# ARELDIE R

# MO-PED MP 9 MO-PED MP 19

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Ref. 650.00.65

Operating Instructions and Owners Manual



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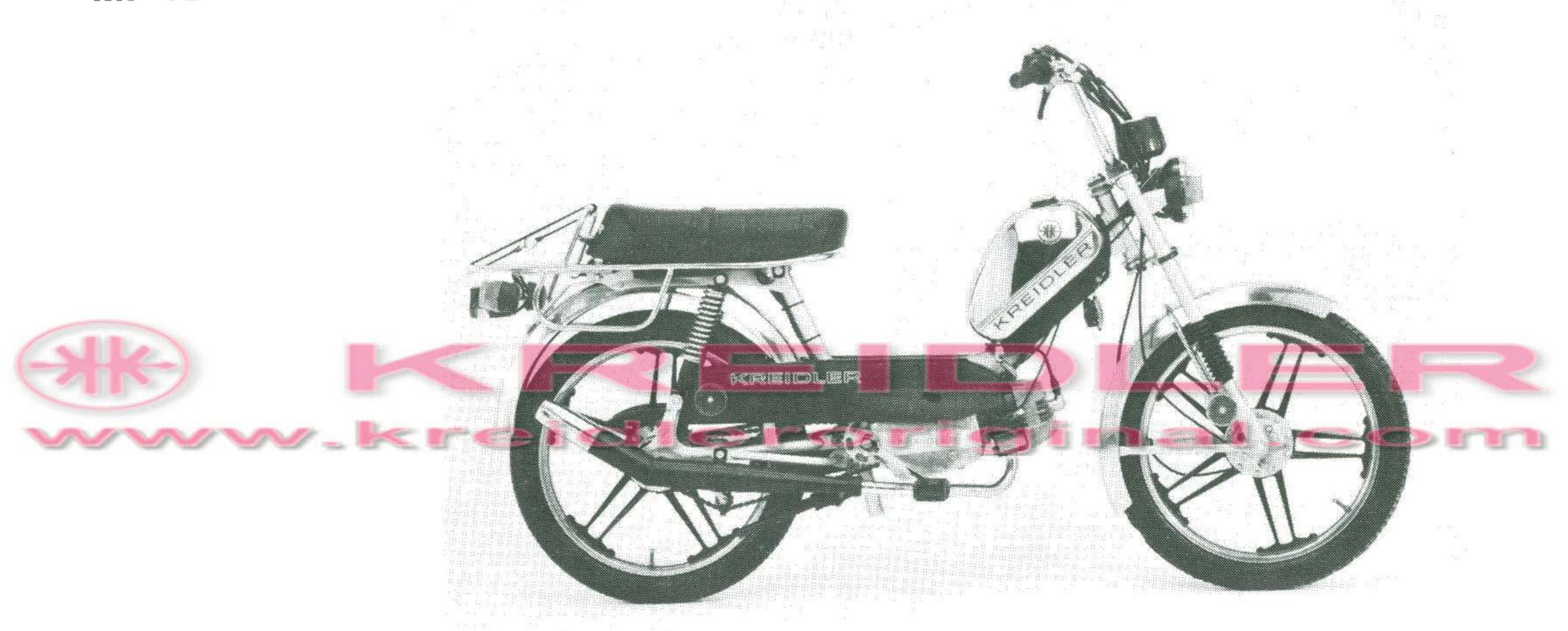
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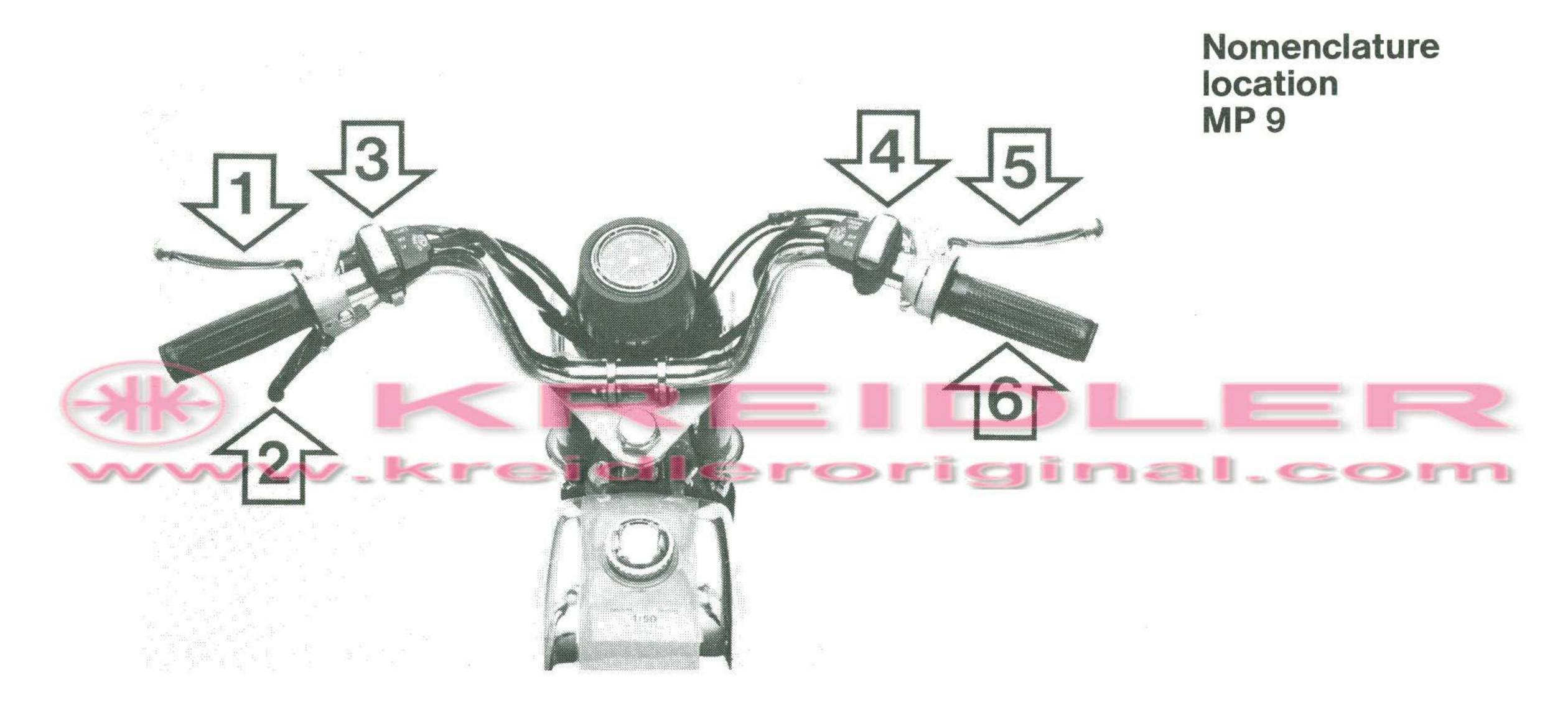
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360 Test

**MP 19** 





1 = Lever for front wheel brake

2 = Decompression and start clutch lever (choke)

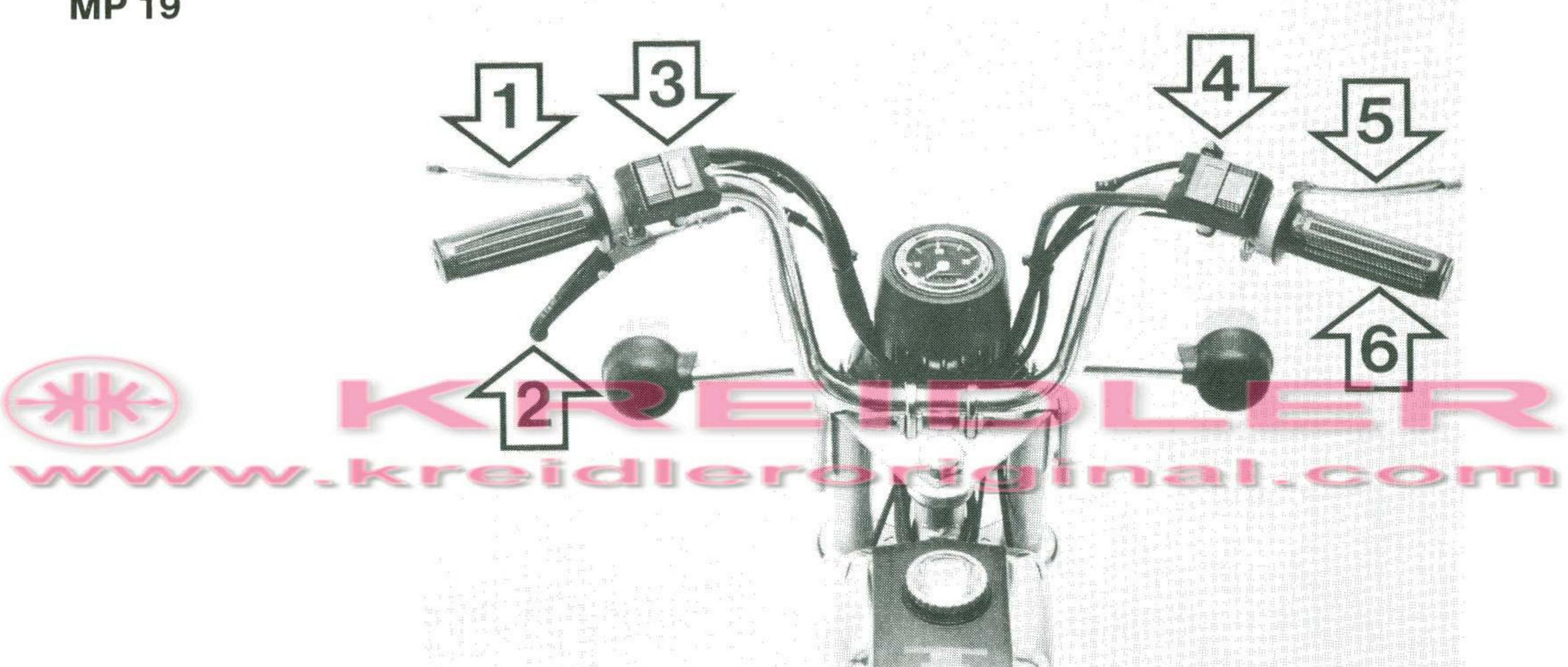
3 = Light switch with signal button

4 = Ignition switch

5 = Lever for rear wheel brake

6 = Throttle twist-grip

### **MP 19**



- 1 = Lever for rear wheel brake
- 2 = Decompression and start clutch lever (choke)
- 3 = Light switch with signal button

- 4 = Ignition and blinker switch
- 5 = Lever for rear wheel brake
- 6 = Throttle twist-grip

#### Indification plate

is located ou the teleskop-type fork stand pipe left.

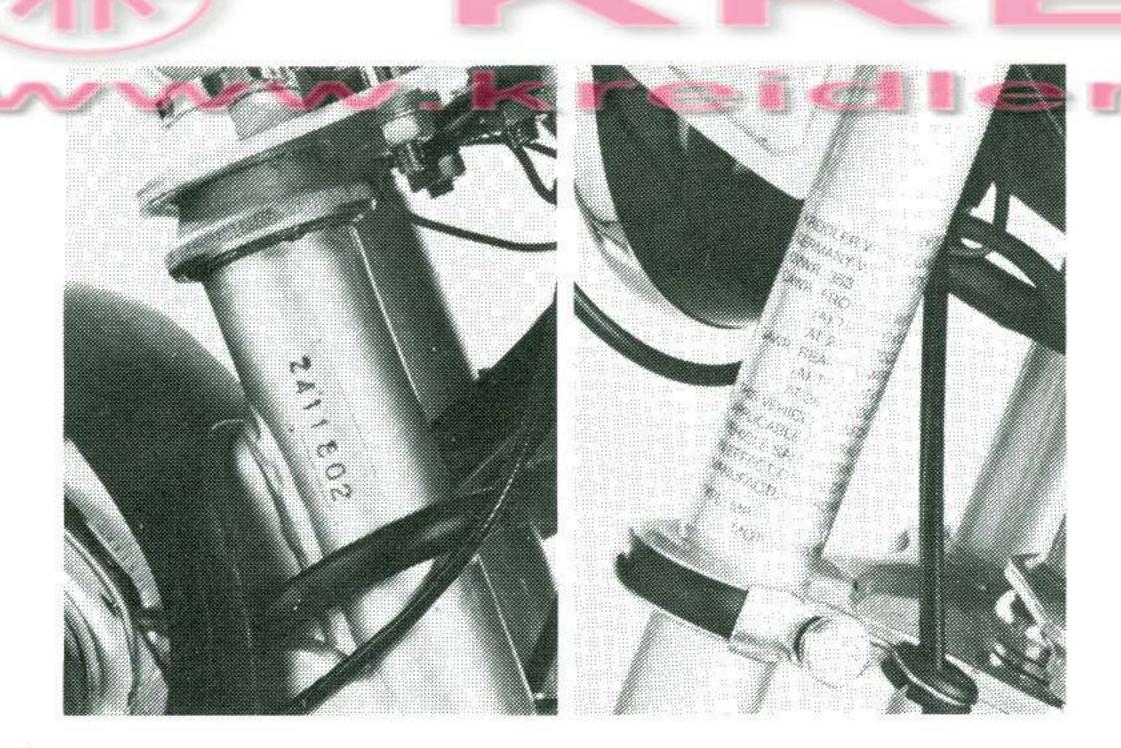
Both are considered to be documents and must not be changed or removed under any circumstances.

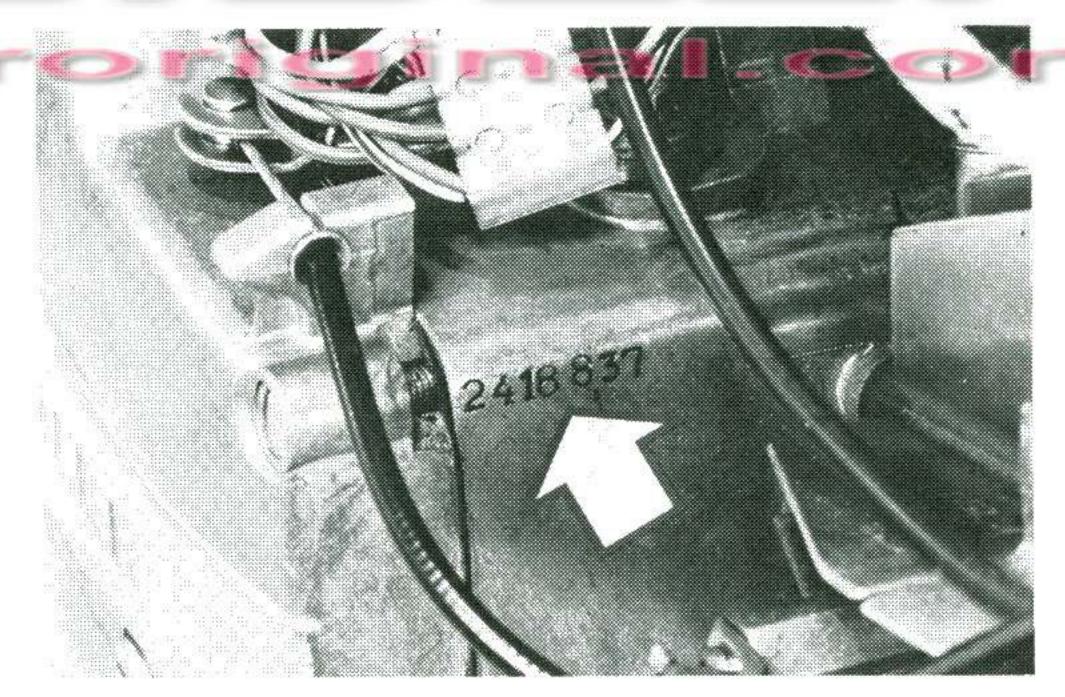
#### Frame serial No.

is located on the steering head behind the headlight.

#### Engine serial No.

is stamped into the engine on the right side.





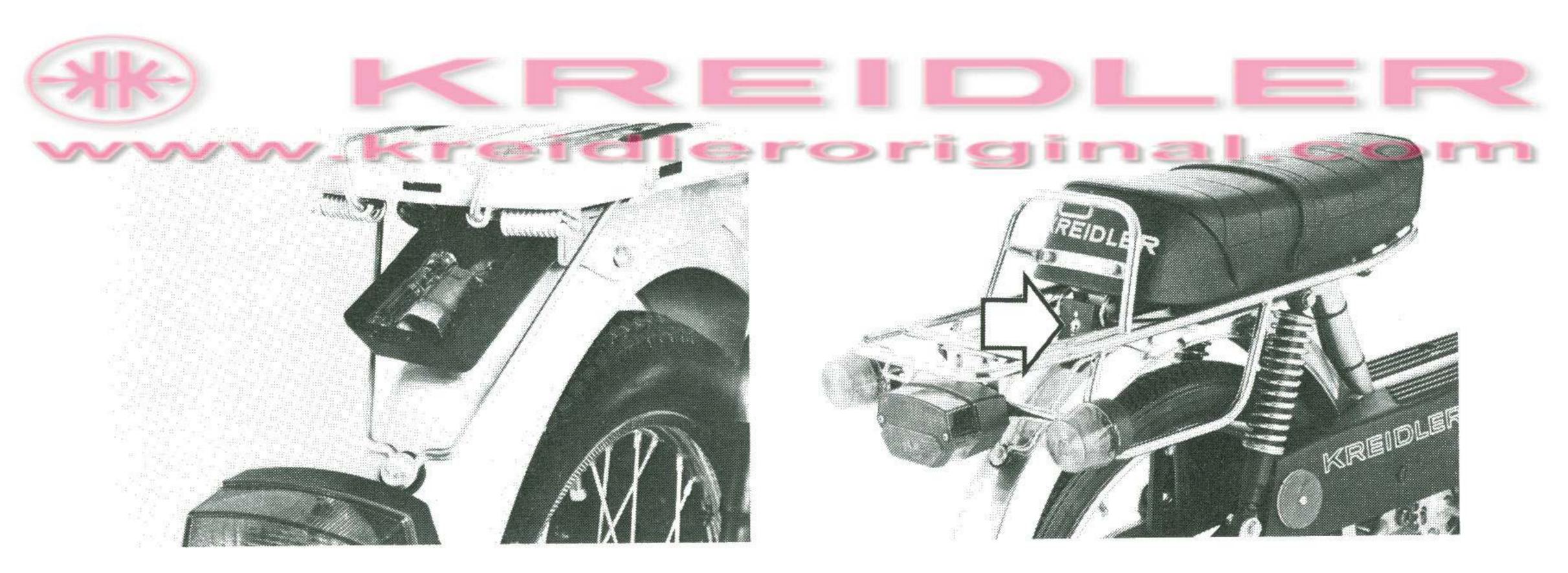
#### **Tools**

#### MP9

Underneath the luggage carrier. For removing the kit press rear wall to the inside and press catch out of the carrier slot. Your KREIDLER dealer will be happy to install a lock on your vehicle so that your board tool kit is protected against theft.

#### **MP 19**

Underneath the bench seat. Open lock with tool kit key, pull up lock and remove clamp from catch. Tilt bench up.



#### Switch on left handlebar

#### MP9

1 = light switch

Pos. A = ON

Pos. B = OFF

2 = Signal button

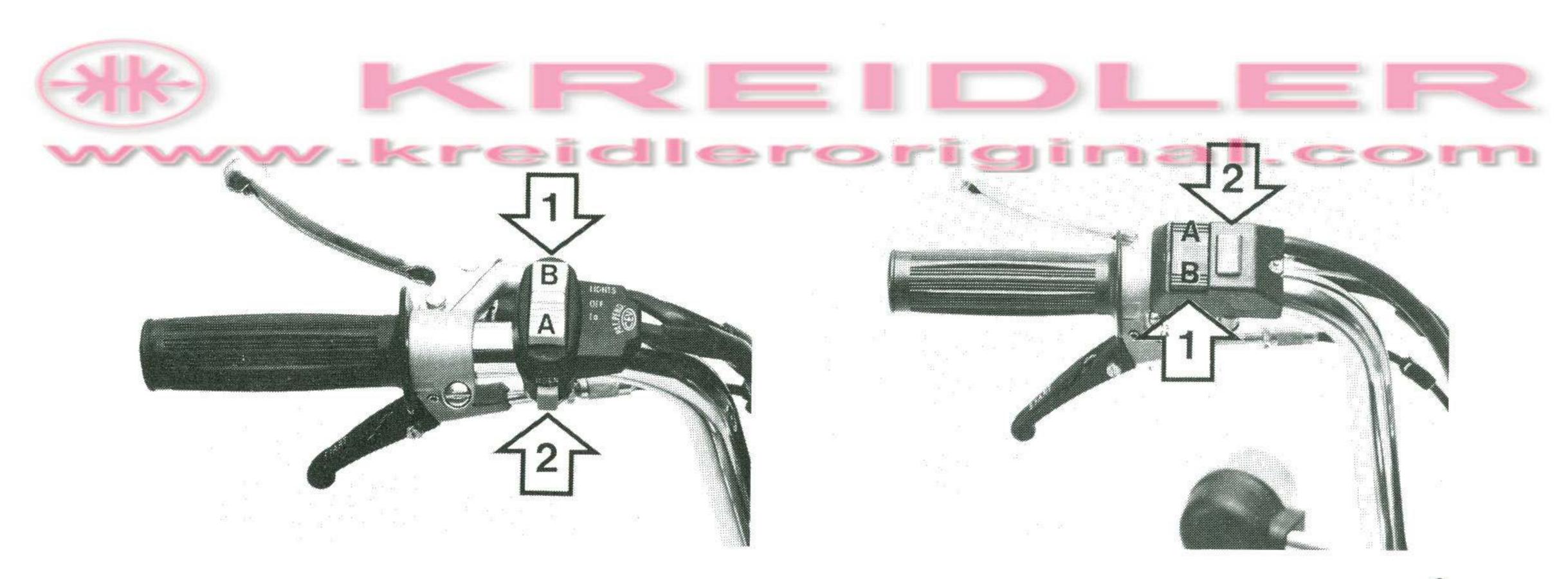
#### **MP** 19

1 = light switch

Pos. A = ON

Pos. B = OFF

2 = Signal button



## Switch on right handlebar

MP9

"Off-Run" switch

Pos. A = RUN

Pos. B = OFF

#### **MP 19**

1 = Ignition switch

Pos. A = ON

Pos. B = OFF

2 = Blinker switch

Pos. C = Blinker right

Pos. D = Blinker OFF

Pos. E = Blinker left



# Important information before first operation of moped

#### Front forklock

Insert key into steering lock, turn approx. 45° to the left simultaneously pulling. Release and withdraw key.

#### Fuel in tank?

Pure gasoline severely damages engine and notifies warranty. The required gasoline/oil mixture must be in the ratio 50: 1 – watch the gas station attendant closely and see that the proper amount of oil is added (see also kap. "gasoline and oil").

Fuel cock

Lever position 1 = closed

Lever position 2 = open

Lever position 3 = reserve





#### Tire pressure

should not be checked with the tumb. Use a tire pressure gage every time you stop in for fuel see "Technical data" for correct tire pressure – check pressure when tires are cold.

#### **Brakes**

are checked by pulling both brake levers and trying to move the vehicle without engine power, or by dealer inspection.

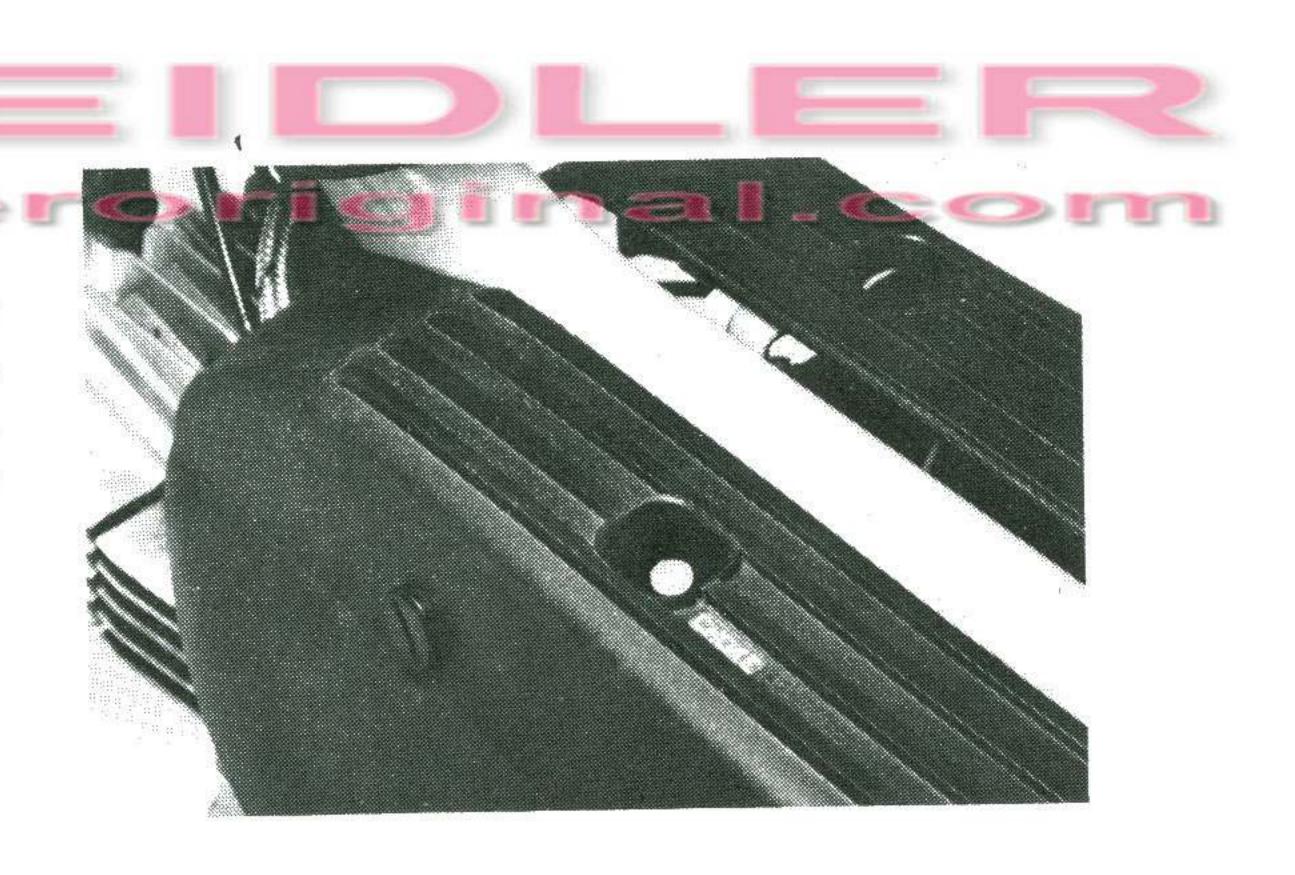
#### Starting engine \_\_\_\_\_\_

Switch on ignition.

Start vehicle using pedals, pull start clutch lever on left handlebar after a few wheel revolutions and twist throttle grip a little bit toward yourself. Release lever and accelerate slowly by further twisting the throttle grip toward yourself.

#### Choke

Depress the pressure pin protruding over the carburetor top on left hand top side of engine cover (causes enrichment of the mixture for easier cold start) – the pin returns to its normal (travel) position when you turn the throttle.



#### **Checking lights**

Turn on the lights with engine running and check headlight, taillight and stoplight.

#### Signal

Test signal horn.

### **During operation**

When the engine has acquired a sufficient speed, it shifts to second gear. As soon as the engine speed drops below a certain speed the automatic gear system shifts down to first gear.

If a slope is excessively steep so that the engine is subjected to too much stress, you may assist the engine by using the pedals.

When you stop for traffic lights, pull both brake levers and have engine run idling. Never accelerate while your vehicle is stopped and the brake levers are pulled because this would unnecessarily strain the gearing.

#### Stopping and parking

Return throttle twist grip to idling position and brake the vehicle.

#### Stopping engine

Always operate the "Off-Run" switch on the right handlebar. Do not operate the start clutch lever on left handlebar because as the engine will not stop because of the loss of compression but will be stalled.

#### Parking vehicle

Always close fuel valve. Place vehicle on kick stand and secure via steering lock by inserting key, turning same approx. 45° to the left simultaneously depressing it in counterclockwise direction and swinging the handlebar to the right until the lock cylinder rests in the catch. Release and withdraw the key.

#### Gasoline and oil

#### No advantage from premium gasoline

Use regular gasoline. Being a two stroke engine the Moped engine does not respond to high-octane gasoline. Please use regular octane gasoline fuel.

#### There is a difference in oil

Without any doubt the special 2 T (two stroke) oil, a special type for two stroke engines, is ideal, i. e. 2 T oil contains an effective anti-corrosive agent because of the acidic combustion products in the cold engine – and 2 T oil leaves very little combustion deposits – positive results: the combustion area of the engine stays clean, no pinging, no glow ignition, no spark plug troubles (gap-bridging), clean piston bearing surfaces and piston ring grooves preventing ring jamming.

#### Self-mixing

You can buy standard 2 T oil which must be

thoroughly mixed with gasoline in a mixing can, or the practical self-mixing 2 T oil (it is also called premixed 2 T oil because it contains approx. 10 % gasoline); the prescribed quantity of this type oil is poured directly into the tank where it readily mixes with the gasoline.

#### The mixing ratio

must be 50 (parts of gasoline): 1 (part of oil), independently of the type of oil used.

#### Engine lubrication on downhill drive

Downhill with throttle closed the engine is driven by the rear wheel. In view of the fact that the two stroke engine receives lubrication only via the fuel, it is advisable to open the throttle a little bit while going downhill although it is not a MUST.

The result of opening the throttle partially causes an oil supply to engine.

## Servicing and maintenance

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18	ш	C	8	8 8	40	C		CI			C	0	U	8 8	C	w	u	

Maintenance schedule				
Maintenance work required at speedometer reading	300	1800	3600	every
Engine				
transmissial oil change with warm engine	Χ		Χ	3600 miles
Check transmission oil level, replenish if necessary	X	Χ	Χ	3600 miles •
Tighten cylinder head screws	X	after	this 300 each cy disasse	linder
Check engine mounting bolts for secure seat	X	X	X	3600 miles
Clean cylinder, piston head and cylinder exhaust pipe, check piston rings for free motion.  Clean decompression lines in cylinder		X	X	3600 miles ▲
Ignition system Check contact breaker point gap and adjust if necessary Renew breakers with scord points	X	X	X	3600 miles
Check spark setting	Х		X	3600 miles
Sparkplug, check electrode gap and adjust if necessary (0.4 mm)			Χ	3600 miles ▲
Grease lubrication felt of contact breaker			X	3600 miles
Fuel and exhaust systems				
Clean fuel cock with filter	X		Χ	3600 miles

Maintenance work required at speedometer reading	300	1800	3600	every
Clean and adjust carburetor	X		X	3600 miles
Clean air filter			X	3600 miles
Clean exhaust system		X	X	3600 miles ▲
Drive chain, sprocket wheel, sprocket pinion				
Check chain tension under load, retension if necessary, lubricate chain, check track alignment	X	X	X	3600 miles •
Check sprocket wheel and sprocket pinion replace if necessary		X	X	3600 miles •
Treadling Chain Lubricate chain	X	X	X	3600 miles •
Steering Check steering head bearing for play and adjust if necessary		X	X	3600 miles
Wheels and brakes				
Check spoke tension, retighten if necessary (Wire spoke wheel)	X		Χ	3600 miles •
Check rim and spoke screws, retighten if necessary (composite wheel)	X		Χ	3600 miles
Lubricate speedometer drive	X		X	3600 miles
Check front and rear brake linings for thickness (minimum 2 mm)			Χ	3600 miles

Maintenance work required at speedometer reading	300	1800	3600	everv
Bowden cables				
Lubricate Bowden cables and adjust if necessary	X	X	X	3600 miles •
Chassis	30	17.25	, sexua	
Retighten all chassis screws and nuts	X	Χ	Χ	3600 miles
Electric sytsem			Towns 12	
Check entire light system (should be repeated prior to				
each use)	X	Χ	X	3600 miles
Adjust headlight	X	X	X	3600 miles •

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- Minimum once per year
- May be repeated more frequently in the event of rapid decrease of performance or maximum speed
- Depending on the operating conditions for the vehicle this work may be performed earlier.

Ask your KREIDLER dealer for performing servicing and maintenance work. Claims under guarantee are accepted only as long as the servicing and maintenance work can properly be proved by entries on the servicing and maintenance card.

On the following pages the maintenance and servicing work is listed in the same sequence as given on the maintenance schedule.

### **Engine**

#### Oil draining

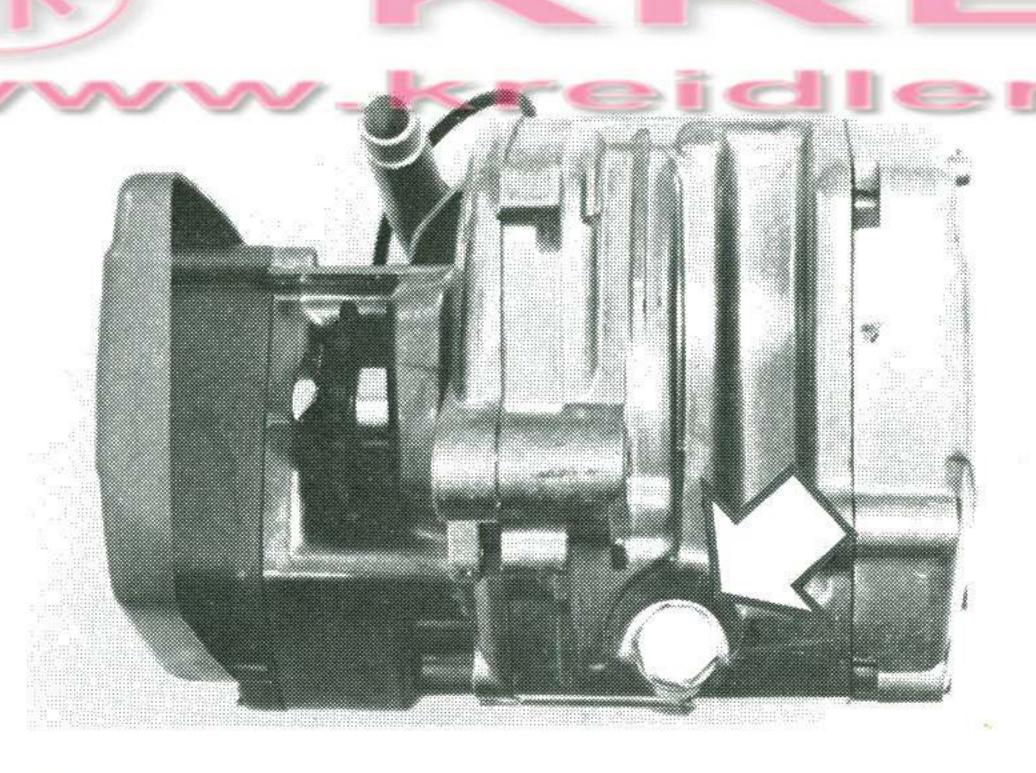
while engine is warm. Unscrew drain plug from center part of the case underneath the tread sprocket wheel. Wait until oil is completely drained, replace gasket, fit drain plug and tighten securely.

#### Filling oil

Unscrew oil filter plug on right side of motor case, fill in prescribed oil type in prescribed quantity (correct level: lower edge of oil filling bore), replace gasket, insert and tighten filler plug.

#### Checking oil level

Place vehicle on kick stand, unscrew oil filler plug – the oil level must reach the lower edge of the filler bore.





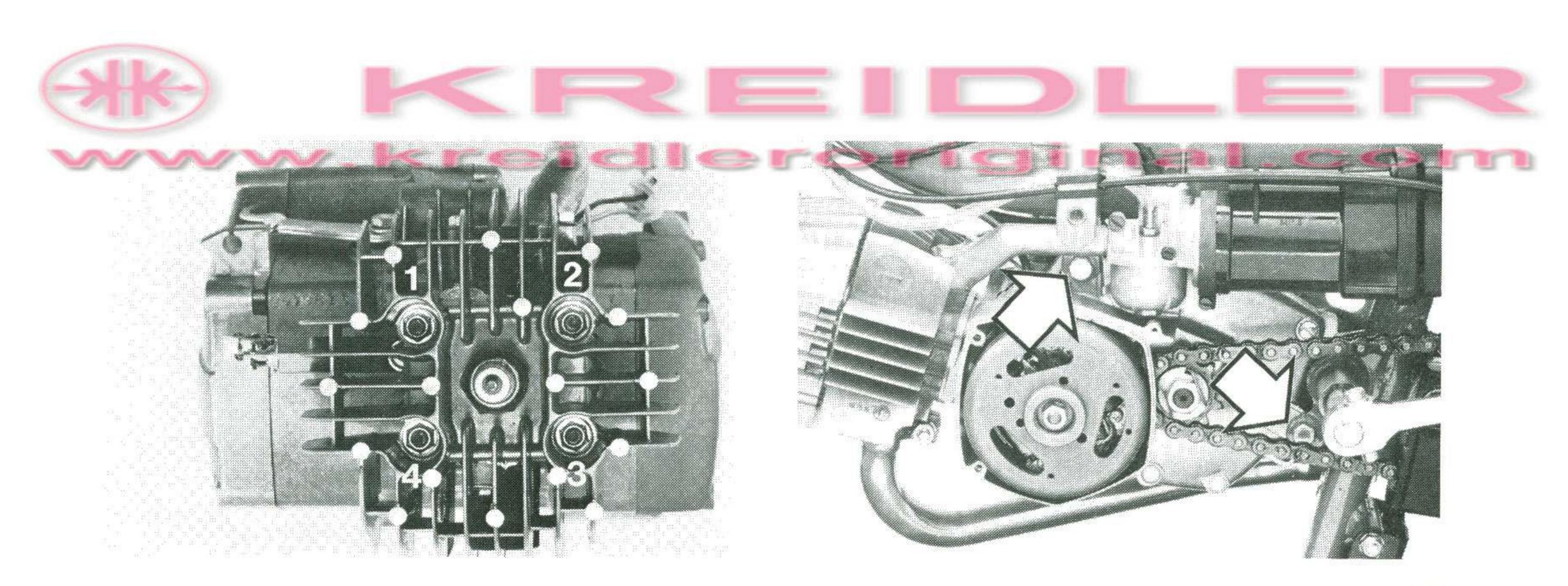
#### Cylinder head screws

must be retightened in the prescribed sequence (1-2-3-4).

Tighten cylinder head screws after the first 300 miles and then after 300 miles following each disassembly of the cylinder head using a torque wrench for applying the specified torque (see technical data).

#### **Motor mounting bolts**

must be checked for tight seat in regular intervals.



#### Cylinder, piston head and exhaust pipe

should be cleaned by a professional mechanic only.

#### Ignition system

The engine is equipped with a contact-controlled flywheel magneto ("contact-controlled" means the breaker points cause the increase and decrease of the power in the ignition coil thus indirectly controlling the spark of the sparkplug).

#### Spark setting

is subject to changes during the course of time due to breaker point wear. Have your KREIDLER dealer perform the readjustment work because they have the necessary adjusting and checking equipment.

#### Sparkplug

Be sure you have a proper heat range (see technical data). Only those sparkplugs listed in the technical data ensure that the combustion temperature existing in the Moped engine is sustained for perfect ignition – ascertain that a replacement sparkplug is one of the type listed under technical data and has a short 14 mm thread.

#### Sparkplug maintenance

Clean correctly: do not scrape the plug with a sharp tool – clean with a soft steel brush – cleaning the inner portions is most important; if possible use special equipment available at gas stations and your KREIDLER dealer.

#### Electrode wear

The external and center electrodes of the sparkplug wear during the course of time by burning, which changes the electrode gap this causes poor starting or misfiring with the light turned on.

Remedy: Adjustment . . .

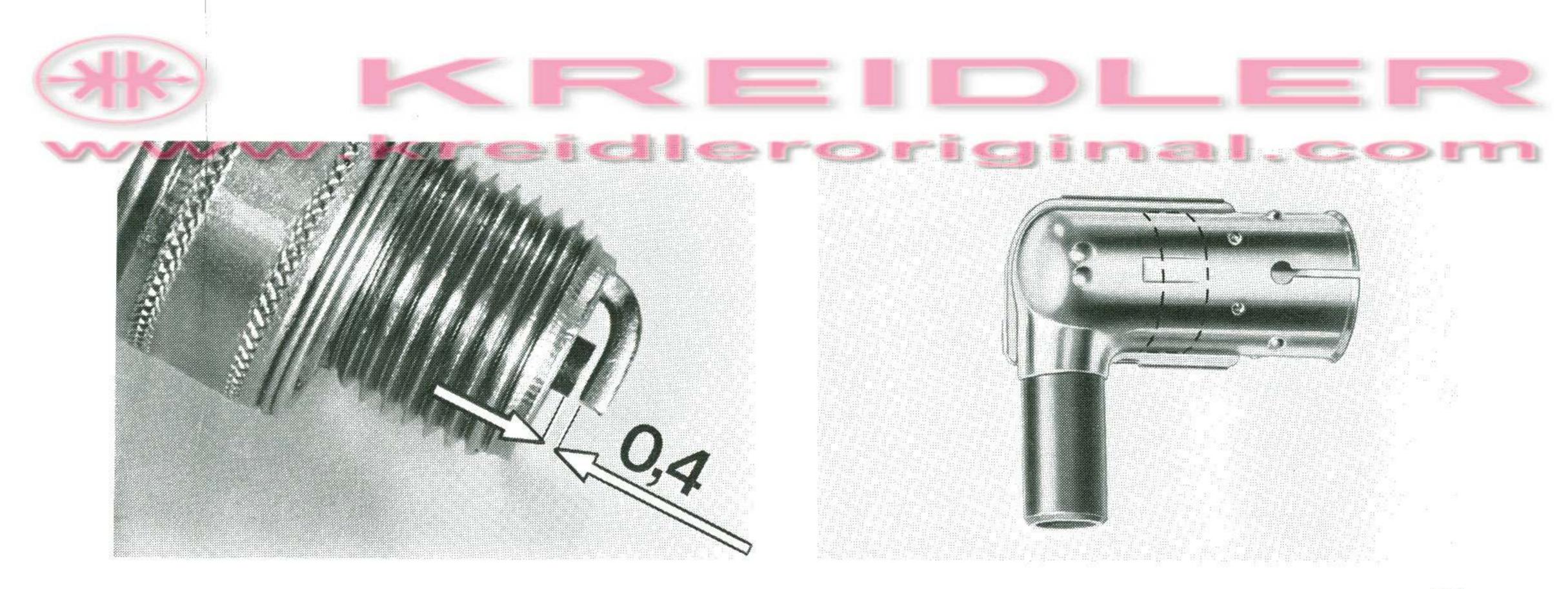
#### 0.4 mm electrode gap

Take a 0.4 mm feeler gage or a piece of sheet metal exactly made to 0.4 mm thickness.

Replacement of the sparkplug after about 3.600 miles is recommended because after such a long time of operation the electrodes are usually worn out.

#### Sparkplug cover

is indispensible – in order to avoid trouble make sure the water protection (indicated by the dotted line inside the plug connector) remains intact when connector or plug are renewed.



## Fuel and exhaust system

#### Cleaning fuel strainer

Remove screw cap and then the fuel valve from the tank. Clean strainer by blowing out. Renew gasket for refitting.



#### Carburetor, airfilter and muffler

Do not change anything in connection with the carburetor. Trying to make improvements would only result in destructing what KREID-LER has successfully installed, through laborious development and test work, to obtain optimal performance data from the Moped engine.

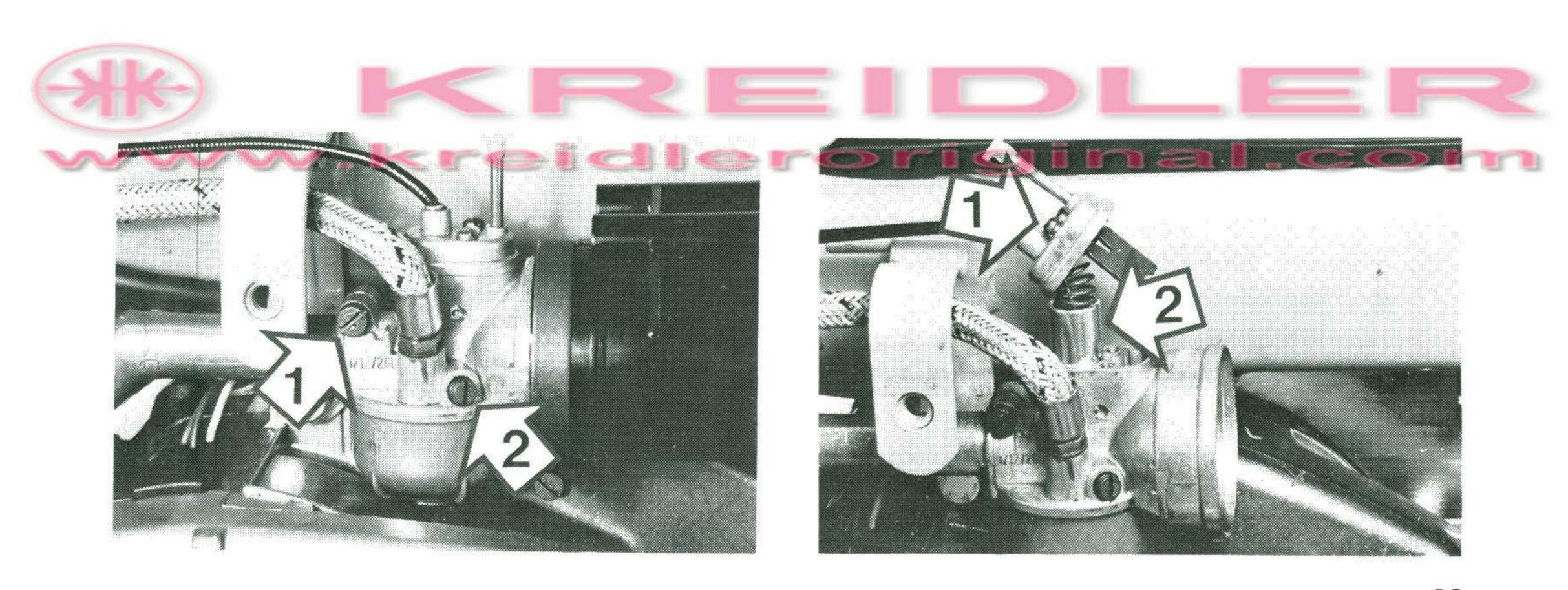
The system of the fuel from the intake at carburetor, engine and exhaust pipe to the muffler end is an extremely complex system with each component being exactly tuned to its specific function. Changes always cause negative results.

#### Removing carburetor

Remove airfilter (see description on page 24). Loosen carburetor binding screw (arrow 1) pull carburetor backward and away from the intake socket. Arrow 2 points to throttle slide adjusting screw.

#### Removing throttle slide

Very seldom required, particularly since the jet needle should remain unchanged – releasing throttle slide: unscrew the two fastening screws (1) of the carburetor cover and pull throttle slide (2) out of the housing.



#### Opening float chamber

Unscrew float cap and remove float: pull pin – do not bend retainer plate; this would change the fuel level.

#### Cleaning jet

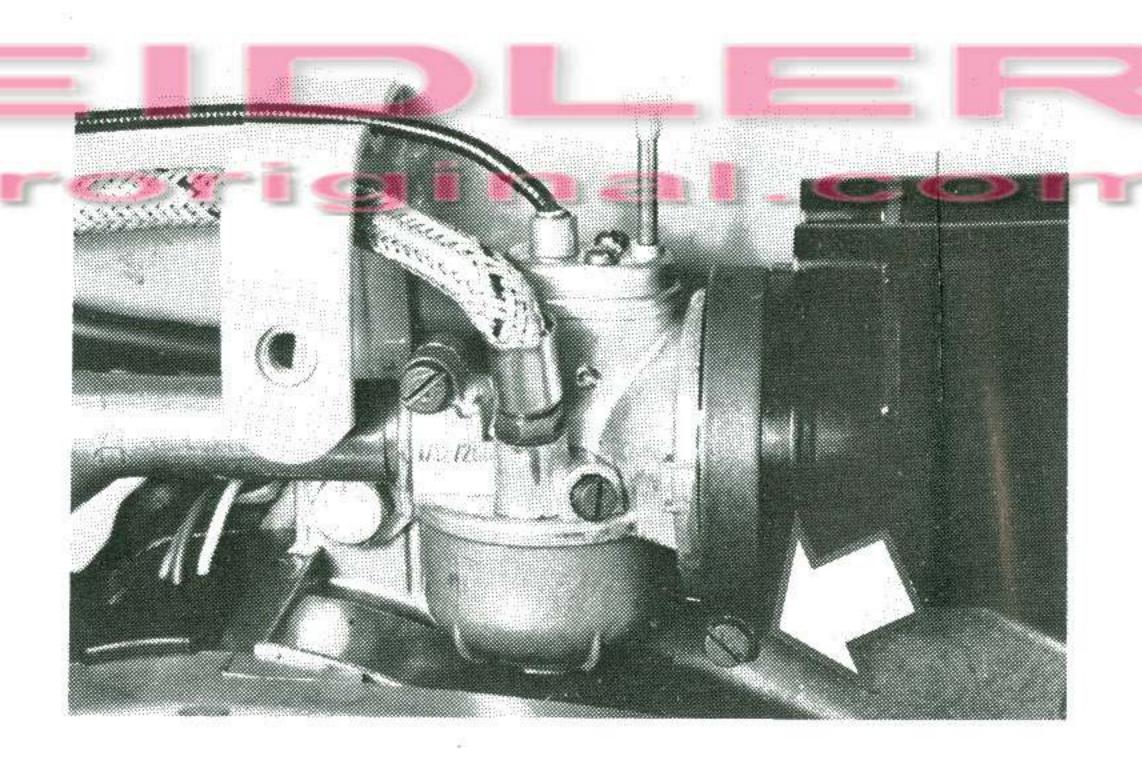
Blow out main jet and needle jet with your mouth or with compressed air. Never try to clean with sharp or pointed items such as needles etc.

#### Adjusting idle speed

The engine must have operating temperature. Screw in throttle cable, set screw as far as possible and the readjust slide set screw with a screw driver. Clockwise: faster; counterclockwise: slower.

#### Removing and cleaning airfilter

Loosen clip on carburetor and pull ai filter from carburetor. Pull chamber cover from intake chamber. The intake filter is cast into the intake chamber and cannot be removed. Clean all parts with gasoline, dry the filter, wet with engine oil, assemble intake silencer, connect to carburetor.



#### Driving without airfilter

would be improper since the engine would deliver less output in the lower and medium speed range. If no air filter is installed, dust and dirt will cause rapid engine wear.

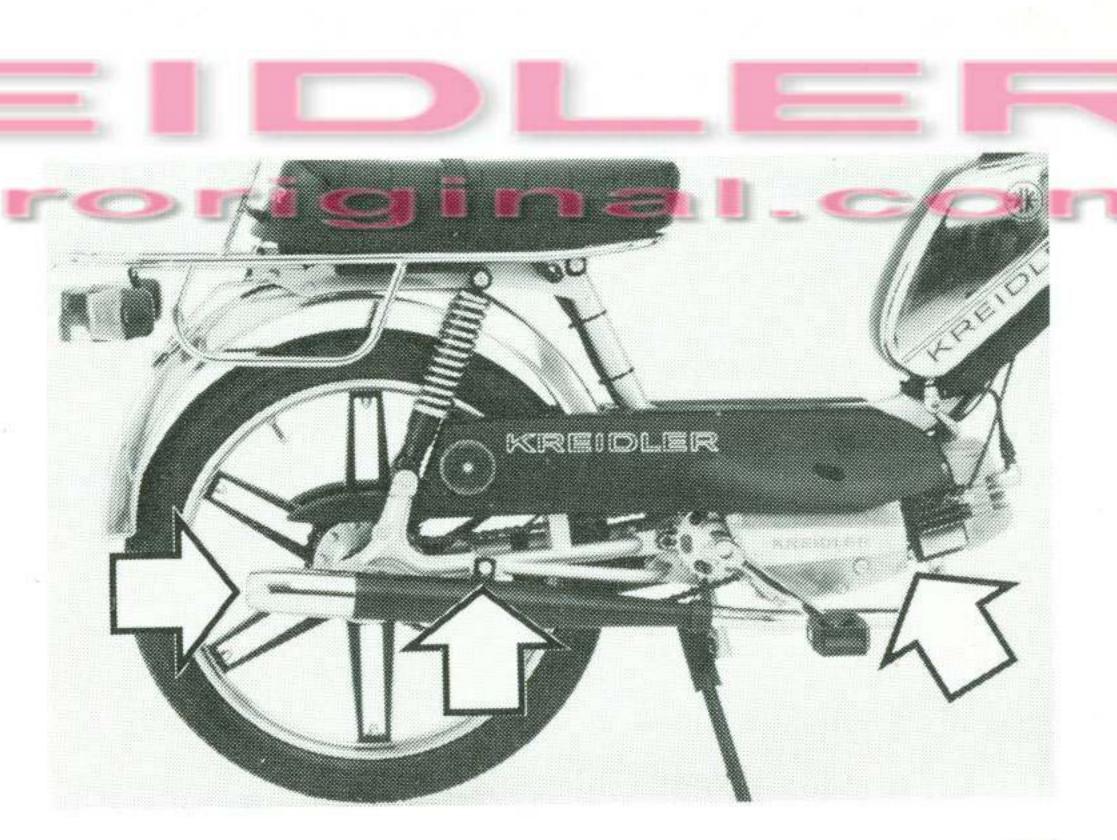
Cleaning muffler

Two stroke engine mufflers become lined with deposits through which the bores in the muffling chambers are becoming smaller thus causing a decrease of the motor capacity. Therefore the muffler system must be regularly cleaned from such deposits.

Remove muffler from vehicle after the clips on the cylinder (arrow 1) and on the muffler (arrow 2) have been loosened.

Pull muffler from exhaust pipe and open muffler: unscrew end cap using a size 10 mm socket wrench and pull out end cap and muffler insert. Remove the deposits from all parts using a screw driver or a triangular scraper. Carefully fit asbestos cords with assembly (for proper sealing).

Burning out of the exhaust system with a welding torch or a blow torch would not be correct because the development of smoke connected with this method would pollute the environment and the chromed parts would loose their shine.



# Drive chain, sprocket wheel, sprocket pinion

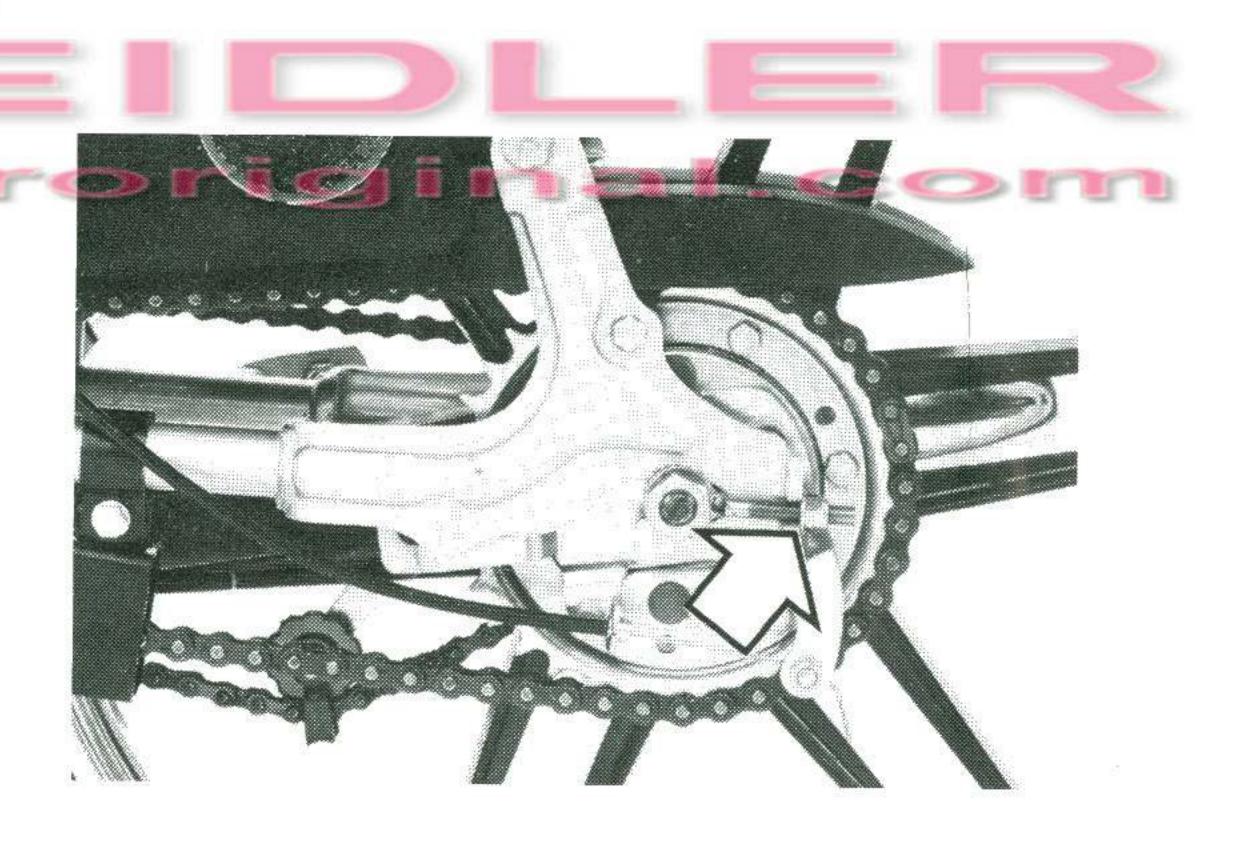
#### Checking chain tension

For checking the tension of the drive chain (on left side of vehicle), place vehicle on kick stand and move chain in the middle of its free length up and down with a screwdriver – 2 cm total play is correct.

**Note:** Rotate rear wheel several times via chain and continuously check chain play. Tension varies in different chain positions. The 2 cm play refer to the tightest position.

#### Applying chain tension

Loosen axle nuts and lock nuts of the chain tensioners on both sides. Tighten adjusting nuts equally until correct tension is obtained. Securely retighten jam nuts of the chain tensioners and the axle nuts.

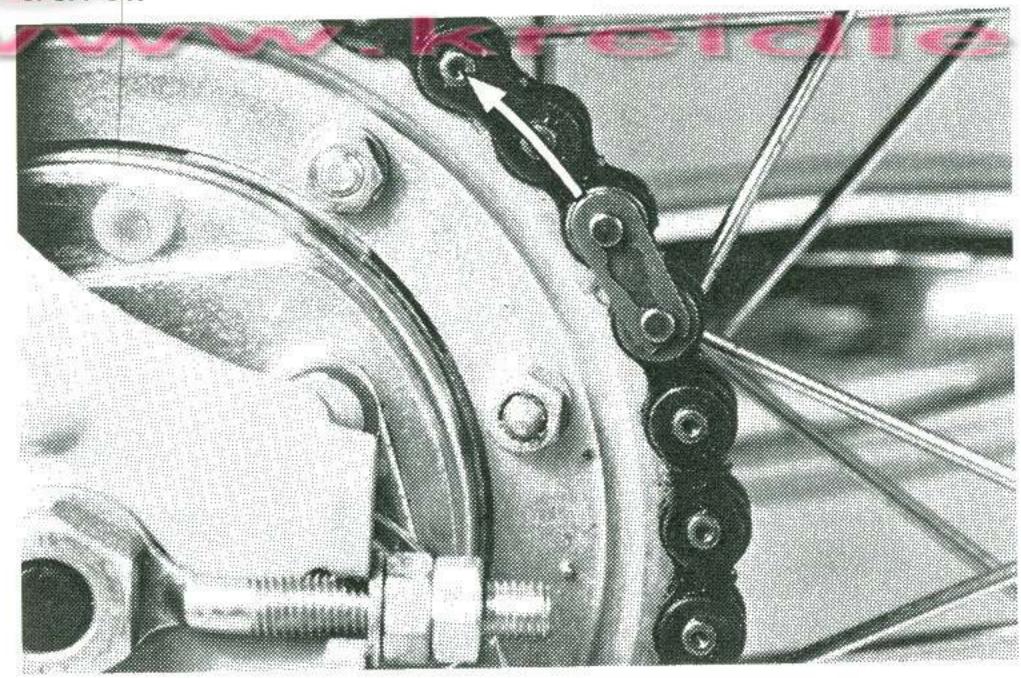


#### Checking wheel track

Place a straight lath against the wheels as high as possible above the floor to determine if front and rear wheel are exactly aligned (run straight in one line) – if not, correct rear wheel position accordingly (maintain 2 cm chaine play).

#### Chain connecting link

The retaining clip is of flat steel; its closed end must always point in direction of chain travel.



#### **Maintenance on Chains**

Refer to the maintenance schedule. Apply chain grease on both chains in regular intervals. Oil is unfit because it is too light-bodied so that it will be thrown off by the centrifugal forces.

Never fit a new chain on worn sprocket wheel and sprocket pinion or a worn chain on a new sprocket wheel or sprocket pinion. Your KREID-LER dealer will be pleased to help in determining the degree of wear.

#### Sprocket wheel and sprocket pinion

Check regularly for wear and replace worn sprocket wheel or pinion.

## **Treadling Chain**

#### Chain tension

Its idler wheel holds the treadling chain tension at a uniform value at all times (chain on right vehicle side).

Treadling chain should be regularly lubricated.



#### Steering

#### Adjusting steering head bearing

Place machine on kick stand – position your-self in front of the handlebar, grasp the telescoping fork at the lower end of the sliding tube with your hands and push and pull alternatively – if backlash is found in the steering head bearing, readjustment is absolutely necessary because the exact front wheel guide depends on it and thus the longitudinal and cornering stability of the vehicle, i. e. driving safety.

Loosen nut (arrow 1) and screw down the knurled threaded cone (arrow 2) by hand or using a pipe wrench.

It is better to adjust for more (not less) backlash in the bearing, because the play is somewhat reduced as soon as the jam nut is tightened.

Correct adjustment is indicated when the bearing is practically free of backlash and still

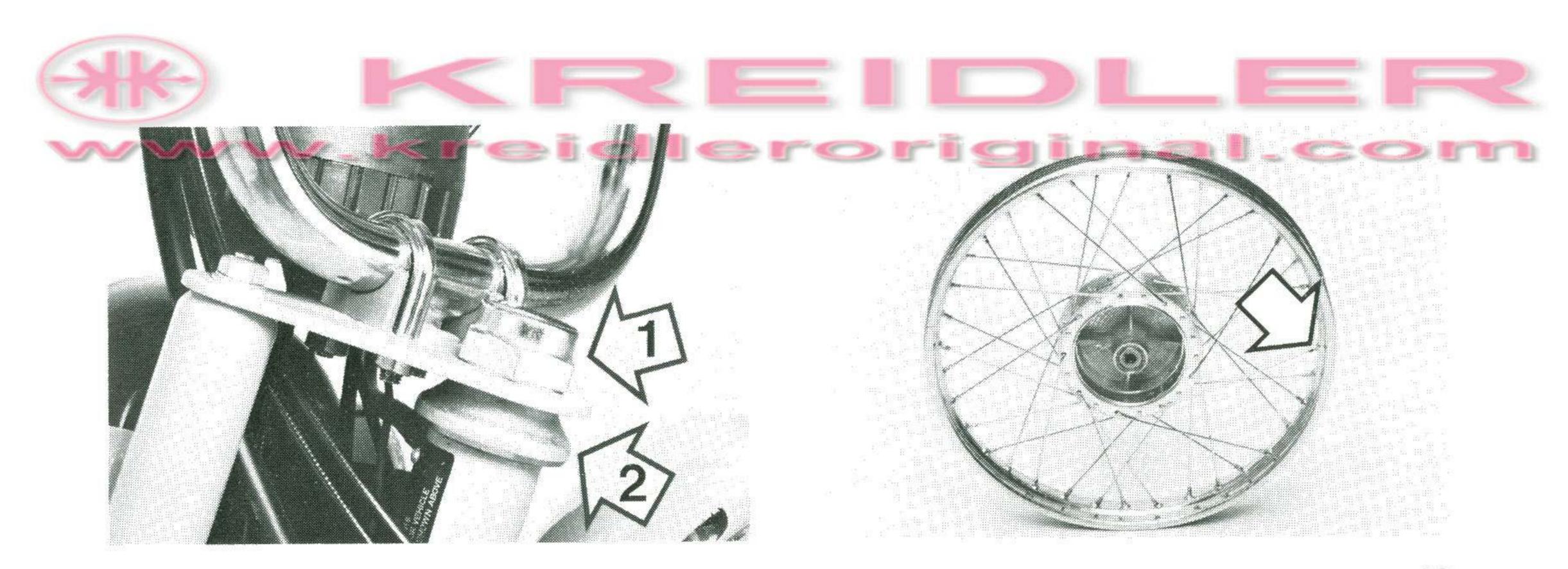
permits easy movement – steering must not jam in any position of the total steering swing – the fork must be easily moving to the right and left end position.

#### **Wheels and Brakes**

#### **Spoke Tension**

#### MP 9 - Wire Spoke Wheel

Have your KREIDLER dealer check the spoke tension – he has a special equipment which prevents lateral or height eccentricity which might occur when the spokes are retightened.

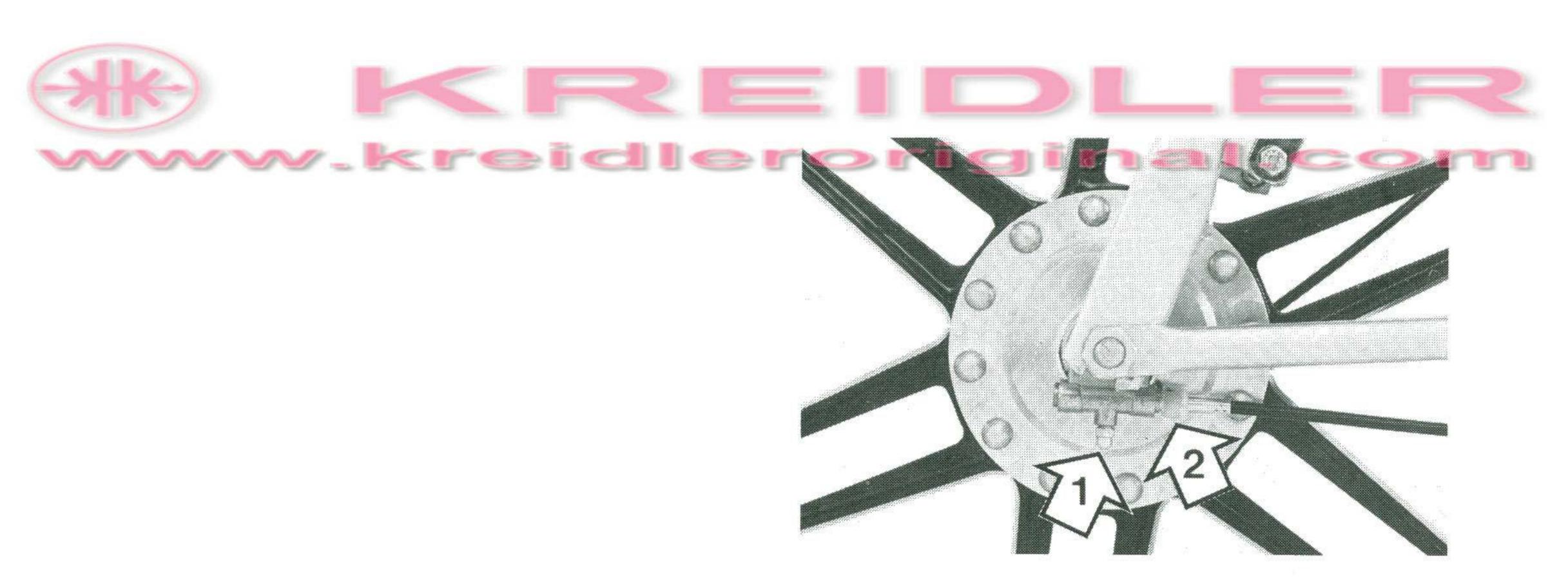


#### MP 19 - Composite wheel

The rim and spoke fastening screws should be regularly checked for tight seating.

#### Lubricating speedometer drive

via lub nipple (arrow 1). Remove speedometer shaft by unscrewing the threaded cap (arrow 2) – never oil or grease the speedometer shaft itself. The lubricant would destruct the speedometer.



#### **Checking brake lining**

is easily done through the inspection holes in the brake covers. The inspection holes (two each on front and rear wheel) are closed by plastic plugs.

Inspect brake lining for thickness and wear. Replace plastic plugs.



#### Maintenance

Pull brake cover (also called brake shoe carrier or brake shield) from the drum – remove dust with a dry brush or blow out in the workshop using compressed air – permit no gasoline or oil on the linings – oil or grease stained linings are unserviceable – do not roughen the linings for improved breaking effect, this would be entirely wrong.

#### Tire pressure

Check while tires are cold – do not check with your fingers or hands use a hand air gage or one of the scaled pressure gages available at any service station and check every time you stop in for gas.

For tire size and type please refer to the technical data at the end of this brochure.

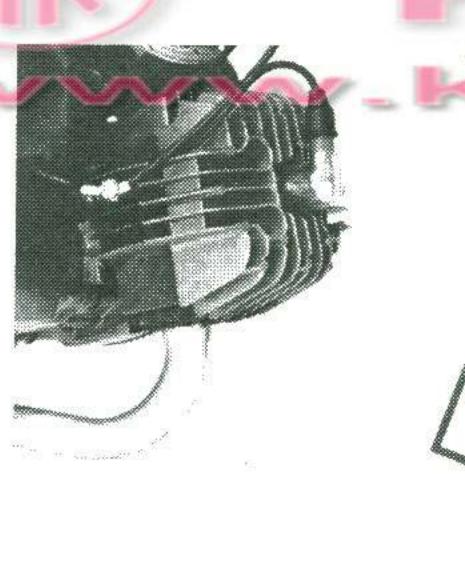
#### Removing front wheel

Unhook brake cable: screw in brake lever adjusting screw on handle bar as fast as possible. Loosen binder screw (arrow 1) on brake lever (on brake hub on right vehicle side) pull out brake cable and remove speedometer cable.

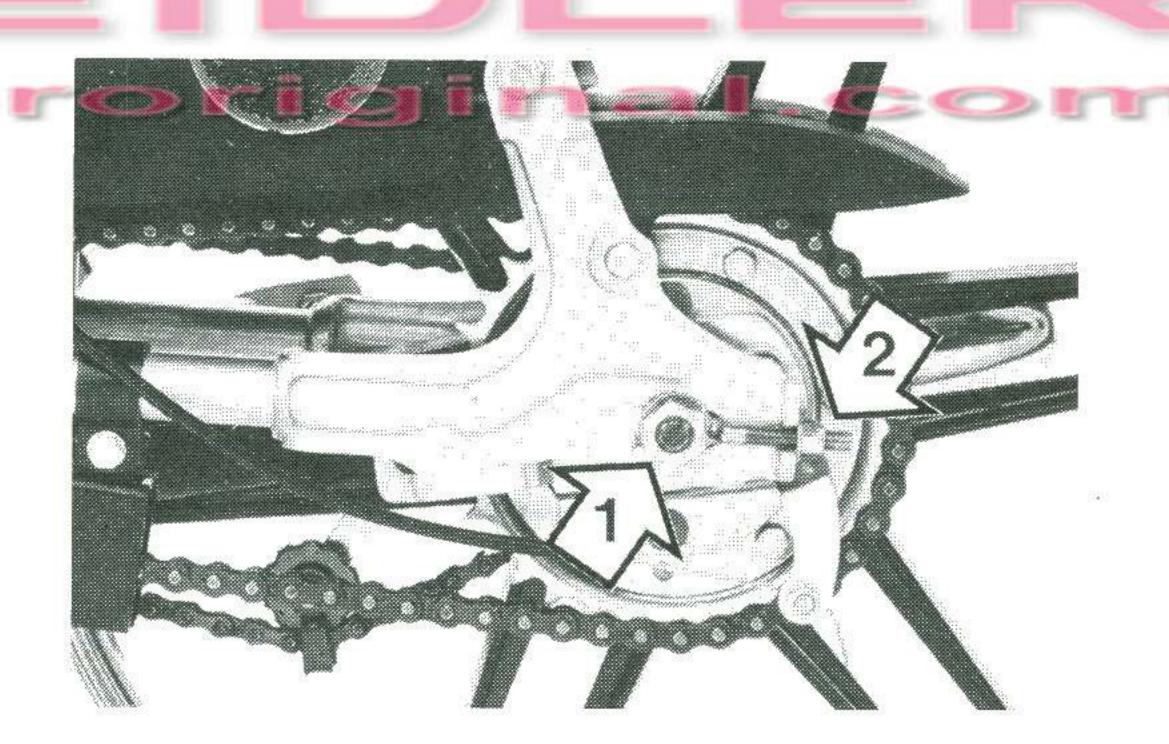
Unscrew axle nuts (arrows 2 and 3), pull off fender brakes in lateral direction, then pull out front wheel in downward direction.

#### Removing rear wheel

Neither drive chain nor tread chain must be opened. Neither must the rear wheel brake cable be removed from the brake hub. Unscrew axle nut, loosen chain tensioner nuts, and remove chain tensioners from rear wheel. Push rear wheel forward and let it slide out of the frame. Pull brake cover from the brake hub and remove drive chain from sprocket wheel and tread chain from free wheeling gear.







## Bowden cables Oiling cables

The cable lube nippels should be regularly oiled.

#### **Adjusting cables**

#### Front and rear wheel brake

Loosen jam nut, unscrew setscrew until you have obtained the desired lever play.

Adjust to suit your own hand size. Allow enough lever play to ensure that your hand does not form a fist when you apply the brake hard. The fingers should always remain stretched to some extent. This is the only way to permit sensitive braking as well as powerful braking action if this should become necessary.



#### Starting clutch cable

For adjusting follow description given for hand brake levers.

#### Throttle cable

For adjusting follow description given for hand brake levers. Permit about 1 mm play in twist grip.



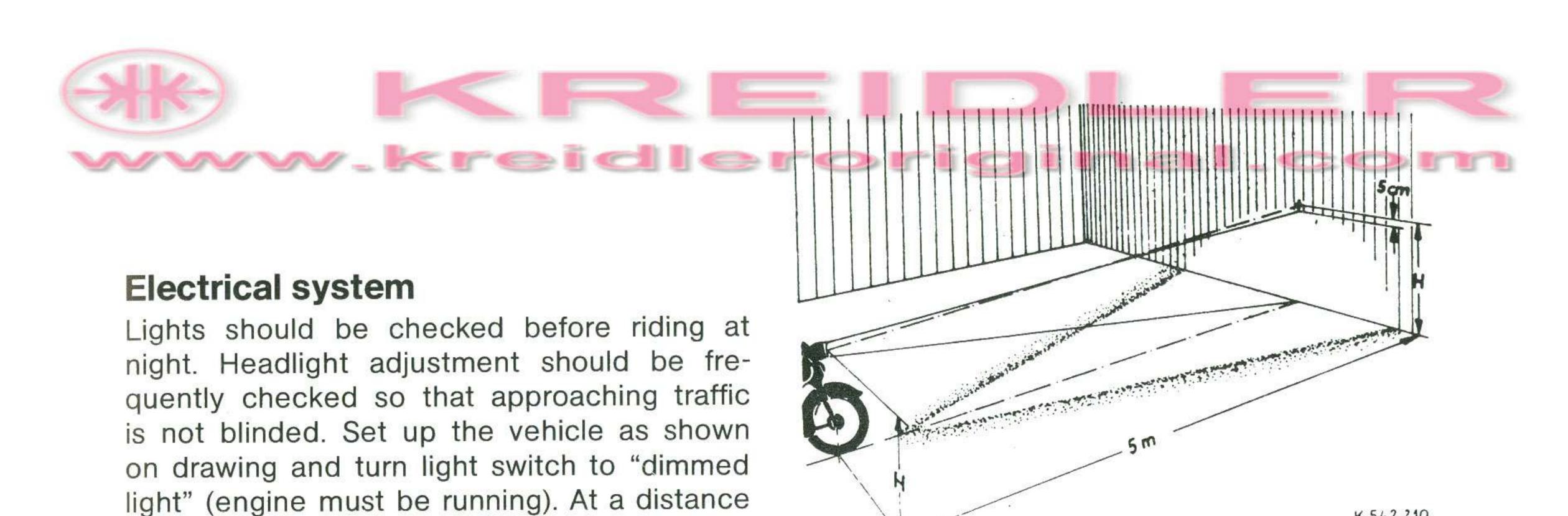
#### Chassis

#### Retighten screws and nuts

All screws and nuts on the chassis should be regularly retightened.

of 5 m the light-dark separation line must be

5 cm lower than the headlight center line. If correction is necessary, loosen headlight mounting screws, adjust headlight, and retighten mounting screws.



K 542 210

## Replacing headlight bulb and control bulb

Open headlight by unscrewing slotted screw and removing lamp insert.

Apply light pressure on bulb to insert same into the socket and turn bulb a few degrees to the left.



## Replacing taillight, brake light bulb

Unscrew the two cross head screws and remove lens. Depress taillight, brake light bulb respectively approx. 2–3 mm, turn to the right or left and remove bulb from the carrier.

1 = brakelight bulb

2 = taillight bulb

## Replacing blinker light

Unscrew slotted screw and remove lens.



Apply light pressure on bulb to insert same into the socket and turn bulb a few degrees to the left.

## Replacing bulb of speedometer lighting

Turn speedometer housing top part so that the recess aligns with that in the bottom portion of the housing. Insert screw drivers into the thus created openings and lift the top portion. Remove bulb socket from speedometer and replace bulb.



# Blinker element with integral flasher dry accumulator and fuse 8 A

The blinker element is absolutely maintenancefree.

Under no circumstances may the four varnishsealed screws be removed. Removal will terminate any warranty. In case of failure, replace blinker element complete.



## Vehicle cleaning

Beside the continuous control of the operational conditions also the regular attendance to the painted, chromed and plastic parts will save you from unpleasant surprises and unnecessary expenditures and ensure that your vehicle maintains its value for a long time.

Wash your KREIDLER Moped regularly since the dirt on the roads and pollution in the air, particularly in industrial areas, attack the surfaces of your vehicle. Use ample cold or lukewarm water and sponge; wash the sponge frequently in clear water to remove the dirt particles in it in order not to scratch the surfaces more than unavoidable. Soak hard dirt spots before washing. After washing apply occassionally a coat of commercially available polish.

Chromed parts may be protected by special chrome protective agents, which is particularly recommended at the beginning of the winter season and after the spring cleaning.

Do not use the above mentioned agents for the engine cowling (plastic). You can buy special plastic cleaning agents, however, the usual plastic cleaners in your household will do as well.

## Operation in wintertime

## **Preparing vehicle**

ensure easy cold start conditions through correct sparkplug heat range, correct electrode gap, replacement of old sparkplug, and perfect setting of firing point – for details refer to section "ignition system" – adjust carburetor to winter operation as described under paragraph "carburetor".

## Reducing tire pressure

does not increase the friction between tire and road surface, however, it impairs the lateral tire guide – accordingly, adhere to the specified tire pressures also in wintertime, see "wheels and brakes".

### Tread depth

Mount tires having at least 2 mm tread depth although the law prescribes 1 mm minimum

tread depth – new tires have 3.5–4 mm tread depth.

#### Cables

disconnect cables of clutch and brake on handlebar and foot brake cable and pour lightbodied oil into the cable hoses, which prevents water from freezin inside and blocking the cables.

#### Road salt

is highly aggressive and attacks metal as well as varnish alike through corrosion – the best solution is to wash the vehicle immediately after arrival at destination protecting the dry vehicle with an anti-corrosive oil from a spray can is okay, but it constitutes no guarantee against the attack by salt.

## Storage

Thoroughly clean the entire vehicle – apply anti-corrosive oil from a spray gun to all bright metal parts as a protection against rust –

painted components may be treated by a wax-containing polish (dull-black paint assumes a slight shine when polish is applied). Close fuel valve while engine is running and wait until the carburetor is empty; this prevents the gasoline in the carburetor from evaporating, while the non-evaporated oil remains in the carburetor and may block bores and jets. The gasoline supply in the tank may be left in it.

Unscrew sparkplug, fill 2-3 cc anti-corrosive oil (e. g. the additive Desolite for two stroke engines) through the plug bore; shift into second gear and rotate engine via the rear wheel so that the protective oil spreads over the internal engine surfaces.

Place vehicle on kick stand so that the weight is off of the tires. Under no circumstances must the air be taken out of the tires; do not store the vehicle for winter with "flat" tires.

## Troubleshooting

## **Engine does not start**

Fuel tank empty or fuel valve closed. Auxiliary

starting device for cold starting was not activated (depress pin).

Jets or fuel valve strainer clogged.

Electrode gap of sparkplug too wide or foreign matter between electrodes (bend to 0.4 mm gap or clean).

Failing ignition system.

For checking fit new sparkplug to plug connector, hold against ground and rotate engine while pulling the flying start clutch lever. If plug does not spark, the ignition system is faulty.

Possible causes for ignition failure: shielded plug connector is punctured by water – ignition cable defective – breaker points oily, dirty or scored – ground connection in short circuit switch.

If the engine does not start it might be possible that the float needle seat in the carburetor is dirty so that fuel can flow into the stopped engine if the fuel valve is not closed.

For starting, close fuel valve and apply "full throttle" while starting. If the engine still does

not start, unscrew sparkplug and operate engine via the pedals without compression by pulling the start clutch lever (may be done by hand). Then mount dry sparkplug and start.

# Engine starts but dies soon after and does not respond to the throttle

Fuel valve is closed; engine runs only until float chamber is empty. Or engine is still cold so that the auxiliary starting device must be depressed once more (open throttle twist grip up to the perceptible stop).

Main jet in carburetor is clogged.

# Engine runs in four stroke cycle and emits smoke through the muffler

Float needle sticks causing enrichment of the fuel mixture.

Float is bent causing incorrect level (see your KREIDLER dealer).

Air filter clogged.

## Motor output decreases

Passages in the exhaust system are sooted (clean). Piston rings are sticking (see your

KREIDLER dealer). Throttle slide does not move up all the way (readjust set screw).

Air filter clogged.

Brakes drag against brake drum (return springs fail to retract brake shoes and bowden cables).

Rear wheel chain stiff or too tight.

Firing point is offset (see your KREIDLER dealer).

### Idling speed is excessively high

Throttle slide sticks (disassemble carburetor, remove abrasives or foreign particle).

Repair bowden cable.

Slide stop screw screwed in too far.

# Engine stalls in idling when headlight is turned on

Electrode gap of sparkplug too wide (bend to 0.4 mm).

Contact breaker offset.

## Engine hesitates at idling speed

Idling speed is too high or too low. Check adjustment.

## **Technical data**

Mo - I	Ped	MP	9 /	Mo-	Ped	MP	19
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<b>Engine</b> Type	horizontally installed single cylinder two stroke engine	
Bore stroke	$1.58 \times 1.55 \text{ in.} = 40 \times 39.7 \text{ mm}$	
Piston displacement	3.045  cub. in = 49  cc	
Continuous output *	17 mph, 20 mph, 25 mph, 30 mph *	
with rpm at approx.	4,250	
Compression ratio	10:1	
Cooling	air cooled	
Cylinder with piston	aluminium hard chrome plated	
Cylinder head nuts	torque 0.9–1.1 kpm ** = 6.5–7.9 foot-pounds	
Power transmission (gearbox)	2-speed automatic	
Oil capacity	capacity 330 cc (1/3 quart) KREIDLER-Special-Automatiköl or Mob ATF 210 resp. Ford Specification 2 P-630 822 (M 2 C – 33	

<sup>\* =</sup> depending on State law
\*\* = kpm = kilopondmeter

Mo - Ped	MP9	/ Mo -	Ped	MP	19
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Primary drive	1st gear 1:7.67 2nd gear 1:23	
Final drive	1st gear 1:4.83 2nd gear 1:14.5	
Drive chain	1/2" x 3/16", 102 links including connecting link	
Front sprocket	12 teeth	
Roar sprocket *	36 teeth	
Ignition system Type	BOSCH fly wheel magneto	
Capacity	6 V 27 / 15 W (SAE N 70) - MP 9 / 6 V 27 / 10 W (SAE W 70) - MP 19	
Firing point	1.2-1.4 mm before top dead center (TDC) = 18-19° crank angle	
Sparkplug	Bosch W 175 T 1, Beru 175/4, Champion L 86	
Electrode gap	0.4 mm to 0.5 mm	
Carburetor Type *	Bing 1/12/260 (1 barrel, 12 mmø)	
Main jet *	68 *	
and the second s		

<sup>\* =</sup> depending on State law

	Mo - Ped MP 9 / Mo - Ped MP 19	
Needle jet seat	size 2.17	
Needle jet	size 46-042 altitude setting No. 2	
Throttle slide	size 22-140-10	
Fuel Tank capacity	5.6 ltrs. (1.48 US gal.), including 0.6 ltr. reserve	
Lubrication	50:1 (2 %) gasoline/oil mixture	
Oil	self-mixing two stroke oil	
Fuel consumption	approx. 1.95 ltr./100 km = 120 m.p.g.	
Chassis	50:1 (2 %) gasoline/oil mixture	
Frame	steel tubular frame	
Suspension front	teleskopic	
Suspension rear	swinging arm with shock absorber	
Wheels and brakes Wheels Chromium-plated steel with spokes (MP 9) KREIDLER composite wheel (MP 19)		
Rims, front and rear	size 1.20 x 17 (MP 9) / 1.60 x 17 (MP 19)	
Tire, front and rear	size 2.25 x 17	
Tire pressure, front/rear	1.6/2.5 atmospheres = 22.7/35.5 psi	

Mo - P	ed MP	9 / Mo	- Ped	MP	19
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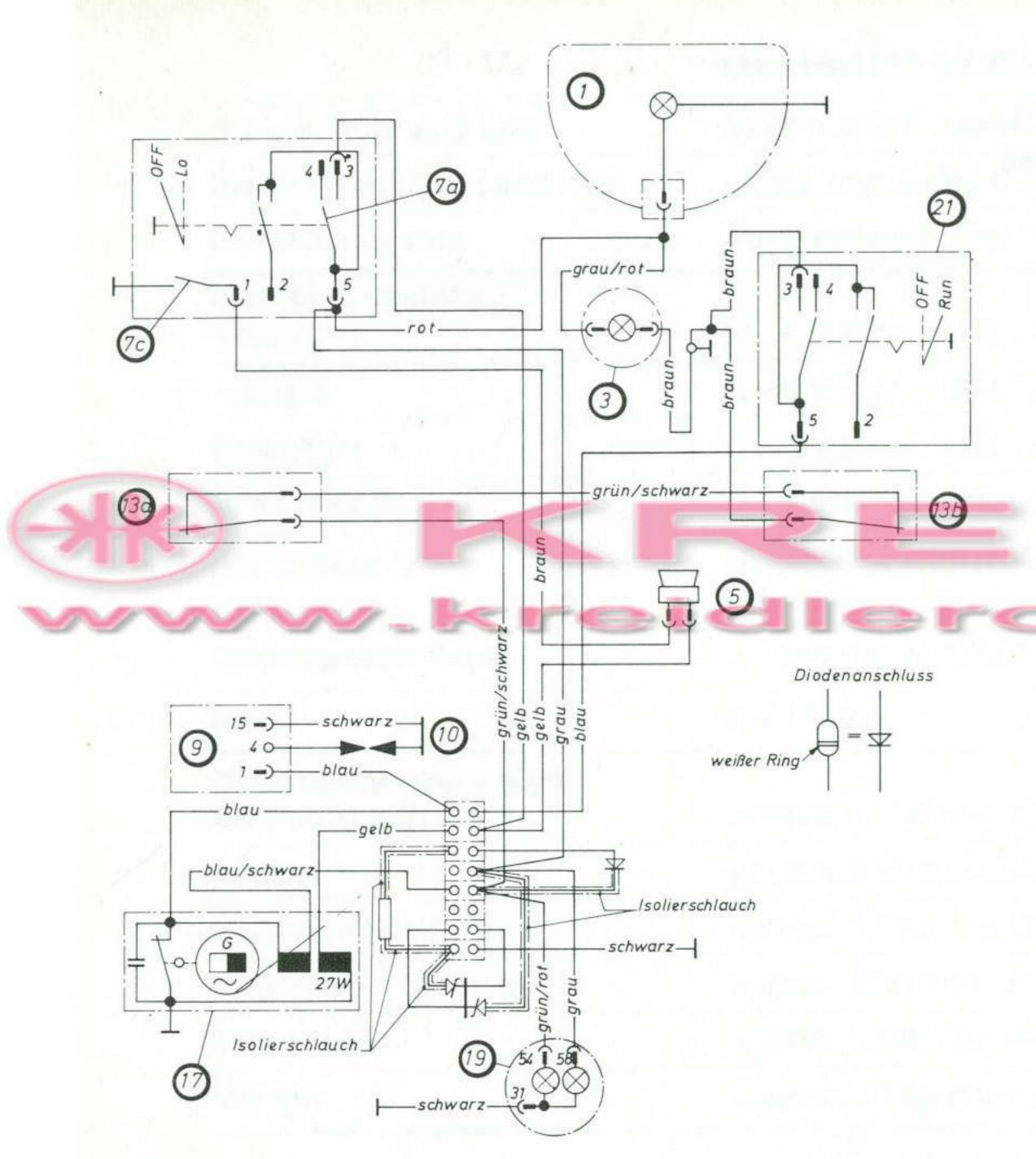
Brakes, front and rear	31.5 in. drum diameter, hand operated		
Brake linings front and rear	glued, min. lining thickness 2 mm		
Brake lining area	front and rear total 12 sq. in.		
Electrical system Headlight	RL 6 V 21 W DIN 72601		
Taillight	G 6 V 5 W DIN 72601		
Brakelight	G 6 V 10 W DIN 72601		
Blinkerlight	G 6 V 10 W DIN 72601 (MP 19)		
Blinkerelement	ULO 80164 with integral flasher, dry accumulator and fuse 8 Ampere		
Speedometer light	J 6 V 0.6 W DIN 72601		
Horn	6 V 18 W		
Dimensions and weight Overall length	approx. 1.730 mm (68-69.5 in.)		
Width	approx. 610 mm (24.1 in.)		
Height (unloaded)	approx. 1.010 mm (39.76 in)		
Seat height (unloaded)	approx. 800 mm (31.49 in.) adjustable		
Wheel base	approx. 1.135 mm (44-46 in.)		
Weight	approx. 49 kg (110 lbs.), gasoline incl.		



## Accessories for later mounting

- 9:Tool kit lock with key; leg shield; saddlebag mount; saddlebag; luggage basket
- MP 19:Leg shield; saddlebags





## Wiring diagram - MP 9

1. Headlight

bulb RL 6 V 21 W DIN 72601 bulb J 6 V 0,6 W DIN 72601

3. Speedometer

5. Horn

7. a) Light switch

7. c) Horn button

9. Ignition coil

10. Spark plug

13. a) Brake light switch left13. b) Brake light switch right

17. Magneto generator

19. Composite tail-brake-license plate light blub for brake light: G 6 V 10 W DIN 72601 blub for taillight: G 6 V 5 W DIN 72601

21. Ignition switch

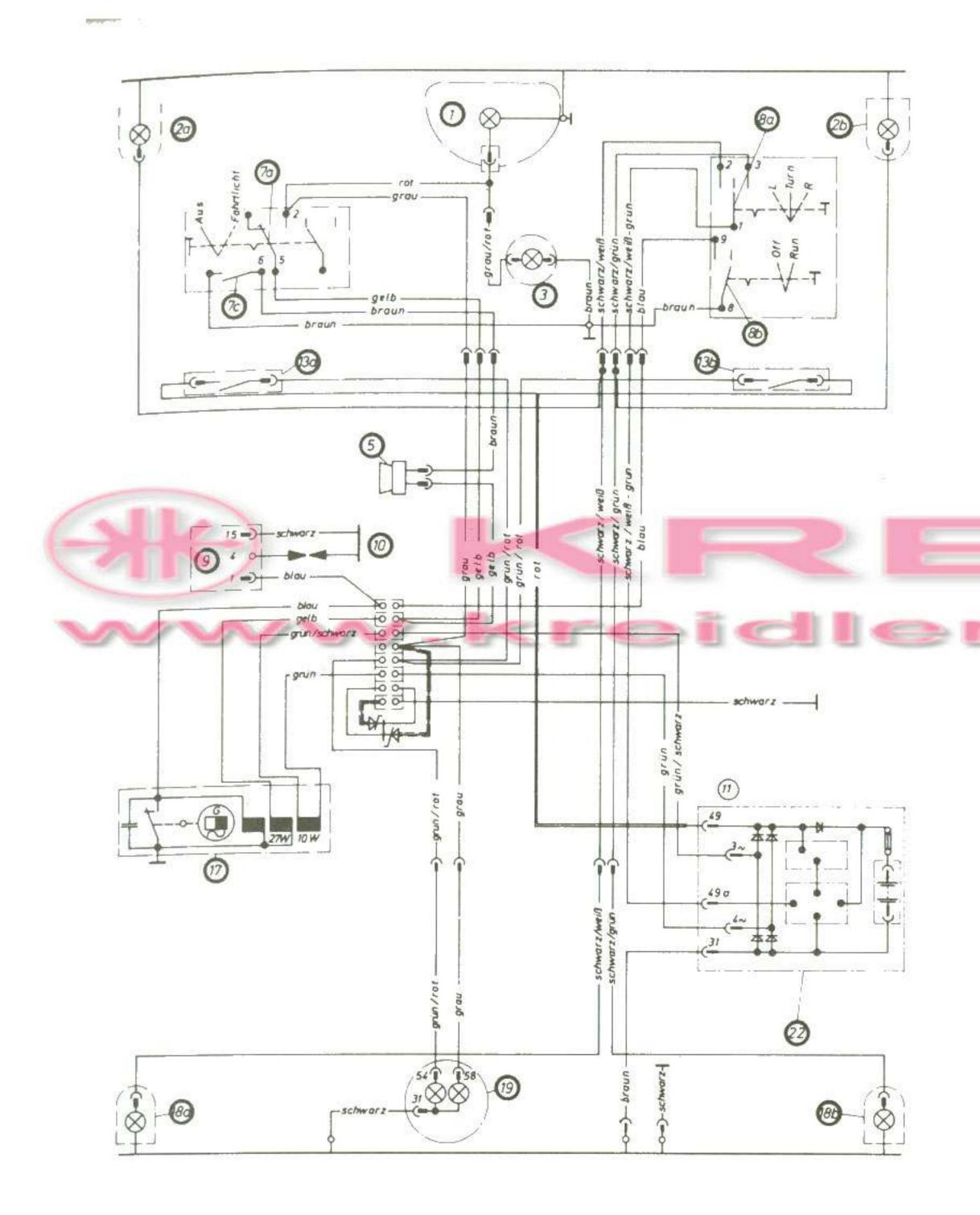
blau = blue

blau/schwarz = blue/black = brown braun

= diode conection Diodenanschluß

gelb = yellow = grey grau = grey/red grau/rot = green/red grün/rot = green/black grün/schwarz = insolating hose

Isolierschlauch = redrot = black schwarz = white ring weißer Ring



## Wiring diagram - MP 19

1. Headlight

2. a+b)

bulb RL 6 V, 21 W, DIN 72601 Blinkerlight front left and right bulb G 6 V, 10 W, DIN 72601 bulb J 6 V, 0,6 W, DIN 72601

Speedometer
 Horn

r

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7. a) Light switch 8. a) Blinker switch

ch c) Horn button itch b) Ignition switch

9. Ignition coil

10. Spark plug

13. a+b) Brake light switch left and right

17. Magneto generator

18. a+b) Blinkerlight rear left and right bulb G 6 V, 10 W, DIN 72601

19. Composite tail-brake-license plate-light bulb for brake light: G 6 V, 10 W, DIN 72601 bulb for tail light: G 6 V, 5 W, DIN 72601

22. Blinkerelement with integral flasher, dry accumulator and fuse 8 Ampere

Aus = off blau = blue braun = brown Fahrlicht = light on gelb = yellow grau = grey grau/rot = grey/red grün = green grün/rot = green/red

grün/schwarz = green/black rot = red schwarz = black

schwarz/weiß = black/white schwarz/grün = black/green

schwarz/weiß-grün = I

= black/white-green