# CITY LINE

## 125/300 Ie

RIEJU®
...for everyday adventure

**USER MANUAL**

Bienvenu! **welcome!** Bienvenido!


*GARANTIE CONSTRUCTEUR DE 2 ANS (PIÈCES ET MAIN D'OEUVRE). **TWO YEARS OF WARRANTY (PARTS AND MANPOWER).** DOS AÑOS DE GARANTIA (M.O.Y PIEZAS).

**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 electronic format and send by electronic one support reusable.

In the web site **www.riejumoto.com** 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

# 1 INTRODUCTION

- **RIEJU S.A.** makes on-going efforts to perfect all its vehicles as well as the manuals supplied with them. Please carefully read this Owner's Manual before using your new vehicle. If you decide to sell it, you MUST hand this manual, its warranty and log book over to the new owner.
- **RIEJU S.A.** reserves the right to modify its models without notice; therefore, kindly check if the vehicle meets your expectations before purchasing it.
- **All RIEJU vehicles are designed and built with their common use in mind: therefore, any special use of RIEJU vehicles is excluded unless expressly approved in writing by RIEJU S.A.**
- The vehicle **observes the emission limits provided for by the European directive for motorcycles.**
- Exclusively refuel your vehicle with: **UNLEADED PETROL.**

The muffler irradiates heat even after the engine has just been turned off.
We therefore recommend you to carefully read the following instructions:

- Always allow the engine and muffler to cool down before any maintenance operation, in order to avoid hot surfaces.
- Make sure you do not park nor stop your vehicle on grass, dead leaves or other easily inflammable materials.
- The passenger should get on and off the vehicle from the opposite side of the muffler, in order to avoid hot surfaces.

**ALWAYS RESPECT THE HIGHWAY CODE AND …. RIDE WITH CAUTION**

- **For Spare Parts** and Accessories, always contact an Authorised RIEJU Service Centre.

## 1.1 CONTENTS OF THE MANUAL

| | |
|---|---|
| 1) | **INTRODUCTION**<br>Introduction and instructions for use of the manual. |
| 2) | **SPECIFICATIONS**<br>Technical features of the vehicle. |
| 3) | **GETTING TO KNOW YOUR VEHICLE**<br>Description of the main parts of the vehicle, of the equipment on board and of the control devices. |
| 4) | **OPERATING INSTRUCTIONS**<br>Checks before use and hints. Engine break-in. Using the vehicle. Safety information and important riding points. |
| 5) | **MAINTENANCE**<br>Periodic checks to be carried out by Authorised RIEJU Service Centres.<br>Electrical components installed on board. Trouble-shooting. Recommendations for storage of the vehicle and cleaning. |
| 6) | **ACCESSORIES**<br>List of available accessories |

**IMPORTANT! For all maintenance, repair or accessory installation work, contact an Authorised RIEJU Service Centre.**

## 1.2 NOTES FOR EASY CONSULTATION

- Symbols have been provided for quick and easy reference, identifying situations requiring utmost attention or providing practical suggestions or simple information. They are to be considered as veritable “memory tags”, therefore follow them with great care.

| | |
|---|---|
| | CAUTION! |
| | NO! - Absolutely forbidden interventions. |
| | Mechanical operations to be entrusted to an Authorised RIEJU Service Centre under its responsibility. |
| | Operations involving the electrical/electronic components, to be entrusted to an Authorised RIEJU Service Centre under its responsibility. |
| | Operations to be exclusively carried out while the engine is off. |

## WARNINGS FOR USE

- The User must be in possession of the technical approval certificate (**Log Book**), **insurance, road fund certificate** and an **appropriate Driving licence**.
- The **identification plate** must be applied to the vehicle.

A helmet must be worn at all ages (helmet approved by ECE/ONU).

- Always comply with the Highway Code: signs, rights of way, pedestrian crossings, speed limits, overtaking prohibitions, etc.
- **Any tampering** with the engine or other parts in order to increase speed or power **is forbidden by law**.

Infringements are punished by law by means of penalties that include confiscation.

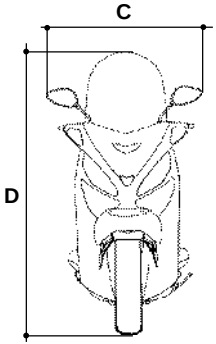
- The passenger must wear a type-approved helmet. Avoid carrying children or persons who are unable to remain seated in the saddle unassisted.
- Do not carry passengers unless they have been first warned and instructed on how they should behave whilst the vehicle is travelling.
- Using the vehicle for sporting purposes on circuits or private land voids the warranty and exonerates RIEJU S.A. from any liability for harm to things or persons, as the User has been warned that such use constitutes an improper use of the vehicle.
- Bearing in mind the above, we strongly advise that any modifications made to make the vehicle suitable for sporting use be carried out by expert technicians on their own direct responsibility and remind you that after such modifications your vehicle may no longer be authorised to circulate on the public highway.

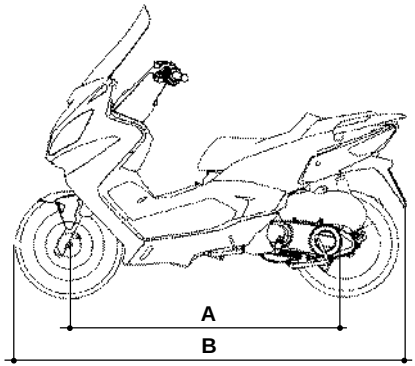
⚠ **Any work on the vehicle performed by persons who are not part of the network of Authorised RIEJU Service Centres may change the vehicle's original safety characteristics and may lead the retailer who sold the vehicle to refuse to perform work under warranty.**

# 2 SPECIFICATIONS

**RIEJU S.A.** reserves the right to modify the specifications at any time without prior notice.

**NOTE: the data between brackets refer to the 125 cc version, when different from the 300 cc version.**




## Dimensions

Wheel base (**A**) m ..... 1.410
Max. length (**B**) m ..... 1.980
Max. width (**C**) m ..... 0.790
Max. height (**D**) m ..... 1.460
Kerb weight kg ..... 165 (163)
Max. load with rider, passenger and luggage kg ..... 185

## Capacity

Engine oil $cm^3$ ..... 1300*
Transmission oil $cm^3$ ..... 250*
Fuel tank (total) L ..... 8.5*

## Engine: PIAGGIO single-cylinder, four-valve

Type ..... M714M (M713M)
Cylinders ..... 1
Bore x stroke mm ..... Ø 75 x 63 (57 x 48.6)
Capacity $cm^3$ ..... 278 (124)
Compression ratio ..... 11.0 ±0.5 (12.0 ±0.5)
Cooling ..... liquid
Starting system ..... electric starter
Greasing system ..... wet sump

## Spark plug

Type ..... NGK CR8EKB

## Transmission

Automatic speed variator with expandable pulleys, V-belt, automatic dry centrifuge clutch, reduction gear and transmission compartment with forced circulation cooling system.

## Fuel system

Electronic injection with electrical fuel pump and automatic starter.
Fuel: **unleaded** petrol.

**Indicative Value*

**Electronic ignition**

High efficiency, inductive type coupled with injection system, variable advance and separate HV coil (electronic CDI).

**Brakes**

Front brake: disk type, Ø 260 mm with transmission and hydraulic calipers featuring two pistons.
Rear brake: disk type, Ø 240 mm with transmission and hydraulic calipers.

**Chassis**

Steel tube single beam, split at the footrest.

**Suspensions**

| | |
|---|---|
| Front: | hydraulically controlled fork with two Ø 37 mm rods. |
| Stroke: | 100 mm. |
| Rear: | 2 hydraulic shock absorbers with adjustable preloading spring. |
| Stroke: | 75 mm. |

**Battery**

12V, 12Ah, maintenance-free.

**Tires**

| | | |
|---|---|---|
| Front: | ---------- 120/70 - 14 | 55 P |
| Rear: | ---------- 140/60 - 14 | 64 P |

It is possible to use tires with load and speed indexes that are higher than or identical to those indicated. It is however necessary for the speed indexes to be identical for both tires.

# 3 GETTING TO KNOW YOUR VEHICLE

## 3.1 MAIN COMPONENTS

| N. | Descrizione | Page |
|---|---|---|
| 1 | Mirror | 10 |
| 2 | Coolant tank | 10 |
| 3 | Switch with key | 22 |
| 4 | Glove compartment | 13 |
| 5 | Socket | 13 |
| 6 | Helmet hook | 11 |
| 7 | Side stand | 23 |
| 8 | Seat lock | 11 |
| 9 | Air filter | - |
| 10 | Number plate holder | - |
| 11 | Number plate light | 47 |
| 12 | Rear turn indicators | 46 |
| 13 | Parking and stop lights | 46 |
| 14 | Passenger handles | - |
| 15 | Battery | 49 |
| 16 | Fuel tank cap | 9 |
| 17 | Glove compartment | 12 |
| 18 | Instrument board | 14 |
| 19 | Driver's seat | - |
| 20 | Passenger's seat | - |
| 21 | Helmet compartment | 11 |
| 22 | Muffler | - |
| 23 | Anti-theft hook | 12 |
| 24 | Passenger footboard | - |
| 25 | Centre stand | 23 |
| 26 | Headlights | 44 |
| 27 | Turn indicators | 46 |
| 28 | Rear parking light | 44 |
| 29 | Windscreen (*) | - |

*(*) Before riding, visually check windscreen conditions. If visibility is insufficient because of dirt, immediately clean windscreen. If windscreen is scratched or broken, have it replaced as soon as possible by an Authorised RIEJU Service Centre.*

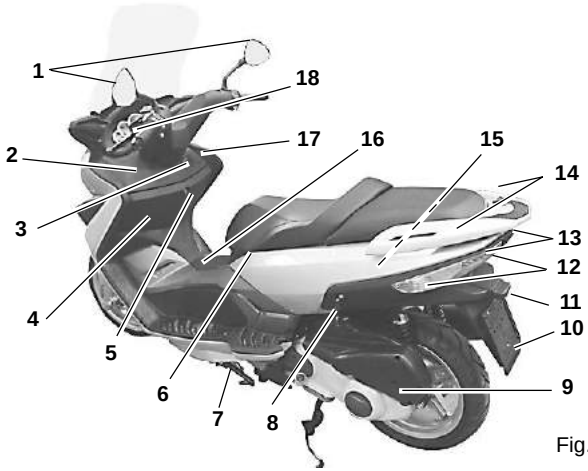



Fig. 2

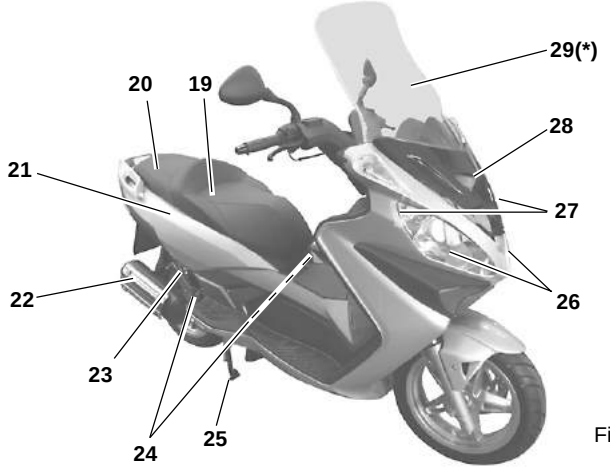



Fig. 3

## 3.2 IDENTIFICATION DATA: CHASSIS N° / ENGINE N°

- To see the vehicle identification number (VIN) (A - Fig. 4), raise the seat and remove the cover in front of the helmet compartment.
- Engine identification data are visible on the left engine crankcase (B - Fig. 5).

**Altering identification data will be punished according to the law.**

- When ordering spare parts, also quote the vehicle identification data.

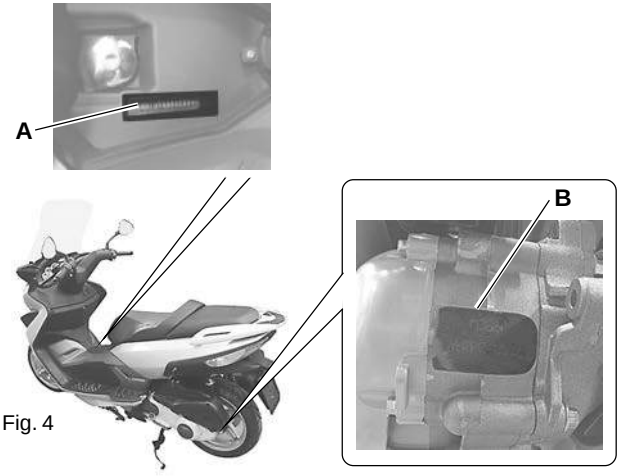



Fig. 4

Fig. 5

## 3.3 TIRES

**Type**: Tubeless (without inner tube)


| | |
|---|---|
| X | 120/70-14” 55P |
| Y | 140/60-14” 64P |

**It is possible to use tires with load and speed indexes that are higher than or identical to those indicated. It is however necessary for the speed indexes to be identical for both tires.**

**USE ONLY HOMOLOGATED TIRES**

Check the tire conditions (before every journey): if they are broken (cracked) or cut, have them replaced as soon as possible.
“T.W.I.” marks are provided all around the tire side walls. These correspond to tire wear indicators, which are situated in the tire’s tread; if there is no difference between the thickness of these indicators and the tread depth itself, the tire must be replaced.

Minimum tread depth (front and rear) is 2 mm (Fig. 6).

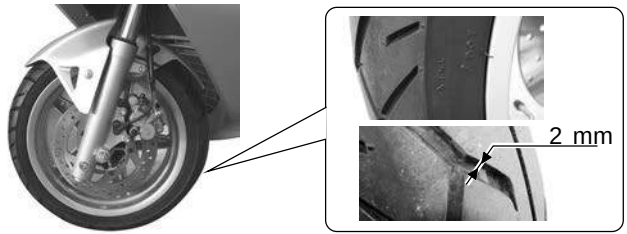



Fig. 6

**PRESSURE**

| bar (psi) | | | |
|---|---|---|---|
| X | 1.9 (27.6) | 1.9 (27.6) | 1.9 (27.6) |
| Y | 2.1 (30.5) | 2.2 (31.9) | 2.2 (31.9) |

**The pressure of tires must be adjusted while the tire is at ambient temperature.**

**Pressure differing from that indicated can lead to higher fuel consumption, irregular wear of the tire, impaired vehicle performance and riding conditions.**

## 3.4 FUEL TANK

To access the fuel tank, proceed as follows:

- Place the vehicle on the centre stand.
- Remove the ignition key from the ignition block.
- Open the door (A - Fig.7) in front of the seat.
- Insert the ignition key, remove the cap (B - Fig. 8) and refuel the tank.
- After refuelling, immediately remove any possible traces of fuel from the vehicle body, since fuel may deteriorate the vehicle's outer surfaces.
- The quantity of fuel, as well as a low fuel level, are displayed by the relative function of the digital instrument board and by the orange warning light on the left hand side of the instrument board (8 - Fig. 17, page 14).
- Use **UNLEADED PETROL**.

| FUEL TANK | 125cc. | 300cc. |
|---|---|---|
| TOTAL TANK CAPACITY | 8.5* | 8.5* |
| RESERVE | 3.0* | 3.0* |

**Indicative Value*

**Petrol is extremely inflammable; avoid approaching the fuel filler - also during filling - with lit cigarettes or naked flames (for instance matches). Danger of fire!**

Fig. 7

Fig. 8

## 3.5 COOLANT TANK

To access the coolant tank, remove the plastic cover on the left side of the lower fairing (A - Fig. 9).
Check the level of coolant with respect to the minimum and maximum marks on the tank (as described in § 5.6 of this manual).

**Use the coolant prescribed in this manual - or one having identical characteristics - for any topping up.**
**Never unscrew the tank cap (T) when the engine is warm, so as to avoid burnings.**
**Do not top up with water, except in emergency situations, and in this case, have the entire contents of the tank replaced with a suitable product as soon as possible.**

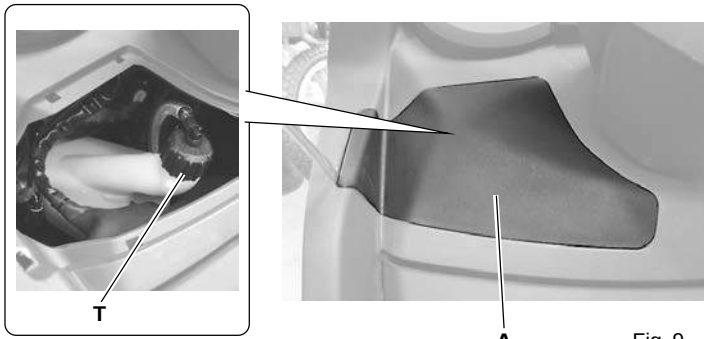



Fig. 9

## 3.6 REAR-VIEW MIRRORS

The left and right rear-view mirrors must be fitted on the handlebar in their seats and firmly secured in place.
Adjust the visual angle of the mirror, while you are sat in riding position on the vehicle in riding order, by turning the mirror until you obtain the best conditions of visibility (P - Fig. 10).
objects that are visible through the mirrors are actually closer than they seem.

**Do not adjust rear-view mirrors while driving. Always wait to stop at a traffic light, for example.**

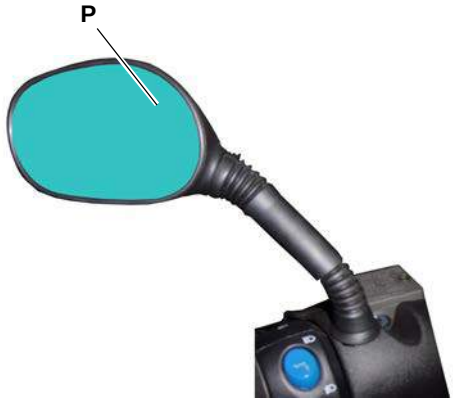



Fig. 10

## 3.7 HELMET COMPARTMENT

- The helmet compartment is under the seat. To gain access to it, put the vehicle on its centre stand, insert the key into the lock on the left hand side (A - Fig. 11) and turn clockwise; this operation will release the seat lock. The helmet compartment can contain two JET-type helmets, if you place them as shown in fig. 12. However, some types of helmet may not fit into the compartment, may need to be put in a different position or may not allow storage of two helmets. Before purchasing your helmet, make sure it fits into the compartment.

- A courtesy light is provided inside the compartment, which comes on and goes off when the compartment is respectively opened and closed. The light comes on only if the ignition key is turned “on”.

- On the front left edge of the compartment, you will find a hook for a second helment (see Fig. 13).

**The helmet compartment can be used to carry light objects. They shall be stored in such a way as not to compromise the vehicle’s stability while riding. Do not store objects which are not temperature resistant (lighters, inflammable liquids, perishable goods, etc.). Do not leave documents or valuables inside the helmet compartment.**


Fig. 11

Fig. 12

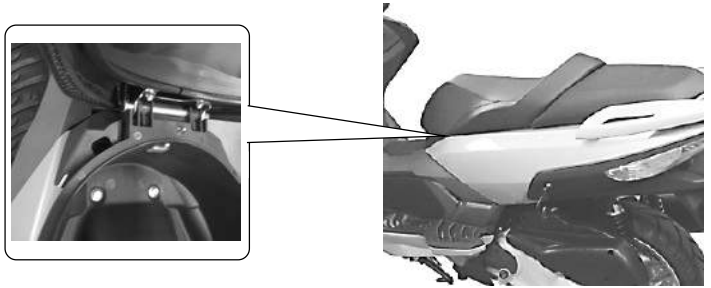


Fig. 13

## 3.8 ANTI-THEFT HOOK

It is on the bottom right side (A - Fig. 14) and is integral to the chassis, allowing a firm grasp to any external element (column, post, etc.) by means of an anti-theft chain that you can purchase from an Authorised RIEJU Service Centre.

**Do not hook the chain to mobile structures and/or parked vehicles.**
**Always check that the vehicle is steady while it is 'firmly fixed'.**
**Never lay the anti-theft chain - usually fitted into a plastic hose - on the muffler or on other hot parts.**
**Never ride if the anti-theft chain has not been previously stored inside the helmet compartment - or inside the rear top case, if provided.**

**After turning the engine off, be careful not to touch the hot muffler in order to avoid burnings.**

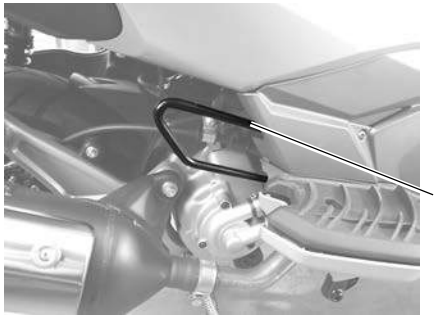



Fig. 14

## 3.9 CONTAINER

- On the right hand side of the lower fairing, you will find a small container (A - Fig. 15).

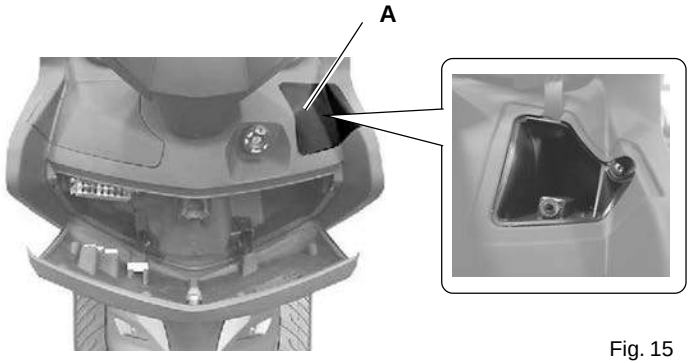



Fig. 15

## 3.10 GLOVE COMPARTMENT

It is located at the centre of the lower fairing (P - Fig. 16). It is suitable for containing small personal belongings.
It is fitted with a lock (A - Fig. 16) which can be opened by turning the ignition key clockwise (Fig. 16a).
The case houses the fuses of the electrical equipment (B - Fig. 16) and the spare fuses (see chap. 5.21 of this manual).

The case houses a 12V socket (C - Fig. 16) that can be used to plug in a battery charger for maintenance-free batteries. It can keep the battery charged during vehicle storage. The socket can occasionally be used to charge mobile phones for instance.
The socket must only be used with the **vehicle at a standstill, the engine running and the lights preferably off**.
Bear in mind that usage of the socket for external appliances reduces the battery recharging capacity and in some cases reduces the battery charge level. Do not use the socket for appliances with an excessive power draw (max. power draw: 30 W).
Remember to refit the socket cap after use to prevent foreign matters from causing short-circuits or other unexpected consequences.

**Do not store heavy objects or temperature sensitive items (lighters, matches, inflammable liquids, perishables goods, etc.) inside the compartments. It is advisable not to leave any documents or valuables inside these compartments.**


Fig. 16

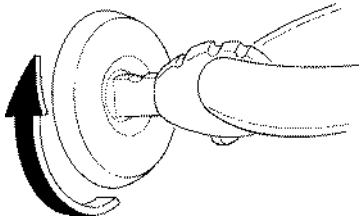


Fig. 16a

## 3.11 INSTRUMENT BOARD

1) **Multifunction digital instrument board**
For information about function setting, see chap. 3.12.

2) **Analogue instruments, Speedometer**
this indicates the current speed in km/h or mph.

3) **Coolant temperature warning light**
The warning light comes on to indicate that temperature of the coolant is too high.

4) **Red engine stop indicator light**
This light comes on to indicate that the “Engine Stop” button is OFF.

5) **Green low beam indicator light**

6) **Blue high beam indicator light**

7) **Green turn indicator light**

8) **Fuel level warning light**
The warning light comes on to indicate that the reserve amount has been reached.

9) **Red oil warning light**
This warning light comes on while the engine is running to indicate that engine oil pressure is insufficient.

10) **Orange injection warning light**
This light comes on while the engine is running to indicate that the injection system is not functioning correctly; contact an Authorised RIEJU Service Centre.

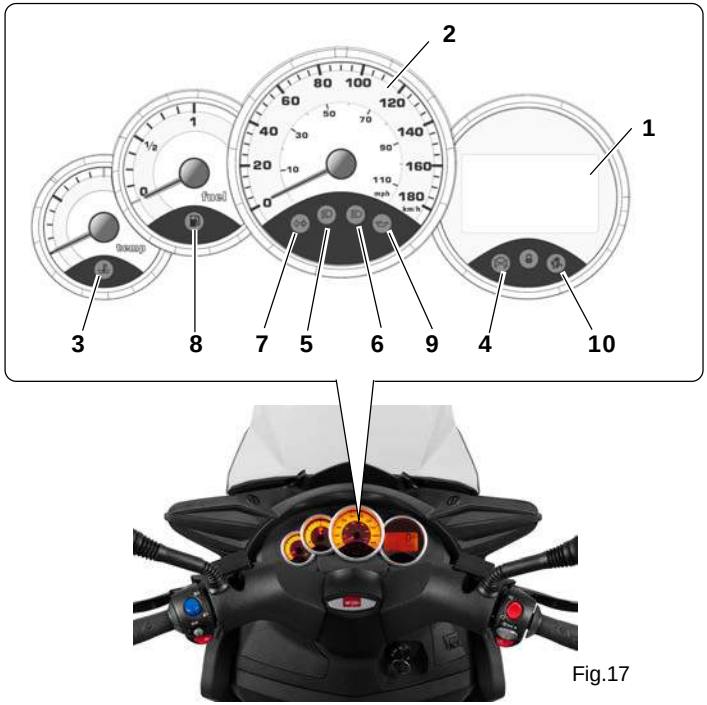



Fig.17

**Avoid cleaning the instruments with pressurised cleaning systems in order to prevent damage.**

## 3.12 DIGITAL INSTRUMENT BOARD

The digital instrument board features functions that are useful for a proper use of the vehicle.

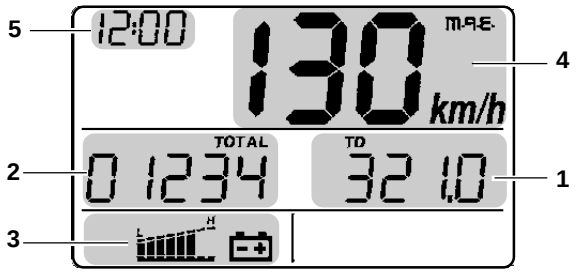
When the ignition key is turned to ⟲, all displays will appear on the instrument board for about 2 seconds to automatically test operation; for the same reason, the back-lighting will come on and all warnings lights and indicators (speedometer, fuel and water temperature) will first gain their full scale position and then regain the current setting.

The selected capacity and software version will appear for about 2 seconds. Lastly the “OIL” message will appear (steadily lit) along with “Bar” (blinking) for 8 seconds to test operation of the engine oil pressure check.

**If the message does not appear, before starting the vehicle check the oil level and have the vehicle checked by an Authorised RIEJU Service Centre as soon as you can.**

**The automatic check is performed every time the ignition key is turned to ⟲ . If the check is performed only partially or not performed at all, have the vehicle checked by an Authorised RIEJU Service Centre.**

When this signal disappears, the following appear:
1) Secondary Menu or Sub-menu (see § 3.12.1)
2) Main Menu (see § 3.12.1)
3) Bar graph showing battery charge level and relative symbol (see § 3.12.3)



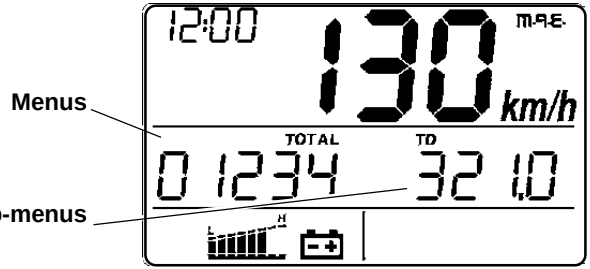

4) Bar graph showing the actual speed and relative unit of measurement (see § 3.12.2)
5) Current time (for adjustment, see § 3.12.2)

To select a function, press the **MODE** button on the right hand control (4 - Fig. 18). Operation of the **MODE** button is illustrated in the following charts (Fig. 16a/b/c), with the arrow icon and the relative time the button must be held down. If there is no button pressing indication, a short pressure is sufficient (about 1 second).

Available functions are divided into **Main Menu** and **Secondary Menu or Sub-menu** (§ 3.12.2).
The digital display can show **warning and alarm signals** (§ 3.12.3), which inform the driver when it is time to have the vehicle checked or when to replace the engine oil; **alarm** signals are illustrated and described here below.
If there are several alarms, the relative signals will appear alternately for a few seconds until the problems have been solved.

### 3.12.1 FUNCTION SELECTION - WARNING OR ALARM SIGNALS

To make the display easier to understand, functions are organised in **menus** and **sub-menus**.




Warning and alarm signals need not be selected. They appear automatically when the alarm condition arises.

Function selection and use is possible using the **MODE** button (4 - Fig. 18), located on the front side, on the right handlebar control. Hold the button down more or less to select one function or another.

**Sub-menu functions are always accessible, irrespective of the menu that has been opened.**

Choice of the speedometer's unit of measurement (km or miles) can be made every time the battery is disconnected and reconnected; otherwise use the relative sub-menu. When selecting a unit of measurement, strictly adhere to the rules in force in your country.

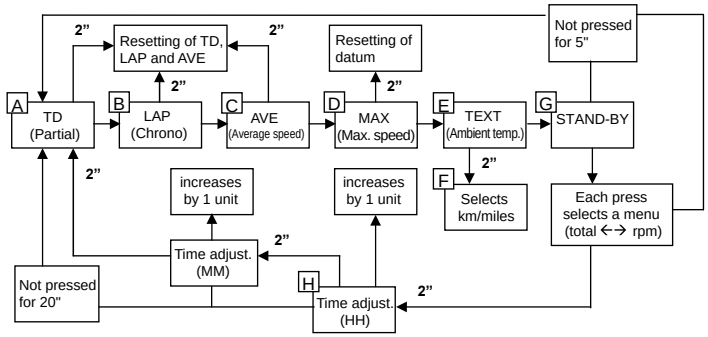
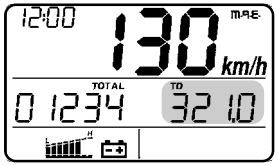



Fig.17a

### 3.12.2 MENU SELECTION

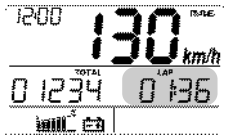
**A) TD FUNCTION** (trip - partial km or mile speedometer)**:**




- **This displays the partial distance travelled, in km or miles.**

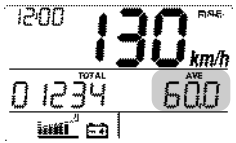
To reset, hold the **MODE** button down until the display is showing *000.0*. The meter is automatically reset when *999.9* km are reached. Counting will thus be resumed from 000.0.

### B) LAP (Chronometer):


- This function is used for clocking trips. The function STARTS automatically when the vehicle sets off and STOPS 3” after the vehicle stops. This piece of information is displayed in MM’ SS” format up to an hour and then in HH:MM. To reset, hold MODE button down for 2”.

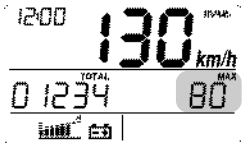
### C) AVE (Average Speed):




- This displays the average speed of the vehicle based on the partial distance travelled (TD) and time employed (LAP). To reset, hold MODE button down for 2”.

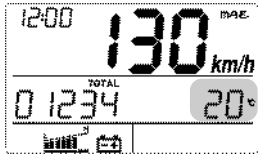
**Resetting any of the functions TD, LAP or AVE will automatically reset the others.**

### D) MAX (Maximum Speed):




- This is the maximum speed reached by the vehicle. It can be reset with vehicle at a standstill by holding MODE button down for approx. 2”.

### E) TEXT (Ambient Temperature):



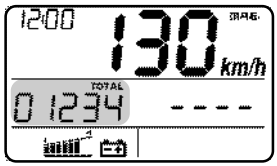

- **This displays ambient temperature in degrees Celsius.**
  It records temperature within a range going from -10°C to +55°C. At temperatures of less than 5°C, it activates the ICE alarm. Hold the MODE button down within this function to select km or mile display.

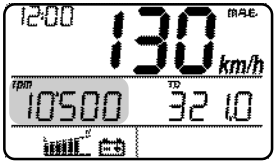
### F) Mile/km selection


- If you are driving in countries where different measurement systems are adopted, you can change the unit of measurement of the distance travelled and of the speed recorded (instant, average and maximum) from kilometres to miles or vice versa. To gain access to this function, hold the MODE button within the TEXT (Ambient Temperature) function. To select a unit of measurement (message flashes), give the MODE button a short press. After selecting, hold the MODE button down to memorise your selection.

**Using a unit of measurement that differs from the one used in the country where you are driving may lead to improper calculations, especially concerning the vehicle’s speed. Consequences include exposure of the driver and others to dangers, as well as fines.**

**G) STAND BY:**

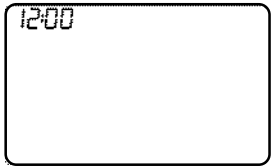



- **For changing the Main Menu display and adjusting time.**

Give the MODE button short presses to change the Main Menu display from Total Odometer to Revolution Counter (RPM) and vice versa. The total distance travelled can obviously not be reset, even when electrical power to the vehicle is disconnected. Hold MODE button with the vehicle at a standstill to enable time adjustments.
If **"MODE"** button is not pressed for more than 4 seconds, TOD function will automatically appear.

**H) Time adjustment:**




- This option is accessed by holding down the MODE button within the STAND-BY function. Each short press of the MODE button results in a one hour increase. To switch to minute adjustment, hold the MODE button down. Minutes are adjusted in the same manner.

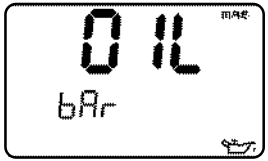
**3.12.3 ALARM FUNCTION**

**A) ICE ALARM:**


- **This means that there may be ice on the road.**

The function is activated, and an alarm icon displayed at the centre of the display, when the sensor is recording a temperature equal to or lower than 4°C. The alarm message is maintained until the sensor is reading a temperature of or above 6°C.

**B) OIL PRESSURE ALARM INDICATOR**
(OIL bar)**:**




- **This alarm appears when the engine is running to signal that there is a fault involving the engine oil circuit.** If the alarm appears while using the vehicle, **stop the engine at once**, check the oil level and top up when the engine is cold.

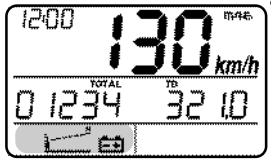
If the alarm remains, have the vehicle checked immediately by an Authorised RIEJU Service Centre.

**Engine oil pressure sensor check (automatic)**
When the ignition key is turned ON, before the vehicle is started, the message "OIL bar" should appear for about 8 seconds to signal that the engine oil pressure sensor is in working order; the message "OIL bar" must disappear when the vehicle is started.

**If the message does not appear, before starting the vehicle, check the level of engine oil and have the vehicle checked immediately by an Authorised RIEJU Service Centre.**

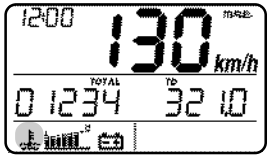
**This function may appear for an instant when the engine is started and when it is turned off with the ENGINE STOP button. However, this does not mean that the engine oil circuit is malfunctioning.**

### C) BATTERY VOLTAGE ALARM (VBATT):



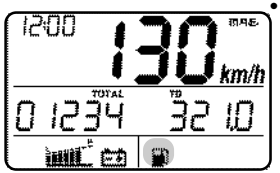

- **This displays the battery charge level.** The battery icon starts flashing when the alarm is active.

### D) RADIATOR FLUID TEMPERATURE ALARM (WTEMP):



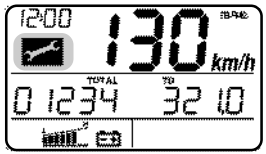

- When temperature in the radiator rises above safe operating levels, an icon will start flashing and the corresponding red warning light comes on. Stop the vehicle at once. If the fault remains, have the vehicle checked by an Authorised RIEJU Service Centre.

### E) FUEL LEVEL ALARM (FUEL):




- When fuel level drops below the reserve threshold, an icon will start flashing and the corresponding orange warning light will come on.

### F) OIL CHECK/CHANGE ALARM:






- The system takes account of the distance running before the next Check/Change (Tagliando), as shown in the maintenance table (see chap. 5 on page 32).
  When it is time for the scheduled check, the 'spanner' icon will appear under the time. When the vehicle is subsequently started, the message "OIL Chge" (Oil Change) or "OIL Chc" (Oil Check) will appear all across the display, depending on which scheduled operation needs to be performed. The Authorised RIEJU Service Centre will turn off all indicator lights and reset the meters, once the requested operation has been per-formed.

**If the time-related scheduled maintenance for changes/coupons is reached earlier than the kilometre-based one, carry out the relative scheduled maintenance.**

### 3.12.4 SETTING UP INSTRUMENT BOARD

#### 3.12.4.1 MODEL SELECTION

*(Procedure to be performed every time the instrument power supply is turned off).*


Connect the battery to the vehicle.
The instrument board will alternately display the two displacement ratings of the vehicles featuring this instrument.

**300cc 125i.** identifies the **City Line 300 or 125 i.e. E3**
**125cc.** identifies the **City Line with carbutettor (Not use)**
Turn the ignition key **ON**


When the vehicle's displacement appears on the display, press the **MODE** key and hold it down until the instrument board checks all segments of the digital display.
Make sure the model selection is correct.
Turn the key **OFF**.

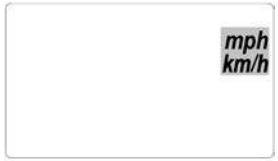
(if you have chosen the wrong model you can modify this setting by following the procedure described below).
Turn the ignition key **ON**
Remove the main **30A** fuse (located inside the fuse box in the compartment on the rear side of the upper fairing).
Wait (about 4-5 minutes) until there is no indication on the display.
Turn the ignition key **OFF**
Refit the **30A** fuse inside its seat and repeat the model selection procedure.

#### 3.12.4.2 SELECTING UNIT OF MEASUREMENT FOR SPEED

*(to perform this procedure, the vehicle must be halted and the engine off)*
Turn the ignition key **ON**


Press the **MODE** key and scroll through all functions until you are displaying ambient temperature.

Press the **MODE** key and hold it down for 3 or 4 seconds.
The display will show the unit of measurement set up for the vehicle.
If the unit is correct, confirm by holding the **MODE** key down for 3 or 4 seconds.




If the unit of measurement is not correct, give the **MODE** key a quick press to change the unit of measurement accordingly.

Confirm your choice by holding the **MODE** key down for about 3-4 seconds.
Turn the ignition key **OFF**

**A wrong model or speed selection can lead to improper operation of the instrument board (e.g. speed, RPM, temperature of coolant, fuel level indicators, etc.).**

## 3.13 HANDLEBAR CONTROLS
### Right hand control

1) Counterweight
2) Throttle grip
3) Front brake lever (left hand side)
4) **MODE** button: selects functions of digital instrument board.
5) Front brake oil tank

**A)** Emergency switch, engine stop.
- Position - Engine start
- Position – Engine stop

**B)** Light switch:
- right = OFF
- centre = parking and instrument board lights
- left = low/high beam lights

**C)** Electric starter button.

Fig. 18

Fig. 19

## 3.14 HANDLEBAR CONTROLS
### Left hand control

1) Rear/front brake oil tank
2) High beam “flash” lever (passing)
3) Rear brake lever
4) Counterweight
5) Horn button.
6) Turn indicator switch.
7) Light switch:
   - high beam
   - low beam


Fig. 20


Fig. 21

## 3.15 SWITCH WITH KEY

- This switch (Fig. 22) controls the starting circuit and handlebar lock.

ignition disabled (the key can be removed).

‘ready to start’ position (the key cannot be removed).

handlebar lock **activated** (ignition is disabled. The key can be removed).

**The vehicle is supplied with two keys.**


Fig. 22

**If you lose one of the keys, ask an Authorised RIEJU Service Centre for a replacement (spare key). Remember that if you lose both keys, you will have to replace the entire key block.**

## 3.16 HANDLEBAR LOCK

**Activation**
With the handlebar turned to the left, insert the key completely and turn it anti-clockwise (Fig. 23).

**Disengagement**
Turn the key clockwise.

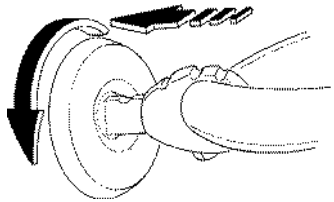


Fig. 23

## 3.17 STANDS

### 3.17.1 CENTRE STAND

- The centre stand position is not electronically controlled; therefore you can turn the engine on while the vehicle is parked. To place the vehicle on the stand, push pin A and raise the vehicle using the grab rail on the rear side of the saddle.

**During this manoeuvre, hold the vehicle in place to prevent it falling over.**

### 3.17.2 SIDE STAND

- It is on the left side of the vehicle (B - Fig. 24); it is controlled by a micro switch that prevents the engine starting if the stand is not properly closed.

**Do not remove nor tamper with this safety device.**

**We advise you to regularly check the retaining system of both stands. This system is composed of tension springs.**

**Always make sure that both stands are on a firm and levelled ground. Soft or gravely soils, asphalt which becomes soft in the heat, etc. may cause the parked vehicle to fall.**

**Do not sit on the vehicle while it is parked on one of the two stands.**

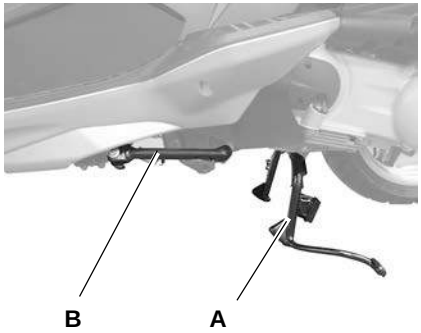



Fig. 24

## 3.18 OWNER'S TOOL KIT

The vehicle is equipped with a tool kit placed in the centre compartment, in which you can find the following tools (Fig. 25):

- Shock absorber adjuster lever.
- Spark plug pipe (to be coupled with "E").
- Handle for inserts.
- Double insert screw

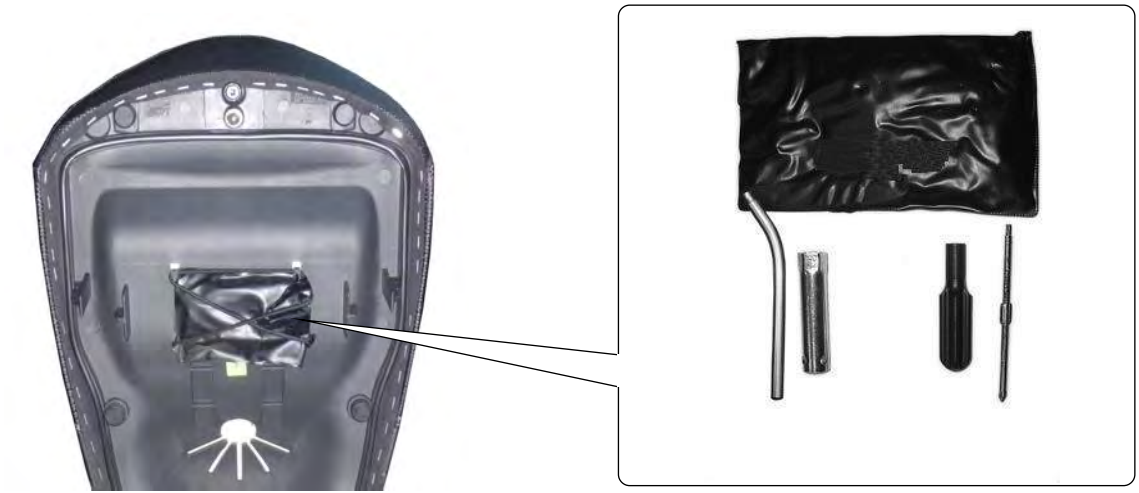


Fig. 25

# 4 OPERATING INSTRUCTIONS

## SUGGESTIONS

The condition of a vehicle is the owner's responsibility. Vital functions of the vehicle can start to deteriorate quickly and unexpectedly, even if the vehicle remains unused (for instance, as a result of exposure to the elements). Any damage, fluid leakage or loss of tire air pressure could have serious consequences. Therefore, check all main vehicle components with great care before use.

**WARNING!**
AFTER A LONG RIDE AT HIGH RPM, WHEN YOU STOP THE VEHICLE
**DO NOT TURN THE ENGINE OFF IMMEDIATELY**
BUT LET IT RUN IDLE FOR ABOUT 30 SECONDS.

## 4.1 ENGINE BREAK-IN

**Good running in** is essential to ensure that the life of engine, transmission and moving parts is sufficiently long.
During the first **1000 km (625 miles)**:

- Avoid using full throttle and maintaining a constant speed for a long time.
- Do not use the vehicle over 80% of the top speed.

After the first 1000 km, increase speed progressively, as established by the limits envisaged by rules in force.

**Both during and after running in, use only UNLEADED PETROL.**

## 4.2 CHECKS BEFORE USE

| PART | CHECK |
|---|---|
| **Fuel** | Enough fuel. |
| **Transmission and engine oil** | Level within limits specified. Check for leaks. |
| **Tires** | Check pressure/wear/damage. |
| **Nuts, screws, bolts** | Check tightness. |
| **Steering** | Free movement from one end to the other. |
| **Front/Rear brakes** | Working properly and not worn; if necessary, adjust or replace. |
| **Throttle** | Operation should be smooth, if necessary lubricate or adjust |
| **Lights and indicators** | Proper working conditions. |
| **Coolant** | Presence of coolant or possible leakages. |
| **Stand** | Operation of stand and springs. |
| **Loads** | Make sure loads and accessories (e.g. rear case) are firmly secured to vehicle. |

**Checking takes just a few minutes, but your safety and that of other people is extremely important.**
**If you do not have time or prefer to make some closer checks, apart from the essential maintenance checks listed in section 5 of this manual, please contact an Authorised RIEJU Service Centre.**

## 4.3 STARTING THE ENGINE

The vehicle features an ignition disabling system that is operated by the sidestand and by the emergency stop switch.
The engine cannot be started if the sidestand is down or if the emergency stop button is turned **OFF**.
If the engine is already running, it will go off when the sidestand is operated or if the emergency stop switch is turned **OFF**.
The **OFF** position of the emergency stop button is signalled by a warning light on the digital instrument board (4 - Fig. 17, page 14).

Before pressing the ignition button, pull the front or rear brake lever and keep it pulled to start the engine, since this lever acts on a special ignition consent switch.

**The automatic transmission runs the rear wheel, even when the throttle lever is operated gently. Gradually release the brake after starting and use the throttle with care.**

**If the tank is empty, do not operate the «START» button and do not turn the key «ON» as this would damage the injection system.**

**Never start the engine in a closed area. Exhaust fumes are poisonous.**

**If the engine does not start, release the ignition switch, wait a few seconds, then try again. Do not operate the ignition system for more than 10 seconds at each attempt, otherwise the battery will run flat. To guarantee a long service life of the engine, do not rev up too roughly when engine is cold.**

**Never rev up when the vehicle is stationary and parked on its stand, you could risk damaging the Lambda probe.**

**In order to ensure maximum battery life, we recommend you to turn the engine on with the lights switched off.**

The vehicle's fuelling system can handle starting either on the basis of the engine's conditions (cold/warm) or on the basis of ambient temperature and pressure.

- Keep the throttle grip at its minimum capacity.
- Turn the key **ON**.
- Make sure switch **A** Fig. 19 is in engine starting position and that the sidestand is up.
- Pull the front or rear brake lever; then press the electrical starter button **C** Fig.19.

### Checking warning light of engine oil pressure sensor (automatic).

When turning the ignition key to position, (Fig. 22, page 22), before the vehicle is started, the message "OIL bar" should appear on the display for about 8 seconds to signal that the engine oil pressure sensor is working; the "OIL bar" message must disappear when the vehicle sets off. Should the message not appear on the display, check the engine oil level before starting the vehicle and have the vehicle checked by an Authorised RIEJU Service Centre as soon as possible.

### 4.3.1 DIFFICULT STARTING

In the unlikely event that the engine is flooded have the vehicle checked by an Authorised RIEJU Service Centre to check why this happened and to resume normal conditions.

**Make sure the fuel tank contains enough fuel (approx. 1 litre) to safeguard the condition of the fuel pump. No fuel in the pump could cause serious damage.**
**If the fuel reserve light comes on, have fuel added at the nearest service station.**

## 4.4 SETTING OFF

- Get onto the vehicle whilst pulling the rear brake lever, and keeping both hands on the handlebar.
- Check the position of the rear view mirrors.
- Warm the engine up for a few seconds before setting off.
- Make sure the centre stand is in its idle position (up).
- Look out for oncoming traffic, switch on the turn indicator light.
- Release brake, turn the throttle grip gently and set off.

**Do not rev up while pulling the brakes.**

**The automatic transmission runs the rear wheel, even when the throttle lever is operated gently. Gradually release the brake after starting and use the throttle with care.**

## 4.5 BRAKING

- Close the throttle grip and operate both brake levers gently to balance the power on both levers, so as to avoid dangerous skidding.

The brakes are operated as follows:
**Left hand lever**: operates the front rear brake.
**Right hand lever**: operates the front brake.

## 4.6 STOPPING THE ENGINE

- After a long ride, we advise you to keep the engine **at idle speed** for a few seconds before turning the key **OFF**.

## 4.7 SAFETY INFORMATION AND IMPORTANT RIDING POINTS

- Always wear a helmet (homologated), which must be correctly fastened (this applies also to passengers) and suitable garments. Avoid wearing loose fitting, hanging and unbuttoned garments.
- Keep the visor (or protective goggles) and windscreen clean.
- Adjust the rear-view mirrors.
- Always drive seated, with both hands on the handlebar and feet on the footrests.
- Warm up the engine and let it run idle for a few minutes before setting off.
- Always, keep at a safe distance from other vehicles. When driving behind other vehicles or in slow traffic, if the speed needed is very close to minimum engine speed, maintaining this speed would cause continuous slipping and overheat the clutch. It is best to rev up and slow down at a regular frequency in order to maintain the clutch in working order.
- On dry road, without sand or gravel, use both brakes: using one brake can cause dangerous and unexpected slipping.
- On wet road, drive with care and at a low speed: use brakes “gently” and entrust braking to the “engine brake”.
- Good psychological and physical conditions are fundamental for safe riding. Driving under the effect of drugs, alcohol or psychotropic drugs, or in conditions of excessive fatigue or sleepiness, can be extremely dangerous.
- Changes of direction, changes of lane, turns into side streets, or stops must always be signalled using the turn indicators.
- Near stop signals, red traffic lights, level crossings, speed control humps, etc. slow down gently and in good time. Safety is important for you but also for other drivers.
- Drive with the lights on, even during the day.
- When stopping the vehicle after a long ride at high rpm, do not turn the engine off immediately, but let it run idle for about 30 seconds.
- There is a safety system, based on lateral inclination, which turns the vehicle off if it falls.
- Before riding, always check: the level of engine oil and coolant, the condition and pressure of tires, the electrical and braking system for malfunctioning.
- Use only unleaded petrol and the lubricants recommended by the Maker. Avoid mixing incompatible types of oil.
- Never use mobile phones, whilst driving or fuelling, in a manner differing from the provisions of laws in force.
- Never allow passengers to use mobile phones in a manner differing from the provisions of laws in force during the journey, since they should be holding the special handles (14 - Fig. 2, page 7).

- When carrying a passenger, the driving method changes considerably. It is essential to adjust both rear shock absorbers (chap. 5.9) and adopt a more prudent driving style.
- Whilst driving, do not carry pointed or fragile objects in your pockets.
- Whilst driving, never hold or carry your helmet (the same applies to the passenger).
- Never drive absent-mindedly.
- Never eat, drink, smoke or turn round to talk to the passenger whilst driving.
- Do not tow or be towed by other vehicles.
- When the stand is down, do not sit on the vehicle.
- Never set off with the stand down.
- Never operate the stand when the vehicle is parked with its front side on a slope.
- Never drive on pavements, under porticos, on public land or parks, etc.
- Avoid stunts which are dangerous both for you and others.
- Never load bulky or heavy objects on the vehicle unless they are firmly secured in place.
- Never use the vehicle to carry objects that protrude from the vehicle or cover the lighting/signalling systems.
- Before carrying passengers, instruct and warn them about the behaviour to maintain during the ride.
- Maintain a driving style that takes account of the presence of a passenger.
- Do not exceed the maximum permissible weight (see technical data).
- Do not apply too may electrical devices.
- Avoid making modifications that increase or otherwise alter the original technical performance.
- Use the vehicle in the expected manner.
- Never leave the engine running for too long when vehicle is at a standstill.
- Never start or run the engine in closed or poorly ventilated environments; exhaust gas is highly toxic.
- Never set off at high speed.
- Do not turn the throttle grip too roughly.
- Avoid pressing the start button when the engine is running to prevent damage to the starter motor.
- Never rev up when the vehicle is stationary and parked on its stand, you could risk damaging the Lambda probe.

# 5 ROUTINE MAINTENANCE

## 5.1 MAINTENANCE

**WARNINGS**

It is compulsory to carry out the routine maintenance operations, at the deadlines indicated in the table on page 32 of this manual, in order not only to ensure both your safety and that of other people but also correct operation of the vehicle.

**Failure to perform these operations can adversely affect vehicle operation, with all the relevant consequences, including the FORFEITURE OF THE WARRANTY.**

For information about the warranty, refer to the “Warranty and Log Book”.

For any operational trouble, we advise you not to wait until the kilometres required for the next coupon are reached, but immediately contact an Authorised RIEJU Service Centre to solve this trouble.

Before starting any interventions on the vehicle, stop the engine, remove the key and wait for the engine, the exhaust and the cooling systems **to be completely cold** so as to avoid burns.
When performing maintenance work, wear protective goggles and gloves and make sure that all heated parts of the vehicle have cooled down.

**THE FIRST CHECK COUPON must be carried out at 1000 km (620 mi): for subsequent coupons see the MAINTENANCE TABLE.**

**If the time-related scheduled maintenance for changes/coupons is reached earlier than the kilometer-based one, carry out the relative scheduled maintenance.**

## 5.2 MAINTENANCE TABLE

= coupon ● = check ○ = clean □ = adjust △ = replace

| CHECKS AND OPERATIONS<br>*125 / 300cc injection version* | | 1 FIRST 1,000 km (620 mi) | 5,000 km (3,100 mi) or 10 months | 2 10,000 km (6,200 mi) o 20 mesi | 15,000 km (9,300 mi) or 30 months | 3 20,000 km (12,400 mi) or 40 months | 25,000 km (15,500 mi) or 50 months | 4 30,000 km (18,600 mi) or 60 months | 35,000 km (21,700) or 70 months | 5 40,000 km (24,800 mi) or 80 months | 45,000 km (27,900 mi) or 90 months | 6 50,000 km (31,000 mi) or 100 months | 55,000 km (34,100 mi) or 110 months | 7 60,000 km (37,200 mi) or 120 months | 65,000 km (40,300 mi) or 130 months | 8 70,000 km (43,400 mi) or 140 months | 75,000 km (46,500 mi) or 150 months | 9 80,000 km (49,600 mi) or 160 months |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Spark plug | * | | | | | △ | | | | △ | | | | △ | | | | △ |
| Engine oil and oil filter | * | △ | ● | △ | ● | △ | ● | △ | ● | △ | ● | △ | ● | △ | ● | △ | ● | △ |
| Final transmission oil | * | △ | | ● | | △ | | ● | | △ | | ● | | △ | | ● | | △ |
| Valves | * | | | | | ● | | | | ● | | | | ● | | | | ● |
| Drive belt | * | | | ● | △ | | ● | △ | | ● | △ | | ● | △ | | ● | △ | |
| Sliding pads / speed variator rollers | * | | | △ | | △ | | △ | | △ | | △ | | △ | | △ | | △ |
| Tightness of the braking system pipes - Injection system | * | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● |
| Fuel pump filter | * | | | | | | | | | | | △ | | | | | | |
| Air filter | | | | ○ | | ○ | | ○ | | ○ | | ○ | | ○ | | ○ | | ○ |
| Air filter in belt compartment | * | | | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● |
| Electrical equipment, battery and charge level | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Brake pads - condition and wear | | ● | *every 2,000 km (1,240 mi)* | | | | | | | | | | | | | | | |
| Level and density of coolant (replace every 2 years) - Manifold tightness | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Braking system fluid | * | ● | *every 20 months o 10,000 km (6,200 mi)* | | | | | | | | | | | | | | | |
| Wheel bearings | * | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● |
| Chassis linkages (or levers) | * | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● |
| Steering system operation and play (lubricate if necessary) | * | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● |
| Operation and tightness of fork and shock absorbers | * | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● |
| Tightness of nuts and bolts | * | ● | | ● | | | | ● | | | | ● | | | | ● | | |
| Tightness of side and centre stands - Pivot lubrication | * | ● | | ● | | | | ● | | | | ● | | | | ● | | |
| Operation of side stand switch - Lubrication | * | ● | | ● | | | | ● | | | | ● | | | | ● | | |
| Throttle control | * | □ | | □ | | □ | | □ | | □ | | □ | | □ | | □ | | □ |
| Tire pressure - tread wear | | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● |
| Final check: tires, pressure, lighting, warning devices, switch functions, road test | * | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● | | ● |

(1): if you notice that the belts wear excessively between one coupon and the next (every 10,000 km - 6200 mi), have the checks performed more frequently.

Maintenance operations should be performed more frequently if the vehicle is used in rainy weather, in dusty places or on rough terrain.

**Due to their simplicity, checks with no asterisk CAN also be carried out by technicians not authorised by RIEJU, but under their direct responsibility.**

## 5.3 TRANSMISSION OIL

**Check level** | **every 10,000 km (6,200 mi) or 20 months**

1) Place vehicle on a level surface on its centre stand.
2) Unscrew dipstick (A - Fig. 26), clean it and refit it, **wrenching it tightly.**
3) Pull it out again and check that oil level is between MIN and MAX notches.
4) If level is insufficient, top up until oil is touching MAX notch.
5) Fill crankcase with oil of following type: **Q8 T35 - 80W**

   Crankcase capacity approx.: **250 cm³**

**Renew** | **after first 1,000 km (620 mi) and every 20,000 km (12,400 mi)**

- Carry out operations described above at points 1-2, without refitting dipstick; then put a container under engine crankcase and unscrew drain screw (B - Fig. 27), paying attention to gasket.
- Let oil flow into container (pay attention to avoid scorching).
- Refit drain screw with gasket and fill with approximately **250 cm³** of new oil (**Q8 T35 - 80W**), then refit cap and dipstick (A - Fig. 26)
- Now repeat checks 3-4-5.

*If the drain screw gasket is damaged, replace it.*

**Regularly check for oil leakages near drain screw at the rear wheel. If you notice any leaks, contact an Authorised RIEJU Service Centre.**

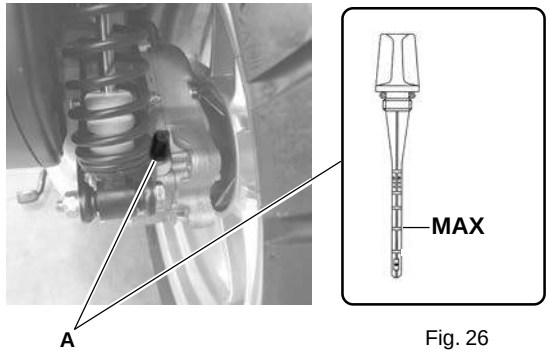



Fig. 26

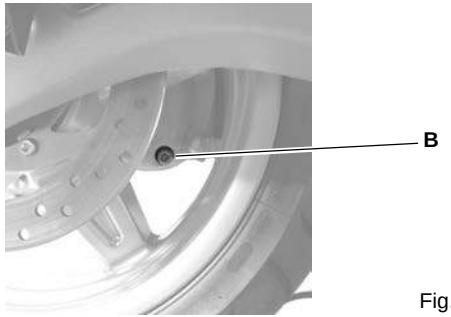



Fig. 27

**Prevent foreign matters from getting into transmission crankcase during checks or oil changes. Prevent oil dripping on tires or wheels.**

## 5.4 ENGINE OIL

**Check oil level** | **every 5,000 km (3,100 mi) or 10 months**

As far as four-stroke engines are concerned, engine oil is used to lubricate distribution components, base bearings and thermal unit. **An insufficient amount of oil can seriously damage the engine.**
In all four-stroke engines, deterioration of the oil and a certain consumption are to be considered normal. Consumption, in particular, strictly relates to conditions of usage (oil consumption increases if the vehicle is used with the throttle fully open).

**To prevent trouble, check the oil level more frequently with respect to the indications given in the MAINTENANCE TABLE, especially before long journeys.**
**The vehicle features a control system that activates the "OIL BAR" alarm signal of the digital instrument board in the event of trouble.**

**Checking oil level**
This check should be performed when the engine is cold, as described below:

- Place vehicle on a level surface on its centre stand. Start engine and wait until it reaches running temperature.
- Turn engine off and wait for about 5 or 10 minutes for oil to drain into oil sump.
- Remove cap-dipstick (A - Fig. 28) from engine crankcase and clean it. **Refit it and screw firmly down.**

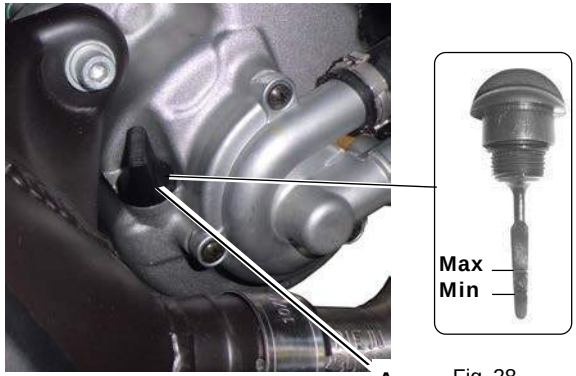


Fig. 28

- Remove cap-dipstick again, and check that oil level is included between MIN and MAX notches, as shown in fig. 28.
  If level is insufficient, top up with oil.
- After checking, refit cap-dipstick, screwing it firmly into its seat.
- Total amount of engine oil: **1,300 cm³**

- Recommended oil: Q8 FORMULA EXCEL SAE 5W40

**When checking the oil level, make sure the vehicle is upright; slight tilting may alter readings.**

**If you need to check the level when engine is warm, remember that level line will be lower. It is best to wait at least 10 minutes from stopping engine in order to have a correct reading.**

### Topping up

Before topping up, check oil level and in no case allow level to rise above **MAX** notch.
Topping up to level falling between the **MIN** and **MAX** notches means using about **200 cm³** of oil.

**Never allow level to rise above MAX notch! This may seriously damage the engine, due to excessive internal pressure.**

### Alarm message (low oil pressure)

The digital instrument board features a control system displaying an “OIL BAR” message (B - § 3.12.3). The message appears when the vehicle is turned on to signal that the check function is working. The message disappears automatically after a few seconds. It will only reappear during vehicle use if there is actually a low oil pressure problem.

**If the message appears when you are braking, when the engine is idling or when curving, stop the vehicle, check the oil level and top up if necessary. If the message remains after topping up, have the vehicle checked by an Authorised RIEJU Service Centre.**

**The message “OIL” is displayed on the digital instrument board at the frequency reported in the MAINTENANCE TABLE. This warning light indicates that it is time to change the engine oil. This warning light is displayed on the instrument board until the indicated operation is carried out by an Authorised RIEJU Service Centre.**

**Waste oil is toxic for the environment, therefore we suggest you contact an Authorised RIEJU Service Centre for disposal according to the rules in force.**

**Check level** **every 10,000 km (6,200 mi) or 20 months**

- Warm engine up for a few minutes, since oil changing must be carried out while engine is warm.
- Turn engine off. Put an oil collecting pan under engine crankcase, and in particular under the cap (A - Fig. 29).
- Remove drainage cap and dipstick (A - Fig. 28) and drain oil.
- Clean internal net using compressed air.
- Check condition of cap's O-ring and, if damaged, replace.
- Remove cartridge oil filter with relevant O-ring (B - Fig. 29) and replace.
- Before fitting new cartridge filter, lubricate relevant O-ring and wrench until finger tight.
- Refit net and cap with O-ring.
- Fill engine with oil and refit cap and dipstick. Wrench firmly down.
- Start engine to fill new filter cartridge and lubrication system. Stop engine and, after about 5 minutes, check oil level. If necessary, top up to level.

**The cartridge oil filter must be replaced every time oil is changed, along with its gasket.**

**Letting the engine run with an insufficient amount of lubricant or with the wrong types of lubricant causes wear to moving parts and can in the long run cause serious damage.**

**Waste oil contains polluting substances. Have oil replaced by an Authorised RIEJU Service Centre that will also dispose of waste oil in accordance to the law.**

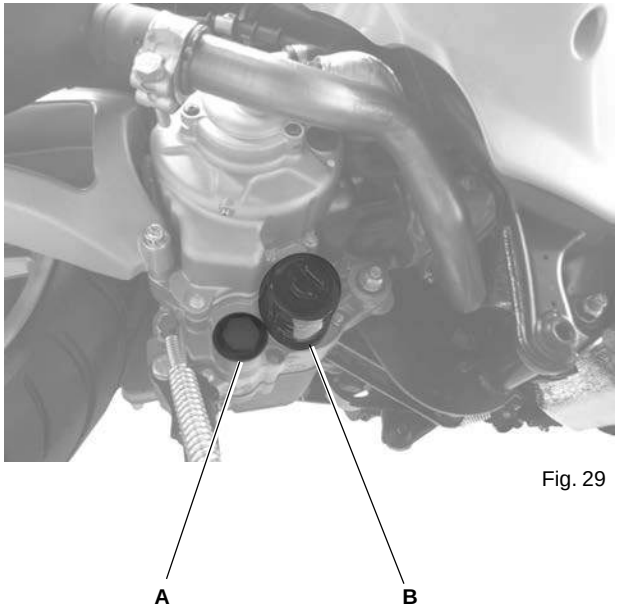



Fig. 29

## 5.5 FRONT/REAR BRAKE OIL

**Check** **every 30 days**

- The visual check should be made through the sight glass (S - Fig. 30-31) of the tanks: front brake (A - Fig. 30) and rear brake (B - Fig. 31), when the vehicle is on level ground and perfectly upright.
- The oil should be at **3 mm** from the bottom edge of the sight glass.
- Top up by removing the covers (A - B), after loosening the fixing screws. We advise you to use: **BRAKE FLUID DOT 4**.

**Hydraulic oil is corrosive and can cause damage and injuries. Do not mix different types of oil. Check the perfect seal of the gaskets.**

**Change** **every 10,000 km (6,200 mi) or 20 months**

- If the fluid features traces of dirt, debris or water, it must be replaced.
- A soft and spongy feeling in the brake lever can indicate the presence of air in the circuit. Immediately contact an Authorised RIEJU Service Centre.

**To ensure long life and efficiency for your vehicle, we advise you to have these operations made by an Authorised RIEJU Service Centre.**

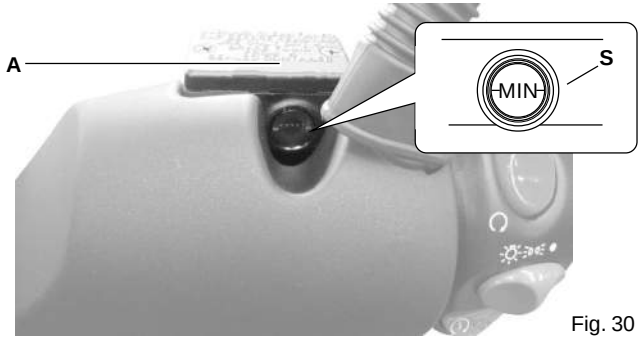


Fig. 30

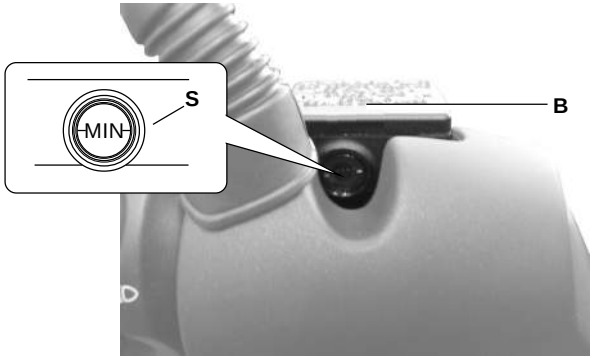


Fig. 31

## 5.6 COOLANT

- The coolant expansion tank is located in the front section of the vehicle, behind the plastic cover inside the lower fairing, on the left hand side (chap. 3.5).
- The level of coolant can be checked using the MIN - MAX notches as reference (G - Fig. 32).
- Check the coolant level in the tank when the engine is cool, in order to avoid possible burnings.
- The coolant level is sufficient if it is included between the MIN. and MAX. notches marked on the tank.
- If it is lower that the MIN. notch, top up until you reach the MAX. notch.
- We advise you to use: **Q8 TOP FLUID.**
- If you are using undiluted fluid that is not mixed with water, dilute with the same amount of water.

**The cooling circuit is supplied with an electric fan, actuated by a thermistor, which automatically cools the fluid inside the radiator if its temperature reaches excessive levels. The electric fan is protected by a 7.5 A fuse located in the lower fairing container; (chap. 3.9).**

**Before using the vehicle, check that the cooling surface of the radiator, located behind the front wheel, is not even partially clogged by leaves, paper, mud, etc.**

**Fluid temperature indicator**

Coolant temperature is always displayed on the left hand side of the display (chap. 3.11).
If the temperature is too high, the alarm condition is signalled by the flashing symbol and relative warning light on the display (3 - Fig. 17, page 14) on the left hand side of the instrument board.
In this case, **stop the vehicle immediately**. Allow the engine to cool down and check:

- that there are no objects clogging the cooling surface of the radiator located behind the front wheel (remove them);
- that there are no leaks inside the circuit with subsequent leak of fluid (see fluid level information, topping up);
- that the fan's fuse is in working order (if not, replace it).

**For any trouble inside the cooling circuit, we advise you to contact an Authorised RIEJU Service Centre for an extensive check as soon as possible, even if the cause of the trouble has already been removed.**


Fig. 32

## 5.7 LUBRICANT TABLE

The vehicle's life depends also on the care devoted to lubricating it.

| LUBRICANTS | TYPE OF LUBRICANT | |
|---|---|---|
| ENGINE OIL (4-STROKE TYPE) | Q8 | **FORMULA EXCEL SAE 5W40** |
| ENGINE TRANSMISSION OIL | Q8 | **T35 - 80W** |
| AIR FILTER LUBRICANT | Q8 | **AIR FILTER OIL** |
| RADIATOR FLUID | Q8 | **TOP FLUID** |
| BRAKE CIRCUIT FLUID | Q8 | **BRAKE FLUID DOT 4** |
| FORK ROD OIL | Q8 | **FORK OIL** |

## 5.8 SPARK PLUG

**Replace every 20,000 km (12,400 mi)**

Recommended type of spark plug: **NGK CR8EKB**

The spark plug is an essential component:

- Proper care of the plug is important for maintaining the engine in perfect working order.
- For maintenance, remove the 4 screws (V - Fig. 33), widen bottom section of the chassis, move pipe (T - Fig. 34) away and remove cap by turning it alternately clockwise and anti-clockwise. Now, unscrew the spark plug using the special wrench supplied with the vehicle (all operations on the spark plug must be performed when the engine is cold).
- Examine the spark plug conditions after a reasonably long drive (10-15 km) and after letting the engine cool down (at least 10-15 minutes), since the sediments and the colour of the insulator can provide useful information about the heat rating of the spark plug, carburetion, lubrication and general conditions of the engine. A **light brown** colour of the insulator, around the central electrode, indicates **good working order**.
- **Checking and cleaning operations must be carried out every 10,000 km (6,200 mi).**
- After disassembling the spark plug, suitably clean the electrodes and the insulator using a metal brush. Adjust the electrode gap using a filler gauge: the gap should range from 0.7 to 0.8 mm.
- Blow onto it so as to prevent possible residues from entering the engine, then refit it, by wrenching until finger tight. Then, using the special spark plug wrench, wrench it but not too hard.

**Spark plugs with a heat rating differing from the recommended one may seriously damage the engine.**

**It is imperative that any spark plug exhibiting cracks on the insulator or corroded electrodes be replaced.**

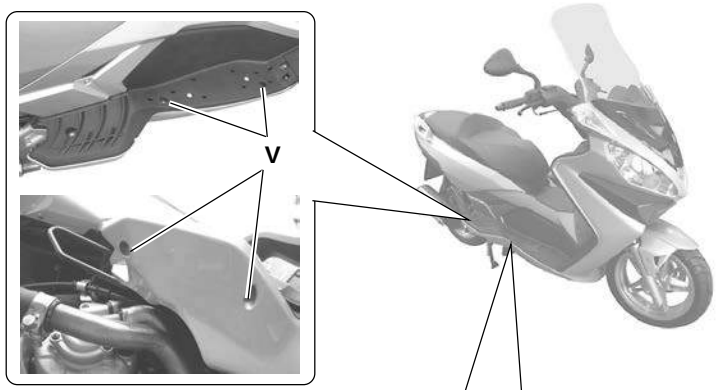



Fig. 33

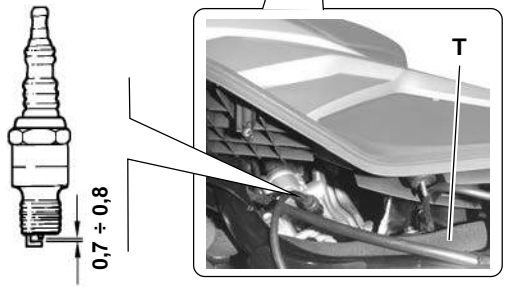






Fig. 34

## 5.9 ADJUSTING REAR SHOCK ABSORBERS

- The shock absorbers are equipped with a spring preload ring nut, with which it is possible to adjust the vehicle's behaviour depending on the load carried, how the vehicle is driven and where.
- The adjustment is carried out using the wrench supplied, by acting on the ring nut located in the bottom section of the shock absorbers (Fig. 35); turn it **clockwise to increase** the spring preload (heavier load).

There are four adjustment positions:
1) **Position one:** driver only
2) **Position two:** driver and luggage case
3) **Position three:** driver, passenger
4) **Position four**: driver, passenger and luggage case.

**Adjust both shock absorbers according to the same adjustment index. An unbalanced adjustment may compromise the vehicle's stability.**

**While riding with a passenger, preload the shock absorber spring at position '3'.**

**When adjusting, wear gloves to protect yourself against scratching.**

Fig. 35

## 5.10 ADJUSTING ENGINE IDLING SPEED

- For possible adjustments, please contact an Authorised RIEJU Service Centre.

## 5.11 THROTTLE FREE PLAY ADJUSTMENT

- Check that the throttle grip idle stroke is 1-3 mm (measured on the end of the throttle grip). Any adjustments must be entrusted to an Authorised RIEJU Service Centre.

## 5.12 ADJUSTING BRAKE LEVERS

- Maintenance of the brake levers is limited to the brake fluid level check (see chap. 5.5).
- A soft feeling in the brake levers could indicate the presence of air in the hydraulic circuit. In this event, **refer to an Authorised RIEJU Service Centre** for a check and circuit purging, if necessary.

## 5.13 CHECKING PADS AND DISCS OF FRONT/REAR BRAKES (condition and wear)

- We recommend that you have the front/rear pads and discs checked by an Authorised RIEJUService Centre every 2,000 km (1,240 mi).
- The minimum thickness of the brake lining shall not be less than 2 mm (Fig. 36). Check the thickness of the brake pads as indicated by references A/B (Fig. 36).
- If the thickness of the pads is close to the lowest permitted limit or if they are damaged, have them replaced immediately.
- **It is absolutely necessary to replace the worn discs and pads as soon as possible.** This operation must be performed by an Authorised RIEJU Service Centre using only original RIEJU spare parts.

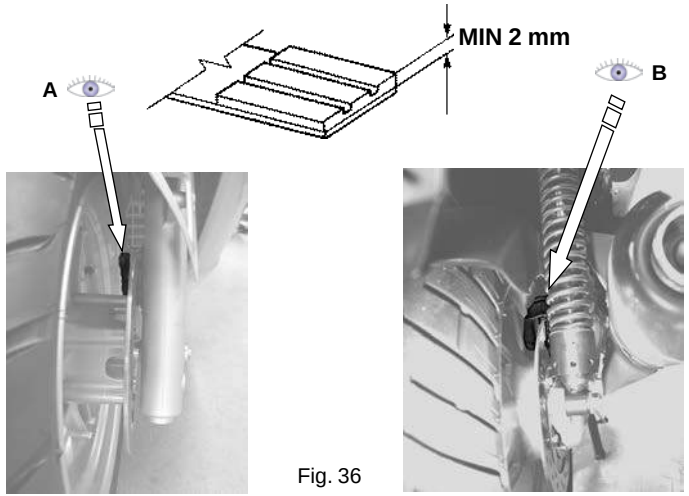



Fig. 36

## 5.14 LIGHTS

### 5.14.1 HEADLIGHT

- To increase visibility at night, quartz (halogen) type headlights are fitted.
- **Low beam / high beam** (A - Fig. 37)
  Halogen bulb 12V - 35/35 W (HS1)
- **Parking light bulb** (B - Fig. 37)
  Bulb 12V - 5W (W5W)

For information about light controls, see chap. 3.12 and 3.13

**We advise you to check if the replaced bulb works properly before refitting the headlight unit definitively.**

### Adjusting the beam

Have the beam of the headlight periodically checked by an **Authorised RIEJU Service Centre.**

**To check/adjust the beam, proceed as follows:**

- put the vehicle in running conditions at 10 metres from a wall.
- Turn on the low beam headlights and keep the vehicle balanced without a stand (lean it against a wall for instance).
- Remove the front air intake (P – Fig. 37a) by loosening the 2 fixing screws (V – Fig. 37a) of the light to adjust.
- With the aid of a screwdriver, turn the screw for adjusting the projector (R - Fig. 37b), bearing in mind that **turning clockwise lowers the beam** and vice versa
- Adjust one light at a time, whilst covering the other.

Adjust the beam so that its bottom line projected on the wall is at about 73 cm from the floor.

- Refit the front air intake.

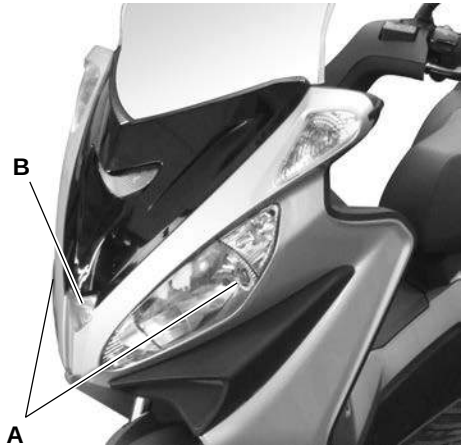


Fig. 37

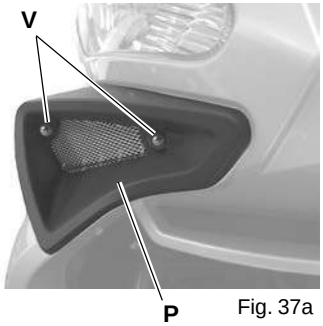


Fig. 37a

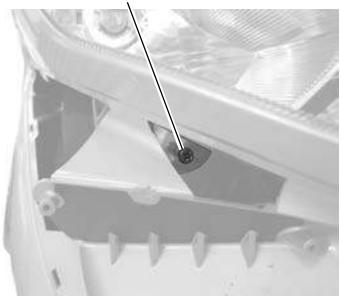


Fig. 37b

## Replacing headlight bulbs

**Low beam / high beam light on left side**

- Remove plastic cover on left hand side of handlebar (C - Fig. 38).
- Remove connector, rubber cap and fixing spring (Fig. 38a)
- Replace bulb.
- Refit connector, rubber cap and fixing spring.

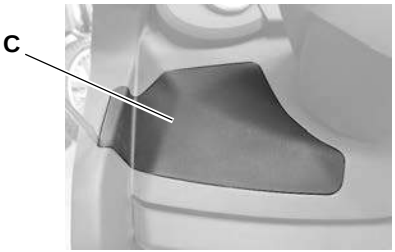



Fig. 38

Fig. 38a

**Low beam / high beam light on right side**

- Remove air intake on right hand side (P - Fig. 38b) by loosening the 2 fixing screws (V - Fig. 38b)
- Remove connector, rubber cap and fixing spring (Fig. 38c)
- Replace bulb.
- Refit connector, rubber cap and fixing spring.
- Refit air intake on right hand side.

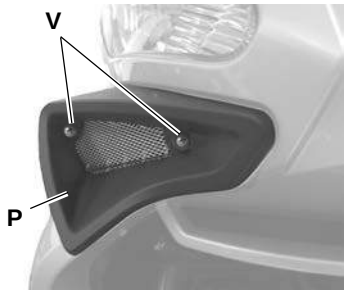



Fig. 38b

Fig. 38c

**When performing the operations described above, pay attention not to damage parts nearby (transmission, wiring, gaskets, etc.)**

### 5.14.2 FRONT TURN INDICATOR

- **Front turn indicator**
  Light bulb 12V - 15W (W15W)

### Replacing front turn indicator light bulb

- Remove cover (C - Fig. 39) (right or left, depending on which bulb you need to replace).
- Remove rubber lamp socket (L - Fig.39a) by turning it anti-clockwise.
- Replace light bulb.
- Refit rubber lamp socket by turning it clockwise. Fasten handlebar casing.

**The rate at which the turn indicator warning light on the instrument board flashes will increase to signal that one of the four indicators is not working.**

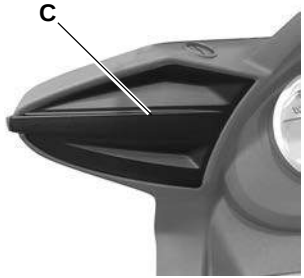



Fig. 39


Fig. 39a

**When performing the operations described above, pay attention not to damage parts nearby (transmission, wiring, gaskets, etc.).**

### 5.14.3 TAIL LAMP (with stop light)

- **Parking light + stop light** (B - Fig. 40)
  Bulb 12V - 21/5W (P21/5W)

- **Rear turn indicator** (E - Fig. 40)
  Bulb 12V - 15W (W15W)

Visually check if the tail lamps work properly, including the stop light and parking light, as well as turn indicators, by pulling one of the two brake levers. If you notice improper operation, contact an Authorised RIEJU Service Centre.


Fig. 40

### 5.14.4 NUMBER PLATE LIGHT

- **Number plate light** (C - Fig. 41)
  Bulb 12V - 5W (W5W)

  To check if number plate light (C - Fig. 41) is working properly, flick the light switch, which is on the right-hand side control, to its central position and turn the key to starting position.


Fig. 41

### Replacing number plate light

To replace number plate light:
- Remove rubber lamp socket (P - Fig. 42) that can be accessed through slot on rear mudguard.
- Replace light bulb.
- Refit lamp socket.

**When performing the operations described above, pay attention not to damage parts nearby (transmission, wiring, gaskets, etc.)**

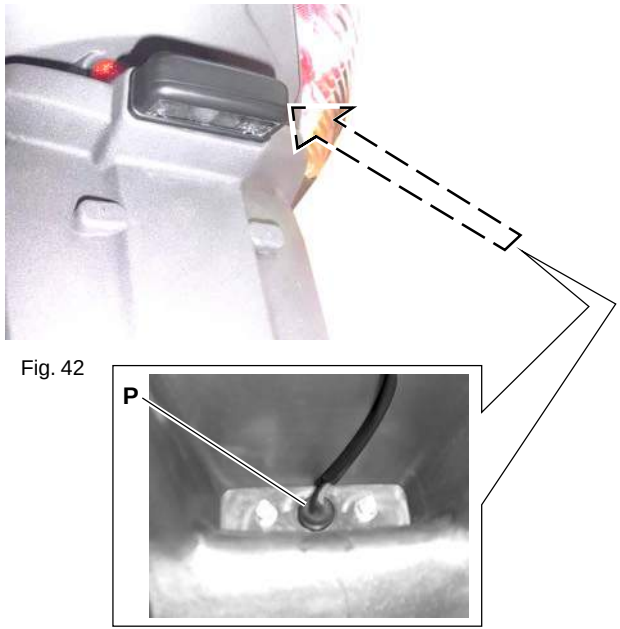



Fig. 42

## 5.15 FUSES

- The electrical equipment includes eight fuses protecting the main components against faults. These are located in the glove compartment (Fig. 43). They are:

| | | |
|---|---|---|
| A) 15 A | | Lights |
| B) 7.5A | | Stop light + turn indicators |
| C) 3A | | Control unit with key activation |
| D) 5A | ACC. MOTOR | Acc. Motor |
| E) 30A | PRINCIPAL | Main |
| F) 10A | A.T. INJECTION PUMP | Coil - Fuel pump - Injector - Lambda |
| G) 7.5A | | Fan |
| H) 3A | | Main control unit power supply |

- To replace a fuse, open the lower fairing cover, remove the blown fuse and replace it with one of the same capacity. Inside the lower fairing compartment, you will find some spare fuses. Check that the fuse you are using has the same amperage of the fuse you are replacing.
- The vehicle features another main protection fuse (30 A) located beside the battery (Fig. 43b).
  If the main protection fuse blows during use, check how serious the causes are. Then have the vehicle checked by an Authorised RIEJU Service Centre.

**Do not replace the fuse with one having a higher capacity, as it could seriously damage the electrical equipment and cause a fire on the vehicle in the event of a short circuit.**

**If the fuses blow, even if they have been replaced, have them checked by an Authorised RIEJU Service Centre.**

**Every time the power supply is reconnected after replacing or removing a fuse (E - C -H), perform the CONTROL UNIT SETUP PROCEDURE (see § 5.16.1 on page 47).**

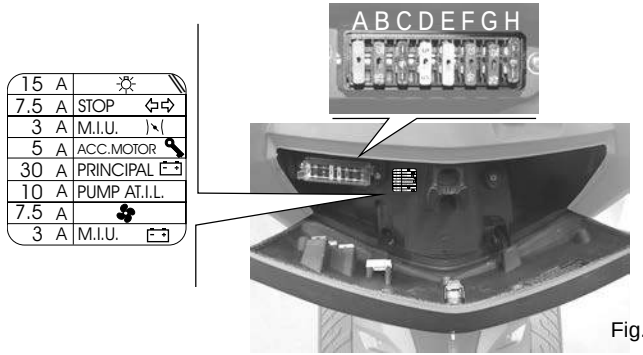



Fig. 43

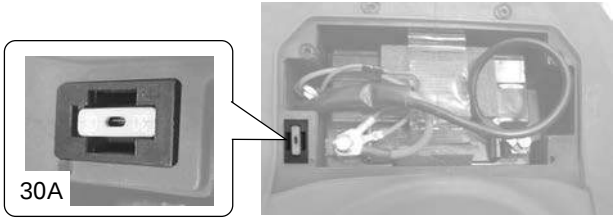



Fig. 43b

## 5.16 BATTERY (12V - 12Ah maintenance free)

The battery is under the passenger's seat.

**Fitting battery (operation performed delivery)**

To fit battery, proceed as follows:

- Take a charged battery.
- Raise the seat with the ignition key.
- Loosen the two screws (V - Fig. 45) securing the passenger's seat in place using an Allen wrench.
- Detach **30A** fuse beside the battery (F - Fig. 46).
- Remove wiring with the **RED/BLUE** (**+**) and **BLACK** (**-**) **wires** to connect to the battery.
- Place battery in its compartment and make sure it is correctly seated.
- Hook the battery up.
  **Positive pole (+) RED/BLUE wires**
  **Negative pole (-) BLACK wires** (Fig. 46).
- Put passenger's seat back in place and secure in place with the screws.
- Refit **30A** fuse and close the door.
- Perform the CONTROL UNIT SETUP PROCEDURE (see § 5.16.1)
- Set up the instruments.

**Should it be necessary to detach the battery or main fuse, wait at least 30 seconds after turning key "OFF" , to enable control unit to correctly store information.**

### 5.16.1CONTROL UNIT SETUP PROCEDURE

Every time a battery or the main fuse is connected, perform the control unit initialisation operations, as follows:

- make sure the side stand is up (idle), lights and indicators are off and emergency switch is **"ON"** .
- Turn key **"ON"** for at least 10 seconds (but do not press the start button).
- Keep key **"OFF"** for at least 10 seconds.
- Follow the instrument board setup procedure (Chap. 3.12.4)
- You can now use your vehicle.

**Do not use the vehicle if the battery has not been fitted correctly and connected to its cables. This may cause failures and short circuit of the electrical system and its components.**

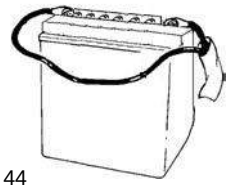


Fig. 44


Fig. 45

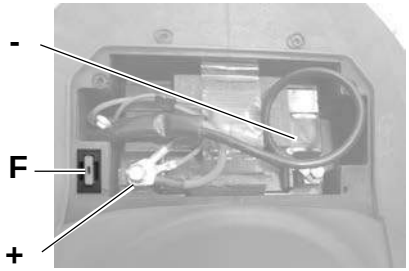



Fig. 46

**NEVER invert the cable connections.**

**If the battery remains flat it will be seriously damaged.**

**We advise you to use protective gloves and goggles while removing the battery from its housing, for example to recharge the battery.**

**Battery recharging**

- To carry out this operation, we advise you to remove the battery from its housing.
- Disconnect the cables.
- **It is good practice** to recharge with an amperage of 1/10 with respect to that of the charged battery.
- Refit the battery, being careful to connect the **positive cable (red) to the + pole** and the **negative cable (black) to the - pole**.
- **The battery** must always be kept **completely charged**. During winter or when the vehicle is not used, charge the battery at least **once a month.**

**Danger of explosion! Never use open flames (lighters, matches, etc.) to check the battery liquid level.**

**The battery contains sulphuric acid, which is highly toxic. Avoid any contact with eyes, skin or clothes. Keep the battery out of children's reach.**

**If you are using the socket in the glove compartment to charge/maintain the charge of the battery (see chap. 2.3 on page 11), we recommend you to remove the passenger's seat (as described in the "BATTERY" section) so as to guarantee sufficient battery ventilation.**

## 5.17 TROUBLESHOOTING

- If the vehicle does not operate correctly, run the checks and carry out the operations described herein.
- If the problem persists, contact an Authorised RIEJU Serv-ice Centre, which has the required equipment and experience for any kind of adjustment and repair.

**We advise you to note the possible operating troubles discovered in various riding conditions on page 50 'NOTES', so as to report what exactly happened to the Authorised RIEJU Service Centre.**

**FAULTY BRAKE SYSTEM**

**The vehicle does not brake or the brake lever travel is too long.**

- For both hydraulic brakes, check the oil level in the brake pump chamber, situated on the handlebar, and if necessary, have it topped up or purged by an Authorised RIEJU Service Centre.

- Check the thickness of the brakes pads **every 2,000 km (1,248 mi)**.

### THE ENGINE DOES NOT START

1) **Brake lever not pulled:**
   • pull one of the two brake levers.
2) **Main switch not activated:**
   • insert the key and turn it clockwise.
3) **Make sure that:**
   • the engine stop switch on the right side of the handlebar is not activated or that the sidestand is not in rest position.
4) **Flooded engine:**
   • contact an Authorised RIEJU Service Centre.
5) **Clogged or dirty air filter:**
   • cont act an Authorised RIEJU Service Centre.
6) **The starter motor runs too slowly:**
   • the battery is flat or partially run down – contact an Authorised RIEJU Service Centre.
7) **The starter motor works but the vehicle does not start:**
   • Check the state of the spark plug; if necessary clean or replace it.
   • If the fault remains, contact an Authorised RIEJU Service Centre.

## 5.18 STORAGE

To keep the vehicle in good conditions before long term storage, remember to:

- Start and run the vehicle for about 10 minutes in order to drain any water and enable oil to spread over all internal mechanisms and walls.
- Remove the spark plug and pour a spoon of engine oil inside the head and then refit the spark plug.
- Press the starter button a few times so as to allow the oil poured in to lubricate the parts subject to heat.
- Lubricate the control cables.
- Cover all metal surfaces with a coat of oil (not on rubber or plastic parts).
- Remove the battery and recharge it.
- Store the vehicle in a dry place.
- During long term storage, make sure there is enough fuel (approx. 2 litres) in the fuel tank to preserve the fuel pump in good working order. **No fuel in the pump could cause serious damage.**

## 5.19 CLEANING

To keep each part of your vehicle in perfect working order, we advise you to clean it properly.

- Before cleaning, protect the exhaust pipe and make sure that the spark plug and the petrol and oil tank caps are properly closed.
- For cleaning, never use chemical products, which may spoil the vehicle paintwork, plastic and rubber components, etc. **Avoid using aggressive solvents, which can oxidise metal parts.**
- An excessive water pressure while cleaning the vehicle may damage its mechanical and electrical components, especially those on the front side of the vehicle (handlebar, upper fairing, instrument board, lights, etc.).
- **Avoid high pressure washing, for instance pressurised washing appliances and the like.**
- To correctly clean the windscreen, use a soft, clean cloth or a sponge soaked in neutral detergent.
- While cleaning the vehicle, make sure that the cooling surface, situated at the back of the front wheel, is not clogged by mud, paper, leaves, etc. In the presence of dirt, clean with a jet of water or air at a moderate pressure.

**NOTES:**

# 6 ACCESSORIES

The vehicle can be fitted with following accessories:

- LUGGAGE CASE
- LUGGAGE CASE FIXING KIT
- SEAT BACK FOR SECOND PASSENGER FOR LUGGAGE CASE

**The RIEJU spare parts catalogue is frequently updated. Contact your Authorised RIEJU Service Centre for information about the new accessories for your "City Line"**

- **RIEJU S.A.** grants the full compatibility of its vehicle with RIEJU original accessories. Always refer to an Authorised RIEJU Service Centre.

- **RIEJU S.A.** is released from all liability for damage to the vehicle or to the user due to installation of non-original accessories. Likewise, **RIEJU S.A.** is released from all liability for damage to the vehicle or harm to the user due to improper installation of accessories, original included, the said responsibility being borne by the party who performed said installation.

- If you wish to fit electric or electronic accessories, always make sure that they do not interfere with the vehicle's normal operation and in case of doubt contact an Authorised RIEJU Service Centre for full information.

- If you wish to fit a non-approved part to the vehicle, contact **RIEJU S.A.** before doing so, to find out if said accessory is compatible with your vehicle.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*VOUS BÉNÉFICIEZ D UNE GARANTIE CONSTRUCTEUR DE 2 ANS (PIÈCES ET MAIN D OEUVRE) TWO YEARS OF TOTAL WARRANTY IN OUR PRODUCTS (PARTS AND MANPOWER) DOS AÑOS DE GARANTIA (M O Y PIEZAS)