

# Marathon 125



**OWNER'S 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).

**OWNER'S MANUAL**

**MARATHON 125 AC**



english



RIEJU S.A. is grateful for the confidence you have put in their company and would like to congratulate you on your choice of motorbike.

The MRT 125 are the result of the long-term experience that RIEJU has had in competitions, which has led to the development of a high performance vehicle.

The objective of this owner's manual is to denote the use and maintenance of your vehicle, we ask you to read the instructions and information that follow carefully.

We wish to remind you that the life of the vehicle depends on how it is maintained. Maintaining the vehicle in perfect working condition reduces the cost of repair.

This manual has to be considered as an integral component of the motorbike and must remain part of the basic equipment, and handed over in the event of a change of vehicle ownership.

In the event of any problems, please consult the RIEJU dealer who will assist you.

Please remember that for your motorbike to perform correctly, you should always **fit original spare parts.**

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## **MOTORBIKE DESCRIPTION**

This motorbike has a 124 cc single cylinder; air cooled four stroke motor. With a piston diameter of 56,5 mm and it has a 49,5 mm bore.

The ignition takes place a generating Magneto of A.C of 140 through W.

Engine power is delivered to final drive chain via a Multiple metal clutch with constant pressure springs, submerged in an oil bath.

The engine is anchored to a highly resistant perimeter type chassis, with tapered steering bearings.

The front suspension consists of a hydraulic bracket with bars of 37 mm of diameter. The back suspension consists of a mechanical hydraulic shock absorber that provides great smoothness of operation.

The front disk brake is of a diameter of 260 mm of stainless steel and back of 200 mm.



## **IDENTIFICATION OF THE MOTORBIKE**

On the chassis you will find your motobike's identification number engraved .

The number is stamped on the right hand side of the front frame (Steering head.) is unique to every machine. This number is required to register your vehicle, this chassis or Vin number should be quoted when requesting warranty assistance or genuine Rieju spare parts.



# PRINCIPAL ELEMENTS OF THE MOTORBIKE

## KEYS

With this model, you will be given a set of keys, which are used for the Ignition switch/Steering lock. These keys are joined together by a small plastic panel, where the key number is engraved. We recommend that this number is kept in a safe place in case the keys are lost.

## INSTRUMENT AND INDICATORS

### **1-.Main Ignitions switch**

The Ignition switch has three positions: the Ignition off position, the start or Ignition on position and a third position which switches on the front and rear lights of the bike.

### **2-. Speedometer (Kmh and Mph)**

The speedometer has the odometer fitted, which is calibrated in kilometres

### **3-. Out of gear (Neutral) indicator (Green.)**

This light comes on when the gear change lever is in the neutral (N) position, that is to say, out of gear.

#### 4-. Temperature warning lamp (Red.)

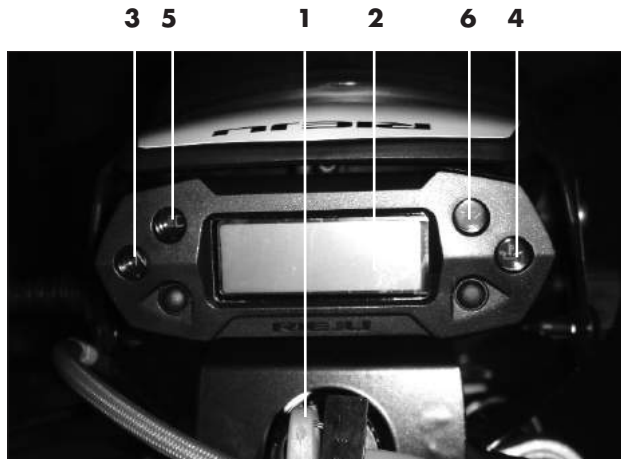
This light is very important as it can tell us if there is an excessive increase in engine running temperature.

#### 5-. Headlight Main beam warning light (Blue)

This indicator comes on when the headlights are on main beam.

#### 6-. Direction indicator warning lamp (Green)

This indicator comes on when we activate the direction indicators.



## HANDLE BAR SWITCHES (Left hand side.)

### 1-. Indicator Switch

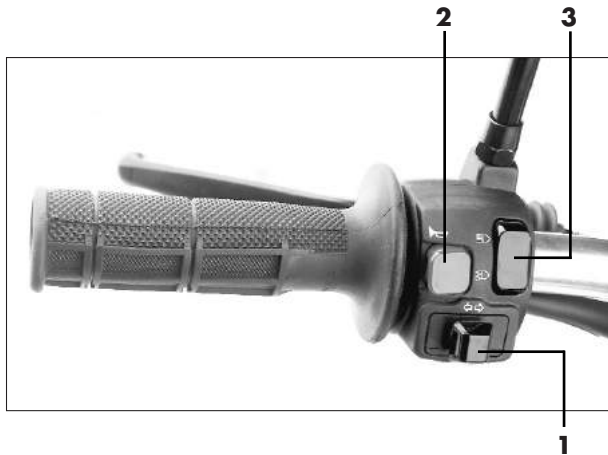
This has 3 positions: in the centre position it is deactivated, to indicate right it must be moved to the right and to indicate left it must be moved to the left. Note that the button always returns to the central position, to switch off the direction indicators push button.

### 2-. Horn Button (Red)

Press the button to activate the horn.

### 3-. Main and dip beam light Switch

This switch has two positions: when it's down the dip beam is on and in the upper position the main beam is illuminated. The lights run directly from the engine, to switch the lights on the Ignition key has to be turned towards the lighting position.



#### 4-. Ignition Switch

This switch is used to start the engine, after verifying that the gear-change pedal is in the neutral position.

#### **Cold Start (Choke) (*in the carburetor*)**

When the motor is cold, the choke lever should be placed in the On position.

**CAUTION:** Once the motor has reached it's normal working temperature, return the choke lever go back to it's original position, otherwise it could cause the motor to misfire.



4

## CLUTCH LEVER

The clutch lever is situated on the left-hand side of the handlebar. To activate it, pull the lever towards the grip or handlebar.

## FRONT BRAKE LEVER

The front brake lever is situated on the right-hand side of the handlebar. To activate the front brake, pull the lever towards the handlebar.

## REAR BRAKE PEDAL

The rear brake pedal is on the right-hand side of the motorbike. To activate it, press downwards with the foot.

## GEAR BOX PEDAL

This is situated underneath the left part of the motor, it is activated with the foot taking it all the way and then letting it go back to its' original position before changing gear again. To put the motorcycle into first gear, the pedal has to be pressed downwards. To change the other gears, lift the lever upwards with the toe.

## PETROL TANK

To get to the tank, open it using the stopper of the tank, turning it anti-clockwise. Remember that petrol without oil must always be used.

The capacity of the tank is 6.3 litres.

## PETROL TAP

The petrol tap is situated on the right-hand side of the vehicle, under the fuel tank.

It has three positions:

OFF: with the lever in this position, the fuel will not go through. Put the lever in this position when the motor is not running when parked and garaged.

ON: with the lever in this position, the fuel goes to the carburetor. Normal driving is done with the lever in this position.

RES: this position is RESERVE. If you run out of fuel while you are driving with the lever in the "ON" position, turn the lever to this position. Fill the tank as soon as possible, then it is important to remember to turn the lever back to "ON".



## CHECKS BEFORE USING MOTORBIKE

Check the following points before using your motorcycle:

### Items to be checked

### Check-up

Lights and indicators

Check if they work correctly

Front and rear brakes

Check the brake pads for wear and test brakes

Accelerator grip

Check the set, regulate and lubricate if necessary

Petrol tank

Check level and fill if necessary

Tyres

Check the tyre pressure and wear

Indicators (Instrument panel.)

Check if they work correctly

Clutch

Check adjustment and smooth operation

Transmission chain

Check tension and condition of chain and sprockets plus lubricate.

Each time the vehicle is used, it should be checked as above.

A complete check does not take more than a few minutes.

If during these checks any abnormality is established, it should be repaired before using the motorcycle.

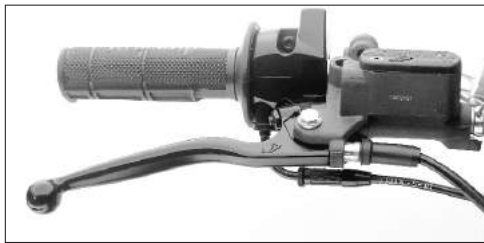


## ROUTINE TESTING

### FRONT BRAKE

Pulling in the front brake lever operates the front brake by pumping brake fluid from the master cylinder to the front brake calliper. The brake pads are pushed by the calliper pistons against the front disc. Slowing the bike down.

The braking surface of the disc should be free of oil and dirt to ensure maximum braking efficiency. If for any reason the master cylinder is empty of brake fluid after checking for pad wear it should be topped up as necessary. If there is air in the system the brakes will need to be bled. Loosen the bleed nipple on the front calliper, putting a petrol tube onto the nipple. This tube should be put in a recipient so as not to spill brake fluid. Undo the brake nipple on the calliper 1 or 2 turns only and gently operate the front brake lever so that the brake fluid goes down, until it comes out through the tube without any air bubbles. At this point, hold the brake lever in and close the bleed nipple. Top up the master cylinder reservoir as necessary with DOT 4 brake fluid. Replace the top and check brake efficiency.



**Bleed nipple**

## REAR BRAKE

Periodically check the brake fluid level in the reservoir situated on top of the rear brake master cylinder and under the rear right hand panel, to top up, use Dot 4 brake fluid. If the reservoir is empty please go to your local Rieju dealer.

## BRAKE FLUID LEVEL AND BRAKE PAD WEAR

Check that the level of brake fluid is correct, if not, Check for brake pad wear. If the pad material is less than 2mm thick, the pads should be replaced. If the pads are not worn out, top up the brake reservoir with brake fluid.

(WARNING Brake fluid is corrosive and will damage paintwork, if spilt wash off with water immediately)



**Always remember that the above must be carried out by a RIEJU official service.**

## THROTTLE TWIST GRIP

Ensure it works correctly, by turning the grip and verifying if the free play is correct. The grip should return to closed position when released.

## LIGHTS, INDICATORS AND WARNING LAMPS

Check operation of all lights, and direction indicators. Replace bulbs as necessary.



## TYRES

The tyre pressure directly effect the road holding ride comfort and braking distance, the, therefore check the tyre pressures regularly for your own safety. Make sure that the rim is central and not damaged, as well as the wear on the tyres. Do not overload the vehicle as this will effect stability, and increases tyre wear.

**CAUTION: when the pressure is very high, the tyres can no longer absorb any shocks, transmitting any road surface defects directly to the chassis, handlebar and rider.**

PRESSURES		
Tyre	Front	Rear
MRT	1,7 Kg/Cm <sup>2</sup>	1,8 Kg/Cm <sup>2</sup>
MRT-SM	1,8 Kg/Cm <sup>2</sup>	1,9 Kg/Cm <sup>2</sup>

## MOTORBIKE OPERATION

It is very important to know how to operate your vehicle correctly.

NOTE: remember that you must not leave the motor running in an enclosed area, as the toxic gas from the exhaust could cause serious health problems.

### STARTING AND RIDING.

Open the petrol tap.

If the motor is cold, fully open the choke lever.

Turn the ignition key one position clockwise and check the engine is in neutral, with the throttle closed depress the kick start to turn the engine over.

After a few kicks the engine should fire, allow the kick start to return to its rest position.

### TO RIDE AWAY

Pull in the clutch lever and put the motorbike in first gear (Down one click), slowly release the clutch lever while at the same time accelerating slowly once moving allow the clutch lever to go its rest position (OUT) and ride away.

Do not accelerate too much until the motor is warm enough.

**CAUTION: Before riding the motor should be warm, never accelerate or ride hard when the motor is cold. This will prevent pre-mature damage to your engine.**

## RUNNING IN

The most important period of your motorbike's life is between 0 and 500 kilometres and because of this we ask you to read the following instructions carefully. In the first 500 kilometres, the motorbike must not be overworked as the motor is new and the different parts of the motor have to wear in, until it works perfectly. During this period, avoid prolonged use of the motorbike at high revolutions or in conditions that could cause overheating.

## ACCELERATION

Riding speed and acceleration is controlled by opening or closing the throttle. Operating the twist grip toward you increases the speed and away from decreases the engine revolutions.

## TO BRAKE (SLOWING DOWN)

Close the throttle; activate the front and rear brakes simultaneously, increasing the pressure progressively.

**NOTE: Sudden braking can cause skidding**

## STOPPING

Close the throttle and activate both brakes simultaneously and when the vehicle has reduced speed, Pull in the clutch lever all the way. To stop the motor, switch off the ignition and remove key.

Once the motor has stopped always close the petrol tap.

## GEAR BOX PEDAL

The Gear lever is located near the left hand engine case of the motor and is activated with the foot taking it all the way down or up, letting it come back to its' original position before changing gear again. To put the motorcycle into first gear, the pedal has to be pushed downwards, to put in the 2,3,4,5,6 gears lift the lever up as far as it will go with the toe. Gear changing should be done carefully to ensure the gear you want is selected before releasing the clutch.

## CARBURETTOR

The carburettor provides the correct petrol air mixture to the engine. If the settings are tampered with poor performance and/or overheating may occur. If you have any problems please refer to your Rieju dealer.

## FRONT SUSPENSION

The front suspension consists of a hydraulic fork which has been crafted to the highest standards of technology and design.

### **Fork MRT / MRT SM 125**

Ø 37 mm. fork tubes

Oil capacity: 245 c.c. per leg

Type oil recommended: SAE 15W/20

## REAR SUSPENSION

The rear suspension is made up of a rectangular-pipe swing arm anchored to a hydraulic mono-shock absorber.

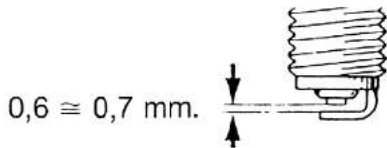


## SPARK PLUG CHECK

The spark plug is an important part of the motor and it is easy to check. Take the spark plug out and check it periodically, the high combustion temperatures and carbon deposits may effect the efficiency of the engine. If the electrode is too eroded or carbon deposits are excessive, change the spark plug.

### ***The correct plug is a DR8 DA / D8 DA***

Before fitting a new spark plug, check the gap between electrodes. This gap must be between 0,6-0,7mm.



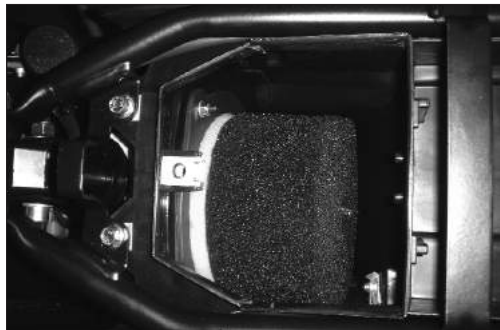
When installing the spark plug, always clean the area, around the plug hole to prevent any dirt etc. from entering the combustion chamber. Screw the spark plug in by hand, trying to make sure that it is not cross threaded finally tighten it  $\frac{1}{8}$  or  $\frac{1}{4}$  a turn with the plug spanner.



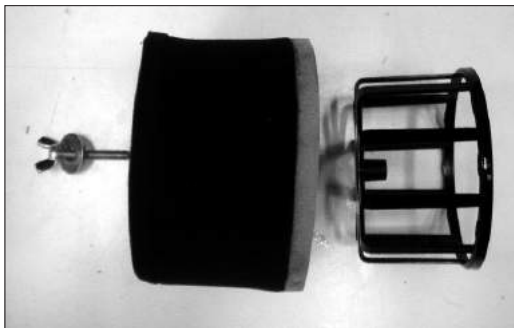
## AIR FILTER

To ensure that the engine runs correctly, the air filter must be kept clean and oiled.

In order to access the air filter, disassemble the motorcycle seat, allowing free access to the filter box. Remove the cover, which is attached to the box by a screw, and remove the filter housing.



After removal, check to see if the foam filter is blocked, in which case wash in paraffin, apply some air filter foam oil then squeeze the filter material between your hands to remove surplus oil. Do not wring out the filter element, as this will damage the foam. When refitting the air filter sure that the foam fits the box correctly so that no air can enter the engine without being filtered. It must be cleaned more frequently if the motorbike is used in humid or dusty places.

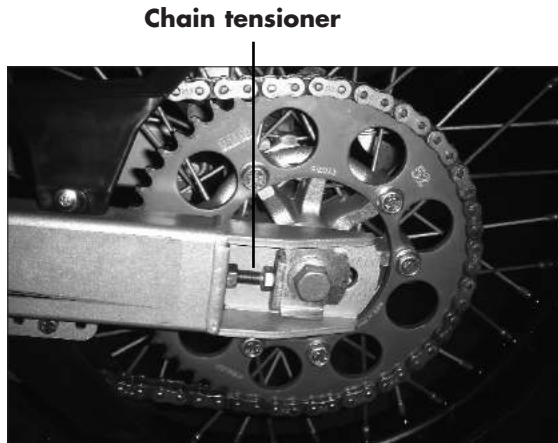


## TRANSMISSION CHAIN ADJUSTING AND LUBRICATION

To correct the chain tension, loosen the rear axle bolts and turn the adjustment plates of the rear wheel axle clockwise to tighten the chain and anti-clockwise to loosen the chain. Turn the rear wheel several times and check the tension in various areas to find the point at which the chain is at its tightest point.

To check the chain adjustment the chain tensioner must be pulled away from the chain. The chain should have 35 – 45 mm of movement.

Chain tolerance 35-45 mm.



Try not to over tighten the chain, as it will stretch and wear the sprockets much quicker and may damage the gearbox.

If the wheel and chain are badly aligned, this can cause the chain to come off, and severely affect the bikes handling.

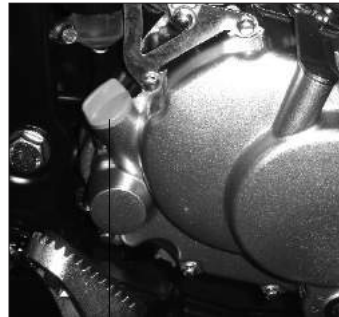
Periodically, it is necessary to clean and grease the chain. The chain is made up of many pieces which all work together. If the chain is not maintained properly, it will wear very quickly, therefore, it is advisable to grease the chain periodically with the correct chain lubricant.

Before lubrication, it is necessary to clean the chain to remove the dirt and the mud with a brush or a cloth and then apply the chain lube to all the chain links and sprockets.

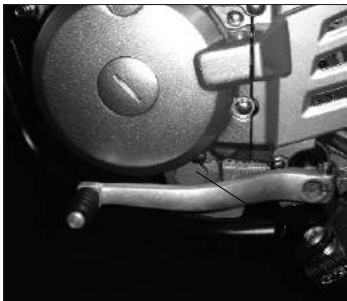
## LUBRICATION

Engine lubrication uses an oil pump which is located inside the oil sump. The gearbox and clutch use the same oil and the recommended type is CASTROL SAE 20W-50, with a total capacity of 1.2 litres.

The oil sump may be drained using the drain screw located at the lower left of the engine. It is recommended that the oil change operation be carried out while the engine is still warm as the sump will be cleaner and the oil will drain out with greater ease because it will be more fluid.



**Fill-dipstick cap**



**Drainage cap**

Remove the drainage screw and allow it to empty completely. Replace the screw once it is empty and refill by removing the dip-stick. One litre must be poured in since if the motor is not started, approximately 200 c.c. will always remain inside.

## **CLEANING, LUBRICATION AND STORAGE**

CLEANING. Frequent and thorough cleaning of your vehicle is an important part of maintenance and will reduce the risk of corrosion and help the resale value if the vehicle looks good. Near to areas in the sea or high mountain where salt is used on the road, we recommend a cleaning of the vehicle after use to prevent corrosion by the effects of salt. It is important to make a good clean at those points where the salt cumulates.

1. Before cleaning:
  - a) Cover the end of the exhaust to stop water getting inside.
  - b) Make sure that the spark plug and filler caps are fitted correctly.
2. If the motor is very dirty or greasy, use a degreasing agent (Refer to note above.) Do not apply this to the wheel axles or the chain, because that would remove any protective layer of lubricant.
3. Using a hose pipe remove the degreasing agent and dirt, but only with the pressure that is necessary. (DO NOT USE A PRESSURE WASHER.)

**NOTE: Rieju is not responsible for the use of degreasing agents that may stain or mark the body work or chassis.**

**Rieju is not responsible for the possible damage and wear and tear due to using a pressure hose to clean the vehicle.**

4. Once the dirt has been removed, wash all the surfaces with warm water and soft detergent. To get to the difficult areas, use a bottle-washing brush or something similar.
5. Immediately rinse with cold water and dry all the surfaces.
6. Clean the seat with a combination vinyl upholstery cleaner to keep it lustre and flexible.
7. To finish off, start the motor and let it run slowly for a few minutes. This way we can dry the bike out completely
8. When dry inspect the bike for any corrosion, it may be necessary to repaint the exhaust with a heat protective paint and touch up stone chips on the frame to prevent further corrosion.

## LUBRICATION

Apply lubrication to all cables, Chain and sprockets if necessary. Plus a water repellent agent to all electrical switches and exposed connections.

## STORAGE.

Storage of the motorcycle for a long period of time demands certain care to prevent deterioration. Once it is clean and lubricated, prepare to store the motorcycle in the following manner:

1. Drain the petrol tank, petrol pipes and the carburettor bowl.
2. Take the spark plug out and put a spoonful of SAE 10/30 oil through the plug hole and replace the spark plug.
3. Cover the exhaust with a plastic bag to stop the humidity getting in.
4. Completely cover a bike with a sheet to keep of dust

<b>BASIC MAINTENANCE CHECKS</b>	1st REVISION	2nd REVISION	3rd REVISION
	500 KMS.	3.500 KMS.	3.000 KMS
Brake efficiency check and brake pad wear.	•	•	•
Check level of gearbox oil	Change	•	Change
Check tension and wear on chain and sprockets	•	•	•
Check suspension	•		•
Check, adjust and grease controls and cables	•	•	•
Check tension of wheel spokes and wheel alignment	•	•	•
Clean and oil air filter	•	•	•
Check and adjust carburettor if necessary	•		•
Check and adjust spark plug or change it	•	•	•
Check all screws and chassis screw – plastic parts	•		•
Check electric system, lights horn and indicators etc	•		•
Check wear on all bearings, steering head and wheel			•
Check coolant level of in radiator	•	•	•
Check exhaust system.(Remove corrosion and paint)			•
Check oil pump function	•		•



## TECHNICAL SPECIFICATIONS AND CHARACTERISTICS

<b>Model</b>	<b>MRT / MRT - SM 125 AC</b>
<p><b>Dimensions:</b></p> <ul style="list-style-type: none"> <li>Total length</li> <li>Total width</li> <li>Total height</li> <li>Total seat height</li> <li>Distance between axles</li> <li>Minimum distance to the floor</li> </ul>	<ul style="list-style-type: none"> <li>2150 mm. / 2070 mm.</li> <li>800 mm. / 800 mm.</li> <li>1165 mm. / 1145 mm.</li> <li>890 mm. / 870 mm.</li> <li>1405 mm. / 1380 mm.</li> <li>310 mm. / 288 mm.</li> </ul>
<p><b>Basic weight:</b></p>	<p>110 Kg.</p>
<p><b>Engine:</b></p> <ul style="list-style-type: none"> <li>Type</li> <li>Number of gears</li> <li>Cylinders</li> <li>Engine capacity</li> <li>Piston size, bore</li> <li>Starter system</li> <li>Lubrication system</li> <li>Oil type</li> </ul>	<p><b>MRT / MRT - SM 125 AC</b></p> <ul style="list-style-type: none"> <li>4 stroke air cooled</li> <li>5 gears</li> <li>1 inclined forwards</li> <li>124 c.c.</li> <li>56,5 x 49,5 mm</li> <li>Electrical</li> <li>Humid case</li> <li>4 stroke CASTROL TTS 20w 50</li> </ul>

<p><b>Huile de transmission:</b> Type Quantity</p>	<p>CASTROL SAE 20W 50 1,2 liters</p>
<p><b>Air filter</b></p>	<p>Humid rubber foam</p>
<p><b>Petrol:</b> Type Tank capacity</p>	<p>Unleaded petrol 95 6,3 L</p>
<p><b>Carburettor</b></p>	<p>DENI PZ26K</p>
<p><b>Bougie:</b> Type Electrodes separation</p>	<p>DR8 DA / D8 DA 0,6 - 0,7 mm</p>
<p><b>Clutch type</b></p>	<p>Multidisks in oil bath</p>
<p><b>Secondary transmission</b> Front sprocket Rear sprocket Transmission relation Chain</p>	<p>Z = 15 Z = 48 1 : 3,20 428 x 134 pas</p>

SPEED CHANGE				
Speed	Primary tree	Secondary tree	Gear change ratio	
1°	Z = 13	Z = 36	1 : 2,77	
2°	Z = 17	Z = 32	1 : 1,88	
3°	Z = 20	Z = 28	1 : 1,40	
4°	Z = 23	Z = 26	1 : 1,13	
5°	Z = 25	Z = 24	1 : 0,96	

**Suspension: MRT / MRT SM 125**

Front

Upside down forks Ø 37 mm.

OIL FORK 15W 20, 245 cc each leg.

Rear

Hydraulic shock absorber.

<p><b>Brakes:</b>            <b>MRT / MRT SM 125</b></p> <p>Front Rear</p>	<p>Disc 260 mm Ø Disc 200 mm Ø</p>
<p><b>Tyres:</b>            <b>MRT 125</b></p> <p>Front Rear</p> <p><b>MRT SM 125</b></p> <p>Front Rear</p>	<p>80/90 - 21, with inner tube, 1'7 kg/cm<sup>2</sup> 110/80 - 18, with inner tube, 1'8 kg/cm<sup>2</sup></p> <p>100/80 - 17, 1'8 kg/cm<sup>2</sup> 130/70 - 17, 1'9 kg/cm<sup>2</sup></p>
<p><b>Electric equipement:</b></p> <p>System of ignition Generator Battery</p>	<p>C. D. I. Magneto AC 140 w 12 v From 3 Ah.</p>

**Voltage and bulb output:**

Light

Rear pilot light

Instrument cluster

Indicators

Odometer lighting

12 v 35/35 w H4

12 v 21/5 w

12 v 1,2 w

12 v 10 w

Leds





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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).