

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

MZ - MZ_ES_250_1959_Manual_de_intretinere

Foreword ; Index

Stamped Additions on the Title Page

Stamp 1 The supplied short drift pin is used for shock absorber adjustment. Operating Instructions for MZ Motorcycle ES 250 <http://www.mz-b.de/miraculis/aw/mz/text/es25b/es25b.html>

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Stamp 2

After the break-in period, the 105 main jet on the ES 250 must be replaced with a 100 jet.

Stamp 3

Tire pressures for ES tires 3.25x16 3.50x16 Solo front 1.4 atü 1.2 atü Solo rear 1.9 atü 1.9 atü with passenger front 1.4 atü 1.2 atü with passenger rear 2.6 atü 2.1 atü with sidecar front 1.4 atü 1.2 atü with sidecar rear 3.0 atü 2.7 atü Sidecar wheel 1.4 atü 1.4 atü These tire pressures are valid from 1.1.59

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To the friends of MZ motorcycles! Your MZ motorcycle ES 250 is simple to operate and undemanding in maintenance and care. Care and correct operation are necessary to keep the machine always ready for operation and reliable and to extend its service life. For your own benefit, therefore, familiarize yourself with these operating instructions immediately. Do not only read our information on correct operation, but also carefully observe our operating instructions for MZ motorcycle ES 250 <http://www.mz-b.de/miraculis/aw/mz/text/es25b/es25b.html>

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Regulations regarding operating materials, and carry out the few maintenance tasks that we deem necessary as we recommend them.

Pay particular attention to what we say about choosing the right spark plug, about correct carburetor and ignition settings, and about the exhaust system. If we warn you against conducting your own experiments, it is only in your interest.

The standard setting values have been tested in long series of tests as the most favorable for this engine.

Our authorized workshops are obliged to provide you with thorough information on all questions and practical advice in addition to these operating instructions. We recommend that you visit our authorized workshops not only to carry out the free inspections, but also whenever you do not have the time or inclination to carry out the necessary care and maintenance work yourself, or if a repair should become necessary. It goes without saying that only original spare parts are used for installation. Since the authorized workshop works carefully, quickly and rationally with special tools, this is reflected in an inexpensive calculation in the repair effort.

In your own interest, please note what we say under 5 - Maintenance and Care - about the use of original spare parts.

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Your MZ motorcycle guarantees full performance and constant operational readiness if you drive and maintain it according to our instructions. You will have a lot of fun motorcycling, and we wish you a safe journey at all times.

VEB Motorradwerk
Zschopau / Sa.

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Figure 1. ES 250 from the right

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Figure 2. ES 250 from the left 1 Technical Description 1.1 Technical Data

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E n g i n e

Working Method 2-Stroke Loop Scavenging Number of Cylinders 1 Stroke 65 mm

Bore 70 mm Displacement 250 ccm Compression Ratio 8 : 1 Power at n = 5100/min 14.25 HP Cooling Type Air (Wind)

Lubrication Mixture Lubrication 25 : 1 Carburetor BVF N 271-0 Air Filter Wet Air Filter Operating Instructions for MZ Motorcycle ES 250 <http://www.mz-b.de/miraculis/aw/mz/text/es25b/es25b.html>

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Ignition Battery Ignition Spark Plug Isolator M 14/225 Electrode Gap 0.6 mm Ignition Timing 3.5 mm BTDC with Fully Extended Centrifugal Weights Alternator G M 6/60 Average Fuel Consumption 3.8 l/100 km Clutch Multi-Disc Clutch in Oil Bath Transmission Ratio from Engine to Transmission 2.43 : 1 Shifting Foot Shifting Number of Gears 4 Transmission Ratio: solo with sidecar Total Ratio 1st Gear 15.12 : 1 17.90 : 1 2nd Gear 8.90 : 1 10.55 : 1 3rd Gear 6.71 : 1 7.95: 1 4th Gear 5.02 : 1 5.95 : 1 Transmission Ratio from Transmission to Rear Wheel 2.25 : 1 2.66 : 1 20 : 45 Teeth 18 : 48 Teeth Operating Instructions for MZ Motorcycle ES 250 <http://www.mz-b.de/miraculis/aw/mz/text/es25b/es25b.html>

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C h a s s i s

Type of Suspension Front: Strut with Oil Shock Absorber Type of Suspension Rear: Strut with Oil Shock Absorber, Adjustable Wheels Wire Spoke Wheels Rim Size 2.15 B x 16 rear, 1.85 B x 16 front Tires 3.50 x 16 rear, 3.25 x 16 front Tire Pressure Front 1.4 atü Rear 1.9 atü for Solo Ride Rear 2.1 atü for Passenger Ride (Tires 3.50 x 19) Rear 2.7 atü for Sidecar Operation Sidecar Wheel 1.4 atü Brakes Central Brakes 160 mm Diameter x 30 mm Wheelbase 1325 mm Length 2000 mm Width 790 mm Height 1000 mm Ground Clearance 150 mm Empty Weight 162 kg Operating Instructions for MZ Motorcycle ES 250 <http://www.mz-b.de/miraculis/aw/mz/text/es25b/es25b.html>

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Permissible Load Approximately 160 kg Permissible Total Weight 320 kg Maximum Speed 114 km/h Gradeability: 1st Gear Approximately 35% 2nd Gear Approximately 20% 3rd Gear Approximately 11% 4th Gear Approximately 4%

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Filling Quantities

Change Gearbox 900 ccm Engine Oil Fuel Tank ~ 15 l Fuel Mixture 25 : 1 Shock Absorbers, per Shock Absorber 80 ccm Shock Absorber Oil

1.2 Engine

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