SINEMATE 1500 MANUAL
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Digital Inverter Generator
SINEMATE SERIES
Model 1500

OPERATING INSTRUCTIONS
PLEASE READ THIS MANUAL CAREFULLY BEFORE USING MACHINE
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PREFACE

Thank you for purchasing our generator
This manual covers operation and maintenance of Sinemate 1500.
All information in this publication is based on the latest product information available at the
time of approval for printing.
We reserve the right to make changes at any time without notice and without incurring any
obligation.
No part of this publication may be reproduced without written permission.
This manual should be considered a permanent part of the generator and should remain with it if
it is resold.

Pay special attention to statements preceded by the following words:

⚠️ WARNING

It indicates a strong possibility of severe personal injury or death if instructions are not
followed.

⚠️ CAUTION

It indicates a strong possibility of severe personal injury or death if instructions are not
followed.
If a problem should arise, or if you have any questions about the generator, consult an
authorized dealer.

⚠️ BE CAREFUL

The generators are designed to give safe and dependable service if operated according to
instructions. Read and understand the Owner’s Manual before operating the generator. Failure to
do so could result in personal injury or equipment damage.
Safety Instructions

⚠️ Warning

- The generator is designed to give safe and dependable service if operated according to instructions. Read and understand this manual carefully before operating the generator, or it may cause serious injury and equipment damage.

⚠️ Warning

- Exhaust contains poisonous carbon monoxide. Do not operate generator in confined area. Be sure to operate the generator in a well-ventilated environment or with an aerator. Using a generator indoors will kill you in minutes. Never use in the home or in a partly enclosed area such as garages. Only use outdoors and far from open windows doors and vents.

⚠️ Warning

- The muffler becomes very hot during operating and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot. Let the engine cool before storing the generator indoor.
- The engine exhaust system will be heated during operation and remain hot immediately after stopping the engine. To prevent burns, pay attention to the warning marks attached to the generator.

⚠️ Be careful

- Do not parallel connect other cables to receptacles, use special jack, or it may cause an electrical shock.
Warning

- Gasoline is extremely flammable and is explosive under certain conditions. Refuel in a ventilated area with engine stopped.
- Keep away from cigarette, smoke and sparks when refueling the generator. Always refuel in a well-ventilated location.

Warning

- Connection for standby power to a building electrical system must be made by a qualified electrician. The connection must isolate the generator from utility power, and must comply with all applicable laws and electrical codes. Improper connections to a building electrical system can allow electrical current from the generator to backfeed into the utility lines. Such backfeed may electrocute utility company workers or others who contact the lines during a power outage, and the generator may explode, or cause fires when utility power is restored.

Warning

- To avoid accidents and equipment damage, check generation system every time before starting engine.
- Keep the generator a distance of at least 1 yard from other equipment during operation.
- Keep the generator horizontal when running. If generator tilts, fuel may leak.
- Generator operators must be trained, must know how to stop the generator quickly and understand the operation of all controllable parts. Untrained operators should not be allowed to use this equipment.
- Keep children and pets away from operation area.
- Keep away from rotating parts during operation.
- The generator is a potential source of electrical shock when misused. Do not operate it with wet hands or in any wet location.
- Do not operate the generator in rain or snow and let it get wet.
Safety Label and Locations

These labels warn you of potential hazard that can cause serious injury. Read the labels and safety notes and precautions described in manual carefully.
Component Identification

- air vent knob
- fuel cap
- left-side maintenance cover
- starting grip
- fuel valve knob
- top maintenance cover
- muffler
- control panel
Control panel

![Control panel diagram]

Smart Throttle

To minimize fuel consumption during operation, the engine automatically idles when the electrical appliance is disconnected. It will return to the proper speed when the electrical appliance is connected.

⚠️ Caution

- Smart throttle system does not operate effectively, if the electrical appliance requires the momentary electric power.
- When high electrical loads are connected simultaneously, turn the Smart throttle switch to the OFF position to reduce voltage vibration.
- In DC operation, turn the Smart throttle switch to the OFF position.

Pre-operation check

⚠️ Caution

- Be sure the generator is on a level surface with engine stopped before starting.
1. Check engine oil level

**Be careful**

- Engine oil is a major factor affecting engine performance and service life. Using non-detergent and 2-stroke engine oils will damage the engine and are not recommended, and will void warranty!
- Use high-detergent, qualified 4-stroke engine oil, certified to meet or exceed U.S automobile manufacture’s requirements for API Service Classification SG, SF.
- Select the appropriate viscosity for the average temperature in your area.

SAE viscosity grades:

<table>
<thead>
<tr>
<th>Single viscosity</th>
<th>Multi viscosity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10F</td>
<td>20F 20W</td>
</tr>
<tr>
<td>20F</td>
<td>20W 30</td>
</tr>
<tr>
<td>5W-30</td>
<td>5W-40 10W-30</td>
</tr>
<tr>
<td>10W-40 15W-50</td>
<td>10W-40 10W-40</td>
</tr>
<tr>
<td>20W-50</td>
<td>20W-40 20W-50</td>
</tr>
<tr>
<td>30W-50</td>
<td>30W-50</td>
</tr>
<tr>
<td>40W-70</td>
<td>40W-70</td>
</tr>
</tbody>
</table>

Loosen the cover screw and remove the maintenance cover.
Remove the oil filler cap and wipe the dipstick with a clean rag. Check the oil level by inserting the dipstick in the filler hole without screwing it in.
If the oil level is below the end of the dipstick, refill the recommended oil up to the top of the oil filler neck.

**Be careful**

- Running the engine with insufficient oil can cause serious engine damage.
- The Low Alarm System will automatically stop the engine before the oil level falls below the safe limit. To avoid the inconvenience of an unexpected shutdown, it is still advisable to visually inspect the oil level regularly.
2. Check the fuel level

Use automotive gasoline (unleaded or low-lead gasoline is preferred to minimize combustion chamber deposits)
If the fuel level is low, refuel until the level increased to the specified mark.
Never use stale or contaminated gasoline or an oil/gasoline mixture.
Avoid getting dirt and water in the fuel tank.
Tighten the fuel filler cap securely after adding fuel.
3. Check air filter
   Check air filter, and be sure it’s clean and works well.
   a. Loosen the cover screw and remove the maintenance cover
   b. Loosen the screw under the air filter box.
   c. Pull the air filter cover down 1.25 inches according to (a) and remove the air filter cover according to (b).
   d. Remove the air filter iron clip and element. Clean and change the air filter element if necessary.
   e. Clean or replace the air filter element after reinstalling air filter
**Be careful**

- Never operate the engine without air filter. Rapid engine wear will result from contaminants, such as dust and dirt, being drawn through the carburetor into the engine.

It is normal for a little oil to appear under the air filter box if the generator is running for a long period of time, or a lot of oil is in the engine. Wipe up excess oil after each use and after stopping the generator.

---

**Start the engine**

Before starting the engine, disconnect any plug from the AC socket.

1. **Turn the air vent knob on the fuel cap counter-clockwise**

   ![Air vent knob diagram](image)

2. **Turn the fuel valve knob to the ON position**

   ![Fuel valve knob diagram](image)
3. To start a cool engine, pull out the choke knob completely to the CLOSED position. To restart a warm engine, press the choke knob in completely to the OPEN position.

---

**A Be careful**

Controlling the choke position is the key to starting the engine, it may take several practice attempts before you master the choke.

To restart a hot engine, leave the choke in the OPEN position or pull it out half way. To restart a warm engine, pull out the choke 1/3 or 1/2 way.

A hot engine will not start if there is too much gasoline in the cylinder. If this happens, wait 5-10 minutes before retrying. Press the chock in completely to the OPEN position and the engine should start.

The engine will stop automatically when it is out of gasoline. Refuel accordingly to the instructions defined earlier in this manual. To restart the engine after refueling pull the chock out completely, then pull the starting handle 2 or 3 times so that gasoline enters the carburetor. Adjust the chock according to the above instructions.
4. Turn the engine switch to the ON position.

5. Pull the starting grip lightly until resistance is felt, then pull briskly.

Be careful

- Never allow the starting grip to snap back, return it slowly by hand.
- Grasp the carrying handle firmly to prevent the generator from falling over when pulling the starting grip.
6. After the engine starts, allow the engine to run continuously and warm up.
7. Press the choker in completely after the engine is started.

**Note**

- If the engine stops and will not restart, check the engine oil level before troubleshooting in other areas.

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High Altitude Operation

At high altitude, the standard carburetor air-fuel mixture will be excessively rich. Performance will decrease, and fuel consumption will increase.

High altitude performance can be improved by installing a smaller diameter main fuel jet in the carburetor and by readjusting the pilot screws. If you always operate the generator at altitudes higher than 1500m (5000 feet) above sea level, have your authorized dealer perform these carburetor modifications.

Even with suitable carburetor setting, engine horsepower will decrease approximately 3.5% for each 300m (1000 feet) increase in altitude. The affect of altitude on the horsepower will be greater than this if no carburetor modification is made.

**Note**

- Operation of the generator at an altitude lower than the carburetor is set for may result in reduced performance, overheating, and serious engine damage caused by an excessively lean air/fuel mixture.
Generator Use

⚠️ Warning

- To avoid electric shock, be sure to that generator is properly grounded. Connect a length of heavy wire between the generator’s ground terminal and an external ground source.
- Connections for standby power to a building electrical system must be made by a qualified electrician and must comply with all applicable laws and electrical codes. Improper connections can allow electrical current from the generator to backfeed into the utility lines. Such backfeed may electrocute utility company workers or others who contact the lines during a power outage, and when utility power is restored, the generator may explode, burn or cause fires in the building’s system.

⚠️ Be careful

- Do not exceed the rated power. Total wattage of all appliances connected must be considered.
- Do not exceed the current limit specified for any one socket.
- Do not connect generator to any household circuit, otherwise, it may destroy generator or home electric equipment.
- Do not use generator for any purpose other than its intended use. Failure to follow these instructions could result in serious injury. Do not parallel connect generators or lengthen the exhaust pipe.
- Extension cords are not recommended. If an extension cable is required, be sure to use only a rubber sheathed flexible cable. (IEC245 or equivalent)
- Limit length of extension cables: 60m for cables of 1.5mm² and 100m for cables of 2.5 mm². Long extension cables will reduce usable power due to resistance in the extension cable.
- Keep the generator away from other electric cables or wires such as commercial power supply lines.

⚠️ Note

- The DC socket can be used while the AC power is in use. If you use both at the same time, be sure not to exceed the total power for AC and DC.
- Most appliance motors require more than their rated wattage for start-up.
AC power use

1. Start the engine and make sure the output indicator (green) stays on.
2. Insure that all loads have been turned off, and then put the plug into the socket.

![Output indicator (green) and Overload indicator (red)]

⚠️ Be careful

- Substantial overloading that continuously lights the overload indicator light (red) may damage the generator. Marginal overloading that temporarily lights the overload indicator light (red) may shorten the service life of the generator.
- Be sure that all appliance are in good working order before connecting them to generator. If an appliance begins to operate abnormally, becomes sluggish or stops suddenly, turn it off immediately, disconnect the appliance, and determine whether the appliance has a problem, or if the rated load capacity of the generator has been exceeded.

Output and overload indicator:

The output indicator (green) will remain ON during normal operating conditions.

If the generator is overloaded, or there is a short circuit in a connected appliance, the overload indicator (red) will go on. The overload indicator (red) will stay on, and the current to the connected appliance will be shut off.

STOP THE ENGINE IMMEDIATELY IF THE OVERLOAD INDICATOR LIGHT TURNS ON. Do not restart until you have found the reason for the overload.
Be careful

◆ BEFORE CONNECTING ANY APPLIANCE TO THE GENERATOR, BE SURE IT IS IN PROPER WORKING ORDER AND THAT IT DOES NOT EXCEED THE POWER RATING OF THE GENERATOR.

◆ Be sure all equipment is turned off before plugging in the power cord.

<table>
<thead>
<tr>
<th>output indicator (green)</th>
<th>oil alarm indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>overload indicator (red)</td>
<td></td>
</tr>
</tbody>
</table>

Be careful

◆ When an electric motor is started, both the overload indicator (red) and the output indicator (green) may stay on simultaneously. This is normal if the overload indicator (red) stays off after about 4 seconds.

◆ If the overload indicator (red) stays on after the engine has been started, discontinue use and consult an authorized repair person. DO NOT CONTINUE TO USE.

1. Connect ground

<table>
<thead>
<tr>
<th>grounding mark</th>
</tr>
</thead>
</table>

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2. Start the engine as page 11
   If the overload indicator stays on, TURN OFF THE ENGINE IMMEDIATELY. Restart the engine after the overload indicator turns off.

3. Make sure the electrical appliance is turned off, before plug it in the AC socket.

⚠️ Be careful

BE SURE ALL APPLIANCES ARE IN THE OFF POSITION BEFORE CONNECTING TO THE GENERATOR. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY, DEATH, AND EQUIPMENT DAMAGE. ALWAYS KEEP UNTRAINED PEOPLE, CHILDREN AND PETS AWAY FROM THE GENERATOR WHILE IN USE.

4. Turn on the equipment after output indicator (green) turns on
   If there is overload or malfunction in equipment, output indicator (green) will turn off and overload indicator (red) will turn on with no power output. TURN THE ENGINE OFF IMMEDIATELY and follow the instructions above.
Be careful

- If the equipment is an inductive load, it will need more power for starting. Overload indicator and output indicator will turn on at the same time for a short period, that's normal. Red indicator turns off but green indicator still keeps on after equipment starts.
DC power use

For charging 12V automotive batteries:

<table>
<thead>
<tr>
<th>AC Parameter:</th>
<th>Idling voltage (V)</th>
<th>Loading voltage (V)</th>
<th>Loading current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening the smart throttle</td>
<td>22</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>Closing the smart throttle</td>
<td>27</td>
<td>13</td>
<td>8.5</td>
</tr>
<tr>
<td>AC Max. output power</td>
<td>37</td>
<td>13.5</td>
<td>8.5</td>
</tr>
</tbody>
</table>

The generator cannot sense a sensibility load with the same power which the manual indicates. It only can sense 40%-70% power which the manual indicates.

⚠️ Note

- When using the DC output, turn Smart Throttle to the OFF position. The DC current will be below 5A if turning on the Smart Throttle without AC current output.
- When charging batteries, person must be present to monitor the voltage. Stop charging when the voltage of the batteries is above 16V. Or it may cause battery explosion, resulting in serious injury or death.
**Warning**

- To prevent the possibility of creating a spark near the battery, connect charging cable first to the generator, then to the battery. Disconnect cable first at the battery.
- When charging auto car batteries, disconnect ground wire of the batteries first, and reconnect it after charging. This will avoid a short circuit or spark if the ground wire touches the body of auto cars by accident.

**Be careful**

- Do not start the car when generator is connected to batteries, or it may destroy generator.
- Make sure the positive battery terminal is connected to the positive charging cord. Do not reverse the charging cables, or serious damage to the generator and battery may occur.

**Warning**

- The battery gives off explosive gases: keep spark, flames and cigarettes away. Provide adequate ventilation when charging. Failure to do so may result in shock, property damage, fire and/or serious injury.
- Avoid body contacting with fuels, oils and lubricants used in the generator. If swallowed, seek medical treatment immediately. Do not induce vomiting if fuel is swallowed. For skin contact, immediately wash with soap and water. For eye contact, immediately flush eyes with clean water and seek medical attention.
- Keep out of reach of children, pets and untrained people.

2. Start engine
   - DC power and AC power can be used at the same time.
   - An overloaded DC circuit may trip DC circuit breaker. If this happens, wait a few minutes before pushing in the circuit breaker to resume operation.
Oil alarm system
Oil alarm system is designed to avoid engine damage from not enough oil in crankcase. Oil alarm system will stop engine automatically before oil level in crankcase gets below the safety line (ignition indicator will stay on during cranking).
The engine will not restart after it is stopped by the oil alarm system. If the oil alarm system indicator (red) stays on during cranking, the engine will not start. Add more oil (see pre-operation check).
Stop engine

To stop engine in an emergency, simply turn the engine switch to the OFF position.

Normal usage

1. Unplug appliances from the generator sockets.

2. Turn the engine switch to the OFF position.
3. Close the air vent knob and turn fuel valve to the OFF position

Be careful

- Make sure that the air vent knob and fuel cap are closed and engine switch is off when finished using, transporting and storing the generators.
## Maintenance

The purpose of the maintenance and adjustment schedule is to keep the generator in the best operating condition. Inspect or service as scheduled in the table below.

### Warning

- Stop engine before servicing. If servicing requires operating generator, be sure to operate the generator in a ventilated environment. Exhaust fumes contain the poisonous gas carbon monoxide. Carbon Monoxide is a colorless, odorless gas that, if inhaled, can cause serious injury or death.

### Caution

- Repairs to the generator should be done by trained licensed people only.

### Maintenance Schedule

Perform at every indicated month or operating hour interval.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Maintenance Procedure</th>
<th>Regular service period ①</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Each use</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 HRS</td>
</tr>
<tr>
<td>Engine Oil</td>
<td>Check</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Replace</td>
<td></td>
</tr>
<tr>
<td>Air cleaner</td>
<td>Check</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Clean</td>
<td></td>
</tr>
<tr>
<td>Spark plug</td>
<td>Clean &amp; adjust</td>
<td></td>
</tr>
<tr>
<td>Combustion chamber</td>
<td>Clean</td>
<td></td>
</tr>
<tr>
<td>Valve clearance</td>
<td>Check &amp; adjust</td>
<td></td>
</tr>
<tr>
<td>Fuel tank and filter tank</td>
<td>Clean</td>
<td></td>
</tr>
<tr>
<td>Fuel line</td>
<td>Check</td>
<td>Every 2 years</td>
</tr>
</tbody>
</table>

(1) Normal maintenance interval
(2) Service more frequently when used in dusty areas.
(3) The Maintenance Schedule is based on the 25 °C. If the temperature is above 30 °C, decrease the output power or shorten the time to change oil.
<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>Time for changing oil (hour)</th>
<th>Recommended power factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>normal</td>
<td>100%</td>
</tr>
<tr>
<td>30</td>
<td>18</td>
<td>95%</td>
</tr>
<tr>
<td>35</td>
<td>15</td>
<td>85%</td>
</tr>
<tr>
<td>40</td>
<td>12</td>
<td>70%</td>
</tr>
</tbody>
</table>

1. Change oil

Drain the used oil while the engine is warm. Warm oil drains quickly and completely.

Be careful

- Turn the engine switch and air vent knob to the OFF position to reduce the possibility of fuel leakage.

a. Tilt the generator.
b. Loosen the screw and drain the oil completely.
c. Retighten the screw.
d. Add the recommended oil and check the oil level
e. Gently shake the generator to make the float rise after adding new oil.

Oil tank capacity: 0.25L
Wash your hands with soap and water after handing used oil

⚠️ Be careful

- Dispose of used engine oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local service station for reclamation. Do not throw it in the trash or pour it on the ground.

2. Air filter service

   A dirty air filter will restrict airflow to the carburetor. To prevent carburetor malfunction, service the air filter regularly. Service more frequently when operating the generator in dusty areas.

⚠️ Warning

- Do not use fuel or low flash point solvents for cleaning. They are flammable and explosive under certain conditions.

  a. Loosen the cover screw and remove the maintenance cover.
  b. Loosen the screw under the air filter box.
  c. Pull the air filter cover down 30mm according to the (a) and remove the air filter cover according to (b)
  d. Remove the air filter iron clip and check the air filter element. Clean or replace the element if necessary.
  e. Reinstall the air filter parts after cleaning or replacing air filter element.
3. spark plug servicing

Please use high quality authentic spark plug.
To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

(1). Remove the top maintenance cover
(2). Clean any dirt from around the spark plug base
(3). Use a spark plug wrench to remove the spark plug.
Insert the screwdriver into the hole of the spark plug wrench and remove the spark plug.

(4) Visually inspect the spark plug. Discard it if the insulator is cracked or chipped. Clean spark plug with a wire brush if it is to be reused.

(5) Measure the spark plug gap with plug gauge. It should be 0.6-0.7mm (0.024-0.028in).
(6) Install the spark plug carefully by hand, to avoid cross-threading.
(7) After a new spark plug has been seated by hand, it should be tightened 1/2 turn with a wrench to compress its washer. If a used plug is being reinstalled, it should only require 1/8 to 1/4 turns after being seated.
(8) Reinstall the spark plug rubber boot on the spark plug securely.
(9) Reinstall the controlling panel.

Be careful

- Spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the generator.
- Never use a spark plug with an improper heat range.
- Never use a spark plug without damping resistance, or it will cause no AC output

Transportation and storage

To avoid fuel spillage during transportation and storage, the generator should be secured upright in its normal operation position, with the engine switch OFF. The air vent is turned counterclockwise to the OFF position.
Allow the engine to cool completely before turning the air vent to the OFF position.

Warning

When transporting generator:
- Do not overfill the tank, (there should be no fuel in the filler neck).
- Do not operate generators while it is on a vehicle. Take the generator off the vehicle and use it in a well-ventilated place.
- Avoid direct sunlight when putting the generator in a vehicle, high temperatures inside the vehicle could cause the fuel to vaporize and possibly explode.
- Do not drive on a rough road for an extended period with the generator on board. If you must transport the generator on a rough road, drain the fuel from the generator beforehand.

Before storing the generator:
1) Ensure the storage space is dry and clean
2) Drain all fuel in the tank.

Warning

Fuel may become extremely explosive in some conditions. Do not use near open flame or other ignition sources.

1. Completely drain the fuel from the tank. Open the fuel valve, start the engine and operate it in the idle position until all remaining fuel is gone and the engine shuts up automatically.
2. Discharge oil.
3. Remove spark plug and Fill cylinder with 2cc's fresh oil. Pull start motor 3-4 times to discharge the remaining oil. Then reinstall the spark plug.
4. Pull the starting cord slowly until resistance is strong. At this time, the piston is moving to the top of the compression stroke, and the valves will be closed.
Troubleshooting

Engine will not start:

- Enough fuel?  
  - No → Add fuel
  - Yes → Are the Engine switch and fuel valve “on”?  
    - No → Turn them to the “on” position
    - Yes → Enough lubricating oil?  
      - No → Add more qualified oil
      - Yes → Is there fuel in the carburetor?  
        - No → Pump the fuel in the carburetor
        - Yes → Spark plug works or not?  
          - No → Replace Spark plug
          - Yes → No → Send the generator to an authorized dealer

⚠️ Note
- Shack the generator several times to make the float rise if the generator cannot start after adding oil for the first time and the oil alarm indicator stays on when pulling the starting grip.

⚠️ Warning
- Make sure there is no spilled fuel around the spark plug. Spilled fuel may ignite.

If the engine still does not start, have the generator repaired by a licensed repair person.
The equipment that connects generator does not start

Is the output indicator on?

no

Is the overload indicator on?

no

Send the generator to an authorized dealer

does not

yes

Restart the engine after turning off the overload indicator

yes

Send the generator to an authorized dealer

no

Does the electrical equipment work when plugged in directly?

no

1) Replace the electric equipment
2) Repair the electric equipment

yes

There is no power in the direct current electric outlet:

Is the electric circuit breaker intact?

Replace the electric circuit breaker

no

Send the generator to an authorized dealer

* Deficient AC output

Deficient output

Check air filter

Dirty

Clean or replace air filter element

Dirty

Clean or replace fire net

Yes

Check the gasoline is bad

Replace gasoline

Return the generator to an authorized dealer
### Specification

#### Size and weight

<table>
<thead>
<tr>
<th>Type</th>
<th>Sinemate 1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>L x W x H (mm)</td>
<td>495×275×415</td>
</tr>
<tr>
<td>Net weight (kg)</td>
<td>30 lbs (13.7 kg)</td>
</tr>
</tbody>
</table>

#### Engine

<table>
<thead>
<tr>
<th>Model: Type</th>
<th>142F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>4-stroke OHV 1-Cylinder</td>
</tr>
<tr>
<td>Displacement (cc)</td>
<td>50</td>
</tr>
<tr>
<td>Compression ratio</td>
<td>7.4</td>
</tr>
<tr>
<td>Engine speed</td>
<td>5500rpm (ECO switch is off)</td>
</tr>
<tr>
<td>Cooling system</td>
<td>Forced air cooling</td>
</tr>
<tr>
<td>Ignition system</td>
<td>TDI</td>
</tr>
<tr>
<td>Oil capacity (L)</td>
<td>0.25L</td>
</tr>
<tr>
<td>Fuel tank capacity (L)</td>
<td>2.5L</td>
</tr>
<tr>
<td>Spark plug</td>
<td>NGK</td>
</tr>
<tr>
<td>Noise level (db/7m)</td>
<td>54db</td>
</tr>
</tbody>
</table>

#### Generator

<table>
<thead>
<tr>
<th>Type</th>
<th>Sinemate 1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC output</td>
<td></td>
</tr>
<tr>
<td>Rated voltage (V)</td>
<td>100/110/120/220/230/240</td>
</tr>
<tr>
<td>Rated frequency (HZ)</td>
<td>50/60</td>
</tr>
<tr>
<td>Rated output (KVA)</td>
<td>1.0</td>
</tr>
<tr>
<td>Maximum output (KVA)</td>
<td>1.2</td>
</tr>
<tr>
<td>DC output</td>
<td>12V/8.3A</td>
</tr>
<tr>
<td></td>
<td>For 12V automotive batteries only</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Engine</td>
<td>Rear siller bearing spacer</td>
</tr>
<tr>
<td>21</td>
<td>22</td>
</tr>
<tr>
<td>Input air screen</td>
<td>Fan</td>
</tr>
<tr>
<td>40</td>
<td>41</td>
</tr>
<tr>
<td>M6 nut</td>
<td>M6 nut</td>
</tr>
<tr>
<td>59</td>
<td>60</td>
</tr>
<tr>
<td>M5 bolt</td>
<td>M5 bolt</td>
</tr>
<tr>
<td>78</td>
<td>79</td>
</tr>
<tr>
<td>M5 bolt</td>
<td>M5 bolt</td>
</tr>
<tr>
<td>97</td>
<td>98</td>
</tr>
<tr>
<td>Indenter holder</td>
<td>Right cover</td>
</tr>
</tbody>
</table>

**PARTS LIST**
LIMITED WARRANTY

Applicable Products: RAMSOND SINEMATE 1500, 2500, 3500 and 4500 SINEMATE INVERTER GASOLINE GENERATORS.

Ramsond Corporation warrant the above referenced product, to the original purchaser of new equipment, be free from defect or workmanship for a period of one year from the date of purchase, subject to the limitations contained herein. In the event of product failure or malfunction, return the product in person or by courier to:

Ramsond Corporation
WPC Service Department
4051 Haggerty Road
West Bloomfield, Michigan 48323
Tel: (248) 363-8302  Fax: (248) 363-7834
e-mail: tech@ramsond.com

You must include the following to receive warranty service:

1. Proof of purchase.
2. Detailed description of the fault or problem
3. Visible Serial Number of the unit
4. $35 Handling fee (check, money order)
5. Return Shipping Label (prepaid) for returning to you the repaired/replaced product.

The faulty/defective product will then be inspected, repaired or replaced (at our option). The repaired/replaced component/product shall then be returned to the purchaser. The purchaser shall be responsible for all shipping and handling costs of sending the defective/faulty item to us, as well as all shipping and handling costs of returning the repaired/replaced to the customer. Any import/export costs associated with shipping of repaired product outside the United States, such as brokerage fees, taxes, customs or duties are the responsibility of the customer. Certain items which are subject to normal wear and tear are specifically excluded from this warranty (e.g. spark plug, and filters). Please allow up to 30 days from date that we receive the unit for repair/replacement. In the event that we are not able to repair the product, we will replace the product with same or similar unit. In the event that the model is not available, we will replace the machine with an existing model with same or better characteristics, functionality and quality. We reserve the right to replace a defective unit with an identical refurbished unit that has been subjected to testing, which will similarly be warranted against defect or workmanship. Faulty installation, operation or maintenance of the product or attempted repair and maintenance by persons not expressly certified by Ramsond shall render the limited warranty void. Damage resulting from failure to use the product in a manner consistent with our recommendations shall render the limited warranty void. This limited warranty specifically excludes any consequential and/or incidental damages. Although we may provide technical assistance via telephone or email to the customer, it is virtually impossible to troubleshoot all matters via telephone or remote assistance. As such, the offering by us of any technical assistance is made without any warranty or guarantee and provided on “as is” basis. It is the responsibility of each purchaser to determine whether any particular product is compliant with and permissible for use pursuant to the applicable rules, codes and/or regulations, if any, and suitable for particular use and operation. We make no representations or warranties whatsoever concerning the suitability of any merchandise for a particular use or purpose and any such warranty is expressly excluded from the terms of this limited warranty. We reserve the right to make slight modifications necessary to the merchandise for product improvement. This limited warranty shall be subject the laws of the State of Michigan and any claiming arising therefrom shall be interpreted in accordance to the laws of the State of Michigan and subject to the exclusive jurisdiction of the Courts of State of Michigan.

Rev. 08/2011