



<http://www.amicousa.com>



**OWNER'S**  
PLEASE READ THIS MANUAL CAREFULLY.  
IT CONTAINS IMPORTANT SAFETY INFORMATION.  
**MANUAL**

***Diesel***  
***Generenator***

**AHW6000LE**

# PREFACE

Thank you for purchasing AMICO diesel generators.

This operation manual will tell you how to operate and service your AMICO generation set correctly.

Please read this manual before using the generating set to ensure the proper operation. Follow the instructions to keep your generating set in the best working condition and extend the life of it. If you have any comments or problem, please contact with our sales company or the authorized agent.

This manual deals with the general items of the AMICO diesel generating set. However, the manual may vary with the development of the products in the future.

Please give special attentions to warnings and cautions.

## WARNING

Failure to properly follow these precautions can result in property damage, serious injury or DEATH!

Read all labels and the owner's manual before operating this generator.

Operate only in well ventilated areas. Exhaust gas contains poisonous carbon monoxide, and can be deadly. Always stop engine before refueling. Wait 5 minutes before restarting.

Check for spilled fuel or leaks. Clean and/or repair before use. Keep any sources of ignition away from fuel tank, at all times.

## WARNING

Indicates that the severe personal injury even death will result if the instructions are not followed.

## CAUTION

Indicates that the serious personal injury or equipment damage will result if the instructions are not followed.

AMICO diesel generating set will meet your requirement if you operate it according to the manual instruction. Otherwise serious personal injury and equipment damage will result.

So, AMICO reconfirms that you must to read and understand this manual before operating the generating set.



**WARNING:**

**⚠ CAUTION**

### 1. TO PREVENT THE FIRE

Never add fuel to the fuel tank while the engine is running.

Wipe off the overflowed fuel oil with a clean cloth. Keep explosives and other flammable products away from the generating set.

- To prevent the fire and to provide adequate ventilation, keep the generating set at least one meter away from buildings and other equipment during operation.
- Operate the generating set on a level surface,
- Do not put the generating set indoors while the engine is hot.

### 2. TO PREVENT FROM INHALING THE EXHAUST

Exhaust gas contains poisonous carbon monoxide, which is harmful to the health.

Never use the generating set at the confined places or poor ventilated locations, If it's necessary to run the generating set indoors, be sure to provide the adequate ventilation.

### 3. BE CARE NOT TO BE SCALDED


The muffler and the engine body are very hot while the engine is running or just after running, do not touch these parts to prevent from being scalded.

### 4. ELECTRIC SHOCKS, SHORT CIRCUITS

To avoid electric shocks or short circuits, do not touch the generating set when your hands are wet. This generating set is not waterproof, so it should not be used in a place exposed to rain snow or water sprays. Use of the generating set in a wet place can cause short circuits and electric shocks during operation.

- The generating set should be grounded to prevent electrical shocks from faulty appliances. Connect a length of heavy wires between the generating set's ground terminal and an external ground source.

- Do not hook up tools or other apparatus to generating set rator before it has been started. If equipment is attached, generator starting may cause sudden movements of the equipment and result in injuries and accidents. Be sure to disconnect any apparatus from the generating set or prior to starting.

 CAUTION

- Most appliance motors require more than their rated wattage for start-up.
- Do not exceed the specified current limit of any socket.
- Do not connect the generating set to a household circuit. This could cause damage to the generating set and to electrical appliances in the house.

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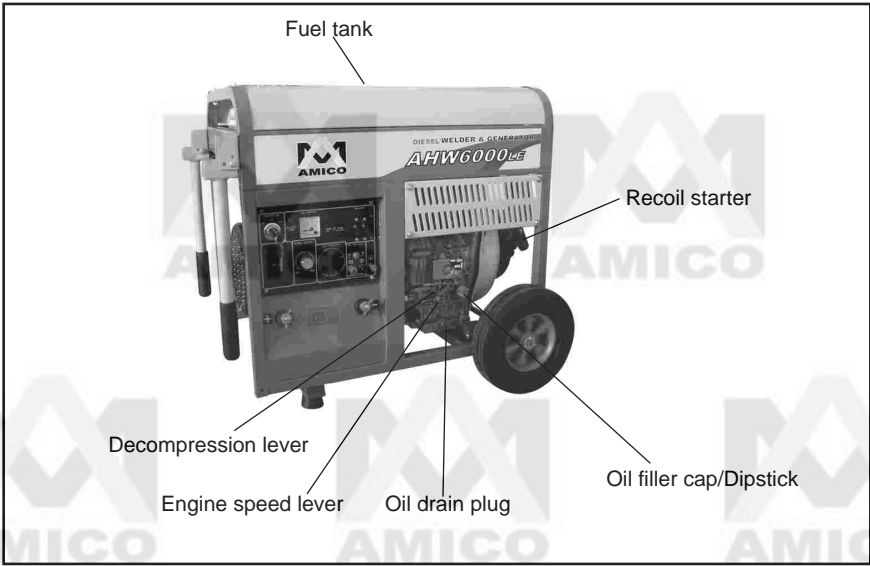
# 1. MAIN TECHNICAL SPECIFICATIONS AND DATA

## 1.2 Main Technical Specifications and Data of Welder & Generating Set

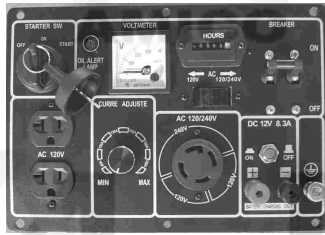
Item		Model	AHW6000LE
Generator	Rated frequency (Hz)		60
	Rated power (kVA)		6.0
	Rated voltage (AC)(V)		120/240
	Rated current (AC)(V)		50/25
	NO-load Voltage(DC)(V)		50
	Cont.Current (DC)(A)		180
	Cont.Rated Voltage(DC)(V)		25-35
	Continuous load Rate(A)		60%
	Continuous load Rate(A)		80-210
	Rated revolution speed(r/min)		3600
	Power factor (cos $\phi$ )		0.8
	Excitation mode	Controlled silicon self excitation constant voltage	
	DC output	12V/8.3A	
	Operation mode	12 hour continuous running	
	Coupling method	Transmission rigid connection	
	Engine Model	AHD186	
	Gross weight(kg)	122	
	Overall dimensions(LxWxH)(mm)	735x525x650	

## 2. CONFIGURATION

### 2.1 Parts name



## 2.2 Control panel



## 3. PREPARATION FOR STARTING

### 3.1 Selection and handling of the fuel oil

#### ■ Selection of fuel oil

Only use the light diesel, which is most suitable for the engine,

#### ■ Keep dust and water out of the fuel

When filling the fuel tank from drums, make sure that no dust or water is mixed in the fuel. Otherwise the serious fuel injection pump and nozzle problems will result

#### ■ Do not overfill

Overfilling is very dangerous, Do not fill the tank beyond the top of the red plug inside the fuel oil filter.

### ⚠ WARNING

- Refuel in a well-ventilated area with the engine stopped.
- Do not smoke or allow flames or sparks in the area where the engine is refueled or where the fuel oil stored,
- Do not overfill the tank, make sure the filler cap is securely closed after refueling.
- Be careful not to spill fuel when refueling. If any fuel is spilled, make sure the area is dry before starting the engine.



### 3.2 Check and refill the engine oil

#### WARNING

- Always check the engine oil level with the generating set on a level surface before starting and refill if necessary.
- The engine may be damaged if operated with insufficient engine oil, it is also dangerous to refill too much engine oil as sudden increase in engine speed may be caused by its combustion.

#### WARNING

AMICO series generating set are equipped with low oil warning system. This system will stop the engine automatically when the oil level falls below the lower level. This prevents accidents such as bearing seizures, etc.

Select the most applicable engine oil

- It is very important to select the applicable engine oil to keep up the performance and life of the generating set. If inferior engine oil is used, or if your engine oil is not replaced periodically, the risk of piston seizure, piston ring sticking and accelerated wear of the cylinder liner, bearing and other moving components increases significantly. So the generating set life will be shortened. AMICO recommends CC/CD oil classified by API. Choose the applicable viscosity oil according to the local ambient temperature.

### 3.3 Service the air cleaner

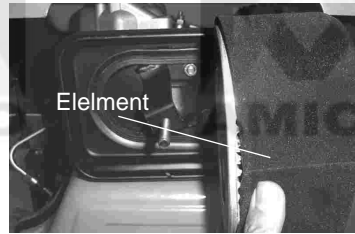
1. Screw off the wing nut, remove the air cleaner cover and take out the element.

#### WARNING

- Do not wash the element with detergent.
- Replace the element when its output decreases or a bad exhaust color is noticed.
- Never run the generating set without the element, otherwise the rapid engine wear will result.



2. Reattach the air cleaner cover and screw on the wing nut.



### 3.4 Check the generating set

1. Turn off the main switch and any other loads.

#### **⚠ WARNING**

Be sure to turn off the main switch before starting.

The generating set should be earthed to prevent electric shocks.



#### **⚠ WARNING**

The generating set should be earthed to prevent electric shocks.



2. Handling of dual voltage type generating sets

Be sure to place the changeover switch in the correct position for the rated voltage of the working instrument.



#### **⚠ CAUTION**

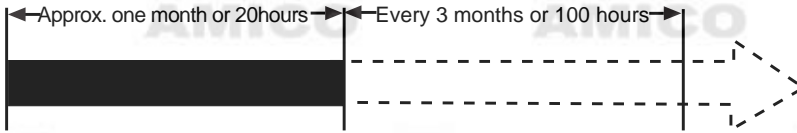
- The main switch should always be kept in the "ON" position during operation.
- Before starting the engine, be sure to turn the switches of the working instrument (lighting apparatus, motor, etc.) to their "OFF" position. If the switches are not "OFF", the sudden application of load when the engine is started could be very dangerous.

### 3.5 Break-in period operation

The first 20hrs are the break-in period of the engine, the operator must obey to following items:

Warm up the engine 5 minutes after the initial starting. Run the engine at low speed and zero load before the engine becomes warm

- Avoid applying any heavy loads during the break-in pedod AMICO recommends to run the engine at 3600 r/min with 50% load in break-in period.  
Replace the engine oil on time.
- Replace the engine oil while the engine is warm after 20-hours -running. the old engine oil will be drained out completely.



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## 4. START THE GENERATING SET

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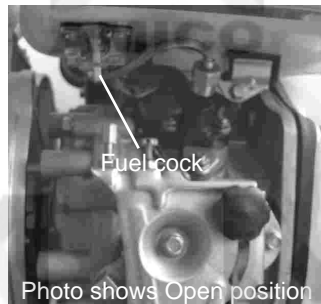
### ⚠ WARNING

- Do not hook up tools or other apparatus to the generating set before starting.

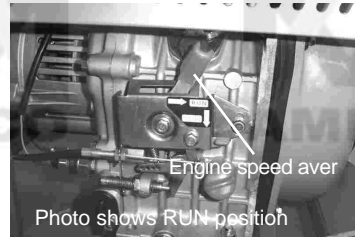
### 4-1 Recoil starting

Start the engine according to the following procedures:

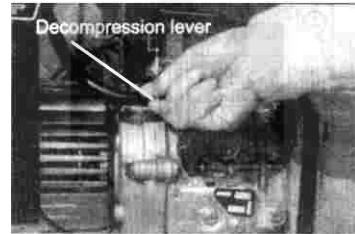
1. Open the fuel cock.



2. Set the engine speed lever at the RUN position.



3. Pull out the recoil starter handle.
  - Pull out the handle until you feel the resistance, then return it back to the initial position.
  - Press down the decompression lever. It will return automatically when the recoil starter is pulled.
  - Pull out the recoil starter handle briskly with both hands.



**⚠ CAUTION**

- Do not allow the handle grip to snap back against the engine. Return it gently to prevent damage to the starter.
- When the engine is difficult to start in cold weather, remove the screw plug from the cylinder head cover and add 2cc engine oil.

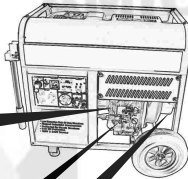
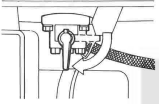
**⚠ CAUTION**

- Always screw on the screw plug on the cylinder head cover except filling, to prevent the rain and dirt from flowing into the engine body. Otherwise the quick wear of the internal parts and other serious problems will result.

# Recoil starting

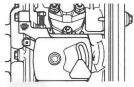
1

Open the fuel cock.



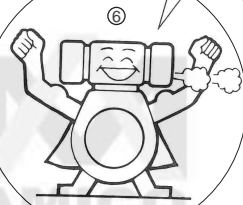
2

Put the engine speed lever in the "RUN" position



If the engine doesn't start try again from

Start!



3

Hold the starting handle loosely



Pull the starting handle slowly.....



..... until you feel resistance



Then return it slowly.



▲ Pull the rope hard and fast  
Pull it all the way out.  
Use two hands if necessary.



Hold the starting handle firmly.



Push the decompression lever down and release



Recoil starting

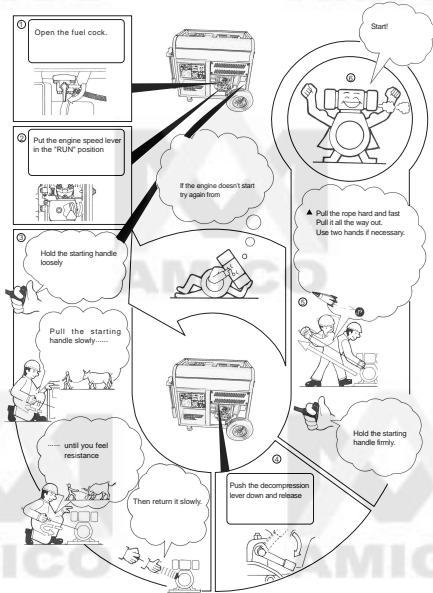
**✗**

For3, don't pull the rope too fast or hard.



**○**

Always pull the rope slowly.

① Open the fuel cock.

② Put the engine speed lever in the "RUI" position.

③ Hold the starting handle loosely.

④ Pull the starting handle slowly.....

..... until you feel resistance

⑤ Then return it slowly.

⑥ Push the decompression lever down and release.

⑦ Hold the starting handle firmly.

Start!

If the engine doesn't start try again from.....

▲ Pull the rope hard and fast Pull it all the way out. Use two hands if necessary.

**✗**

For5,if you don't pull the rope all the way out ,the engine won't start




**○**

Always pull the rope all the way out.




**✗**

For5,if you don't pull hard enough,the engine won't start



**○**

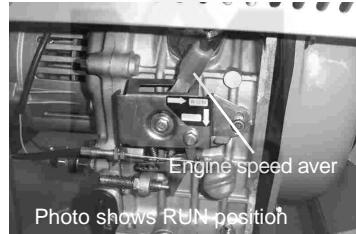
Always pull the rope hard and fast.



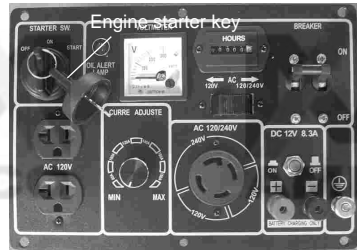
## 4.2 Electric starting

1. Starting (The preparations for electric starting are the same as for the recoil starting.)

- Open the fuel cock.
- Set the engine speed lever at "RUN" position.



- Turn the starting key clockwise to "START" position.  
Remove your hand from the key as soon as the engine starts.  
If the starting motor does not start after 10 seconds, wait 15 seconds before starting it again.



### ⚠ CAUTION

- Run the starting motor for long time will cost the battery power greatly even burn out the motor.
- Always leave the starting key at "ON" position while the engine is running.

## 2. Battery

1. when you install it, first check battery's polarity if it is same with generator's anode & cathode line, check volt if it is 12.3V, otherwise must electricize,
2. every month check volt if it is right, free charge maintenance battery's charge, volt is 13.5V-14.5V
3. check electric system if it have creepage, otherwise damage battery,
4. if battery's volt is not enough, electrica energy is low, please remove of battery and electricize, on time, only have 5-6hours is ok,
5. battery put on the place of low temperature, dryness, aeration, clean, three month or six month must need electricize,



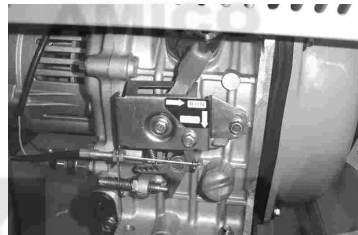
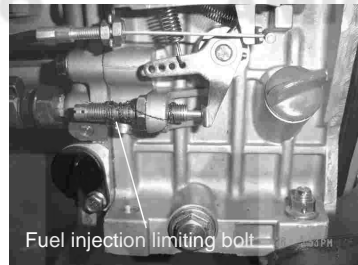
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## 5. OPERATE THE GENERATING SET

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### 5.1 Operate the generating set

1. Warm up the engine without load three minutes.
2. Concerning the generating set with Low Oil Warning System, check that the Oil Alarm Lamp is not lit.





**⚠ CAUTION**

- For the generating set with Low Oil Warning System, the Oil Alarm Lamp will be activated by low oil pressure or engine oil shortage, simultaneously, the engine will stop. The engine will stop immediately if restarted without refilling the engine oil. Check the oil level and refill.
- Do not loosen or readjust either the engine speed limiting bolt or fuel injection limiting bolt, otherwise, the performance will be affected.

## 5.2 Checks during the running

1. Whether there is abnormal sound or vibration;
2. Whether the engine misfires or runs rough;
3. Check the color of the exhaust. (Is it black or too white?)

If you notice any of the above-mentioned phenomenon happened, stop the engine and find out the fault cause or contact with AMICO agent.

**⚠ CAUTION**

- If the engine has been running, the muffler will be very hot, Be careful not to touch the muffler.
- Never refill the fuel tank while the engine is running.

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## 6.LOAD

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**⚠ CAUTION**

- DO not start 2 or more machines simultaneously Start them one by one.
- Do not use floodlights together with other machines.

## 6.1 AC application


1. Be sure to run the generating set at rated speed, otherwise capacitor will produce the forced excitation. If the running is for a long time under such condition, capacitor will be burned out,
2. After switching on the air switch, observe the voltmeter on the panel of the control cabinet, the voltmeter should point to  $120V+5\%$ (60Hz) for single-phase generating set;  $120V/240V+5\%$ (60Hz) for single-phase generating set, then the loading can be carried out.
3. When the double voltage generating set changes over the voltage, the air sw., I should be set at "OFF" position. Otherwise the generating set and electric devices will be burned out and damaged.
4. Connect the equipment to the generating set in order. For the matter of the motor load, firstly the heavy-duty motor should be connected, then the light-duty motors. If the operation is false, the generating set will lag or stop suddenly. It is necessary to unload the generating set immediately and turn off the main switch and do checks.

### NOTE


- If overloading of the circuit trips the AC circuit protector, reduce the electrical load on the circuit, and wait a few minutes before resuming operation.

## 6.2 DC application

1. DC terminals are only for charging 12V battery,
2. Set the air switch at "OFF" position while charging. On the 12V output terminals, a charge switch can be connected so the switch can be used for on-and-off purpose
3. Concerning the automatic type battery with the leads, be sure to disconnect the negative leads of the battery while charging.








 CAUTION

- Connect the positive and negative poles of the battery with the positive and negative poles of DC terminals separately. Do not confuse them, otherwise the battery and generating set will burn out
- Do not connect the positive pole of the battery with its negative pole, otherwise the battery damage will result,
- Do not connect the positive pole of the DC terminal with its negative pole. otherwise the generating set damage will result,
- When a large capacity battery is charged, excessive current flows, the fuse for the direct current will burn out,
- Do not run the generating set while it is still connected with the battery,
- Do not use DC12V and AC at the same time.

 CAUTION

- Battery exhausts explosive gas. Keep sparks, flames, and cigarettes away from the battery. To prevent from creating a spark near the battery, always connect the charging cables to the battery first and only then to the generating set. When disconnecting, you should disconnect the cables at the generating set first.
- Charge the battery at a well-ventilated place,
- Before charging, remove the cap from each cell of the battery.
- Stop charging if the electrolyte temperature exceed 45 C.

6.3 Electrical appliance particularly motor-driven equipment will produce very high current while starting, the below table provides the reference for connecting these apparatus to the generator set.

TYPE	WATTAGE		TYPICAL APPLIANCE	EXAMPLE		
	STARTING	RATED		APPLIANCE	STARTING	RATED
<ul style="list-style-type: none"> <li>• Incandescent lamp</li> <li>• Heating appliance</li> </ul>	XI	XI	 Incandescent lamp	 Incandescent lamp 100W	100VA (W)	100VA (W)
				 Fluorescent lamp		
<ul style="list-style-type: none"> <li>• Fluorescent lamp</li> </ul>	X2	XI.5	 Refrigerator	 Refrigerator 150W	450-750VA (W)	300VA
			 Electric fan			

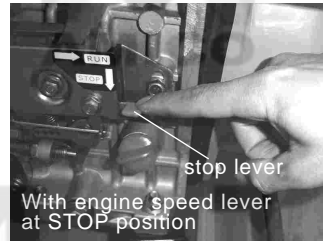
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## 7.STOP THE GENERATING SET

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1. Disconnect the load from the generating set.
2. Turn off the breaker of the generating set.
3. Set the speed lever at "RUN" position, run the generating set without load for about 3 minutes. Do not stop the engine suddenly, otherwise the temperature will increase abnormally, the nozzle will be blocked and the generating set will be damaged

- Press down the stop lever
- Concerning the electric starter, turn the key to "OFF",
- Turn the fuel cock lever to "S" position
- Pull out the recoil starter handle until you feel resistance (at this position, both intake/exhaust valve are closed.) and leave the handle in this position. This prevents the engine from rust.



### WARNING

- If the engine keep on running even after the speed lever is placed at the "STOP" position, either turn the fuel cock to the "CLOSE" position or loosen the nut of high pressure fuel pipe on the pump side to stop the engine.
- Do not stop the engine with the decompression lever.
- Do not stop the generating set with load. Stop it after the load removed.

## 8. PERIODIC CHECK AND SERVICE

Periodic check and service are very important for keeping the engine in good condition and durable. The chart below indicates what checks to make and when to make them.

### ⚠ WARNING

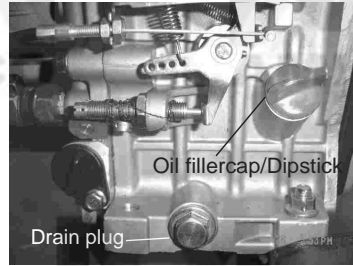
- Shut off the engine before performing any service. If the engine must be run, make sure the area is well ventilated. The exhaust contains poisonous carbon monoxide gas.
- After the generating set has been used, clean it immediately with a cloth to prevent corrosion and to remove sediments.

Item \ Intervals	Every day	First month or 20 Hrs	Third month or 100 Hrs	sixth month or 500 Hrs	Every year or 1000 Hrs
Check and refill fuel oil	○				
Drain out fuel oil		○			
Check and refill engine oil	○				
Check for oil leakage	○				
Check and tighten fastening parts	○			● Tighten the Cylinder head bolts	
Replace engine oil		○ (First time)	○ (Secondtime)		
Clean engine oil filter				○ (Replace if necessary)	
Replace air cleaner element	(Service more frequently when used in dusty areas)			○ (Replace)	
Clean fuel oil filter				○	● (Replace)
Check fuel injection pump				●	
Check nozzle				●	
Check fuel pipe				● (Replace if necessary)	
Adjust clearance of intake/exhaust valves		● (First time)		●	
Grind intake/exhaust valves					●
Replace piston ring					●
Check battery electrolyte	Every month				
Check carbon brush and slip ring				●	
Check insulation resistance	The generating set has been stored more than 10days				○

Note: "○" indicates that special tools are required, please contact with AMICO agent.

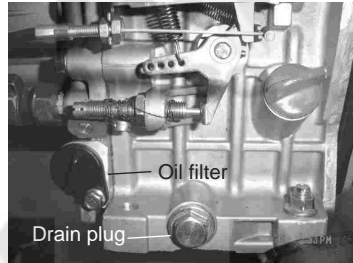
### 8.1 Replace engine oil

Remove the oil filler cap. Remove the drain plug and drain the old oil while the engine is still warm. The plug is located on the bottom of the cylinder block. Tighten the drain plug and refill with the recommended oil.



### 8.2 Clean the engine oil filter

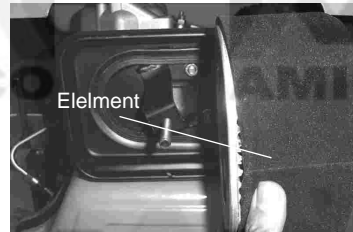
Cleaning time	Every 6 months or 500 hours
Replace if necessary	



### 8.3 Replace the air cleaner element

Do not clean the air cleaner element with detergent.

Replace time	Every 6 months or 500 hours
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### ⚠ CAUTION

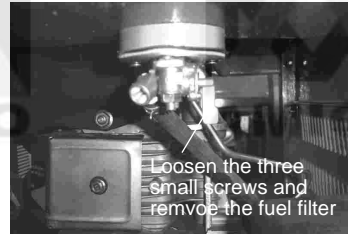
- Never run the engine without the element or with a defective element.

### 8.4 Clean and replace fuel oil filter

The fuel oil filter also has to be cleaned regularly to insure maximum engine output.

Clean time	Every 6 months or 500 hrs
Replace time	Every year or 1000 hrs

1. Drain out the fuel from the fuel tank.



2. Drain out the fuel from the fuel tank.  
Screw off the small screw of the fuel cock and pull out the filter from the filler port.
3. Wash the filter thoroughly with diesel fuel.  
Loosen the fastening nut, bottom cover and delivery discs for cleaning the deposit carbon.



#### 8.5 Tighten cylinder head bolt

Tightening the cylinder head bolt requires a special tool. Do not try yourself. Contact with AMICO agent.

#### 8.6 Check the injection nozzle and fuel injection pump

1. Adjust the clearance of the intake/exhaust valves,
2. Grind the intake/exhaust valves.
- 3 Replace the piston ring.

All these operation require special tools and skills, contact with your AMICO agent.

#### WARNING

- Do not perform the injection nozzle test near an open fire or any other kind of fire. The fuel spray may ignite. Do not expose bare skin to the fuel spray. The fuel may penetrate the skin and cause injury to the body. Always keep your body away from the nozzle.



### 8.7 Check the battery and charge the battery

1. when you install it, first check battery's polarity if it is same with generator's anode & cathode line, check volt if it is 12.3V, otherwise must electricize,
2. every month check volt if it is right, free charge maintenance battery's charge, volt is 13.5V-14.5v
3. check electric system if it have creepage, otherwise damage battery,



4. if battery's volt is not enough, electrica energy is low, please remove of battery and electricize, on time, only have 5-6hours is ok,
5. battery put on the place of low temperature, dryness, aeration, clean, three month or six month must need electricize,

#### WARNING

- The battery electrolyte contains sulfuric acid. Protect your eyes, skin and clothing. In case of contact, flush thoroughly with water and get prompt medical attention, especially if your eyes are affected.
- The battery exhaust hydrogen gas, which can be highly explosive. Do not smoke or allow flames or sparks near the battery, especially during charging.

### 8.8 Check the generating set carbon brush and slip ring

Often check the generating set carbon brush and slip ring. Readjust if there is spark.

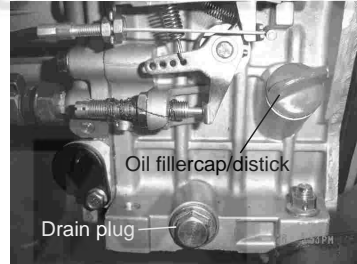
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## 9. LONG-TERM STORAGE

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If store the generating set for long periods, make the following preparations.

1. Operate the engine for about 3 minutes and then stop.
2. Stop the engine. Drain the engine oil while the engine is still warm and fill with fresh oil.

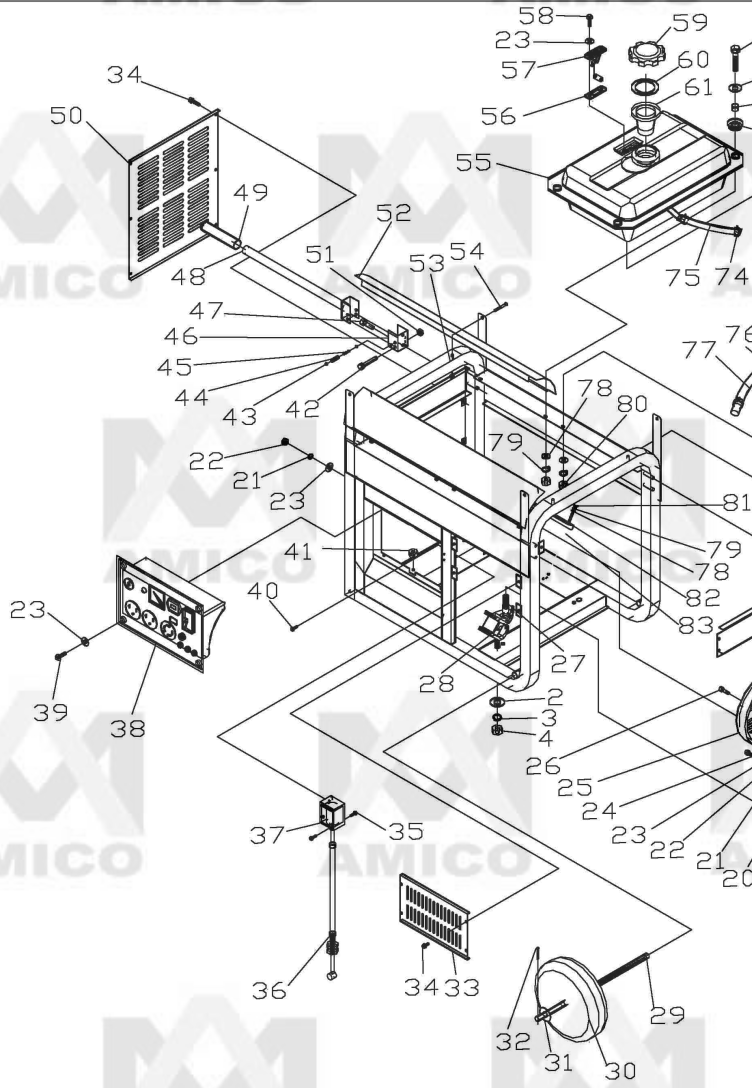


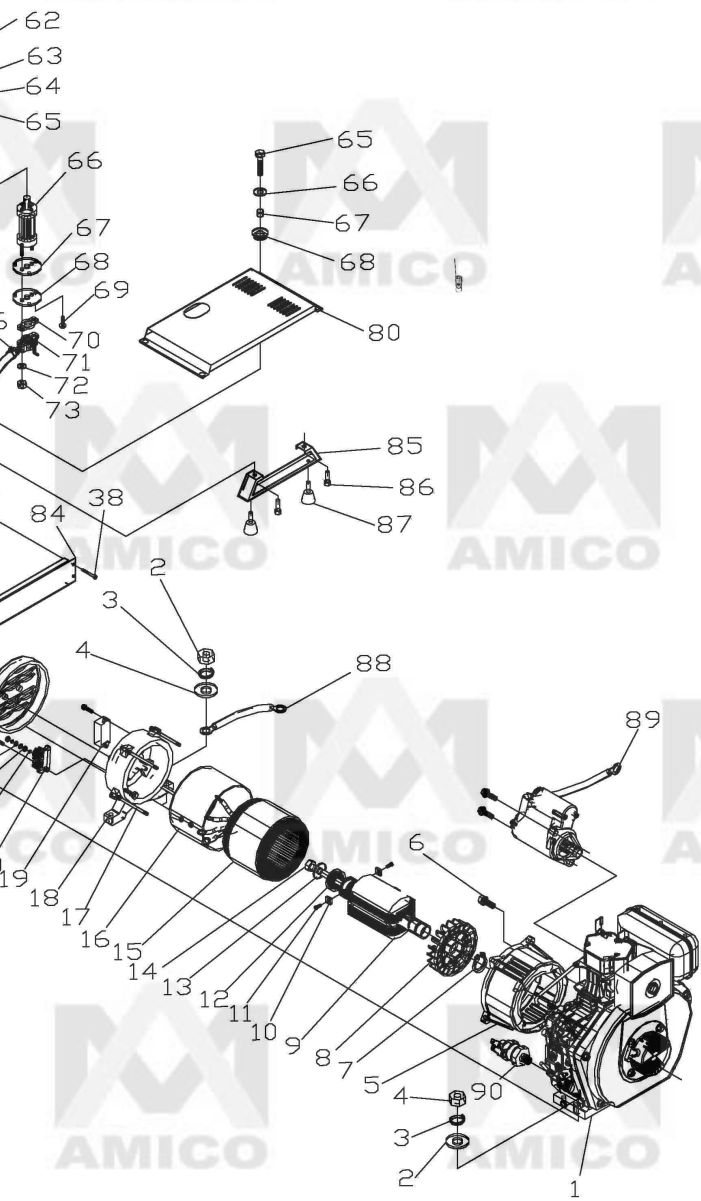
3. Remove the screw plug on the cylinder head cover and refill 2cc engine oil, then put the plug in place,
4. Recoil starting:  
Push the decompression lever down (Non-compression position) and hold it while you pull the recoil starter 2-3 times. (Do not start the engine.)  
Electric starting:  
Turn the engine 2~3 seconds with the decompression lever set at the non-compression position, and the starting key at the "START" position. (Do not start the engine.)
5. Pull the decompression lever up. Pull the recoil starter slowly. Stop when you feel resistance. (at this position, both intake/exhaust valves are closed to prevent the engine from the rust.)
6. Wipe off the oil and dirt from the engine and store in a dry place,

## 10.TROUBLESHOOTING AND REMEDY

Fault Cause	Remedy
Fuel oil is not sufficient	Refill the fuel oil
Fuel cock is not at START position	Turn it to START position
Fuel injection pump and nozzle do not deliver the fuel or delivery insufficient fuel.	Remove the nozzle and repair it at test table.
The governor lever is not at START position.	Set the lever to START position
Check the engine oil level.	The specified oil level should be between the upper level and lower level.
The nozzle has dirty.	Clean the nozzle
The speed and force to pull the re-coil starter are not enough,	Start the engine according to the start procedures included in this book.
The battery has no electricity.	Charge it or replace it with a new one.
Main switch not be turned on,	Turn the main switch to ON position.
The carbon brush already worn.	Replace the carbon brush.
The contact of the socket is not good.	Adjust the socket.
The rated speed can not attached.	Adjust it according to the requirements.
AVR is damaged.	Replace the AVR
The diesel engine can not start	The generating set can not generate

# 11.DETAIL DIAGRAM

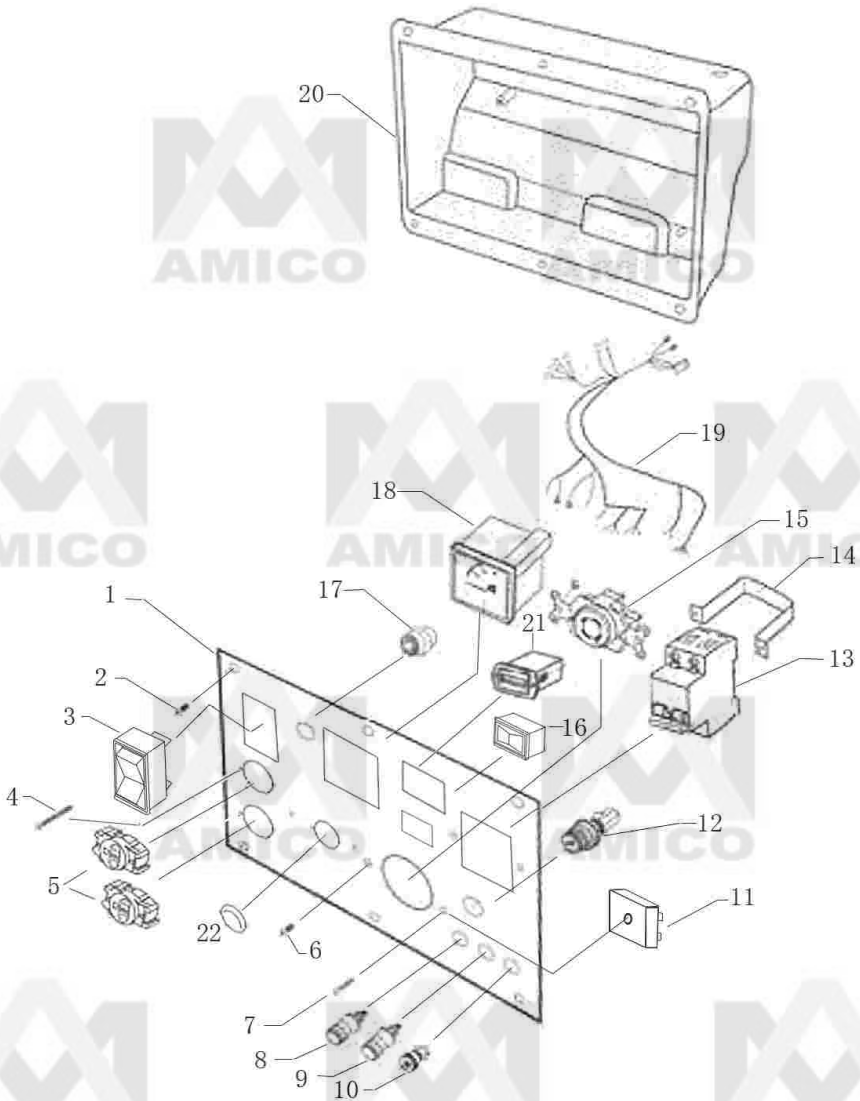




Number	Part Description	Quantity	Part Number
1	Diesel Engine	1	AHW6000LE001
2	Φ60 Gasket	4	AHW6000LE002
3	ΦSpring Gasket	4	AHW6000LE003
4	M10 Nut	4	AHW6000LE004
5	Front Cover Of Alternator	1	AHW6000LE005
6	M10 X 30 Bolt	1	AHW6000LE006
7	The Axis Uses The Elastic Ring	1	AHW6000LE007
8	Fan Blade	1	AHW6000LE008
9	Rotor	1	AHW6000LE009
10	Rectifier	2	AHW6000LE010
11	M5 X 20 Bolt	2	AHW6000LE011
12	Bearing	1	AHW6000LE012
13	Big Size Plain Gasket	1	AHW6000LE013
14	Alternator Center Bolt	1	AHW6000LE014
15	Stator	1	AHW6000LE015
16	Electrical Machinery Guard Shield	1	AHW6000LE016
17	Nearly Stator Bolt	4	AHW6000LE017
18	Alternator Back Cover	1	AHW6000LE018
19	Capacitor	1	AHW6000LE019
20	Patch Bay	1	AHW6000LE020
21	Φ5 Gasket	1	AHW6000LE021
22	Φ5 Spring Gasket	1	AHW6000LE022
23	M5 Nut	1	AHW6000LE023
24	M5 X 16 Bolt	2	AHW6000LE024
25	Alternator Back Fan cover	1	AHW6000LE025
26	M5 X 12 Bolt	2	AHW6000LE026
27	Frame	1	AHW6000LE027
28	Anti-rattler	4	AHW6000LE028
29	Axle	1	AHW6000LE029
30	Solid Wheel 10"	2	AHW6000LE030
31	Φ16 Gasket	4	AHW6000LE031
32	Pin	2	AHW6000LE032
33	First Guard Shield	1	AHW6000LE033
34	M6 X 12 Bolt	4	AHW6000LE034
35	M3 X 8 Bolt	2	AHW6000LE035
36	Handle	1	AHW6000LE036
37	Electro-magnet	1	AHW6000LE037
38	Pannel Ass	1	AHW6000LE038
39	M5 X 16 Bolt	4	AHW6000LE039
40	ST 5 X 16 Screw	4	AHW6000LE040
41	M10 Nut	1	AHW6000LE041
42	M6 X 45 Bolt	2	AHW6000LE042
43	Φ8 Steel Ball	2	AHW6000LE043
44	Spring	2	AHW6000LE044
45	Covering Pipe	2	AHW6000LE045

Number	Part Description	Quantity	Part Number
46	Handle Salver	2	AHW6000LE046
47	M6 X 35 Bolt	2	AHW6000LE047
48	Handle	2	AHW6000LE048
49	Rubber Covering	2	AHW6000LE049
50	Sides Board	1	AHW6000LE050
51	M6 Nut	2	AHW6000LE051
52	Arc Board	2	AHW6000LE052
53	M6 Nut	4	AHW6000LE053
54	M6 X 35 Bolt	4	AHW6000LE054
55	Fuel Tank	1	AHW6000LE055
56	Fuel Meter Rubber Pad	1	AHW6000LE056
57	Fuel Meter	1	AHW6000LE057
58	M5 X 10 Half Bolt	2	AHW6000LE058
59	Fuel Tank Cover	1	AHW6000LE059
60	Fuel Tank Cover Seal	1	AHW6000LE060
61	Net Cup	1	AHW6000LE061
62	M6 X 25 Bolt	4	AHW6000LE062
63	Φ6 Big Size Plain Gasket	4	AHW6000LE063
64	Bush	4	AHW6000LE064
65	Fuel Tank Anti-rattler	4	AHW6000LE065
66	Diesel Strainer	1	AHW6000LE066
67	Paper Gasket	1	AHW6000LE067
68	Steel Gasket	1	AHW6000LE068
69	M5 X 10 Bolt	2	AHW6000LE069
70	Fuel Switch Seal Gasket		AHW6000LE070
71	Oil Switch	1	AHW6000LE071
72	Φ6 Spring Gasket	2	AHW6000LE072
73	M6 Nut	2	AHW6000LE073
74	Back Oil Pipe Clip	1	AHW6000LE074
75	Back Oil Pipe	1	AHW6000LE075
76	Intake Oil Pipe Clip	1	AHW6000LE076
77	Intate Oil Pipe	1	AHW6000LE077
78	Φ6 Plain Gasket	2	AHW6000LE078
79	Φ6 Spring Gasket	2	AHW6000LE079
80	M6 Nut	2	AHW6000LE080
81	M6 Nut	2	AHW6000LE081
82	Battery Board	1	AHW6000LE082
83	Battery	1	AHW6000LE083
84	Side Board	1	AHW6000LE084
85	Connect Board	1	AHW6000LE085
86	M8 X 16 Bolt	2	AHW6000LE086
87	Pad	2	AHW6000LE087
88	Negative(-) Battery Cable	1	AHW6000LE088
89	Positive(+)Battery Cable	1	AHW6000LE089
90	Low Oil Alert	1	AHW6000LE090

## 12.PANEL DETAIL DIAGRAM





Number	Part Description	Quantity	Part Number
1	Panel	1	AHW6000LE091
2	M6X12 Bolt	6	AHW6000LE092
3	Starter Switch	1	AHW6000LE093
4	M4X30 Bolt	4	AHW6000LE094
5	3 Prong Socket	2	AHW6000LE095
6	M4X15 Bolt	2	AHW6000LE096
7	M5X25 Bolt	2	AHW6000LE097
8	Positive DC Port	1	AHW6000LE098
9	Negative DC Port	1	AHW6000LE099
10	Grounded Bolt	1	AHW6000LE100
11	Integrating	1	AHW6000LE101
12	DC Fuse	1	AHW6000LE102
13	Breaker	1	AHW6000LE103
14	Breaker Bracket	1	AHW6000LE104
15	4 Prong Socket	1	AHW6000LE105
16	Current Adjusting Switch	1	AHW6000LE106
17	Oil Alert Lamp	1	AHW6000LE107
18	Voltmeter	1	AHW6000LE108
19	Wiring Harness	1	AHW6000LE109
20	Box	1	AHW6000LE110
21	Hour Meter	1	AHW6000LE111
22	Current Adjust Switch	1	AHW6000LE112



## Limited Warranty

AMICO provides a one-year limited warranty for AMICO generators. All products covered by this limited warranty which are used in commercial applications are warranted to be free of defects in material and workmanship for 90 days from the date of original purchase. AMICO warrants to the original purchaser that the alternator and engine for its portable generator will be free from the defects in materials or workmanship for the items and period set forth below from the date of original purchase.

During warranty period, AMICO will repair or replace any part that, upon examination by AMICO, is found to be defective under normal use and service. Starting batteries are not warranted by AMICO. All transportation cost under warranty including return to the factory if necessary, are to be prepaid by the purchaser. All decisions of AMICO with regard to this limited warranty shall be final.

This warranty does not cover:

1. Merchandise sold as reconditioned, used as rental equipment, or floor or display models.
2. Merchandise that has become damaged or inoperative because of ordinary wear, misuse, cold, heat, rain, excessive humidity, freeze damage, use of improper chemicals, negligence, accident, over loading, over speeding, improper maintenance, the use of accessories or attachments not recommended by AMICO, or unauthorized repair or alterations.
3. Expendable parts or accessories supplied with the product which are expected to become inoperative or unusable after a reasonable period of use.
4. Any incidental, indirect or consequential loss, damage, or expense that may result from any defects, failure or malfunction of the products is not covered by this warranty.

For service, please e-mail to or fax to 562-908-1899, Warranty service can be performed only by AMICO authorized service facility. This warranty will not apply to service at any other facility. At the time of requesting warranty service, evidence of original purchase date must be presented.

## PRODUCT REGISTRATION CARD

For more efficient customer service, please fill out the information below and mail to our produce Warranty and Registration Division:

Amico International Corp.  
4825 Gregg Road,  
Pico Rivera, CA 90660, U.S.A  
Tel: 562-908-0088 Fax: 562-908-1899  
Website: www.amicousa.com

Model No. \_\_\_\_\_ Engine Serial No. \_\_\_\_\_ Purchase Date. \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Purchased from:     Retail location     Private Consumer     Other \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Telephone w/area code \_\_\_\_\_ Purchase Price \_\_\_\_\_

Purchased:  NEW or  USED

Consumer information :

Name \_\_\_\_\_ Telephone w/area code \_\_\_\_\_

Address \_\_\_\_\_ Suite or Apt No. \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Country \_\_\_\_\_

Are you a:     Business    or     Residence

Product Usage Information :

How often will you use this product?

Everyday

Periodically

Emergency use only

Other \_\_\_\_\_

What type of application will you use this produce in ?

Heavy Commercial

Moderate Commercial

Light Commercial

Tradeshows

Heavy residential

Moderate Residential

Light Residential

Camping, backpacking

Other \_\_\_\_\_

### IMPORTANT INFORMATION

It is critical to your warranty that the original point of sales receipt be retained by current consumer, and in order to comply with our product Warranty Statement you must return this registration card within 15 days of original purchase. Product warranty is valid from original date of purchase.

List for comments from users

		Date of Manufacture	
Name of user		Model Number	
Address of user		Occupation	
Place of purchase			
Packaging conditions			
Operating conditions			
Parts Conditions			
Malfunction problem			
Opinions or suggestions			

Note: Please mail the above card to:

Amico International Corp.

4825 Gregg Road,

Pico Rivera, CA 90660, U.S.A

Tel: 562-908-0088 Fax: 562-908-1899

Website: [www.amicousa.com](http://www.amicousa.com)

Appendix:

1. Attached list of tools, fittings, and subassemblies

Order No.	Name	Qty	Remarks
1	4-Stroke Air-cooled Diesel Generator Set	1	
2	Kit	1	
3	Plastic cover	1	
4	Plug and power supply	1	

2. Attached technical documents

Order No.	Name	Qty	Remarks
1	Air cooled diesel generator manual	1	
2	Diesel engine instruction manual	1	
3	Diesel engine parts listing	1	
4	Certificate of Quality	1	
5	Packing List	1	