

OPERATING INSTRUCTIONS FOR THE MOTORCYCLE

JAWA

250 type 597-0

Travel

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and is not an official Jawa document.**

Dear Customer,

We appreciate very much the confidence you have shown by the fact that you chose a machine of our brand.

Welcome to the world's big family of fans of JAWA motorcycles.

This guide is intended to provide basic information about the operation, maintenance and adjustment of your motorcycle.

Please pay attention to its contents and read it carefully to the end.

We wish you much joy and pleasure with your JAWA motorcycle.

Warning:

We reserve the right to make changes, as a result of development, to images or descriptions contained in this guide.

Dismantling and assembling the engine, not here described, require not only special tools but also considerable repairing experience, and therefore we recommend entrusting the more complex repairs solely to official workshops.

Identification number of motorcycle VIN (Vehicle Identification Number)

The motorcycle that you purchased is marked with an identification number on the VIN plate from the manufacturer.

TLJ 597 0 XX 7 T 000 00x

T	Europe	XX	Exemption
L	Czech Republic	7	Code of production year (2007)
J	Producer JAWA	T	Assembly Plant
597	Type	000 00x	Frame serial number
0	Version		

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I. DESCRIPTION OF MOTORCYCLE AND INSTRUCTIONS FOR USE

1. TECHNICAL SPECIFICATIONS

Dimensions of motorcycle

Length	2070 mm
Width	770 mm
Height	1100 mm
Ground Clearance	110 mm
Seat Height	820 mm
Wheelbase	1350 mm

Weight and Load

Motorcycle Dry Weight	139 kg
Operating Weight	154 kg
Maximum Weight	334 kg
Payload	180 kg

Functional properties

Maximum Speed, rider seated normally	120 km / h
Fuel	leaded or unleaded petrol/gasoline, min. 91 octane
Fuel Consumption per 100 km	4.8 litres
Fuel Tank Capacity	17 litres, of which 2.8 litres are reserve

Engine

four-stroke engine, air cooled, petrol, electric starter

Type	TMEC type 253 FMM, 5 speed
Number of Cylinders	2
Format	OHC
Bore	53 mm
Stroke	53 mm
Compression Ratio	9.2: 1
Power	13 kW / 7500
Lubrication	pressure
Capacity	233.8 cubic centimeters
Clutch	multiplate in oil bath

Transmission

Gearbox	mechanical, 5 speed
Primary Reduction	3.631
1 st gear	2.846
2 nd gear	1.777
3 rd gear	1.333
4 th gear	1.083
5 th gear	0.913
Oil Capacity	1.6 litres
Secondary Reduction	14/37 teeth
Chain	5/8" x 3/8" - 96 links

Carburettor

twin, CV type, venturi diameter 26mm

Chassis

Front Suspension: telescopic fork with spiral springs, 2 x 200cc in volume
Rear Suspension: two separate units with hydraulic telescopic shock absorbers

Wheel Rims

Front Wheel 2.15 B - 18"
Rear Wheel 2.15 B - 18"

Tyres

Front 3.25 x 18 "
Rear 3.50 x 18 "

Tyre pressures

see Chapter on Chassis

Brakes

Front 320mm disc, hydraulically operated by a hand lever
Rear 160mm mechanical single leading-shoe, foot-operated lever with rod

2. DESCRIPTION OF MOTORCYCLE

The JAWA 250 Travel type 597 touring motorcycle designed for two persons is yet another reliable motorcycle from JAWA, using a twin-cylinder four-stroke air cooled petrol engine with a very nice simple design - see illustrated appendix.

This motorcycle, with less weight and a comfortable seat (in the Travel style), to which may be added a back carrier for a top box, is intended for leisure use for younger and older sports-minded customers.

Engine

The power unit is a twin-cylinder four-stroke engine with single overhead camshaft and a volume of 233.8 cubic centimeters, with a five-speed gearbox.

This engine has a maximum power of 13 kW at 7,500 RPM and a polished performance, and is a very suitable power unit for this type of motorcycle.

The engine has an electric starter, which greatly simplifies operation.

Wheels

The front wheel is fitted with a disc brake and a plastic mudguard.

The rear wheel is equipped with a conventional drum brake operated rod.

The wheels are a classic spoked type.

Fuel Tank

Has a volume of 17 litres with 2.8 liters in reserve, is all metal, painted, equipped with a lockable cap.

Handlebars

Welded sports type with the possibility of adjustment, and with well-positioned levers and switches.

Ignition Switch

Performs the basic functions of electrical switching.

Instrument Panel

It is equipped with lights, electronic tachometer, and speedometer with metric trip meter.

Seat

It is shaped to suit the tank and side covers and provides comfortable seating for driver and passenger.

Silencers

Exhausts are one-piece, in polished chrome form. Each has 2 catalytic converters, which serve to reduce harmful emissions.

Footrests

The front footrests are attached via rubber dampening pads to the frame of the motorcycle, which eliminate transmission of engine vibrations to the rider's feet.

3. DESCRIPTION OF ELECTRICAL EQUIPMENT

This is a 12V installation. The source is an alternator, and it has a rechargeable battery. A wiring diagram is shown in the Annex.

Alternator

The source of alternating current, with a rated voltage of 12V.

Battery

12V / 9Ah.

Starter

12V 580W, with a separate relay.

Ignition

Contactless electronic ignition with variable advance by means of a sensor that is part of the alternator, together with a separate control unit.

Ignition Coil

The motorcycle is equipped with two ignition coils, which are mounted in the space beneath the tank.

Spark(ing) Plug

The motorcycle is fitted with NGK CR 7 HSA. Plugs from other manufacturers may be used if of comparable values.

Ignition Switch (description of function)

Supplied by ZADI with three positions:

- position 1) OFF - key in the left position (Fig. 1); all functions including ignition are off. The motorcycle will not start, even with pushing. The key can be removed.
- position 2) ON - The first position when turned to the right. Activated electrical system: ignition, starter, direction indicators and instrument lights. Key cannot be removed.
- position 3) LIGHTING – 2nd position when turned to right. This activates the system as in position 2, but now switches on the headlight and rear light as well. Key cannot be removed.

Brake Switch

See page 15, "Adjusting the brakes", and the text that follows.

Direction indicators

12V / 10W lamps.

Front lamp

It is fitted with a halogen bulb H4 12V 60 / 55W, and parking light bulb 12V 4W.

Taillight

Fitted with 1-piece bulb 12V 5W.

Stoplight

Fitted with 12V 10W bulb.

Left switch (Fig. 9)

1. Headlight switch – high/low beam
2. Indicators, left/right
3. Headlight flasher
4. Warning horn
5. choke lever

Right switch (see Figure 7)

With two controls:

1. on/off headlight switch
2. starter switch

Instrument Panel

Instrument panel (see Figure 2) is equipped with (on the left) a tachometer, then warning light devices and, on the right an electronic RPM meter.

On the control panel are the following lights:

- | | |
|--------------------------|-------------------------------|
| 1st upper left (green): | LED function indicator lights |
| 2nd bottom left (green): | Neutral light |
| 3rd top right (blue): | Headlights |
| 4th bottom right (red): | vacant |

Lighting equipment (speedometer and tachometer)

Baseless lamp is fitted with a 12V / 3W. Warning light panel uses baseless lamps 12V/2W.

4th RUNNING-IN MOTORCYCLE

A new motorcycle needs at least 1,500 – 2,000 km before its power can be fully utilized.

Conscientious running-in of machinery extends the life of the machine and also its maximum performance. The motorcycle must be run in a flexible manner (don't unnecessarily overload nor over-rev the engine) and take care especially about these guidelines:

- Do not over-rev the engine, especially in first gear at idle or when not on the move. Maximum speed in these modes can not exceed 5,000-5,500 RPM in each gear.
- The engine speed while driving should be raised to 6000 RPM and maintained about there, and thus it is necessary to adapt one's driving style (don't slog or over-rev the engine).
- The clutch may be used in jump-starting and while moving the motorcycle in reverse. Avoid slipping the clutch to prevent damage to the plates.
- Occasionally check and tighten all fasteners, especially the engine mounting and rear swinging arm.
- Changing the oil in the engine will be necessary after the first 500 km (see chapter on oil changes). Tighten all connections on the motorcycle and check that the battery contacts are clean.

- after the first 500 km is necessary to replace the oil content of the front forks (see chapter on changing the oil in the front forks).

5th OPERATING INSTRUCTIONS

Check before each trip

Visually inspect the brake fluid level (SYNTOL HD 205 of type DOT-3) and the hydraulic braking system for leaks. Check function of brake switch. When the fluid level falls below half-way in the control window, top up fluid. Inspection is performed while the handlebars are in the middle position. (Fig. 3)

Check whether there is fuel in the tank and oil in the engine/gearbox. Inflow from the fuel tank to the carburettor is controlled by a valve lever (Fig. 5):

- 1st, lever downfuel main supply on
- 2nd, lever horizontal fuel off
- 3rd, lever up reserve

Check the engine oil: the level is measured after cleaning dipstick but without screwing it back into the engine (see Fig.13).

Check function of electrical equipment, brake function, check engine for oil leaks, chain tension (see Fig.16 & Fig.17 a), check the condition and pressure of tires.

Starting the engine

Insert the key and turn it to start position, open the fuel valve, open the carburettor choke lever (see Figure 9) (see the description in chapter "Adjusting the carburettor" and press the Start button on the handlebar. Let the engine warm up for a time at low RPMs. After engine warm-up, turn the choke off. After starting, check that all the electrical equipment works.

Ride

When starting off, pull in the left hand clutch lever, engage first gear with the left foot.

Move the lever to the bottom of the foot shift lever and the stop release (Fig. 4). Slowly release the clutch lever while accelerating.

When you reach about 10-20 km / h, change up to the next gear.

Gearshift: 5.gear

4.gear

3.gear

2. gear

N - neutral

lever down - 1st gear

At the end of a trip, set the gear lever into neutral, the ignition key to "off" position and shut off the fuel supply (see Figure 1, Figure 4, Figure 5).

Securing Motorcycle

The motorcycle has two sets of keys (one spare), and this key:

- Locks the standard controls: handlebars can be locked while aligned to the right. Insert the key into the lock, turn it to the right, push in the brass head lock, then turn the key to the left and remove it. Handlebars are now locked. Unlocking is performed the opposite way.

- Locks and secures the seat (Fig. 20)

Insert the key into the lock, turn to the right and pull the lock outward.

Lift the seat in front for about 10-15 cm upward and move it forward to remove the seat from

the frame.

After removal of the seat it is possible to open the under-seat boxes.

Replacement is by reversing the order above.

6th WHAT IS NECESSARY TO AVOID

The engine is at a disadvantage when you let it run for any length of time at high speeds while stationary, as it is not cooled as while driving. Cold starting without a short follow-up drive also harms the engine.

Never rev a cold engine at high RPM, because cold oil will not sufficiently penetrate the hard-to-reach components and you are in danger of seizing the engine. The run-in engine is capable of running at high engine speeds (full throttle) after a short warming-up.

Don't hold the clutch out for long. When riding uphill **never** help the engine by making the clutch slip, but change down in good time to a lower gear. Do not ride for long distances in first gear.

Operating with naked flames or lighted cigarettes near the tank and the carburettor are not allowed because of the risk of explosion.

PLAN OF MAINTENANCE WORK

		500 km	1,500 km	3,000 km	6,000 km	9,000 km
motor oil	3	V	K	K	K	V
clutch	1	K	K	K	K	K
carburettor	1	K	K	K	K	K
ignition	1	K	K	K	K	K
valves	2	K			K	
timing chain	2	K			K	
air filter	3	C	C	C	C	C
spark plugs	3	K	K	K	K	K
secondary chain	1,2	K	K	K	V	K
wheel bearings and swinging-arm bearings	2				M	
brake pads	1,2	K	K	K	V	K
cable inners and outers	2	K	K	M	K	M
front fork oil	2	V			V	
battery	1	K	K	K	K	K
brake and clutch lever pivots, twistgrip	1	K	K	M	M	M
controls	1,2	K	K	K	M	K
cooling system	1,2	K	K	K	V	K
fastenings	1	K	K	K	K	K

Legend:

K	check, clean, adjust and/or change
C	clean
M	lubricate
V	exchange
1	as necessary
2	every 6,000 km
3	each additional 9,000 km

SCHEDULE OF MAINTENANCE WORK:

- At 500 km: Change oil in front fork and engine. Adjust the valve clearances, check battery (clean contacts and check electrolyte level), tighten all fasteners, check and adjust chain tension.
- Every 2,500 km: check brake pads and shoes, lubricate lever pivots.
- Every 5,000 km: change engine oil, adjust valve clearances, perform an overall fine-tuning (including carburettor). Clean air filter (intake silencer). Check battery (clean contacts and check electrolyte level). Check the setting of brakes and adjust as necessary, tighten fasteners.
Remove brake pads, check lining thickness . If brake pads are less than 1 mm thick, the pads must be replaced. When reassembling the brake pads ensure that they are aligned upwards in the caliper and that the projections fit into the groove, making sure not to mix up the left and right pads. Change front fork oil.
- Every 10,000 km: Maintenance and care at this point includes everything that was included in the maintenance at every 5,000 km. Replace front fork oil and check steering head bearings.
- Every 25,000 km or 2 years: Remove the brake calipers, inspect all the parts, replace brake fluid, dust covers and piston seals. Have this done in an official workshop, using the specified brake fluid for corrosion protection.
- Every 50,000 km or 5 years: Dismantle the complete braking system (including master cylinder and valve). Check all working parts, replace all rubber parts (seals, dust covers and connecting hoses). Have this done in an official workshop.

ATTENTION!

We recommend that any repairs to the hydraulic brakes should be conducted by an authorized repair (JAWA brand service).

1st CLEANING MACHINE

Wash machine with water, preferably using a sponge. Take care that the water does not penetrate into the carburettor, brakes or headlight. Dry and polish chrome-plated and painted parts with a cloth or chamois leather. Painted parts may be brightened up occasionally with an appropriate polish.

Water on the outside of the cylinder will tend to discolour the cooling fins. It is best to start the engine and let it run for a time, after which the heated water will evaporate. After cleaning, it is recommended that the lever pivots be lubricated.

2 LUBRICATION

Changing engine oil

This is to be done after the first 500 km, and thereafter every 9,000 km.

Procedure:

- 1) warm up the engine to operating temperature
- 2) Unscrew the dipstick (filler)
- 3) Unscrew drain plug at the bottom of the engine number with a 17mm spanner while cleaning coarse oil filter (see Figure 4)
- 4) after draining used oil, refit the drain plug and pour in 1.6 litres of motor oil

CAUTION:

This engine has a common oil filling for the engine and gearbox.

Cleaning of the coarse filter must be made at each oil change.

Recommended oil - Shell HELIX SUPER 15W-40 - or you may use oil from other manufacturers with comparable values.

Change oil in front forks

Total oil capacity of the two shock absorbers is 400cc of oil, ie. 200cc in each leg. Apart from damping, the oil serves for lubricating bushings and sliders.

Before the first oil change, we recommend that the front forks be cleaned out with two changes of flushing oil.

- a) First oil change after the first 500 km
- b) Regular oil changes thereafter at every 5,000 km.

Procedure for an oil change in front forks

see section on Dismantling the front wheel.

Place an oil drain tray under the forks.

- Remove the drain plug (see Figure 15, Figure 18).
- Remove the upper filler screw.
- After the old oil has drained, clean the forks out with flushing oil.
- Check the soundness of the sealing washers of the drain plug and the upper threaded caps.
- Fill both forks with fork oil.
- Refit fork top upper threaded caps.

Lubrication and chain tensioning

see Adjustment

Air Filter

Clean the air filter cartridge washing in benzene and squeeze dry. Then apply a special spray-on air filter oil, or an engine oil/petrol mix in the ratio 1:1 and squeeze out excess before refitting (Fig. 11).

3 SERVICING BATTERIES

The electrolyte level should be checked once a month. If it is below the mid-point between the upper and lower level marks, top up with distilled water so that the level reaches the upper mark. Never refill with acid! (Fig. 10)

The battery must be kept clean and dry, connecting cables must be protected against damage, and the breather hose kept free from kinks.

In the event that the motorcycle had not been in use for a long period and the user notices that the headlight is weak and the level of sound emitted by the horn is feeble the specific gravity of the electrolyte may have decreased to the following levels:

- YUASA batteries in areas with tropical or moderate climates to values lower than 1.20 kg/l
- AWS battery in areas with a tropical climate to values lower than 1.18 kg/l; in areas with milder climates to less than 1.21 kg/l.
- for other types of batteries according to manufacturer's recommendations.

Recharging is appropriate if the motorcycle has not been used for more than a month. Remove battery from the vehicle and check the volume of electrolyte. If necessary, fill the battery with distilled water to the upper level. Optimum charging current is 0.9 A and the battery temperature during charging should not exceed 55 degrees C.

The battery is fully charged when all the cells gas evenly and density values are no longer increasing. Specific gravity of the electrolyte should reach values shown above after charging.

If necessary, top up the electrolyte after charging by adding distilled water. Generally, the charging current (amps) ought to be no higher than one-tenth of battery capacity (Ah).

4th ADJUSTMENT

ADJUSTING MOTOR

TMEC type 250cc

Adjustment timing

You can check this but not adjust it, since it is a fixed setting. Checking is performed by stroboscope while the engine is running (in approved workshop).

Adjusting the valve clearances is a high-precision operation, so it should be entrusted to a professional JAWA service.

JAWA 250/597 Travel: intake valve: 0,07mm exhaust valve: 0,07mm

ATTENTION!

Proper valve adjustment will affect the performance and reliability of the engine. Therefore, we recommend setting valves for the first time after 500 km and then after 6,000 km.

Adjusting the carburettor

These carburettors have two components that can be adjusted and they are the following:

1st: the idle screw on the right-hand side of the motorcycle (see Figure 8)

2nd: the choke (the engine cold start device) which is located on the left handlebar (Fig. 9).

Adjusting the clutch

For proper operation the clutch must be engaged with a set minimum clearance. To achieve the minimum clearance use the 2 adjusters, one of which is located on the handlebars (Fig. 9) and the other on the engine casing (Fig. 6, Figure 12).

Adjusting the brakes

Front brake (putting back into operation after maintenance or repairs)

Tighten all sealing joints, pour brake fluid into the brake master cylinder.

Repeatedly pressing the lever front brakes delivers brake fluid to the entire brake system

(to speed up the operation, carefully open and close the caliper brake fluid bleed screw while operating the brake lever). To fill the entire system with fluid, the brake must be properly bled. Fit a length of transparent tube to the bleed screw on the left side of the caliper brake slide and place the other end of the tube into a glass of brake fluid. After operating the brake lever tighten the bleed screw again. This operation must be performed until only clear fluid without bubbles is seen in the transparent tube while brake lever is being operated. Ensure that the master cylinder is kept topped-up during this operation. Adjust the stop-switch adjust so that it is just in contact with the brake lever while not in use, but does not trigger the brake light.

ATTENTION!

Repairing front disc brakes: for safety reasons refer to a workshop.

Rear brake

1st: Adjust rear brake by turning the wing nut (Fig. 19).

2nd: Wing nut is to be tightened until brake shoes begin to operate. Then, about 1.5 turns is released.

Proper adjustment of the rear brake is a prerequisite for proper operation of the brake switch.

Adjusting the front brake-lever screw to adjust the bias control of the main cylinder, free play of between 0.3 and 0.5 mm. There should be no sponginess in the system. Adjust the brake light switch so that the brake light comes on before the brake is applied.

Adjusting the rear brake light switch

1st Remove the locking pin of the double-ended Bowden cable, which is attached to the gear lever and rear brake (see Figure 6, Figure 13).

2nd by resetting the appropriate endings of the double-ended find the location at which the switch turns on the brake light as the brake lever is being operated, and still reliably returns to the OFF position when pressure is removed.

3rd: Ensure proper fitting of cotter pins.

Chain Tensioning and lubrication

Place the motorcycle on its stand, loosen the rear wheel spindle nut and the nut on the rear sprocket side. Then loosen the chain tensioners on both sides. Tension the chain gradually by tightening bolt tensioners to the same value. The chain should be tensioned so that when lifted up at the lateral reinforcement on the swinging arm its deflection should be 20 - 30 mm (Fig. 16, Figure 17).

ATTENTION!

It is necessary to maintain alignment (make sure front and rear wheels are in line to avoid biasing the rear wheel to one side or the other). Alignment has an effect on driving the motorcycle.

Lubrication of the chain: the chain should be lubricated at least every 500-600 km, or whenever the motorcycle is used in humid environments, or after a long break (after the rain, in the rain, and after winter).

RECOMMENDATION

A properly and frequently lubricated chain will last longer than a neglected one. When properly maintained and kept at the right tension, this chain should last from 10,000 to 12,000 km.

ATTENTION!

In the case where the chain alone is changed it can happen that it will wear excessively. Always replace the chain, drive sprocket and rear sprocket together.

BASIC headlamp alignment

Headlamp alignment is carried out under the following conditions:

- a) the motorcycle is placed on a horizontal surface and load one rider on the bike without using the stand
- b) the tires are inflated to the prescribed pressure

Observe the height of the horizontal axis of the headlamp centre. Mark this height on a vertical wall 5 metres from the lamp. Note this position, and draw a horizontal line 6.5 cm on the wall below the level of the mark.

Light up the dipped beam headlamp and set it so that the parameters of the beam correspond with the sketch.

We recommend adjustment be made during a professional service.

III DISMANTLING AND REASSEMBLY WITHOUT SPECIAL TOOLS

ROLLING CHASSIS

Dismantle the front wheel

Unscrew the nut, loosen the wheel spindle and remove spring washer, loosen the pinch bolt on the left and remove the wheel spindle. Be careful not to operate the front brake lever when the wheel is removed as it would displace the brake pads. After removing the wheels, we recommend you insert between the brake pads a retainer of the same thickness as the brake disc, or thicker, to prevent inadvertent use of the brake.

When reassembling take care to remove the retainer (between brake disks), slip the brake disk brakes carefully between the brake pads, clean and grease the wheel spindle. After inserting the shaft into the wheel, replace and tighten the nut. Pump the front fork several times and only then tighten the pinch bolt on the left of the slider.

ATTENTION!

When removing the front wheel is necessary to support either the front fork or back end of motorcycle, so that the motorcycle does not roll forward and fall off the main stand.

Dismantling the rear suspension

Every 10,000 km mileage the rear suspension should be dismantled. Unscrew the units (dampers) and check their function and tightness, which should be done on specialized equipment. Therefore it is necessary to have repairs to the rear dampers carried out in a specialized repair shop. If the damping unit cannot be repaired, it must be replaced with a new one. For repairs and replacement you need to fit dampers as a pair. If you fail to do so, there may be misalignment because of incompatible damping force of each damper.

Dismantling the fuel tank

Close the fuel valve and disconnect the hose. Once removed, detach the seat and the silentblock rubber mountings holding the tank at the rear. Lift tank by the rear and move it backwards along the longitudinal axis of the motorcycle, raising the tank off the leading silent blocks mounted on the motorcycle frame.

Disassembly of the rear wheel

For dismantling the rear wheel, unscrew the wing nut from the brake rod, and the nut of the rear spindle. Then remove the spindle, spacers, brake torque arm and rear brake rod and then carefully remove the rear wheel. Reassembly is an easy reversal of the above procedure.

Tyre pressures (see diagram,)

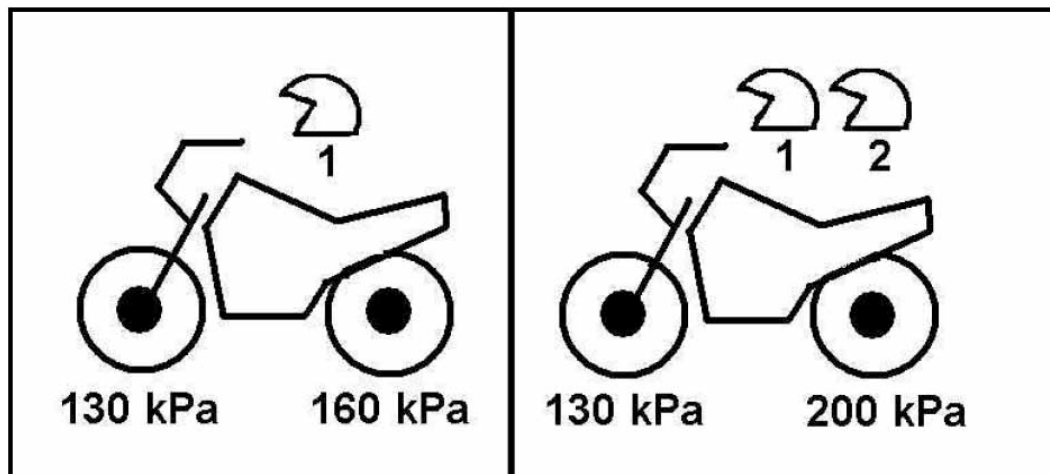
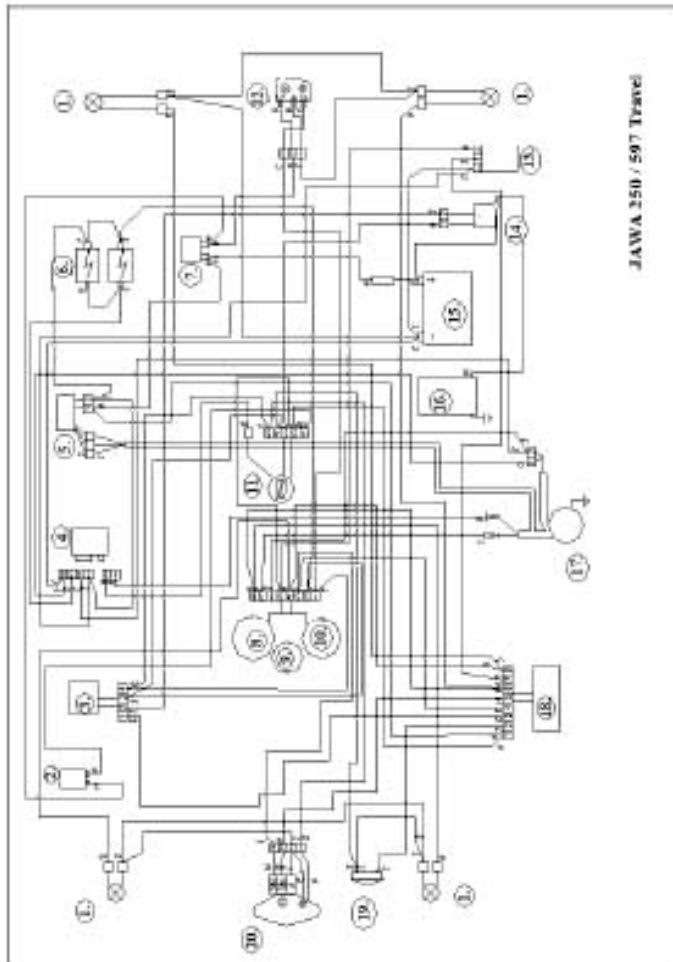


TABLE LIQUIDS AND LUBRICANTS USE

	Types of Czech Republic	viscous range	
Note A +lever pivots brakes and clutches + Brake control + Pins stands + Bowden wire	Trans Mogul 1990 Gyrol 90	API GL 4 SAE 90	Temperatures above 00 C
B + engine lubrication and gearbox	Mogul Trans 80W/90 Gyrol 80W/90	API GL 4 SAE 80W/90	Year-round
C + front telescopic fork	Shell Super-HELIX 15W - 40 Mogul Super 15W-40	API S6 SAE 15W - 40 API SC / CB or API SF / CC SAE 15W/40	Year-round
D + twist grip gas + Swinging back fork	Grease LA2	ISO - L - XBCEB 2	
E + deposit back sprocket	Grease LA2	ISO - L - XBCEB 2	
F + lubrication of wheel bearings	Grease LA2	ISO - L - XBCEB 2	
G + secondary chain	Grease LA2	ISO - L - XBCEB 2	
H & brake fluid	Spec Spray on chains SYNTOL HD 205	Castrol Mo S2 DOT 3	Gleitmo 592 and other

ELECTRICAL WIRING DIAGRAM



Legend for electric scheme

- | | |
|---------------------------------|-------------------------|
| 1. Indicators | 11. Switch box |
| 2. stop switch (front) | 12. rear lamp |
| 3. Right click | 13. interrupter flasher |
| 4. CDI - central control unit | 14. starter relay |
| 5. relay controller | 15. battery |
| 6. ignition coils | 16. starter |
| 7. stop switch (rear) | 17. alternator |
| 8. RPM counter | 18. left switch |
| 9. panel with instrument lights | 19. horn |
| 10. speedometer | 20. headlamp |

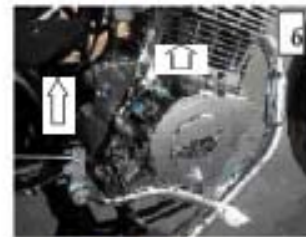
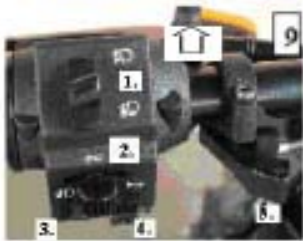
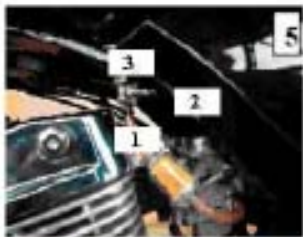
Colour coding cables

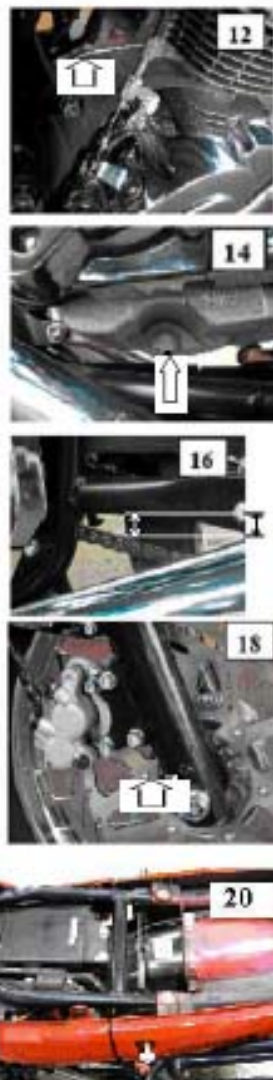
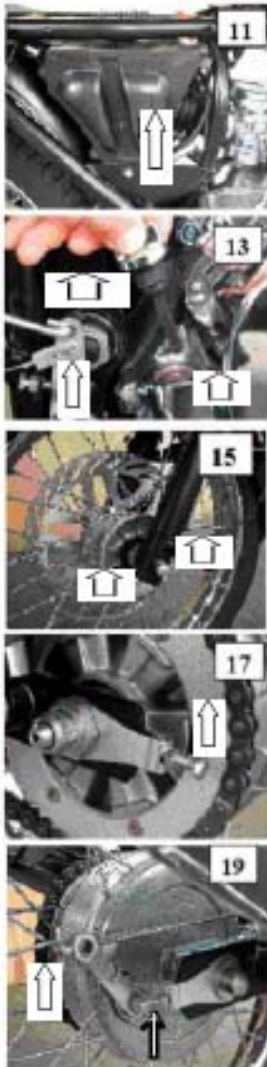
Č	black	R	red
B	white	M	blue
H	brown	/	yellow
F	violet		

List of Illustrations

Motorcycle Jawa 250 Travel Type 597 general appearance

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20 - 30
mm