

MINIBIKE 2,5

SERVICE MANUAL FOR USE AND MAINTENANCE OF MINIBIKE

Before starting the operation of your Minibike, read thoroughly these directions.

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INTRODUCTION

Minibike 2,5 is intended for a drive on closed tracks with even, smooth, and dust-free surface. Both grown-ups and children can ride on the Minibike. Children only under the supervision of a grown-up and responsible person. If the terms of a track are fulfilled, the Minibikes can be used for races.

Minibike is equipped with a single-cylinder, two-stroke, petrol combustion engine, with a front and rear disc brake, the rear one being controlled by a lever on the left side of handlebars and the front one by a lever on the right side of handlebars, when seeing in the ride direction. The fuel quantity controlled by a handle on the right side of handlebars. The engine is fitted with an air filter and a exhaust silencer. The driving moment transmission from engine to the driven rear wheel is carried out by a chain drive the ratio of which can be changed to a small extent by a sprocket wheel exchange on the rear wheel.

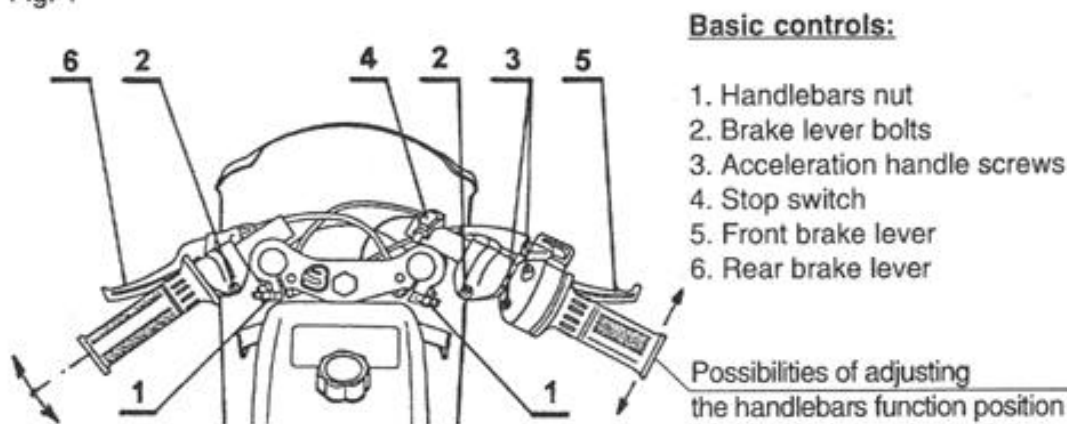
BASIC TECHNICAL DATA

ENGINE:	TWO-STROKE	AIR COOLED	
	WORKING VOLUME	39,9 ccm	
	POWER OUTPUT	2,5 kW at 8 700 rpm	
	MAXIMUM SPEED	11 000 rpm	
	CARBURETOR	DELL'ORTO	
	IGNITION	ELECTRONIC	
	STARTING	MANUAL	
	CLUTCH	CENTRIFUGAL, FRICTION	
FRAME:	WELDED	OF HIGH - STRENGTH STEEL TUBES	
LINING:	THREE PARTED	
BRAKES:	FRONT WHEEL	MECHANICAL DISC BRAKES	
	REAR WHEEL	MECHANICAL DISC BRAKES	
WHEELS:	FRONT WHEEL	OF LIGHT ALLOY 4" - 51	
	REAR WHEEL	OF LIGHT ALLOY 4" - 95	
TIRES:	FRONT	3,00 - 4" WITH PATTERN	
	REAR	3,00 - 4" WITH PATTERN	
TUBES:	FRONT + REAR	3,00 - 4"	
FUEL:	PETROL	96 OCTANE + SYNTHETIC OIL	
	MIXING RATIO	50:1	
	TANK CAPACITY	1 LITRE	
HIGHEST VELOCITY IN ACCORDANCE			
WITH THE INSTALLED RATIO:			up to 28 mph (45 km/h)
UNLOADED WEIGHT			37,5 lb (17 kg)
CARRYING CAPACITY			242 lb (110 kg)
BASIC DIMENSIONS:			
	LENGTH	37 ¹³ / ₃₂ " (950 mm)	
	WIDTH	19 ¹¹ / ₁₆ " (500 mm)	
	HEIGHT	20 ⁵⁵ / ₆₄ " (530 mm)	

UNPACKING AND BASIC CONTROLS:

The Minibike is packed and delivered with folded handlebars and levers mounted on them. After unpacking, set up the handlebars in such a function position that will suit you best. However at maximum handlebars turning, the brake levers must not bump into the lining. After setting - up the handlebars, tighten the nuts 1 on handlebars sleeves, the brake levers 2, and acceleration handle 3 acc. to Fig. 1. At tightening, don't use an excessive force in order not to damage the parts or threads, or to distort the tubes, and the like. Verify the smooth and perfect movement of operating bowden cables of acceleration and both brakes.

Fig. 1



SAFETY

Minibike is not allowed to be used on public roads, as it doesn't comply with valid Safety Standards. It is forbidden to ride even where the traffic of larger vehicles is possible. Minibike is intended for a drive on closed tracks with even smooth and dust-free surface. For your own and other people's safety keep all advices and recommendations, how to use your minibike in a correct and thoughtful way. serious injuries can result from unsafe operation of this and other vehicles. You have to minimize the risk by wearing Safety Equipment e. g.: crash helmet, goggles, gloves, guards of elbow and knees, firm footwear.

BEFORE STARTING

Regarding the engine life time it is important the minibike to be well run-in as this fact will manifest itself by the power output and life of engine. The minibike is considered to be run-in after consuming five full fuel tanks by-riding. For running-in we use petrol with admixture of synthetic oil, i.e. ratio 30:1. After running-in the petrol octane N° 96 and synthetic oil are mixed in ratio 50:1. Mix up thoroughly the mixture of fuel and oil before pouring it into the tank. During running-in don't increase the engine speed to maximum and don't allow the overheating. Check the tire inflation which should correspond to the driver's weight. The pressure in one wheel has not to exceed 2,5 bar in the front and rear wheel.

STARTING THE ENGINE

To be done only on the starting stand – Fig. 2. After opening the tank filling hole, fill the tank with fuel and close it by screwing-in cap. Open the petrol supply cock by turning the small lever into position "ON", Fig. 3. Set the choke lever into position "C", Fig. 3. Without turning the accelerating handle, pull gently twice the starting wire and by next quick pull start the engine. It is not allowed to pull the starting wire up to full winding off. After a short engine run, put the choke lever back to position "A" and let the engine run about 1 min. Let the Minibike on the larking stand and, if need be, adjust the no-load speed to such a rate lest coupling should take along the no-load speed to such a rate lest coupling should take along the rear wheel. For adjustment use the adjustment screw N° 4 on the carburetor, Fig. 3.

Fig. 2

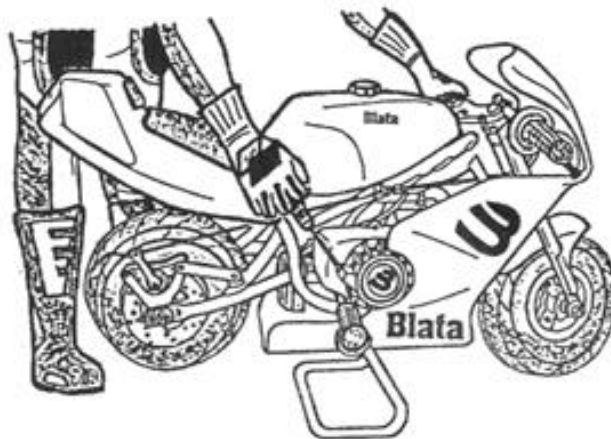
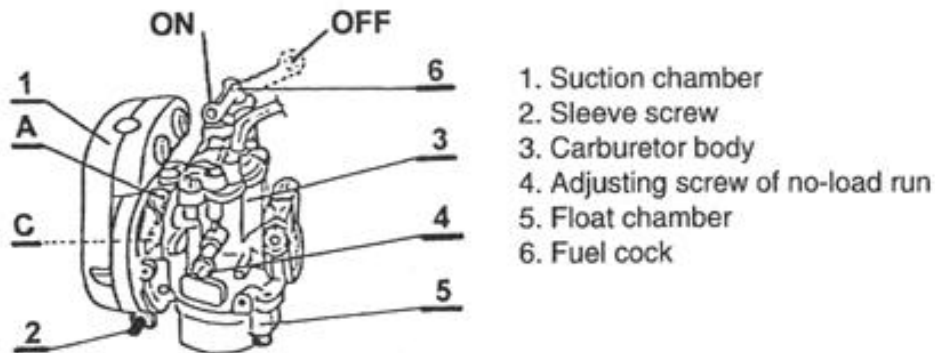


Fig. 3

CARBURETOR



RIDE

After mounting the Minibike and slow turning the acceleration handle, you are starting your ride. Before braking, turn back the acceleration handle and depress slightly the front brake lever and then the rear brake lever. Beware of the wheels not to get them in skid.

The Minibike engine will be switched off by pushing the red push-button of the stop switch on handlebars. After the first half-hour ride it is necessary to check the tightening of screws and nuts, especially of the engine. Check also the brake setting.

PERIODIC MAINTENANCE

The periodic maintenance is the best way how to contribute to the machine life prolongation, ride safety, and cost decrease. In addition, you will be spared many worries, time and troubles.

A – Before every ride:

Before every ride check the wires and braking efficiency, lubricating and chain drive setting. The chain sag should be 0,196" (5 mm).

After every use clean the Minibike carefully and keep it clean. Don't use the cleaning agents with deleterious effects.

B – Every time after 10 hours' operation:

Check the tightening of all screws and nuts. Tighten carefully not to damage the parts, all over where it is desirable.

Air filter – clean carefully the air filter and lubricate it with engine oil for catching the dust.

Check the clutch pads state.

C – Every time after 50 hours' ride:

Clean carefully the carburetor float chamber.

CHAIN SETTING:

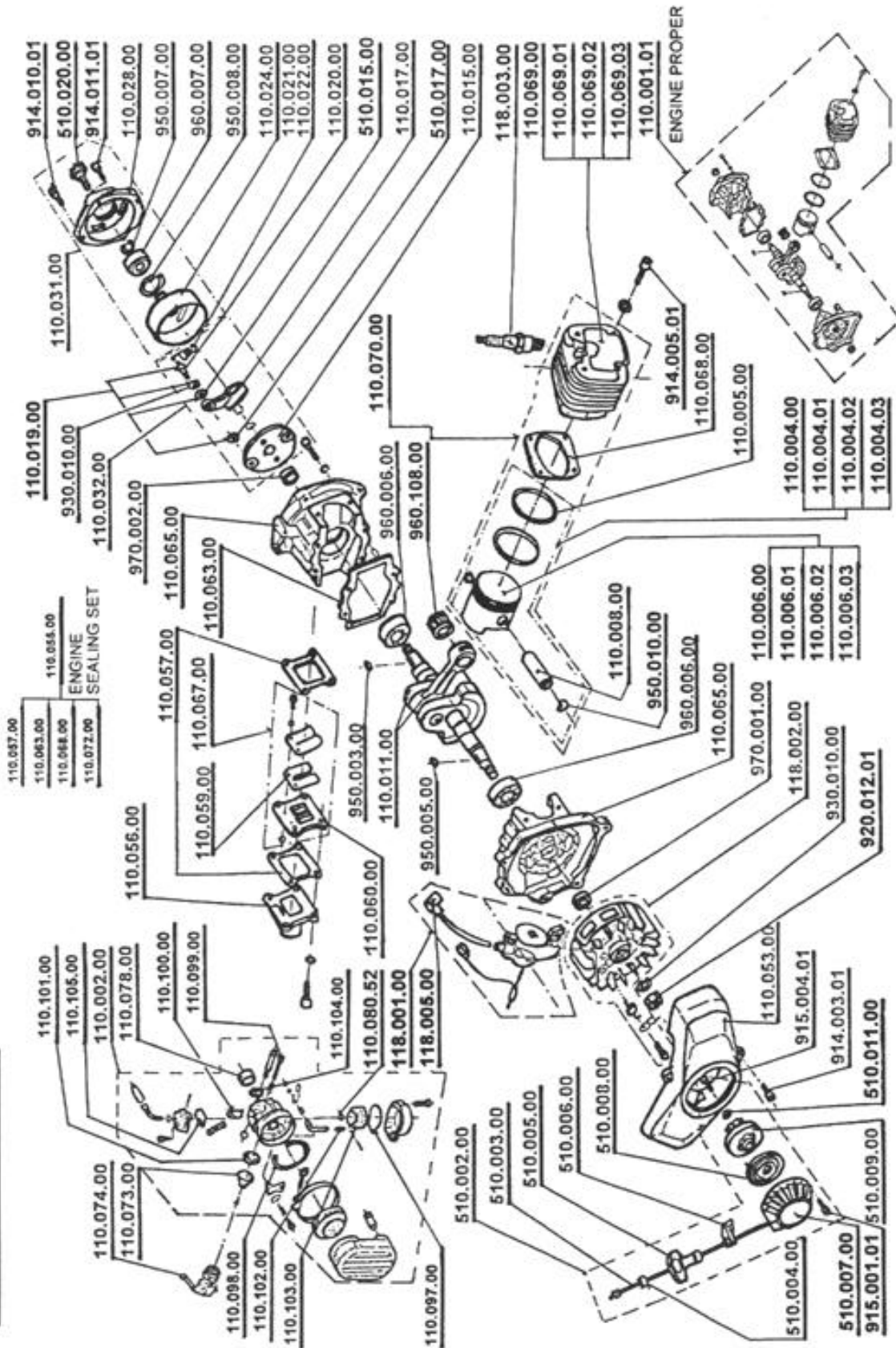
When setting up the chain attachment of the rear brake reaction catcher and the rear wheel axle nut 920.011.01. Then tighten uniformly the chain tighteners on both sides of rear wheel by means of nuts 920.009.01, Fig. 5. When the chain is set-up to adequate sag 0,196" (5 mm), tighten the nut 920.011.01 of the rear wheel.

If there is need to replace the chain, check also both chain wheels. In case they are worn-out, they must be replaced by new ones at the same time with the chain.

REPLACEMENT OF THE CENTRIFUGAL FRICTION CLUTCH PADS:

After unscrewing two side screws remove the front lining. Unscrew the fastening screws and remove the chain cover. Release the chain and dismantle it. Unscrew four screws keeping the cover with drum of the clutch. Release the engine brace on the frame, shift it out, and remove the whole cover with clutch drum. By means of pliers draw off the clutch springs and loosen the pins holding the clutch levers. At the new clutch levers put the clutch pins and at assembly proceed in a reverse sequence and, in the end, adjust the chain sag.

110.001.00 ENGINE COMPLETE



Blata[®] MINIBIKE

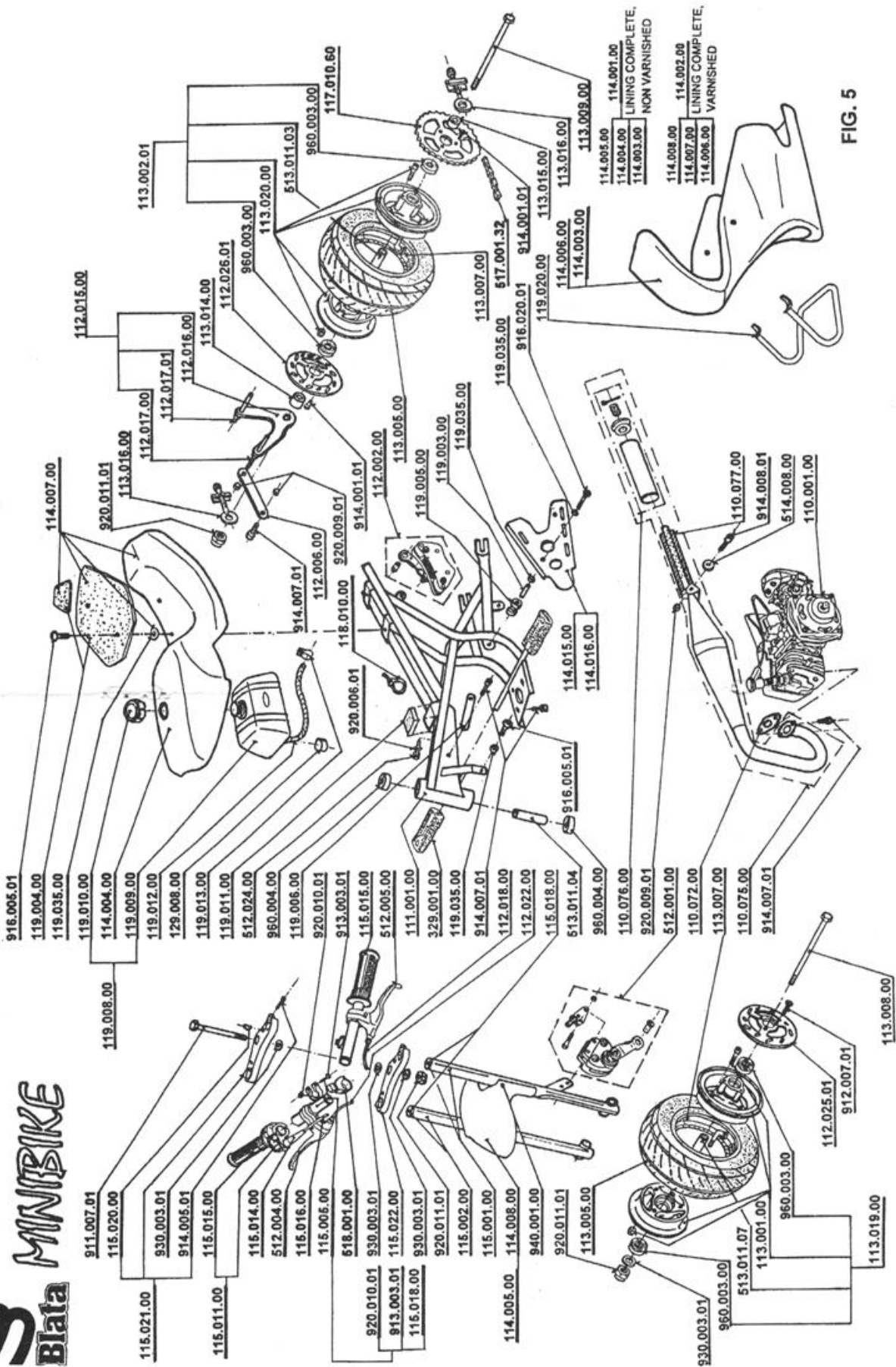


FIG. 5

MINIBIKE – 2,5

110.000.00	MINIBIKE 2,5	510.003.00	STARTER ROPE
	ENGINE	510.004.00	HOLDER
110.001.00	ENGINE COMPLETE	510.005.00	HOLDER
110.001.01	ENGINE PROPER	510.006.00	GUIDE BUCH
110.002.00	CARBURETOR SHA 1412L	510.007.00	STARTER CASE
110.004.00	PISTON COMPLETE - A	510.008.00	STARTER SPRING
110.004.01	PISTON COMPLETE - B	510.009.00	RATCHET WHEEL
110.004.02	PISTON COMPLETE - C	510.011.00	WASHER 4,5 x 16 x 1,5
110.004.03	PISTON COMPLETE - D	510.015.00	WASHER 8,1 x 16 x 1
110.005.00	PISTON RING	510.017.00	WASHER 6,1 x 16 x 1,5
110.006.00	PISTON - A	510.020.00	PINION
110.006.01	PISTON - B	960.108.00	CONNECTING ROD BEARING
110.006.02	PISTON - C		FRAME
110.006.03	PISTON - D	111.001.00	FRAME, VARNISHED
110.008.00	WRIST - PIN		BRAKES
110.011.00	CRANK BALANCED	112.002.00	BRAKE COMPLETE
110.015.00	CLUTCH DISC	112.003.00	BRAKE CASE - 1 PAIR
110.017.00	CLUTCH LEVER - 2 PCS	112.004.00	LIFTER, RIGHT
110.019.00	CLUTCH SCREW COMPLETE	112.005.00	REAR PAD - 2 PCS
110.020.00	CLUTCH SCREW SCREW	112.006.00	BRAKE REACTION LIFTER
110.021.00	CLUTCH SPRING - SERIE 1,25 - 2 PCS	112.009.00	SPRING, LEFT
110.022.00	CLUTCH SPRING - RACING 1,4-2 PCS	112.015.00	BRAKE HOLDER COMPLETE
110.024.00	CLUTCH DRUM	112.016.00	BRAKE HOLDER
110.028.00	CLUTCH CASE	112.017.00	LEADING PINS
110.031.00	CLUTCH CASE COMPLETE	112.017.01	LEADING PINS
110.032.00	CLUTCH COMPLETE	112.018.00	BOWDEN CABLE - REAR BRAKE
110.053.00	ENGINE COVERING	112.022.00	BOWDEN CABLE - FRONT BRAKE
110.055.00	ENGINE SEALING SET	112.025.01	FRONT BRAKE DISC 2,5 x 119
110.056.00	FLANGE	112.026.01	REAR BRAKE DISC 3,0 x 119
110.057.00	DIAPHRAGM SEALING - 2 PCS	112.030.00	ADJUSTING SCREW
110.059.00	DIAPHRAGM	512.001.00	BRAKE COMPLETE
110.060.00	DIAPHRAGM WASHER	512.004.00	HANDLE BAR LEVER, RIGHT
110.063.00	SEALING ENGINE BLOCK	512.005.00	HANDLE BAR LEVER, LEFT
110.065.00	ENGINE BLOCK	512.008.00	LIFTER, LEFT
110.067.00	DIAPHRAGM COMPLETE	512.011.00	BRAKE CASE - 1 PAIR
110.068.00	SEALING	512.012.00	DISC BRAKE PADS - 2 PCS
110.069.00	CYLINDER - A	512.013.00	LIFTER LEVER
110.069.01	CYLINDER - B	512.014.00	SPRING RIGHT
110.069.02	CYLINDER - C	512.016.50	TERM. CLAMP BOWDEN
110.069.03	CYLINDER - D	512.017.00	FRONT BRAKE HOLDER
110.070.00	CYLINDER + PISTON COMPLETE	512.019.00	WASHER
110.072.00	EXHAUST SEALING	512.024.00	ADJUSTING SCREW
110.073.00	PLASTIC CONNECT, FUEL COCK	512.025.00	BOWDEN HOLDER
110.074.00	FUEL COCK		WHEELS
110.075.00	EXHAUST COMPLETE	113.001.00	DISC 4" - 51
110.076.00	EXHAUST SILENCER COMPLETE	113.002.01	WHEEL COMP. 4" - 95 WITHOUT TIRE
110.077.00	SILENCER MASS	113.005.00	TIRE WITH PATTERN 3,00 - 4"
110.078.00	RING	113.007.00	TUBE 3,00 - 4"
110.080.52	JET 52	113.008.00	AXLE OF WHEEL
110.097.00	FLOAT CHAMBER SEALING	113.009.00	AXLE OF WHEEL
110.098.00	CARBURETOR SEALING 1	113.014.00	DISTANCE SLEEVE, 18,5 mm
110.099.00	ADJUSTING SCREW	113.015.00	DISTANCE SLEEVE, 14,5 mm
110.100.00	TROTTLE VALVE	113.016.00	CHAIN ADJUSTER, COMPLETE
110.101.00	CARBURETOR FILTER	113.019.00	WHEEL COMP. 4" - 51 WITHOUT TIRE
110.102.00	NEEDLE VALVE	113.020.00	DISC 4" - 95
110.103.00	FLOAT		
110.104.00	CARBURETOR SEALING 2	513.011.03	DISTANCE SLEEVE L=139,3
110.105.00	TROTTLE VALVE SEALING	513.011.04	DISTANCE SLEEVE L=84,5
110.185.00	JET SET	513.011.07	DISTANCE SLEEVE L=85,3
510.002.00	STARTER COMPLETE		

LINING
 114.001.00 LINING COMPLETE, NON VARNISHED
 114.002.00 LINING COMPLETE, VARNISHED
 114.003.00 FRONT LINING, NON VARNISHED
 114.004.00 SADDLE, NON VARNISHED
 114.005.00 FRONT FENDER, NON VARNISHED
 114.006.00 FRONT LINING, VARNISHED
 114.007.00 SADDLE VARNISHED
 114.008.00 FRONT FENDER, VARNISHED
 114.015.00 CHAIN COVER
 114.016.00 CHAIN COVER, POLISHED
 514.008.00 RUBBER WASHER 5 x 5,5 x 23,5

CONTROL
 115.001.00 FORK LEFT WITH BRAKE HOLDER
 115.002.00 FORK RIGHT
 115.005.00 HANDLE BAR TUBE
 115.011.00 THROTTLE GAS
 115.014.00 BOWDEN DUST GUARD
 115.015.00 HAND GRIPS - 2 PCS
 115.016.00 GAS BOWDEN CABLE
 115.018.00 CAP
 115.020.00 NUT
 115.021.00 HOLDER ABOVE - COMPLETE
 115.022.00 HOLDER BELOW - COMPLETE

TRANSMISSION
 117.010.54 SPROCKET NO. TEETH 54
 117.010.55 SPROCKET NO. TEETH 55
 117.010.56 SPROCKET NO. TEETH 56
 117.010.57 SPROCKET NO. TEETH 57
 117.010.58 SPROCKET NO. TEETH 58
 117.010.59 SPROCKET NO. TEETH 59
 117.010.60 SPROCKET NO. TEETH 60 - SERIE
 117.010.61 SPROCKET NO. TEETH 61
 117.010.62 SPROCKET NO. TEETH 62
 117.010.63 SPROCKET NO. TEETH 63
 117.010.64 SPROCKET NO. TEETH 64
 117.010.65 SPROCKET NO. TEETH 65

117.015.00 CHAIN CLASP
 117.015.01 CHAIN CLASP
 517.001.28 CHAIN 128
 517.001.30 CHAIN 130
 517.001.32 CHAIN 132 - SERIE
 517.001.34 CHAIN 134

EL. INSTALLATION
 118.001.00 SPARK COIL
 118.002.00 ROTOR COMPLETE
 118.003.00 SPARK PLUG
 118.005.00 SPARK PLUG CONNECTOR
 118.010.00 ZIP TIES
 518.001.00 KILL SWITCH

OTHER PARTS
 119.002.00 LABEL COMPLETE, ONE MODEL
 119.003.00 DISTANCE SLEEVE L=25,8
 119.004.00 SADDLE RUBBER - COMPLETE
 119.005.00 CHAIN ROLLER
 119.006.00 HOLDER ENGINE

119.008.00 TANK WITH CAP
 119.009.00 TANK
 119.010.00 SCREW CAP
 119.011.00 RUBBER FOR FRAME
 119.012.00 GAS TUBE
 119.013.00 HOSE CLAMP
 119.020.00 STAND
 119.035.00 WASHER 6,4 x 18 x 1
 129.008.00 HOSE CLAMP 12/8
 329.001.00 FOOT REST, 2 PCS

JOINING ELEMENTS
 911.001.01 SCREW M 5 x 27
 911.007.01 SCREW M 10 x 140
 912.003.01 SCREW M 5 x 25
 912.007.01 SCREW M 5 x 16
 913.003.01 SCREW M 8 x 35
 914.001.01 SCREW M 5 x 16
 914.003.01 SCREW M 5 x 20
 914.005.01 SCREW M 5 x 30
 914.007.01 SCREW M 6 x 16
 914.008.01 SCREW M 6 x 20
 914.009.01 SCREW M 6 x 22
 914.010.01 SCREW M 6 x 25
 914.011.01 SCREW M 6 x 30
 915.001.01 SCREW M 4 x 8
 915.004.01 SCREW M 4 x 10
 916.005.01 SCREW M 6 x 16
 916.020.01 SCREW M 6 x 40
 916.065.02 SCREW M 5 x 25

920.001.01 NUT M 5
 920.006.01 NUT M 6
 920.008.01 NUT M 5 SELF-LOCKING
 920.009.01 NUT M 6 SELF-LOCKING
 920.010.01 NUT M 8 SELF-LOCKING
 920.011.01 NUT M 10 SELF-LOCKING
 920.012.01 NUT M 8 LEFT

930.003.01 WASHER 10,5
 930.010.00 WASHER 8,4
 930.011.00 WASHER 8,1
 940.001.00 RIVET 4 x 8
 940.006.00 ROLLER 6 x 6

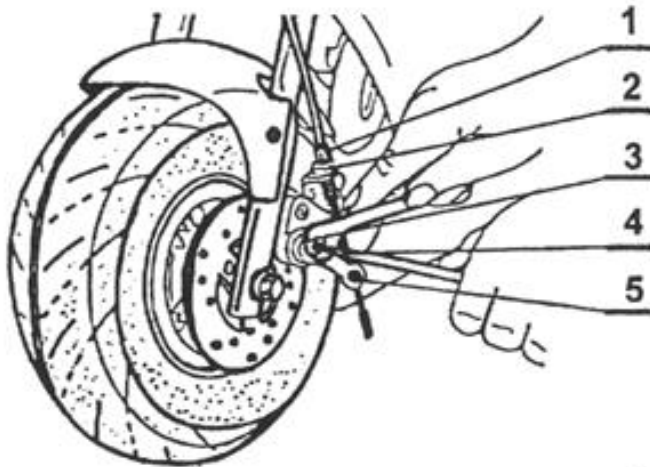
950.003.00 WOODRUFF KEY 3e7 x 3,7
 950.005.00 WOODRUFF KEY 2e7 x 3,7
 950.007.00 LOCK 15
 950.008.00 LOCK 35
 950.010.00 PISTON PIN LOCK RING

960.003.00 BEARING 6000 2R
 960.004.00 BEARING 6200 2R
 960.006.00 BEARING 6202 C3
 960.007.00 BEARING 6202 2ZR

970.001.00 PACKUNG RING 12 x 22 x 7
 970.002.00 PACKUNG RING 15 x 26 x 7

ADJUSTING THE BRAKES

Fig. 4



Fine brake adjusting:

Fine brake adjustment can be carried out on both ends of brake bowden wire by means of the screw 1 and nut 2.

Basic brake adjusting:

It is carried out in such a way, at first, the nut 2 will be loosened and the screw 1 of fine tuning screwed-in. Loosen the locking nut 3 and tighten the adjusting screw 4 so that the wheel can be free turned. Tighten the locking nut 3.

Don't release the wire catcher 5!

FRONT BRAKE PADS REPLACEMENT: FIG.7

At first, loosen the nut 920.006.01 of fine front brake adjustment. Screw - in fully the screw. Unscrew maximum the adjusting screw and lock it by fine tightening the nut 920.001.01. Dismantle the front wheel. Unscrew the nuts 920.008.01 on the front brake and remove the screws 911.001.01. Unscrew two screws 914.009.01 from the side of control lever on brake body and separate both bodies 512.011.00 each other. Remove the old brake pads from both parts. Slide the brake plate, fitted with pin, into the part with operating mechanism. Force on carefully the brake plate into the opposite piece. Before reassembly clean the whole brake. Assembly follows in reverse sequence.

REAR BRAKE PADS REPLACEMENT: FIG. 7

Before replacing the rear brake lining it is necessary to loosen the nut 920.006.01 of fine adjustment of rear brake. Screw-in fully the screw of fine adjustment. Loosen the nut 920.001.01 of basic adjustment. Unscrew maximum the adjustment screw 112.030.00 and lock it by fine tightening the nut 920.001.01. Don't release the wire catcher 512.016.00 and dismantle the rear wheel. Shift the whole brake out of the guide pins. Unscrew both screws 912.003.01 from the control lever side. Separate both bodies 112.003.00 each other and shift the worn-out brake plates out of guide pins clean carefully the brake and put the new brake plates on the guide pins so that they face by lining towards themselves. The assembly follows in a reverse way. After mounting the rear wheel carry out the chain adjustment and basic brake adjustment.

DISMANTLING AND MOUNTING THE FRONT WHEEL, FIG. 5

Unscrew the front axle nut 920.011.01 and shift out the axle. By light pull shift downwards the wheel. Take care, at releasing the wheel the distance roller and shim fall out. At mounting the wheel, direct first carefully the front brake and wheel with brake disk so that the brake disc slides in the space between the brake plates. Insert the distance roller 513.005.01 between the brake disc and fork, then insert partly the wheel axle. Insert the distance shim 930.003.01 between the wheel and right fork and slide in the wheel axle. Screw-on and tighten the nut 920.011.01 of wheel axle.

DISMANTLING AND MOUNTING THE REAR WHEEL, FIG. 5

Unscrew the rear axle nut 920.011.01 and loosen the nuts 920.009.01 on chain tighteners. Shift the wheel forward and remove the chain. At pulling out the wheel axle, secure the rear wheel two distance rollers fall out.

The wheel mounting to be carried out in reverse sequence. It is necessary to see to the right location of distance rollers. Use the shorter roller on the site of chain wheel and the longer one at the brake disc. Don't forget to tighten right the chain, tighten the wheel axle and check the rear brake function.

PINION EXCHANGE: FIG. 6

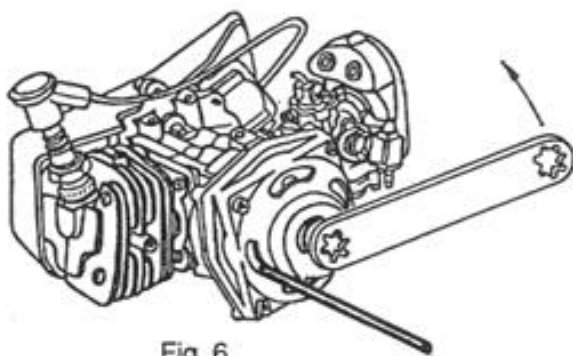


Fig. 6

First dismantle the front lining and chain guard. Loosen the nut of rear wheel axle and the nut of chain tightener, remove chain. Insert carefully a larger screwdriver or steel rod into the hole of clutch drum, Fig. 6, to avoid a turning over the clutch drum releasing the pinion. Using the socket wrench size 14 mm, release the new pinion to carried out by reverse way.

TIRE EXCHANGE, FIG. 5:

First, dismantle the wheel from the Minibike. At the front wheel unscrew the screws 912.003.01, remove the brake disc 112.025.00 and the distance shims 112.029.00. Unscrew the tire valve and deflate the tire. Then, unscrew the screws 914.011.01, thus releasing both disc halves 513.001.00 each other. Only then you can exchange the tire or inner tube. At the rear wheel unscrew the screw 914.001.01 from both sides, remove the brake disc and sprocket wheel and then proceed in the same way as with the front wheel. The reassembly to be carried out by following way. Put the inner tube in the new tire so that the tire valve points to the right at the front wheel and to the left at the rear wheel in travel direction. Insert a half-disc of tire from the tire valve side and put - in the wheel axle. Put - in the distance tube from inner side. Mount the other half - disc into the tire and tighten the bolts 914.011.01 and nuts 920.009.01. Pump-up the tire maximum to 2,5 bar. and mount the wheel by a reverse way.

DISMANTLING AND ASSEMBLY OF AIR FILTER, FIG. 3

Dismantling the air filter unscrew 2 and so ease the holder and put down the suction chamber 1. On this way you gain access to the filter, that you can take off by means of screw driver. After cleaning and lubricating it with engine oil proceed the assembly on a reverse sequence.

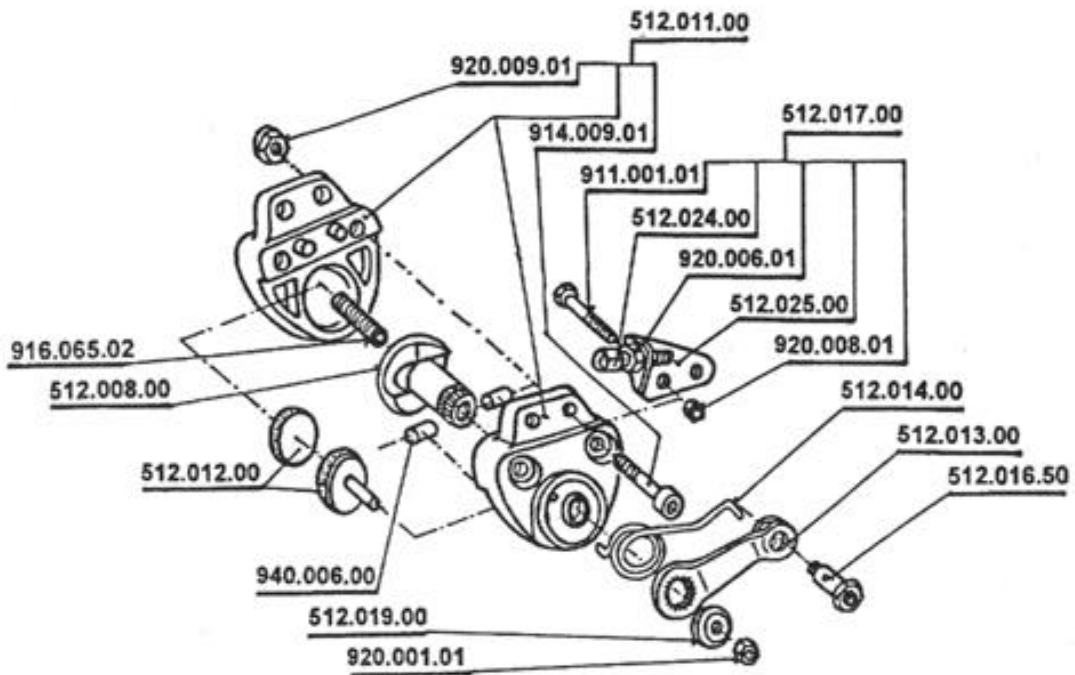
WHAT TO DO BEFORE A PERIOD OF IDLENESS:

Should the minibike not be used for a more or less longer period, take care and make measure as follows:

- Remove petrol from the fuel tank
- Store the minibike on a smooth and dry place
- Protect it from dust
- Remove the spark plug, clean it, put some drops off fuel with oil into the cylinder, pull 2–3 times the starter rope to distribute oil drops and then screw-in the spark plug.

Thank you for your selection of our product. Our wish is that the Minibike may serve you a long time and trouble-free, contribute to your satisfaction and bring you a pleasure.

512.001.00 – FRONT BRAKE COMPLETE



112.002.00 – REAR BRAKE COMPLETE

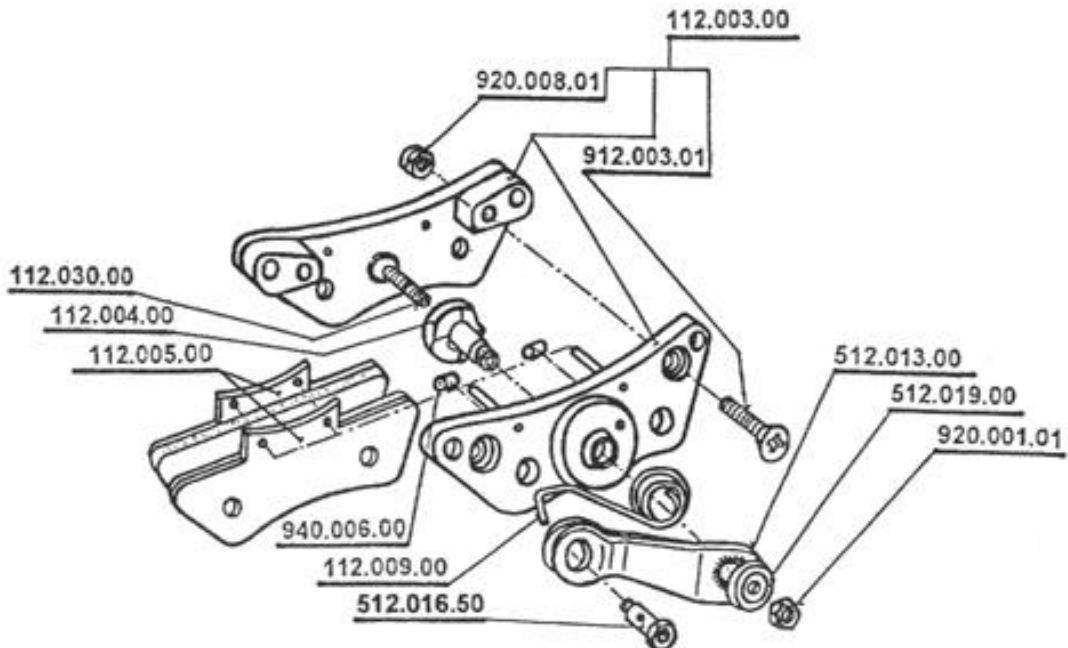


Fig. 7