

**RODVA**



**owner's manual**



## RUNNING IN

During the first 600-900 miles do not run the engine at high speed for a long time. It is recommended to vary speeds in order to break in the engine properly. 5% oil, petrol mixture.

## After the first 300 miles

Change the oil in the crankcase « Agip F. 1 Motoroil HD SAE 20 W/30 » or equivalent two-stroke oil.

Check and if necessary tighten all nuts and bolts.

Check tension of wheel spokes.

## Spare parts

In case of parts replacement, ensure that « Original Moto Guzzi Spare Parts » only are used. The use of non-genuine parts invalidates every warranty right.

## Warranty

The warranty extends for a period of 3 months from date of purchase.

This motorcycle has been designed and all components selected by the manufacturer to form a balanced, safe and mechanically cohesive motor vehicle. Any alteration to the frame, fork, other mechanical components or the use of unauthorized parts may alter the geometry, steering and handling qualities of the vehicle. Every owner of this motorcycle is cautioned against making these prohibited changes or alterations which may result in damage or injury for which neither the Manufacturer, Importer or Dealer will be responsible.

## MAIN FEATURES

### Engine

1-cylinder, 2-stroke

Bore	40 mm
Stroke	39 mm
Displacement	49 cc
Horse power	1,5 HP at 4400 rpm
Compression ratio	8,5 : 1
Engine dry weight approx.	20 lbs

**Fuel** 40% oil petrol mixture.

**Carburettor** « Dell'Orto », SHA 14.9 - Chocke  
Ø 9 mm - Main jet 45/100 - Collar Ø 18 mm.

**Ignition** magneto-flywheel, alternator

**Cooling** air cooled.

**Clutch** centrifugal, automatic clutch, in oil bath.

**Gearbox** single-speed.

**Starting** pedal kick.

**Primary drive** by gears.

**Secondary drive** by chain.

**Oil sump capacity** 0,160 lt « Agip F.1 Motoroil HD SAE 20 W/30 » or equivalent two stroke oil.

### Cycle

**Frame** stamped sheet metal.

**Suspensions** telescopic front fork, rear shock absorbers.

**Wheels** front and rear rims WM 0/1,5-16".

**Tyres** front and rear 2<sup>1</sup>/<sub>4</sub>-16".

**Brakes** expansion type, front and rear hand controlled.

**Electrical equipment** 6 V - 18 W.

**Fuel tank capacity:** approx. <sup>3</sup>/<sub>4</sub> gallon.

### Performances

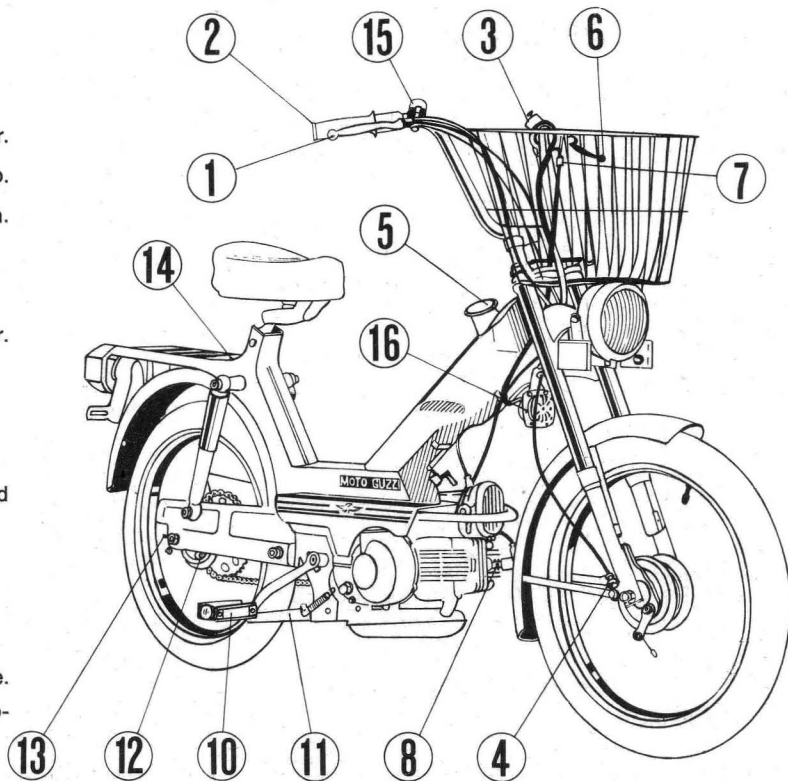
**Speed** under 25 mph

**Fuel consumption** approx. 175 mpg.

**Dry weight** approx. 100 lbs.

## LAYOUT OF CONTROLS

- 1 Front brake control lever.
- 2 Throttle control twist grip.
- 3 Light switch, horn button.
- 4 Front brake adjuster.
- 5 Fuel tank filler cap.
- 6 Rear brake control lever.
- 7 Starting control lever.
- 8 Spark plug.
- 9 Fuel tap.
- 10 Pedals, kick starting and foot-rest.
- 11 Bike stand.
- 12 Rear brake adjuster.
- 13 Chain tensioner.
- 14 Identification data plate.
- 15 Engine starting and stopping button.
- 16 Electric horn.



# RIDING INSTRUCTIONS

## Engine starting

- Set the bike on its stand (rear wheel not on ground).
- Turn the lever « F » of switch « E » (Pict. 6) to position « 1 » (RUN).
- Open the fuel tap on the fuel tank.
- Push down the control lever on the carburettor, bringing the same in starting position (horizontal - « A » Pict. 2).
- Turn the throttle control twist grip (« G » Pict. 6) 1/4 open.
- Pull the starting control lever fully in.
- Kick the pedal.

The engine started, let it warm up then turn the throttle control twist grip (« G » Pict. 6) in such a way that the control lever on the carburettor automatically turns back to riding position (« B » Pict. 2).

**Warm engine:** starting procedure as above, but without setting the control lever on the carburettor in starting position (« A » Pict. 2).

## Starting procedure with rider on saddle

After some distance pedalling, pull the starting

control lever (« E » Pict. 5) fully in and suddenly release it while turning the throttle control twist grip (« G » Pict. 6).

## Riding - Parking - Bicycling

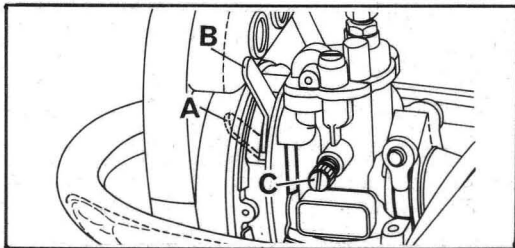
The speed is controlled by turning the throttle control twist grip.

For parking with a running engine, close the throttle only.

In case of emergency (no fuel, etc...) the vehicle can be used as bicycle without actuating any special device.

## Stopping

Close the throttle and turn the lever « F » of switch « S » (Pict. 6) to position « 2 » (OFF). The engine stopped, close the fuel tap.



## LUBRICATION AND MAINTENANCE

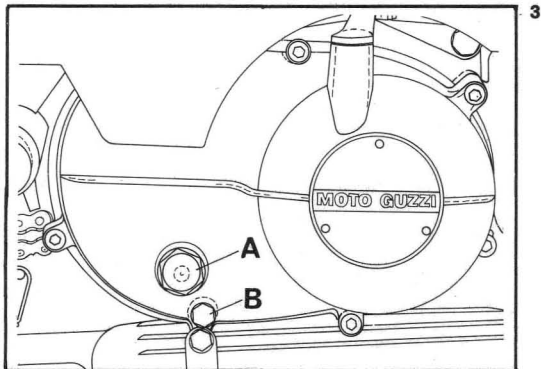
### Lubrication of the gear box

#### Level checking (Pict. 3)

Every 300 miles ensure that the oil level is correct. If necessary add the proper oil .

#### Oil changing (Pict. 3)

To be done with a **warm engine**, after the first 300 miles and thereafter every 6000 miles. Drain

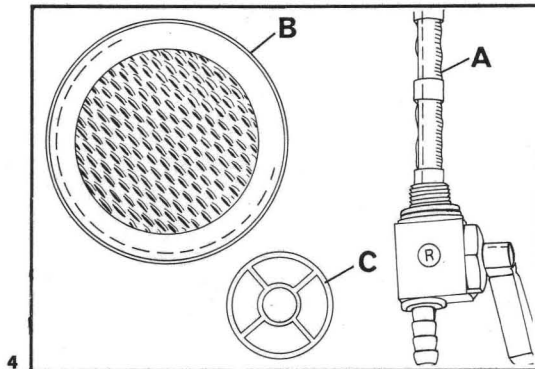


the crankcase very well before adding fresh oil. «A» filling cap; «B» draining plug.

Necessary quantity: approx. 5½ ounces oil «Agip F.1 Motor-oil HD SAE 20W/30» or equivalent two-stroke oil.

#### Control cable ends

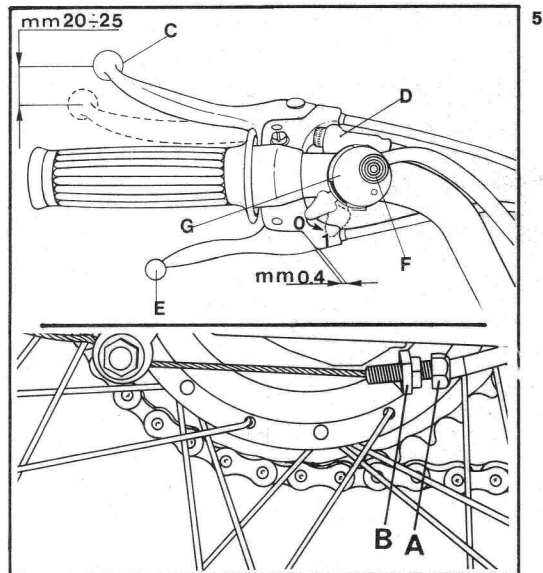
Periodically clean the ends of control cables and smear them with grease «Agip F.1 Grease 30».



## Maintenance and adjustments

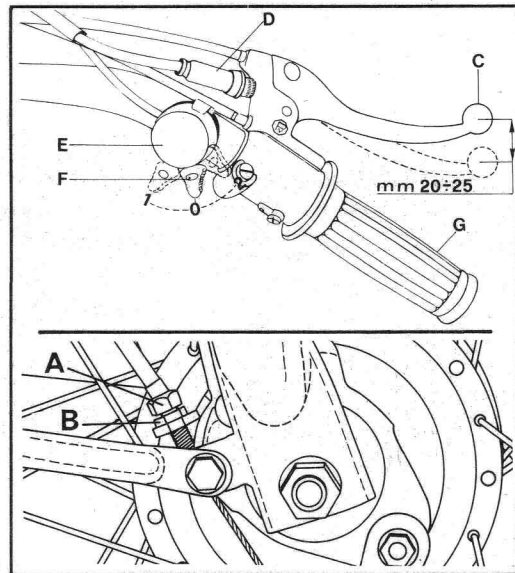
Periodically:

- wash in gasoline bath the filters « A », « B », « C » in Pict. 4 on carburettor and fuel tap;



- adjust clearance between starting control lever and starting control unit; 4 mm about (Pict. 5);

- adjust the movement of the front brake control lever « C », using adjuster screw « A » after

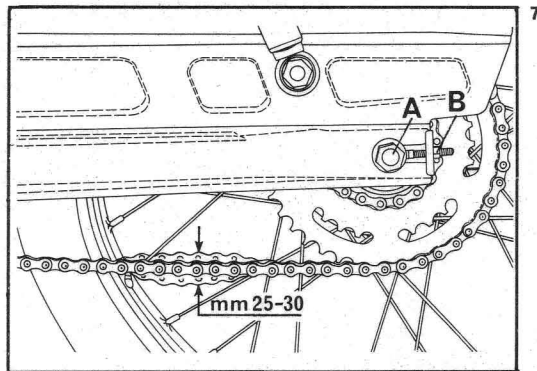




loosening counternut « B » (Pict.6). The idle movement must be 20-25 mm. The lever « C » actuates the stoplight cutout (D) and the tail light bulb « D » Pict. 9 lights on;

■ adjust the movement of the rear brake control lever, using adjuster screw « A » after loosening counternut « B » (Pict. 5). The idle movement must be 20-25 mm. The lever « C » actuates the stoplight cutout (D) and the tail light bulb « D » Pict. 9 lights on;

■ inspect the shoe linings for front and rear brakes.



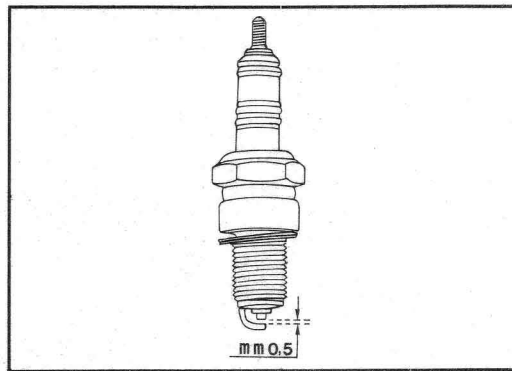
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Thickness of a new lining: mm 4 (.157)

Thickness of a limit worn lining: mm 2 (.079);

■ adjust the chain tension. Loosen first the nuts « A » on the rear wheel spindle, then screw in or out the nuts on the chain tensioners « B » (shake play in the middle of the chain is mm 25-30 - bike not on stand). Then true the wheel (Pict. 7);

■ check spark plug points gap: 0,5 mm (.019) (Pict. 8);



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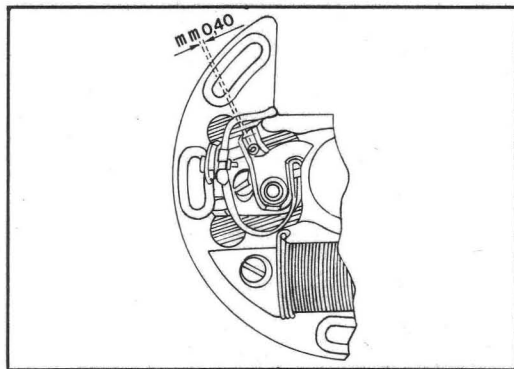
■ check contact breaker points gap: 0,40 mm (.016) (Pict. 9). The gap checked and adjusted, check the ignition advance. (29° - 25,5 mm - measured at the outside of the revolving part, prior to the arrow indicating T.D.C. of piston). This checking is to be made whenever poor engine efficiency.

It is advisable to have the ignition advance checked by authorized dealers.

### Adjusting of idling speed

To be done on a **warm engine**, (bike not on

stand) wheels to ground. Screw in screw « C » (Pict. 2) until reaching the highest possible rpms just prior to the point that the bike starts moving.



# LUBRICATION AND MAINTENANCE CHART

PART	MAINTENANCE	TIME INT.	LUBRICANT
FUEL	4% Mixture (5% during the engine breaking in).		Agip F.1 - 2 T
TYRES	Pressure: — front 21 p.s.i.; — rear 25 p.s.i.	Periodically	
TRANSMISSION	Change gearbox oil, warm engine.	Ev. 6000 mi	Agip F.1 Motoroil HD SAE 20W/30
	Check oil level.	Ev. 300 mi	
SPARK PLUG	Check points gap mm 0,19.	Ev. 600 mi	
AIR FILTER	After cleaning, plunge into oil bath. Let it drain before re-fitting.	Ev. 1200 mi	Agip F.1 ATF Dexron
FUEL FILTERS	Clean fuel filters and tap, and carburettor.	Ev. 1200 mi	
CHAIN	Wash with gasoline, dry and lubricate.	Periodically	Agip F.1 Grease 30
MAGNETO-FLYWHEEL	Check contact breaker points gap .016.	Ev. 3000 mi	
ENGINE	Clean cylinder head, piston top, exhaust tube on cylinder, exhaust pipe and silencer.	Ev. 3000 mi	
FUEL TANK	Clean inside.	Ev. 3000 mi	
CARBURETTOR	Dismantle for overhauling and cleaning.	Ev. 3000 mi	
STEERING CAPS AND WHEEL HUBS	Clean caps and balls, if damaged, replace them. Fill the caps with grease and plunge the balls into oil bath.	Ev. 6000 mi	Agip F.1 Grease 30

## ELECTRICAL SYSTEM

Controls:

### Light control switch and horn button

(see Pict. 5)

It is located on the L/H side of the handlebar.

« F » horn button.

« G » lights control lever:

« 0 » lights off

« 1 » (10) lights on.

### Engine starting and stopping button

It is located on the R/H side of the handlebar.

« E » switch.

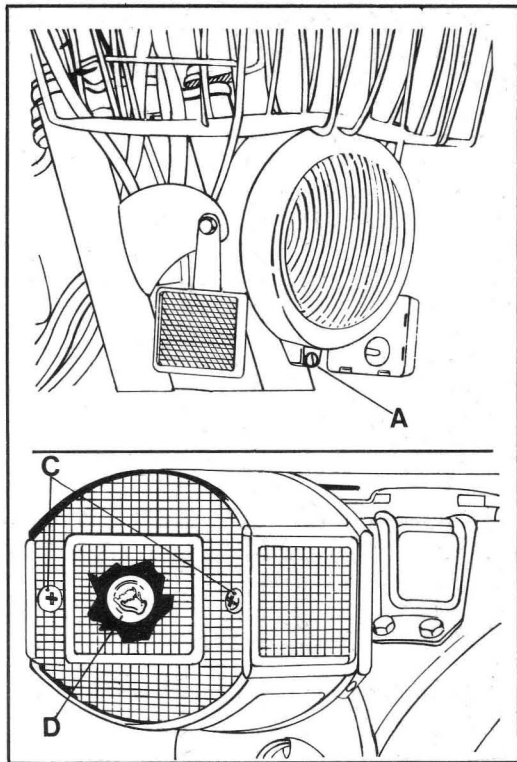
« F » switch « E » control lever:

« 1 » (RUN) starting position;

(the lever « F » set in this position, operates the starting pedals);

« 2 » (OFF) engine stopping position;

(to start the engine turn the lever « F » to position « 1 » (RUN).



# Bulb replacement procedure

## **Headlight**

Loosen screw « A » at the sealing beam bottom, detach the sealing beam and replace the bulb.

## **Tail light**

Loosen screws « C » securing the reflex reflector, push bulb « D » inside, at the same time turn and take it off the holder.

## **Bulbs**

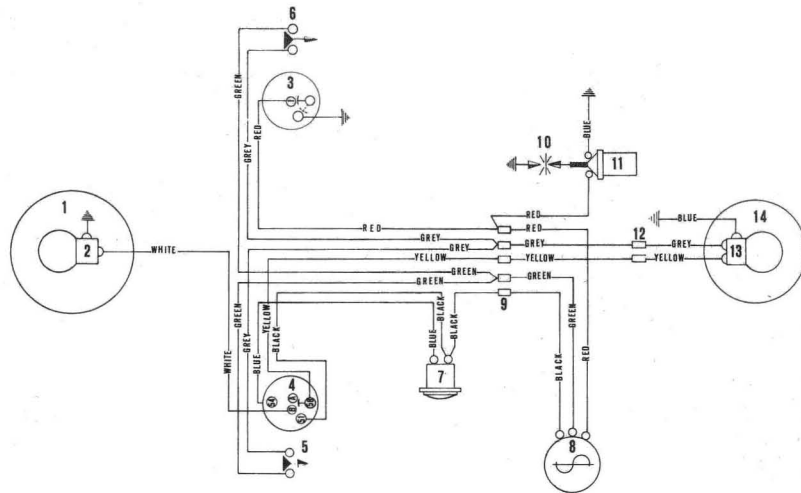
6 V - 20 W headlight (sealed/beam).

6 V - 5/18 W tail light.

# WIRING DIAGRAM

(Pict. 10)

- 1 Headlight
- 2 Bulb 6 V - 20 W
- 3 Engine stopping
- 4 Lighting
- 5 I.S.P.
- 6 I.S.A.
- 7 Horn
- 8 Flywheel
- 9 Equipment connections
- 10 Spark plug
- 11 Coil
- 12 F.P. Connections
- 13 Bulb
- 14 F.P.P.T.



Indicative data subject to change without prior notification.

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