

**INVERTER GENERATOR
USER MANUAL**


Model: APG2000is
4-Stroke Engine
Original instructions

HAVE QUESTIONS OR NEED SERVICE
DO NOT RETURN TO STORE!
888.896.6881



www.jdna.com

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- JD North America reserves the right of modification of product and revision of the manual without any notice.
- Take this manual as a part of the generator. If the generator is resold, it is required to take the manual alone with the generator.
- This manual contains how to correctly operate the generator, please read carefully before using the generator. Correct and safe operation will guarantee your safety and extend the working life of generator.
- JD North America will continuously innovate and develop its products both in design and quality, although it is the newest revised manual, maybe the content in this manual might have slight difference from the real product.
- Please contact your retailer if you have any questions or doubts.

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1.SAFETY INFORMATION

To ensure personal and property safety, please carefully read the following information.

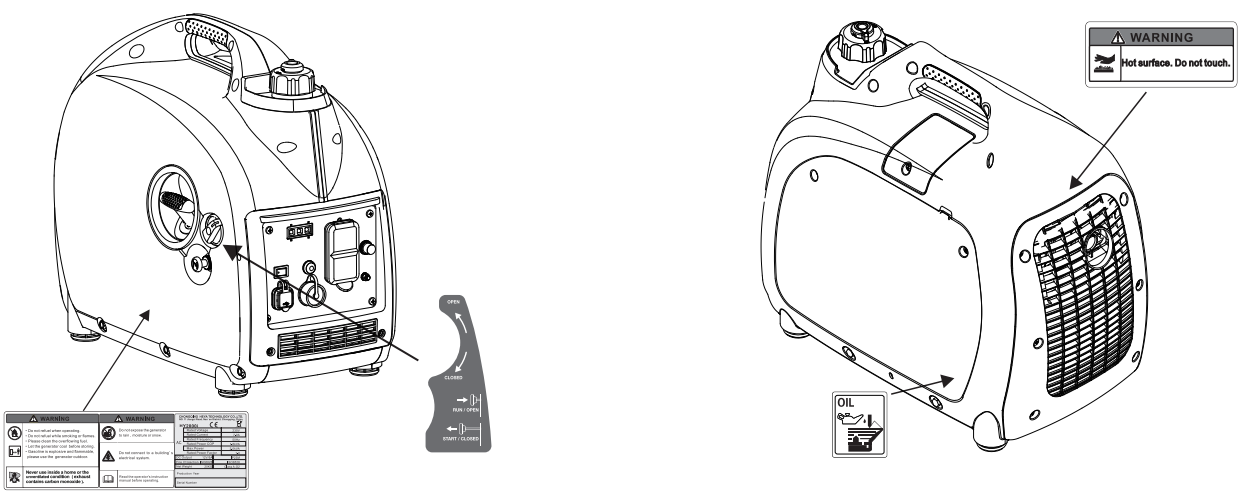


- Read and understand the user manual before using the generator.
 - The emission of engine contains poisonous carbon monoxide. Use the generator in the ventilated condition.
 - Do not touch the hot muffler, when the generator is running, or before cooling.
 - Gasoline is explosive and flammable in the specified conditions when refueling, the generator needs to be stopped and be kept cigarette and fire source away.
 - Do not connect to the building’s electrical system or other generator, in order to avoid the electric shocks and fires.
 - The running generator must keep one meter
- distance with constructions and other electrical appliances at least.
 - Place the generator on the leveled surface, in order to avoid overturning or spilling fuel.
 - Children and pets should be keep away the operation area.
 - Do not operate with wet hand.
 - Do not expose the generator to rain, moisture or snow.
 - Place the generator at least 1 m away from buildings or other equipments during operation.
 - The major repair work should be carried out only by professionally trained person.
 - Do not use the generator in underground working
 - Do not use the generator in potentially explosive atmospheres
 - Use personal protective equipment: glove, mask, earplugs, when you operate or maintain the generator.

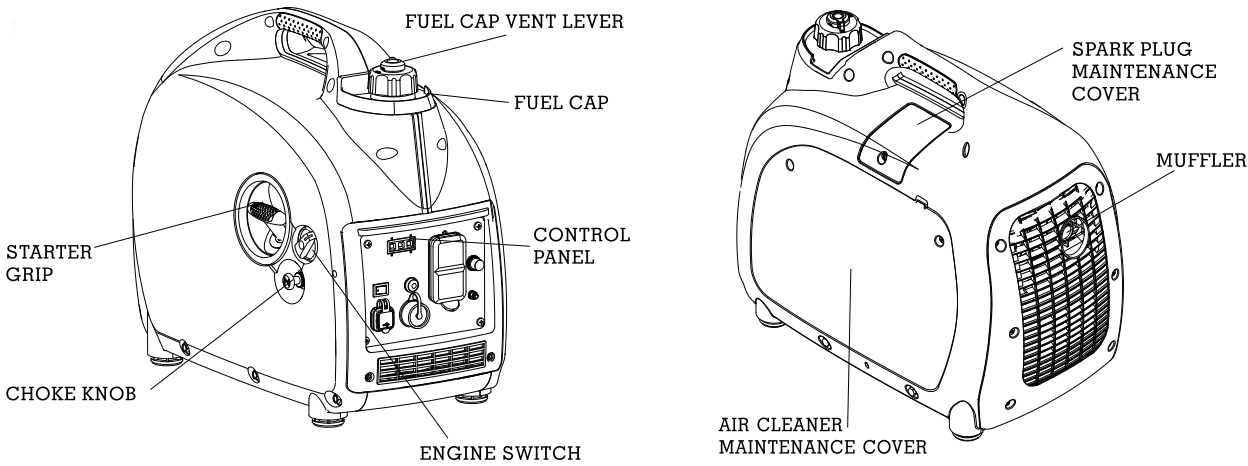
SAFETY LABEL:

! WARNING		! WARNING	
	<ul style="list-style-type: none">• Do not refuel when operating.• Do not refuel while smoking or flames.• Please clean the overflowing fuel.• Let the generator cool before storing.• Gasoline is explosive and flammable, please use the generator outdoor.		Do not expose the generator to rain , moisture or snow.
			Do not connect to a building' s electrical system.
	Exhaust gas is poisonous; do not operate in an unventilated area [Carbon monoxide (CO) danger]		Read the operator's instruction manual before operating.

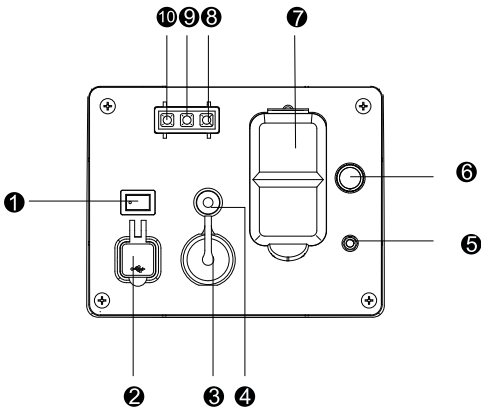
2. SAFETY LABLE LOCATIONS



3. COMPONENTS IDENTIFICATION



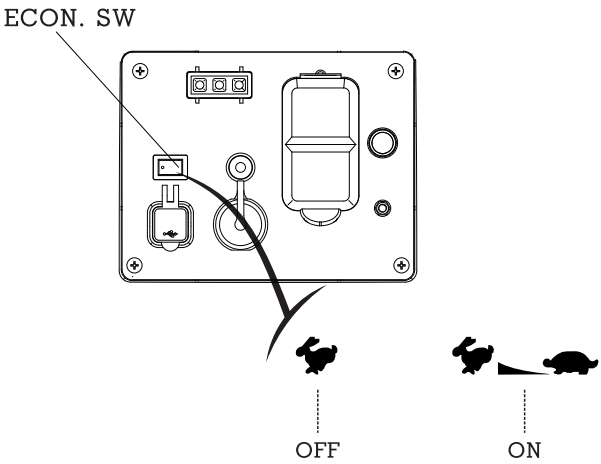
3.1) Control Panel



- 1 ECON. SW
- 2 USB OUTPUT
- 3 Parallel port
- 4 Reset
- 5 Ground Terminal
- 6 AC Breaker
- 7 AC Receptacle
- 8 Output Indicator Light(green)
- 9 Overload Indicator Light(red)
- 10 Oil Alert Indicator Light(red)

3.2) ECON. SW (Economy control switch):

- “ON”(🔌➡️)
- When the economy control switch is turned to “ON”(🔌➡️), the engine keeps running at idle state automatically when the electrical appliance is disconnected, and it will return to the proper speed with the requirement of electrical load.
 - The “ON”(🔌➡️) is recommended to minimize the fuel consumption.



NOTE

- When a high load electrical appliance is connected instantaneously, in order to reduce voltage change, turn the economy control switch to the “OFF”(🔌)position.
- In DC operation, turn the economy control switch to the “OFF”(🔌)position.
- Connect both AC load and DC load, turn the economy control switch to the “OFF”(🔌) position.

“OFF” (🔌)
When the economy control switch turns to the “OFF” (🔌) engine runs at high speed.

3.3) Reset

- Under the condition of protection, the overload indicator light(red) is on, the "RESET" button can recover the output of the generator, and unnecessary to restart engine overall.
- Press and hold the “RESET” button for one second, until the overload indicator light (red)

will be off, and output indicator light (green) will be on.

- Under the non-overloading condition, the "RESET" is supposed to be ineffective.

NOTE

- For protection condition, the output indicator light (green) is off, and the overload indicator light (red) is on.
- Every starting the engine the "RESET" button is available within 5 times. Otherwise, you need restart the engine.

4. PRE- OPERATION CHECK



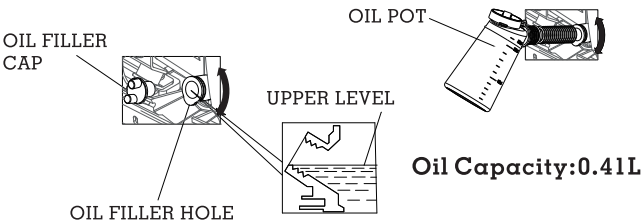
Be sure the generator is on the leveled surface and the generator is stopped.

4.1) Check Oil Level

Remove the oil filler cap, fill the specified amount of the recommended oil, and then tighten the oil filler cap.

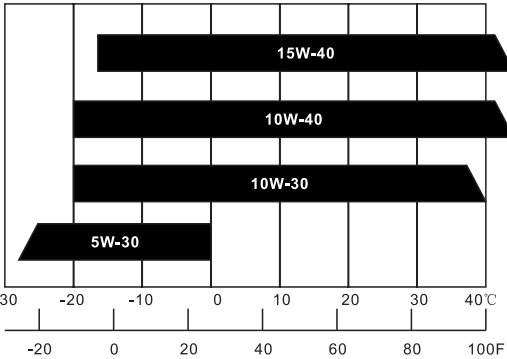
NOTE

- Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.



NOTE

- Using non-detergent or 2-stroke oil could shorten the engine’s working life.
- Using the high quality engine oil with strong detergents
- Using 4-stroke engine oil, certified to meet or exceed API standards: SG, SF, SAE stickiness rating:



NOTE

Carefully use and store the engine oil, avoid getting dirt or dust into the engine oil.

Mixing different kinds of engine oil is prohibited.

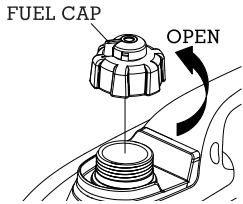
NOTE

- Before the engine oil reduces below the safety margin, low oil alert system will close the engine automatically. The oil alert indicator light (red) will be on.
- To avoid the inconvenience caused by unexpected stopping, it is still advisable to check the engine oil level regularly.
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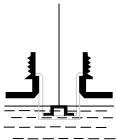
4.2) Check Fuel Level

Fuel recommend: use unleaded gasoline (Research Octane Number of 91 or higher, Pump Octane Number of 86 or higher)
Never use stale or contaminated gasoline or an oil/gasoline mixture,
Avoid getting dirt or water into the fuel tank.

Do not use a mixture gasoline containing ethanol or methanol; otherwise, it will seriously damage the engine.



UPPER LIMIT MARK



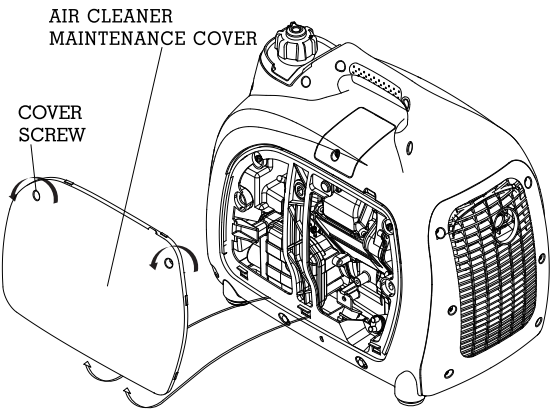
Fuel Capacity: 3.8L



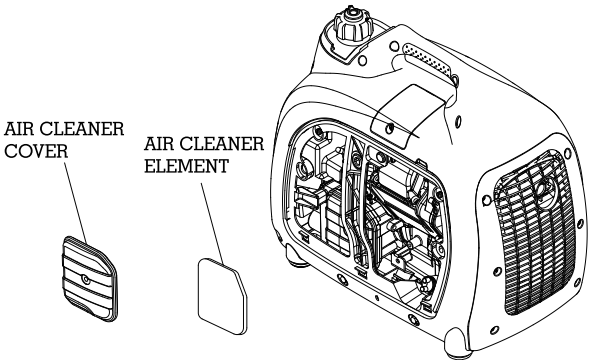
- Gasoline is extremely explosive and flammable.
- Around the refueling area and fuel storage area, prohibit smoking and firing.
- Do not overfill the fuel tank (no fuel above the red upper limit mark). After refueling, make sure the fuel cap is closed properly and securely.
- Do not make fuel spill from fuel tank. (No residual fuel around the neck of tank, before starting engine)
- Avoid contacting with skin or breathing the fuel vapor.
- KEEP OUT OF REACH OF CHILDREN.

4.3)Check Air Cleaner

Check the air cleaner element to be sure it is clean and in good condition.
a.Loosen two screws of the air cleaner maintenance cover, and remove the cover.



b.Loosen the air cleaner maintenance cover screw, and remove the cover.



c.Check the element, clean or replace it, if necessary.

Note

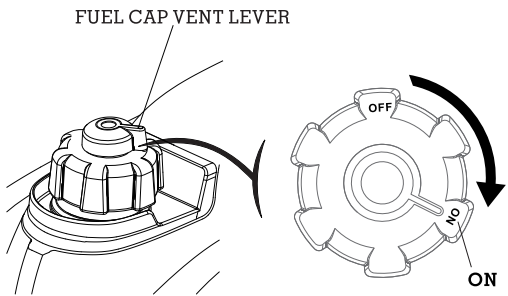
- Do not run engine without air Cleaner element, otherwise that makes engine abrasion.

5. STARTING THE ENGINE

NOTE

- Before starting engine, disconnect load with AC receptacle.

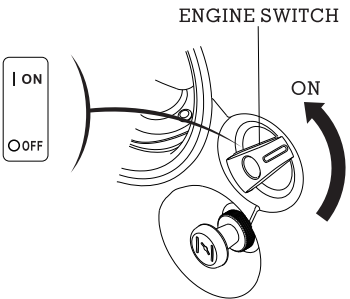
5.1) Turn the fuel cap vent lever fully to the "ON" position.



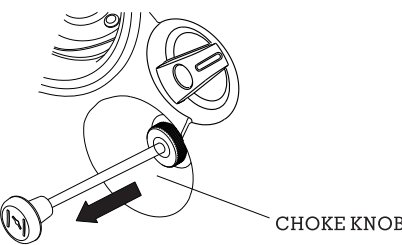
NOTE

- When transporting and storing generator, turn the fuel cap vent lever to the "OFF" position.

5.2) Turn engine switch to the "ON" position.



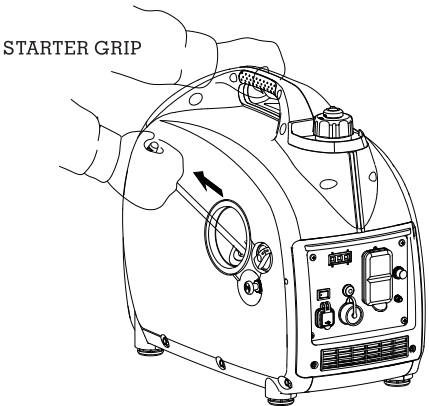
5.3) Pull the choke knob fully out.



NOTE

- Do not pull out the choke knob, when engine is hot or ambient temperature is high.

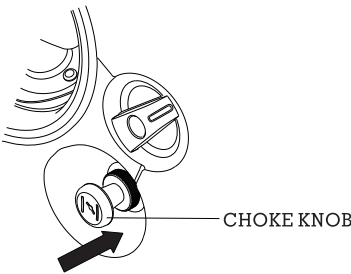
5.4) Pull the starter grip lightly until you feel resistance, then pull quickly toward arrow as shown below.



NOTE

- Return the starter grip slowly by hand. Do not make the starter grip spring back quickly.

5.5) When the engine warms up, push the choke knob to the original position.



NOTE

- If the generator stops and can not restart, check the oil level firstly.

Carburetor Modification for High Altitude Operation

At high altitude, the standard carburetor air-fuel mixture will be too rich. Performance will decrease, and fuel consumption will increase. A very rich mixture will also foul the spark plug and cause hard starting.

If the generator operates at high altitude, change the main-nozzle or adjust the idling-

screw of carburetor.

If the generator always operates at altitude above 1,000 meters, contact with an authorized dealer servicing to modify the carburetor.

Generator output power should be modified according to the altitude and ambient temperature. The correction factor refers to 13–2.

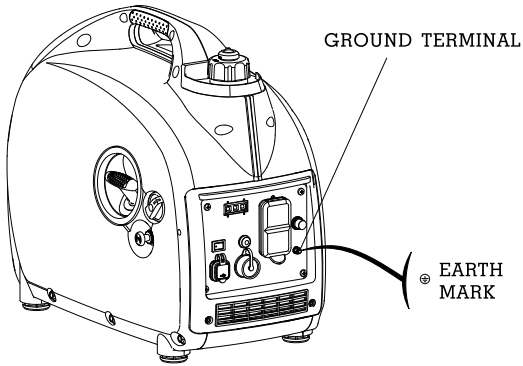
⚠ WARNING

- If the carburetor has been modified for high altitude operation, the air-fuel mixture will be too lean for low altitude use. Operation at low altitude may cause the engine to overheat and result in serious engine damage. The carburetor needs return to original specifications.

6. GENERATOR USE

⚠ WARNING

- Be sure to ground the generator when the connected electrical appliance is grounded.
- Do not connect to the building’s electrical system, in order to avoid the electric shocks and fires.



⚠ WARNING

- For continuous operation, do not exceed the rated out-put power of generator.
- Do not connect the generator to household circuit. This could cause damage to the generator or to electrical appliances in the house.
- Do not make parallel connection with other generators.
- Do not connect an extension to the exhaust pipe.
- When an extension cable is required, be sure to use a tough rubber sheathed flexible cable (according to IEC245 or equivalent standards). The maxmin length of the extension cable: 60m for cable of 1.5mm²; 100m for cable of 2.5mm².
- Keep away from other electric cables or wires. Such as: commercial power supply lines.

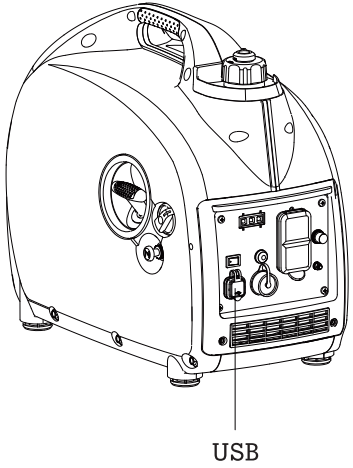
NOTE

- the AC power is in use. If use both at same time, be sure not to exceed the total power for AC. (AC:1.6kVA,)

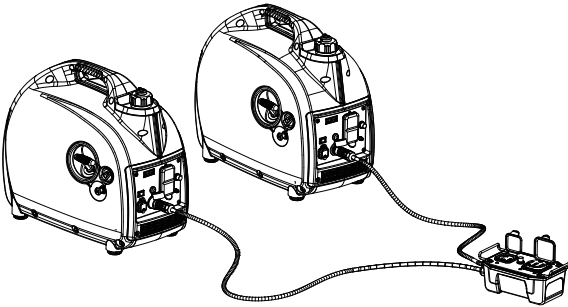
- Most of motor appliances require more than their rated wattage, when starting.

6.1) USB Ports

- A total of 3.1A is available at 5.0V. A single port can draw the full 3.1A or it will be distributed as needed. For example,a 1A device will only draw 1A.

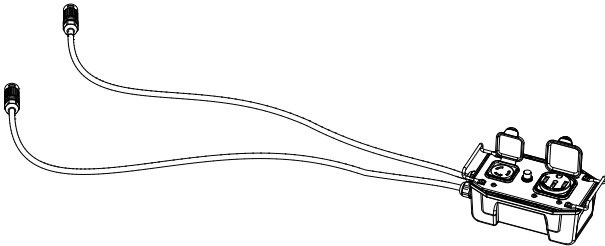


6.2 Running generators in parallel



- this socket allows two approved JD North America inverter generators to be connected for additional power. the parallel cable is an optional accessory, please contact your dealer, visit us on www.jdna.com or call 888-896-6881 to purchase.

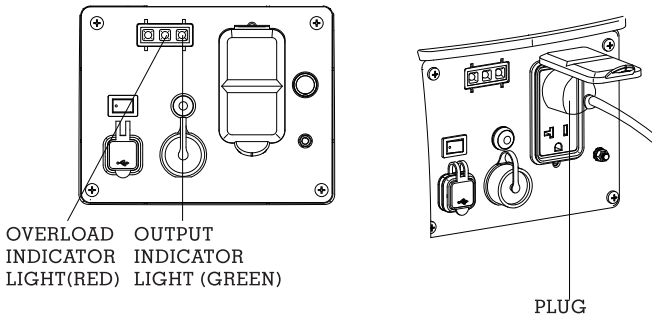
- Only connect in parallel with an JD North APG2000is or APG2000is with the approved cable (sold separately). Attempting to connect other brands or models will void your warranty and could cause boily injury.



6.3) AC applications

- 6.3.1) Start engine and make sure the output indicator light (green) is on.
- 6.3.2) Confirm all electrical appliances are switched off, and connect the appliance plugs to the generator receptacle.

- NOTE**
- To obtain the best working and longest working life of the generator, a new generator is supposed to run for 20 hours at 50% rated load.



- NOTE**
- Confirm all electrical appliances are in good working condition before connecting them to the generator. If an electrical appliance becomes abnormal, sluggish, or stops suddenly, shut off the generator engine immediately, and disconnect the appliance.

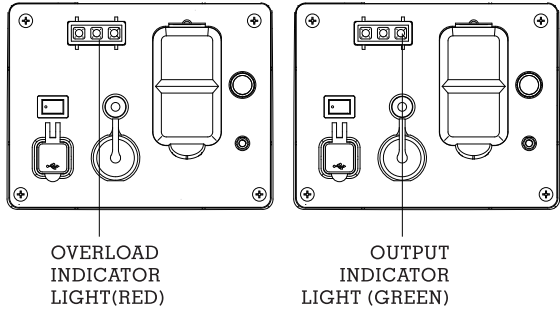
6.4) Output and Overload Indicator

In normal operating, output indicator light (green) will remain on.

If the generator is overload (over 1.6 kVA), or the connected appliance is short-circuit, the output indicator light (green) is off, and overload

indicator light (red) is on. The AC power will be switched off, but engine is still running.

If the overload indicator light (red) is on, disconnect the electrical appliances firstly, press and hold the reset button 1s. If the overload indicator light (red) is OFF and the output indicator light (green) is on, reconnect the electrical appliances. Otherwise stop the engine and check the generator.



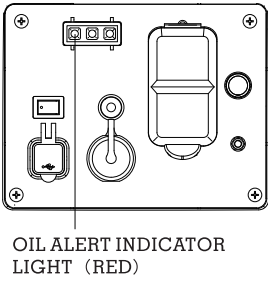
NOTE

■ When you start the engine, it is normal that both of the overload indicator light (red) and output indicator light (green) are ON simultaneously. Overload indicator light will be OFF after 5 seconds, otherwise contact with your dealer.

6.5) Oil alert system

The oil alert system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase falls below a safe limit, the oil alert system will automatically shut down the engine (the engine switch remains in the "ON" position).

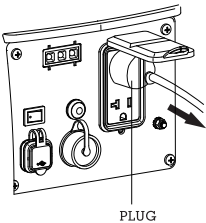
If the oil alert system shuts down the engine, the oil alert indicator light (red) will be on. Check the engine oil level.



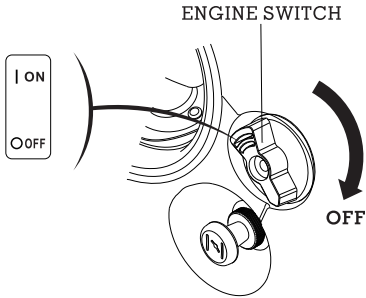
7. STOPPING THE ENGINE

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

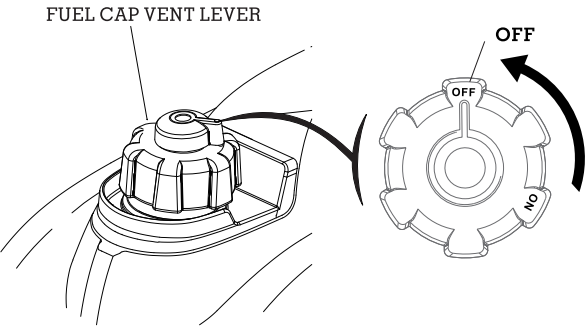
7.1) Switch off the connected electrical appliances, and pull out their plugs.



7.2) Turn the engine switch to the "OFF" position.



7.3) Turn the fuel cap vent lever to the "OFF" position.



NOTE

■ Be sure the fuel cap vent lever and engine switch locate the "OFF" position, when stopping, transporting and storing the generator.

8. MAINTENANCE

The purpose of the maintenance and adjustment schedule is to keep the generator in the beset operating condition.



Stop the engine before performing any maintenance. If the engine must run, be sure the area is well ventilated. The exhaust contains poisonous carbon monoxide gas.

Use genuine JD North America or equivalent quality components to replace the wear components.

Maintenance Schedule

Regular Service Period (3)		Each use	First month or 10 hrs.	Every 3 months or 50 hrs.	Every 6 months or 100 hrs.	Every 2 years or 300 hrs.
Item						
Engine oil	Check level	⊙				
	Change		⊙		⊙	
Air cleaner	Check	⊙				
	Clean			⊙+(1)		
Spark plug	Check-adjust				⊙	

Spark plug	Replace					⊙
Spark arrester					⊙	
Valve Clearance	Check-adjust					⊙+(2)
Combustion Chamber	Clean	After every 300 hrs(2)				
Fuel tank& filter	Clean	Every year(2)				
Fuel line	Check	Every 2 years (Replace if necessary)(2)				

NOTE

- (1) Service more frequently when used in dusty areas.
- (2) These items should be serviced by your servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to HEYA manual for service procedures.
- (3) For commercial use, long hours of operation to determine proper maintenance intervals.

8.1) Change Oil

Drain the oil rapidly and completely while the engine is still warm.

8.1.1) Loosen the air cleaner maintenance cover screw, and remove the cover.

8.1.2) Remove the oil filler cap.

8.1.3) Drain dirty oil into a container thoroughly.

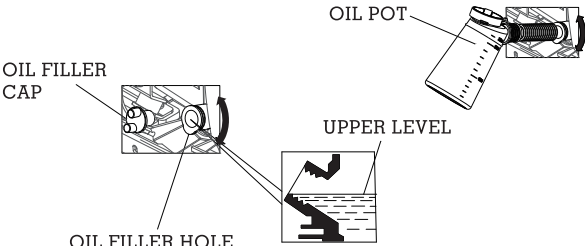
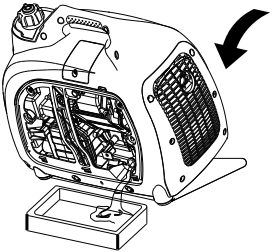
8.1.4) Refill the recommended oil and check the oil level.

8.1.5) Reinstall the oil filler cap.

8.1.6) Reinstall the maintenance cover and tighten the cover screws.

AIR CLEANER MAINTENANCE COVER

COVER SCREW



Oil capacity:0.41L

After oil change, wash your hands with soap.

NOTE

For conforming to the environment requirement, the used oil will be put into a sealed container and then be transported to the service station for recycler. Do not throw it into the trash or pour it on the ground.

8.2) Air Cleaner Service

A dirty air cleaner will restrict air flow into the carburetor.Clean and maintain the air cleaner regularly, especially in the extremely dusty areas.

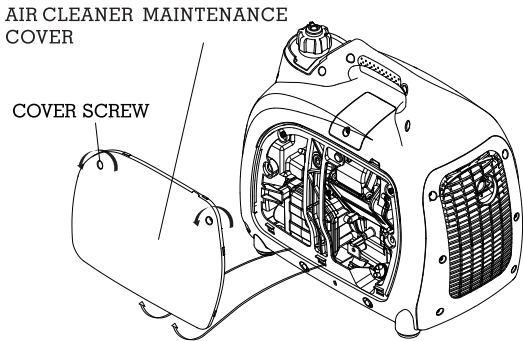
⚠ WARNING

Do not use gasoline or low ignition point solvents for cleaning. They are flammable and explosive under certain conditions.

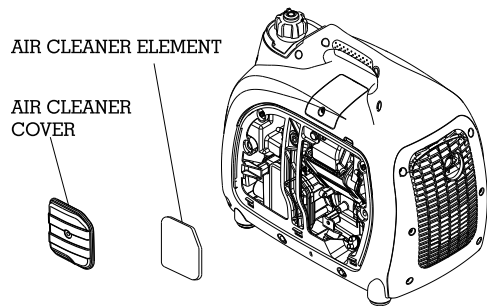
NOTE

Never run the generator without air cleaner, otherwise that result in engine abrasion rapidly.

8.2.1) Loosen two screws of the air cleaner maintenance cover, and remove the cover.

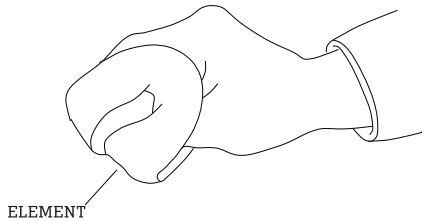


8.2.2) Loosen the air cleaner maintenance cover screw and remove the cover.



8.2.3) Take out the air cleaner element, and clean it with non- flammable or high flash point solvent, then dry it.

8.2.4) Soak the air cleaner element in the clean engine oil, and squeeze out the redundant oil.



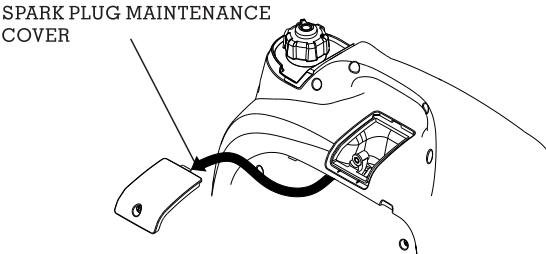
8.2.5)Reinstall the air cleaner element and cover.
8.2.6)Reinstall the maintenance cover, and tighten the screws.

8.3) Spark Plug Service

Recommendation spark plug: BPR6HS

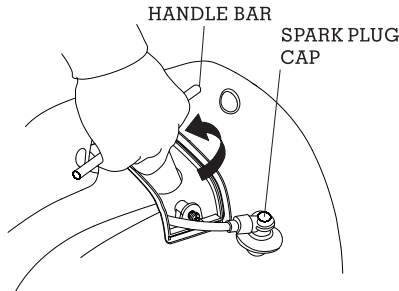
Check the spark plug gap and clean the carbon deposition at the bottom of the spark plug.

8.3.1) Remove the spark plug maintenance cover.



8.3.2) Take off the spark plug cap.

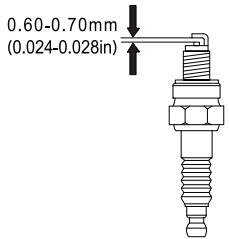
8.3.3) Clean the carbon deposition at the bottom of the spark plug.



8.3.4) Take off the spark plug with the spark plug spanner.

8.3.5) Visual inspection the spark plug. Change a new one if its insulator cracked or chipped.

Clean it with a wire brush if the spark plug is reused.



- 8.3.6) Measure the spark plug gap with a feeler gauge. The normal value:0.6-0.7mm(0.024-0.028in). Adjust the gap by bend one of the electrode carefully.
- 8.3.7) Reinstall the spark plug carefully, by hand, to avoid cross-threading. A new spark plug should be tightened 1/2 turn with a spanner. A used Spark plug should be tightened 1/8 to 1/4 turn with spanner.
- 8.3.8) Reinstall the spark plug cap
- 8.3.9) Reinstall the spark plug maintenance cover.

NOTE

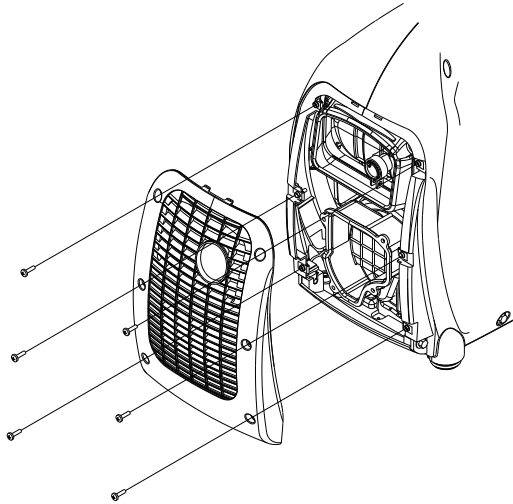
- The spark plug must be securely tightened. Tightening in wrong way will cause spark plug hot, even damage the engine.
- Never use a spark plug with an improper heat range.

8.4) Spark Arrester Maintenance

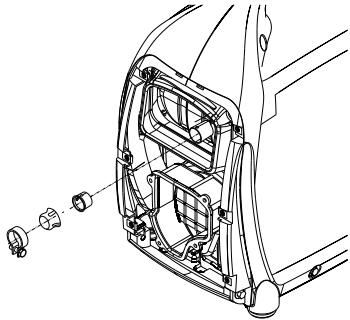


The spark arrester must be maintained every 100h service.

- 8.4.1)Remove the six screws, and remove the muffler guard.



- 8.4.2)Take off the spark arrester from the muffler after the engine cool down.



- 8.4.3)Use a brush to remove carbon deposits from the spark arrester . If the spark arrester is wear, replace it.



- 8.4.4)Reinstall the spark arrester and muffler guard.

9.TRANSPORTING/STORING

Avoid fuel spilling during transporting or temporary storing, both the engine switch and the fuel cap vent lever should turn to “OFF” position, and the generator should place in normal operating position.

⚠ WARNING

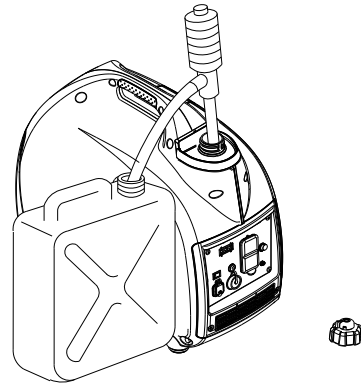
Transporting Generator:

- Do not overfill the fuel tank. (No residual fuel on the neck of tank)
- Do not use the generator on the transport vehicle. The generator should be used under a good ventilated condition.
- Avoid exposing directly in the sunshine when the generator place in the enclosed transport vehicle for a long time. The high temperature inside the vehicle could cause fuel to vaporize resulting in a possible explosion.
- Drain off the fuel, when the generator is transported on rough road.

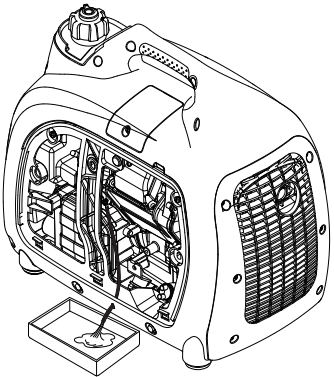
Storing for a long period:
9.1) Make sure the storage area without excessive humidity and dust.
9.2) Drain off the fuel.

⚠ WARNING

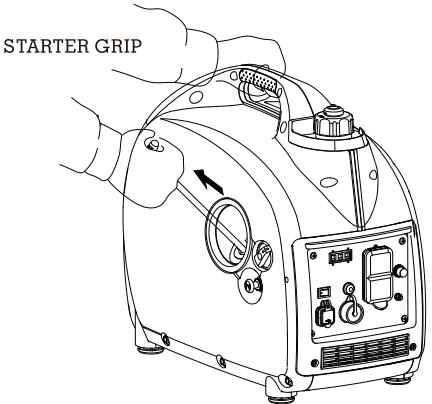
- Keep away from smoking, flames and spark, gasoline is explosive and flammable in the specified condition.
- α. Drain off the gasoline in the fuel tank, storing into the suitable container.



- b. Turn the engine switch to “ON” position, and loosen the carburetor drain screw to discharge gasoline inside of carburetor.



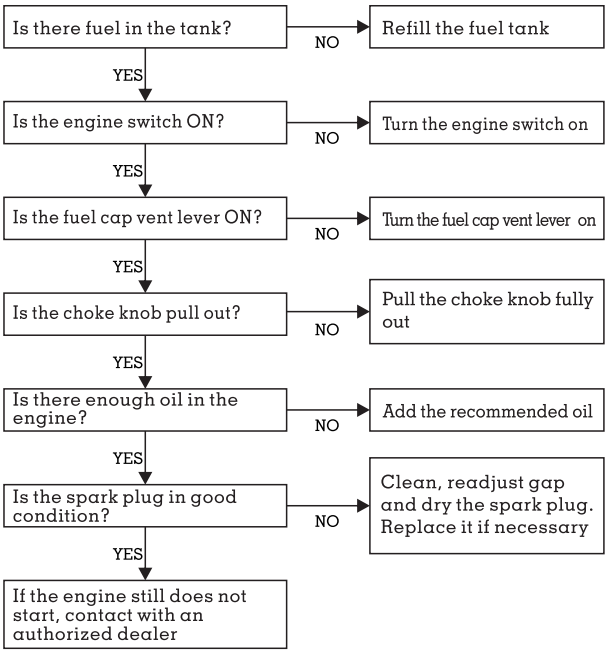
- c. Take off the spark plug cap, pull the starter grip three or four times, discharge the gasoline from the fuel lines.
- d. Turn the engine switch to “OFF” position, and tighten the drain screw of carburetor.
- e. Reinstall the spark plug cap.



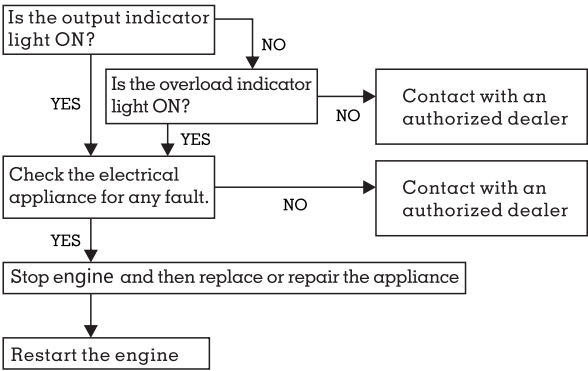
- 9.3) Change the engine oil.
- 9.4) Remove the spark plug, and pour a tablespoon of clean engine oil(10~20ml)into the cylinder. Revolve the engine several times to distribute the oil,and reinstall the spark plug.
- 9.5) Pull the starter grip slowly until feel resistance. At this point, the piston is coming up on its compression stroke and both the intake and exhaust valves are closed. In this position, it helps to protect the engine from internal corrosion.

10.TROUBLESHOOTING

When the engine can not be started:



Appliance does not operate :



11. TECHNICAL SPECIFICATIONS

	Specifications	Parameters
ENGINE	Model	DJ148F
	Type	4-stroke, overhead valve, single cylinder, forced-air cooling
	Engine Displacement	79.7cm ³
	Bore*Stroke	48.6mm*43.0mm
	Compression Ratio	8.7:1
	Rated Speed	2.3/4500min ⁻¹
	Ignition System	Full transistor
	Start System	Recoil starter
	Fuel Type	Gasoline without lead
	Oil Capacity	0.41L
GENERATOR	Oil Model	SE 15W-30
	Model	APG2000is
	Rated Frequency	60Hz
	Rated Voltage	120V
	Rated Current	13.3A
	Rated Speed	4500min ⁻¹
	Rated Output Power	1.6kVA
	Max. Output Power	2.0kVA

OTHER SPECIFICATIONS	USB	5V 1A/2.1A
	Fuel Tank Volume	3.8L
	Continuous Running Time	5.0h
	Fuel Consumption	550g/kW.h
	Working Ambient Temperature	-20℃~40℃
	Max. Altitude	1000m
	* Noise L _{WA}	90dB/4m
	* * Noise L _{pA}	54~59dB/7m
	Dimensions (L*W*H)	510mm*280mm*455mm
	Net Weight	20kg

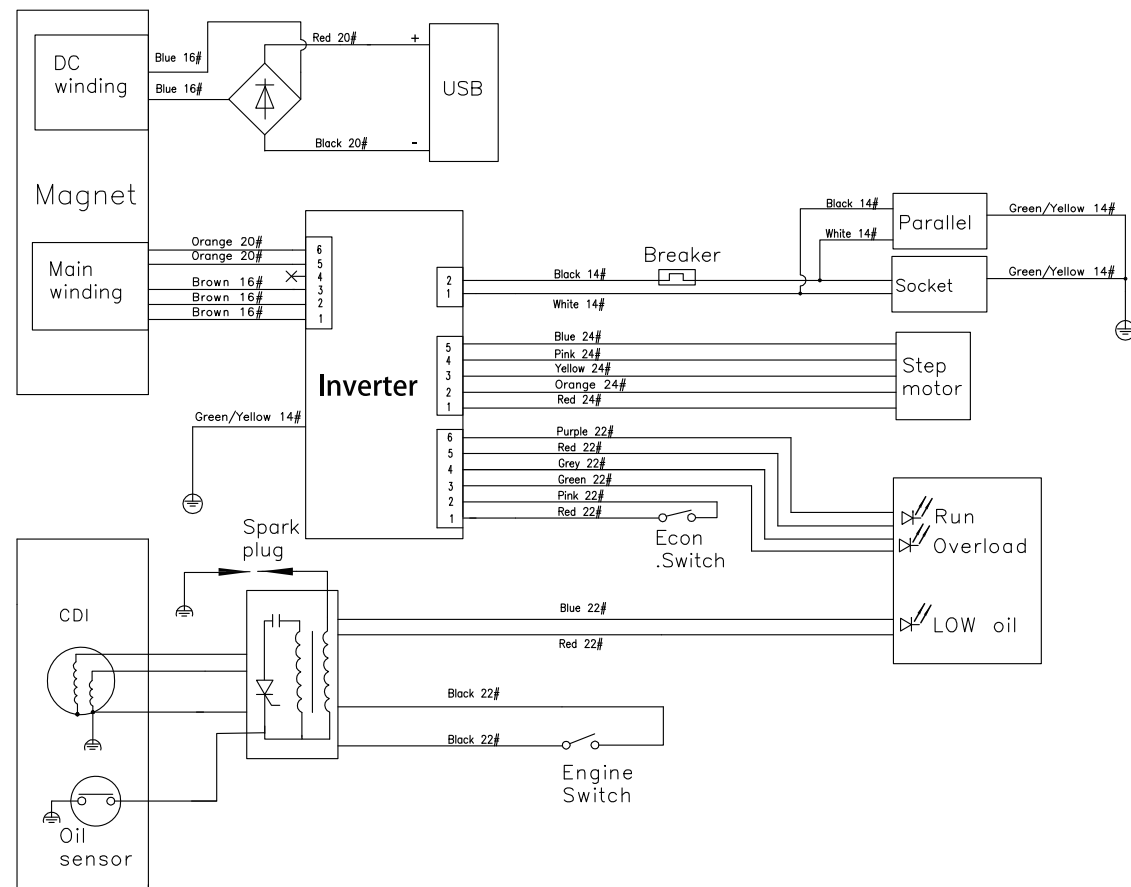
Noise level is measured when the ECON.SW is turned to " ON "(🔊🔊)

* : L_{WA} shows the guaranteed sound power tested by 2000/14/EC.

* * : The noise level in "dB/7m" is the arithmetic mean value of sound press level (L_{pA}) in four directions measured 7 meters away from the generator.

The noise level may vary in different environments.

12. WIRING DIAGRAMS



13. CONSUMER INFORMATION

Consumer Service Information

Service dealers are trained professionally. They should be able to answer any questions you have. If the dealer does not solve your problems, please discuss them with the manager of the dealer. Most of your problems are solved in this way.

If you are dissatisfied with the decision of the manager of the dealer, contact with the Customer Relations Department of JD North America Technology Co., Ltd.

You can Email or call:

**HAVE QUESTIONS OR NEED SERVICE
DO NOT RETURN TO STORE!
888.896.6881**

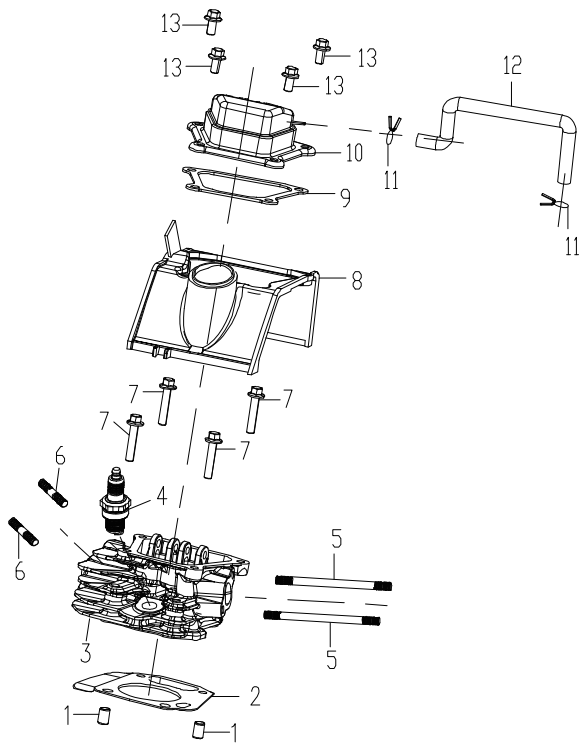


www.jdna.com

When you email or call, please give us the information:

- Model and serial number
- Date of purchase
- Detailed description of the problems
- Dealer contact information and yours: name, address, and telephone number

PARTS LISTING

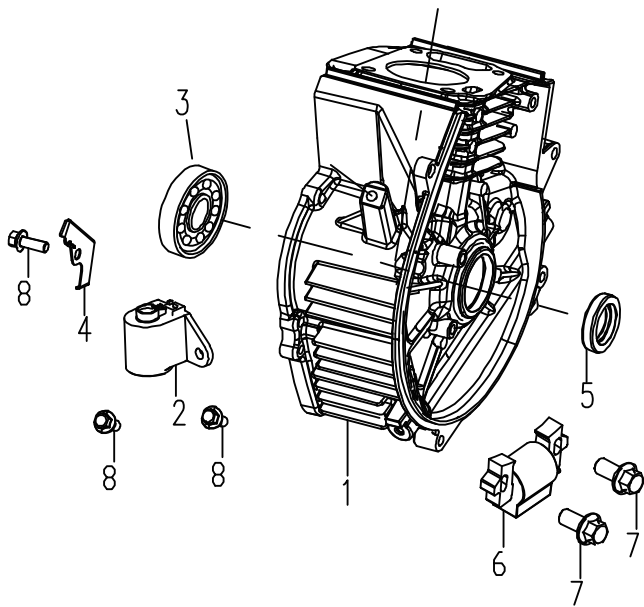


PART NO PART NAME PART NO

Cylinder head assembly			
A			
NO	APA Part No	Description	Factory Part No.
1	APG2000is-A-01-HY	crankcase,pin,dowel	70400000401
2	APG2000is-A-02-HY	gasket,cylinder head	92037000200
3	APG2000is-A-03-HY	cylinder head	92035001100
4	APG2000is-A-04-HY	spark pulg m14X12	92006000400
5	APG2000is-A-05-HY	bolt,stud	70100002400
6	APG2000is-A-06-HY	bolt,stud	70100007400
7	APG2000is-A-07-HY	bolt	70100007500
8	APG2000is-A-08-HY	shroud	92033000200
9	APG2000is-A-09-HY	packing,headcover	92034000100
10	APG2000is-A-10-HY	cover cimp,cylinder head	92035002200
11	APG2000is-A-11-HY	clip,breather tube	61015001600
12	APG2000is-A-12-HY	tube,breather	92034000300
13	APG2000is-A-13-HY	bolt	70100006000

PART NO PART NAME PART NO

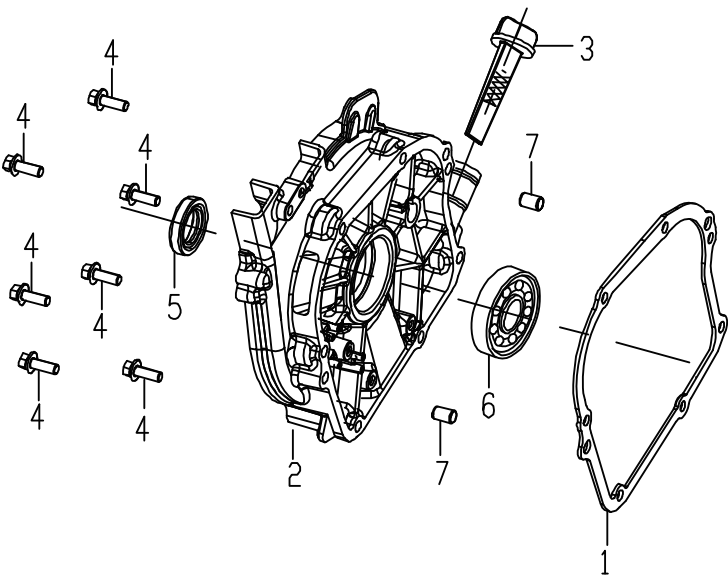
PART NO PART NAME PART NO



Engine block assembly

B

NO	APA Part No	Description	Factory Part No.
1	APG2000is-B-01-HY	crankcase	92035000100
2	APG2000is-B-02-HY	switch assembly,oil level	92036000100
3	APG2000is-B-03-HY	ball bearing	70900000100
4	APG2000is-B-04-HY	line pressing block	92035000200
5	APG2000is-B-05-HY	oil seal	71000000100
6	APG2000is-B-06-HY	magneto ignition	92036000200
7	APG2000is-B-07-HY	bolt	70100007300
8	APG2000is-A-13-HY	bolt	70100006000



Crankcase cover assembly

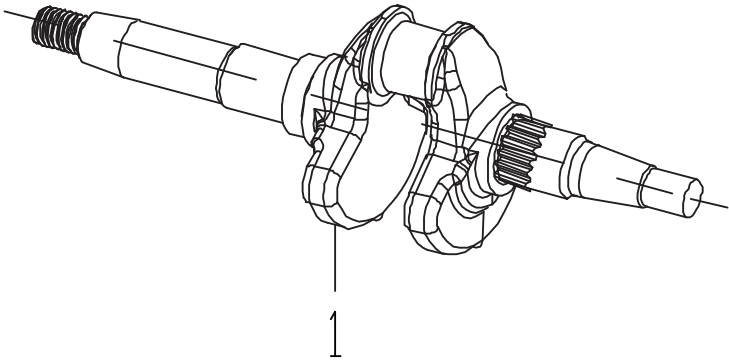
C

NO	APA Part No	Description	Factory Part No.
1	APG2000is-C-01-HY	Gasket,mould assembling	92037000100
2	APG2000is-C-02-HY	crankcase cover assembly	92035001000
3	APG2000is-C-03-HY	Dipstick	92033000100
4	APG2000is-C-04-HY	bolt	70100007600
5	APG2000is-B-05-HY	Oil seal	71000000100
6	APG2000is-B-03-HY	Ball bearing	70900000100
7	APG2000is-A-03-HY	Crankcase,pin dowel	70400000401

Crankshaft assembly

D

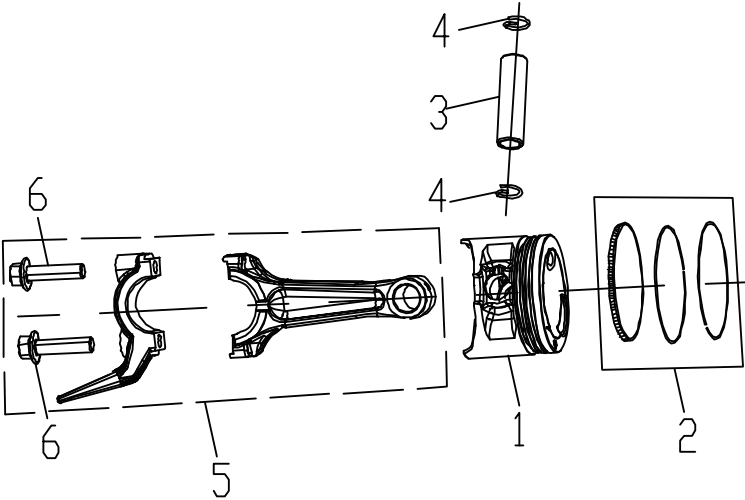
NO	APA Part No	Description	Factory Part No.
1	APG2000is-D-01-HY	Crankshaft	92035000300

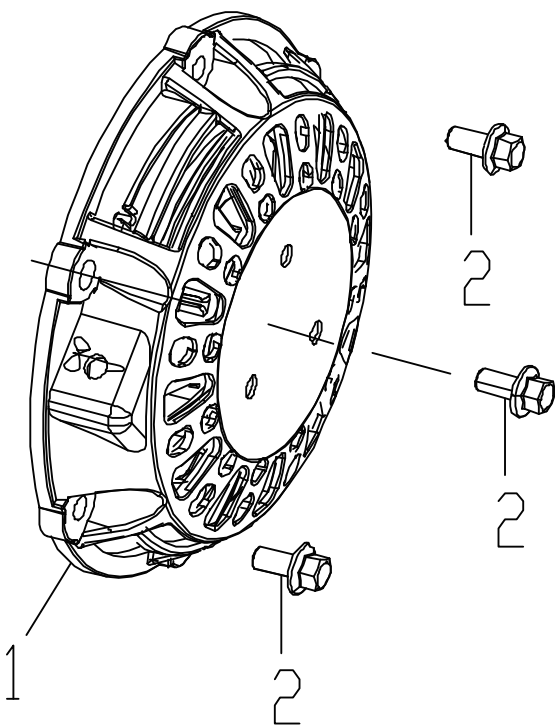


Piston&rings rod assembly

E

NO	APA Part No	Description	Factory Part No.
1	APG2000is-E-01-HY	Piston	92035000300
2	APG2000is-E-02-HY	Scraper ring set,piston	92035000500
3	APG2000is-E-03-HY	Pin,piston	92035000600
4	APG2000is-E-04-HY	Clip,piston	92005002000
5	APG2000is-E-05-HY	Rod assembly.,connecting	92035000700
6	APG2000is-E-06-HY	Bolt	70100006400

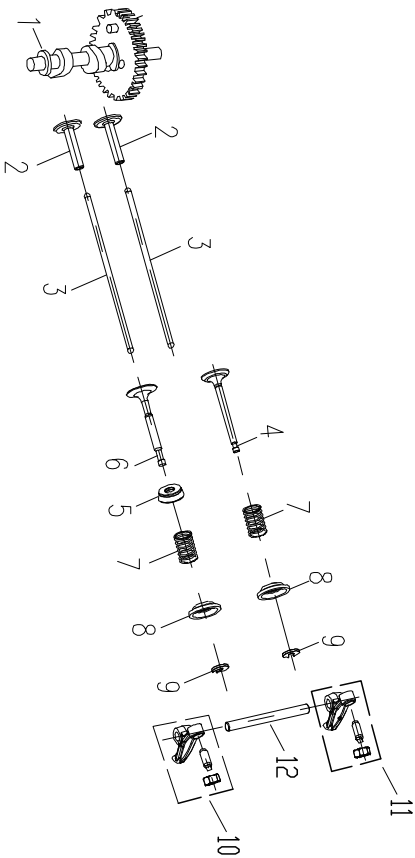




Recoil starter assembly

F

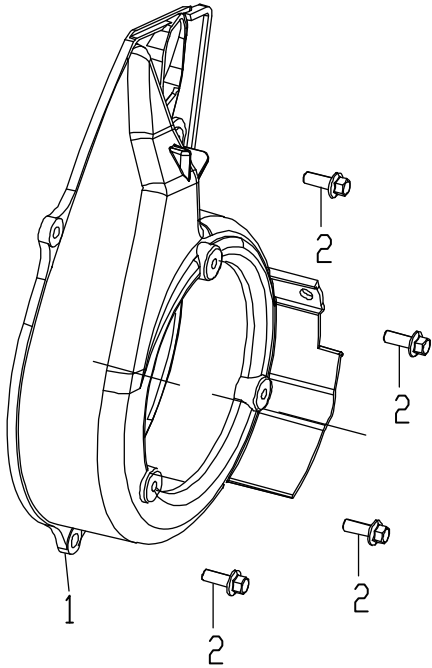
NO	APA Part No	Description	Factory Part No.
1	APG2000is-F-01-HY	Recoil starter	92033000400
2	APG2000is-B-07-HY	Bolt	70100007300



Valves assembly

G

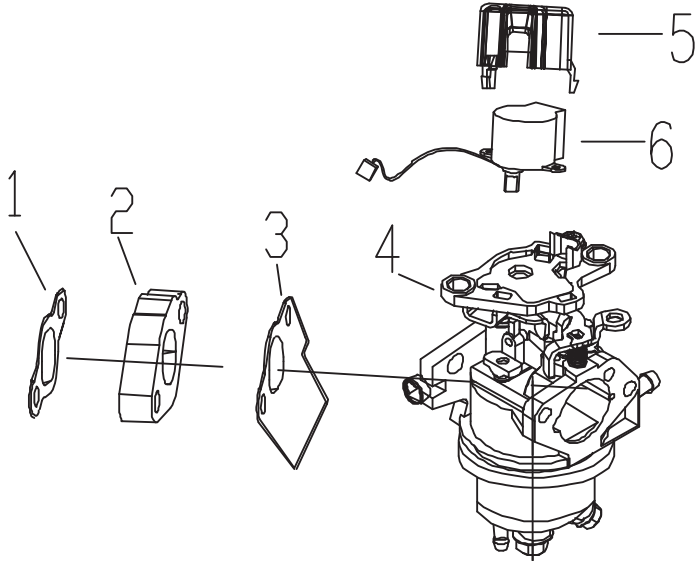
NO	APA Part No	Description	Factory Part No.
1	APG2000is-G-01-HY	Camshaft assembly	92035000900
2	APG2000is-G-02-HY	Lifter,valve	92035000800
3	APG2000is-G-03-HY	Rod,push	92035002100
4	APG2000is-G-04-HY	Valve exhaust	92035001700
5	APG2000is-G-05-HY	Inlet valve spring seat	92035001500
6	APG2000is-G-06-HY	Valve,in	92035001600
7	APG2000is-G-07-HY	Spring,valve	92035001800
8	APG2000is-G-08-HY	Seat,valve spring,in	92035001900
9	APG2000is-G-09-HY	Valve lock clamp	92035002000
10	APG2000is-G-10-HY	Inlet valve rocker assy	92035001200
11	APG2000is-G-11-HY	Exhaust valve rocker assy	92035001300
12	APG2000is-G-12-HY	Rockshaft	92035001400



Recoil starter cover assembly

H

NO	APA Part No	Description	Factory Part No.
1	APG2000is-H-01-HY	Recoil starter cover	92033000300
2	APG2000is-B-07-HY	Bolt	70100007300



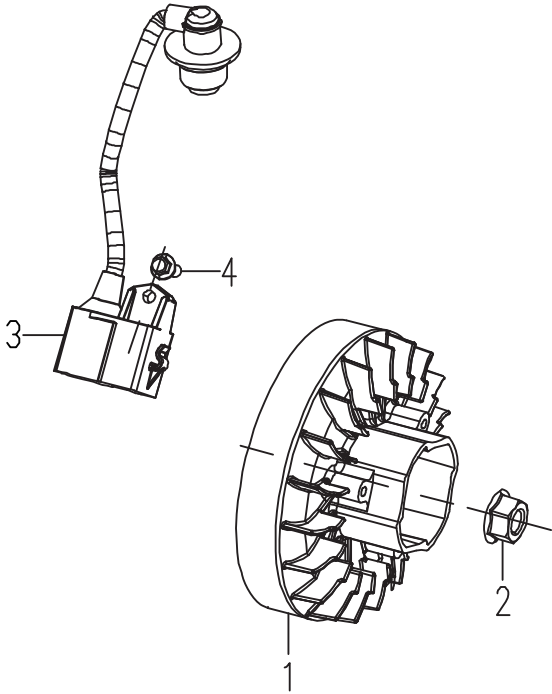
Carburator assembly

I

NO	APA Part No	Description	Factory Part No.
1	APG2000is-I-01-HY	Gasket,connection block	92037000300
2	APG2000is-I-02-HY	Thermal insulation,carburator	92033000500
3	APG2000is-I-03-HY	Paper washer,carburator	92037000400
4	APG2000is-I-04-HY	Carburator assembly	92035002400
5	APG2000is-I-05-HY	Stepper motor prctective cover	92033000900
6	APG2000is-I-07-HY	Stepper motor	91006000100

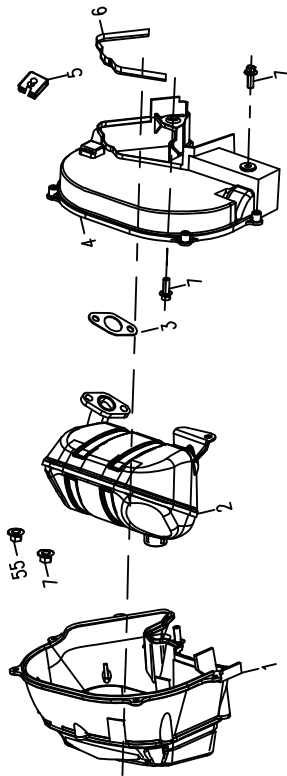
Flywheel assemblyJ

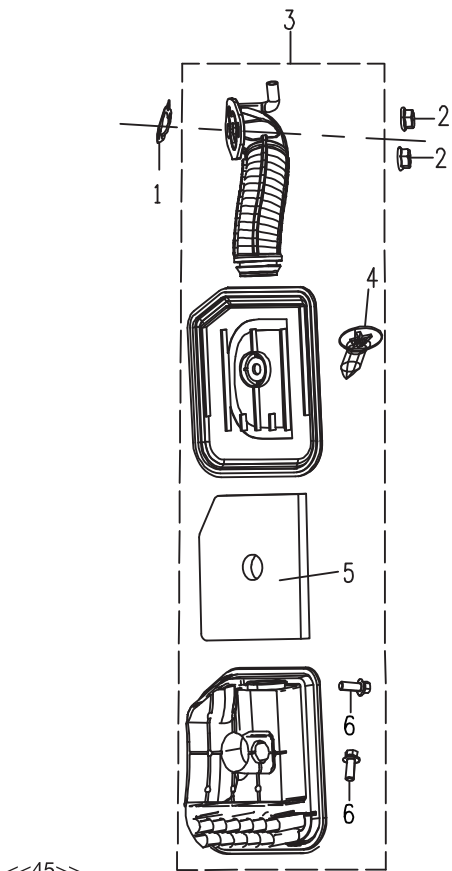
NO	APA Part No	Description	Factory Part No.
1	APG2000is-J-01-HY	Flywheel	92035002300
2	APG2000is-J-02-HY	Nut,Flywheel	70200000400
3	APG2000is-J-03-HY	Ignition coil	80880000030
4	APG2000is-B-07-HY	Bolt	70100007300



Muffler assemblyK

NO	APA Part No	Description	Factory Part No.
1	APG2000is-K-01-HY	Muffler cover 1	92033001000
2	APG2000is-K-02-HY	Muffler assembly	92035002700
3	APG2000is-K-03-HY	Gasket,exhaust	92037000600
4	APG2000is-K-04-HY	Muffler cover 2	92033000800
5	APG2000is-K-05-HY	Clip,muffler cover	92035002600
6	APG2000is-K-06-HY	Stripper rubber	92034000200
7	APG2000is-B-07-HY	Bolt	70100007300
8	APG2000is-L-02-HY	Nut	70200002100

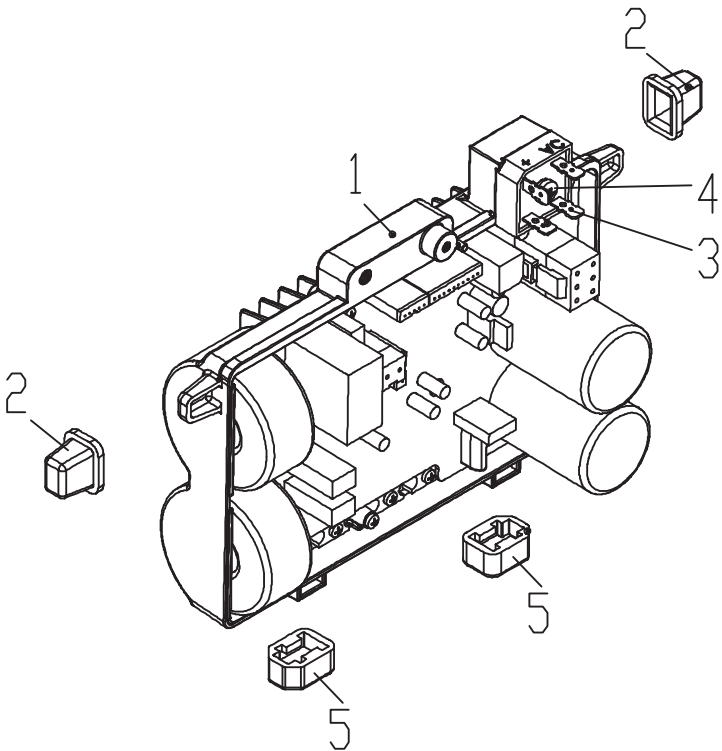




Air filter element

M

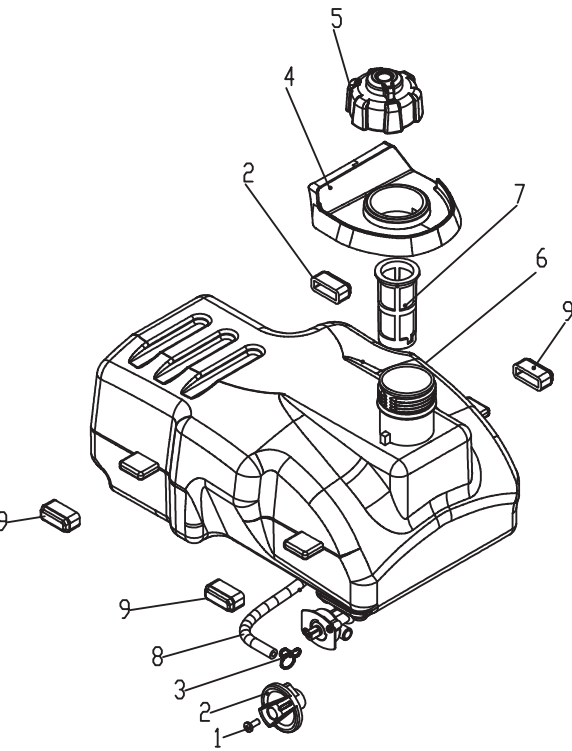
NO	APA Part No	Description	Factory Part No.
1	APG2000is-M-01-HY	Gasket,air cleaner	92037000500
2	APG2000is-M-02-HY	Nut	70200002100
3	APG2000is-M-03-HY	Air cleaner assembly	92033000700
4	APG2000is-M-04-HY	Cross-head screw	70300001600
5	APG2000is-M-05-HY	Air filter element	92007000900
6	APG2000is-B-07-HY	Bolt	70100007300



Inverter assembly

N

NO	APA Part No	Description	Factory Part No.
1	APG2000is-N-01-HY	inverter assembly	62252000200
2	APG2000is-N-02-HY	left rubber feet,inverter	61014001700
3	APG2000is-N-03-HY	rectifier assy	61016001700
4	APG2000is-N-04-HY	screw,cross pan head	70300002000
5	APG2000is-N-05-HY	rubber feet,inverter	61014001600

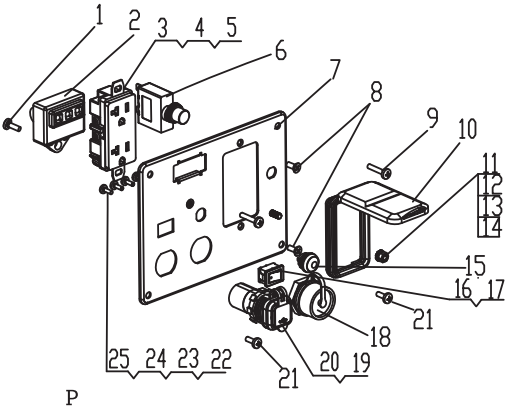


Fuel tank assembly

NO	APA Part No	Description	Factory Part No.
1	APG2000is-O-01-HY	screw,cross pan head	70300000400
2	APG2000is-O-02-HY	iever,fuel switch	62053000800
3	APG2000is-O-03-HY	clip,spring	62015001000
4	APG2000is-O-04-HY	duct,fuel tank	62054000100
5	APG2000is-O-05-HY	fuel tank cover assy	61033000300
6	APG2000is-O-06-HY	fuel tank	62063000300
7	APG2000is-O-07-HY	filter,fuel	61013001700
8	APG2000is-O-08-HY	pipe,fuel	62064000100
9	APG2000is-O-09-HY	fixed rubber cver,fuel tank	62014001100

Electrical plate assy

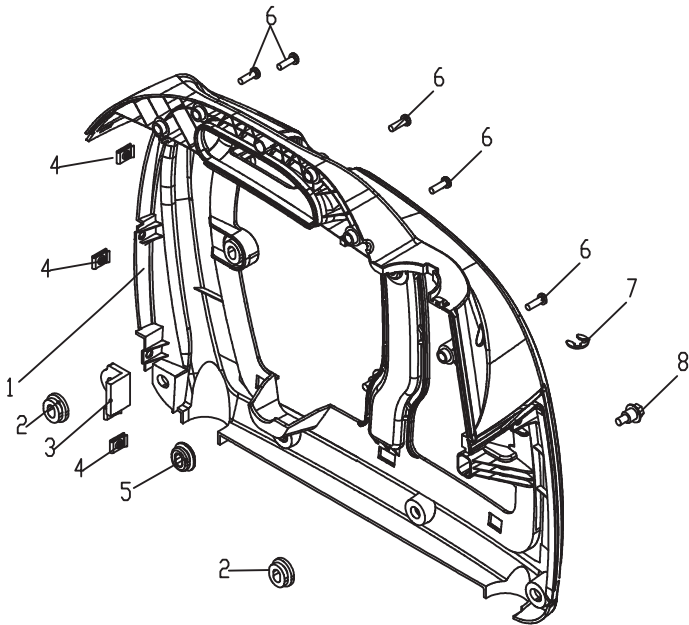
NO	APA Part No	Description	Factory Part No.
1	APG2000is-P-01-HY	screw,cross pan head	703000002300
2	APG2000is-P-02-HY	pilot light assy	62016000100
3	APG2000is-P-03-HY	AC socket	67046001200
4	APG2000is-P-04-HY	wiring harness,AC output	62346000200
5	APG2000is-P-05-HY	nut,hexagon	70200001000
6	APG2000is-P-06-HY	protector	62066000500
7	APG2000is-P-07-HY	electrical plate assy	62345000100
8	APG2000is-P-08-HY	screw,cross pan head	703000007400
9	APG2000is-P-09-HY	screw,cross pan head	703000001700
10	APG2000is-P-10-HY	AC duplex socket	67044000100
11	APG2000is-P-11-HY	nut,hexagon	70200000200
12	APG2000is-P-12-HY	washer,spring	70600000800
13	APG2000is-P-13-HY	washer	70600000500



NO	APA Part No	Description	Factory Part No.
14	APG2000is-P-14-HY	washer,serrated	70600000600
15	APG2000is-P-15-HY	Protection resection switch	61016001900
16	APG2000is-P-16-HY	ECON,Switch	61016000900
17	APG2000is-P-17-HY	waterproof cap	61013003400
18	APG2000is-P-18-HY	Aviation socket assembly	63296000700
19	APG2000is-P-19-HY	USB socket	62536000200
20	APG2000is-P-20-HY	USB input harness	61406000400
21	APG2000is-P-21-HY	screw,cross pan head	70300002200
22	APG2000is-P-22-HY	screw,cross pan head	70300001300
23	APG2000is-P-23-HY	washer,serrated	70600000900
24	APG2000is-P-24-HY	ground wire line	62066000700
25	APG2000is-P-25-HY	main wire harness assy	62056000600

PART NO PART NAME PART NO

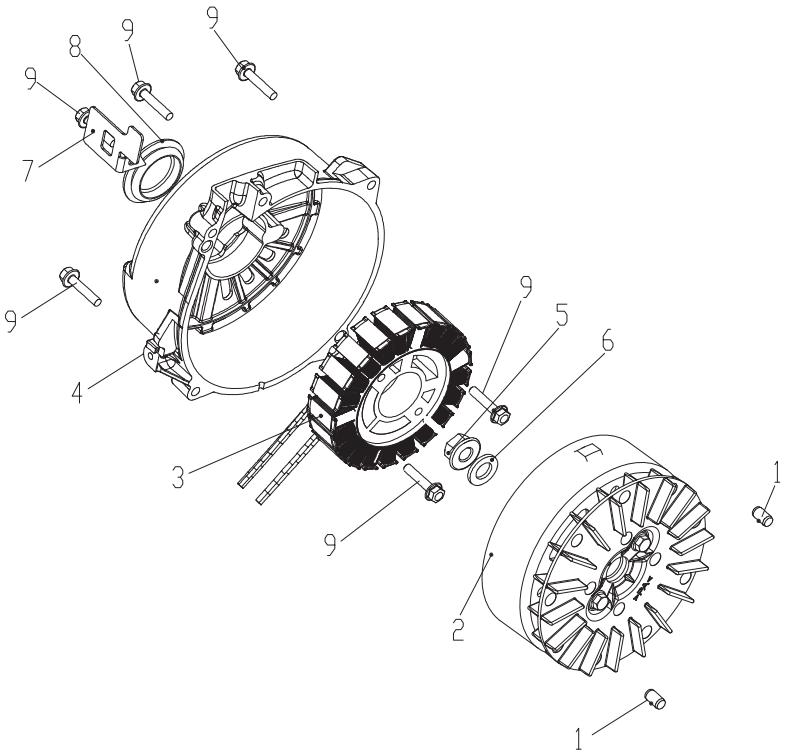
PART NO PART NAME PART NO



Cover,right assembly

Q

NO	APA Part No	Description	Factory Part No.
1	APG2000is-Q-01-HY	cover,right	62693000600
2	APG2000is-Q-02-HY	rubber cover,air cleaner maintenance cover	62014001300
3	APG2000is-Q-03-HY	rubber buffer,engine	62014000900
4	APG2000is-Q-04-HY	nut,spring	70200000101
5	APG2000is-Q-05-HY	bearing rubber,fuel tank	62014000500
6	APG2000is-Q-06-HY	screw,cross pan head	70300001100
7	APG2000is-Q-07-HY	cotter,valve	70600000400
8	APG2000is-Q-08-HY	bolts,flange	70100000601



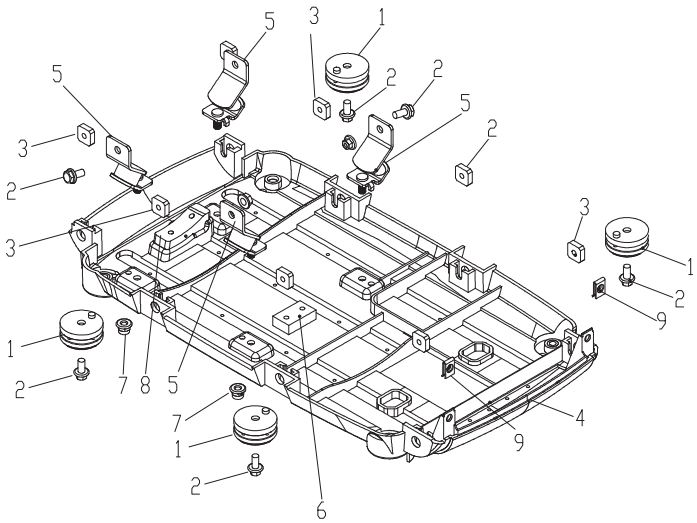
Rotor&stator assembly

R

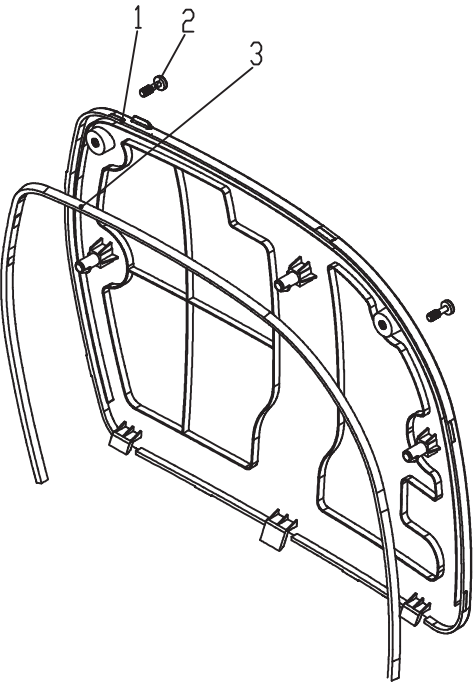
NO	APA Part No	Description	Factory Part No.
1	APG2000is-R-01-HY	pin,dowel	70400000301
2	APG2000is-R-02-HY	rotor,generator	62011000400
3	APG2000is-R-03-HY	stator,generator	62301000200
4	APG2000is-R-04-HY	cover,rear end	62015000100
5	APG2000is-R-05-HY	bolts,flange	70200000400
6	APG2000is-R-06-HY	washer	70600001000
7	APG2000is-R-07-HY	shield,wire	62015000200
8	APG2000is-R-08-HY	rubber plug	62014000400
9	APG2000is-R-09-HY	bolts,flange	70100000300
10	APG2000is-R-10-HY	bolts,flange	70100000200

PART NO PART NAME PART NO

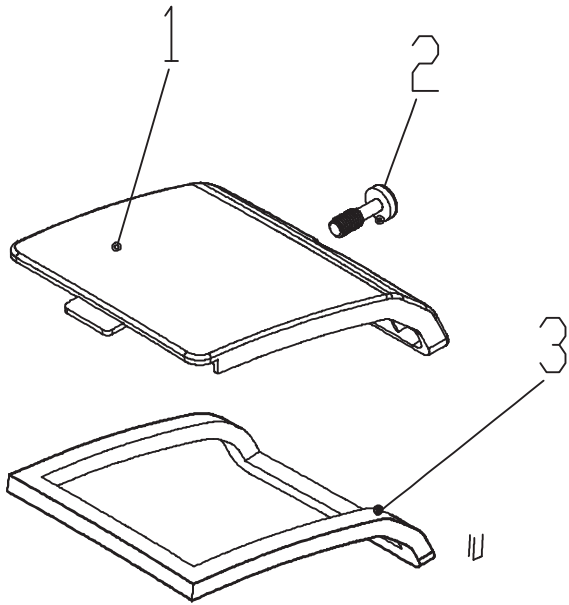
PART NO PART NAME PART NO



Base mounting assemblyS			
NO	APA Part No	Description	Factory Part No.
1	APG2000is-S-01-HY	rubber feet,whole machine	61014001300
2	APG2000is-S-02-HY	bolts,flange	70100000200
3	APG2000is-S-03-HY	nut,square	70200000501
4	APG2000is-S-04-HY	base,mounting	62053000200
5	APG2000is-S-05-HY	damper	62014000100
6	APG2000is-S-06-HY	bearing rubber pads,engine	62014000200
7	APG2000is-S-07-HY	nut,flange	70200000300
8	APG2000is-S-08-HY	bearing rubber pads,motor	62014000300
9	APG2000is-Q-04-HY	nut,spring	70200000101



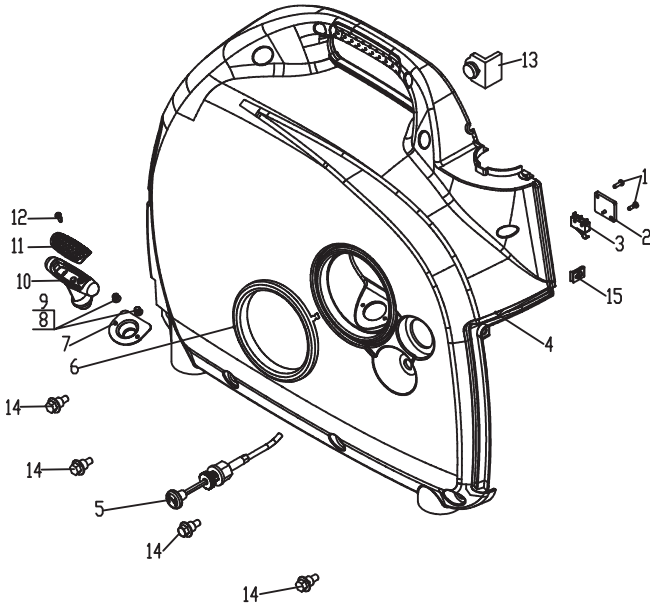
Cover air cleaner assemblyT			
NO	APA Part No	Description	Factory Part No.
1	APG2000is-T-01-HY	cover,air cleaner	62693000800
2	APG2000is-T-02-HY	screw,unloosening	70300000800
3	APG2000is-T-03-HY	spone	61017000300



cover,spark plug assembly

U

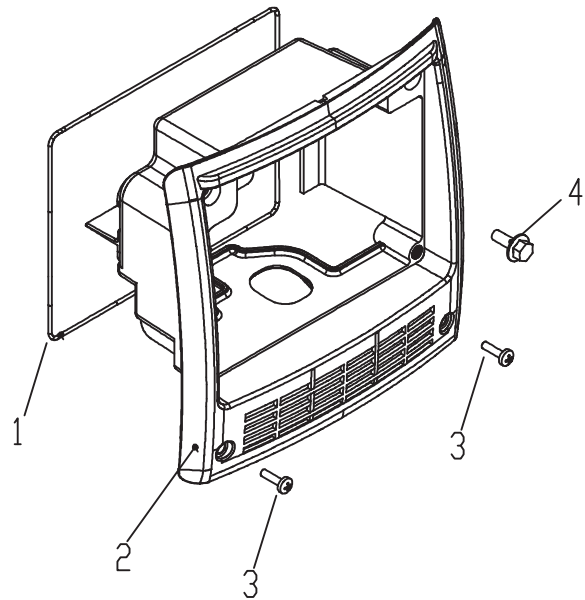
NO	APA Part No	Description	Factory Part No.
1	APG2000is-U-01-HY	cover,spark plug	62693001000
2	APG2000is-U-02-HY	sprk plug maintenance cover cotton insulation 1	62057003700
3	APG2000is-T-02-HY	screw,unloosening	70300000800



Cover left assembly

V

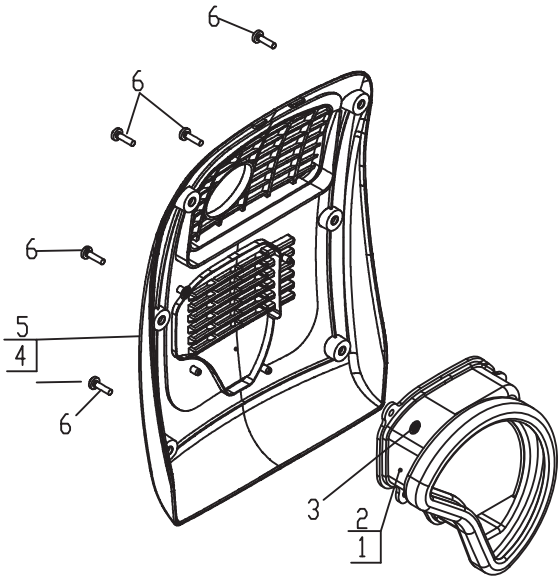
NO	APA Part No	Description	Factory Part No.
1	APG2000is-V-01-HY	screw,tapping	70300002400
2	APG2000is-V-02-HY	board,engine stop switch	62053000500
3	APG2000is-V-03-HY	engine stop switch	62056000200
4	APG2000is-V-04-HY	cover,left	62693000200
5	APG2000is-V-05-HY	inhaul cable,choke value	62013000800
6	APG2000is-V-06-HY	trim cover,recoil	62055000200
7	APG2000is-V-07-HY	locating board,recoil	62015000600
8	APG2000is-V-08-HY	rivet	70800000100
9	APG2000is-V-09-HY	flat gasket	70600001300
10	APG2000is-V-10-HY	recoil	62013001400
11	APG2000is-V-11-HY	cap,recoil	62323000400
12	APG2000is-V-12-HY	screw,tapping	70300000100
13	APG2000is-Q-03-HY	rubber buffer,engine	62014000900
14	APG2000is-Q-08-HY	bolts,flange	70100000601
15	APG2000is-Q-04-HY	nut,spring	70200000101



Control box component assembly

W

NO	APA Part No	Description	Factory Part No.
1	APG2000is-W-01-HY	O type rubber ring	62014001500
2	APG2000is-W-02-HY	control box component	62053001800
3	APG2000is-Q-06-HY	screw,cross pan head	70300001100
4	APG2000is-S-02-HY	bolts,flange	70100000200

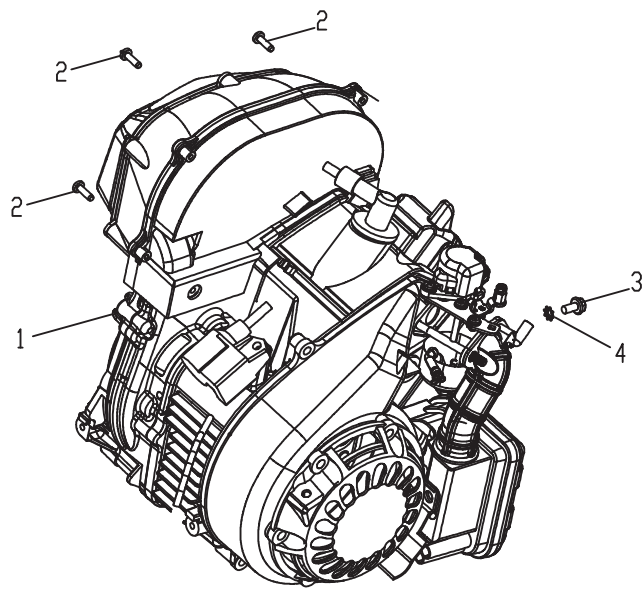


Cover muffler assembly

X

NO	APA Part No	Description	Factory Part No.
1	APG2000is-X-01-HY	rubber,air-director,motor	62054000200
2	APG2000is-X-02-HY	Insulation cotton	62017005400
3	APG2000is-X-03-HY	lock washer	70600001100
4	APG2000is-X-04-HY	Cover,muffler	62053001600
5	APG2000is-X-05-HY	Insulation cotton,muffler cover	62057004800
6	APG2000is-Q-06-HY	screw,cross pan head	70300001100

PART NO PART NAME PART NO



Engine assey

Y

NO	APA Part No	Description	Factory Part No.
1	APG2000is-Y-01-HY	engine assey	62290000100
2	APG2000is-Y-02-HY	screw,cross pan head	70300000300
3	APG2000is-Y-03-HY	bolte,fiange	70100011900
4	APG2000is-Y-04-HY	washer,serrated	70600005400