APG3202

Owner's Manual

6500 WATT SILENT DIESEL GENERATOR

READ AND SAVE THESE INSTRUCTIONS!

www.allpoweramerica.com

Preface

Thank you for purchasing this ALL-Power Generator. We are proud of our products and have designed this unit for years of safe, reliable service.

This manual will instruct you in the proper operation and service of your All-Power generator. Please read this manual prior to using the generator to insure safe and proper operation. At all times, follow the instructions to keep your generator in the best working condition and to extend its life. Should you have any comments or problems, please contact us at 888-896-6881 and we will direct you to an authorized parts and service center. Unless there was concealed damage, do not take this unit back to the retailer where you purchased it. We will work with you to answer any questions and solve any problems.

This manual addresses the general operation of this unit. As products and their operation can change, this manual is intended only for use with this specific model and does not refer to any other models offered by our company.

Please pay particular attention to the warning and caution indicators both within this manual and on the unit itself.

A warning label indicates that severe personal injury or even death may occur if you do not follow the instructions.

A caution label indicates that either serious personal injury or equipment damage may result if instructions are not followed.

The All-Power diesel generator will perform safely and to specification if operated according to the following instructions. Failure to do so may result in serious personal injury and/or equipment damage. If you do not understand the contents of this instruction manual, contact All-Power America, at 626-961-5640 for further clarification.

Warning:

1. Prevent the threat of fire

- **Never** add fuel while the engine is running.
- Wipe off any spilled fuel with a clean cloth before starting.
- Keep all explosive and flammable items safely away from the generator.
- **Maintain adequate ventilation** with **at least** three feet of clear space on all sides of the generator from buildings and other pieces of equipment.
- **NEVER** operate this unit in a closed room or garage.
- Only operate the generator on a level surface
- Do not store the generator indoors while the engine is still hot.

2. Prevent Inhalation of Exhaust Fumes

- Carbon Monoxide is an odorless gas that can **kill you!**
- **Do not** operate this generator in a confined space where the exhaust cannot escape. This means:
  - **Do not** use this unit indoors.
  - **Do not** use this unit in a closed garage.
  - **Do not** attempt to vent the exhaust of this unit outdoors while using the unit indoors.
- Should you experience a headache, ringing in your ears or begin to feel drowsy, **immediately** get some fresh air away from the generator.

3. Prevent being burned

- The muffler and engine body of this generator get very hot when the engine is operating or shortly thereafter. **Do Not Touch** these parts or you may be severely burned.

4. Prevent Electrical Shocks and Short Circuits

- To avoid electrical shocks or short circuits, do not:
  - Touch the unit with wet hands
  - Stand in water
  - Operate in the rain or place the unit in standing water

- **Note:** This generator is **not** waterproof and therefore should **not** be placed in rain, snow, standing water or any area where there could be water spray. Operating a unit in these environments may cause electrical short circuits that can cause electrical shocks.
- **This generator should also be grounded** to prevent electrical shocks from faulty appliances. To ground this unit, simply connect a length of heavy copper wire between the unit and a ground source.
- **Do Not** plug in any power cord until **after** the unit is operating. If equipment is attached when starting the generator, it may cause the unit to move resulting in potential injury.

Caution

- Most appliances require more power to start than their rated wattage. Therefore make certain that you do not overload the generator with too many appliances.
- Do not exceed the current limit of any of the sockets on the generator.
- **Do not** connect the generator to a household circuit. The may cause damage to the generator and also to the wiring in your house as well as the electrical appliances.

5. Batteries:

- Batteries contain sulfuric acid which can burn your eyes and skin. Whenever working with a battery, protect your eyes and skin from exposure to the acid. In case of contact with any acid, act **immediately** by thoroughly flushing the affected area with clean cold water and seek **prompt medical attention.**
- Batteries also generate hydrogen gas which can be extremely explosive. **Do not** smoke or allow flames near a battery, especially while in a charging mode. **Always** charge batteries in a fully ventilated area.

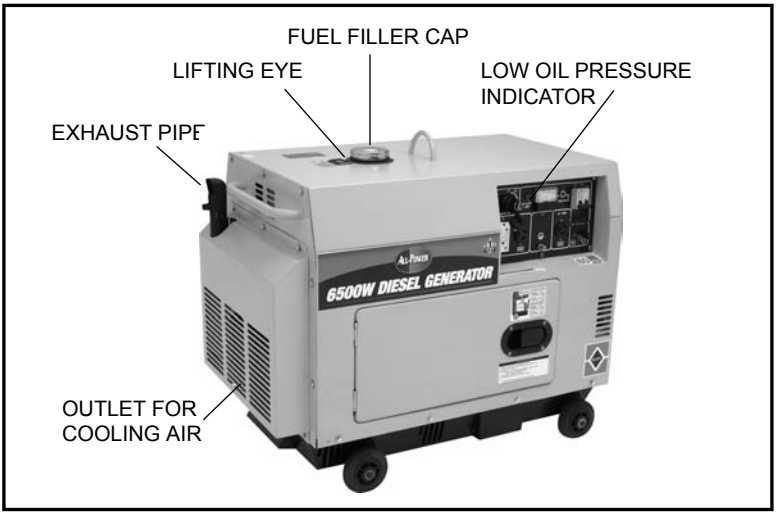
Contents

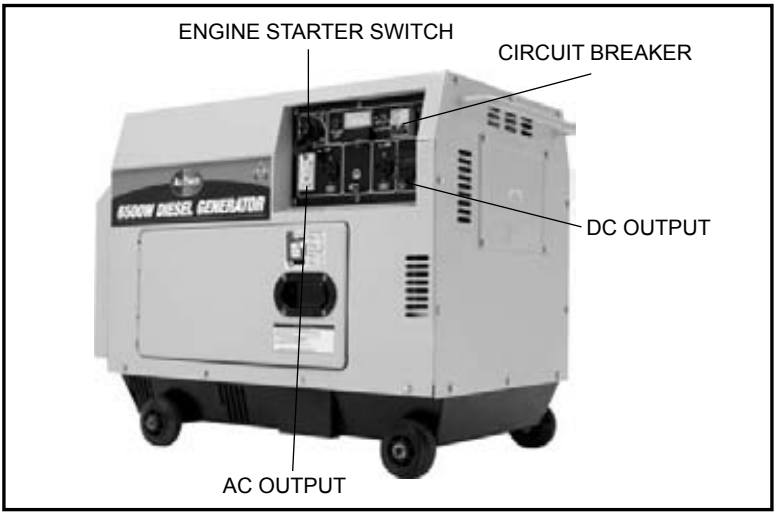
1. Technical Specifications and Data

Model	APG3202
Rated frequency (Hz)	60
Rated voltage (V)	240/120
Rated current (A)	25/50
Rated output power (kVA)	5.0
Max output power (kVA)	6.5
Rated rotation speed (rpm)	3600
Power factor cosφ	1
Phase number	Single
Pole number	2
Excitation Transistorized	self-excitation constant voltage (AVR)
ATS type	without ATS
Alternator type	KT5
Structure type	Silent type
Fuel tank capacity(L)	16
Continuous running time(hr)(at rated power)	8
Noise level [dBA/7m](zero load～full load)	70
Starter system	electric starter/recoil start
Fuel type	0# (summer),－10# (winter), －35#(chill cold) diesel
Lube oil brand	SAE10W30 (above CC grade)
Engine type	Single cylinder,4-stroke,air-cooled,vertical,diesel engine
Bore × stroke(mm)	86×72
Compression ratio	19:1
Engine Power	10HP
Rotation direction(from the flywheel)	clockwise
The lowest fuel consumption(g/kw.h)	3600r/min:281

2. Configurations

2.1 Parts name





2.2 Control panel

3. Before Starting Your Generator

3.1 Selection and handling of diesel fuel

- Only use light diesel fuel
- Keep dust and water out of the fuel. Failure to do so will create problems with the injection pump and nozzles.
- **Do not** overfill the tank beyond the red plug inside the fuel oil filter. Doing so can be very dangerous.

Warning:

- Refuel in a well-ventilated area with the engine **off.**
- Do not smoke or allow open flames or sparks near where you are refueling or where the fuel is stored.
- Do not overfill the tank. Make sure that the fuel cap is securely tightened after refueling.
- Do not spill any fuel. If fuel is spilled, make certain that the spilled fuel is removed **before** starting the engine.

3.2 Check and refill engine oil

Warning:

- Before every start, make certain that your generator is on a level surface and then check the oil level.
- The engine may be damaged if it is operated with insufficient oil.
- Too much oil may cause a sudden increase in engine speed also damaging your generator.

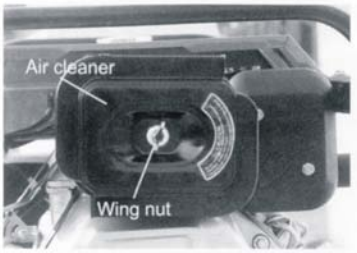
Caution: Your All-Power generator is equipped with a “low oil” warning system. This system automatically stops the engine when the oil level becomes dangerously low, preventing major damage to your generator. **Do not** rely totally on this system for maintaining proper oil levels, as it only represents an emergency situation and not a method for checking your generator’s oil level.

- **Oil Selection**

It is very important that you select the proper engine oil to maintain the life and performance of your generator. If inferior or the wrong weight oil is used, or if your engine oil is not replaced periodically, there is a risk of major damage to your engine due to overheating. All-Power recommends CC/CD oil only classified by API. Choose the applicable viscosity according to your local temperature.

3.3 Servicing the air filter

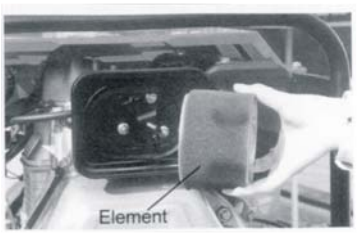
1. Remove the wing nut from the air filter cap and then the cover itself. This will allow you to remove the filter.



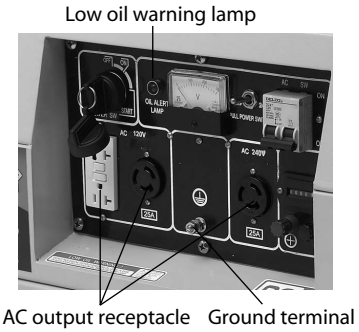
Caution:

- Do not wash the filter with detergent.
- Replace the air filter when it impedes the flow of air and cannot be completely cleaned. One indicator is when the engine exhaust changes color.
- Never operate the generator without the air filter.

2. Reattach the air filter cover and tighten the wing nut.



3.4 Checking the Generator



1. Make certain that you turn off the main switch and any other electrical load before inspecting the generator.

Warning:

- Turn off the main switch before starting
- The generator must be grounded to prevent electrical shocks.

2. Operating dual voltage generators.
   - Make sure that you use the correct outlet for the rated voltage of the device being powered.

Caution:

- The main switch must be in the "on" position during operation.
- Before starting the engine, either **unplug the devices** to be powered or make certain that all of the devices are turned **"off".** *If the switches for the devices are left in the "on" position and the generator is started the sudden surge in power can be very dangerous.*

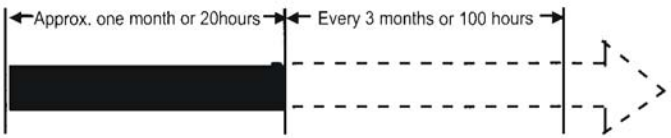
3.5 How to open the cabinet door and remove the protective covers of the generator.

1. Always open the generator cabinet door and inspect the engine prior to starting the generator. To do this, simply turn the lever counterclockwise and raise the door.
2. Loosen the wing nut of the air cleaner and inspect the cleaner.
3. Open the wing nut on the cover and inspect the nozzle cover.

3.6 Breaking in your new generator

The first 20 hours of operation are required to properly seat your generator's operating parts. During this period, the following steps **must** be taken:

- During the initial operation, run the generator at low speed and with nothing plugged in for a minimum of **five minutes.**
- Avoid applying any heavy demands to the unit during the break-in period. All-Power recommends that the engine be operated at 3,000 RPM with no more than a 50% load for the first 20 hours of operation.



4. Starting the Generator

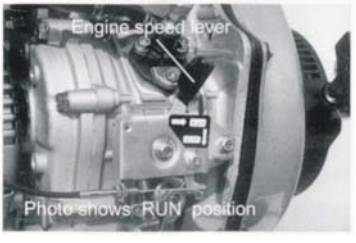
Warning: Do not plug in tools or devices prior to starting your generator.

4.1 Electric Starting

1. Starting (The preparations for electric starting are the same as for recoil starting)
   - Open the fuel valve

   - Set the engine speed lever on "RUN"

ENGINE SPEED LEVER



   - Turn the ignition key clockwise to the "START" position removing your hand from the key as soon as the engine starts. If the engine does not start in 10 seconds, wait 15 seconds and repeat the process.

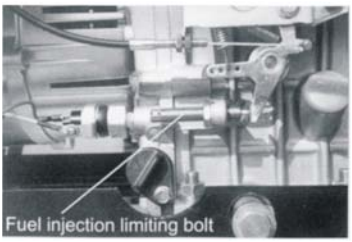
2. Battery: If the battery has an open cell design, check the water level every month. If it is low, refill using distilled water until the cell is full. If the battery is a sealed unit, checks for cracks and leaks.

Caution

If the distilled water level is too low, the engine may fail to start because there isn't sufficient battery power. If the water level is too high, the fluid will corrode surrounding parts shortening the life of the battery. Always maintain the level of distilled water at the recommended level. **Never** use well or tap water as the minerals in the water will destroy your battery.

5. Operating Your Generator

1. Before plugging anything into the generator, let your generator run for a minimum of three minutes at normal speed.



2. If your generator has a "low oil" light, check to make certain that it is not illuminated.

Caution

- The low oil warning light is activated by either a low pressure level or an inadequate amount of oil in the reservoir. When the low oil light is activated,

the engine will automatically stop. If you attempt to start the generator without addressing the problem, the unit will not start. When the “low oil” light illuminates, check the oil level first to make certain that there is adequate oil in the reservoir.

- **Do not** adjust either the engine governor bolt that controls engine speed or the fuel injection bolt that controls fuel mix. Doing so will affect the overall performance of your generator.

5.2 Operational System Checks

- Determine whether there is abnormal sound or vibration
- Determine whether the engine misfires or runs rough.
- Examine the color of the exhaust. If it is too black or too white, shut off your generator and contact your All-Power service representative.

Caution:

- If your generator has been in operation, the muffler will be extremely hot. **Do Not** touch the muffler as you can be severely burned.
- Never refill the fuel tank while the engine is running.

6. Your Generators Capacity

Caution

- Do not attempt to start two or more devices simultaneous. First plug in or start one device and then the next and then the next.
- Do not use floodlights with other devices.

6.1 AC application

- Make certain that you operate the generator at its rated speed in RPM’s. If this is not done, the AVR or *Automatic Voltage Regulator* will incorrectly produce too much voltage shortening the life of the AVR.
- After switching on the air switch, check the voltmeter on the control panel. The voltmeter should point to 120V +/- 5% for a single phase generator and 230V +/- 5% (50 Hz) for a multiphase generator.

- When the dual voltage generator exceeds or is below these levels, then the “air” switch should be in the “OFF” position. If not both the generator and the devices powered by it can be damaged.
- Always connect devices to the generator with the highest demand device first and then the lesser demand devices afterward. If the operation becomes overloaded, the generator engine will lag or stop suddenly. If this happens, unplug all devices immediately, turn off the main switch on the generator and check all systems.
- Three phase generators
  - Make certain that you balance all three phases during operation. Stop the engine and check to see if the generating is operating within 20% of specification. If the engine is not, reduce your load or turn off the generator.
  - The sum of the load for each phase must be below the overall rated load. In addition, the overall current drawn must be less than the overall rated current.
  - The phase arrangement A, B, C, D (or U, V, W, N) should be from left-to-right or clockwise.
  - If you are attempting to start three non-synchronous motors, always start with the heaviest duty motor first and then progress to the lighter duty units.

Note: If overloading the circuit trips the circuit breaker, reduce the electrical load on the circuit and then wait a few minutes before resuming operation.

6.2 DC application

1. The DC terminals are only for charging the 12V battery included with your generator.
2. Set the “air” switch in the “OFF” position while charging the battery. On the 12V output terminals, a charge switch can be installed so that the unit can be turned on and off as desired.
3. If your generator has an automatic battery with separate leads, make certain that you disconnect the negative lead while you are charging the battery.

Caution

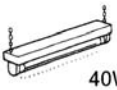
- Identify and connect positive-to-positive and negative-to-negative poles from, the battery to the engine. Crossing the wires will destroy both the battery and the electrical components of your generator.
- If you attempt to use a larger battery than recommended you will create excessive current that will blow the fuse in the generator.
- **Do not** attempt to operate the generator while it is still connected to the battery.
- **Do not** use a 12V battery and AC current at the same time.

Caution

- All lead batteries emit explosive gas when being charged. Keep sparks, flames and cigarettes away from the battery while charging. To prevent sparks, always connect the booster cables to the battery first and then to the generator. When the battery is charged, disconnect the cables from the generator first.
- Charge the battery in a well ventilated place.
- Unless the battery is sealed, remove the caps from each cell before charging.

  Stop charging if the battery feels extremely hot. If the temperature exceeds 45C or 113F then the battery is too hot.

6.3 All electrical appliances, particularly motor driven equipment, have extremely highly levels of current draw during their start-up period. The table below provides a quick reference regarding connecting different types of devices to the generator.

TYPE	WATTAGE		TYPICAL APPLIANCE	EXAMPLE		
	STARTING	RATED		APPLIANCE	STARTING	RATED
· Incandescent lamp · Heating appliance	X1	X1	 Incandescent lamp TV 	 Incandescent lamp 100W	100VA (W)	100VA (W)
· Fluorescent lamp	X2	X1.5	 Fluorescent lamp	 40W Fluorescent lamp	80VA (W)	60VA (W)
· Motor-driven equipment	X3~5	X2	 Refrigerator  Electric fan	 Refrigerator 150W	450-750VA (W)	300VA

7. Stopping Your Generator

Step I: Disconnect all electrical plugs from the generator outlets **before turning off the generator!**

Step II: Turn off the **"AIR"** switch on the generator.

Step III: Set the speed level in the **"run"** position, operating the generator for about three minutes with nothing plugged in. **Note:** ***Do Not*** *stop the generator without this step, as the operating temperature of the engine will increase thereby damaging the unit.*

Step IV: Depress the **"stop"** lever

Step V: If the unit has an electric starter, turn the key to the **"off"** position.

1. Move the fuel lever to the **"S"** position.

Step VI: Retract the recoil starter handle until you feel resistance. (At this point both the intake and exhaust valves are closed). Leave the handle in the position as it prevents damp air from entering the engine and thereby prevents rust from forming.

Warning:

- Should the engine continue to operate when the speed lever is placed in the "Stop" position, either turn the fuel valve to the "Close" position or loosen the nut of the high pressure fuel pipe on the pump side of the engine. If you do this, remember to tighten it again before attempting to start the engine.
- **Do not** attempt to stop the engine with the decompression lever.
- **Always** make certain that all electrical plugs are removed from the generator outlets before turning off your generator.

8. Periodic Maintenance and Testing

Periodic inspections and service are very important for maintaining your generator's engine in proper working order. The following chart indicates your inspection and service frequency. Please keep this chart handy and refer to it as needed.

Warning:

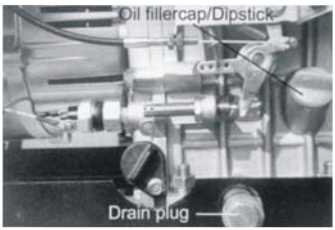
- Turn off the engine before performing any service. If the engine must be in operation, only do so in a well ventilated area as the exhaust contains carbon monoxide which can be fatal.
- After the generator has been operated, remove all dirt and sediments from the outside cover to prevent corrosion.

Intervals / Item	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)	○ (Second time)		
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		● Fisrt 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 agent.

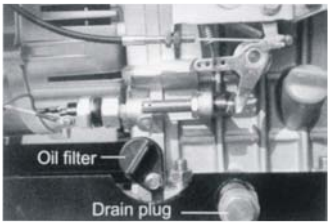
8.1 Replacing the Engine Oil

1. Operate the engine for two to three minutes without ***allowing the engine to get hot.***
2. Turn off the engine
3. *While the engine is still swarm*, remove the oil filter cap and the drain plug located on the bottom of the cylinder block, allowing the old oil to drain. Insert the drain plug, refill with recommended oil and place the oil filter cap back on the engine. *Remember to recycle your oil as it is a major cause of soil pollution.*



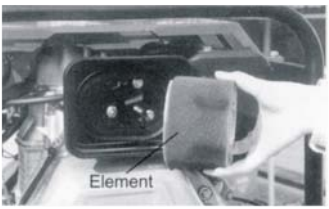
8.2 Cleaning the engine oil filter

Clean the engine oil filter every six months or 500 hours, whichever comes first. Replace if necessary with authorized All-Power parts.



8.3 Replacing the air cleaner

Do not clean the air cleaner with detergent. Replace the unit every six months or 500 hours, whichever comes first, with authorized All-Power parts.



Caution: Never operate the engine without the air cleaner or with a defective cleaner as it can damage the interior of your engine and shorten its life.

8.4 Cleaning and replacing the fuel oil filter

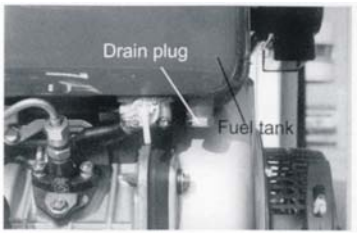
The fuel oil filter also requires periodic cleaning to insure maximum engine performance.

Cleaning: Every six months or 500 hours

Replacement: Every year or 1000 hours

1. Drain all fuel from the fuel tank.

2. Remove the small screw from the fuel valve, removing the fuel filter from its port.
3. Wash the filter thoroughly with diesel fuel.
4. Loosen the fastening nut, bottom cover and delivery discs for removing any carbon.
5. Replace the filter and all parts to their original position.



8.5 Tightening the Cylinder Head Bolt

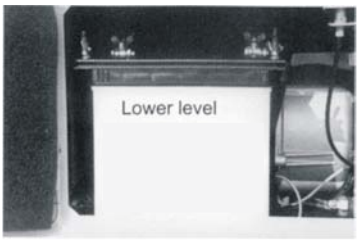
Tightening the cylinder head requires a special tool. **Do Not** attempt this yourself! Contact your authorized All-Power service center.

8.6 Checking the injection nozzle and fuel injection pump requires an authorize All-Power Service Center where they will:

1. Adjust the clearance for the intake/exhaust valves.
2. Grind the intake and exhaust valves
3. Replace the piston ring

Warning: Do not perform the injection nozzle test near an open flame as the fuel may ignite. Do not expose bare skin to the fuel as it may cause injury. **Always** keep away from the nozzle.

8.7 Checking refilling and charging the battery



Your diesel generator uses a 12V battery for starting. Through use, the battery may naturally lose some of its charge along with the distilled water inside. Before starting your generator, periodically check for physical damage to the battery and also the fluid levels. If the battery is damaged, replace it. If the fluid levels are low, fill each cell with distilled water as needed. Never use well or tap water as they contain minerals that will harm your battery and shorten its life.

Warning:

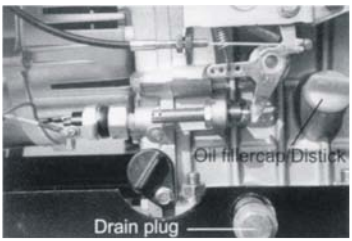
- Batteries contain sulfuric acid which can burn your eyes and skin. Whenever working with a battery, protect your eyes and skin from exposure to the acid. In case of contact with any acid **immediately** thoroughly flush the affected area with clean cold water and seek **prompt medical attention.**

- Batteries also generate hydrogen gas which can be extremely explosive. **Do not** smoke or allow flames near a battery, especially while in a charging mode. **Always** charge batteries in a fully ventilated area.

8.8 Inspecting the carbon brush and slip ring. Periodically, check the generators carbon brush and slip ring and readjust if there is a spark.

9. Long-Term Storage

If your plan on storing your generator for periods of time exceeding one month, please follow these guidelines:



1. Operate the engine for two to three minutes. ***Do not allow the engine to get hot.***
2. Turn off the engine
3. **While the engine is still warm**, drain the crankcase oil by opening the oil drain plug.
4. When all oil has drained, replace the plug and refill the oil reservoir with clean oil.
5. Remove the screw plug on the cylinder head and refill ¾ of an ounce of oil (22 CC) and replace the screw plug.
6. It is now necessary to turn the engine over **without starting it.**
   a) **Recoil Start:** Push the decompression level down to the non-compression position and hold it while pulling the recoil starter three times.
   b) **Electric Start:** Turn the engine for 2-3 seconds with the decompression lever set in the *non-compression mode* and the key in the "start" position.
7. Now pull the decompression lever up and pull the recoil starter slowly until you begin to feel resistance. In this position both the intake and exhaust valves are closed which prevents rust from forming inside the engine.
8. Wipe off any oil or dirt from the engine and store your generator in a dry place.

10. Troubleshooting & Solutions

	Fault Cause	Remedy
The diesel engine can not start	Fuel oil is not sufficient	Refill the fuel oil
	Fuel cock is not at the STATE position	Turn it to START position
	Fuel injection pump and nozzle do not delivery the fuel or delivery in sufficient fuel	Remove the nozzle and repair it at test table
	The govemor lever is not at START position	Set the lever to START position
	Low oil	The specified oil level should be between the upper level and lower level
	The nozzle is dirty	Clean the nozzle
	The speed and force to pull the recoil 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
The generating set can not generate	Main switch not turned on	Turn the main switch to ON position
	The carbon brush is worn	Replace the carbon brush
	The contact of the socket is not good	Adjust the socket
	The rated speed can no be attached	Adjust it according to the requirements
	AVR is damaged	Replace the AVR

GENERATOR DIAGRAM

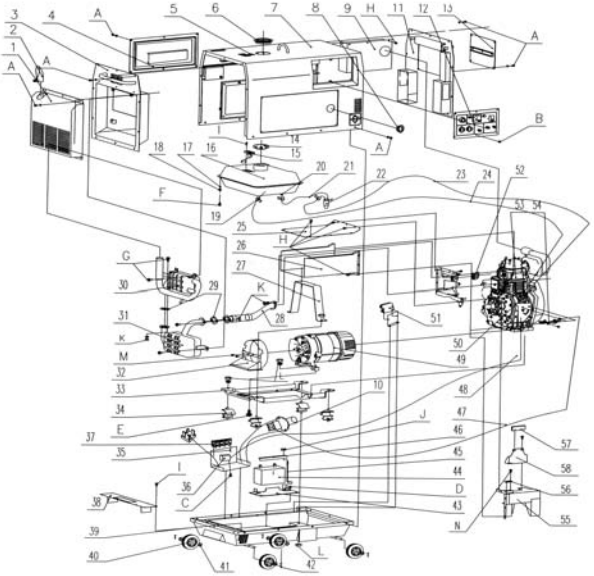


Table 5-1. *Please refer to figure 5-1 for illustration*

Number	Part Description	Quantity	Part Number (CFA6500LN)
1	SILENCER COVER	1	CFA6500LN1
2	SILENCER BEND	1	CFA6500LN2
3	LEFT BOARD	1	CFA6500LN3
4	BACK DOOR	1	CFA6500LN4
5	FIXING SLEEVE FOR OBSERVING BORE	1	CFA6500LN5
6	FIXING SLEEVE FOR INPUT OF FULE TANK	1	CFA6500LN6
7	MAIN COVER	1	CFA6500LN7
8	SWICH	1	CFA6500LN8
9	AIR FILTER BAFFLE	1	CFA6500LN9
10	ACCELERATOR ELECTOMAGNET	1	CFA6500LN10
11	RIGHT BOARD	1	CFA6500LN11
12	OUTPUT PANEL ASSEMBLY		CFA6500LN12
13	COVER OF OBSERVING BORE FOR AIR FILTER	1	CFA6500LN13
14	COVER OF FUEL TANK	1	CFA6500LN14
15	BUOY FOR OIL LEVERL INDICATION	1	CFA6500LN15
16	FUEL TANK	1	CFA6500LN16
17	LINING	1	CFA6500LN17
18	SHOCK ABSORPTION MAT		CFA6500LN18
19	CLIP	1	CFA6500LN19

GENERATOR PARTS LIST

20	CLIP	1	CFA6500LN20
21	FUEL INLET PIPE 1	1	CFA6500LN21
22	FUEL FILTER ASSEMBLY	1	CFA6500LN22
23	FUEL INLET PIPE 2	1	CFA6500LN23
24	FUEL LEAK-OFF PIPE		CFA6500LN24
25	COVER OF U TYPE CHAMFER	1	CFA6500LN25
26	U TYPE CHAMFER	1	CFA6500LN26
27	SUPPORT OF U TYPE CHAMFER	1	CFA6500LN27
28	OUTPUT PIPE	1	CFA6500LN28
29	GASKET OF SILENCER	1	CFA6500LN29
30	UPPER SILENCER		CFA6500LN30
31	LOW SILENCER	1	CFA6500LN31
32	BACK COVER OF ALTERNATOR	1	CFA6500LN32
33	BRACKET	1	CFA6500LN33
34	SHOCK ABSORPTION MAT	1	CFA6500LN34
35	TOW STRUCTURE OF ACCELERATOR	1	CFA6500LN35
36	ELECTOMAGNET		CFA6500LN36
37	BRACKET OF ELECTOMAGNET	1	CFA6500LN37
38	LONG COVER	1	CFA6500LN38
39	CHASSIS	1	CFA6500LN39
40	ROLLING WHEEL ON CHASSIS	1	CFA6500LN40
41	FLAT KEY	1	CFA6500LN41
42	PIN		CFA6500LN42

43	MOTHERBOARD OF ACCUMULATOR	1	CFA6500LN43
44	ACCUMULATOR	1	CFA6500LN44
45	BOLT	1	CFA6500LN45
46	PRESSINGPLAT E OF ACCUMULATOR	1	CFA6500LN46
47	PULLING WIRE FOR THROTTLE	1	CFA6500LN47
48	PULLING WIRE FOR TURN-OFF		CFA6500LN48
49	ALTERNATOR	1	CFA6500LN49
50	OUTPUT WIND LEADING SHAFT	1	CFA6500LN50
51	MANOSTAT	1	CFA6500LN51
52	GASKET OF OUTPUT BORE	1	CFA6500LN52
53	CF SERIES DISEL ENGINE	1	CFA6500LN53
54	PULLING ROLE FOR ACCELERATOR	1	CFA6500LN54
55	INTAKE WIND LEADING SHAFT	1	CFA6500LN55
56	PRESSING PLATE OF HIGH PRESSURE FUEL PIPE	1	CFA6500LN56
57	SHOCK PREVENTING MAT	1	CFA6500LN57
58	SHOCK PREVENTING HOLDER	1	CFA6500LN58
A	M6_16 BOLT,FLAT KEY	41	CFA6500LNA
B	M6_8 BOLT	4	CFA6500LNB
C	M4_8 BOLT	4	CFA6500LNC
D	M6_12 BOLT	4	CFA6500LND
E	M10_45 BOLT	4	CFA6500LNE
F	M6_16 BOLT	4	CFA6500LNF
G	M8_25 BOLT	5	CFA6500LNG
H	M6_12 BOLT	17	CFA6500LNH
I	M5_8 BOLT	12	CFA6500LNI
J	M6 NUT	2	CFA6500LNJ
K	M8 NUT_FLAT SPRING WASHER	6	CFA6500LNK
L	M10 NUT_FLAT SPRING WASHER	12	CFA6500LNL

GENERATOR PARTS LIST

M	M5_12 BOLT	2	CFA6500LNM
N	M6_22 BOLT	2	CFA6500LNN

Figure 5-2. *Electric panel parts drawing*

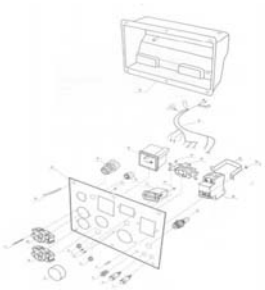


Table 5-2. *Please refer to Figure 5-2*

Number	Part Description	Quantity	Part Number (CFA6500LN)
1	Positive DC port	1	CF A6500LN59
2	Negative DC port	1	CF A6500LN60
3	Grounded bolt	1	CF A6500LN61
4	Bolt	2	CF A6500LN62
5	Large Nut	1	CF A6500LN63
6	Bolt	2	CF A6500LN64
7	Bolt	2	CF A6500LN65
8	Lar ge Nut	1	CF A6500LN66
9	Current Adjusting Switch	1	CF A6500LN67
10	3 prong Socket	2	CF A6500LN68
11	Bolt	6	CF A6500LN69
12	Electric panel bolt	6	CF A6500LN70
13	Electric Panel	1	CF A6500LN71
14	Starter switch	1	CF A6500LN72
15	Lar ge nut	6	CF A6500LN73
14	Stator Unit	1	CF A6500LN99
15	Dust Cover	1	CF A6500LN100
16	Oil alert lamp	1	CFA6500LN74
17	Hour meter	1	CFA6500LN75
18	Hour meter bolts	2	CFA6500LN76
19	DC Fuse	1	CFA6500LN77
20	Voltmeter	1	CFA6500LN78
21	Nut	2	CFA6500LN79
22	4 prong socket	1	CFA6500LN80

GENERATOR PARTS LIST

23	Breaker bracket	1	CFA6500LN81
24	Nut	2	CFA6500LN82
25	Breaker	1	CFA6500LN83
26	Wiring harness	1	CFA6500LN84
27	Electrical box	1	CFA6500LN85

Figure 5-3. *Generator head assembly*

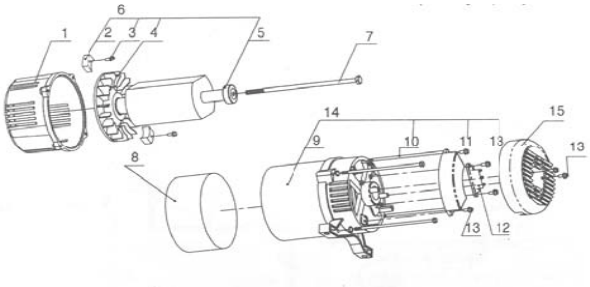


Table 5-3. *Please refer to figure 5-3*

Number	Part Description	Quantity	Part Number (CFA6500LN)
1	Front end cover	1	CFA6500LN86
2	Diode	2	CFA6500LN87
3	M4 x 8 Bolt	2	CFA6500LN88
4	Fan Blade	1	CFA6500LN89
5	Bearing	1	CFA6500LN90
6	Rotor Unit	1	CFA6500LN91
7	Center bolt	1	CFA6500LN92
8	Motor cover	1	CFA6500LN93
9	Stator	1	CFA6500LN94
10	Long bolt	4	CFA6500LN95
11	Capacitor	1	CFA6500LN96
12	Wiring Seat	1	CFA6500LN97
13	M5 x 15 Bolt	6	CFA6500LN98
14	Stator Unit	1	CFA6500LN99
15	Dust Cover	1	CFA6500LN100

LIMITED WARRANTY

All-Power America warrants to the original purchaser who uses the product in a consumer application (personal, residential or household usage) that all products covered under this Warranty are free from defects in material and workmanship for one year from the date of purchase. All products covered by this limited Warranty which are used in commercial applications (i.e. income producing) are warranted to be free of defects in material and workmanship for 90 days from the date of original purchase. Products covered under this Warranty include air compressors, air tools, service parts, pressure washers and generators.

All-Power America will repair or replace at All-Power America's sole option, products or components which have failed within the warranty period. Service will be scheduled according to the normal work flow and business hours at the service center location, and the availability of replacement parts. All decisions of All- Power America with regard to this limited warranty shall be final.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RESPONSIBILITY OF ORIGINAL PURCHASER (Initial User):

To process a warranty claim on this product, DO NOT return item to the retailer. The product must be evaluated by an Authorized Warranty Service Center. For the location of the nearest Authorized Warranty Service Center contact the retailer or place of purchase.
Retain original cash register sales receipt as proof of purchase for warranty work.
Use reasonable care in the operation and maintenance of the product as described in the Owner’s Manual(s).
Deliver or ship the product to the nearest Authorized Warranty Service Center. Freight costs, if any, must be paid by the purchaser.
Air compressors with 60 and 80 gallon tanks will be inspected at the site of installation. Contact the nearest Authorized Warranty Service Center that provides on-site service calls for service call arrangements.
If the purchaser does not receive satisfactory results from the Authorized Warranty Service Center, the purchaser should contact All-Power America.

LIMITED WARRANTY

THIS WARRANTY DOES NOT COVER:
Merchandise sold as reconditioned, used as rental equipment, or floor or display models.
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, failure to operate the product in accordance with the instructions provided in the Owner's Manual(s) supplied with the product, improper maintenance, the use of accessories or attachments not recommended by All-Power America, or unauthorized repair or alterations.
Repair and transportation costs of merchandise determined not to be defective.
Costs associated with assembly, required oil, adjustments or other installation and start-up costs.
Expendable parts or accessories supplied with the product which are expected to become inoperative or unusable after a reasonable period of use.
Merchandise sold by All-Power America which has been manufactured by and identified as the product of another company, such as gasoline engines. The product manufacturer's Warranty, if any, will apply.
ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECTS, FAILURE OR MALFUNCTION OF THE PRODUCT IS NOT COVERED BY THIS WARRANTY. Some states do not allow the exclusion, so it may not apply to you. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF ORIGINAL PURCHASE. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply

Distributed by:
ALL-POWER AMERICA

16273 E. Gale Ave
City Of Industry, California 91745
www.allpoweramerica.com