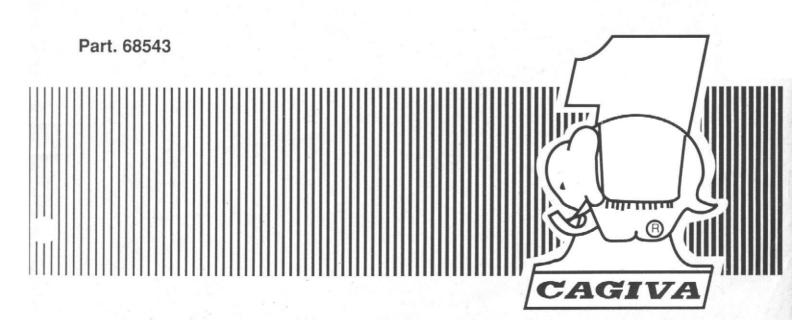
WORKSHOP MANUAL

MITO



Workshop Manual

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Foreword

This publication intended for CAGIVA Workshops has been prepared for the purpose of helping the authorized personnel in the maintenance and repair work of the motorcycles herewith dealt with. The perfect knowledge of the technical data contained herein is essential for a more complete professional training of the operator. The paragraphs have been completed with schematic illustrations evidencing the subject concerned, in order to enable a more immediate understanding. This manual contains information with particular meanings:

Accident prevention rules for the operator and for the personnel working near

Possibility of damaging the vehicle and/or its components.

Additional information concerning the operation under way.

Useful suggestions

CAGIVA suggests, in order to prevent troubles and in order to have an excellent final result, to generically comply with the following instructions:

 in case of repair work, weigh the impressions of the Customer who complains about the improper operation of the motorcycle, and formulate proper clearing questions about the symptoms of the trouble.

detect clearly the cause of the trouble. This manual gives the theoretical bases which however shall be integrated by the personal experience and by the attendance to training courses periodically organized by CAGIVA.

rationally plan the repair work in order to prevent dead time as for instance

procurement of spare parts, tool preparation, etc.

reach the component to be repaired and perform only the required operations. In this connection, it will be useful to consult the disassembly sequence contained in this manual.

General instructions for repair work

1 Always replace the seal rings and split pins with new components.

- 2 When loosening or tightening nuts or bolts, always start from the bigger ones or from the center. Lock at the prescribed torque wrench setting following a crossed run.
- 3 Always earmark the components or positions which could be mistaken one for another at the time of assembly.
- 4 Use original CAGIVA spare parts and the lubricants of the recommended brands.

5 Use special tools, where specified.

6 Consult the Service Bulletins as they may contain up-dated adjustment data and repair methodologies.





BEWARE!

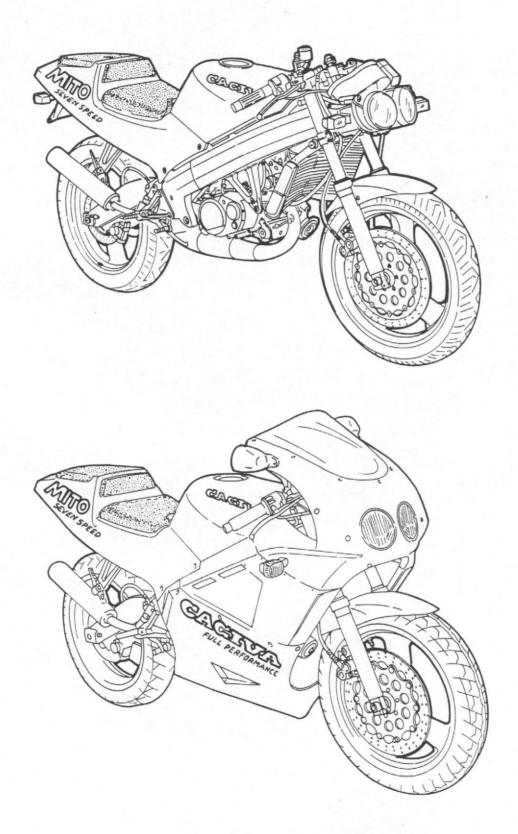
The bike is equipped with separate lubrication and warning light for oil reserve. For a correct operation of the motorcycle always make sure that, by turning the key to position «ON», the oil warning light goes «ON» together with the neutral warning light; when you go into a gear both of them will come OFF.

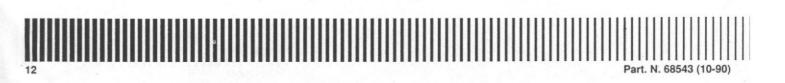


CAUTION

FUEL

- With temperature lower than -5°C fill up the fuel tank with 1% mixture rather than petrol only.
- Do not start engine with battery disconnected from connection cables of electric system; warn. lights and parking lights should be damaged.





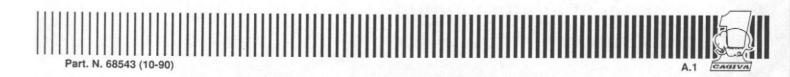
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ENGINE	BRAKES
Single-cylinder, two-stroke engine, with lamellar suction and electronic	Front brake
control C.T.S. valve on the exhaust system.	Perforated fixed disc, with hydraulic control and floating caliper.
Bore	Disc diameter
Stroke	Brake caliper
Capacity	Pad area
Compression ratio (with closed lights)	Rear brake
FILE FEED IN	Perforated fixed disc, with hydraulic control and fixed caliper.
FUEL FEEDING	Disc diameter
Intake setting by lamellar valve.	Brake caliper
DISTRIBUTION DIAGRAM	Pad area 3.41 sq.in.
TRANSFER: 124° EXHAUST:	
With closed valve	
With open valve 192°	FRAME
Carburetor Dell'Orto PHBH 28 RD	Double cross-member with extruded tubular and aluminium melted parts; rear tailpiece with square steel pipes.
LUBRICATION	Steering angle
ENGINE	Steering axis angle
Through variable delivery pump.	Front fork caster
SHIFTING and MAIN TRANSMISSION	
Through the oil contained in the engine block.	
	SUSPENSIONS
COOLING	Front suspension
With liquid circulation through a pump.	Tele-hydraulic fork with possible adjustment of the inner spring
Big bent radiator, constrained to the frame.	preload.
	Producer
IGNITION	Legs diameter
Electronic.	from wheel bump position for the stiding dxis/4.642 III.
MakeKOKUSAN	Rear suspension
Ignition advance:	Light alloy floating fork with "banana" shaped R.H. arm. Progressive
(corresponding to 0.039 in. of piston stroke before T.D.C)	leverage suspension (SOFT DAMP system) and hydraulic mono-
Spark plug	damper with helical spring. The spring preload can be adjusted.
Electrode gap	Damper make
CTADTINIC	Rear wheel vertical travel
STARTING	
Electric.	

TRANSMISSION

Cluster constant-mesh gears. Primary ratio

Gear ratios

Ocul Tullos	
1 st	2,727
2nd	1,857
3rd	1.411
4th	1,142
5th	
6th	0.863
7th	0.818
Final drive ratio	Z 14/43=1:3 071
Gearing chain	5/8"×1/4"
Total ratios	,
1 st	27 224
2nd	
3rd	14 092
4th	11 408
5th	9 548
6th	8.621
7th	8 167

F		
Front	nra	V 6
I I VIII	₽1 4 1	

SIONS

WHEELS

Three-spoke light alloy front rim. MakeGRIMECA Three-spoke light alloy rear rim. Make GRIMECA

TYRES

Front (*) Manufacturer and type...... PIRELLI TUBELESS MT75 Dimensions 100/80-17'

or:
Manufacturer and type MICHELIN TUBELESS RADIAL Dimensions 110/70-R17
Inflation pressure (in cold condition) 26





Rear (*)

or:

Inflation pressure (in cold condition)

(*) In alternative, **PIRELLI** and **MICHELIN** on model without fairing. **MICHELIN** on model with fairing.

ELECTRIC SYSTEM

The ignition system is composed by:

- Generator: 12V-120W for a full battery recharge;
- Starting motor 12V-500W;
- Electronic coil;
- Electronic device:
- Voltage rectifier;
- Solenoid starter;
- Starting control system;
- Ignition spark plug.

The electronic control of the exhaust valve is composed by the following parts:

- Opening valve control system;
- Valve control motor 12V-3,3 W.

The components of the electric system are:

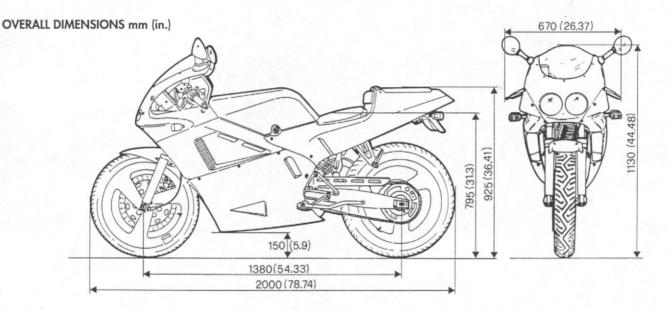
- Double headlight with bilux lamps 12V-25/25W and parking light bulbs 12V-5W;
- Dashboard with instruments bulbs 12V-2W and warning lights 12V-1,2W;
- Blinker with bulb 12V-10W;
- Battery 12V-9A;
- NO. 4 fuses 15A, two spare-fuses;
- Tail light with stop light 12V-21W and parking light bulb 12V-5W.

PERFORMANCES

Max. actual speed	96.1 mile/h
Fuel average consumption	

WEIGHTS

Total dry wheight (model with fairing)	.266.75	lb.
Total dry wheight (model without fairing)	. 259.04	lb.



SUPPLY	ТҮРЕ	QUANTITY (liters)
Fuel tank	Super fuel 98-100 ON (min)	18
Reserve	(warning lamp comes ON)	4
Fuel mixture oil	AGIP 2T RACING PLUS	1
Change gear and main transmission oil	AGIP F. 1 SUPERMOTOROIL SAE 15W50	0,800
Front fork oil	Specific "MARZOCCHI" SAE 7,5	(see page 1.5)
Cooling system fluid	AGIP NUOVO PERMANENT EXTRA	1,5
Hydraulic brake fluid	AGIP BRAKE FLUID DOT 4	
Drive chain lubrication	AGIP CHAIN AND DRIVE SPRAY	_
Flexible connections	AGIP GREASE 30	



REMARK - At temperature lower than -5°C fill up the fuel tank with 1% mixture rather than petrol only.

A

WARNING! - Use of additives in fuel or lubricants is not allowed.

