8. The screen will show SPC-X.X RPM, with 1.0 as the default value There are 4 options 1.0, 2.0, 3.0 and 0.5. They correspond to the number of revolutions for each signal. For example, a value of 2.0 means that the motor turns over twice to produce a signal.
9. Press the RESET button to move between the four values . Press the MODE button to confirm the configuration and to move on to the wheel circumference adjustment screen

10. When cXXXX appears on screen, the c stands for circumference and is followed by four digits by default; the flashing digit is the one to be changed.
11. Press the RESET button to increase the value of the flashing digit one by one; press the MODE button for 2 seconds to confirm the digit change and pass on to the following digit.



FAULT DIAGNOSIS

NOTE

This is not an exhaustive list, it is meant simply as a rough guide to assist troubleshooting for some of the more common difficulties.

	FAULT	CAUSE	SOLUTION
1	1 The starter motor does not work	<ul style="list-style-type: none"> - The fuse for the starter relay is blown. - Battery discharged. - Low temperature. 	<ul style="list-style-type: none"> - Remove the number plate on the left hand side and the air filter cover then change the starter motor fuse. - Recharge the battery and investigate the causes for discharging, visit a qualified workshop. - Start engine with start pedal.- Crankshaft locked.
2	The engine does not rotate	<ul style="list-style-type: none"> - Crankshaft locked. - Cylinder/ piston/ crankpin journal seizure. - Transmission assembly seizure. 	<ul style="list-style-type: none"> - Go to a specialist workshop. - Go to a specialist workshop. - Go to a specialist workshop.
3	Engine rotates but does not start	<ul style="list-style-type: none"> - Fuel supply incorrect. - The motorcycle has been out of operation for a longer period of time. - Spark plug soiled or humid. - Engine flooded. 	<ul style="list-style-type: none"> - Check fuel tap for breaks or blockages. - It is advisable to drain the old fuel from the tank. - When the fuel tank is filled with new flammable fuel the engine starts immediately. - Dry the spark plug out or replace it. - To «unflood» the engine, full throttle, then operate the kick-start 5 to 10 times or operate the electric starter twice in 5 seconds. Then start the engine as described below. If the engine does not start, undo the spark plug and dry it. - Remove the seat and the fuel tank, clean the pin connector and treat it using a contact spray.

	FAULT	CAUSE	SOLUTION
3	Engine rotates but does not start	<ul style="list-style-type: none"> - The CDI pin connector, generator or coil oxidised or in poor condition. - Petrol /air mixture incorrect. 	<ul style="list-style-type: none"> - Clean the petrol tank ventilation.
4	The engine starts but does not stop	<ul style="list-style-type: none"> - Air supply incorrect. - Fuel insufficient. 	<ul style="list-style-type: none"> - Close the starter. Clean the petrol tank ventilation. - Fill the fuel tank with fuel.
5	The engine overheats	<ul style="list-style-type: none"> - Insufficient coolant in the circuit. - The radiator is soiled or partially obstructed. 	<ul style="list-style-type: none"> - Add coolant, check the seal of the cooling system. - Clean the radiator fins or change.
6	The engine does not run smoothly	<ul style="list-style-type: none"> - Carburation system maladjusted. - Valve adjustment incorrect. 	<ul style="list-style-type: none"> - Adjust the carburation system. Visit a specialist workshop. - Adjust the valve play. Visit a specialist workshop.
7	The engine lacks power or does not accelerate correctly	<ul style="list-style-type: none"> - Fuel supply faulty. - Air filter obstruction. - Exhaust deteriorated with leaks. - Valve set too small. - Decompression maladjusted. 	<ul style="list-style-type: none"> - Clean and check fuel system. - Clean or change the air filter. - Check if the exhaust system is deteriorated, renew the glass fibre in the silencer if necessary. - Adjust the valve play. Visit a specialist workshop. - Verify the operation of the system.
8	Engine consumes too much oil	<ul style="list-style-type: none"> - Piston-cylinder ring diameter tolerance excessive. 	<ul style="list-style-type: none"> - Adjust the tolerance by changing the piston rings.

	FAULT	CAUSE	SOLUTION
8	High oil consumption	<ul style="list-style-type: none"> - Engine oil level is too high. - The quality or viscosity of the oil is insufficient. 	<ul style="list-style-type: none"> - Correct the level of engine oil. Drain oil as necessary from the engine. - Empty the engine oil and fill with oil of the recommended viscosity.
9	Abnormal engine noise	<ul style="list-style-type: none"> - Ignition problems. - Valve adjustment play. - Over heating. 	<ul style="list-style-type: none"> - Go to a specialist workshop. - Adjust the valve play. Go to a specialist workshop. - See chapter 5.
10	Detonations in the exhaust	<ul style="list-style-type: none"> - Carbon in combustion chamber. - Carburation system maladjusted. - Incorrect or poor gasoline or wrong octane rating. - Incorrect or non-specified spark plug. - Exhaust system joints deteriorated. 	<ul style="list-style-type: none"> - Clean the combustion chamber. - Go to a specialist workshop. - Drain the petrol and fill with fresh or higher octane petrol. - Change spark plug for a new one or recommended one. - Check if the exhaust system is deteriorated. The seals must be in perfect condition, if not then they must be changed for new ones.
11	White fumes from the exhaust	<ul style="list-style-type: none"> - Cylinder head gasket leak (water leaking into cylinder). 	<ul style="list-style-type: none"> - Change head gasket. Go to a specialist workshop.
12	Brown fumes from the exhaust	<ul style="list-style-type: none"> - Air filter obstruction. 	<ul style="list-style-type: none"> - Clean or change the air filter. Go to a specialist workshop.
13	Gears don't engage	<ul style="list-style-type: none"> - Clutch does not release. - Shift fork worn or locked. - Gear locked in transmission. - Shift lever damaged. - Selector position spring broken or loose. 	<ul style="list-style-type: none"> - Go to a specialist workshop. - Change the gear fork. - Go to a specialist workshop. - Change the gear lever. - Adjust the selector position spring or change it.

	FAULT	CAUSE	SOLUTION
13	Gears don't engage	<ul style="list-style-type: none"> - The spring of the selector is broken. - Cylinder change if broken. - Gear ratchet spring broken. 	<ul style="list-style-type: none"> - Replace the down selector mechanism spring. - Replace the gear drum. - Replace the ratchet spring of the selector.
14	Gears jump	<ul style="list-style-type: none"> - Gear change fork damaged in the gears. - Gear teeth worn. - Gear nipple damaged. - Groove gear drum worn. - Gear change fork pivot worn. 	<ul style="list-style-type: none"> - Change gear fork. - Change. Go to a specialist workshop. - Change. Go to a specialist workshop. - Change. Go to a specialist workshop. - Change shaft. Go to a specialist workshop.
15	Clutch slipping	<ul style="list-style-type: none"> - No play in the clutch handle. - Clutch plate worn. - Clutch housing worn. - Clutch spring broken or weak. - Clutch plates worn. 	<ul style="list-style-type: none"> - Go to a specialist workshop. - Replace the clutch plate. Go to a specialist workshop. - Replace the clutch hub. - Adjust the selector position spring or change it. - Change the clutch disks. Go to a specialist workshop.
16	Bike unstable	<ul style="list-style-type: none"> - Cable obstructs handlebars. - Steering shaft nut too tight. - Steering bearings damaged or worn. - Steering shaft bent. 	<ul style="list-style-type: none"> - Put the cable to one side and release it a little. - Undo the steering shaft nut. - Replace the steering bearing. - Change the steering shaft. Go to a specialist workshop
17	Shock absorption too hard	<ul style="list-style-type: none"> - Front forks excess oil. - Front fork oil viscosity too high. - Front forks twisted. - Excessive tyre pressure. 	<ul style="list-style-type: none"> - Eliminate the excess oil to an adequate level. - Empty the fork oil and fill with oil of the recommended viscosity. - Change front fork. Go to a specialist workshop. - Verify tyre pressure.

	FAULT	CAUSE	SOLUTION
17	Shock absorption too hard	- Rear shock absorber maladjusted.	- Adjust the rear shock.
18	Shock absorption too soft	- Front forks low oil. - Front fork oil viscosity too low. - Front forks twisted. - Low tyre pressure. - Rear shock absorber maladjusted.	- Add oil to the forks as required. - Empty the fork oil and fill with oil of the recommended viscosity. - Change front fork. Go to a specialist workshop. - Verify tyre pressure. - Adjust the rear shock.
19	The bike makes unusual noise	- Drive chain incorrectly adjusted. - Chain worn. - Rear sprocket worn. - Chain lubrication insufficient. - Rear wheel misaligned. - Oil front fork insufficient. - Front fork spring weak or broken. - Brake disk worn. - Brake pads incorrect position or crystallised. - Cylinder damage. - Brackets, nuts, bolts not properly tightened.	- Adjust the chain. - Change the chain, rear sprocket and secondary transmission pinion. - Change the rear sprocket. - Lubricate using a correct chain lubricant. - Align the rear wheel. Go to a specialist workshop. - Add oil to the forks as required. - Replace the front fork spring. - Replace the brake disk. - Refit the pads or change them. - Replace the damaged cylinder. - Verify and adjust to the correct tightening torques.
20	Handlebar vibrates	- Tyre worn, swing arm or needle bearing worn. - Rim off-centre. - Rear wheel misaligned. - Steering shaft play. - Handlebar bracket loose, steering shaft bolt loose.	- Change worn parts. - Centre the rim. - Verify the tension of the wheel spokes. Re-adjust if necessary. - Check the distance between steering shafts and adjust if necessary. - Tighten the handlebar bracket and the steering shaft bolt to the correct tightening torques.

	FAULT	CAUSE	SOLUTION
21	Motorcycle pulls to one side	<ul style="list-style-type: none"> - Chassis twisted. - Steering incorrectly adjusted. - Steering shaft bent. - Front forks twisted. - Rear wheel misaligned. 	<ul style="list-style-type: none"> - Change the chassis. Go to a specialist workshop. - Adjust the steering. Go to a specialist workshop. - Change steering shaft. Go to a specialist workshop. - Change front fork. - Align the wheels.
22	The brakes do not function correctly	<ul style="list-style-type: none"> - Disk worn. - Loss of brake fluid. - Brake fluid deteriorated. - Piston cylinder broken. - Brakes incorrectly adjusted. 	<ul style="list-style-type: none"> - Change Disk - Check brake circuits. Change any that are damaged or broken. - Drain brake fluid and replace with new, as recommended by the manufacturer. - Replace the pump piston. - Adjust the brakes
23	The lights blow	<ul style="list-style-type: none"> - Voltage regulator faulty. 	<ul style="list-style-type: none"> - Remove the seat and the fuel tank then check connections, verify the voltage regulator and the fuses in the fuse box.
24	The lighting system does not work	<ul style="list-style-type: none"> - Installation fuse is blown. 	<ul style="list-style-type: none"> - Remove the back light cover

WARRANTY TERMS AND CONDITIONS

(According to Law decree 23/2003 on the 10th of July, covering Warranties on Consumer Item Sales)

Warranty terms of the manufacturer GASGAS Motos, S.A.

The company GAS GAS MOTOS, S.A. (hereafter referred to as “GG”), with this present document guarantees the consumer, the purchaser of a vehicle manufactured by GG, that both the materials and the manufacturing are free of defects in accordance with the highest standards of quality. Consequently, GG with this document guarantees the consumer (hereafter referred to as the “purchaser”), in accordance with the conditions set out below, the repair, free of charge, of any defect in materials or that might result from faulty manufacture that is detected in a new motorcycle within the period covered by this Warranty and with no limit on the number of kilometres covered or hours of use.

Warranty Period

The period covered by this Warranty will begin on the day of delivery of the vehicle to the purchaser by a GG authorised dealer, or in the case of demonstration models, on the date in which the vehicle is used for the first time.

The seller will be responsible for any unwarranted faults that become apparent within the period established in the Law decree 23/2003 on the 10th of July covering Warranties on Consumer Goods Sold from the time of delivery and in accordance with the Directive 1999/44/EC for other members of the European Community. For countries outside the European Community, the Warranty Period will be determined by the existing regulations in those countries. Nevertheless, should the fault appear during the first six months after the delivery of the motorcycle, it will be presumed that the said fault existed at the time of delivery; from the end of the sixth month onwards, the purchaser must demonstrate that the unwarranted fault existed at the moment of delivery. During the first six months subsequent to the delivery of the repaired vehicle, the seller will be responsible for any unwarranted faults arising out of the repair.

Any defects detected in the product must be brought to the attention of a GG authorised dealer within the Warranty Period. If the last day of this period is a Sunday or an official holiday, the Warranty period will be extended such that the last day of the period covered will be the first working day after the Sunday or official holiday.

Those claims under Warranty for defects not brought to the attention of a GG authorised dealer before the end of the Warranty Period will be excluded.

Obligation of the purchaser

GG will have the right to reject any claims under Warranty in the event that:

- a) The purchaser has failed to submit the vehicle to any of the inspections and/or maintenance work required in the Users' Manual, or has exceeded the date set for such inspections or maintenance work. Also excluded from guarantee are those faults that appeared prior to the dates established for an inspection or maintenance work where the latter was not carried out, or was carried out later than the date established.
- b) An inspection, maintenance or repair has been performed on the vehicle by third parties not recognised or authorised by GG.
- c) Any maintenance or repair has been carried out on the vehicle that violates the technical requirements, specifications and/or instructions indicated by the manufacturer.
- d) Spare parts whose use has not been authorised by GG have been used during the course of maintenance work or repairs to the vehicle, or in the event that the vehicle has been used with fuels, lubricants or other liquids (including, amongst others, cleaning products) that have not been expressly mentioned in the specifications set out in the User's Manual.
- e) The vehicle has been altered or modified in any way or fitted with components other than those expressly authorised by GG as accepted components of the vehicle.
- f) The vehicle has been stored or transported in a way that is not in accordance to the corresponding technical requirements.
- g) The vehicle has been used for special purposes other than ordinary use, such as competition, races or record breaking attempts.
- h) The vehicle has been directly or indirectly damaged as a result of a fall or an accident.

Warranty exclusions

The following items are not covered by this Warranty:

- a) Worn parts, including, without any limitation, spark plugs, batteries, petrol filters, oil filter elements, (secondary) chains, engine output pinions, rear sprockets, air filters, brake discs, brake pads, clutch plates and discs, bulbs, fuses, carbon brushes, footrest rubbers, tyres, inner tubes, cables and other rubber components
- b) Lubricants (for example, oil, grease, etc.) and working fluids (for example, battery liquid, coolant, etc.)
- c) Inspection, adjustments and other maintenance tasks, as well as all kinds of cleaning work
- d) Damage to the paint-work and consequent corrosion due to external causes, such as stones, salt, industrial fumes and other environmental impact, or inadequate cleaning with inappropriate products.

- e) Any damages caused as a result of the defects, as well as any expenses incurred either directly or indirectly as a consequence of the defects (for example, communication costs, accommodation expenses, car hire costs, public transport costs, breakdown truck fees, courier costs, etc.), as well as other financial losses (for example, those caused by the loss of the use of the vehicle, loss of income, time lost, etc.)
- f) Any acoustic or aesthetic phenomenon that does not significantly affect the condition or use of the motorcycle (for example, small or hidden imperfections, noise or vibrations that are normal in use, etc.)
- g) Phenomena that are the result of the ageing of the vehicle (for example, discolouring of painted or metallic coated surfaces).

Various

- 1.- GG shall have the prerogative to decide, at its own discretion, whether to repair or replace defective parts. Where parts are replaced, ownership of the parts removed shall pass to GG without any other consideration. The GG authorised dealer, to whom the making good of the defects has been entrusted, is not authorised to make any declarations that are binding on GG.
- 2.- In case of doubt regarding the existence of a defect, or a visual or material inspection is required, GG reserves the right to demand the return of the parts which are the object of a claim under Warranty, or to arrange an inspection of the defect by an expert from GG. Any additional obligations arising out of guarantees on parts replaced free of charge, or any other service rendered free of charge, are excluded from the effects of this present warranty. The Warranty on parts replaced within the Warranty Period will end at the expiry date for the Warranty Period of the product concerned.
- 3.- Should it prove to be the case that a defect can not be repaired, the purchaser guaranteed shall have the right to the cancellation of the contract (payment of compensation) or a partial refund of the purchase price (discount), instead of repairing the motorcycle.
- 4.- Any claims against Warranty by the purchaser under the terms of the sale contract with the corresponding authorised dealer shall not be affected by the terms of this present Warranty. Neither will this present Warranty affect those additional contractual rights acquired by the purchaser under the general commercial terms and conditions of the authorised dealer. However, such additional rights may only be exercised through claims against the authorised dealer.
- 5.- Should the purchaser resell the product within the Warranty Period, the duration and conditions of the present Warranty will remain unaltered, in such a way as that the rights to make claims under the present Warranty in accordance with the terms and conditions set out in this present document shall be transferred to the new owner of the motorcycle.



GASGAS

RECOMIENDA EL USO DE ACEITE:
RECOMMENDS THE USE OF OIL:
RECOMMANDE L'USAGE DE L'HUILE:
CONSIGLIA L'USO D'OLIO:
EMPFIHLT DEN GEBRAUCH VON ÖL:



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