



Maxi
Owner's Manual

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

Steve Dainster Puch of America Corporation

Greenwich Office Park Box 7777 Greenwich, Ct. 06830

Contents

	PAGE
Preface	1
Warranty —	
Terms & Conditions	3
Extent of Coverage	4
Exclusions	5
Registration	6
A. Serial number location	7
B. Operating controls	9
C. Break-In procedures	14
D. Riding instructions	17
E. Trouble shooting	21
F. Owner maintenance	23
G. Suggested maintenance and lubrication chart	25

THE WARRANTY – Terms & Conditions

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

This warranty only applies to the original consumer purchaser.

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 assembly. 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 of incidental 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;
3. If any unauthorized or non-standardized spare part is installed;
4. If any maintenance or repair is performed during the warranty period by anyone other than an authorized Puch Dealer.

Exclusions:

Tires, tubes, bulbs, lenses and spark plugs are not covered under this warranty.

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 06830 or phone (203) 661-2202.

WARRANTY REGISTRATION

Parts 1 and 2 of the Warranty Registration form must be completed by the original consumer purchaser.

Part 1 should be kept by the original purchaser in his/her possession.

Any claim made under this warranty must be accompanied by Part 1 of the Warranty Registration Form.

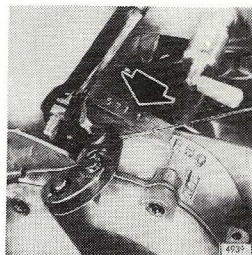
Part 2 which is self-addressed and stamped, must be mailed to Steyr Daimler Puch of America Corporation, P.O. Box 7777, Greenwich, Connecticut 06830, and mailed not later than ten (10) days after purchase. We strongly recommend that both parts of the Warranty Registration form be completed in the store at the time of purchase, where the dealer is available for assistance.

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

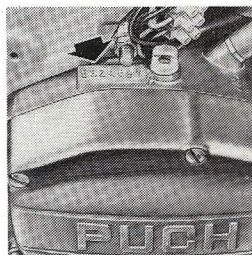
A) SERIAL NUMBER LOCATION

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

1-Speed Automatic



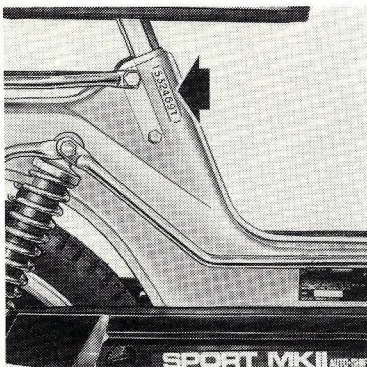
2-Speed Automatic



The specification plate is secured to the right side of the frame.

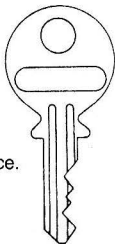


The frame serial number is stamped on the right side of the frame, just beneath the seat post.



IMPORTANT!

Write down your
key-number at once.
This saves time,
money and
annoyance if the
keys are lost.



My key number is

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 handlebar to the right.

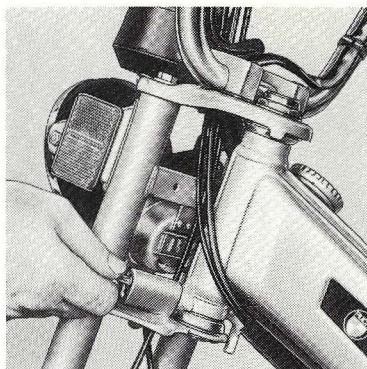
Insert key into lock.

Turn key to the left, push in and turn key to the right.

Remove key.

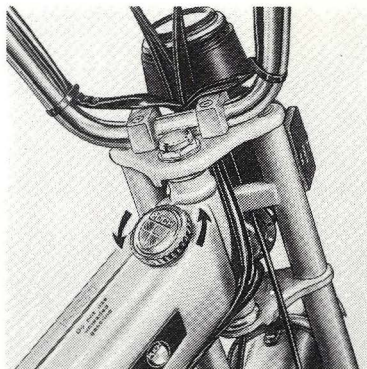
Unlocking is accomplished in reverse order.

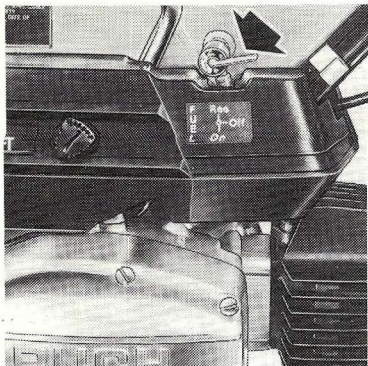
Lock is optional on Maxi and may be service installed at your PUCH dealer.



Fuel tank filler cap

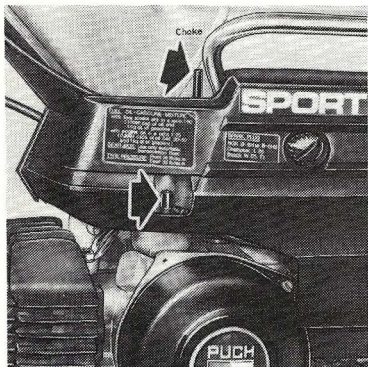
To open turn filler cap counter clockwise.





Fuel valve

The fuel valve is located on the right side of the frame. The positions are clearly indicated on the chain guard. 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.



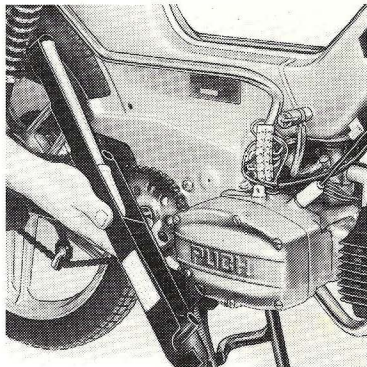
Carburetor

- 1) Primer (see starting engine on page 17).
- 2) The choke is operated by depressing the black rod extending through the left engine cover.

Air pump and tools

The air pump and the tool kit (on models where tool kit is supplied) are stored in the right chain guard cover.

Optional tool kit may be purchased at your PUCH dealer.

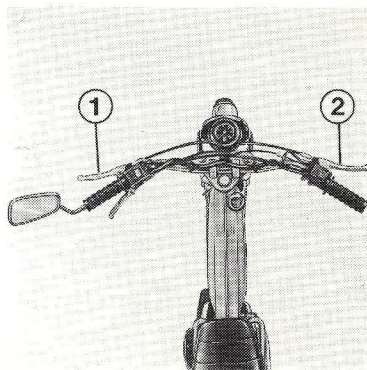


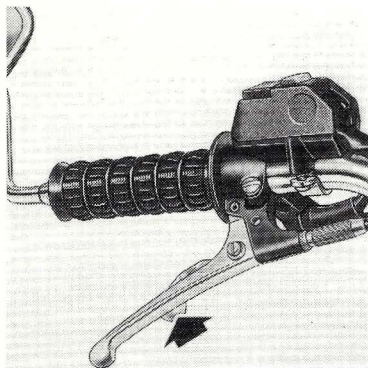
Brake levers

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.

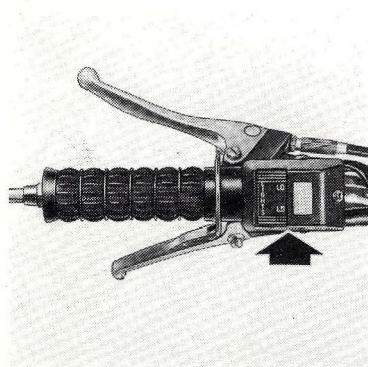




Starting lever

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

Please refer to operating procedure on page 17.

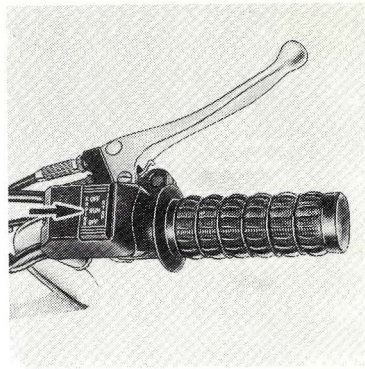


Light and horn switch

This combination switch is located on the left side of the handlebar. Thumb lever on the end of the switch activates the lights. The small 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.



C) TIRE PRESSURE

Recommended tire pressure

Front 25 PSI

Rear 32 PSI

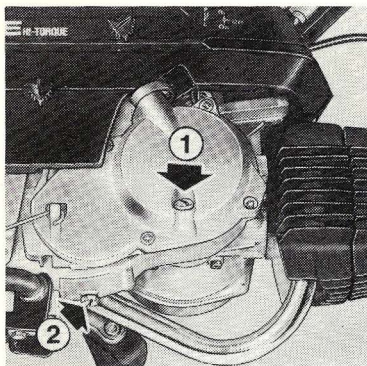


D) OIL, GAS/OIL MIXTURE

Checking transmission oil level

The 1-speed automatic has an oil level screw (1), which also serves as the filler plug, located on the clutch cover. The drain plug (2) is located on the lower engine case half.

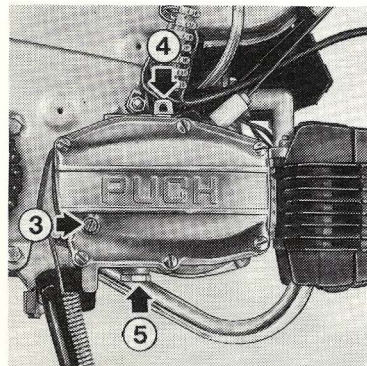
5³/₄ fl. oz. (170 cc) of ATF "TYPE F" is used for refill.



1-SPEED AUTOMATIC

The 2-speed automatic has an oil level screw (3) located on the clutch cover. The filler hole (4) is through the top of the right crankcase half. The drain plug (5) 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.



2-SPEED AUTOMATIC

CAUTION

The moped must be upright when filling ATF. Do not overfill. Leave oil level control screw removed until excessive ATF drains off.

ATF change after the first 300 miles of operation is highly recommended.

Filling up with two stroke mixture

All MAXI engines 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

PUCH MAXI MIX

50 : 1 OIL MIXING TABLE

To 5 gallons gasoline add 12 fl. oz. (379 cc) oil

To 1 gallon gasoline add 2.4 fl. oz. (76 cc) oil

To 1 quart gasoline add .6 fl. oz. (19 cc) oil

NOTE:

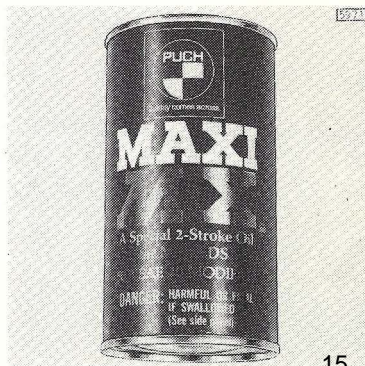
To reduce carbon build-up within the engine and exhaust system, we strongly recommend the use of the special 2 stroke MAXI MIX oil, 50 : 1 ratio. However as an emergency measure, a regular 2 stroke oil can be mixed in a 25 : 1 ratio as shown below.

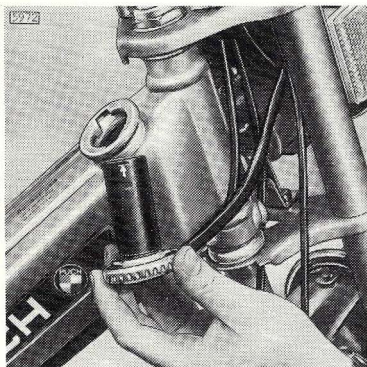
25 : 1 OIL MIXING TABLE (REGULAR TWO STROKE OIL)

To 5 gallons of gasoline add 24 fl. oz. (757 cc) oil

To 1 gallon of gasoline add 4,8 fl. oz. (151 cc) oil

To 1 quart of gasoline add 1,2 fl. oz. (38 cc) oil





Using cup to measure oil for gas/oil mixing ratio

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

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

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!**

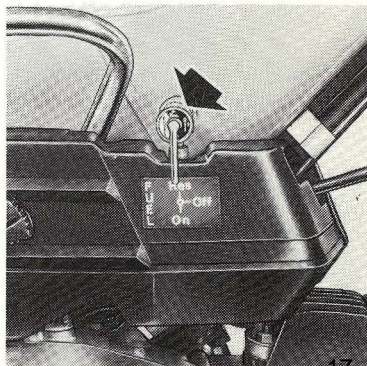
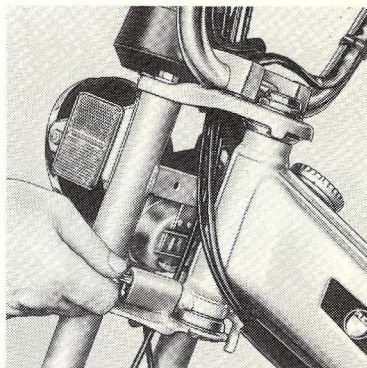
E) OPERATING INSTRUCTION

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

CAUTION: After completing step 5 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.

6. 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.

7. Alternate starting method:
The moped may also be started by pedalling 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.



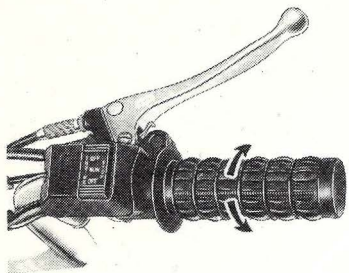
Throttle

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:

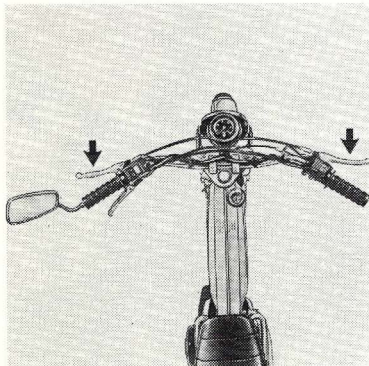
Depending on engine RPM, clutch will engage or disengage automatically on the one speed model.

In addition, shifting into or from 2. gear, depending on engine RPM and road speed, will occur automatically on the two speed model.



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 friction 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.

Turn off engine with stop switch.

Close fuel valve.

Rest moped on stand and lock.

Securing your moped

(See page 9)

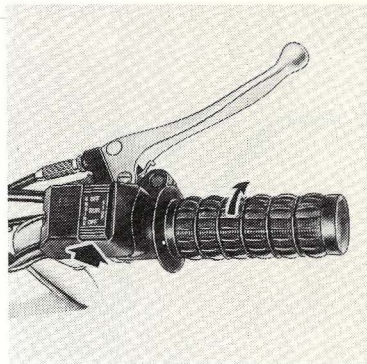
A high security locking device is recommended. See your PUCH dealer for advice.

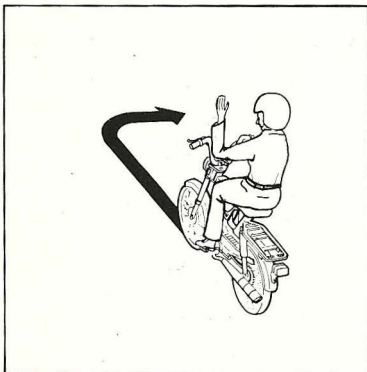
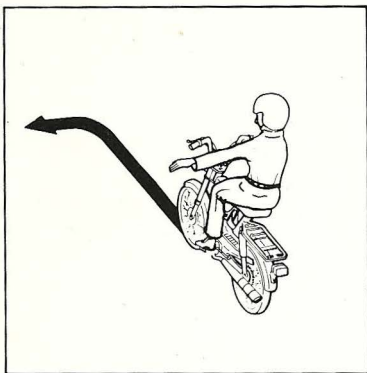
WARNING

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

CAUTION

Two lengths of screws are used to secure the chain guards. Ensure that only the shorter version is used on the left rear bracket. Longer screw will protrude too far through the bracket and possible damage the rear tire.





F) RIDING INSTRUCTION

1. It is suggested to wear bright clothing, utilize eye protection, and proper shoes or boots when riding your moped.
2. Wearing a helmet is optional in most areas. See your PUCH dealer for advise.
3. Be sure to switch on headlight at low visibility and/or where required by law.
4. 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.
5. 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.
6. 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.
8. To ensure engine lubrication on long downhill rides, open throttle occasionally.

G) TROUBLE SHOOTING

Engine will not start or stops running

Cause

1. Fuel valve closed
2. Fuel tank empty
3. Stop switch in "Off" position
4. Spark plug is fouled
5. Spark plug defective

6. Ignition cable has worked loose from spark plug
7. Engine is too cold
8. Engine is flooded
9. Fuel valve is clogged or main jet is clogged

Remedy

- Open fuel valve or switch valve to reserve position
- Switch valve to reserve or refill tank with gas/oil mixture
- Switch to "RUN" position
- Clean spark plug or replace
- Replace
- Note: Spark plug gap
.016–.020 in (0.4–0,5)
- Reconnect it to spark plug
-
- Apply choke
- Clean spark plug
- Have it cleaned at your Puch dealer

Poor Performance

Cause	Remedy
1. Choke working all the time	Disengage it by opening throttle fully
2. Exhaust clogged	Have dealer clean exhaust
3. Spark plug defective or fouled	Clean or replace it
4. Clutch slips	See your Puch dealer
5. Air filter is clogged	Clean air filter
6. Fuel mixture incorrect	Drain tank and refuel with correct mixture Note: see mixture chart

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

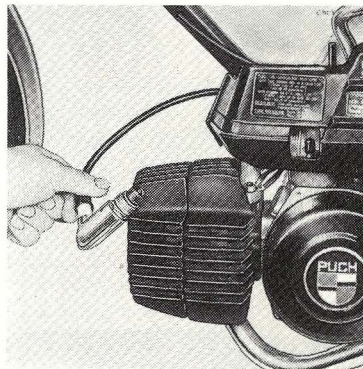
To check if plug is functioning properly, proceed as follows:

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 PROCEEDING

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

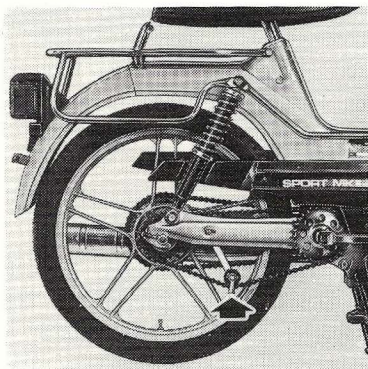
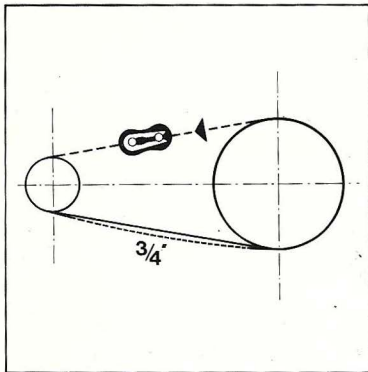
		Alu. chrome	Hi torque	
	1 HP–All	1,5 HP–cylinder	1,5 HP–cylinder	2 HP–All
Bosch	W 10 A (W 95 T 1)	W 8 A (W 145 T 1)	W 7 A (W 175 T 1)	W 7 A (W 175 T 1)
NGK	B-4H	B-5HS	B-6H or B-6HS	B-6H or B-6HS
Champion	L 90	L 88 A	L 86	L 86

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 SAE 90 oil.

Always keep chains properly tensioned. The proper slack of the drive chain should be $\frac{3}{4}$ ".

To adjust chains, loosen the axle nuts and tighten or loosen the adjuster nuts. Once chains are 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 milage 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.

Frequency

		First 300 miles	Every miles					OPERATIONS TO PERFORM
		300	600	900	1800	3600	7200	
RECOMMENDED SERVICE	•		•	•	•	•	•	Tire wear and condition
	•					•	•	Throttle cable adjustment
	•		•	•	•	•	•	Check tire pressure
	•			•	•	•	•	Check transmission ATF level
	•			•	•	•	•	Clean and lubricate chain
	•				•	•	•	Clean air filter
	•					•	•	Change transmission ATF
	•			•	•	•	•	Check spark plug
					•	•	•	Decarbonize engine
					•	•	•	Clean exhaust baffle
	•				•	•	•	Retighten screws and nuts
						•	•	Clean fuel valve and lines
	•				•	•	•	Clean carburetor
	•				•	•	•	Idle speed adjustment
	•					•	•	Check ignition timing
•					•	•	Adjust clutch	
•			•	•	•	•	Check brakes / linings	
					•	•	Check / lubricate hub bearings	
					•	•	Steering bearing adjust / lubrication	
•			•	•	•	•	Lubricate control cables	
•			•	•	•	•	Adjust chain tension	

J) CONSUMER INFORMATION

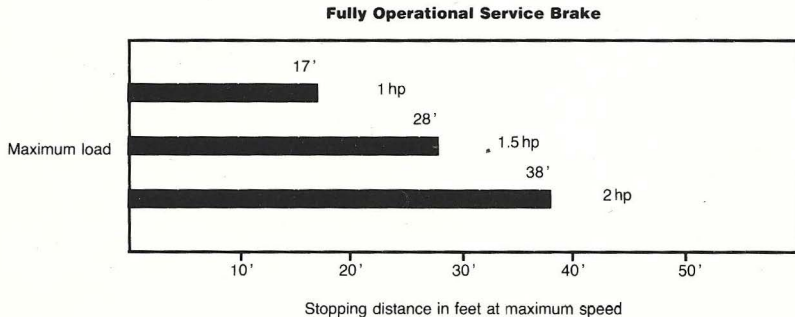
CONSUMER INFORMATION

Stopping Distance

Vehicle minimum stopping Distance on dry ground

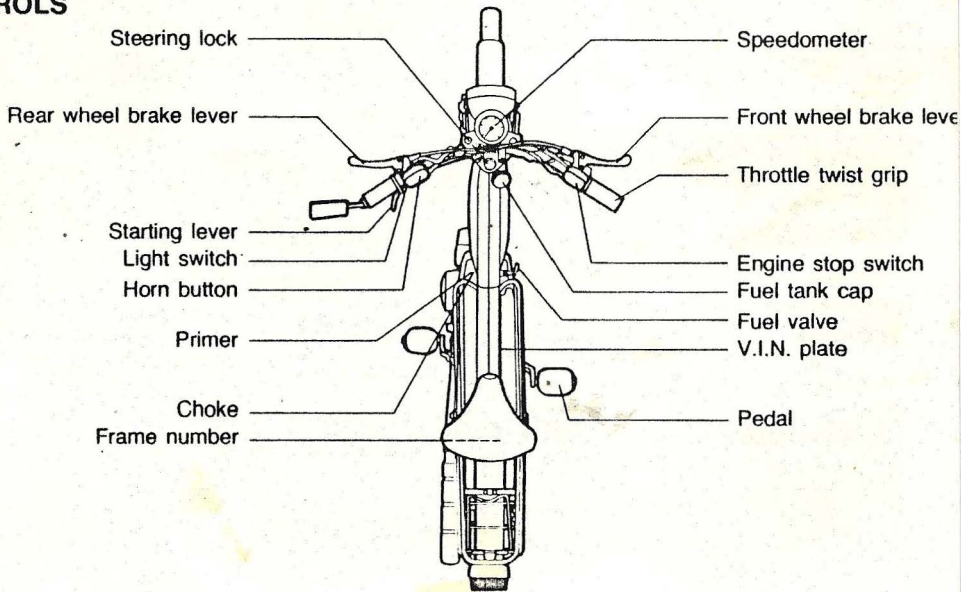
This figure indicates braking performance that can be met or exceeded by the vehicles to which it applies, without locking the wheels, under maximum condition of loading. The information presented represents results obtainable by skilled drivers under controlled road and vehicle conditions, and the information may not be correct under other conditions.

Description of vehicles to which this table applies: MAXI





CONTROLS



ENGINE

Maximum output	2 hp at 5500 rpm
Maximum torque	2.17 ft. lbs (0.3 mkp) at 4000 rpm
Compression ratio	7 : 1 (9.2 : 1)
Bore	1.496 in (38 mm)
Stroke	1.693 in (43 mm)
Displacement	2.97 cu. in (48.8 cc)
Cooling	air cooled
Lubrication	gas/oil mixture
Carburetor	Bing 1/14
Main jet	62
Needle jet	2.22
Needle position	2nd notch from top
Needle size	1
Throttle slide	24
Ignition	magneto ignition
Breaker point gap	.014-.018 in (0.35-0.45 mm)
Ignition timing	.032-.047 in (0.8-1.2 mm) BTDC = 14-17.5°
Spark plug	Bosch W 7 A, Champion L 86
Spark plug gap	.016-.020 in (0.4-0.5 mm)
Generator	flywheel magneto Bosch RDP1 6 V, 26-5/10 W
Ignition coil	special coil for magneto ignition
Cylinder material	Alu-alloy, cyl. wall hard chrome plated

POWER TRANSMISSION

Clutch	centrifugal clutch running in ATF
Transmission	single speed automatic
Engine/Transmission reduction	helical gears 21 : 106, i = 5.05
Transmission/Rear wheel drive	chain 1/2 x 3/16 in, 16 : 45; i = 2.81
Peddalling drive	chain 1/2 x 1/8 in, 28 : 23; i = 1.217

CHASSIS

Frame	shell type
Front wheel suspension	telescopic fork; 1.96 in (50 mm) travel
Rear wheel suspension	control arm; 1.96 in (50 mm) travel
Brakes	internal expanding brake shoes
Dia. of brake drum	3.15 in (80 mm)
Width of brake lining	.70 in (18 mm)
Total effective brake surface	8.06 sq in (52 cm ²)
Tire size front and rear	2 1/4-17
Tire pressure front/rear	26/32 psi (1.8/2.25 bar)
Fuel tank	.845 US gal. (3.2 l)

DIMENSIONS AND WEIGHTS

Overall length	65.7 in (1670 mm)
Overall width	32.3 in (820 mm)
Overall height	42.5 in (1080 mm)
Wheelbase	42.9 in (1090 mm)
Ground clearance	3.9 in (100 mm)
Dry weight	97 lbs. (44 kg)

ELECTRICAL EQUIPMENT

Headlight bulb	6 V, 21 W
Tail-/Stop light bulb	6 V, 5 W / 6 V, 10 W
Speedometer light bulb	6 V, .6 W
Warning device	horn

PERFORMANCE AND CONSUMPTION

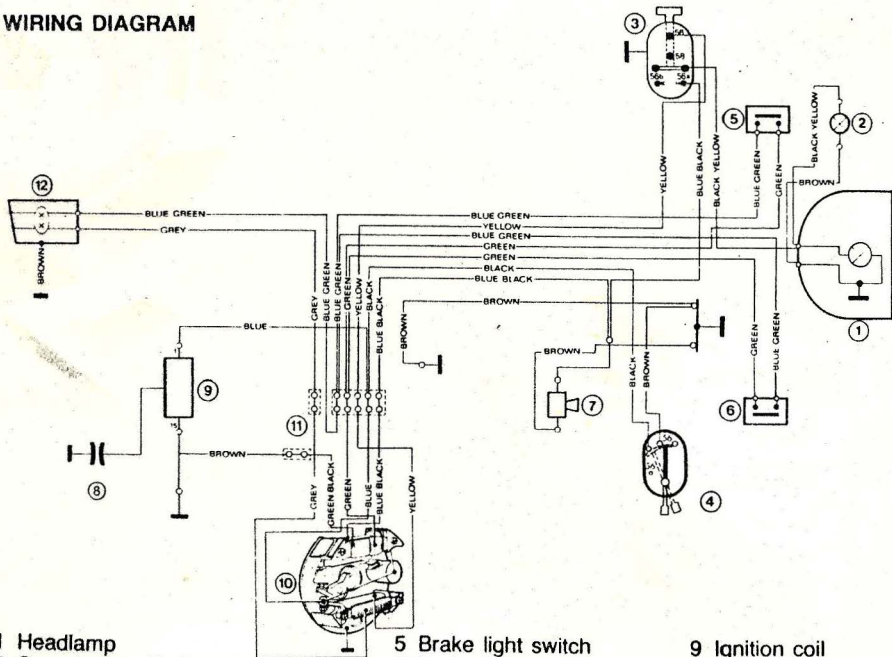
Top speed	30 mph (48 km/h)
Hill climbing ability	15%
Fuel consumption (DIN 70030)	150 mpg (1.6 l/100 km)

Test conducted on a flat track in top gear at 3/4 top speed. 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 vehicle must be adjusted to specification, with tires correctly inflated. Riders weight not more than 143 lbs. (65 kg). The measured consumption is increased by 10%, taking unfavourable conditions into account. New vehicles may vary up to 5% from this value.

CAPACITY AND QUALITY OF LUBRICANTS (see Owners Manual)

ENGINE	Mixture of regular grade gasoline with special 2 stroke oil (MAXI MIX) - 50 : 1 DO NOT USE UNLEADED GASOLINE
TRANSMISSION	5 3/4 fl. oz (170 cc) Automatic-Transmission-Fluid "TYPE F"
GREASE NIPPLE	Use grease or oil SAE 90
CABLE	Lubricate cables with oil SAE 30
WHEEL BEARING	Lithium base grease
CHAIN	Oil SAE 90
FRONT FORK	Lithium base grease

WIRING DIAGRAM



- 1 Headlamp
- 2 Speedometer bulb
- 3 Light switch/Horn button
- 4 Engine stop switch

- 5 Brake light switch
- 6 Brake light switch
- 7 Horn
- 8 Spark plug

- 9 Ignition coil
- 10 Generator
- 11 Wire connector
- 12 Tail-/Stop light

Steyr Daimler Puch 

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