

*by Italtelai*

# OWNER'S MANUAL

## **PACER MOPED**

*A Division Of*

**AEON INTERNATIONAL CORPORATION**

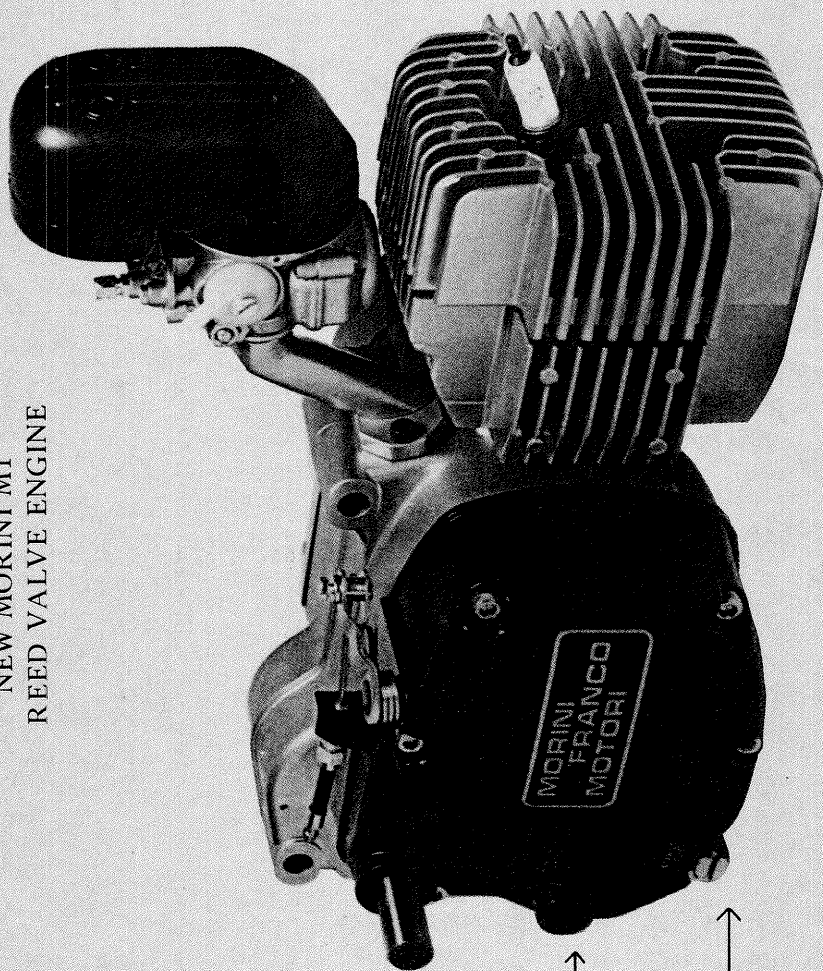
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*Exclusive U.S.A. Importer and Distributor*

NEW MORINI M1  
REED VALVE ENGINE



No. 1 - Screw Cap Oil Check  
and Fill

No. 2 - Screw Oil Drain

FIGURE NO. 1

## **IMPORTANT**

***Please Read Carefully***

### **Fuel/Oil Mixture**

Your Moped engine operates on a mixture of gasoline and oil. Use regular gasoline and either a quality grade two cycle organic (conventional) motor oil or synthetic motor oil.

If organic oil is used, mix 20 parts gasoline with 1 part oil, (20 to 1).

If synthetic oil is used, mix 50 parts gasoline with 1 part oil, (50 to 1).

Unless these mixture ratios are adhered to each time you refuel, your engine may be damaged beyond repair. Such damage is not covered by your PACER Limited Warranty.

Do not use unleaded gasoline.

When you refuel, use a separate mixing can to premix gasoline and oil. Pour oil into the can first, then add regular gasoline and shake well.

If you have any questions regarding the fuel/oil mixture for your Moped, please consult your PACER dealer.

## LUBRICATION

### **Cylinder**

Lubrication of the cylinder is taken care of by the Fuel/Oil mixture, (described on pg. 1).

### **Clutch and Transmission**

The clutch and transmission are lubricated by an oil bath. Use only non-detergent oil, SAE 20 for winter and SAE 30 for summer. The oil level should be checked every 250 miles.

To check the oil level, remove the screw cap (No.1 in Figure 1) on the right crankcase cover. (Screw cap may be removed and replaced by hand; be sure to tighten securely.) If oil level is normal, oil may drip out when screw cap is removed. If level is below normal, add oil through the screw cap hole, until it drips out.

### **To Change Crankcase Oil**

Remove lower screw (No.2 in Figure 1) on the right crankcase cover. (A screwdriver is needed to remove and replace this screw.) The engine should be warm to allow oil to drain freely. After draining, replace lower screw (No.2) and refill through screw cap hole (No.1) using recommended SAE No. oil. Replace screw cap.

### **Oil Change Schedule.**

1. After 500 miles.
2. Every 1,000 miles thereafter

## STARTING ENGINE

Your PACER MOPED may be started while on its center stand or by pedaling.

### **A. To Start on the Stand**

1. Set Moped on center stand
2. Ignition switch to "RUN" position.
3. Fuel selector valve "ON", (Petcock arm down).
4. Open choke, (lever down toward engine).\*
5. Rotate pedal to top position, to use as kick starter.
6. Engage clutch, (lever on left handlebar).
7. Rotate throttle control  $\frac{1}{4}$  turn.
8. Step down quickly on pedal -(Engine should start - If not, repeat steps 6, 7 and 8.)
9. When engine starts, release clutch lever.
10. When engine is warm, rotate throttle control quickly to full open position and choke will automatically close, (lever to up position).

### **B. To Start by Pedaling**

1. Ignition switch to "RUN" position.
2. Fuel selector valve "ON" (Petcock arm down).
3. Open choke (lever down toward engine).\*
4. Pedal like a normal bicycle.
5. When speed is 5-8 m.p.h., engage clutch, (lever on left handlebar) and rotate the throttle control  $\frac{1}{4}$  turn.
6. When engine starts, release clutch lever and accelerate by turning throttle control.
7. When engine is warm, rotate throttle control quickly to full open position and choke will automatically close, (lever to up position).

\*Especially for cold weather starts.

## STARTING PROBLEMS

If you take proper care of your Moped the engine should start easily, even in cold weather. If, after several attempts, you experience difficulty, the following checklists might assist you.

**1. Fuel is not reaching the carburetor. Be sure that:**

- a. Fuel tank is not empty.
- b. Fuel shut-off valve is in "ON" position.
- c. Fuel line is not clogged or pinched.
- d. Fuel tank vent is not blocked.
- e. Carburetor is not dirty.

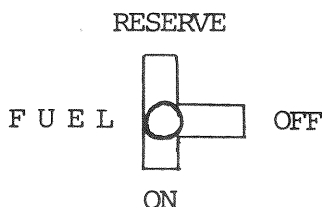
**2. Engine is not getting spark. Be sure that:**

- a. Ignition switch is "ON".
- b. Spark plug is not dirty. If it is, check the gas/oil mixture which should be 20:1 (or 50:1 if synthetic motor oil is used). Also check the spark plug gap which should be .024".
- c. Spark plug is not cracked and is producing a spark. To check, remove spark plug from engine and re-attach plug wire. Ground plug to engine and attempt to start; spark should jump from plug to engine. If not, change plug and repeat procedure.

## STOPPING ENGINE

To stop engine, return throttle control to closed position and switch ignition "OFF". CAUTION - Do not attempt to stop engine by engaging the clutch as serious engine damage could result.

Before leaving your Moped,  
set fuel selector valve to  
"OFF" position.



## RUNNING OUT OF GAS

Should you run out of gas while your fuel selector valve is in the "ON" position, simply switch to "RESERVE". The tank's reserve capacity will then provide fuel for about 30 miles of operation. Should the reserve capacity run dry, your Moped may be pedaled as a bicycle to the nearest gas station.

## MUFFLER

The muffler on your Moped has been tested and meets decibel regulations currently in force. Modifying the muffler will not improve performance as the muffler has been designed specifically for this engine. Modification may result in exceeding the established noise limits and will void your PACER MOPED Limited Warranty.

### BREAK-IN PERIOD

To insure long engine life and proper performance, it is important to follow these recommendations during the first 300 miles of operation:

1. Do not exceed 15 m.p.h.
2. Do not repeatedly climb steep hills at full throttle.
3. Use recommended gas/oil mixture of 20:1, (or 50:1, if using synthetic motor oil).

### GENERAL INFORMATION AND ADJUSTMENTS

**Tires** - Maintain tire pressure of 22 lbs. front and 36 lbs. rear. Be sure to check pressure when tires are 'cold', before operating your Moped.

**Lock** - Your Moped is equipped with a front fork lock and a duplicate set of keys. The duplicate key should be stored in a safe place.

**Cables** - Periodically, the brake cables should be lubricated and tightened. Adjustment screws at the brake levers and at each wheel are used to tighten the cables.

**Chain** - Occasionally lubricate the drive chain, using light weight lubricant.

- The drive chain should have ½" of play. If it does not, place Moped on center stand and adjust by loosening both rear axle nuts and rotating the eccentric adjusters on each side of the same position. (This will insure wheel alignment.) Maintain the desired adjustment while tightening the axle nuts.



## WARRANTY SERVICE SCHEDULE

Your PACER MOPED must be returned to an authorized PACER dealer for the service procedures described below, in order to comply with the terms of your PACER Limited Warranty. This will also assure you of maximum product satisfaction, in the months and years ahead.

### 100 Mile Check-Up

- 1) Check all cables for proper tension.
- 2) Tighten all frame nuts and bolts.
- 3) Check chain drive tension.
- 4) Check spark plug gap (.024").
- 5) Check carburetor fuel filter and air cleaner.  
Clean if necessary

### 500 Mile Check-Up

- 1) Repeat procedures under 100 Mile Check-Up.
- 2) Check magneto point gap (.014"-.018").
- 3) Change Oil.

## MAINTENANCE SCHEDULE

For full maintenance schedule during and after Warranty Period, please refer to the chart on the following page.

# MAINTENANCE CHART

	Odometer Reading (Miles)						
	At first 100 Miles	At first 500 Miles	1000	1500	2000	2500	3000
Check Tire Pressure	X	X	X	X	X	X	X
Check Tire Condition		X	X	X	X	X	X
Check Transmission Oil Level	X		X		X		X
Check Transmission Oil		X		X		X	
Inspect Spark Plug	X	X	X	X	X	X	X
Check Magneto Point Gap and Ignition Timing		X		X		X	
Clean Carburetor				X			X
Check Idle Speed	X	X	X	X	X	X	X
Re-Torque Bolts and Nuts	X	X			X		
Clean Fuel Tank and Filter		X			X		
Decarbonize Engine				X			X
Adjust Clutch Cable		X		X		X	
Adjust Brake Cables		X	X	X	X	X	X
Inspect Brakes		X		X		X	
Adjust Throttle Cable		X		X		X	
Clean Air Filter				X			X
Clean, Lubricate and Adjust Drive Chain		X		X		X	
Re-Pack Wheel Bearings							X
Lubricate All Cables		X		X		X	
Adjust Headset Bearings		X			X		
Re-Pack Headset Bearings							X
Replace Muffler							X

**NOTE:** Operations called for under "First 100 Miles" and "First 500 Miles" must be performed by dealer in order for warranty to be valid.

**TIME ALLOWANCE:** The following times are presented as an aid in computing labor costs for various maintenance operations.

First 100 Mile Maintenance 15 minutes

First 500 Mile Maintenance 2.0 hours

