

INTRODUCTORY

The MONTESA motorcycle which model is introduced here do not require an excessive care for maintenance, only a minimum attention is required to insure a long and perfect serviceable time.

With the present Manual we intend to guide you about this minimum care and at the same time make a disclosure of some technical features of your vehicle which undoubtedly would be of utmost interest.

PERMANYER, S.A.
MONTESA Motorcycles.

NOTE : The instructions and technical data given in this manual should be understood only on a description basis and right is reserved for alteration of some machine parts during their validity period.

"CAPPA 125 MX" Model

INTRODUCTION

The two-stroke monocylinder engine measures 124,98 cc. with a bore of 51,5 mm. and stroke of 60 mm. its brake power is 19 HP at 7.500 rpm., and ignition is made through a flywheel magneto-alternator.

The engine is seated over a frame fabricated with steel tubing, mutual and electrically bended and welded, and finally forming an assembly of great strenght, stout and perfect handling.

The front suspension is of the telescopic fork type and the rear one of swinging arms over elastic bushes which do not require any lubrication, with double effect hydraulical dampers of adjustable starting charge.

The carburetor (AMAL) has a diameter of 27 mm. and takes air through a air filter located under the seat and easily accesible.

The gearbox is of 4 speeds in "cascade" and constant take-up pinions, which coupled to the steel multiple disk clutch in oil bath and regular tension springs, makes an assembly of great smoothness and high performance.

The brakes are of internal expansion (180 mm. dia. rear; 130 mm. dia. front) anchored by means of reaction bars.

The driven toothed gear of the rear wheel is mounted over elastic bushes fully insulated from the heat generated in the brake assembly.

RECOMMENDATIONS FOR USE

PRECAUTIONS DURING RUNNING-IN.-

To obtain the proper adjustment of the movable parts of the new engine, it is advisable to make a running-in of two hours minimum.

During this running-in, two points should be noted:

- Check carburetion is rich rather excessive, lifting one point the carburetor needle or if needed, replace the main jet. Location climate and height have an influence on this.
- Do not accelerate excessively; the gas handle should turn up to 3/4 maximum of its travel at any of the speeds.

We consider very necessary to emphasize that these instructions should be fulfilled as otherwise the cylinder piston might be fretted because of the factory close tolerances needed to obtain a good performance of the engine during a prolonged time.

FUELS

Benzol as fuel should not be used as the engine is equipped with syntetic rubber parts.

For engine lubrication, "Bardahl-V.B.A." oil should be added to the fuel at the rate of 4% i.e. 200 cc. of oil for every 5 litres of petrol.

LUBRICATION

		fl.oz.	
		USA	GB
Engine	4% (1/5 for 5) Bardahl VBA	-	-
Clutch and main drive.	300 cc. SAE-20	10	10 1/2
Gearbox	330 cc. SAE-40	11	11 1/2
Front suspension	190 cc. SAE-20 for each arm.	6 1/2	6 3/4

SPARK PLUGS

- Features -

	<u>For racing</u>	<u>For training</u>
Bosch thermic grade	300 ÷ 310	270 ÷ 290
Electrode gap	0,40 mm.	0,40 mm.
Thread	14 mm. x 1/2"	14 mm. x 1/2"

RECOMMENDED TYPES

Bosch	W 310 T16	W-290 T16
Lodge	R-47	-
Champion	L-57R	L-60R
K L G	F-280	F-260

IGNITION

460306-1

CARBURETOR

Make	AMAL
Type	627
Diameter	27 mm.
Main Jet	170
Low Speed jet	40
Gas valve	2,5
Sprayer	106
Needle	U

This adjustment is susceptible to change according to weather conditions.

TYRE PRESSURE

Front wheel, dry ground	0,9 atm. (13 lbs./sq.in.)
Rear wheel, dry ground	0,8 atm. (11 lbs./sq.in.)
Front wheel, muddy or soft ground	0,7 atm. (10 lbs./sq.in.)
Rear wheel, muddy or soft ground	0,6 atm. (8,5 lbs./sq.in.)

ENGINE

Minimum diametral clearance between piston and cylinder	0,05 mm. (0,0019 in.)
Maximum whipping, crankshaft ends mounted on the crankcase	0,03 mm. (0,0012 in.)
Tightening torque of the cylinder head and cylinder lock nuts	2 to 2,5 m.Kgs. (14,5 to 18ft.-lbs.)

SPARE PARTS

To assure the perfect performance of all the different motorcycle elements, remember that replacements should always be made with the CAPPRA 125 MX model original parts.

When ordering spare parts, specify always:

- a).- Part item as described in the Catalogue.
- b).- Motorcycle number marked over the crankcase and frame.

OTHER IMPORTANT RECOMMENDATIONS

- Before a training or speed contest is made, the engine should be warmed up with a running-in at slow speed and high gear during an approximate period of 5 minutes, stopping the engine afterwards for another 5 to 10 minutes before starting.
- Every 2 or 3 speed contests change the clutch and gearbox oil.
- Every 10 or 12 speed contests, approximately, replacement of the piston for a new one is advisable and also every 20 speed contests for the piston and the cylinder jacket.
- On every contest the air filter condition should be checked and washed or replaced for a new one if the old appears to be full of dirtiness.

OTHER INTERESTING NUMERICAL DATA

WHEEL DRIVE

- Chain -

Type	Simple
Pitch	15,875 mm. (5/8")
Roller diameter	10,16 mm. (0,4")
Face between plates	6,48 mm. (0,255")
Gearbox projection pinion	11 teeth (optional, 12 teeth)
Toothed gear over rear hub	58 teeth (54 and 56 teeth optional)

WHEELS

Front tyre	Cross type 3 x 21"
Rear tyre	Cross type 4 x 18"
Front wheel spokes	36 of 3,5 x 226 mm.
Rear wheel spokes	36 of 4 x 156 mm.

CLUTCH

Number of driven discs 7
Number of intermediate discs . . 9
Clutch disc assembly deflection. 0,4 to 0,6 mm.

BEARING DIMENSIONS

Crankshaft	2 of 25 x 52 x 15	(no. 6205/C-3)
Main shaft, right side	1 of 15 x 35 x 11	{angular interface)
		(no. 7202)
Main shaft, left side	1 of 20 x 47 x 14	(no. 6204)
Secondary shaft, left side	1 of 15 x 35 x 11	(no. 6202)
Clutch toothed gear	1 of 17 x 40 x 17,5	{double row)
		(no. 3203)
Secondary shaft, right side	1 of 20 x 47 x 14	(no. 6204)
Front and rear wheel	4 of 17 x 40 x 12	(no. 6203)

TEETH OF SPEED GEARBOX

Fixed pinion 1st speed		13 teeth
Fixed pinion 2nd speed		15 teeth
Fixed pinion 3rd speed		17 teeth
Fixed pinion 4th speed		19 teeth
Free pinion 1st speed		24 teeth
Free pinion 2nd speed		22 teeth
Free pinion 3rd speed		20 teeth
Free pinion 4th speed		18 teeth

GENERAL FEATURES

Wheelbase	1380 mm.	(54,3 in.)
Overall length	2060 mm.	(81,1 in.)
Saddle height from the ground. .	810 mm.	(31,8 in.)
Ground clearance	270 mm.	(10,6 in.)
Handlebar width	900 mm.	(35,4 in.)
Tank capacity	7 litres	(1,8 USA gal. - 1,5 imp. gal.)
Dry motorcycle weight	90 Kgs.	(198 lbs.)