

BL Motorcycles Ltd

Professional Workshop Manual - English Translation

MZ - MZ_500_Saxon_1995_Manual_de_intretinere

Index

REPAIR MANUAL

CHASSIS

SAXON 500 Repair Manual for MZ Motorcycles Saxon 500 Chassis
http://www.mz-b.de/miraculis/aw/mz/text/mz50r1/mz50_r1.html
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FUN

TOUR

COUNTRY

SILVERSTAR

Motorrad- und Zweiradwerk GmbH

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Notes

This repair manual is intended for use in workshops with qualified personnel.

Repair and maintenance work may only be carried out by persons who have a basic understanding of the mechanical concepts and procedures for vehicle repair technology. Carried out repairs and maintenance work must always result in unrestricted operational and traffic safety of the repaired vehicle. All relevant legal regulations must be observed when working on the vehicles.

The repair manual covers work on the chassis of the MuZ vehicles listed.

For repairs to the engine and the part of the electrical system connected to the engine, please refer to the 'REPAIR MANUAL ROTAX 348 engine with the supplements for the MuZ 504 engine'. Repair Manual for MZ Motorcycles Saxon 500 Chassis http://www.mz-b.de/miraculis/aw/mz/text/mz50r1/mz50_r1.html

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Repair instructions for the Silverstar 500 sidecar and Voyager 500 that are not listed in the text of the repair manual can be found in the appendix to the repair manual. Motorrad- und Zweiradwerk GmbH Customer Service Postfach 70 D-09401 ZSCHOPAU-HOHNDORF July 1995 Table of Contents

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1. Technical Data 1.1. Engine and Power Transmission

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Engine type Rotax 504 E Working method 4-stroke SOHC, 4 valves Displacement 494 cm³ Power MZ 500 NR/VR: 20 kW ECE (27 HP) at 6500 rpm MZ 500 NRX/VRX: 25 kW ECE (34 HP) at 7200 rpm Max. Torque NR/VR: 32 Nm at 4500 rpm NRX/VRX/VRCX: 35 Nm at 4000 rpm Lubrication Dry sump Lubrication for engine and transmission Oil delivery double trochoid pump Gearbox Number of gears 5 Neutral gear indicator in the speedometer, combined with oil level indicator Lubrication Pump splash lubrication Power transmission to the rear wheel Repair Manual for MZ Motorcycles Saxon 500 Chassis http://www.mz-b.de/miraculis/aw/mz/text/mz50r1/mz50_r1.html

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Roller chain 5/8" x 1/4", 102 rollers Transmission Tour Fun Country Silver Star Silver St. Sidecar Voyager 2.11 2.11 2.38 2.24 2.53 2.53 Number of teeth 18/38 18/38 16/38 17/38 15/38 15/38

1.2. Carburetor

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Type Dell'orto PHF 34 GS Bing 64/33/302 (/306 for Switzerland) Intake manifold diameter 34 mm 33 mm Main jet 120 125

Needle jet AB 1 265 2.66

Throttle needle K28 TN251 Marking 1 ring Position from above 3 3 Starter jet 60 66 Idle jet 45 45 (40 for Switzerland) Idle correction jet 100 Idle mixture screw Turns open 1 1/4...2 1/4 about 3/4 (1/4...3/4 for Switzerland *) Repair Manual for MZ Motorcycles Saxon 500 Chassis http://www.mz-b.de/miraculis/aw/mz/text/mz50r1/mz50_r1.html

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Idle speed 900...1100 rpm 1100 rpm (1100 rpm for Switzerland) adjusted with throttle stop screw Adjustment screw for idle speed

CO content in exhaust gas 2.5...4 Vol-% 2...3 Vol-% (0.3 Vol-% for Switzerland *)

* Idle mixture screw sealed with plastic plug

1.3. Chassis

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Front suspension Telescopic fork with hydraulic damping Spring travel Tour Fun Country Silver Star Silver St. Sidecar Voyager *

in mm 185 185 185 165 165 165 * Models with fork stabilizer

Rear suspension Tour, Fun, Silver Star, Silver St. Sidecar, Voyager: Shock absorbers with hydraulic damping Country: Shock absorbers with gas pressure shock absorbers Spring travel Tour Fun Country Silver Star Silver St. Sidecar Voyager in mm 135 135 135 105 105 105 Wheels Wire spoke wheels or cast wheels Repair Manual for MZ Motorcycles Saxon 500 Chassis http://www.mz-b.de/miraculis/aw/mz/text/mz50r1/mz50_r1.html

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Rim size Wire spoke wheel Cast wheel front 18 x 1.85 (19 x 1.85 for Country) 18 x 1.85 rear 16 x 2.15 (16 x 2.50 for

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Country,) (18 x 2.15 for Silver Star) 16 x 2.50

Tires Tour, Fun: front 90/90-18 51 S with inner tube rear 110/80-16 58 S with inner tube Silver Star: rear 110/80-16 58 S with inner tube Country: front 90/100-19 55 P with inner tube rear 120/90-16 63 P with inner tube Tire pressure Tour Fun Country Silver Star Silver St. Sidecar Voyager front (kPa) 170 170 170 210 210 170
(bar) 1.7 1.7 1.7 2.1 2.1 1.7 rear Solo 190 190 180 210 210 180

1.9 1.9 1.8 2.1 2.1 1.8 2 persons 220 190 2.2 1.9 rear at permissible total mass 250 250 250 250 250 250

2.5 2.5 2.5 2.5 2.5 Number of seats Tour Fun Country Silver Star Silver St. Sidecar Voyager

2 2 2 2 3 3 Brakes front Disc brake hydraulically operated Repair Manual for MZ Motorcycles Saxon 500 Chassis
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rear Simplex internal shoe brake

1.4. Electrical System

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Nominal voltage 12V

Ignition contactless capacitor ignition, fully electronic, with ignition advance Ignition timing not adjustable 3° before top dead center at 1500 rpm Advance continuously from 2000 rpm to 29° before top dead center at 6000 rpm Spark plug NKG D8 E-A or Champion 12 A 6 YC Electrode gap 0.7 mm Generator 3-phase alternator 12 V, 190 W Battery 12 V/ 14 Ah Bulbs Headlight H 4, 12 V 60/55 W, low beam asymmetrical Parking light 12 V/5 W, socket W 2.1x9.5 d, (glass socket lamp) (Silver Star: 12 V/4 W, automotive lamp T4W, bayonet lock) Rear light 12 V/5 W

Two-filament lamp p 25-2-12 V, 21/5 W

Brake light 12 V/21 W Turn signal 12 V/10 W- Din 72601-R 19/10 Indicator lights 12 V/1.2 W, socket W 2x4.6 d, glass socket lamp Repair Manual for MZ Motorcycles Saxon 500 Chassis

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