

## MZ - MZ\_ETS\_250\_Trophy\_Sport\_Manual\_de\_intretinere

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Your great wish has come true, and we are pleased to welcome you as the owner of a new MZ-ETS. We have endeavored to provide you with a fast and reliable vehicle. Now, however, it also depends on you whether the ETS remains powerful and reliable for a long time. Please be sure to observe everything that is recommended below regarding consumables, correct operation, as well as maintenance and care. Heed it in your own interest, before you are shown by a workshop bill what you have done wrong!

Perhaps some old motorcycle hand is of the opinion that he knows this or that better - but you should rely on our recommendations. After all, motorcycles have been built in Zschopau for 40 years, and the knowledge and experience gained in the process should also be useful to you. Please also read the 'Warranty and Inspection Booklet' carefully. If any warranty claims are made, proof of proper completion of the mandatory inspections is a prerequisite.

And now 'Have a good trip'!

VEB Motorradwerk Zschopau

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Image 1. ETS 250 1. Technical Data 1.1. Engine

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Type ETS 250 Trophy-Sport

Working Method Two-stroke reverse scavenging Cooling Type Air (wind) Operating Instructions for the MZ Motorcycle

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Number of Cylinders 1 Stroke/Bore 65/69 Displacement 243 cm<sup>3</sup>

Compression Ratio 9.5 ... 10 : 1 Power 14.0 kW = 19.0 DIN-HP = 21 SAE-HP at 5200 ... 5500 RPM

Max. Torque 2.6 kpm at 4700 ... 5000 RPM Lubrication Mixture lubrication 33: 1 (two-stroke engine oil)

Connecting Rod Bearing (on crank pin and piston pin) caged needle bearing Crankshaft Main Bearing 2 bearings 6305 c  
003 f 1 bearing 6302

Lubrication of the crankshaft main bearings by transmission lubricant Fuel VK 88 (RON 88)

1.2. Carburetor

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Type BVF 28 N 1-3 (choke carburetor) Carburetor values: Passage in mm 28 Operating Instructions for the MZ

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Main Jet 117

Needle Jet 67

Part Load Needle No. C 5 with 5 notches

Needle Position from above 3 ... 4 \*) (4 for the break-in period)

Starting Jet 100 Idle Jet 40 Idle Air Screw 2 ... 3 turns open Air Filter Dry Air Filter (paper insert) in the intake silencer

\*) Always observe the spark plug appearance!

1.3. Electrical System

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Ignition Battery Ignition with centrifugal governor Ignition Timing 3.0 mm before TDC, with fully extended centrifugal

weights Breaker Contact Gap 0.3 mm Spark Plug Isolator M 14/260 Operating Instructions for the MZ Motorcycle ETS

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Electrode Gap 0.6 mm Generator DC 6 V, 60 W; briefly 90 W Charging Control Lamp (red) in the speedometer

Regulator RSC 60/6 under the left side panel Battery 6 V, 12 Ah (lead-acid accumulator - flat battery) Ignition Coil 6 V,

under the left fairing Headlight Light exit 160 mm Dimmer switch on the handlebar left Tail Light Light exit 95 mm

combined with brake light Contact on the rear brake lever Signal horn under the fuel tank High beam is activated by  
push button under the dimmer switch

1.4. Transmission

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Clutch on the left crankshaft stub - in oil bath (5 friction plates with cork parts)

Shifting Foot shift Operating Instructions for the MZ Motorcycle ETS 250 Trophy-Sport - Miraculis

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Number of Gears 4 Gear Ratio: 1st Gear 2.77 : 1 2nd Gear 1.80 : 1 3rd Gear 1.23 : 1 4th Gear 0.92 : 1 Neutral Indicator

electrical indicator light (green) in the speedometer

1.5. Power Transmission

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Ratio Motor-Transmission 2.43 : 1 by helical spur gears 28 : 68 teeth Ratio Transmission-Rear Wheel 2.14 : 1 x 21 : 45 teeth by roller chain 12.7x7.75x8.51 mm = 1/2 x 5/16 inch Operating Instructions for the MZ Motorcycle ETS 250 Trophy-Sport - Miraculis <http://www.mz-b.de/miraculis/aw/mz/text/ets25b/ets25b.html>

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## 1.6. Chassis

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Frame Single-tube frame, welded. Elastic engine mounting Rubber blocks

Type of Suspension front Telescopic fork with oil shock absorption, 145 mm travel rear Shock absorbers with oil shock absorption, 105 mm travel, spring hardness adjustable Wheels Wire spoke wheels with uncranked spokes Rim Size front 1.60 x 18 rear 2.15 B x 16 Tires front 2.75 - 18 rear 3.50 - 16 Tire Pressure (at overpressure)

front 1.5 atm rear 1.9 atm for solo ride rear 2.1 atm for pillion ride Operating Instructions for the MZ Motorcycle ETS 250 Trophy-Sport - Miraculis <http://www.mz-b.de/miraculis/aw/mz/text/ets25b/ets25b.html>

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Brakes Full hub brakes

## 1.7. Dimensions and Masses

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Wheelbase 1380 mm Length 2200 mm Width with/without mirrors 750/610 mm Height with/without mirrors 1060/1030 mm Ground Clearance, Loaded 160 mm Curb Weight 151 kg Load Capacity 169 kg Permissible Total Mass 320 kg

## 1.8. Filling Quantities

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Transmission 750 cm<sup>3</sup> Transmission Oil GL 60 (alloyed) for summer and winter

Fuel Tank approximately 22 l Fuel Mixture 33 : 1 Operating Instructions for the MZ Motorcycle ETS 250 Trophy-Sport - Miraculis <http://www.mz-b.de/miraculis/aw/mz/text/ets25b/ets25b.html>

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