A Starting lever

B Lever to engage pedals

C Oil filler cap

D Drain plug

E Holes for greasing
Brakes:
Both wheels are equipped with disk brakes operated by independent hand-levers.

Lighting:
Lighting and signaling device as per regulations.

Performance:
Maximum speed: 40 kms per hour

Weight:
Empty weight: 32 kilos

Fuel consumption:
(C.U.N.A. Regulations): 1.5 liter/100 Kms

STARTING THE ENGINE
1) Make sure that the fuel tank contains enough gasoline
2) Make sure that Lever « B » (see illustration) is in the « M » position
3) Open the fuel tap and lower the little lever located on the carburator.
4) Ride the first few yards using the pedals.
5) After a few thrusts on the pedals turn the throttle gently to gain speed and pull the clutch lever « A ». Release the lever as soon as the engine starts.
6) Operate the twist-grip to accelerate progressively till the little lever situated on the carburator is fully released.
7) Should you occasionally wish to use your moped as an ordinary bicycle without using the engine, press lever « B » till it reaches position « P ».
While riding on very steep gradients, it is possible to help the engine by working the pedals. Should the engine work be uneven or should the engine stop suddenly, proceed as follows:

1) Ensure that there is enough fuel in the tank and that the mixture can reach the carburator.

2) Inspect the sparking plug and clean it properly, if necessary.

In case the engine should not work after this simple operation, riders are advised to apply to the nearest mechanic and delegate the repair to him. Being extremely simple, the vehicle can be easily put in full working order.

MAINTENANCE

Your moped has been so designed that only the minimum maintenance is required.

We would however recommend some simple operations which, if duly carried out from time to time, will certainly secure your motor-bicycle of an excellent performance and a long life.

The engine contains some oil that lubricates the transmission gear. When the running-in period is over, it will be necessary to change the oil. To perform this operation in the correct manner, unscrew the lower cap «D» when the engine is hot. Allow the oil to drain and position the cap again. Open the upper cap «C» and replenish with fresh oil up to the hole level. Use oil SHELL X 100 MOTOROIL SAE 40. Successive inspections may be limited to checking the oil level and to ensuring that same is always the highest. If necessary add some fresh oil and replace the whole quantity every 5000 kms.

From time to time it is advisable to lubricate the front fork inserting some grease through hole «E».
RUNNING-IN

During the first few miles riders are advised not to turn the throttle more than the first half of its full opening, thus not exceeding the speed of 25/30 Kms per hour.

The running-in period is over after a 10-liter fuel consumption.

During the early period of the machine's life, the owner is advised to avoid steep slopes, if possible, and not to stress the engine excessively.

Owing to the initial bedding-down process, many parts (brakes, clutch, screws and bobs) must be adjusted. Riders should perform this operation as soon as they judge it necessary.
TECHNICAL DATA

ENGINE:

Special Cast Iron Single Cylinder - Two cycle Engine
Stroke: 38 mm
Total Piston Displacement: 47.8 cu cms
Compression Ratio: 1 : 6
Horse Power Output: 1.49 HP at 4200 r.p.m.
Feeding: petrol at 5 % It is recommended to use SAE OIL 30
Fuel tank capacity: 3 liters
Carburator: Dell’Orto Type SHA 14/12 with cold start device

Ignition: The ignition process is effected by a 6-volt 18-watt alternator flywheel with a contact-breaker incorporated
Platinum Points: distance 0.4 mm
Sparking Plug: W 240 T1 Bosch
Clutch: automatic clutch by centrifugal mass in oil bath:

Transmission:

Gear transmission connecting engine with pedals
Chain transmission connecting pendals with rear wheel

Frame:

Tubular frame with stamped plate rear fork.
Front wheel suspension by telescopic fork.
Wheels: front and rear rim 24 x 1 ¾
Tires: 24 x 1 ¾
When ordering some spare parts, customers are kindly requested to specify the vehicle number impressed on the left member of the fork.
**Illustration 1 - CRANKCASE - CYLINDER - CYLINDER HEAD**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>10001</td>
<td>R.H. and L.H. inner crankcase</td>
<td>10020</td>
<td>Cylinder head</td>
</tr>
<tr>
<td>10002</td>
<td>Rubber (for flywheel cables)</td>
<td>10021</td>
<td>Gasket (for exhaust pipe)</td>
</tr>
<tr>
<td>10003</td>
<td>L. H. Cover (on the clutch side)</td>
<td>10022</td>
<td>Gasket (for suction manifold)</td>
</tr>
<tr>
<td>10004</td>
<td>R. H. Cover (on the flywheel/magneto side)</td>
<td>10023</td>
<td>Suction manifold</td>
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<tr>
<td>10005</td>
<td>Stud (holding head and cylinder)</td>
<td>10024</td>
<td>Stud (retaining manifold)</td>
</tr>
<tr>
<td>10006</td>
<td>Nut</td>
<td>10025</td>
<td>Nut</td>
</tr>
<tr>
<td>10007</td>
<td>Washer</td>
<td>10026</td>
<td>Spring washer</td>
</tr>
<tr>
<td>10008</td>
<td>Screw (retaining clutch cover and chain guard)</td>
<td>10027</td>
<td>Stud (retaining exhaust pipe)</td>
</tr>
<tr>
<td>10009</td>
<td>Screw (retaining clutch cover)</td>
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<td>Spring washer</td>
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<tr>
<td>10010</td>
<td>Screw (holding inner crankcase)</td>
<td>10029</td>
<td>Bush (centering crankcase)</td>
</tr>
<tr>
<td>10011</td>
<td>Stud (holding inner crankcase)</td>
<td>10030</td>
<td>Stud (retaining engine to saddle hold)</td>
</tr>
<tr>
<td>10012</td>
<td>Drain plug</td>
<td>10031</td>
<td>Lever (operating pedal-unit clutch)</td>
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<tr>
<td>10013</td>
<td>Fiber washer</td>
<td>10032</td>
<td>Fork</td>
</tr>
<tr>
<td>10014</td>
<td>Crankcase circlip</td>
<td>10033</td>
<td>Gasket</td>
</tr>
<tr>
<td>10015</td>
<td>Bush for camshaft (flywheel side)</td>
<td>10034</td>
<td>Circlip</td>
</tr>
<tr>
<td>10016</td>
<td>Bush for camshaft (clutch side)</td>
<td>10035</td>
<td>Spring</td>
</tr>
<tr>
<td>10017</td>
<td>Gasket for cover (clutch side)</td>
<td>10036</td>
<td>Ball</td>
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<tr>
<td>10018</td>
<td>Gasket (for cylinder base)</td>
<td>10037</td>
<td>Clutch operating lever</td>
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<tr>
<td>10019</td>
<td>Cylinder</td>
<td>10038</td>
<td>Spring</td>
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<tr>
<td></td>
<td></td>
<td>10039</td>
<td>Screw</td>
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</table>

**Illustration 2 - ENGINE - CLUTCH - PEDAL UNIT**

<table>
<thead>
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<th>Code</th>
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<tr>
<td>11000</td>
<td>Nut (retaining flywheel)</td>
<td>11034</td>
<td>Oil seal</td>
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<tr>
<td>11001</td>
<td>Washer</td>
<td>11035</td>
<td>Pedal crank</td>
</tr>
<tr>
<td>11002</td>
<td>Oil seal</td>
<td>11036</td>
<td>R. H. Pedal</td>
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<tr>
<td>11003</td>
<td>Journal ball bearing</td>
<td>11037</td>
<td>Crank key</td>
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<tr>
<td>11004</td>
<td>Washer</td>
<td>11038</td>
<td>Plate disk</td>
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<tr>
<td>11005</td>
<td>Axle shaft (flywheel side)</td>
<td>11039</td>
<td>Pallet</td>
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<tr>
<td>11006</td>
<td>Woodruff key</td>
<td>11040</td>
<td>Spring</td>
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<tr>
<td>11007</td>
<td>Axle shaft (clutch side)</td>
<td>11041</td>
<td>Circlip</td>
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<tr>
<td>11008</td>
<td>Connecting rod with bush</td>
<td>11042</td>
<td>Oil seal</td>
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<tr>
<td>11009</td>
<td>Small end bush</td>
<td>11043</td>
<td>Freewheel bush</td>
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<tr>
<td>11010</td>
<td>Connecting rod cage (complete with rollers)</td>
<td>11044</td>
<td>Sprocket</td>
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<tr>
<td>11011</td>
<td>Connecting rod cage (without rollers)</td>
<td>11045</td>
<td>Rivet</td>
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<tr>
<td>11012</td>
<td>Roller</td>
<td>11046</td>
<td>Rubber washer</td>
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<td>11013</td>
<td>Crankpin</td>
<td>11047</td>
<td>Ball bearing</td>
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<tr>
<td>11014</td>
<td>Piston (bare)</td>
<td>11048</td>
<td>Circlip locating ball bearing (25 mm)</td>
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<td>11015</td>
<td>Gudgeon pin</td>
<td>11049</td>
<td>Bush coupling pedal unit</td>
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<tr>
<td>11016</td>
<td>Circlip (gudgeon pin fixing)</td>
<td>11050</td>
<td>22 mm. circlip</td>
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<td>11017</td>
<td>Compression piston ring</td>
<td>11051</td>
<td>Pedal unit gear</td>
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<td>11018</td>
<td>Washer</td>
<td>11052</td>
<td>Washer</td>
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<tr>
<td>11019</td>
<td>Complete clutch unit (gears and lining)</td>
<td>11053</td>
<td>Ball bearing</td>
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<tr>
<td>11020</td>
<td>Clutch driving pinion with bush</td>
<td>11054</td>
<td>Oil seal</td>
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<td>11021</td>
<td>Bush (for clutch driving pinion)</td>
<td>11055</td>
<td>Washer</td>
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<tr>
<td>11022</td>
<td>Clutch cover (bare)</td>
<td>11056</td>
<td>L. H. pedal crank</td>
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<tr>
<td>11023</td>
<td>Clutch cover with lining</td>
<td>11057</td>
<td>L. H. pedal</td>
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<td>11024</td>
<td>Friction facing</td>
<td>11058</td>
<td>Pedal unit shaft</td>
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<tr>
<td>11025</td>
<td>Rivet</td>
<td>11059</td>
<td>Shaft</td>
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<td>11026</td>
<td>Clutch centrifugal washer</td>
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<td>Pin</td>
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<tr>
<td>11027</td>
<td>Clutch centrifugal unit</td>
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<td>Shock absorber gear</td>
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<td>Dowel</td>
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<td>Shock absorber plate</td>
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<td>Return spring</td>
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<td>Shock absorber rubber piece</td>
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<td>Lock washer</td>
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<td>Rubber piece plaque</td>
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<td>Clutch retaining nut</td>
<td>11065</td>
<td>Plate (locating rubber pieces)</td>
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<tr>
<td>11032</td>
<td>Pressure arms</td>
<td>11066</td>
<td>Securing circlip</td>
</tr>
<tr>
<td>11033</td>
<td>Bush</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Illustration 3 - FRAME - SADDLE - FENDER - TELESCOPIC FORK

12000 Frame
12001 Rear fender (front section)
12002 Rear fender (rear section)
12003 Luggage-carrier (front section)
12004 Luggage-carrier (rear section)
12005 Complete rear fender
12006 Complete luggage-carrier
12007 Screw
12008 Mudflap
12009 Bracket (fixing fender)
12010 Carrier supporting rod
12011 Distance piece
12012 Washer
12013 Screw
12014 Fuel tank
12015 Fuel tank filler cap
12016 Fuel cock
12017 Strap (holding fuel tank)
12018 Saddle unit (complete with support pillar and screw)
12019 Saddle
12020 Saddle supporting pillar
12021 Stud (fixing saddle to pillar)
12022 Nut
12023 Bush
12024 Screw (fixing saddle pillar to saddle tube)
12025 Nut
12026 Spring washer
12027 Screw
12028 Chain guard
12029 Stand (complete)
12030 Stand bar
12031 Rubber foot for stand
12032 Bracket
12033 Spring
12034 Cap
12035 Stud (fixing engine)
12036 Nut
12037 Washer
12038 Threaded fork stem cone and hub
12039 Fork stem cone (not threaded)
12040 Cup
12041 Washer
12042 Ball
12043 Distance piece
12044 Stem gudgeon
12045 Nut
12046 Washer
12047 Front fork (complete)
12048 Top lug
12049 Lower lug
12050 Fork bearing stanchion (with tie rod)
12051 Upper spring
12052 Lower spring
12053 Stanchion (bare)
12054 Tie rod
12055 Washer
12056 Indented washer
12057 Bush
12058 Adaptor
12059 Adaptor (for rear fender)
12060 Bracket
12061 Front fender
12062 Fender support
12063 Muffler
12064 Exhaust pipe
12065 Gasket
12066 Baffle plate
12067 Muffler cover
12068 Fuel pipe
12069 Nut
12070 Bracket (fixing saddle)

Illustration 4 - WHEELS - HUBS - HANDLEBAR - CABLES

13000 Wheel rim
13001 Spoke with nipple
13002 Tire
13003 Tube
13004 Rim Bead
13005 Hub (complete)
13006 Hub (bare)
13007 Distance piece
13008 Chain stretcher
13009 Sprocket wheel
13010 Screw
13011 Brake disk
13012 Hub (front wheel)
13013 Hub (rear wheel)
13014 Bracket
13015 Brake arm (inside)
13016 Brake arm (outside)
13017 Brake lining
13018 Spring
13019 Nut (brake adjuster)
13020 Screw (brake adjuster)
13021 Chain
13022 Chain link
13023 Handlebar (bare)
13024 Support (of handlebar)
13025 Nut (fixing handlebar)
13026 Throttle (without twistgrip)
13027 Throttle bracket
13028 Screw
13029 Dowel (fixing throttle to handlebar)
13030 Twistgrip (R. H.)
13031 Twistgrip (L. H.)
13032 Twistgrip
13033 Support (holding front brake lever)
13034 Support (holding rear brake lever)
13035 Lever (operating brake)
13036 Screw (fixing lever)
13037 Nut
13038 Support (holding clutch lever)
13039 Clutch operating lever
13040 Screw (fixing lever) 13049 Throttle cable (complete)
13041 Bush 13050 Cone-shaped cable stop
13042 Front brake cable (complete) 13051 Cable clamp bolt
13043 Rear brake cable (complete) 13052 Clutch adjuster (complete)
13044 Clutch cable (complete) 13053 Brake cable terminal
13045 Front brake cable (bare) 13054 Throttle adjusting screw
13046 Rear brake cable (bare) 13055 Spring
13047 Sheath (front brake cable) 13056 Sheath clamp.

Illustration 5 - LIGHTING - TOOLKIT

14000 Flywheel magneto 14026 Screw
14001 Flywheel rotor 14027 Spring (fixing parabolic reflector set)
14002 Stator plate (complete) 14028 Screw (fixing lamp rim)
14003 Stator plate (bare) 14029 Lighting switch (complete with cables)
14004 H. T. coil (with sparking plug cable) 14030 Set of cables
14005 Sparking plug cable 14031 Cable (for lighting)
14006 Bush 14032 Tail lamp
14007 Lighting coil 14033 Reflector rim
14008 Condenser 14034 Shell
14009 Contact breaker 14035 Elongated bulb
14010 Set of washers (for contact breaker) 14036 Nut
14011 Set of washers and nut (to hold contact) 14037 Screw (fixing lamp rim)
14012 Coll fixing screw 14038 Buzzer (complete)
14013 Washer 14039 Bracket
14014 Screw (fixing condenser) 14040 Gasket
14015 Screw (fixing contact breaker to stator plate) 14041 Screw
14016 Screw (fixing stator plate) 14042 Inflator (with connection)
14017 Sparking plug cover 14043 Connection
14018 Sparking plug 14044 Toolkit (complete with bag)
14019 Headlamp (with lighting switch) 14045 Plug box wrench
14020 Headlamp shell 14046 Spanner
14021 Parabolic reflector set 14047 Tire lever
14022 Lamp rim 14048 Screwdriver
14023 Lower beam lamp 14049 Cloth toolbag
14024 Side light lamp 14050 Toolkit box with lid
14025 Grommet 14051 Box lid
14052 Rivet

Illustration 6 - CARBURATOR

1104-37 Adjuster (throttle cable) 6107-96 Float chamber
1486-02 Jet 6108-64 Throttle valve
1691-27 Nut (cable adjuster) 6109-29 Fuel filter
2838-05 Needle 6110-53 Valve cover
3318-36 Screw (fixing valve cover) 6111-30 Gasket (for valve cover)
3346-61 Return spring 6112-26 Lever
3385-30 Gasket (for screw fixing fuel pipe) 6114-64 Valve
3598-36 Screw (fixing float chamber) 6115-22 Lever pin
3606-61 Spring (for adjusting screw) 6117-86 Filter
4190-36 Screw (fixing pipe) 6122-80 Float
4226-85 F.27 muffler cowling 6123-30 Gasket (for float chamber)
4560-22 Float pin 6140-37 Adjusting screw (for slow running
4611-50 Ring (holding cowling) float)
4617-36 Screw (fixing ring) 6159-30 Gasket (for filter)
4879-35 Air inlet pipe 6259-61 Valve return spring
5417-22 Valve pin 6304-27 Link (for screw fixing sleeve)
6105-61 Valve return spring 6305-36 Screw (fixing sleeve)
6106-38 Pipe (fuel feed) 6448-62 Insulating piece
1502 Carburetor (complete with throttle