

OWNERS MANUAL

OPERATION MAINTENANCE SAFETY

COSMO TOP TANK

WARNING !

BE SURE TO CAREFULLY FOLLOW THE STEP-BY-STEP INSTRUCTIONS, ILLUSTRATIONS AND SAFETY PRECAUTIONS IN THIS MANUAL TO START, OPERATE AND MAINTAIN YOUR NEW PRODUCT



SAFETY PRECAUTIONS

1. Operation of all Moped should always be restricted to mature and properly instructed individuals.
2. Do not operate Moped without a Helmet, protective approved eyewear and protective clothing.
3. Do not fill Fuel or Oil mix, while Engine is on.
4. Do not operate Moped without a muffler. Do not touch or let your body come in contact with hot muffler.
5. Do not allow Fuel, Oil or Dirt to buildup on Engine to avoid over heating.
6. Do not operate Moped in awkward positions (maximum (1) one operator per Moped).
7. Do not operate Moped while under the influence of Alcohol or Drugs.
8. Do not add, remove or alter any components on this product, doing so can cause personal injury and/or damage to the Moped, which will void the manufacturer's warranty.
9. Do not operate Moped under adverse weather, Road or Highway conditions.
10. Do not use any other Fuel or Lubricants than that recommended in your operation and maintenance manual.

**"OPERATOR MUST ADHERE TO THESE SAFETY PRECAUTIONS"
NOT ADHERING TO THEM MAY CAUSE SERIOUS INJURY TO OPERATOR"**

PLEASE READ

Dear Customers,

Thank you for purchasing a COSMO TOP TANK Moped with proper operation and maintenance it will provide you with years of service.

In order to make the best use of your new Moped be sure you read this entire Owners Manual before your attempt to Operate and Maintain your unit.

Be sure to carefully follow the step-by-step Instructions, illustrations and precautions.

A WARNING or CAUTION identifies procedures which if not undertaken or improperly done can result in serious personal injury to operator and/or damage to the unit. Damage or conditions which render this product inoperable caused by improper maintenance practices will void the manufacturer's warranty.

TABLE OF CONTENTS

SNO.	DESCRIPTION	PAGE NO.
1.	ASSEMBLY INSTRUCTIONS	01
2.	ASSEMBLY INSTRUCTIONS	02
3.	IMPROTANT BEFORE STARTING	03
4.	FUEL & LUBRICATION	04
5.	BEFORE OPERATION	05
6.	OPERATING INSTRUCTIONS	06
7.	OPERATING INSTRUCTIONS	07
8.	MAINTENANCE TIPS	07
9.	TROUBLE SHOOTING	08
10.	VEHICLE MAINTENANCE	09
11.	VEHICLE MAINTENANCE	10
12.	VEHICLE MAINTENANCE	11
13.	TECHNICAL SPECIFICATION	12
14.	TECHNICAL SPECIFICATION	13
15.	TECHNICAL SPECIFICATION	14
16.	VEHICLE STOPPING	14
17.	VEHICLE PASSING TIME & DISTANCE	15
18.	OPERATOR RESPONSIBILITY	16
19.	SAFETY PRECAUTIONS	17
20.	WIRING DIAGRAM	18
21.	CUSTOMER ASSISTANCE	19

ASSEMBLY INSTRUCTIONS

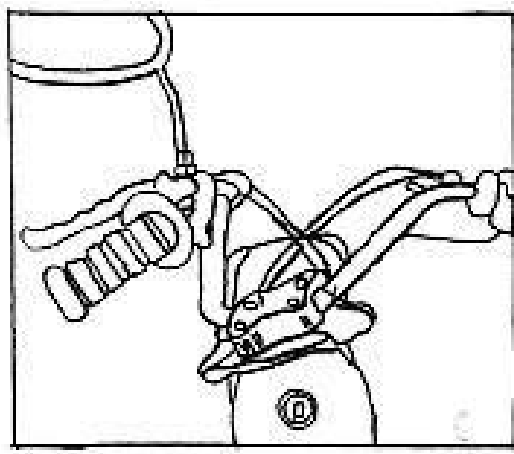
ASSEMBLY OF LOOSE PARTS :

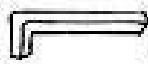




To make the packing compact we have removed following components and packed them in the same box. You are requested to assemble them in sequence, keeping vehicle on its own stand.

Assembly

A-1.Handle bar

- a) Unwrap Handle Bar Clamp & Bolts etc. packed in polythene bags.
- b) Check the Sector Plate on upper plate slots remove the tape.
- c) Place the Handle Bar on the sector plate with clamp. With the use of m6x40 Socket Head screw, tighten the handle bar slightly.
- d) While tightening the bolts please ensure :-
 - (i) Handle bar is properly centered while the bolts are still loose.
 - (ii) After centering adjust the angle of handle bar which suits you. Tighten the screws fully & ensure that handle bar is not rotating under normal handling pressure.
 - (iii) We have provided one mirror just screw it in the left handle bar threaded hole near switch.



-  ALLEN KEY
(25702011)
-  ALLEN SCREW
(25652089)
-  HANDLE BAR CLAMP
(25410166)
-  HANDLE BAR
(20410177)
-  SECTOR PLATE
(25410167)

FITMENT OF HANDLE BAR

ASSEMBLY INSTRUCTIONS

A-2. FITTING OF PEDALS

- a) We have removed the Crank, Pedal Assy. With taper pin, Nuts, and Washers to reduce Box width.
- b) You are requested to take out all above items from its packings. Place the pedal arms on pedal shaft of Engine. Ensure both pedal arms are placed on its respective place LH side & RH side.
- c) Put one tapered pin in the hole on any one of the pedal arms and gently tap. Rotate the pedal arm for 180 Degrees, other side pedal arm take its correct position. Insert the tapered pin and gently tap.

Please note that before inserting tapered pin you need to match the slot provided on the horizontal spindle to ensure that both pedals become parallel.

- d) Tighten both tapered pins with the nuts provided check that the pedals are tightened fully that are already assembled on the Pedal ARMS (Note: - Right Pedal is tightened in a clockwise direction, while the left is tightened in an anticlockwise direction.)



A-3. DIRECTION INDICATOR LAMPS (OPTIONAL)

A concession tag is hanged on your moped. You may order these indicators & fix the same on moped as per instructions given in card.

IMPORTANT BEFORE STARTING

Two sets of keys are provided with the vehicle. One key is for the ignition, one key is for the fuel tank and other one is for the handle lock in turned position.

Please keep one set secure & in the event you loose the original keys you can use these keys.

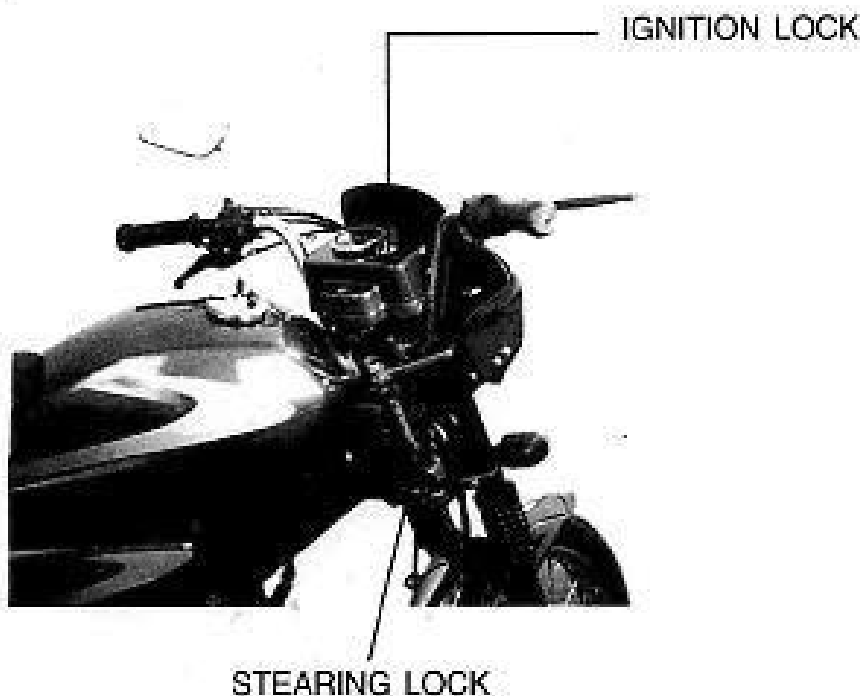
Remove spark plug and turn pedal to expel protective oil inside Engine. Wash the Spark plug in solvent and carefully replace.

Two stroke oil must be mixed with gasoline otherwise engine will seize. For first 300 miles mix 4% oil per gallon. Afterwards reduce to 3 % oil per gallon.

Check the tyre pressure 26 PSI in front and 34 PSI in rear.

Do not exceed 20 MPH for first 300 miles running in period.

The gear box oil calls for 350 ML/450 ML of SAE 30 ~~SAE 40~~ in single/double speed and 3 speed engines respectively.

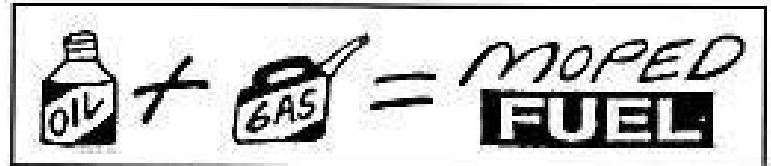


FUEL & LUBRICATION

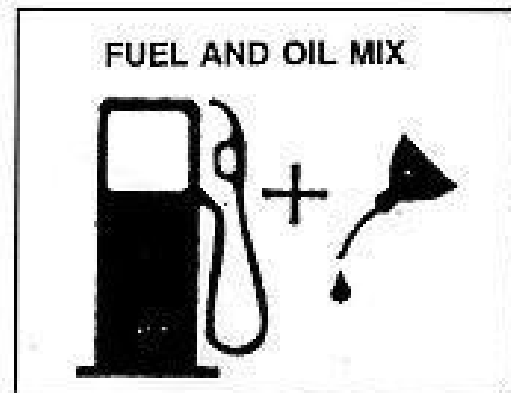
IMPORTANT

Before filling gas tank of Moped you must mix fuel and oil together, see picture below.

1. In separate containers
Measure 1 gallon of Gas
And 4 % of 2 stroke oil.



2. Mix 1 gallon of Gas
With 4 % of 2 stroke oil.
3. Fill gas tank of Moped
Carefully.



ADDITIONAL LUBRICATION

1. Gear Box: Oil ~~SAE 30~~ SAE 30
For single & Two speed Engine : 350 ML
Three speed Engine : 450 ML
2. Front Suspension Grease
Enough to Lubricate
3. Drive Chain : SAE 30 oil enough to lubricate
4. Bearings, Brake levers and cams :
Lithium calcium, grease enough to lubricate.

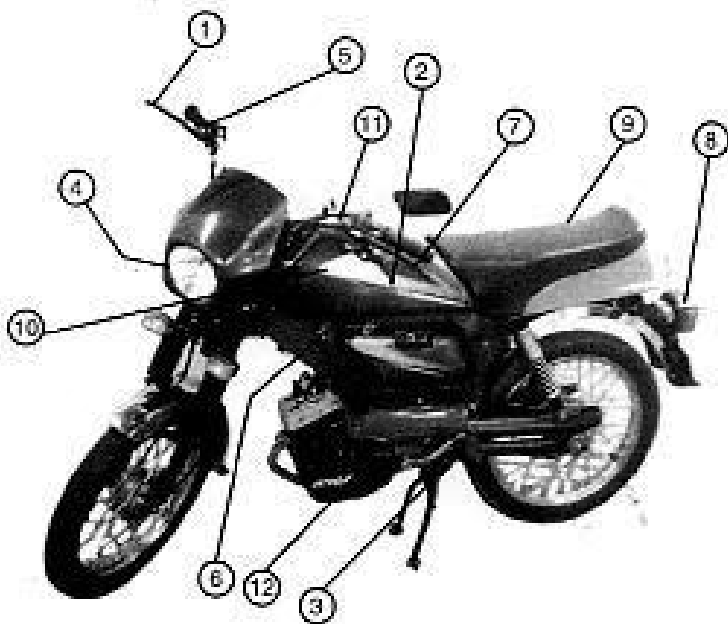


BEFORE OPERATION

WARNING : You must Double check each item below for correct operation.

KNOW YOUR MOPED

1. Fuel Mixture : You must mix Gasoline with Oil before filling Gas tank ! Mixture is 1 Gallon of Gas mixed with 4% of 2 stroke oil for first 300 miles of operation and 3% of 2 stroke oil afterwards.
2. Check Tire Pressure : Front 26 PSI, Rear 34 PSI
3. Test Head Light : Front & Rear Turn Signals & Rear tail light for proper working order.
4. Check Gas Tank Petrol Cock (Gas valve from gas tank to Engine) Located on left side Bottom of the Gas Tank. Make sure it is not leaking before operation.
5. Check seat height, Handle bar tightness.
6. Brake levers must be secured properly to handle bars.
7. Both front and rear wheels must spin freely.
8. Handle bars must be unlocked (if locked unlock with key provided) Do not forget to remove key after unlocking.
9. **WARNING :** Any indication of malfunction of any part on Moped can result in personal injury !
10. **WARNING :** Always wear a Helmet, protective eyewear and protective clothing.



S.No.	DESCRIPTION
1	FRONT BRAKE LEVER
2	STARTING LEVER
3	PEDAL
4	HEAD LIGHT
5	LIGHT & HORN SWITCH
6	PET COCK
7	REAR BRAKE LEVER
8	TAIL LIGHT
9	SADDLE
10	FUEL TANK
11	FUEL TANK CAP(WITH LOCK)
12	OIL FILLER PLUG

OPERATING INSTRUCTIONS

IMPORTANT BEFORE STARTING !

Please read this entire owner's MANUAL if you have any questions about the operation, maintenance or safety of this Moped please call 1-800-523-2522.

NOTICE BEFORE RIDING !

You must mix 4% 2 Stroke Oil for first 500 kms (300 miles) & 151.5 ml (5.8606 OZ) per US Gallon of Gas. Mix 3% 2 Stroke oil after 500 kms (300 miles) & 113.6 ml (4.3954 OZ) per US Gallon of Gas. Mix carefully and thoroughly –Fill gas tank (wipe up any spills & Do not fill Moped while it is runing.)

TO, OPERATE

1. PUT MOPED ON ITS STAND.
2. TURN ON THE GAS PETCOCK – (This knob lets the gas from the gas tank in to the carburattor). It is located left side bottom of the gas tank it has three positions "ON", "OFF" and "RESERVE" turn to "ON" position.
3. UNLOCK STEERING – (The steering lock is at the front right side near gas tank mounting area). Insert the key and turn anti-clockwise lock will release on spring force and leave the key. To lock Turn the key clockwise and push inside. Do not leave the key bunch on vehicle while running. It will foul/fall.
4. TO START MOPED – Put the key ignition located on top of the Gas Tank Front, Meter Panel that is on the handlebar middle.
5. TRUN THE KEY CLOCKWISE. Be sure switch is in (RUN) on position.
6. Press choke lever located right side of the engine on the carburettor.
7. Start engine by holding accelerator throttle grip (right hand) while holding starting lever (left hand index finger). Next, sharply press the left pedal downward (with your left foot) while twisting the throttle backwards to you and releasing the starting lever. Do this until the engine starts. After the engine starts "GIVE IT SOME GAS". Lift your Choke lever in off position immediately.
8. Put your Helmet On ! "And you are ready" to take off and have fun".

OPERATING INSTRUCTIONS

USING THE MOPED AS A BICYCLE

AT ENGINE OFF POSITION, TAKE OUT FROM STAND, SIT ON THE MOPED SEAT & START PEDALING CLOCKWISE ENJOY CYCLING.

MAINTENANCE TIPS

WHEN NOT IN USE FOR A PERIOD OF TIME

1. Wash and Dry Moped
2. Drain gas from Gas Tank.
3. Unscrew Spark Plug and insert few drops of oil in the engine cylinder.
4. Drain fuel from Carburattor bowl.
5. Cover your Moped.

ADDITIONAL PRECAUTIONS

NOTICE : THE NUMBER 1 CAUSE OF HEAD INJURIES IS NOT WEARING A HELMET ! PROPER OPERATION INCLUDES THIS.

- WEAR A HELMET AT ALL TIMES !
- WEAR PROTECTIVE CLOTHING AT ALL TIMES !

TIPS

1. Check proper fuel / oil mixture : Mix 1 US Gallon fuel with 4 Oz of 2stroke oil in a separate container before filling gas tank.
2. Maintain Gear Box Oil (350-ml)
3. Inspect front and rear brakes for wear before any ride and every 20 miles of operation.
4. Check proper Tire pressure before and after every ride. FRONT TIRE : 26 PSI REAR TIRE : 34 PSI.
5. Maintain and check all cables for fraying/binding or improper wear.
6. Maintain all lighting, head light, tail light, front & rear turn signals, replace with standard automotive light bulbs only.
7. Check chain tension before every ride and then every 10 miles of operation.

TROUBLE SHOOTING

Problem	Reason	Remedy
Engine does not start	No Gas	Fill the Gas Tank, Turn on Tank valve (Petcock)
	Fuel filter Clogges Carburrator jets clogged	Remove and clean
	Spark Plug Bad / Short	Replace Spark plug.
Engine starts but runs rough	Dirty Air filter	Clean Air filter
	Bad gas clogged gas line	Put new gas in tank blow out gas line
Faulty Electric	Loose connections Bulb filament bad	Reconnect properly Replace Bad bulbs.
Poor Brakes	Worn out Brakes	Replace Brakes.
	Too much play in brake cable	Adjust properly
Noisy Chain	Excessive slack of chain	Adjust & tight properly
	Dry Chain	Put few drops of oil while rotating the wheel by hand

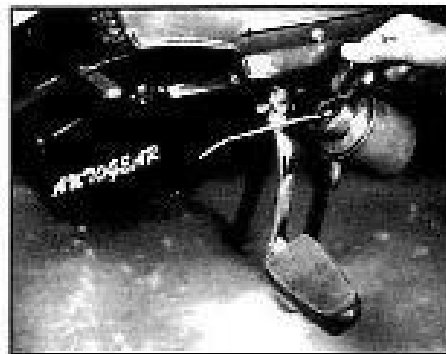
VEHICLE MAINTENANCE

SPARK PLUG CLEANING :



- The gap in the spark plug electrodes should be correctly maintained for optimum fuel consumption and proper running of the vehicle.
- Check electrodes for Carbon deposition or wear after every 2500 Kms (1500 miles)
- For cleaning the plug, use emery paper and then wash in petrol.
- Set the gap between 0.5 mm (0.020 in) to 0.6 mm (0.023 in) and measure it with a feeler Gauge.

Filling of oil in Gear Box :



Adequate quantity of oil in the gear box is necessary to absorb the heat generated by gears and subsequently lubricate to reduce wear and tear of the parts.

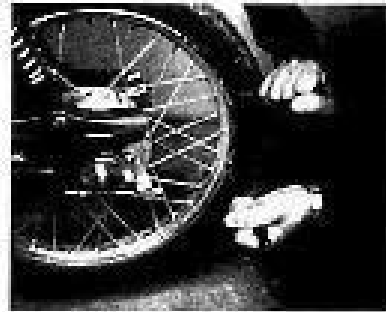
Recommended oil capacity is 350 ml. SAE30 oil ~~HOWEVER~~ A plug is provided to check the oil level. Change the oil after every 3000 kms (1800 miles) of running.

VEHICLE MAINTENANCE

Removal of Rear Tube

Put tyre levers and takeout one side edge of the tyre from the Rim. And then remove the tube by loosening out the nozzle nut on the rim.

ADJUSTING THE CONTROL CABLES.



Adjusting the Control Cable (Front)



Adjusting the Control Cable (Rear)

Play develops due to constant usage of control cables. (Front & Rear Brakes). This results in difficult or ineffective brake operation. To remove this play, each cable is individually provided with an adjuster.

IF BRAKES ARE NOT EFFECTIVE, THEN :

- i Loosen the Adjuster along with the lock nut.
- i Unscrew the Adjuster until the brake inner cable gets pulled and tightened in the brake lever.
- iii Check for proper tightening of brake inner cable by operating Brake lever.
- iv At this position tighten the lock screw against the holder.

VEHICLE MAINTENANCE

MAINTENANCE SCHEDULE

CARRYOUT FOLLOWING CHECKS, ADJUSTMENTS, CLEANING, SERVICING AND LUBRICATION AT INTERVALS MENTIONED BELOW:-

S.No.	Component/Assembly	To be done by		SCHEDULE				
		Customer	Service Station	Initial 1000Kms. (600 Miles)	After 2500Kms. (1500 Miles)	After 5000Kms. (3000 Miles)	After 7500Kms. (4500 Miles)	After 10000Kms. (6000 Miles)
1.	Engine mounting nut & bolts	-	<input type="checkbox"/>	Inspect	Inspect	-	-	Inspect
2.	Axle & Suspension Nut & Bolts	-	<input type="checkbox"/>	Inspect	Inspect	-	-	Inspect
3.	Spark Plug	<input type="checkbox"/>	<input type="checkbox"/>	Clean & adjust the gap	Clean & adjust the gap	-	Change if Necessary	-
4.	Carburettor	-	<input type="checkbox"/>	Service	Service	-	Service	Service if necessary change the jets.
5.	Ignition Circuit	-	<input type="checkbox"/>	Check	Check	-	-	Check
6.	Electrical Connections Light, Horn, Switch etc	-	<input type="checkbox"/>	Check the connection	Check the connection	-	-	-
7.	Cylinder Head	-	<input type="checkbox"/>	-	-	-	Remove Carbon & replace gasket	-
8.	Starting Dec	-	<input type="checkbox"/>	Check & adjust cable	-	-	Check & adjust cable	-
9.	Piston & Rings	-	<input type="checkbox"/>	-	-	-	-	Check & Replace
10.	Cylinder Block	-	<input type="checkbox"/>	-	-	-	Decarbonise if necessary	Check, remove carbon on grooves if necessary
11.	Silencer	-	<input type="checkbox"/>	-	-	-	Decarbonise if necessary.	-
12.	Front Suspension	-	<input type="checkbox"/>	-	-	-	Inspect and fill grease	-
13.	Spokes	-	<input type="checkbox"/>	Inspect	Inspect	Inspect	Inspect	Inspect
14.	Front Steering Bearings	-	<input type="checkbox"/>	Inspect	Inspect & Grease	-	-	Inspect
15.	Petrol cock and Petrol tube	<input type="checkbox"/>	<input type="checkbox"/>	Check	Check	Inspect for leakage	inspect	Inspect, if necessary Change

TECHNICAL SPECIFICATIONS

ENGINE

Single Cylinder, Two Stroke, Air cooled, Gasoline Engine with pedal start

• Bore	-	40.0 mm
• Stroke	-	39.0mm
• Displacement	-	49.0 cc
• Compression Ratio	-	10.8:1
• Ignition	:	23° Before TDC
• Carburettor	:	P60 EA. PACCO
• Air Cleaner	:	WIRE MESH

CHASSIS : Tubular Centrally mounted engine type.

VEHICLE

• Overall length	:	1680 mm (66.141")
• Overall width	:	710 mm (27.952")
• Overall height	:	980 mm (38.582")
• Wheel Base	:	1120 mm (44.094")
• Height of seat	:	725 mm (28.543")
• Road clearance	:	150 MM (5.905")
• Total dry weight	:	69Kgs.
• Tyre Size both	:	2.50" x 16.0"

TRANSMISSION

Transmission from crank shaft to driven gears by centrifugal 2 speed gear box to drive sprocket and final drive by chain and driven sprocket at wheel.

• Primary reduction	:	0.0964
• Secondary reduction	:	0.2223
• Final drive sprockets	:	Z16 x Z32
• Gear box oil capacity	:	350 ml. 60W/90

ELECTRICAL

• Magneto	:	Electronic 12V-50W CDI
• Head Lamp	:	12 Volts 25x25Watts
• Tail Lamp	:	12 Volts 5Watts
• Brake Lamp	:	12 Volts 10 Watts
• Indicator Lamp	:	12 Volts 10 Watts
• Front Suspension	:	Telescopic compression springs
• Rear Suspension	:	Swing Arm type with twin Hydraulic shock absorbers

BRAKES

• Front Brake	:	Internally expanding Brake shoes (Right hand operated)
• Rear Brake	:	Internally expanding Brake shoes (Left hand operated)

TECHNICAL SPECIFICATION

IMPORTANT DATA

Running-in-Period & speed limit	:	For First 500 Kms (300 miles) Run the Vehicle with Maximum speed of 30 kmph. (18.5 MPH)
Engine idling Speed (Max)	:	1550 rpm.
Maximum Speed Attainable	:	50 Kmph. (30 MPH)
Fuel Tank Capacity	:	10 Litres (2.64 U.S. Gallons)
Oil to gasoline ratio (Correct grade of oil in right quantity recommended to avoid excessive carbon deposition or improper lubrication in Engine		Mix 4% 2 Stroke Oil for first 500 kms (300 miles) & 151.5 ml (5.8606 OZ) per US Gallon of Gas. Use 3% 2 Stroke oil after 500 kms (300 miles) & 113.6 ml (4.3954 OZ) per US Gallon of gasoline.
Type Air Pressure		
Front Wheel	:	26 PSI
Rear Wheel	:	34 PSI
Maximum Carrying Capacity	:	130 Kgs (286 lbs)

TECHNICAL SPECIFICATIONS

Note : conversion Ratio :

1 Km = 0.6213 Miles	1 Kg = 2.2046 lb.
1 mm = 0.0393 Inch	1 gm = 0.0352 Oz
1 cc = 0.0610 Cu. Inch	1 Kg/cm ² = 14.2233 psi
1 Liter = 0.2641 US Gallon	

VEHICLE STOPPING

This figure indicates braking performance that can be met or exceeded by the vehicles to which it applies, under different conditions of loading and with partial failures of the braking system. 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 the vehicles to which this table applies : COSMO TOP TANK 50CC MOPED

A. Fully operational service Brake

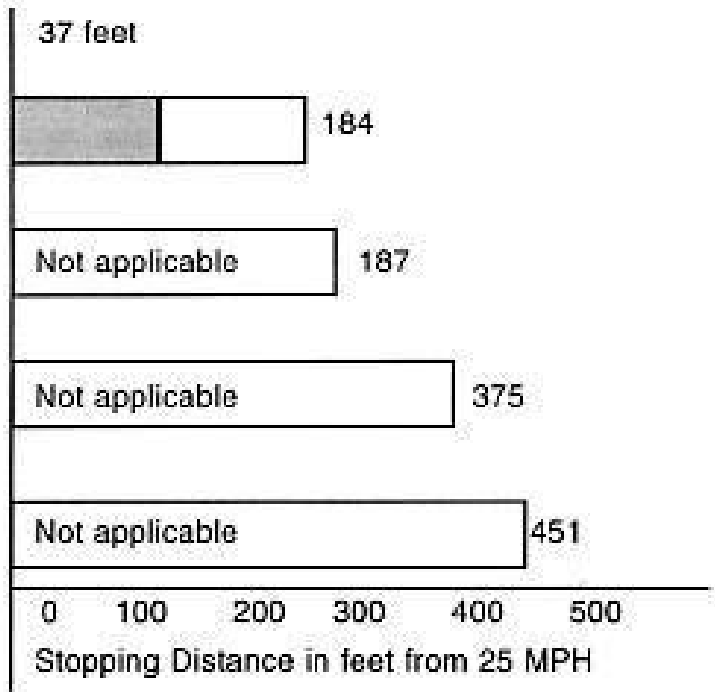
Load
Light

Maximum

**B. Emergency service brake
(with partial service brake system failure.**

C. Brake Power Unit failure

Maximum Load

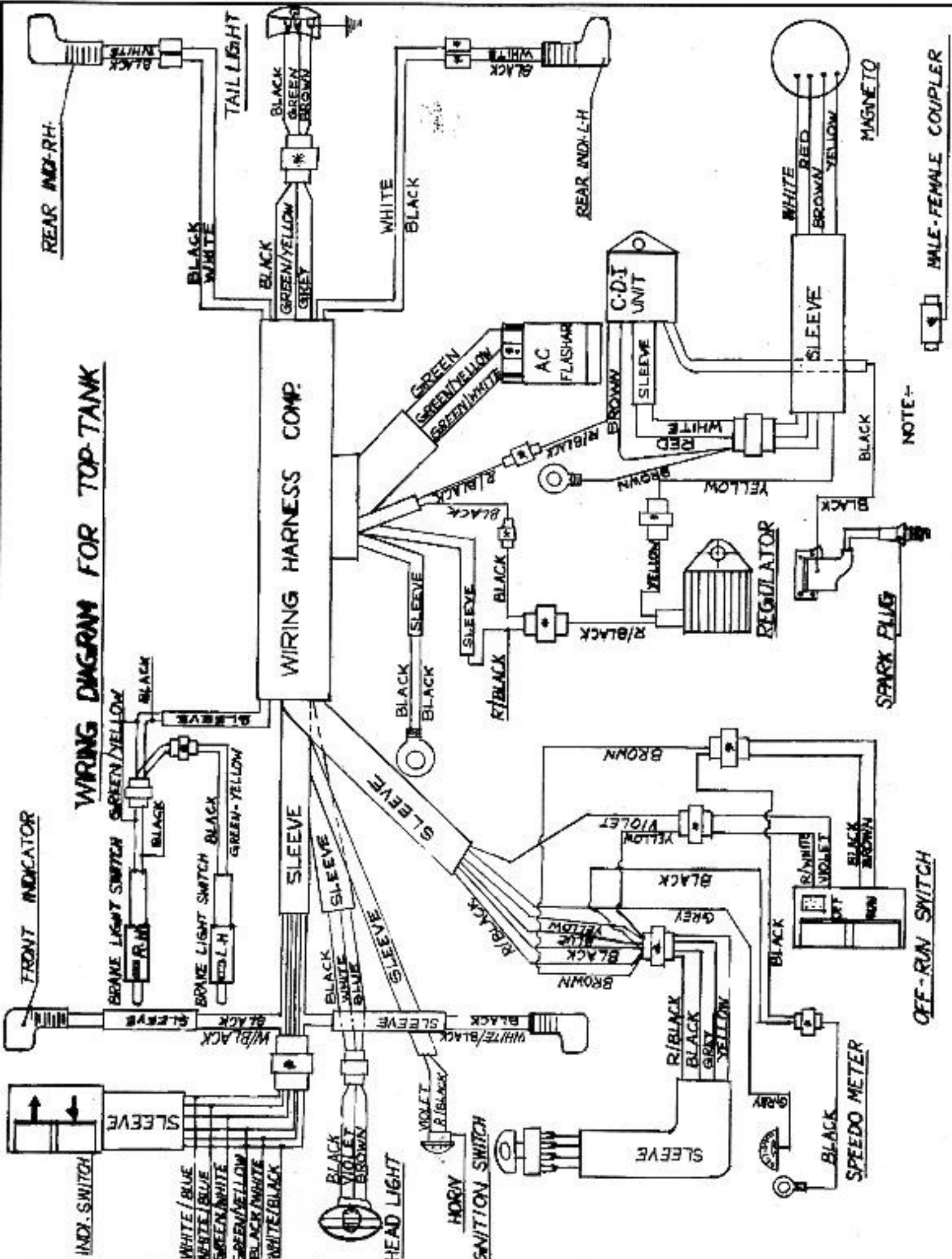


WARNING

SAFETY PRECAUTIONS

- OPERATOR MUST ADHERE TO THESE SAFETY PRECAUTIONS BELOW!
NOT ADHERING TO THEM MAY CAUSE SERIOUS INJURY TO OPERATOR!
- OPERATION OF ANY AND ALL MOPEDS SHOULD ALWAYS BE RESTRICTED TO MATURE AND PROPERLY INSTRUCTED INDIVIDUALS. THIS IS NOT A TOY!
- DO NOT OPERATE MOPED WITHOUT A HELMET, PROTECTIVE APPROVED EYEWEAR AND PROTECTIVE CLOTHING!
- DO NOT START MOPED WHERE YOU MIX FUEL WITH OIL OR YOU FUEL IT.
- DO NOT FUEL MOPED WHILE IT IS RUNNING!
- DO NOT OPERATE MOPED WITHOUT A MUFFLER, DO NOT TOUCH OR LET YOUR BODY COME IN CONTACT WITH A HOT MUFFLER.
- DO NOT ALLOW FUEL, OIL OR DIRT TO BUILD UP ON ENGINE (IT WILL OVERHEAT).
- DO NOT OPERATE MOPED IN AWKWARD POSITIONS (MAXIMUM (1) ONE OPERATOR PER MOPED)
- DO NOT OPERATE MOPED WHILE UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.
- DO NOT ADD, REMOVE OR ALTER ANY COMPONENTS OF THIS PRODUCT, DOING SO CAN CAUSE PERSONAL INJURY AND/OR DAMAGE TO THE MOPED, WHICH WILL VOID THE MANUFACTURER'S WARRANTY.
- DO NOT OPERATE MOPED UNDER ADVERSE WEATHER, ROAD OR HIGHWAY CONDITIONS.
- DO NOT USE ANY OTHER FUEL OR LUBRICANTS THAN THAT RECOMMENDED IN YOUR OPERATION & MAINTENANCE MANUAL.

WIRING DIAGRAM FOR TOP-TANK



FRONT INDICATOR

INDY. SWITCH

WHITE/BLUE
 WHITE/BLUE
 GREEN/WHITE
 GREEN/YELLOW
 BLACK/WHITE
 WHITE/BLACK

FRONT LIGHT SWITCH
 BRAKE LIGHT SWITCH
 BLACK
 GREEN-YELLOW
 BLACK
 GREEN-YELLOW
 BLACK
 SLEEVE

BLACK
 VIOLET
 BROWN

BLACK
 WHITE
 BLUE
 SLEEVE

VIOLET
 R/BLACK

BLACK
 BROWN
 BLACK
 GREY
 BLACK
 R/BLACK
 BLACK
 GREY
 YELLOW
 SLEEVE

BLACK
 R/BROWN
 VIOLET
 BLACK
 BROWN

BLACK
 SLEEVE

BLACK
 WHITE
 BLACK
 GREEN/YELLOW
 GREY
 WHITE
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 BLACK

GREEN
 GREEN/YELLOW
 GREEN/WHITE
 R/BLACK
 BLACK
 SLEEVE
 BLACK
 R/BLACK

AC
 FLASHER
 BROWN
 SLEEVE
 RED
 WHITE
 BROWN
 YELLOW
 BLACK

REGULATOR
 YELLOW
 R/BLACK

C-D-I
 UNIT
 SLEEVE
 RED
 WHITE
 BROWN
 SLEEVE
 BLACK

SPARK PLUG
 BLACK
 SLEEVE
 WHITE
 RED
 BROWN
 YELLOW
 MAGNETO

NOTE:-

MALE-FEMALE COUPLER

CUSTOMER ASSISTANCE PROGRAM

We hope you a long and joyful acquaintance with your new Cosmo Moped. Cosmopolitan Motors customer assistance is just a phone call away at 1-800-523-2522, if you have questions about maintenance , safety, parts, operation or repairs. Please call us, we will be glad to give assistance.

COSMOPOLITAN MOTORS

Cosmopolitan Motors and the producers of this manual are not liable for any claims or financially responsible stemming from any accidents described from the Cosmopolitan Cosmo Top Tank moped listed in this manual.

301, JACKSONVILLE ROAD
PHONE : 2150672-9100
FAX : 215-672-9103
1-800-523-2522



Cosmopolitan Motors

FOR PARTS & SERVICE CALL 1-800-523-2522

PARA PIEZAS SERVICIO LLAME
1-215-672-9100
FAX : 1-215-672-9103

POUR LES PIECES DETACHEES ET LE
SERVICE APPELEZ
1-215-672-9100
FAX : 1-215-672-9103

PARA PECAS SOBRESSALENTES E
ESTACAO DE SERVICIO
TELEFONA 1-215-672-9100
FAX : 1-215-672-9103