

# MagnumII//KI

ownerss Manua

## **Dear Puch Owner**

This is your riding, maintenance and warranty guide. By following the instructions described in this booklet, we at Puch know you will enjoy many miles of pleasurable Moped Riding.

Should a need ever exist for parts or service, simply contact your Puch dealer. He also has available for your purchase a Service Manual under the part Nr. 907.2.71.894.5 0180

Thank you for joining the Puch family, please ride safely and have fun.

Steyr Daimler Puck of America Corporation

P.O.BOX 7777 (

Greenwich, Ct. 06830

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### **THE WARRANTY** – Terms & Conditions

Subject to the terms set forth below, the Puch motorized bicycle is warranteed to be free from defects in material and workmanship for a period of 6 months from the date of original consumer purchase. While under this warranty, Steyr Daimler Puch of America, hereafter SDPA, will, at its descretion, replace or repair without charge, any product or part which an authorized service representative determines is defective in material or workmanship.

This warranty applies to the original consumer purchaser only.

This warranty gives the original consumer purchaser specific legal rights. The original consumer purchaser may also have other rights which vary from state to state

### EXTENT OF WARRANTY COVERAGE

The warranty will not be extended to any machine that has been subject to mis-use, negligence, alteration, use of non-authorized spare parts, improper maintenance (including improper fuel mix ratio, lack of oil, or use of poor quality oil) or modification of assemby. Additionally, this warranty will not apply if the machine is damaged by fire, flood, accident, acts of God or any other cause of a similar nature beyond SDPA's control.

Under no circumstances will SDPA be liable for damages due to loss of use, loss of business or profits or for any other incidental or consequential damages. Some states do not allow the exclusion or limitation or incidential or consequential damages, so the above limitation may not apply.

This warranty will be null and void if:

- 1. Any part of the serial numbers are removed, defaced or altered;
- 2. If any unauthorized modification or alteration is made;
- If any unauthorized or non-standardized spare part is installed;
- If any maintenance or repair is performed during the warranty period by anyone other than an authorized Puch Dealer.

### EXCLUSIONS:

Normal wear parts are excluded from this warranty. Normal wear parts include: Tires, tubes, spark plugs, brake linings, clutch hub, chains, spokes, sprockets, ignition points, condenser, brake cables, throttle cable, air filter.

Routine maintenance.

No one has the authority to orally change the terms, conditions or exclusions of this warranty or make any representations or express warranties other than those contained here.

SDPA is proud and confident of its dealers and products, and wants to assure that each new Puch owner receives full satisfaction. In the event satisfaction is not obtained at the dealer level however, the original consumer is invited to contact SDPA directly at P.O. Box 7777, Greenwich, Connecticut 06B30

### WARRANTY REGISTRATION

The Warranty Registration form should be completed by the dealer and the consumer purchaser at the time of sale.

Part 1 shall be kept by the selling dealer.

Part 2 should be kept by the original purchaser in his/her possession. ANY CLAIM MADE UNDER THIS WARRANTY MUST BE ACCOMPANIED BY PART 2 OF THE WARRANTY REGISTRATION FORM.

Part 3 which is self-addressed and stamped, must be mailed to Steyr Daimler Puch of America Corporation, P.O. Box 7777, Greenwich, Connecticut 06830 not later than ten (10) days after purchase of vehicle.

All information on the Form must be written legibly. The serial numbers on the Registration Form must agree with those on the Moped.

#### A) SERIAL NUMBER LOCATION

The engine number is stamped on top of the right crankcase half.

The specification plate is secured to the steering head.

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The frame serial number is stamped on the steering head, just above of the vehicle identification number plate.

P7511

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IMPORTANT! Write down kay-number at once. This saves time, money and annoyance if the keys are tost.

My key number is

8

#### **B) OPERATING CONTROLS**

The positions of the controls are shown in the enclosed technical data sheet.

Following some operating controls described in detail:

#### Locking and unlocking your moped

To lock, move the handlebar to the right. Insert key into lock. Turn key to the left, push in and turn key to the right. Remove key.

Unlock in reverse order.

#### Fuel tank filler cap

To open, turn filler cap counter clockwise.





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#### **Fuel valve**

The fuel valve is located on the left side of the fuel tank. The positions are clearly indicated on the tank.

In the event you should run out of fuel, the reserve position should give you adequate range to get you to a filling station. Always turn the fuel valve to the "Off" position when the moped is not in use.



#### Carburetor

- The primer is operated by depressing the black rod extending through the left engine cover.
- The choke is operated by depressing the metal thrust pin which extends upward toward the opening in the left engine cover.

#### Air pump and tools

The air pump is located on the left side of the luggage carrier. The tool kit is stored behind the cover in the rear of the seat.



#### **Brake levers**

The brake control levers are mounted on the handlebar.

Left (1) lever controls the rear wheel brake. Right (2) lever controls the front wheel brake.





#### **Starting lever**

The starting lever is located on the left side of the handlebar and is used for starting the engine.

Please refer to operating procedure on page 17.

#### Light and ignition switch

The Magnum MK II has a two step combination key switch located on the right top side of the instrument panel.

A key is needed for switching.

Fully to the left – ignition and lights off Step 1 to the right – ignition on Step 2 to the right – ignition and lights on

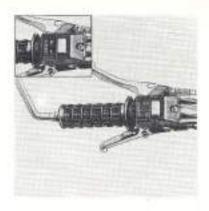


#### Horn button/Light switch and horn button

The <u>Magnum MK II</u> has a two function switch located on the left side of the handlebar which incorporates the (red) horn button and the directional light switch.

The Magnum MK II is pre-wired for the use of a turn signal kit (p/nr. 321.1.54.890.9) which is available for purchase through your PUCH dealer.

The <u>Magnum II</u> has a two function switch located on the left side of the handlebar which operates the lights and horn. The thumb lever on the end of the switch activates the lights and the small (red) push button operates the horn.



#### Engine stop switch

This two position thumb switch is located on the right side of the handlebar. The center position, marked RUN, is used to start and run the engine. The lower positions are marked OFF and are used to interrupt the ignition, which stops the engine.

#### NOTE

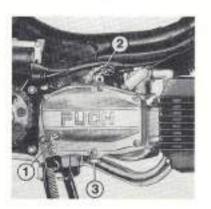
The Magnum MK II has an igniton switch also - please refer to page 12.





#### **C) TIRE PRESSURE**

Recommended tire pressure Front 26 psi (1.8 bar) Rear 32 psi (2.25 bar)



#### D) OIL, GAS/OIL MIXTURE Checking transmission oil level

The oil level control screw (1) on the 2-speed automatic, is located on the clutch cover. The oil filler hole (2) is trough the top of the right crankcase half. The drain plug (3) is located on the lower portion of the right crankcase half.

91/2 fl. oz. (280 cc) of ATF "TYPE F" is used for refill.

#### CAUTION

The moped must be upright when filling oil. Do not overfill. Leave oil level control screw removed until excessive ATF drains off. Oil change after the first 300 miles of operation is highly recommended.

#### Filling up with two stroke mixture

#### Gas/oil mixture on model without oil pump - Magnum II

The Magnum II engine must be run with a gas/oil mixture (regular gas). The recommended mixing ratio is 50 : 1 when using special Maxi Mix two stroke moped oil. If another oil is used please refer to the fuel mixing chart.

NOTE: DO NOT USE UNLEADED GASOLINE 50 : 1 OIL MIXING TABLE WITH PUCH MAXI MIX To 5 gallons gasoline add 12 fl. oz. (355 cc) oil To 1 gallon casoline add 2,4 fl. oz. (71 cc) oil To 1 quart gasoline add .6 fl. oz. (18 oc) oil



#### NOTE

To reduce carbon build-up within the engine and exhaust system, we strongly recommend the use of the special 2 stroke MAXI MIX oil, 50 : 1 ratio. However as an emergency measure, a regular 2 stroke oil can be mixed in a 25 : 1 ratio as shown below.

25:1 OIL MIXING TABLE WITH REGULAR TWO STROKE OIL

To 5 gallons of gasoline add 24 fl. oz. (710 cc) oil To 1 gallon of gasoline add 4.8 fl. oz. (142 cc) oil

To 1 quart of gasoline add 1.2 fl. oz. (36 cc) oil





#### Using cup to measure gas/oll mixing ratio

#### MAGNUM 1) (without oil pump)

When measuring oil for the gas/oil mixture, use one cupful of Maxi Mix to one gallon of fuel.

NOTE: When using other grades of 2 stroke oil, please refer to previous page.



#### MAGNUM MK II only (with oil pump)

Use pure regular grade gasoline only. Check oil level in the oil tank each time you refuel your machine.

#### CAUTION

If oil level in oil tank drops to half, top off with Maxi Mix. Should you notice that no oil is passing through oil feeder hose, although sufficient oil is in tank, stop engine. Drain gas and refuel with gas/oil mixture. See Oil Mixing Table on page 15.

#### WARNING

NEVER REFUEL WITH THE ENGINE RUNNING! DO NOT SMOKE OR ALLOW OPEN FLAMES OR SPARKS IN THE AREA, WHERE YOUR MOPED IS REFUELED AND/OR WHERE GASOLINE IS STORED!

#### E) OPERATING INSTRUCTION

- 1. Prop the moped on its stand.
- 2. Unlock fork.
- Magnum MK II only. Turn on ignition Ist step to the right on the switch.
- 4. Turn fuel valve to the ON position.
- 5. Be sure that the engine stop switch is in the RUN position.
- If engine is cold, depress the choke and depress the primer button on the carburetor until fuel drips from carburetor.

CAUTION: After completing step 6 do not open the throttle control, as this will deactivate the choke. After the engine has started and warming up, open throttle gently to the full position briefly. This will disengage choke. Avoid racing engine.

- 7. Keep both hands on the handlebar with the weight of the moped centered on the front wheel. Apply the front brake and fully depress the starting lever located on the left side of the handlebar. Position the pedal approx, parallel to the chain guard. While holding the starter lever, push the pedal to start engine.
- 8. Alternate starting method:

The moped may also be started by pedalting as a bicycle. When momentum has been gained, pull the start lever and gently open the throttle. Release the start lever after the engine starts.







#### Throttle

The speed of the moped is controlled with a twist grip on the right side of the handlebar. To accelerate twist the throttle towards you; to decelerate release slowly.

NOTE: Depending on engine RPM, cluch will engage or disengage automatically. Shifting into or from 2. gear, depending on engine RPM and road speed, will occur automatically also.

#### Braking

To slow down, release the throttle control and apply equal pull to both brake levers. Application of both brakes at the same time is essential to prevent premature brake wear and/or loss of vehicle control.

CAUTION: Be alert when riding on wet or sandy surfaces. Loss of traction between tire and road can occur under these conditions. Be careful when braking, turning or accelerating under adverse conditions.



#### To stop and park

Release the throttle and simultaneously apply both brakes to stop. Switch off engine with stop switch. Magnum MK II only. Turn off ignition and remove key. Close fuel valve.

.

Rest moped on stand and lock.

#### Securing your moped

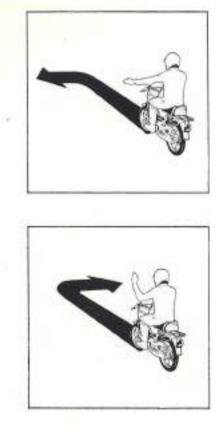
Please refer to page 9.

A high security locking device is recommended. See your Puch dealer for advice.

#### WARNING

After the engine has been run, the exhaust pipe and muffler will become hot, avoid contact with them.





#### F) RIDING INSTRUCTION

- It is suggested to wear bright clothing, utilize eye protection and proper shoes or boots when riding your moped.
- Wearing a helmet is optional in most areas. See your PUCH dealer for advise.
- Be sure to switch on headlight at low visibility and/or where required by law.
- The moped is designed to carry ONE person. Do not carry a passenger or very heavy cargo. Approved PUCH saddle bags and baskets are available through your dealer.
- Obey all traffic regulations. Use hand signals when turning or changing lanes. Please respect property of others and ride carefully. Keep your feet on the pedals at all times. Keep the pedals level, especially on turns.
- After reaching maximum speed, reduce the throttle opening to 3/4. While the reduction in speed will hardly be noticeable, fuel consumption however will be considerably reduced.
- 7. Closed throttle will slow down moped when riding downhill.
- To ensure engine lubrication on long downhill rides, open throttle occasionally.

#### **G) TROUBLE SHOOTING**

Engine will not start or stops running

#### Cause

#### Remedy

- 1. Fuel valve closed
- 2. Fuel tank empty

- 3. Stop switch in "Off" position
- 4. Spark plug is fouled
- 5. Spark plug defective
- Ignition cable has worked loose from spark plug
- 7. Engine is too cold
- 8. Engine is flooded
- Fuel valve is clogged or main jet is clogged

Open fuel valve or switch valve to reserve position

Switch valve to reserve or refill tank with gas/oil mixture (Magnum II) On model with oil pump use pure regular grade gasoline (Magnum MK II)

Switch to "RUN" position Clean spark plug or replace Replace Note: Spark plug gap .016-.020 in (0,4-0,5 mm) Reconnect it to spark plug

Apply choke Clean spark plug Have it cleaned at your Puch dealer

### Poor Performance

#### Cause

- 1. Choke working all the time
- 2. Exhaust clogged
- 3. Spark plug defective or fouled
- 4. Clutch slips
- 5. Air filter is clogged
- Fuel mixture incorrect

#### Remedy

Disengage it by opening throttle fully Have dealer clean exhaust Clean or replace it See your Puch dealer Clean air filter

Drain tank and refuel with correct mixture Note: see mixture chart on page 15

Please refer all questions, you may have about your Puch, to your authorized Puch dealer. He is trained and qualified to properly service your machine and can best advise you on its maintenance and care.

#### H) OWNER MAINTENANCE

#### Spark plug

To check if plug is functioning properly, proceed as follows:

Disconnect plug wire from plug Unscrew plug Reconnect plug wire to plug and ground same on cylinder head

WARNING ENSURE THAT NO FUEL IS ON WARNING ENGINE AND/OR FLOOR WARNING BEFORE PROCEDING

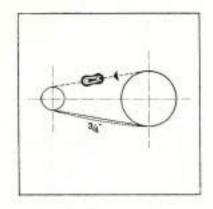
Continue as if starting engine and check for a strong blue spark at electrode If no spark, clean or replace spark plug Note: Gap .016-.020 in. (0.4-0.5 mm)



#### Recommended spark plugs

Bosch NGK Champion 1 hp W 10 A (W 95 T 1) B-4H L 90 1,5 hp W 7 A (W 175 T 1) B-6H or B-6HS L 86 2 hp W 7 A (W 175 T 1) B-6H or B-6HS L 86

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#### Chains

Engine drive-and pedal chain should be kept clean. Every few hundred miles wipe chains thoroughly clean with a cloth. Lubricate with chain lubricant, or oil SAE 90.

Always keep chains properly tensioned. The proper slack of the drive chain should be <sup>3</sup>/<sub>4</sub>".

To adjust drive chain, loosen the axle nuts and tighten or loosen the adjuster nuts. Once chain is properly adjusted, tighten the axle nuts. Make sure that wheel is properly aligned.



If pedal chain tensioner catches or travels roughly as pedals are operated, realign tensioner so chain travels smoothly.

#### NOTE

Always keep brake cables properly adjusted and lubricated to ensure safe riding. The play in the brake levers should not exceed 1" after adjustment.

#### I) SUGGESTED MAINTENANCE AND LUBRICATION CHART

A regular maintenance and lubrication schedule will help to ensure a long, useful life for your moped. Please refer to the mileage and lubrication chart for detailed information.

NOTE: Above mileage schedule applies to moped used on dry paved surface. If used in wet, muddy or sandy area, maintenance intervals should be more frequent. Always check controls and lights

before using your moped.

\*) Hydraulic front fork - Magnum MK II

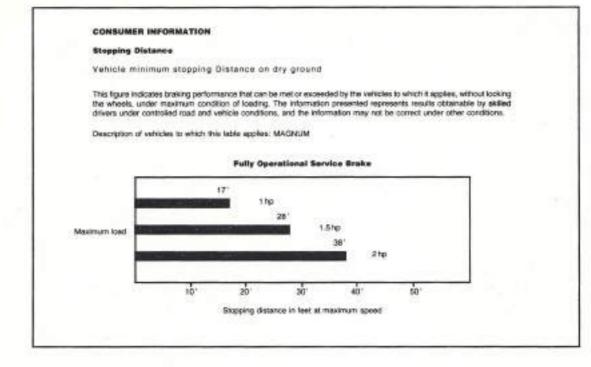
#### Frequency

First | Every 300 miles | miles

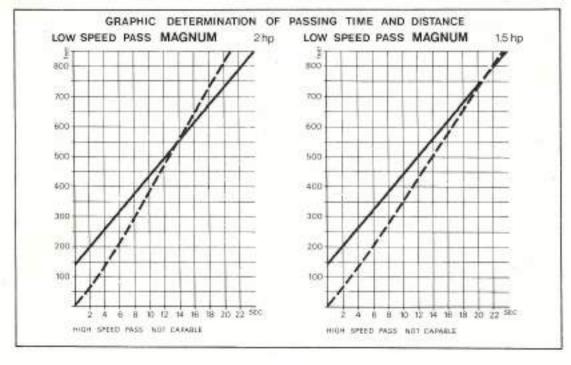
30	o mines	una	ies.	1	11150		V
	300	600	906	1000	3600	7200	OPERATIONS TO PERFORM
							Tire wear and condition
	•				•		Throttle cable adjustment
	•		•	•			Check the pressure
							Check transmission ATF level
	•						Clean and lubricate chains
	•						Clean air filter
ш	•			1			Change transmission ATF
g							Check spark plug
SERVICE							Decarbonize engine
							Clean exhaust baffle
H.	•						Retighten screws and nuts
E							Clean fuel valve and lines
RECOMMENDED				•			Clean carburetor
ð.	•						Idle speed adjustment
H							Check ignition timing
							Adjust clutch
	•						Check brakes / linings
							Check / lubricate hub bearings
							Lubricate front lork *)
							Steering bearing adjust/lubrication
	•						Lubricate control cables
							Adjust chain tension

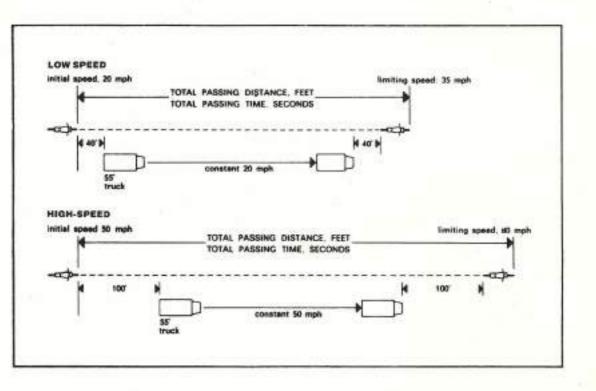
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#### J) CONSUMER INFORMATION



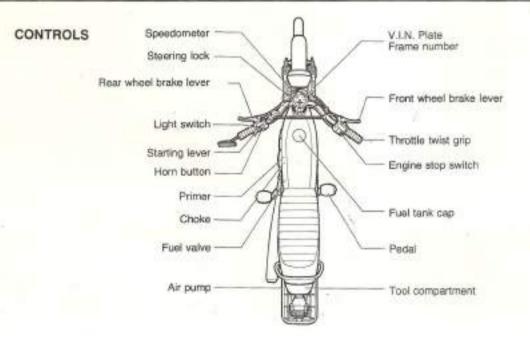
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OESCRIPTIO	ARLE				







2hp



#### ENGINE

and the second se									
Maximum output									2 hp at 5000 rpm 2.09 ft, be (0.33 mep) at 4500 rpm
Makimum toroue		12			12	1.2	- 23	10	2.69 ft, lbs: (0.33 mkp); of 4500 rpm
Compression ratio		- 22			121			12	64 1 (0.5 : 1)
Martin .								12.	1.496 in (38 mm)
Bore		. * 1	. * :		15	0 B	18	. *	1.4900 In (JD) mm)
Decret	4					1.4.			1.693 in (43 mm)
Displacement -									2.97 pu. in (48.8 oc)
Caloking									sir cooled
Cashing Lubrication Carburetor									Dakiof mitbure
Contractor		Τ.		1.1		17.	1.		Bing 1/12/322
COLOUR DEVICE		10	1.0	1.9	14	- 20	- 21		Dirig Stic Occ
Mars pet		11					1.1	1.0	60 (58 by-packed)
Needia jat		100	1.			14	14.		2.12 A
Needle position		1.5		12		1.2			1st notch from top
NewOrdie store		÷.			-	- 71			2
Throttle slide		۰.				12			2.
	۰.					-	- F.		<b>B</b> (
ignition			1.	- 14		1.	14.1		magneto ignition
Breaker point gap		1	1.2		12.1	1.1	1.1		010-020 in (0.4-0.5 mm)
ignition timing									.062-067 in (1.3-1.7 mm) BTDC = 18-21 <sup>0</sup>
County rokum						0.5	- 5.		Boath W 7 A. Champion I. 86
Spark plug Spark plug gap	۰.		1.7	. * :			. *		.016020 m (0.4-0.5 mm)
Schein banß Beis		+			-	- 10	1.2	- *	and-man in inte-mainting
Chernerator	4.1					1.0	1.	1.00	flywheel magneto Bosch RDPI 6V, 26-5/10W
ignition coll		1.0	1.0			1	192		special coll for magneto ignition
Ignition coll Cylinder material		- 11	22				10		Au-ality with cast iron liner

#### POWER TRANSMISSION

Clutch Transmission	2 separate centrifugal dutthes running in ATF 2 speed automatic, 1 st, 16 : 70 1 = 4.375 2 nd, 52 : 54 1 = 2.909
Engine/Transmission reduction	helical gears 14 : 31: 1 = 2.214
Transmission/Rear wheel drive	chain 1/2 x 3/16 in 18 : 40: 1 = 2.22
Pedalling drive	chain 1/2 x 1/8 in, 28 : 23: 1 = 1.13

#### CHASSIS

Prame	1		
Front wheel auspension:			
Rear wheel suspension			20
Brakes			22
Dia. of brake drum		22	22
Wicht of brake kning		20	21
Total effective brake surface:			24
Tire size mont and rear			
Tine pressure front/rear			
Fuel tank		1	

tubular barne beleacopic fork: 2.95 is (75 mm) towel control arri: 2.96 in (60 mm) towel internal expanding brake shoes 3.15 in (60 mm) 70 in (18 mm) 8.06 sg in (52 mm) 8.16 is (18 mm) 2.1,2 - 17 25/32 psi (1.8/2.25 bar) 1.05 US gai. (7.6

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#### DIMENSIONS AND WEIGHTS

Overall lenght	1			-					20.9 in (1800 mm)
Overall width									32.3 in (820 mm)
Overall height									45.3 in (1150 mm)
Wheelbase .				-				-	45.3 in (1150 mm)
Ground cleartince		12.	- 61		1.1	15	12	- 21	6.3 in [160 mm]
Dry weight							18		128.6 bs. (58.5 kg)

#### ELECTRICAL EQUIPMENT

Headight built		6¥, 21W
Tail-/Stop light burb		5%, 5 WeV, 10 W
Speedometer light bulb		6 Y, .6 W
Warning device	A 41 4 40	hom

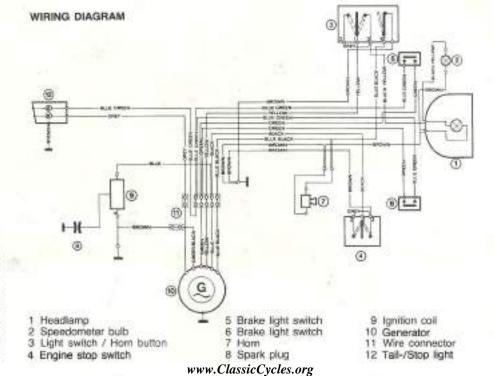
#### PERFORMANCE AND CONSUMPTION

Top speed	30 mph (48 km/h)
Hit climbing abiity	
Fuel consumption (DIN 70030)	

Test conducted on a flat track in top general 3/4 top apend. Track of 6.2 miles (10 km) is used both ways and may have very short upward and downward grads of maximum 1.5 %. The vertice must be adjusted to specification, with time connectly inflated. Riders weight not indire than 143 bs. (65 kg) may not accessed consumption is increased by 10 %, taking untervolumble conditions into account. New vehicles may very up to 5 % from file value.

#### CAPACITY AND QUALITY OF LUBRICANTS (see Owners Manual)

ENGINE	Moture of regular grade gasoline with special 2 stroke oil (MAXI MDG) - 50 1 DO NOT USE UNLEADED GASOLINE
TRANSMISSION	8 1/2 ft ox (280 cc) Automatic-Transmission-Ruld "TYPE F"
GREASE MIPPLE	Use grease or oil SAE 80
CABLE	Lubricate cables with oil SAE 30
WHEEL BEARING	Lithium base grease
CHAIN	OR SAE 00
FRONT FORK	Lithum base gease



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### OEM PARTS & ACCESSORIES

### Click on links below

- OEM parts & online schematics (EU)
- OEM parts & online schematics (US)
- **Cruiser Customizing**
- J&P Cycles Motorcycle Parts
- Save Up to 45% on Motorcycle Tires
- JC Whitney Motorcycle Parts & Accessories
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