

# OPERATORS MANUAL

## RS3 50

**RIEJU S.A.** is very grateful for the trust you have placed in our company and congratulate you on your excellent choice. **RIEJU S.A.** collaborates in the conservation of the environment: **eco+** The owner's manual is written in **basic format** that explains the basics of your new RS3 50.

In the web site **[www.riejumoto.com](http://www.riejumoto.com)** (model RS3 50) you will find extra information about this machine, required maintenance operation & accessories.

Please always ensure you read the operators manual thoroughly before attempting to operate the machine.







**RIEJU SA** is grateful for the confidence you have put in their company & would like to congratulate you on your choice of motorbike.

The **RS3 50** model is the result of the long experience of **RIEJU SA** for developing generations of quality mopeds.

This owner's manual provides essential data and instruction on the correct use and maintenance of this moped, you should read thoroughly the instructions and information contained within this operators manual.

Please note that the life of the motorbike depends upon its use and the maintenance that you provide it. Maintaining it in perfect condition will reduce future repair costs.

This manual should be considered as part of the motorbike and should remain with the vehicles basic tools just in case of change of ownership.

For any eventuality please consult a **RIEJU** dealer who will assist you at all times or alternatively access our website [www.riejumoto.com](http://www.riejumoto.com)

Remember for the proper functioning of the motorbike you should always use **genuine original RIEJU parts**.



## CONTENTS

DESCRIPTION OF THE MOPED	12
DELIVERY OF THE MOPED	13
IDENTIFICATION OF CHASSIS NUMBER	14
ENGINE IDENTIFICATION NUMBER	14
IDENTIFICATION LABEL	15
IDENTIFICATION OF THE MOPED (right side)	16
IDENTIFICATION OF THE MOPED (left side)	17
INSTRUMENTS AND CONTROLS	18
INSTRUMENTS AND INDICATORS	19
Ignition lock	19
Steering lock	19
Dashboard instruments	20



## MAIN ELEMENTS OF THE MOPED

Light switch	23
Indicator switch	23
Horn switch	24
Choke control	24
Ignition switch	25
Open and close driver seat	26
Open and close passenger seat	27
Throttle grip	28
Clutch lever	28
Front brake	29
Rear brake	29
Gear change pedal	30
Battery	30
Fuse	31
Fuel tank and fuel cap	32
Oil tank	33
Tyres	34



Stand	35
Tool kit/tool kit	36
<b>CHECKS TO BE CARRIED OUT BEFORE OPERATING</b>	
Table of checks to be done	37
Indicator digital	39
<b>SAFETY WARNINGS AND PRECAUTIONS</b>	
Starting the engine	48
Equipment	49
Starting your engine for the first time/running in	49
Acceleration	49
Braking	50
Stopping	50
Carburettor	50
<b>MAINTENANCE</b>	
Maintenance chart	51



## HEADLIGHT

Bulb replacement ..... 52

Headlight adjustment for road ..... 53

## LIGHT BULLIGHT BULB

Replacing side light bulb ..... 54

## INDICATORS

Replacing the bulb ..... 55

## TAIL LIGHT

Tail light replacement (leds) ..... 56

## THROTTLE

Checking and adjusting the throttle cable ..... 57

## CLUTCH LEVER

Control and clutch lever adjustment ..... 58

## GEAR CHANGE PEDAL

Control and adjustment of the gear pedal ..... 59

## FRONT WHEEL

## FRONT WHEEL

Removing the front wheel ..... 61

Front wheel assembly ..... 62



## REAR WHEEL

Removing the rear wheel ..... 63

Rear wheel assembly ..... 64

## CHAIN ADJUSTMENT AND TENSION

Control y regulación ..... 65

## FRONT BRAKE SYSTEM

Front brake disc ..... 67

Front brake lever adjustent ..... 67

Checking and topping up front brake fluid level ..... 68

## REAR BRAKE SYSTEM

Rear brake disc ..... 69

Adjusting the rear brake lever ..... 69

Fill level control and rear brake fluid ..... 70

## BRAKE CONTROL FRONT AND REAR

71

## SPARKPLUG

Checking and replacing the sparkplug ..... 72

## BATTERY

Checking the battery ..... 73

Battery replacement ..... 74





<b>FUSE</b>	
Check and replacing the fuse	75
<b>AIR FILTER</b>	
Cleaning and replacing the air filter	76
<b>COOLING SYSTEM</b>	
Checking and filling the coolant level	77
<b>MOTOR OIL</b>	
Checking and filling the engine oil level	78
Engine oil replacement	80
<b>CLEANING AND STORAGE</b>	
CLEANING	81
LONG-TIME STORAGE	82
<b>TECHNICAL DATA</b>	83
<b>OFFICIAL LISOFFICIAL DISTRIBUTOR LIST</b>	88



## DESCRIPTION OF THE MOPED

This moped incorporates a MINARELLI – NG (New Generation) engine with single cylinder two-stroke liquid-cooled, manual gear box with electric start. Its displacement is 50 cubic centimetres, with a diameter of 40.3 mm bore and a stroke of 39 mm.

The ignition is carried out through an electronic generator 120 W 12-volt AT coil.

Clutch is multiple disc of steel and friction with springs of constant pressure, submerged in oil bath.

The engine is housed in a dual perimeter chassis of triangular section to provide great strength and handling with conical type bearings.

Headlights are dual poliepsoidal beam.

Speedometer & instrument panel is digital.

The front suspension consists of a hydraulic inverted fork with 35 mm rods. or 41 mm in diameter (depending on model). The rear suspension consists of a Mono-Shock damper. The front disc brake is 280 mm. diameter with a double-piston caliper.

The rear brake is 220 mm. in diameter.

Wheels are aluminium 17-inch.



## DELIVERY OF THE MOPED (PRE DELIVERY INSPECTION & HANDOVER)

**EXUSER MANUAL** – very important this explains in detail the essential functions of the moped, safe use and important maintenance practices.

**WARRANTY REGISTRATION** – complete the necessary information, pass a copy to the owner, and return a copy immediately to your RIEJU distributor.

**OPERATION** – Explain the functions & correct handling of the moped.

**ADJUSTMENT of mirrors** – Set to the correct position for the user.

**ADJUSTMENT CLUTCH LEVER** – Adjust to suit.

**REAR BRAKE LEVER ADJUSTMENT** – Adjust to the correct height for the user.

**GEAR LEVER adjustment** – Adjust to the correct height for the user.

**TOOL KIT** – Indicate the location and check the content.

**WARNINGS** – Explain the importance of warning labels to ensure a long life of the moped.

**KEYS** – deliver the full set and recommend making a note of the key item reference.

**FIRST SERVICE** – explain the importance of the service at 500 km / 310 miles and the ongoing service schedule.

**PERIODIC MAINTENANCE** – Explain the need of the periodic maintenance.



## IDENTIFICATION OF CHASSIS NUMBER

The chassis number is located on the main steering head.

This identification of chassis number is important to confirm the characteristics of your machine, registration, etc and it should be quoted when requesting spare parts.



## ENGINE IDENTIFICATION NUMBER

The engine serial number is located on the top, left side (under the carburettor).

The engine number will serve as a reference when requesting spare parts from the dealership.



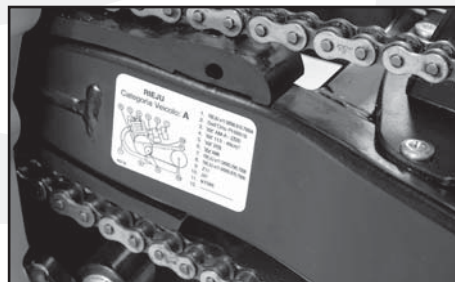
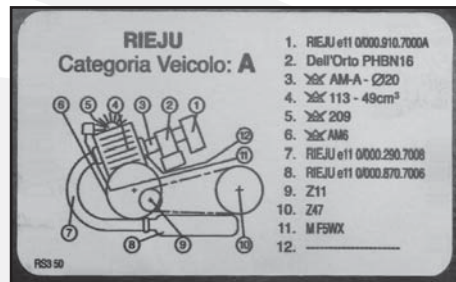


## IDENTIFICATION LABEL

Under directive 97/24/EC an ID Label containing the main components of the moped is located on the left front section of the swing arm.

This label confirms the original components as detailed below:

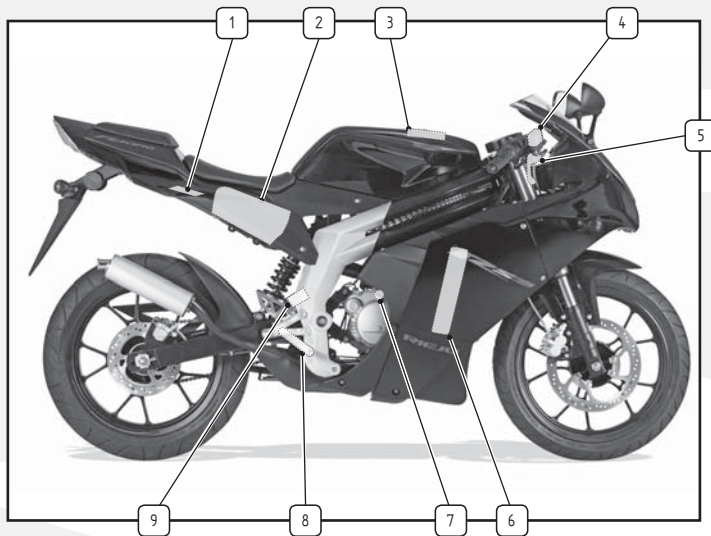
- 1 - Air filter.
- 2 - Carburettor.
- 3 - Inlet manifold.
- 4 - Cylinder cc.
- 5 - Cylinder Head.
- 6 - Engine crankcase ID.
- 7 - Exhaust header.
- 8 - Exhaust silencer.
- 9 - Drive sprocket.
- 10 - Rear sprocket.
- 11 - CDI, Ignition system.
- 12 -





## IDENTIFICATION OF THE MOPED (right side)

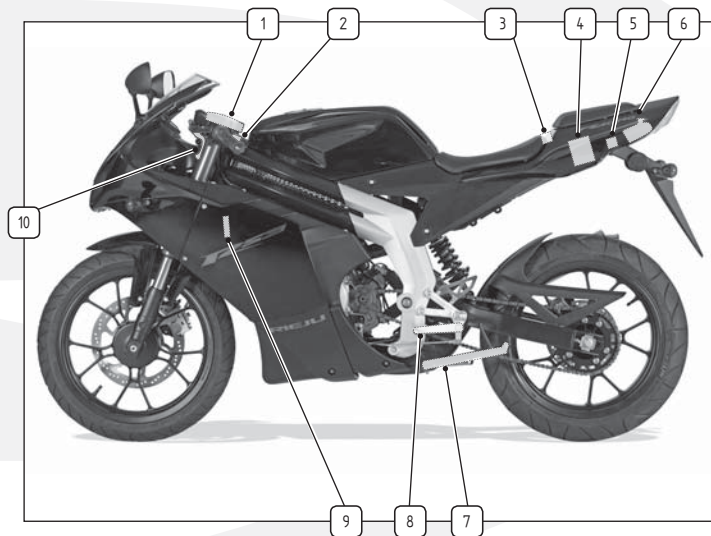
- 1 - Tool kit.
- 2 - Air filter.
- 3 - Fuel tank cap.
- 4 - Front brake reservoir.
- 5 - Front brake lever.
- 6 - Radiator.
- 7 - Transmission oil filling cap.
- 8 - Rear brake lever.
- 9 - Rear brake reservoir.





## IDENTIFICATION OF THE MOPED (left side)

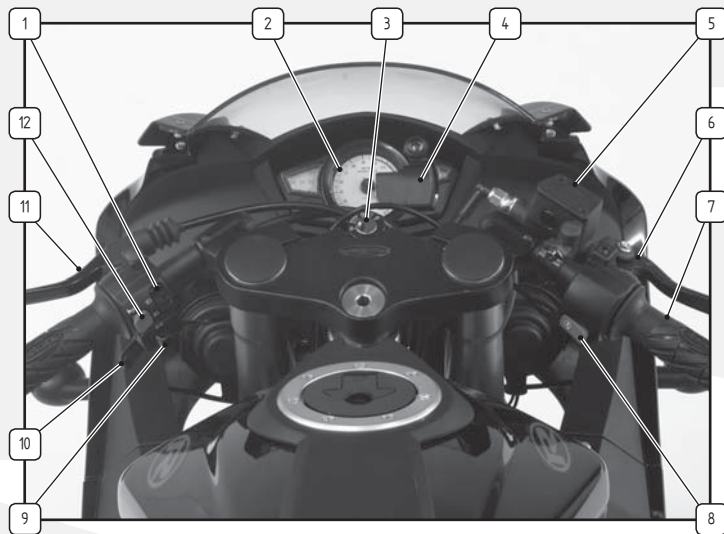
- 1 – Instruments and indicators.
- 2 – Ignition switch.
- 3 – Seat lock.
- 4 – Battery.
- 5 – Fuse.
- 6 – Oil tank.
- 7 – Stand.
- 8 – Gear change pedal.
- 9 – Horn.
- 10 – Clutch lever.





## INSTRUMENTS AND CONTROLS

- 1 – Light Dip Switch.
- 2 – Digital Instrument Dashboard.
- 3 – Ignition Barrel.
- 4 – Digital Display (MPH)  
(Programming page 39)
- 5 – Front Brake Fluid Reservoir.
- 6 – Front Brake Lever.
- 7 – Throttle Grip.
- 8 – Starter Button.
- 9 – Indicators.
- 10 – Choke/Cold start.
- 11 – Clutch Lever.
- 12 – Horn.





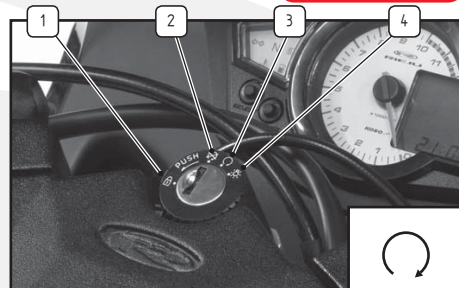


## INSTRUMENTS AND INDICATORS

### IGNITION LOCK



The ignition lock is located in the middle of the top yoke. A set of keys are given for the ignition, blocking the steering, petrol tank, and seat lock.

- 1 - Steering lock, switches off lights and system electrics.
- 2 - Turns off system electrics.
- 3 - Electrical system is activated and start-up.
- 4 - Activates the electrical system and low beam lights and start-up.



### STEERING LOCK

To lock the steering follow these steps:

- 1 - Turn the handlebars far over to the left.
- 2 - Place the key in this position .
- 3 - Press the key and turn to the lock position .
- 4 - Remove key.



## DASHBOARD INSTRUMENTS

### 1 – Tachometer.

Indicates the number of engine revolutions per minute.

### 2 – Tachometer Warning Light.

Flashes red when engine revolutions reach 10,000 per minute.

### 3 – Speedometer.

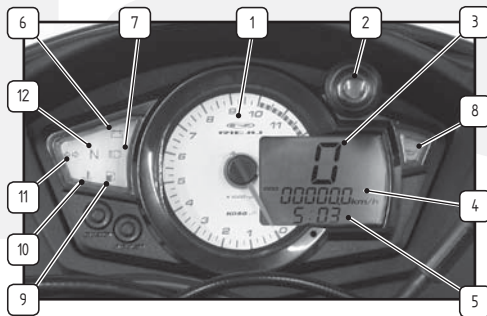
The speedometer indicates speed in KM/H or MPH.

### 4 – Odometer

Indicates total kilometres/miles travelled and also partial kilometres/miles travelled.

### 5 – Clock.

Indicates the time in hours and minutes





## 6 – Battery Indicator.



Red indicator light flashes when the battery needs charging.

## 7 – Beam indicator.

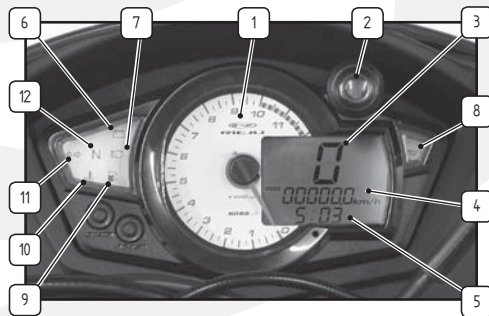


Blue indicator lights up when the headlamps are on.

## 8 – Oil Reserve Indicator



The red indicator lights up when the level of motor oil is low i.e. When it reaches the reserve level. It is vital when the light comes on you fill up the oil tank as soon as possible. If the tank is not filled the engine could be seriously damaged.





### 9 - Fuel Indicator.



The fuel indicator lights up yellow when the fuel level is below the reserve, fill up as soon as possible to prevent running out of fuel.

### 10 - Temperature indicator



Indicator lights up red when there is an excessive temperature increase due to insufficient ventilation or low coolant levels in the radiator.

### 11 - Direction Indicators.

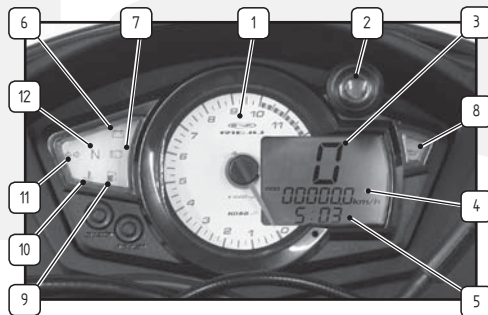


Indicator flashes green when indicator lights are operated.

### 12 - Neutral Indicator.



The indicator will light up green when the gear change pedal has selected neutral.





## MAIN ELEMENTS OF THE MOPED

### LIGHT SWITCH

The light switch has two positions:

- Low main beam (1)  - High Beam (2) 



#### CAUTION

Only use the high beam if there are no vehicles or people in front or use in quick bursts to signify danger or emergency.

### INDICATOR SWITCH

Indicator switch with three positions:

- Intermittent left (1)
- Position at rest (2)
- Intermittent rights (3)

Set the switch to right or left and press the button to cancel.





## HORN SWITCH

Press the button (1) to sound the horn



### CAUTION

Remember that is forbidden use the horn near to hospital, and only you can use it in danger o emergency situations.

## CHOKE CONTROL

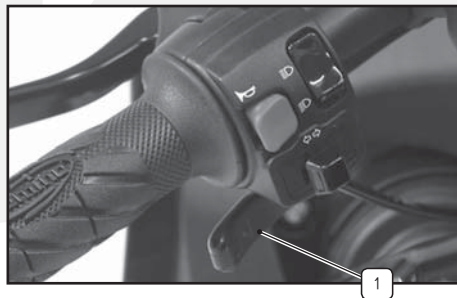
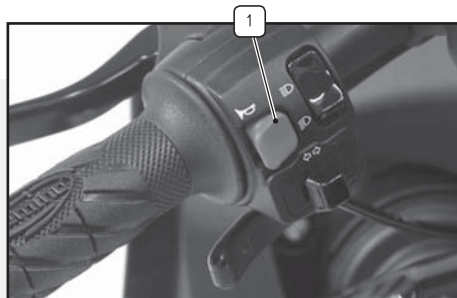
Press the lever (1) to the end position to start the engine when the bike is cool.

With the lever press push the start button. Once the engine is running take off the choke control an turn the throttle.



### ATTENTION

When the engine is on the correct running temperature don't push the choke control, use it in this situation can produce the incorrect function of the engine.





## IGNITION SWITCH

Use this switch to start the engine.

To start the engine push the switch (1) once the engine is on turn a little the throttle grip (2).



### CAUTION

Check the engine is in neutral position.



### ATTENTION

When the engine is On take off the ignition switch.



### ATTENTION

Don't use the ignition switch when the engine is running, use the switch in this situation can produce damages on the starter engine with great technical and economic problems for the customer.





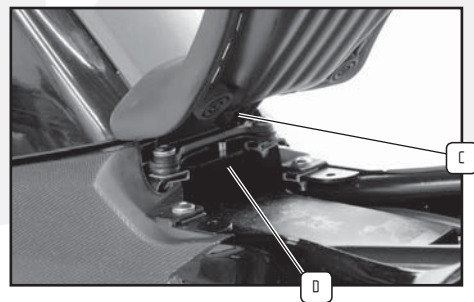
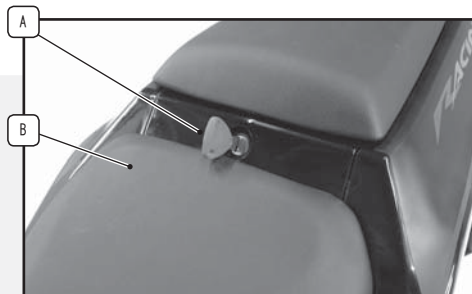
## OPEN AND CLOSE DRIVER SEAT

To open the seat:

- 1 - Put the key on the keyhole
- 2 - Turn 45° to right position.
- 3 - Take out the key of the hole
- 4 - Pull out the seat (B) by the rear side.

To close the seat :

- 1 - Put the central guide (C) under the support (D)
- 2 - Go down the rear side of the seat and check that is correctly close.



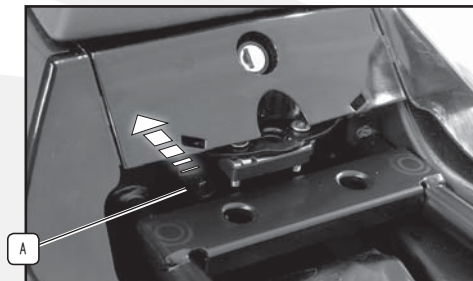




## OPEN AND CLOSE PASSENGER SEAT

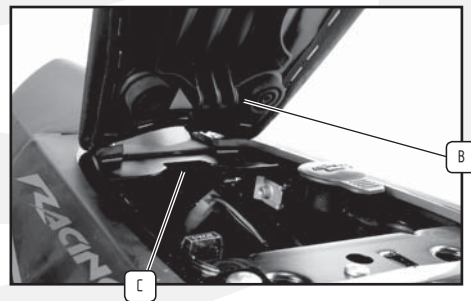
To Open the passenger seat you must open the main seat, once the main seat is out:

- 1 - Push the lever (A) to the bottom.
- 2 - Pull out the passenger seat by the front side.



To close the passenger seat:

- 3 - Put the central guide (B) outside of the support (C).
- 4 - Go down the front side of the seat and check that it is correctly close.

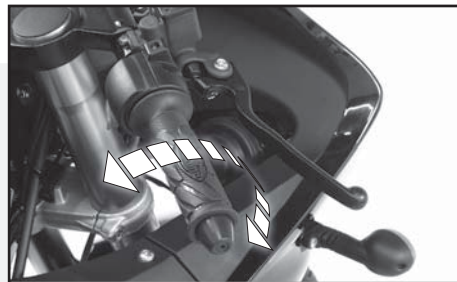




## THROTTLE GRIP

Turn the throttle grip to accelerate. Check for correct operation by rotating the grip and verifying correct free-play

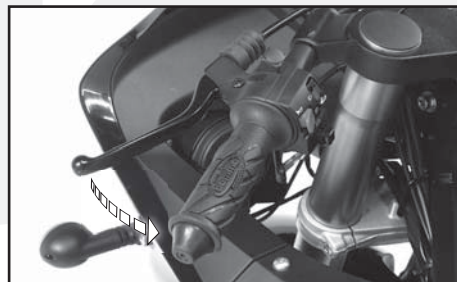
The grip should firmly return when the accelerator is released



## CLUTCH LEVER

The clutch is located on the left-hand side of the handlebar.

To engage the clutch, the lever should be pressed towards the grip or handlebar.





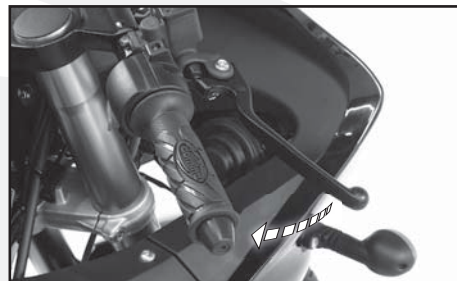
## FRONT BRAKE

The front brake is operated by a lever on the right handlebar.  
When activated the rear brake light is illuminated.



### CAUTION

Use the brake lever gently and gradually to prevent front wheel from locking up.



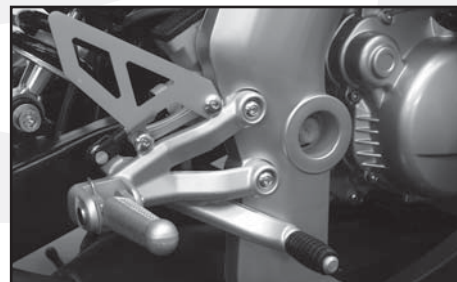
## REAR BRAKE

The rear brake is operated by a foot lever on the lower right of the engine.  
When activated the rear brake light is illuminated.



### CAUTION

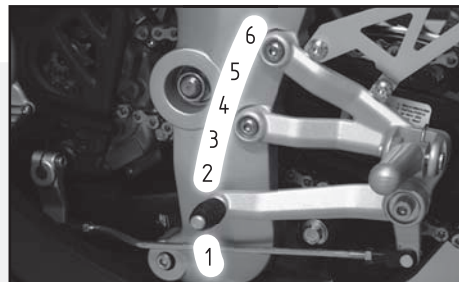
Use the foot pedal gently and gradually to prevent rear wheel from locking up.





## GEAR CHANGE PEDAL

This can be found on the left side of the motorbike, it's operated by the foot through its full range of travel and letting it return to its rest position before changing gear again. To engage first gear, the pedal should be pressed down with the foot, the other 5 gears are achieved by raising the pedal by placing the foot underneath the pedal and lifting. Neutral gear is between first and second gear.



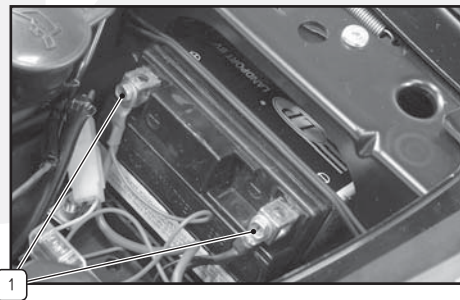
## BATTERY

The battery is placed under the passenger seat.

**(See section OPEN AND CLOSE PASSENGER SEAT)**

Check that the terminals (1) are cleaned and correctly secure.

The battery of the model RS3 50 don't need maintenance.

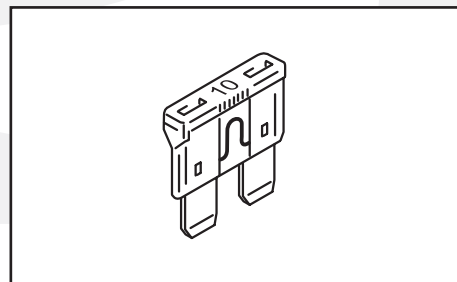
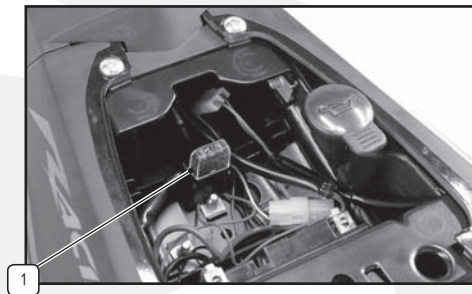




## FUSE

The fuse is placed under the passenger seat.  
(See section OPEN AND CLOSE PASSENGER SEAT)

The fuse (1) is 10 Amps and is located next to the battery.

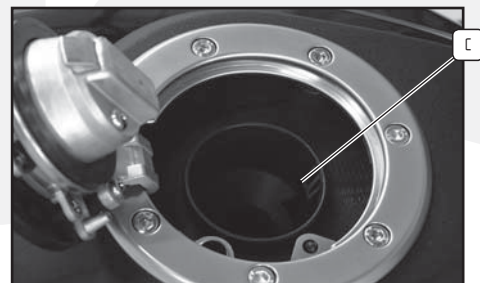
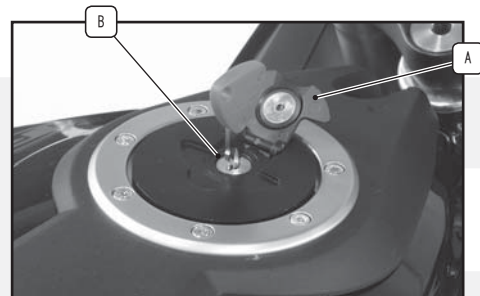




## FUEL TANK CAP

To remove the fuel tank cap you need to use one of the ignition keys. To do this follow these steps:

- 1 - Lift the flap (A).
- 2 - Insert the key into the lock (B).
- 3 - Turn the key 90 degrees clockwise.
- 4 - Pull the cap back.



### ADVICE

The fuel tank includes a drain (C) to avoid fuel spilling over the reservoir.



### ATTENTION

Always wipe dry any splashing or spills from the bikes plastics. The tank capacity is 12 litres. Remember to always use unleaded petrol 95.



## OIL TANK

The oil filler cap is located underneath the pillion passenger seat.



### ATTENTION

Never let the oil reach empty or it will be necessary to purge the oil pump in order to remove all the air. If this happens, the motor will immediately seize causing expensive repairs.



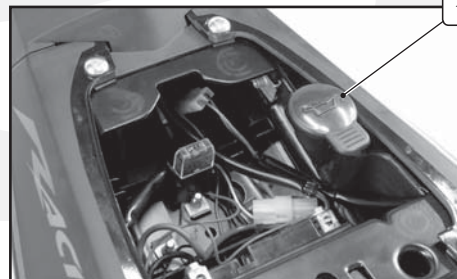
### ATTENTION

When filled or checked make sure that the filler cap is shut securely.



### ATTENTION

Rieju recommends the use of TTS Castrol Oil System Injection. The tank capacity 1,075 litres





## TYRES

The tire pressure directly affects the stability, Moped comfort and braking distance, correct pressures are essential for safe use, therefore, you should check the inflation pressure often.



### ADVICE

Do not overload the moped as well as losing stability it increases the tyre wear.



### ADVICE

When the tyre pressure is too high it fails to absorb the impact of the road surface, this can have adverse effects on stability and comfort.



	dimensions	bar
Front	100/80 - 17"	1,9 kg / cm <sup>2</sup>
Rear	130/80 - 17"	2,2 kg / cm <sup>2</sup>

version PRO	dimensions	bar
Front	110/80 - 17"	1,9 kg / cm <sup>2</sup>
Rear	140/70 - 17"	2,2 kg / cm <sup>2</sup>





## STAND

The stand (1) is located under the gear lever on. To deploy the stand use the foot lever (2).



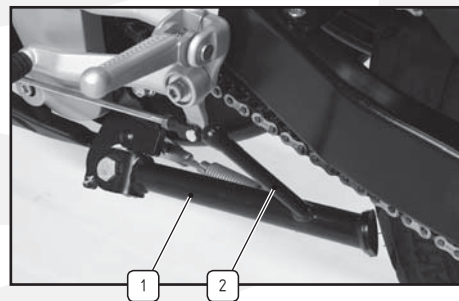
### ADVICE

When using the stand make sure that it is placed on a firm level surface to support the moped fully.



### ATTENTION

Do not let go of the moped until your sure that is firmly on the stand.





## TOOL KIT

The tool kit is located underneath the drivers seat.

(See section OPEN AND CLOSE PASSENGER SEAT)

It consists of:

- 1 Allen Keys hexagonal de 4
- 1 Allen Keys hexagonal de 6
- 1 Allen Keys hexagonal de 8
- 1 Flat Key 6,5 mm
- 1 Key dobble tip cross
- 1 Allen cup 10 mm
- 1 key for allen cup of 10 mm
- 1 tubular key of 21 mm for spark





## CHECKS TO BE CARRIED OUT BEFORE OPERATING

### Table of checks to be done

Check the following before using your moped RS3 50.

COMPONENT	CHECK	ACTION IF NECESSARY . . .
Oil Tank	The level	Refill
Throttle Grip	The free-play	Adjust and lubricate as necessary
Tyres	The pressure, wear and general condition	Inflate or replace
Clutch	Check free-play and operation	Adjust to 1 mm free-play
Chain	Tension, condition and lubrication	Lubricate or replace
Battery	The charge	Charge it
Steering	Check the steering is smooth Check free-play Check there are no gaps Headlight	



COMPONENT	CHECK	ACTION IF NECESSARY . . .
Headlights	Check bulb	Replace
Brake Light	Check bulb	Replace
Direction Indicators	Check bulb	Replace
Instrument Panel	Check bulb	Replace
Fuel Level	Check level	Refill
Motor Oil	Check oil level	Refill
Brake discs	Check if there damaged or dirty/corroded	Replace & or Clean
Brakes	Check the operation of rear brake pedal Check the play in the front brake lever Check brake fluid levels	Adjust Refill



These checks should be carried out each time the motorbike is used, a full check over requires no more than a few minutes. If during these checks you find a problem it should be rectified before the bike is used again.



## INDICADOR DIGITAL

### 1 – Velocímetro.

El velocímetro indica la velocidad en Km/h. o MPH.

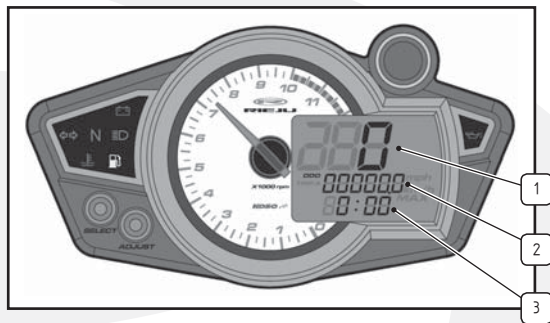
### 2 – Kms. / Millas

Indicador de los Kms. o Millas total recorridos.

Indica también los Kms. o Millas parciales.

### 3 – Reloj.

Indicador de la hora y minutos.



## MARK MEANING

### NOTE

You could get the installation details from the information behind the mark.



Some processes must be followed to avoid the affection caused by wrong installation.

PRESS



PRESS THE BUTTON  
3 SECONDS





## 2 - THE CLOCK SETTING

Press the **Select** button x **3 seconds** in main screen to enter the clock adjust screen.

Press the **select** button to choose the number you want to set.

Ex. Now the time is 0:00.



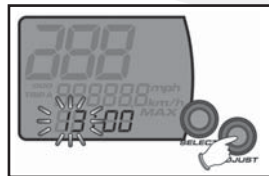
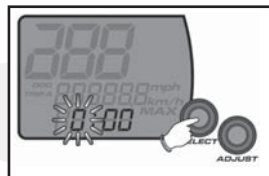
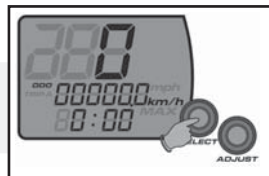
Now the hour number is flashing!



The clock is 24 H.

Press the **Adjust** button to enter the minute setting

EX. Now the hour is changed from 0 to 13.





Press the **Select button** to choose the number you want to set.



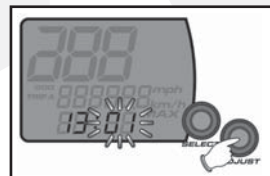
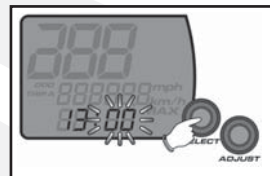
Now the minute number is flashing!

Press the **Select button** again to return to the main screen.

EX. Now the minute is changed from 0 to 1.

**NOTE**

When you leave the screen, the setting is saved.





### 3 - THE TIRE CIRCUMFERENCE SETTING (FOR CHANGING DIFFERENT SIZE TIRE)

In main screen, press down both **Adjust & Select** buttons X 3 seconds to enter the tire circumference setting.

**EX. The tire circumference is 1,960 mm.**

In setting screen, press the **Adjust** button to move to the number you want to set.



Now the 1 is flashing!

**NOTE**

The tire circumference setting range:

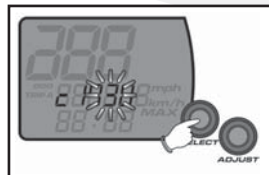
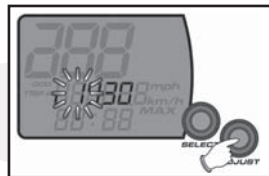
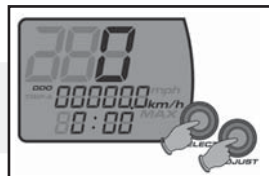
1,000 mm ~2,500mm.

Adjust unit: 1 mm.

Press the **Select** button to choose the number you want to set.



Now the number you are setting is flashing!





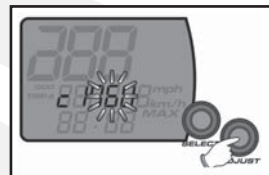


Press the **Adjust button** 5 times to return to the main screen.

EX. The setting is changed from 1,930 mm to 1,960mm

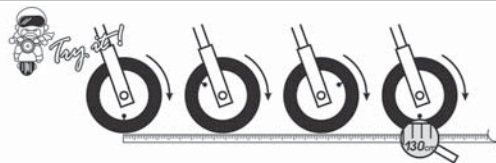
**NOTE**

When you leave the screen, the setting is saved.



**P.S.**

You could define the valve as the starting point and the terminal point to measure the wheel circumference with a measuring tape.





## 4 – SPEED UNIT SETTING

In main screen, press down both **Adjust** & **Select** buttons X 3 seconds to enter the tire circumference setting.

In the setting screen, press the **Adjust** button for 4 times, and then you will enter the speed unit setting.

Press the **Select** button to choose the speed unit you need.

EX. The original setting is km/h.



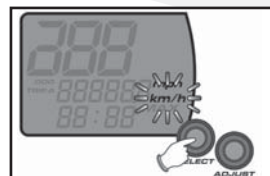
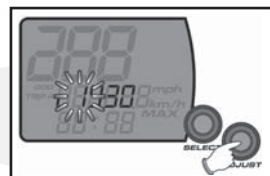
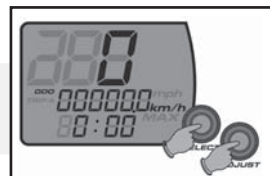
Now the unit is flashing!



You could choose between km/h & MPH.



The odometer and trip meter will change together with the speed unit setting.





Presione el **botón Adjust 3 veces** para volver a la pantalla principal.

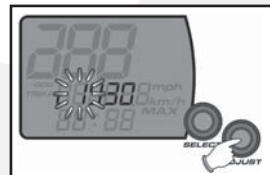
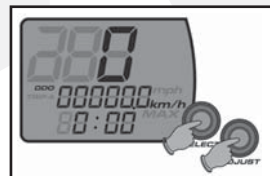
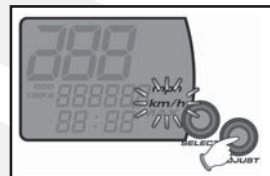
**NOTE**

Cuando abandone la pantalla, el ajuste se guardará.

## 5 – AJUSTE EL SENSOR DE PULSO.

En la pantalla principal, presione hacia abajo ambos **botones Adjust y Select** durante 3 segundos para entrar el ajuste de la circunferencia del neumático.

En la pantalla de ajuste, presione el **botón Adjust 5 veces**, y luego entre el ajuste del sensor de pulso.





Press the **Select button** to choose the number you want to set.

EX. The current setting is 5 pulses.



Now the 5 is flashing!

**NOTE**

The setting range: 1~12 pulses.

Setting unit: 1 pulses.

Press the **Adjust button** 2 times to return to the main screen.

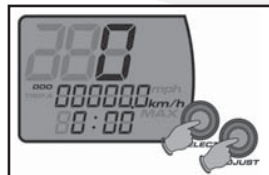
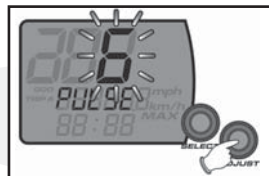
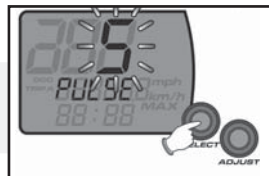
EX. The sensor pulses is changed from 5 to 6.

**NOTE**

When you leave the screen, the setting is saved.

## 6 - THE RPM PULSE SETTING

In main screen, press down both **Adjust & Select buttons X 3 seconds** to enter the tire circumference setting.





In the setting screen, press the for **Adjust button** 6 times, and then you will enter the RPM pulse setting.

Press the **Select button** to choose the number you want to set.

EX. The current setting is 4 pulses.



Now the 4 is flashing!



The setting range: 1~6 pulses.

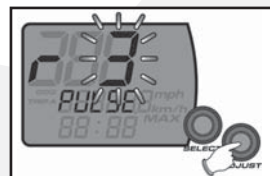
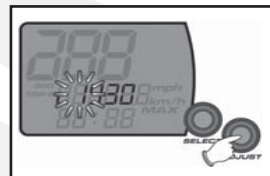
Setting unit: 1 pulse.

Press the **Adjust button 2 times** to return to the main screen.

EX. The RPM pulse setting is changed from 4 to 3.



When you leave the screen, the setting is saved.





## SAFETY WARNINGS AND PRECAUTIONS

It is very important that you know your moped and how it operates



### PRECAUTION

Remember do not leave the engine running in an enclosed space as the exhaust gases may be toxic and may result in serious health consequences.

## STARTING THE ENGINE

If the motor is cold, use the choke control, located on the bike's lower left handlebar.

Turn the key clockwise, check that the engine is in neutral, release the accelerator and press the electric start.

Remember not to press the electric start switch for more than five seconds at a time.

A few seconds after the engine has started up the choke should be returned to its original position.

Then press the clutch and engage first gear, progressively releasing the clutch lever as the accelerator is smoothly operated.

Do not fully accelerate or operate the engine at a high rev count until it is sufficiently heated up.



### ATTENTION

Before moving off, you should always allow the engine sufficient time to warm up and never accelerate hard when the engine is cold. This will guarantee longer engine life.



## EQUIPMENT



### ADVICE

Choose a good quality helmet for use with the motorcycle.

Use comfortable clothing that will not get caught anywhere in the motorcycle when riding

## STARTING YOUR ENGINE FOR THE FIRST TIME/RUNNINGIN

The most important time of your motorbikes life is between 0 and 500 Kms. For this reason it is strongly recommended that you carefully read the following instructions:

During the first 500 Kms you shouldn't overload the motorbike because the motor is new and the different parts are wearing and polishing against each other until they work perfectly together.

During this period of time, prolonged use at high revolutions should be avoided, along with conditions which could lead to excessive engine heating and shorter life span.

## ACCELERATION

The speed is adjusted by opening or closing the throttle

Rotating the throttle backwards will increase the speed, where-as rotating forwards will reduce the speed.



## BRAKING

Close the accelerator and progressively operate both the front and rear brakes progressively.



### WARNING

Sharp braking can cause skids or bouncing.

## STOPPING

Close the accelerator, operate both brakes simultaneously. When speed has been reduced fully depress the clutch lever. Turn the engine off by removing the ignition key.

## CARBURETTOR

This is one of the most important components of the engine as it results in good engine performance when working correctly. The carburettor is where petrol and air are mixed, poor carburettor operation means poor engine performance, which in turn could result in damaged engine parts. It is therefore, recommended that its adjustment and settings are checked and corrected at an authorised RIEJU dealer.





## MAINTENANCE

MAINTENANCE OPERATIONS	1 <sup>st</sup> Revision 500 kms.	2 <sup>nd</sup> Revision 3.000 kms.	Rev. each 3.000 kms.
Brake system checks	•	•	•
Transmission oil level checks	Exchange	•	Exchange
Chain tension and wear checks	•	•	•
Suspension Checks	•		•
Check, adjust and lubricate controls and cables	•	•	•
Cleaning and greasing of air filter	•	•	•
Inspect and adjust carburettors	•		•
Inspect and adjust the sparkplug or replace it	•	•	•
Inspect and adjust the sparkplug or replace it	•		•
All nuts and bolts for the chassis and plastics	•		•
Check the electrical System	•		•
Inspect segment wear			•
Inspect radiator water levels	•	•	•
Inspect exhaust system			•
Check terminals and battery condition	•	•	•
Check oil pump operation	•		•

• Perform specified operation



## HEADLIGHT BULB REPLACEMENT

To remove the bulb please follow these steps:

- 1 - Remove the dust seal (A) by pulling the 2 flaps (B).
- 2 - Unplug the bulb connector (C).
- 3 - Remove the clip (D) that holds the bulb
- 4 - Remove the bulb

Bulb type- 12V 55 W — H3



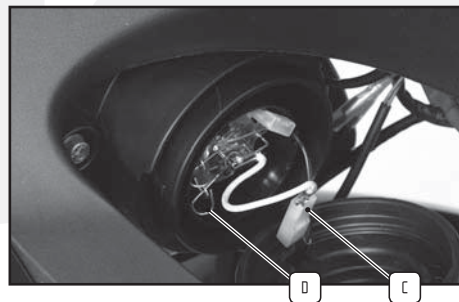
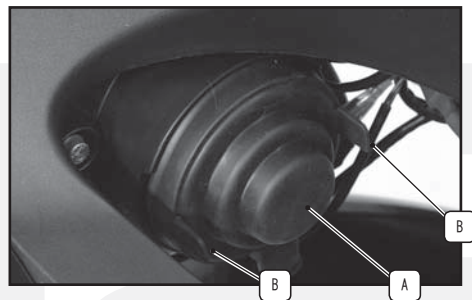
### ADVICE

Follow the manufacturer's advice for the replacement of the bulb.



### ADVICE

Dispose of the old bulb by recycling it.





## HEADLIGHT ADJUSTMENT FOR ROAD

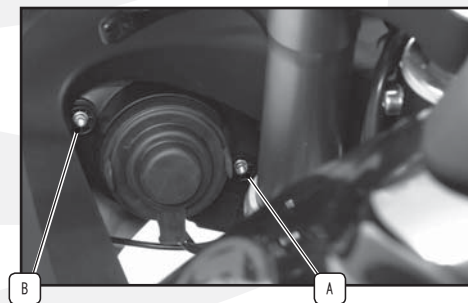
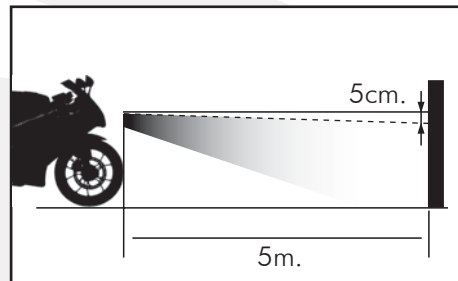
The access for the headlight adjustment is just below the instrument panel beneath the dome.

Screw (A) up / down adjustment.

With the 5mm socket, turn the screw clockwise to lower the lights and anti clockwise to elevate the headlight.

Screw (B) right / left adjustment.

With the 5 mm socket, turn the screw clockwise to move the light to the right and anti-clockwise to move it to the left.





## LIGHT BULB

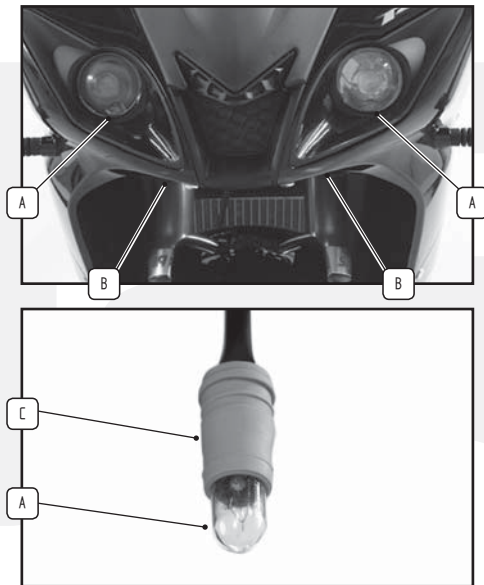
### REPLACING SIDE LIGHT BULB

To remove the bulb (A) reach into the holes indicated as (B) in the picture.

1 - Pull the bulb holder (C) to remove the side headlights.

2 - Pull out the bulb (A) holding the bulb socket (C).

**Bulb Type: 5V - 12W**





## INDICATORS

### REPLACING THE BULB



#### ATTENTION

Make sure the battery is disconnected during this operation.

- 1 - Loosen the screw (A) that holds the lens (B).
- 2 - Remove the clear lens (B).
- 3 - Remove the orange lens (C).
- 4 - Press the bulb (D) and turn it clockwise to remove.

**Bulb Type: 12V – 10W**



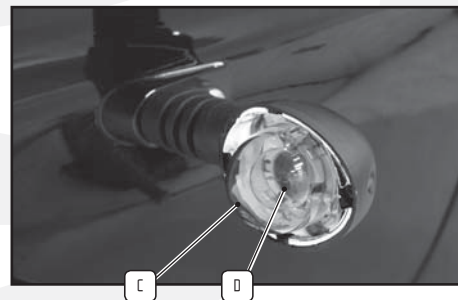
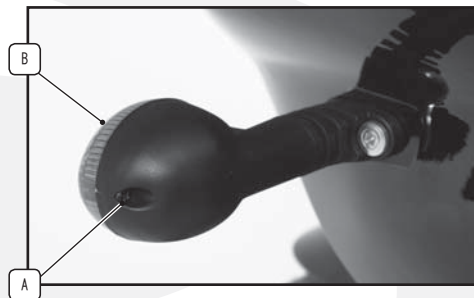
#### ATTENTION

The proper operation of lighting and signaling is a primary factor of safety and law. Before departure and during use of the vehicle, the driver must be careful to ensure that all lamps and indicators are functioning correctly.



#### ADVICE

Discard the old bulb by recycling,





## TAIL LIGHT

### TAIL LIGHT REPLACEMENT (LEDs)



#### ATTENTION

Make sure the battery is disconnected during this operation.

1 - Remove the 2 seats.

**(See section open and close passenger seat)**

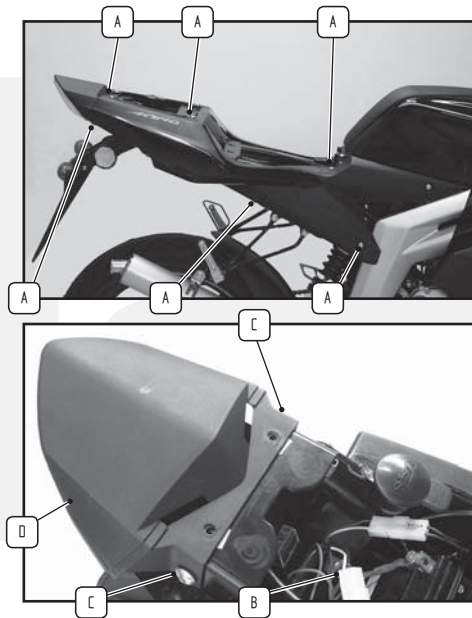
2 - You must remove the two rear side panels, to access the tail light.

3 - Remove screws (A) above and 3 below (A) of each panel.

3 - Disconnect the connector (B) from the light (F).

4 - Remove the 2 screws (C) from the top of the rear panel.

5 - Remove the cover (D).





6 – Remove the bolt (E) whilst holding the light.

7 – Remove the Light (F).

## THROTTLE

### CHECKING AND ADJUSTING THE THROTTLE CABLE

Check for proper operation by turning the handle and verify if there is any free play.

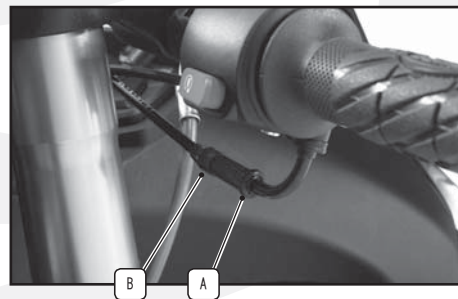
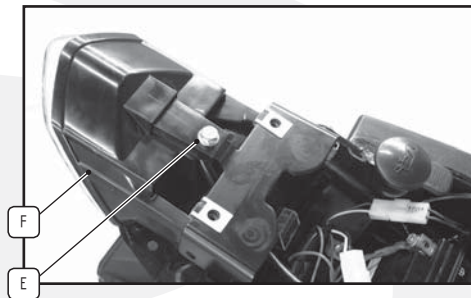


#### ATTENTION

Free play should be between 1mm and 3mm.

The grip should be twisted to apply throttle and return to tick over when released. To adjust free play

- 1 – Loosen the adjuster nuts (A).
- 2 – Move the adjuster nut (B) to load or unload the cable to the correct free play.
- 3 – Re Tighten the adjuster nut (A).





## CLUTCH LEVER

### CONTROL AND CLUTCH LEVER ADJUSTMENT

To increase or decrease the tension on the clutch lever:

- 1 - Remove the rubber (A).
- 2 - Loosen the adjuster nut (B).
- 3 - Move the wheel (C) to load or unload the cable.
- 4 - Re tighten the adjuster nut (B) to set the position.



#### ATTENTION

Normal clutch clearance is 2.5 mm measured at the opening of the tip of the lever.



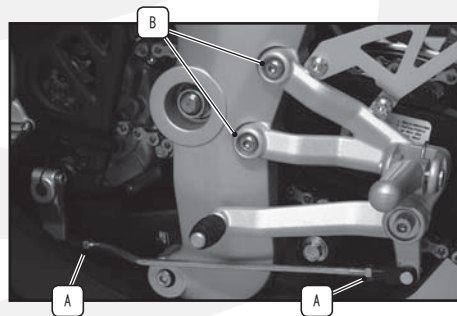


## GEAR CHANGE PEDAL

### CONTROL AND ADJUSTMENT OF THE GEAR PEDAL

To adjust the position of the shifter follow these steps:

- 1 – Loosen the nuts (A).
- 2 – Remove the 2 screws (B) holding the shift lever assembly.
- 3 – Rotate the assembly (support the rod) for height adjustments in either direction.
- 4 – Check if the desired height has been achieved for easy use.
- 5 – Re tighten the 2 screws (B).
- 6 – Set the position by locking nuts (A).





## FRONT WHEEL

Check the condition of the wheels.

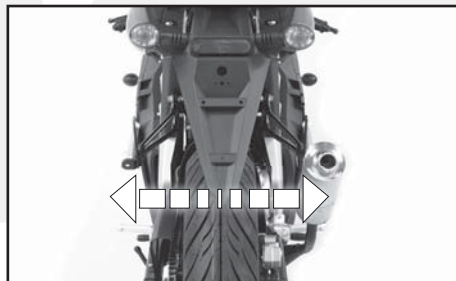
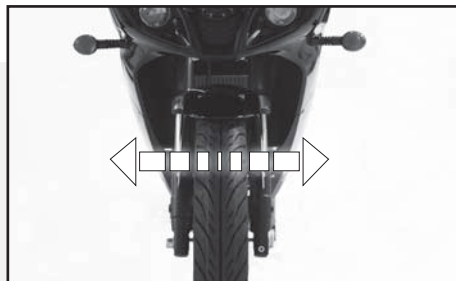
A simple test to detect if the wheels are ready to roll.

Balance the wheel, as shown in the picture, look down both sides check the wheel isn't touching any other components, and also check to see if the wheel has any free-play side to side.



### CAUTION

If you detect any of the wheels have free-play, please contact an official **RIEJU** dealer to get it reviewed.





## FRONT WHEEL

### REMOVING THE FRONT WHEEL



#### CAUTION

Place the motorcycle on a flat and firm before attempting to remove the wheel.



#### ATTENTION

Suspend the moped from the front to ensure the front wheel is off the ground.

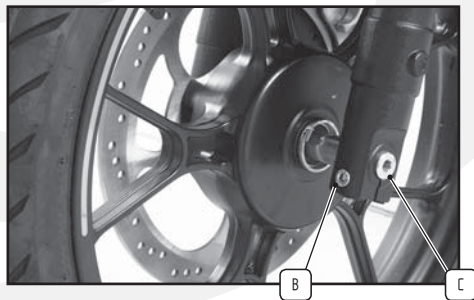
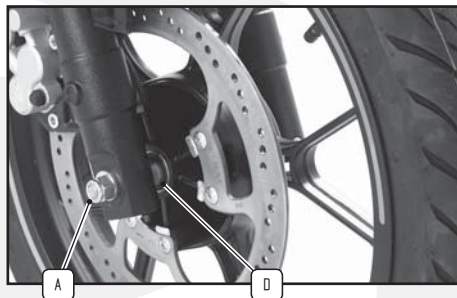


#### ADVICE

Place a wooden block between the end of the fork and the ground to make it easier to replace the tyre. This way makes it easier to line the holes up in the wheel and the forks as well.

To remove the front wheel, follow these steps:

- 1 - Remove the nut (A).
- 2 - Loosen the screw (B).
- 3 - Remove the spindle (C) to release the spacer (D) and the wheel.
- 4 - Remove the wheel.





### ATTENTION

Pay close attention to the correct position of the spacer (D) located on the right side.



### ADVICE

Never operate the brake lever during this operation..



### ADVICE

These operations can be somewhat complicated. Go to an official RIEJU dealer to ensure proper procedure is taken.



## FRONT WHEEL ASSEMBLY



### ATTENTION

Make sure you insert the brake disc between the brake pads on the caliper.



## REAR WHEEL

### REMOVING THE REAR WHEEL



#### CAUTION

Place the motorcycle on a flat and firm surface before attempting to remove the rear wheel.



#### ATTENTION

Suspend the moped from the rear to ensure the rear tyre is off the ground.

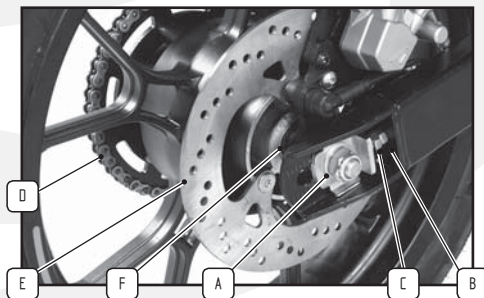


#### ADVICE

Place a wooden block between the rear swing arm and the ground to make it easier to realign the rear tyre with the holes.

To remove the rear wheel, follow these steps:

- 1 - Loosen the nut (A) that secures the rear wheel axle.
- 2 - Loosen the lock nuts (B) of the chain tension.
- 3 - Tighten the screw (C) to the end.
- 4 - Push the wheel so the chain (D) becomes loose.
- 5 - Release the chain (D).
- 6 - Remove the wheel axle, to release the spacer (G).
- 7 - Remove the wheel and the brake disc will exit the brake caliper.





### ATTENTION

Pay close attention to the position of the spacer (G) located on the left side.



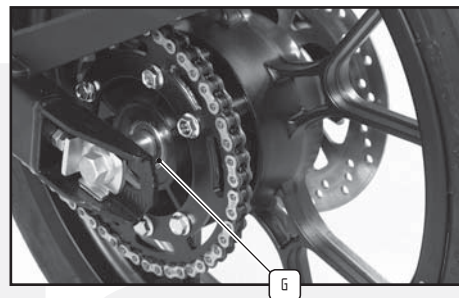
### ADVICE

Never operate the brake lever during this operation.



### ADVICE

Please remember that these operations should be carried out by an official RIEJU service centre.



## REAR WHEEL ASSEMBLY



### ATTENTION

Make sure to insert the brake disc into the pad.

Make sure the chain is slack before replacing the wheel to its position.

(See section TRANSMISSION CHAIN)





## CHAIN ADJUSTMENT AND TENSION CONTROL AND REGULATION

The moped must be positioned vertically with its wheels on the firmly on the ground.

For the adjustment of the chain you must adjust both sides of the rear axle at the same time.

The chain must be adjusted to have a tolerance of 30 to 40 mm. At the midpoint between the output gear and the rear sprocket (see picture).



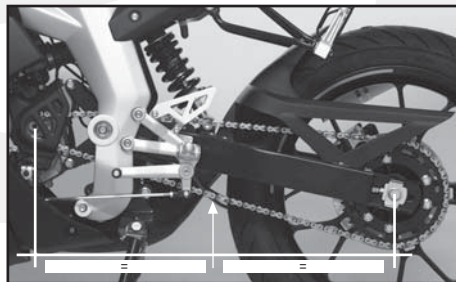
### ATTENTION

The chain should be kept in perfect cleanliness and be properly lubricated each week.



### ATTENTION

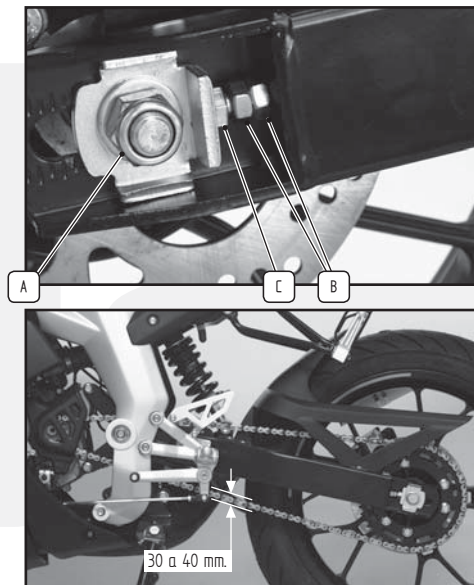
To adjust to the correct tension YOU must perform these steps on both sides of the wheel.





To do this, follow these steps:

- 1 - Set the gearbox in neutral.
- 2 - Loosen the nut (A) that secures the rear wheel axle.
- 3 - Loosen the 2 nuts (B).
- 4 - Using the bolts (C) adjust the chain tension, ensuring it is always the same distance on both sides of the axle. To do so use the rule marks on of the swing arm.
- 5 - Set the position using the 2 nuts (B).
- 6 - Tighten the nut (A) that secures the rear wheel axle.







## FRONT BRAKE SYSTEM

### FRONT BRAKE DISC

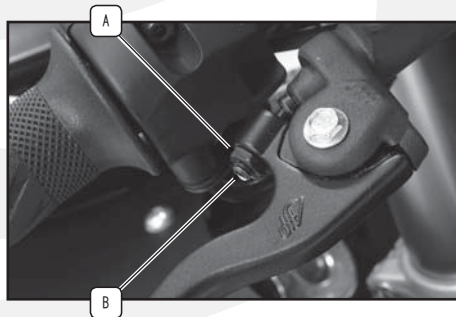
The front brake has a 280 mm diameter brake disc operated by a lever and a hydraulic pump.

The braking surface must be free of grease and dirt to ensure perfect operation.

### FRONT BRAKE LEVER ADJUSTMENT

To increase or decrease the tension of the front brake:

- 1 - Loosen the nut (A).
- 2 - With Allen key No. 4, increase or decrease the action of front brake through the threaded shaft (B).
- 3 - Set the position by re tightening nut (A).



#### ATTENTION

The adjustment of the front brake lever is between 1mm to 3mm of clearance measured at the end opening of the lever.



## CHECKING AND TOPPING UP FRONT BRAKE FLUID LEVEL



### ADVICE

Place the motorcycle so that the tank is parallel to the ground.

If for any reason you have to fill the brake fluid proceed as follows:

- 1 - Remove the cap from the brake reservoir (A).
- 2 - Remove the rubber seal (B).
- 3 - Fill until the liquid exceeds the MIN mark on the viewing port (C).

**Recommended fluid:** DOT 4



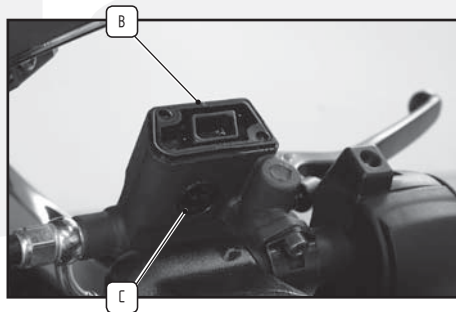
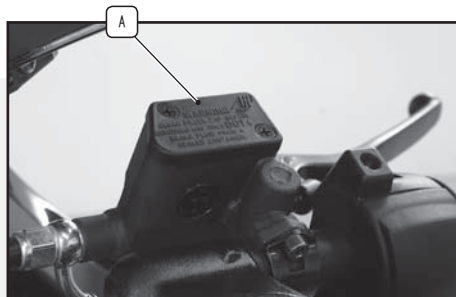
### ADVICE

Ensure the rubber seal is replaced before refitting cap.



### CAUTION

To completely replace the fluid braking system please contact your official **RIEJU** dealer.



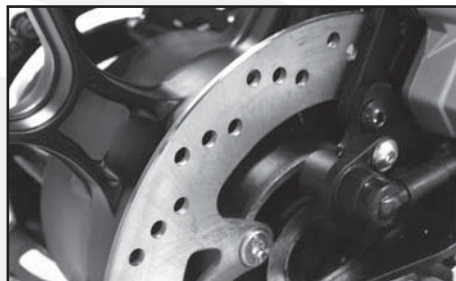


## REAR BRAKE SYSTEM

### REAR BRAKE DISC

The front brake has a 220 mm diameter brake disc the brakes are operated by a foot lever and a hydraulic pump.

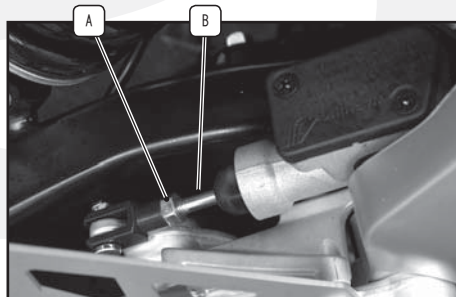
The braking surface must be free of grease and dirt to ensure perfect operation and avoid skidding



### ADJUSTING THE REAR BRAKE LEVER

To increase or decrease the tension of the rear brake:

- 1 - Loosen the nut (A).
- 2 - Adjust the pressure through the rod (B).
- 3 - Set the position with the nut (A).





## FILL LEVEL CONTROL AND REAR BRAKE FLUID

If for any reason you need to fill the brake fluid

Proceed as follows:

- 1 - Remove the pump cover (A).
- 2 - Remove the rubber seal (see picture section and fill level control front brake fluid).
- 3 - Fill until the liquid exceeds the MIN mark on the viewing port (B).

**Recommended fluid: DOT 4**



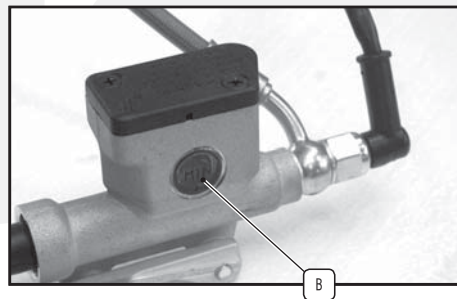
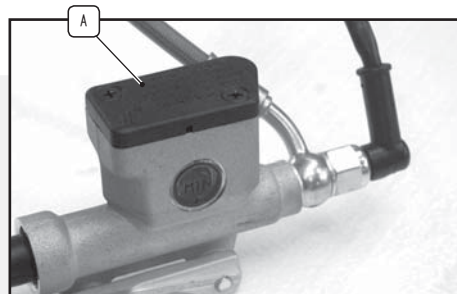
### ADVICE

Ensure the rubber seal is replaced before refitting cap.



### CAUTION

To completely replace the fluid braking system please contact your official **RIEJU** dealer.

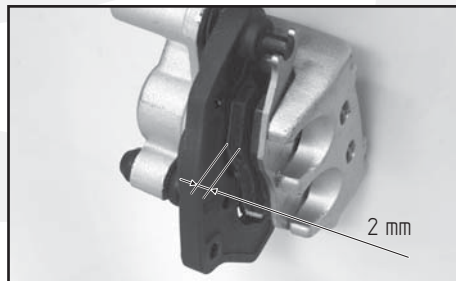




## BRAKE CONTROL FRONT AND REAR

If the brake pads are worn they must be replaced.

Minimum thickness of pads to be 2 mm.



### CAUTION

Replacing brake pads should be carried out by an official **RIEJU** dealer.



## SPARKPLUG

### CHECKING AND REPLACING THE SPARKPLUG

The spark plug is an important component of the engine and is easy to inspect.

Periodically remove and inspect the spark plug because heating slowly deteriorates the plug and leaves carbon deposit.

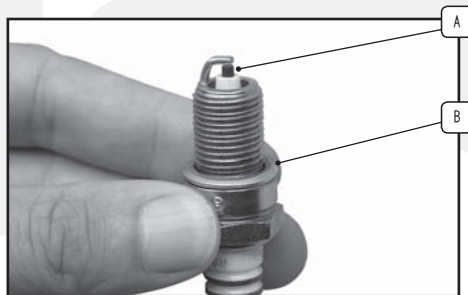
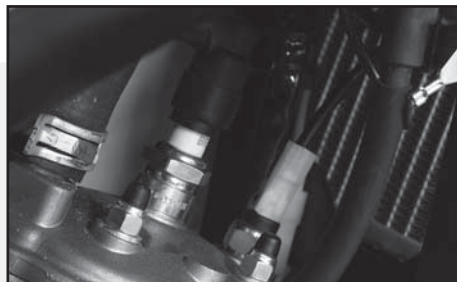
If the electrode is excessively eroded or if soot or other deposits are excessive, change the spark plug with the type and degree heat.

Recommended:

NGK BR 9 ES

Before mounting any spark plug, measure the distance between electrodes (A) with a feeler gauge and adjust to specifications. The electrode gap is 0.6 ~ 0.7 mm.

When installing the spark plug clean the surface of the washer seat (B), thereby preventing debris falling into the combustion chamber. Replace spark plug by hand, gently twisting then gently finishing by tightening between 1 / 8 and 1 / 4 turn with the wrench in the tool kit.





## BATTERY

### CHECKING THE BATTERY

If you see rust on the terminals and the ends of the terminals, they should be cleaned with a wire brush.

If so, remove the cables and scrub the terminals.

After cleaning, reconnect the terminals and apply grease on the ends of the wires and the terminals.

Make sure the connections are correct, otherwise you will damage the battery.

Remember that you should pay particular attention to the handling and treatment of the battery as it contains sulfuric acid and therefore run the risk of burning skin, eyes and clothing.

Also, keep away from flames sparks.

When changing the battery, change it with the same specification battery.

(see Data section).





## BATTERY REPLACEMENT

To access the battery you must remove the passenger seat:

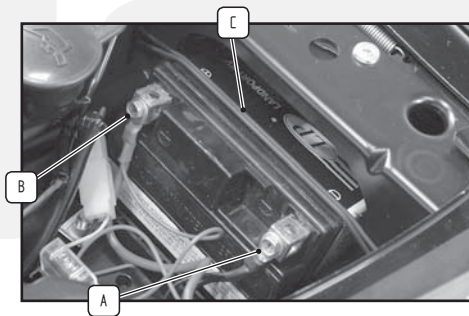
**(See section REMOVE PASSENGER SEAT)**

- 1 - Disconnect the two cables. Negative (A)-Positive (B).
- 2 - Remove the rubber strap (C) and then remove the battery.



### ATTENTION

If you replace the battery, be sure that the new standard 12V 3Ah capacity which allows up to 6A is fitted







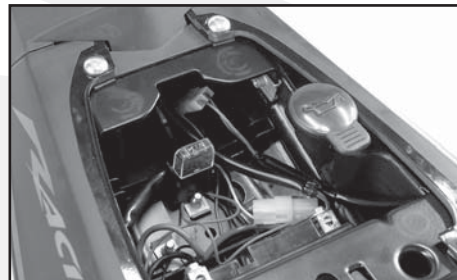
## FUSE

### CHECK AND REPLACING THE FUSE

The fuse (10 Amp.) is located next to the battery under the seat passenger.

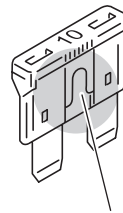
If the fuse blows, turn off the engine and replace it by a new one of the same rating.

Reconnect and see if the electrical system works.

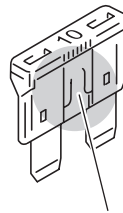


### ATTENTION

Never use fuses of higher amperage than recommended, It could damage or even burn the electrical system.



correct



cast



## AIR FILTER

### CLEANING AND REPLACING THE AIR FILTER

The good performance and durability of engine parts, connecting rod, piston, piston rings, crankshaft bearings, and the cylinder, depends on the condition of the oil and the air filter.

To access the filter box you will need to remove the driver seat.

(See section **REMOVE PILOT SEAT**), then:

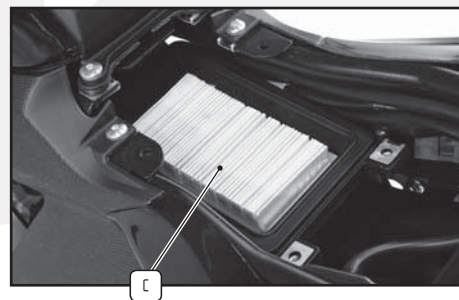
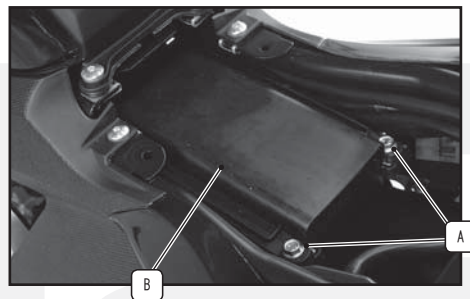
- 1 – Remove the 2 screws (A).
- 2 – Remove the cap (B) by pulling back.
- 3 – Remove the filter (C).

The air filter should be cleaned in the periods shown in the maintenance table.



#### ATTENTION

If you drive a moped in dusty areas you should increase cleaning frequency. This will prolong the life of the moped and its engine parts.





## COOLING SYSTEM

### CHECKING AND FILLING THE COOLANT LEVEL



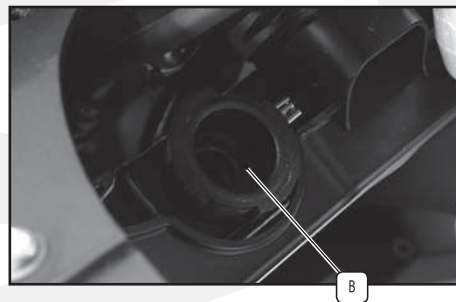
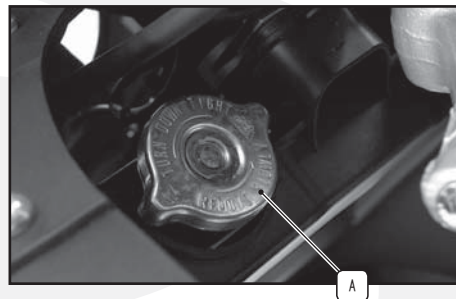
#### CAUTION

Never open the radiator tank cap with the engine hot fluid can splash out due to pressure.

#### TO CHECK THE LEVEL:

- 1 - Remove the cap (A) with a cold engine releasing the pressure.
- 2 - Check the coolant level when engine is cold, because it varies depending on engine temperature. The coolant level should cover the radiator panel and not must go beyond lip (B).
- 3 - If the level is lower, add coolant.
- 4 - Replace the cap.

**Coolant Type: CASTROL ANTIFREEZE.**





## MOTOR OIL

### CHECKING AND FILLING THE ENGINE OIL LEVEL

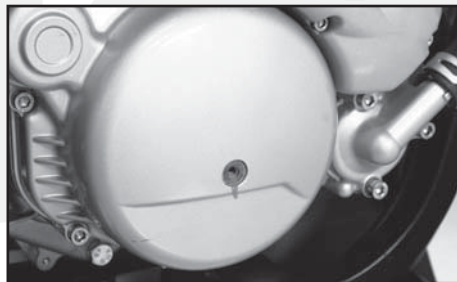
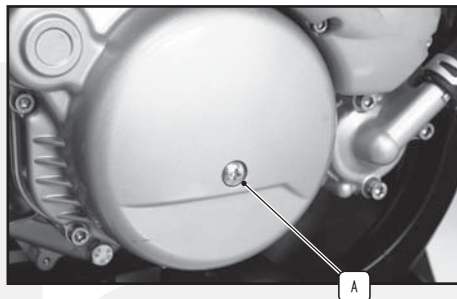
The clutch and gear lubrication is by oil which is located inside the housing. We recommend Castrol 10W 40, with a total capacity of 820 cc. The oil in the sump is drained through the drain screw located at the bottom right of the engine.

If the oil level indicator lights up, check oil and replace. Periodically check the level as follows:



#### CAUTION

Place the moped on a flat and firm surface before attempting this operation.





Then proceed as follows:

1 - Place a container under the pan to prevent oil dripping on the fairing and ground.

2 - Remove the screw (A) level.

Para un correcto nivel deberá salir lentamente un poco de aceite por el orificio del tornillo (A).



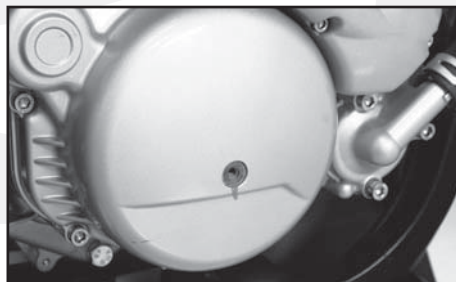
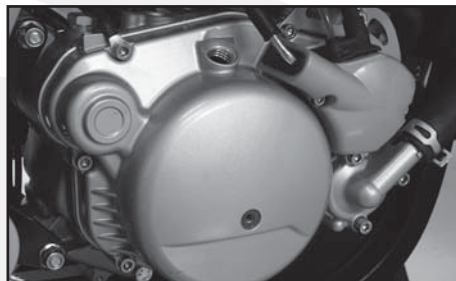
#### ADVICE

It is recommended to change the engine oil when the engine is hot or warm as the old oil will be more fluid and drain more effectively.



#### CAUTION

As the engine is hot or warm be very careful not to burn yourself when performing this operation.





## ENGINE OIL REPLACEMENT

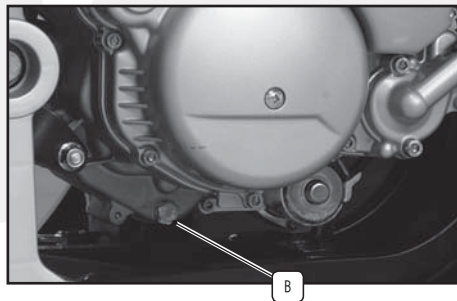
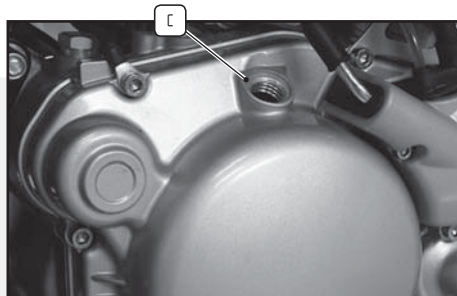


### CAUTION

Place the moped on a flat and firm surface before performing this operation.

Then he proceeds as follows:

- 1 - Remove the drain screw (B) make sure its drained completely empty.
- 2 - Once empty set screw (B) back into its housing and tighten.
- 3 - Remove the cap from the fill hole (C), until the oil exit hole (A) level or the amount of 750 cc, because if the motor has not been stripped and rebuilt there is normally 50 to 70 cc left in inside.



### ATTENTION

When you test the moped ensure that all caps are replaced.



## CLEANING AND STORAGE

### CLEANING

Frequent and thorough cleaning of your motorbike will not only improve its performance and lengthen the useful life of its components but also emphasise the appearance of the motorbike.

Order of cleaning:

- 1 - Cover the exhaust pipe outlet/inlet to prevent water entering the system.
- 2 - Check that the spark plug and all caps are firmly in place.
- 3 - If the engine is very dirty apply a degreaser.



#### ATTENTION

DO NOT apply degreaser to the wheel axle, chain or brake discs.

- 4 - Remove the degreasing agent along with the dirt using a low pressure water source such as a hosepipe.



#### ATTENTION

Rieju accepts no responsibility for the use of degreasing agents which stain and/or cause deterioration to the motorbikes components.

Rieju accepts no responsibility for any possible damage resulting from the use of pressurised water to clean the motorbike.



- 5 - After all dirt has been washed off; the surfaces should be washed with warm water and mild detergent soap.
- 6 - Remove any soap and with cold water and dry all surfaces. Clean the seat with vinyl upholstery cleaner.
- 7 - Once cleaned, start the engine and allow it to idle for a few minutes, this will completely dry all the components and at the same time leave all connections moisture free.

## LONG-TIME STORAGE

For prolonged storage of the motorbike, it is advised that all cleaning procedures above are adhered to prevent any likelihood of deterioration. Once the motorbike has been thoroughly cleaned it can be readied for storage as follows:

- 1 - Drain all fuel from the tank, pipes and the carburettor.
- 2 - Lubricate all control cables.
- 3 - Seal the exhaust pipe to prevent the entry of any moisture.
- 4 - Remove the battery and charge at least once a month, be careful to ensure the battery is stored in the correct conditions.





## TECHNICAL DATA

<b>Suspension</b> Front     Rear	SHOWA inverted telescopic fork fork RIEJU. Ø 35 mm bars. or 41mm., depending on model. SHOWA oil capacity 210c.c. per leg RIEJU oil capacity 380c.c per leg. Recommended oil type: SAE 10W CASTROL.   MONO-SHOCK absorber.
<b>Brake Discs</b> Front Rear	Ø 280 mm. Ø 220 mm.
<b>Tyres</b> Front Rear   PRO Front PRO Rear	100 / 80 — 17 Tubeless, 1,9 kg./cm <sup>2</sup> 130 / 70 — 17 Tubeless, 2,2 kg./cm <sup>2</sup>   110 / 80 — 17 Tubeless, 1,9 kg./cm <sup>2</sup> 140 / 70 — 17 Tubeless, 2,2 kg./cm <sup>2</sup>



<b>Dimensions</b> Total length Overall width Overall height Seat height Wheelbase Ground clearance	1970 mm. 670 mm. 1.090 mm. 845 mm. 1.330 mm. 200 mm.
<b>Dry weight</b>	119 kg.
<b>Motor</b> Type Number of Gears Brand Model Cylinders, arrangement Displacement Bore x Stroke Starting System Lubrication system Oil type	2 stroke 6-speed NG Minarelli 50c.c. AM 6 (EU2) Single inclined 50 c.c. 40.3 x 39 mm. Electrical Autolube 2 stroke injection



<b>Chassis</b>	Dual triangular steel tube double cradle
<b>Electrical Equipment</b> Ignition Generator Ignition advance Battery Fuse	12 v 120 w 12-pin Moric 20th, 1.4 mm before P.M.S. 12 v 3 Ah 10 Ah
<b>Transmission oil</b> Type Quantity	SAE 10W 40 820 c.c.
<b>Oil tank injection system</b> Type Quantity	CASTROL TTS Injection System 1,075 L.
<b>Brake Discs</b> Front Rear	Ø280mm disc. Dual-piston caliper. Ø220mm disc.



<b>Air filter</b>	Paper
<b>Fuel</b> Type Tank Capacity	Unleaded petrol 95 12 L.
<b>Carburettor</b>	Dell'Orto PHBN 16
<b>Spark plug</b> Type Electrode Clearance	NGK BR 9 ES 0,6 – 0,7 mm
<b>Clutch type</b>	Multi-disc oil immersed
<b>Primary drive</b> Clutch ring Pinion Transmission ratio	Z = 71 Z = 20 1 : 3,55
<b>Secondary transmission</b> Motor output sprocket Drag plate Transmission ratio Chain	Z = 11 Z = 47 1 : 4,27 420 SR x 126 Link


**Voltage and power bulbs**

Headlight

12V 35/35W

Light position

12V 5W

Taillight

Leds

Dashboard

Leds

Indicators

12V 10W

**GEAR SHIFT**

Speed	Main shaft	Output shaft	Gear ratio	Output Ratio
1°	Z = 12	Z = 36	1 : 3,00	1 : 45,50
2°	Z = 16	Z = 33	1 : 2,06	1 : 31,26
3°	Z = 19	Z = 29	1 : 1,53	1 : 23,13
4°	Z = 22	Z = 27	1 : 1,23	1 : 18,62
5°	Z = 24	Z = 25	1 : 1,04	1 : 15,80
6°	Z = 25	Z = 24	1 : 0,96	1 : 14,56