

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

MZ - MZ_BK_17PS_Manual_de_intretinere

Index

To the friends of MZ motorcycles!

Your MZ BK 350 motorcycle is simple to operate and undemanding in terms of maintenance and care. Proper care and correct operation are necessary to keep the machine ready for operation and reliable at all times and to extend its service life. Therefore, familiarize yourself with these operating instructions immediately for your own benefit. Not only read our instructions on correct operation, but also carefully observe our instructions regarding consumables, and carry out the few maintenance tasks that we consider necessary as we recommend. Pay particular attention to what we say about the choice of the correct spark plug, correct carburetor and ignition settings, and the exhaust system. If we warn you against carrying out your own experiments, this 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 beyond these operating instructions and to give practical advice. 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 maintenance and care 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 efficiently with special tools, this is reflected in a cost-effective calculation of the repair costs.

Please note in your own interest what we say about the use of original spare parts.

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

VEB Motorradwerk Zschopau/Sa. Operating instructions for the MZ motorcycle BK 350
<http://www.mz-b.de/miraculis/aw/mz/text/bk17b/bk17b.html>
1 of 111 02.11.2008 23:14

TABLE OF CONTENTS

- 1 Technical Data
 - 1.1 Engine
 - 1.2 Clutch
 - 1.3 Gearbox
 - 1.4 Brakes
 - 1.5 Wheels
 - 1.6 Suspension
 - 1.7 Steering
 - 1.8 Electrical System
 - 1.9 Frame

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

- 1.10 Chassis
- 1.11 Dimensions and Weights
- 1.12 Filling Capacities
- 1.13 Engine Characteristics
- 2 Description
 - 2.1 Engine
 - 2.1.1 Crankshaft
 - 2.1.2 Crankcase
 - 2.1.3 Cylinder and Cylinder Head
 - 2.1.4 Piston and Piston Pin
 - 2.1.5 Alternator with Flat Regulator and Breaker
 - 2.1.6 Ignition Coils
 - 2.1.7 Carburetor, Air Filter and Intake Silencer
 - 2.1.8 Clutch
 - 2.2 Gearbox
 - 2.2.1 Housing and Intermediate Flange
 - 2.2.2 Wheels and Shafts
 - 2.2.3 Shift Automaton and Cam Roller
 - 2.2.4 Kick Starter
 - 2.2.5 Electrical Neutral Indicator Switch
 - 2.2.6 Speedometer Drive Operating instructions for the MZ motorcycle BK 350
<http://www.mz-b.de/miraculis/aw/mz/text/bk17b/bk17b.html>
2 of 111 02.11.2008 23:14
 - 2.3 Drive
 - 2.3.1 Front Rubber Joint
 - 2.3.2 Cardan Shaft with Universal Joint
 - 2.3.3 Rear Wheel Drive Housing with Pinion and Crown Wheel
 - 2.4 Chassis
 - 2.4.1 Frame
 - 2.4.2 Telescopic Fork
 - 2.4.3 Rear Wheel Suspension
 - 2.4.4 Brakes
 - 2.4.5 Front and Rear Wheel Axles
 - 2.4.6 Saddle, Kickstand, Footrests, Fuel Tank
 - 2.4.7 Electrical System
 - 2.4.8 Strut for Sidecar Operation
 - 2.4.9 Steering Lock
 - 2.5 Tools
 - 2.5.1 Attaching a Sidecar
- 3 Operating Instructions
 - 3.1 Arrangement and Purpose of the Operating Levers
 - 3.1.1 Fuel Tap
 - 3.1.2 Starting Slide
 - 3.1.3 Throttle Twist Grip
 - 3.1.4 Ignition and Light Switch

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

- 3.1.5 Dimmer Switch and Signal Button
- 3.1.6 Clutch Lever
- 3.1.7 Kick Starter
- 3.1.8 Foot Shift Lever
- 3.1.9 Foot Brake Lever and Footrests
- 3.1.10 Hand Brake Lever
- 3.1.11 Kickstand
- 3.1.12 Thigh Pad Adjustment
- 3.2 Correct Operation
- 3.2.1 Starting (Cold Start)
- 3.2.2 Warm Start
- 3.2.3 Starting Without or With a Discharged Battery
- 3.2.4 Starting and Upshifting
- 3.2.5 Downshifting
- 3.2.6 Stopping Operating instructions for the MZ motorcycle BK 350
<http://www.mz-b.de/miraculis/aw/mz/text/bk17b/bk17b.html>
3 of 111 02.11.2008 23:14
- 3.2.7 Break-in Period
- 3.2.8 Wheel Removal and Installation
- 3.2.9 Tire Change
- 4 Maintenance Instructions
- 4.1 What Needs to Be Done?
- 4.1.1 Before the First Ride
- 4.1.2 Daily
- 4.1.3 After the First 500 km
- 4.1.4 After Every 1000 km
- 4.1.5 After Every 2000 km
- 4.1.6 After Every 5000 km
- 4.1.7 After Every 10000 km
- 4.2 Performing Maintenance Work
- 4.2.1 Lubrication
- 4.2.2 Air Filter Cleaning
- 4.2.3 Spark Plug Maintenance
- 4.2.4 Fuel Tap Cleaning
- 4.2.5 Checking, Cleaning and Adjusting the Carburetor
- 4.2.6 Checking the Electrical System
- 4.2.6.1 Testing Alternator and Regulator
- 4.2.6.2 Breaker Maintenance
- 4.2.6.3 Checking Ignition Timing
- 4.2.6.4 General Maintenance Work on the Electrical System
- 4.2.6.5 Battery Maintenance
- 4.2.7 Checking and Removing Deposits in the Engine
- 4.2.8 Cleaning the Exhaust System
- 4.3 Troubleshooting Guide
- 4.3.1 Engine Will Not Start

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

4.3.2 Fuel Runs Out of the Drain Holes in the Clutch Housing After Tickling, But the Engine Will Not Start

4.3.3 The Ignition is Switched On, But the Charging Control and Neutral Indicator Lamp Do Not Light Up

4.3.4 Ignition Switched On, But There is No Spark at the Spark Plug or Only a Very Weak Spark

4.3.5 A Strong Spark Jumps Over at the Spark Plug, But the Engine Will Not Start

4.3.6 Engine Starts, But Only Fires on the Left Cylinder

4.3.7 Engine Will Not Start in Very Cold Weather or Stalls After Starting

4.3.8 Engine Cannot Be Adjusted to Idle Speed

4.3.9 Charging Control Lamp Does Not Extinguish After Starting the Engine

4.3.10 Battery is Not Charging Sufficiently Operating instructions for the MZ motorcycle BK 350

<http://www.mz-b.de/miraculis/aw/mz/text/bk17b/bk17b.html>

4 of 111 02.11.2008 23:14

4.3.11 Engine Misfires in the Upper Speed Range

5 Repair Instructions

5.1.1 Engine Removal

5.1.2 Blocking the Gearbox

5.1.3 Replacing Clutch Disc or Clutch Pressure Springs

5.1.4 Replacing Speedometer Drive

5.1.5 Removing the Alternator

5.1.6 Setting the Ignition

5.1.7 Removing the Cylinders and Pistons for Decarbonization

5.2 Drive Group

5.2.1 Removing the Rear Wheel Drive

5.3 Chassis Group

5.3.1 Replacing Bushings in the Telescopic Fork

5.3.2 Dismantling Shock Absorbers

5.3.3 Replacing Bushings in the Rear Wheel Suspension

5.3.4 Adjusting Steering Bearings

5.3.5 Adjusting Headlight

1 Technical Data

1.1 Engine

Next Item ; Index

Working Method Two-stroke Stroke 65 mm Operating instructions for the MZ motorcycle BK 350

<http://www.mz-b.de/miraculis/aw/mz/text/bk17b/bk17b.html>

5 of 111 02.11.2008 23:14

Bore 58 mm

Number and Arrangement of Cylinders Two-cylinder boxer engine

Displacement $2 \times 171.7 \text{ cm}^3 = 343.4 \text{ cm}^3$

Compression Ratio 7.1

Compression Space 28.5 cm³

Power at 5000 rpm 17 HP

Maximum Torque at 3000 rpm 2.7 kgm

Cooling Air (wind)

Timing

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Intake with peak 120 degrees crank angle

Intake without peak 104 degrees crank angle

Transfer 116 degrees crank angle

Exhaust 136 degrees crank angle

Carburetor

Number 2

Make IFA BVF NB 22-1

Setting

Intake cross-section 22 mm

Main jet 95 Operating instructions for the MZ motorcycle BK 350

<http://www.mz-b.de/miraculis/aw/mz/text/bk17b/bk17b.html>

6 of 111 02.11.2008 23:14

Idle jet 30

Needle jet 67

Needle position III

Idle air screw position 2 ... 2½ turns open

Throttle slide cutaway 14

Air filter 120 mm diameter

Lubrication Mixture lubrication (oil : fuel ratio 1 : 25)

Ignition

Type Battery ignition

Spark plug Isolator M 14-225

Thread length 10 mm

Electrode gap 0.6 mm

Breaker contact gap 0.4 mm

Ignition timing adjustment automatic via centrifugal weights

Ignition advance 3 mm before TDC with fully open centrifugal weights

Ignition coil

Number 2

Piston

Oversizes for cylinder Ø 58; 58.25; 58.50; 58.75; 59 mm Operating instructions for the MZ motorcycle BK 350

<http://www.mz-b.de/miraculis/aw/mz/text/bk17b/bk17b.html>

7 of 111 02.11.2008 23:14

Piston rings 3 per piston

Type Compression rings

Crankshaft bearing

Number 2

Type front WJL 25, rear 6305

Connecting rod bearing double roller, without cage

1.2 Clutch

Next Item ; Index

Type Single-plate dry clutch

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

Lining vulcanized onto driven plate
Number of pressure springs 6

1.3 Gearbox

Next Item ; Index

Design bolted to engine, dog clutch, 3rd and 4th gear helical
Number of Gears 4 Operating instructions for the MZ motorcycle BK 350
<http://www.mz-b.de/miraculis/aw/mz/text/bk17b/bk17b.html>
8 of 111 02.11.2008 23:14
Neutral indicator electric indicator lamp in headlight
Shifting via foot shift
Gearbox Ratios Maximum Speed
1st gear 1 : 3.84 33 km/h
2nd gear 1 : 2.10 61 km/h
3rd gear 1 : 1.38 96 km/h
4th gear 1 : 1.07 115 km/h
Kick starter ratio 1 : 3.84
Power transmission to rear wheel rubber joint-cardan shaft with universal joint
Ratio in rear wheel drive 1 : 4.67 Solo operation
1 : 5.4 Sidecar operation

1.4 Brakes

Next Item ; Index

Foot brake adjustable stop acts on rear wheel
Hand brake Operating instructions for the MZ motorcycle BK 350
<http://www.mz-b.de/miraculis/aw/mz/text/bk17b/bk17b.html>
9 of 111 02.11.2008 23:14
acts on front wheel
Brake drum Ø 200 mm
Light alloy hub
Brake lining
Width 25 mm
Material Vulcanized onto brake shoes

1.5 Wheels

Next Item ; Index

Type Spoked wheels
Attachment Plug-in axle
Rim size Drop center rims 2.5 x 19

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

Tires

Dimension 3.25 - 19

1.6 Suspension

Next Item ; Index

Front wheel suspension Telescopic fork Operating instructions for the MZ motorcycle BK 350

<http://www.mz-b.de/miraculis/aw/mz/text/bk17b/bk17b.html>

10 of 111 02.11.2008 23: