

IMPORTANT:

- Use only UNLEADED gasoline with an octane rating of 87 or higher.
- Do not use old gas.
- Never use an oil/gasoline mixture.
- Avoid getting dirt or water in the fuel tank.
- Never store generator for extended periods of time with fuel in the tank.

Step 3- Ground the Generator

 **WARNING:** Failure to properly ground the generator can result in electrocution. Ground the generator by tightening the grounding nut against a grounding wire (see figure 5). A generally acceptable grounding wire is a No. 12 AWG (American Wire Gauge) stranded copper wire. This grounding wire should be connected at the other end to a copper or brass-grounding rod that is driven into the earth.

Grounding codes can vary by location. Please contact a local electrician to check the grounding regulations for your area.

STARTING THE GENERATOR - Gasoline or LPG separately

CAUTION:

When using gasoline, LPG must be shut off! When using LPG, gasoline must be shut off!

 **Disconnect all electrical loads from the generator before attempting to start!**

To start your generator with gasoline, perform the following steps:

1. Make sure no electrical devices are connected to the generator. Such devices can make it difficult for the engine to start.
2. Check that the generator is properly grounded (see page 13, "*Ground the Generator*").
3. Turn the gasoline fuel valve to the "ON" position
4. Move the choke lever to the "CLOSED" position (see *figure 7*).
5. Set the engine switch to the "ON" position.
6. Pull on the recoil starter handle slowly until a slight resistance is felt (see *figure 8*). Then pull quickly to start the engine. Return cord gently into the machine. Never allow the cord to snap back.
7. If engine fails to start, repeat step 4. NOTE: After repeated attempts to start the engine, please consult the troubleshooting guide before attempting again.
8. Once the engine has started and run for about a minute, move the choke lever about half way towards the "OPEN" position. Wait another 30 seconds and then move the choke lever all the way to the "OPEN" position.
9. Allow the generator to run for several minutes before attempting to connect any electrical devices.

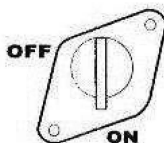


Figure 6 - fuel valve in the "on" position

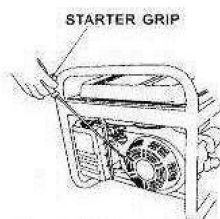


Figure 8 - Pulling the recoil start.



Figure 7 - Choke in the close position

To start your generator with LPG, perform the following steps:

1. Make sure no electrical devices are connected to the generator.
2. Check that the generator is properly grounded (see page 13, "*Ground the Generator*").
3. Turn the gasoline fuel valve to the "OFF" position (see *figure 6*).
4. Connect the propane gas hose to the regulator (see *figure B*).
5. Connect the regulator to the liquid propane gas supply and then turn on the liquid propane gas supply, making sure there are no leaks (see *figure C*).
6. Open the clasp connected to the Pressure Release Valve (see *figure C*).
7. Press the button on Pressure Release Valve two to three times before starting the engine. (see *figure D*)
8. When starting the engine:
 - a. If the engine is warm (The unit was run recently) start with the choke half open.
 - i. Wait another 30 seconds and then move the choke lever all the way to the "OPEN" position.
 - b. If the engine is cold (The unit has not been run for half an hour or more) start with the choke open. (see *figure E & F*).
9. Pull on the recoil starter handle slowly until a slight resistance is felt (see *figure 8*). Then pull quickly to start the engine. Return cord gently into the machine. Never allow the cord to snap back.
10. Allow the generator to run for several minutes before attempting to connect any electrical devices.

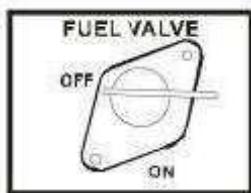


Figure A - Fuel Valve in the "OFF" position



Figure C-Connect Valve



Figure B - Connect the Hose



Figure D -Button on Pressure Release Valve



Figure F - Start with LPG(Liquid Propane Gas)



WARNING: WHEN USING THE GENERATOR WITH LPG

MAKE SURE THERE IS NO POSSIBLE IGNITION SOURCE CLOSE TO THE GENERATOR.

1. Before using, make sure all of the connectors and hoses are well connected and sealed.
2. Connect electrical devices to generator ONLY after the engine runs smoothly. (There may be remnant gasoline in the carburetor; this can cause unsteady engine performance for several minutes)
3. If the propane gas leaks, shut off the LPG supply first and then quickly unplug or turn off any electrical devices powered by the unit.
4. When stopping the engine, unplug or turn off any electrical devices and then turn off the LPG CLASP (see figure C). After the engine has stopped, turn the KEY to 'OFF" position, then shut off the LPG supply.

USING THE GENERATOR

Once you have allowed the engine to run for several minutes, you may connect electrical devices to the generator.

AC Usage

You may connect electrical devices running on AC current according to their wattage requirements. The chart in figure 9 shows the rated and surge wattage of your generator according to its model number.

The *rated wattage* corresponds to the maximum wattage the generator can output on a continuous basis.

The *surge wattage* corresponds to the maximum amount of power the generator can output for a short period of time. Many electrical devices such as refrigerators require short bursts of extra power, in addition the rated wattage listed by the device, to stop and start their motors. The surge wattage ability of the generator covers this extra power requirement.

Model Number	Rated (Running) Wattage	Surge Wattage
XP4400	3500	4400
XP4400E	3500	4400

Figure 9-generator wattage by model number

The total running wattage requirement of the electrical devices connected to the generator should not exceed the rated wattage of the generator itself. To calculate the total wattage requirement of the electrical devices you wish to connect, find the rated (or running) wattage of each device. This number should be listed somewhere on the device or in its instruction manual.

If you cannot find this wattage, you may calculate it by multiplying the Voltage requirement by the Amperage drawn: $\text{Watts} = \text{Volts} \times \text{Amperes}$. If these specifications are not available you may estimate the Watts required by your device by using the chart in *figure 10*.

Tool or Appliance	Rated (Running) Watts	Additional Surge Watts
Electric water heater (40 gal)	4000	0
Hot plate	2500	0
Saw-radial arm	2000	2000
Electric stove	1500	0
Saw-circular	1500	1500
Air compressor (1HP)	1500	3000
Window air conditioner	1200	1800
Saw-miter	1200	1800
Microwave	1000	2000
Well water pump	1000	1500
Reciprocating saw	960	1040
Sump pump	800	1200
Refrigerator freezer	800	1200
Furnace blower	800	1300
Computer	800	0
Electric drill	600	900
Television	500	0
Deep freezer	500	800
Garage door opener	480	600
Stereo	400	0
Box fan	300	600
Clock radio	300	0
Security system	180	0
DVD player/VCD	100	0
Common light bulb	75	0

Figure 10- Estimated wattage requirements of common electrical devices.

Once you have found the rated wattage requirement of each electrical device, add these numbers to find the total rated wattage you wish to draw from the generator. If this number exceeds the rated wattage of the generator, **DO NOT** connect all these devices. Select a combination of electrical devices, which has a total rated wattage lower than or equal to the rated wattage of the generator.

CAUTION - The generator can only run at its surge wattage capacity for a short time. Connect only electrical devices requiring a rated (running) wattage equal to or less than the rated wattage of the generator. Never connect devices requiring a rated wattage equal to the surge wattage of the generator.

NOTE: The above wattage figures are estimates only. Try to check the wattage listed on your electrical devices before consulting this chart.

Once you have determined what electrical devices you will be powering with the generator, connect these devices according to the following procedure:

1. Plug in each electrical device with the device turned off.
 - a. NOTE: Be sure to attach appliances to the correct receptacle (outlet). Connect standard 120 Volt, single phase, 60 Hz loads only to the 120 Volt receptacles.
 - b. Connect 120/240 Volt, single phase, 60Hz loads with NEMA L14-30 plug **only** to the 120/240 Volt receptacle See *Figure 11* for a depiction of each of these receptacles.
2. Switch the circuit breaker to the "ON" position.
3. Turn on the connected electrical devices in the order of the amount of power they require beginning with the device with the highest rated Wattage requirement.

⚠ CAUTION: Do not connect 50Hz or 3-phase loads to the generator.

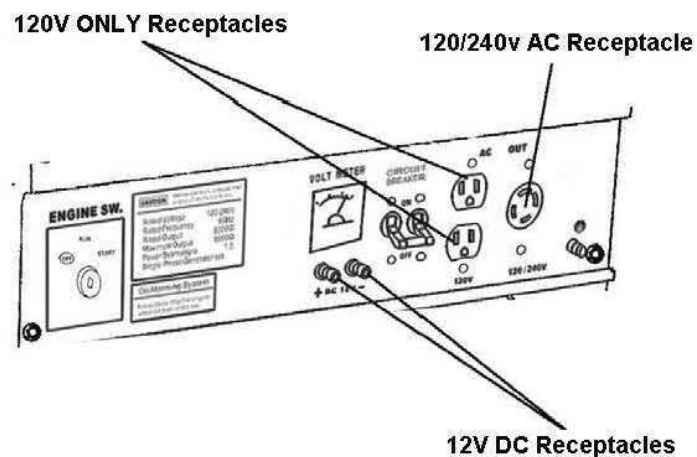


Figure 11- Receptacles available on the generator

VOLTAGE SELECTOR SWITCH

The voltage selector switches the dual 120v AC windings of the generator to produce "120V ONLY" or "120/240V". If a 240V appliance is connected to the 4-prong receptacle, the switch must be in the "120/240V" position. If only 120V appliances are being connected to the generator select the "120V ONLY" position to double the 120v amperage.

WARNING:

Only change the Voltage Selector Switch with the main AC circuit breaker OFF. The generator can be seriously damaged if the Voltage Selector Switch is changed with the breaker ON.

SOME NOTES ABOUT POWER CORDS

Long or thin cords can drain the power provided to an electrical device by the generator. When using such cords, allow for a slightly higher rated wattage requirement for the electrical device. See *Figure 12* for recommended cords based on the power requirement of the electrical device.

Device Requirements			Max. Cord Length (ft.) by Wire Gauge				
Amps	Watts (120V)	Watts (240V)	#8 wire	#10 wire	#12 wire	#14 wire	#16 wire
2.5	300	600	NR	1000	600	375	250
5	600	1200	NR	500	300	200	125
7.5	900	1800	NR	350	200	125	100
10	1200	2400	NR	250	150	100	50
15	1800	3600	NR	150	100	65	NR
20	2400	4800	175	125	75	50	NR
25	3000	6000	150	100	60	NR	NR
30	3600	7200	125	65	NR	NR	NR
40	4800	9600	90	NR	NR	NR	NR

*NR= not recommended

Figure 12 - Maximum Extension Cord Lengths by Power Requirement

DC Usage

⚠ CAUTION: The DC receptacle is for recharging 12 Volt automotive-type batteries only. Do not connect any other device to this receptacle.

⚠ CAUTION: Never try to jump start a car with your generator.

To connect 12 Volt batteries to the DC receptacle:

1. Connect one charging wire to the positive terminal on the battery and the other charging wire to the negative terminal on the battery.
2. Connect the free end of the positive wire to the positive receptacle (outlet) on the generator.
3. Start the generator.
4. Carefully connect the free end of the negative wire to the negative receptacle on the generator.
5. When disconnecting, always disconnect the wires from the generator first to avoid a spark.

⚠ DANGER: Storage batteries emit highly explosive hydrogen gas when charged.

Batteries also contain acid, which can cause severe chemical burns.

⚠ Do not allow open flames or cigarettes nearby for several minutes after charging a battery.

⚠ Always wear protective goggles and rubber gloves when charging a battery.

⚠ If battery acid gets on your skin, flush with water.

⚠ If battery acid gets in your eyes, flush with water and call a physician immediately.

⚠ If battery acid is swallowed, drink large quantities of milk and call a Physician immediately.

If your generator is the electric start model, once running, it will charge the battery on the generator automatically. While charging, you can see the recharge indicator light lit, after the battery is full, the light will turn off.

STOPPING THE GENERATOR

To stop the generator:

1. Power down, and then unplug all connected electrical devices.
2. Switch the main AC circuit breaker to the "OFF" position.
3. Allow the generator to run for several more minutes with no electrical devices connected. (This helps stabilize the temperature of the generator.)
4. Turn the engine switch to the "OFF" position.
5. Turn the fuel valve to the "OFF" position.

 **WARNING:** Allow the generator to cool for several minutes before touching areas that become hot during use.

 **CAUTION:** Allowing gas to sit in the generator tank for long periods of time without use can make it difficult to start the generator in the future. Never store generator for extended periods of time with fuel in the tank.

MAINTENANCE /CARE

Proper routine maintenance of your generator will help prolong the life of your machine. Please perform maintenance checks and operations according the schedule in *figure 13*.

 **CAUTION:** Never perform maintenance operations while the generator is running.

Recommended Maintenance schedule

		Each use	Every month or	Every 3 months or	Every 6 months or	Every year or
Engine oil	Check level	x				
	Replace		x			
Air cleaner	Check	x				
	Clean			x		
Fuel filter cup	Clean				x	
Spark plug	Check/clean				x	
Gas tank	Check gas level	x				
	Clean		x			x

Figure 13 - Recommended maintenance schedule

Cleaning the Generator

Always try to use your generator in a cool dry place. However, in the event your generator becomes dirty you may clean the exterior with one or more of the following:

- A damp cloth
- A soft brush

- A vacuum
- Pressurized air

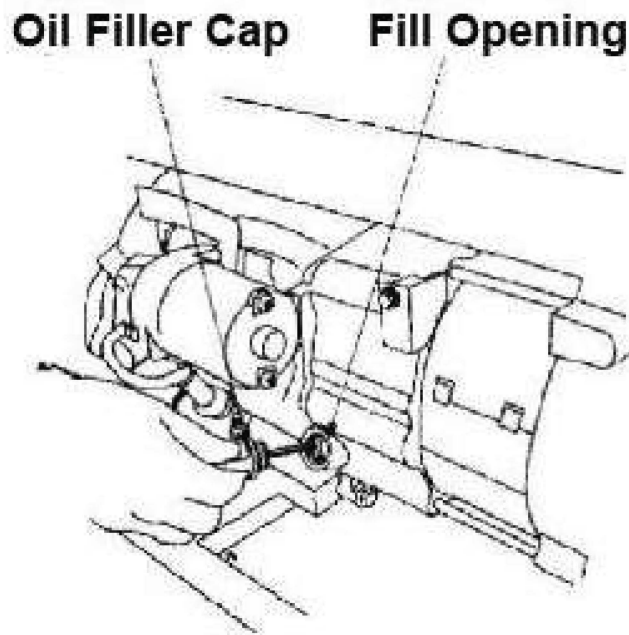
⚠ Never clean your generator with a bucket of water or a hose. Water can get inside the working parts of the generator and cause a short circuit or corrosion.

Checking the Oil

The generator is equipped with an automatic shutoff to protect it from running on low oil. Nonetheless, you should check the oil level of the generator before each use to ensure that the generator crankcase has a sufficient amount.

To check the oil level:

1. Make sure the generator is on a level surface.
2. Unscrew the oil filler/dipstick cap (see *figure 14*).
3. With a dry cloth, wipe the oil off of the stick on the inside of the cap.
4. Insert the dipstick as if you were replacing the cap and then remove again. There should now be oil on the stick. If there is no oil on the stick, or oil only at the very end of the stick, you should add oil until the engine crankcase is filled. See "*Changing/ Adding Oil*" in this section.
5. Be sure to replace cap when you are finished checking the oil.



You should check the oil level of your generator according to the maintenance schedule in *figure 13*. When the oil level is low you will need to add oil until the level is sufficient to run the generator. The oil capacity of your generator engine is listed in *figure 15*.

Model number	XP4400	XP4400E
Engine oil capacity	20 fluid oz.	20 fluid oz.

Figure 15- Engine Oil Capacity.

It is only necessary to drain the oil from the crankcase, other than for regular oil changes if it has become contaminated with water or dirt. In this case, you can drain the oil from the generator according to the following steps:

1. Place an approved oil disposal container underneath the generator to catch oil as it drains.
2. Using a 10 mm hex wrench, unscrew the oil drain plug, which is located on the crankcase underneath the oil filler/dipstick cap (see *figure 16*). Allow all the oil to drain from the generator.
3. Replace the oil drain plug and tighten with a 10 mm hex wrench.

To add oil to the crankcase, follow these steps:

1. Make sure the generator is on a level surface.
2. Unscrew the oil filler/dipstick cap from the engine as shown in *figure 14* above.
3. Using a funnel, add motor oil to the crankcase. We recommend SAE 10W30 motor oil for general use. When full, the oil level should come close in the top of the oil fill opening (see *figure 17*).

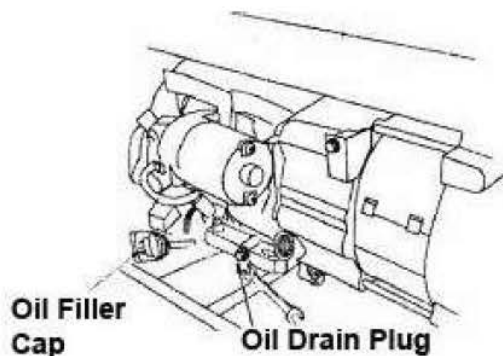


Figure 16: Draining Oil



Figure 17: Adding Oil

NOTE: Never dispose of used motor oil in the trash or down a drain. Please call your local recycling center or auto garage to arrange oil disposal.

Air Cleaner Maintenance

Routine maintenance of the air cleaner helps maintain proper airflow to the carburetor. Occasionally check that the air cleaner is free of excessive dirt.

1. Unhinge the clasps at the top and bottom of the air cleaner cover (see *figure 18*).
2. Remove the sponge-like elements from the casing.
3. Wipe the dirt from inside the empty air cleaner casing.
4. Wash the sponge-like elements in household dish detergent and warm water.
5. Allow the elements to dry completely.
6. Soak the dry elements in a small amount of engine oil. Ring out any excess oil.
7. Replace the sponge-like elements in the air cleaner casing and replace the cover.

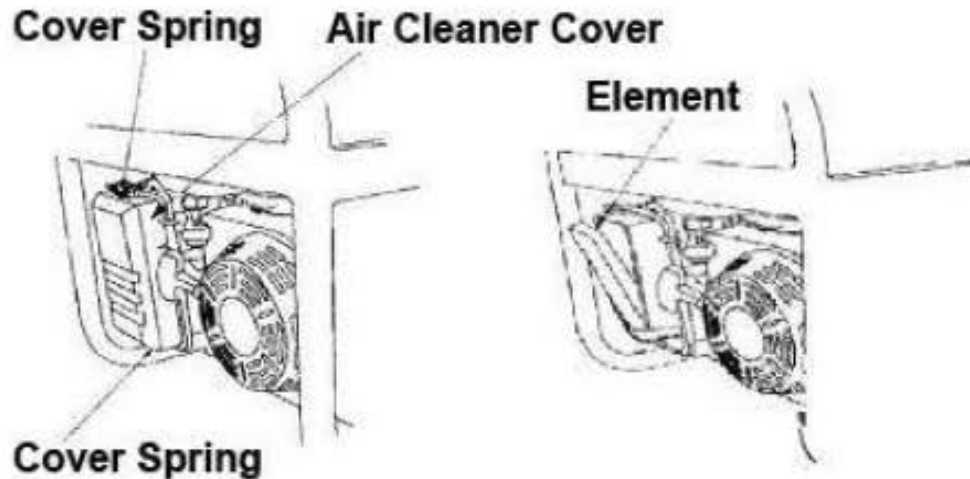


Figure 18 – Removing the air cleaner casing.

Fuel Filter Cup Cleaning

The fuel filter cup is a small well underneath the fuel valve. It helps to trap dirt and water that may be in your fuel tank before it can enter the engine.

To clean the fuel filter cup:

1. Turn the fuel valve to the "OFF" position.
2. Unscrew the fuel filter cup from the fuel valve using a wrench. Turn the valve toward you to unscrew (see figure 19).
3. Clean the cup of all sediment using a rag or brush.
4. Reinstall the fuel filter cup.

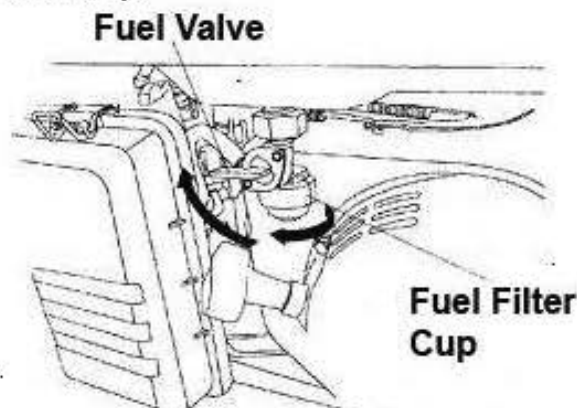


Figure 19 –Removing the Fuel Filter Cup

Spark Plug Maintenance

The spark plug is important for proper engine operation. A good spark plug should be intact, free of deposits, and properly gapped.

To inspect you spark plug:

1. Pull on the spark plug cap to remove it.
2. Unscrew the spark plug from the generator using the spark plug wrench included with this product (see figure 20).
3. Visually inspect the spark plug. If it is cracked or chipped, discard and replace with a new spark plug. We recommend using a F6RTC spark plug such as NGK BPR5ES.
4. Measure the plug gap with a gauge (see figure 21). The gap should be 0.7-0.8 mm (0.028-0.031 in).
5. If you are re-using the spark plug, use a wire brush to clean any dirt from around the spark plug base and then re-gap the spark plug.

6. Screw the spark plug back into its place on the generator using the spark plug wrench.
7. Replace the spark plug cap.

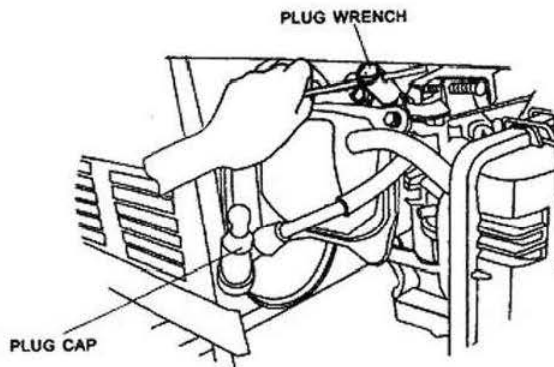


Figure 20- Removing the spark plug

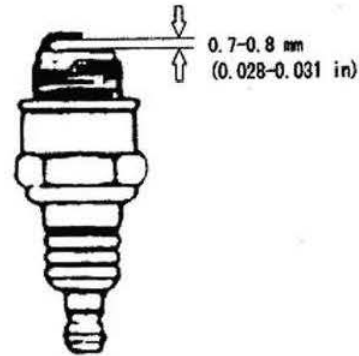


Figure 21- Measuring the spark plug gap

Emptying the Gas Tank

Before storing your generator for extended periods of time, you should drain your generator of gasoline.

To drain the generator of gas:

1. Turn the fuel valve to the "OFF" position.
2. Remove the fuel filter cup (see *"Removing the Fuel Filter Cup"* earlier in this section).
3. Empty the fuel filter cup of any fuel.
4. With a receptacle underneath the generator to catch the gas, turn the fuel valve to the "ON" position. Drain all the gas from the generator.
5. Turn the fuel valve to the "OFF" position.
6. Replace the fuel filter cup.
7. Store the emptied gasoline in a suitable place.

⚠CAUTION: Do not store fuel from one season to another.

STORAGE/TRANSPORT PROCEDURES

⚠ Caution: Never place any type of storage cover on the generator while it is still hot.

When transporting or storing your generator for extended periods of time:

- Empty the gas tank (see *"Emptying the Gas Tank"* in the *"Maintenance"* section).
- Disconnect the spark plug.
- Do not obstruct any ventilation openings.
- Keep the generator in a cool dry area.

GENERATOR SPECIFICATIONS

AC Output

	XP4400H	XP4400EH
Rated Wattage	3500W	3500W
Surge Wattage	4400W	4400W
Rated Voltage	120/240V	120/240V
Rated Frequency	60Hz	60Hz
Phase	Single	Single

DC Output

	XP4400H	XP4400EH
Voltage	12V	12V
Amperage	8.3A	8.3A
Dimensions (in):	Length=23.2 Width=17 Height=17	Length=23.2 Width=17 Height=17

Engine

	XP4400H	XP4400EH
Engine type	4-stroke OHV single cylinder with forced air cooling system	
Ignition system	Non-contact transistor	
Displacement	200cc	
Starting type	Recoil	Electric
Fuel tank capacity:	15L(3.96US gal.)	
Oil capacity	0.6L(20fl oz.)	
Run time on 50% load	14hrs	12 hrs
Noise Level	< 69dB	

TROUBLESHOOTING

Problem	Cause	Solution
Engine will not start	Engine switch is set to "OFF".	Set engine switch to "ON".
	Fuel valve is turned to "CLOSED".	Turn fuel valve to "OPEN" position.
	Choke is open.	Close the choke
	Engine is out of gas.	Add gas.
	Engine is filled with contaminated or old gas	Change the gas on the engine.
Engine will not start (continued from page 19)	Spark plug is dirty.	Clean spark plug.
not start (continued from page 19)	Spark plug is broken.	Replace spark plug.
	Generator is not on level surface.	Move generator to a level surface to prevent low oil shutdown from triggering.
	Oil is low	Add or replace oil.
Engine runs but there is no electrical output	Circuit breaker is off.	Set the circuit breaker to the "ON" position.
	Bad connecting wires/cables.	If you are using an extension cord, try a different one.
	Bad electrical device connected to generator.	Try connecting a different device.
Generator runs but does not support all electrical devices connected.	Generator is overloaded	Try connecting fewer electrical loads to the generator.
	Shorten one of the connected devices.	Try disconnecting any faulty or short-circuited electrical loads.
	Air cleaner is dirty.	Clean or replace air cleaner.

GENERATOR ASSEMBLY AND MOUNTING

Generator is supplied with a wheel kit. If you want to install the wheel kit on your unit, please follow the instructions below. If you will not be using the wheel kit, skip this section.

1. Place the bottom of the generator cradle on a flat, even surface. Temporarily place unit on blocks to ease assembly.
2. Secure the support leg to the cradle with cap screws (M8 x 16) and lock nuts (M8) (see *figure 22*).
3. Secure the axle to the cradle with cap screws (M8 x 16) and lock nuts (M8) (see *figure 23*).
4. Slide a wheel over the axle, then secure the wheel with a retaining pin. (see *figure 24, Figure 25, Figure 26*).
5. Position the handles on the cradle and attach, cap screws (M8 x 16) and lock nuts (M8) (*Figure 27, Figure 28*).
6. Check that all fasteners are tight.



Figure 22



Figure 23



Figure 24



Figure 25



Figure 26

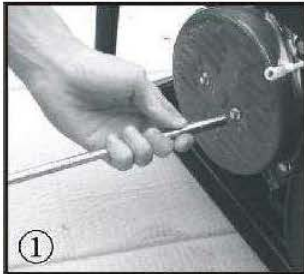


Figure 27

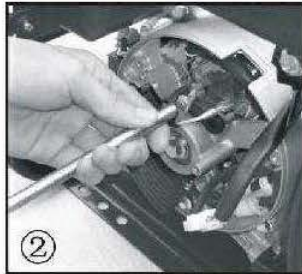


Figure 28

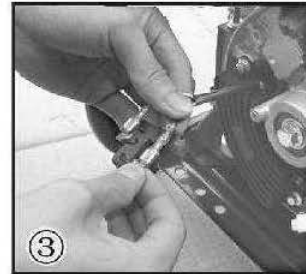
CHANGE THE CARBON-BRUSH



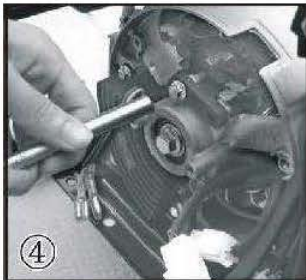
① Remove the 2 bolts (M5x12) on the generator back-cover



② Remove the bolt (M5x16) holding the carbon brush.



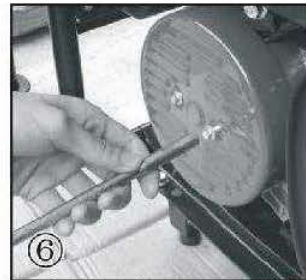
③ Remove the 2 wires from the AVR on the carbon brush.



④ Install the new carbon brush with bolt (M5x16)

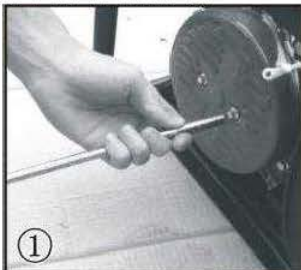


⑤ Insert and connect the 2 wires from the AVR, be sure to connect + and - correctly.



⑥ Replace the back cover of the generator and secure with the 2 bolts (M5x12)

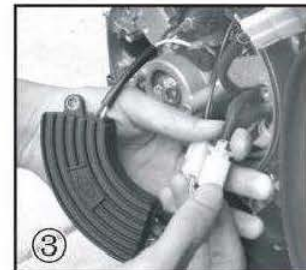
CHANGE THE AVR



① Remove the 2 bolts (M5x12) on the generator back cover.



② Remove the 2 bolts (M5x16) holding the AVR.



③ Disconnect the wire clip.



④ Remove the 2 wires of the AVR from the carbon brush.



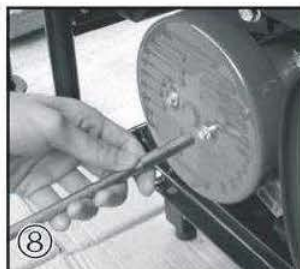
⑤ Install the new AVR with the 2 bolts (M5x16).



⑥ Reconnect the wire clip.

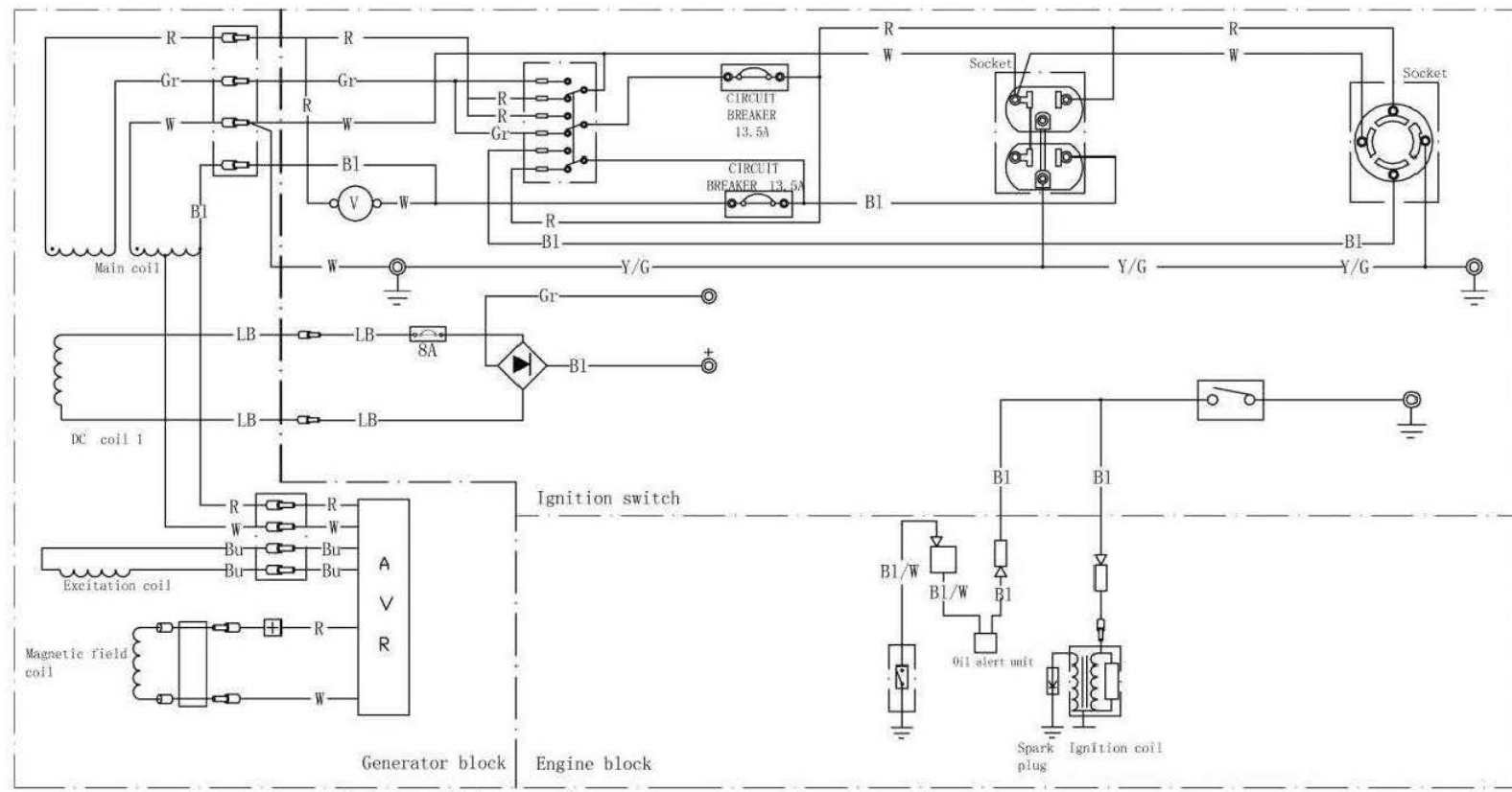


⑦ Connect the 2 wires to the carbon brush, be sure to connect the + and - correctly.



⑧ Replace the back cover of the generator and secure with the 2 bolts (M5x12).

WIRING DIAGRAM (XP4400H)

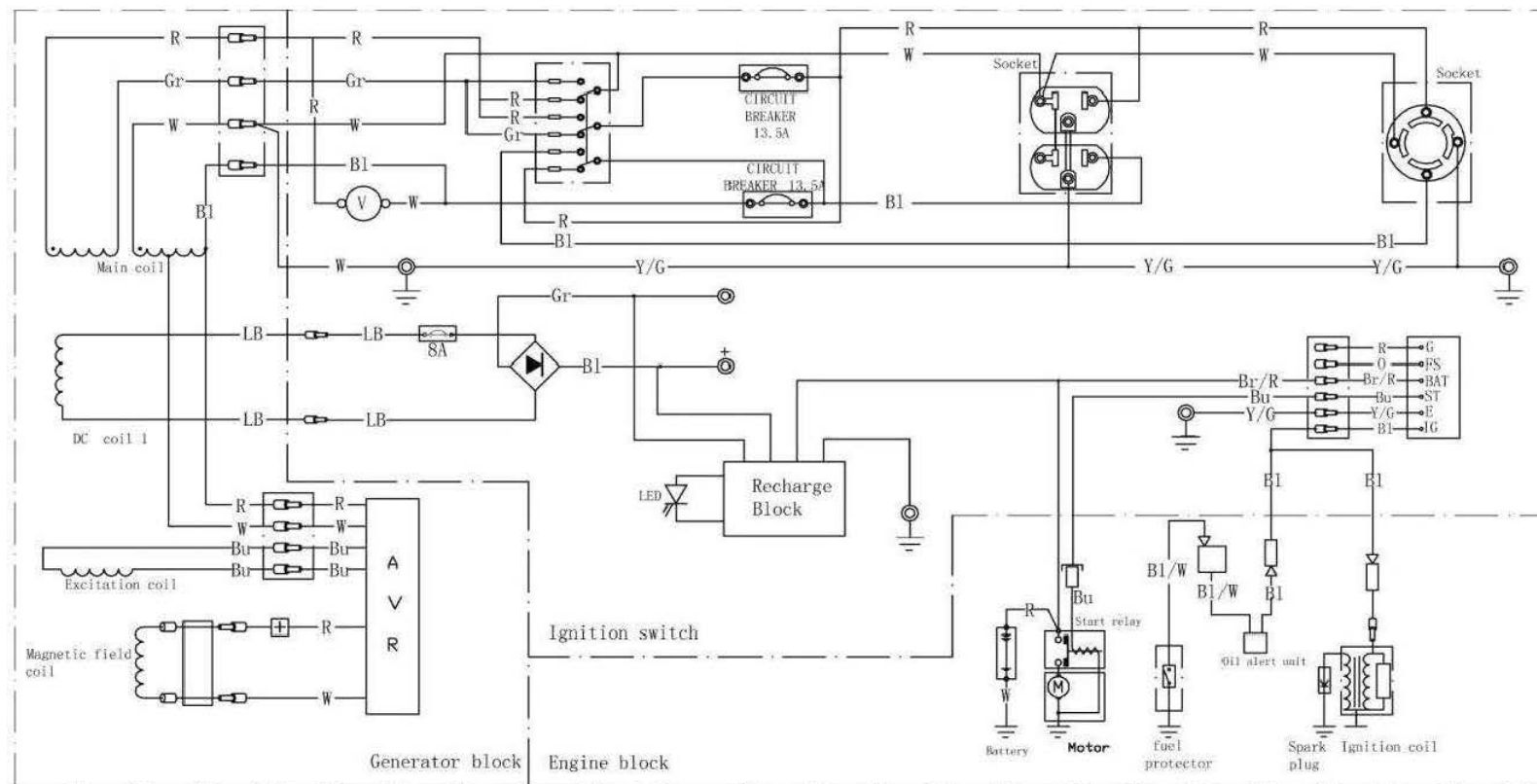


B1	Black	Br	Brown
O	Orange	Br/R	Brown/Red
Bu	Blue	LB	Light blue
Gr	Gray	Y/G	Yellow/Green
R	Red	W	White

	IG	E	BAT	ST	FS	G
OFF	☐	☐	☐	☐	☐	☐
ON	☐	☐	☐	☐	☐	☐
Start	☐	☐	☐	☐	☐	☐

WIRING DIAGRAM OF 120V/240V GENERATOR SET

WIRING DIAGRAM (XP4400EH)



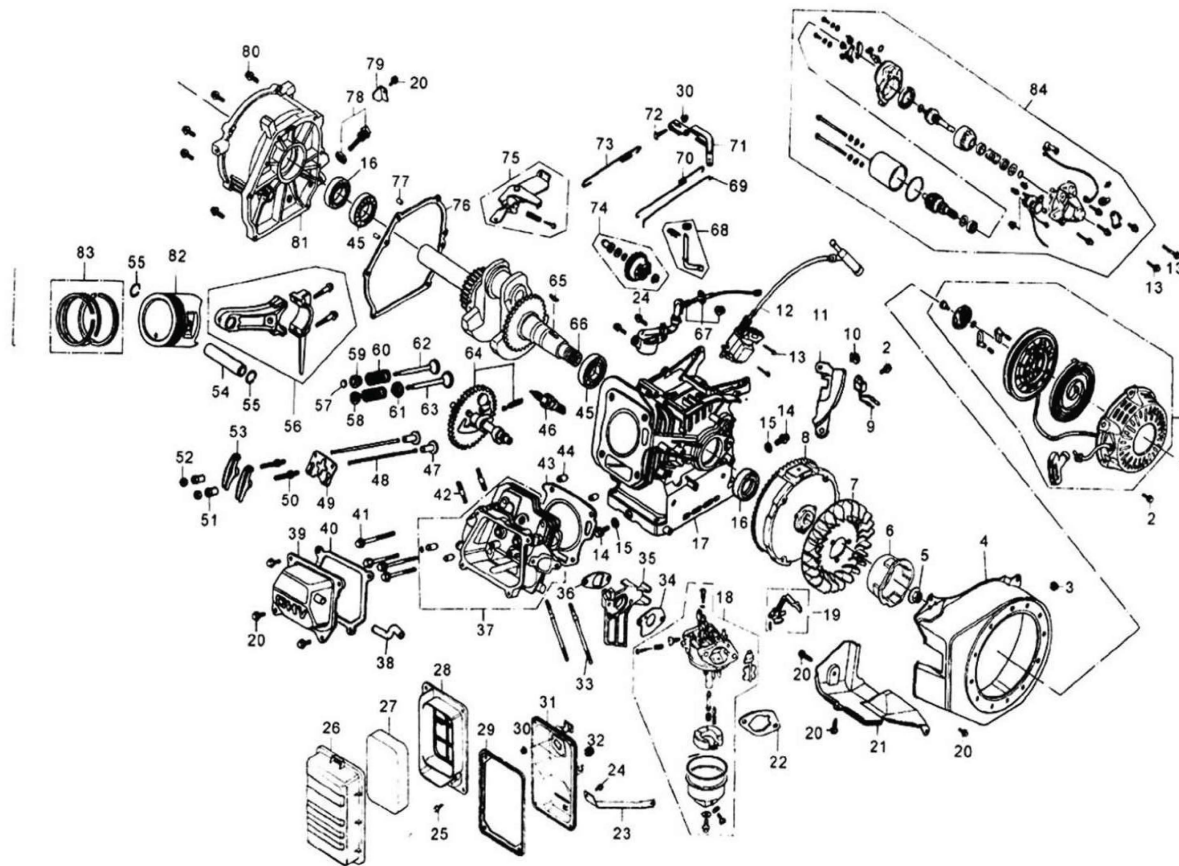
Ignition switch connecting

B1	Black	Br	Brown
O	Orange	Br/R	Brown/Red
Bu	Blue	LB	Light blue
Gr	Gray	Y/G	Yellow/Green
R	Red	W	White

	IG	E	BAT	ST	FS	G
OFF	○	○			○	○
ON						
Start			○	○		

WIRING DIAGRAM OF 120V/240V GENERATOR SET

XP4400E ENGINE EXPLODED



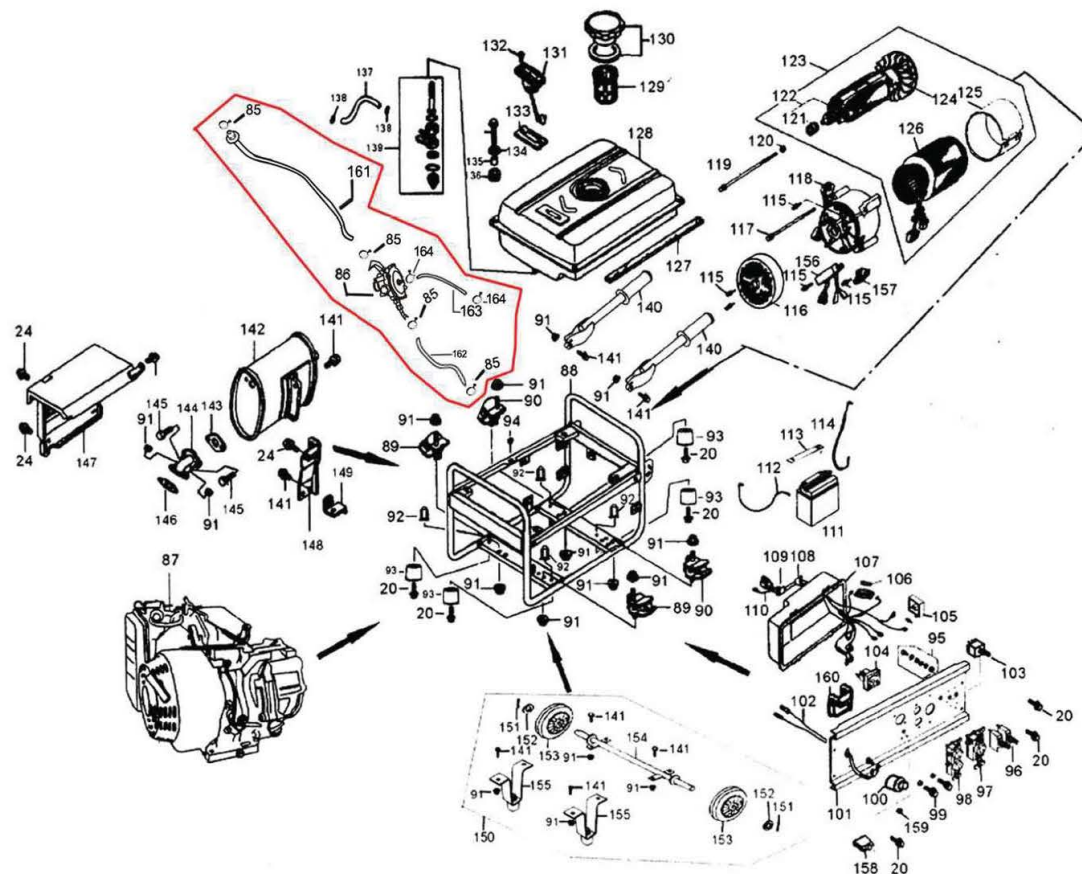
XP4400E

PARTS LIST

Part No.	Article Name	Qty	Cross Reference	Reference No.
1	Recoiler COMP	1	DJ168F-16121-K	XP4400E-1
2	Flange Bolt.M6*8	4	GBT5787-B6-8	XP4400E-2
3	Grommet Drain Hole	1	DJ168F-16118	XP4400E-3
4	Covering Fan COMP	1	DJ170N-16121-A	XP4400E-4
5	Flange, Nut M14	1	GBT6177/10-N-14	XP4400E-5
6	Starting Pulley	1	DJ168F-16000-A	XP4400E-6
7	Cooling Fan	1	DJ168F-16002-A	XP4400E-7
8	Flywheel COMP	1	DJ168F-16200-I	XP4400E-8
9	Oil Blocker	1	DJ168F-18300-A	XP4400E-9
10	Clip, Oil blocker	1	**SEE REF NO.	XP4400E-10
11	Side Plate	1	DJ170S-11400-A	XP4400E-11
12	Coil ASSY, Ignition	1	DJ168F-18100-C	XP4400E-12
13	Flange Bolt M6*25	2	GBT5787-B6-25	XP4400E-13
14	Bolt, Drain plug	2	DJ168F-11004-A	XP4400E-14
15	Washer, Drain plug	2	DJ168F-11005-A	XP4400E-15
16	Oil seal, 25*41*6	2	DJ168F-11014-A	XP4400E-16
17	Crank Case ASSY	1	DJ170F-11100-C	XP4400E-17
18	LPG Carburetor ASSY	1	DJ170FD-14100-C	XP4400E-18
19	Lever COMP, Choke	1	DJ168F-14119	XP4400E-19
20	Flange Bolt M6*12	11	GBT5787-B6-16	XP4400E-20
21	Shroud COMP	1	DJ168F-11012-A	XP4400E-21
22	Gasket, Carburetor to Air cleaner	1	DJ168F-14027-A	XP4400E-22
23	Stay, Air cleaner	1	DF2500H-14205-A	XP4400E-23
24	Flange Bolt M6*12	3	GBT5787-B6-12	XP4400E-24
25	Bolt,M5*12	4	GBT5787-B5-14	XP4400E-25
26	Cover COMP, Air cleaner	1	DJ168F-14204	XP4400E-26
27	Element, Air cleaner	1	DJ170F-14201	XP4400E-27
28	Seperator, Air cleaner	1	DJ168F-14202	XP4400E-28
29	Seal, air cleaner	1	DJ168F-14206	XP4400E-29
30	Flange nut M6	2	GBT6177-N-6	XP4400E-30
31	Case COMP, air cleaner	1	DJ168F-14205-A	XP4400E-31
32	Grommet Fender	1	DJ168F-14014-A	XP4400E-32
33	Bolt Head, 6*94	2	DJ168FD-14001-A	XP4400E-33
34	Gasket,Carburetor	1	DJ168F-14005-A	XP4400E-34
35	Heat Isolator,Carburetor	1	DJ168F-14004-A	XP4400E-35
36	Packing, Heat isolator	1	DJ168F-14003-B	XP4400E-36
37	Cylinder Head COMP	1	DJ170F-11200-B	XP4400E-37
38	Breather	1	DJ168FD-11013-A	XP4400E-38
39	Cover COMP, Cylinder head	1	DJ168F-11300-C	XP4400E-39
40	Gasket,Cylinder head	1	DJ168F-11011-A	XP4400E-40
41	Flange Bolt M8*60	4	GBT5787-B8-60	XP4400E-41
42	Bolt Head, M8*32	2	DJ168F-14002-A	XP4400E-42
43	Gasket,Cylinder head	1	DJ170F-11010-C	XP4400E-43
44	Pin,Dowel 10*16	2	DJ168F-11009-A	XP4400E-44
45	Radial Ball Bearing(6025)	2	GB276-89-6205	XP4400E-45

Part No.	Article Name	Qty	Cross Reference	Reference No.
46	Spark Plug	1	DJ168F-18500-A	XP4400E-46
47	Valve Lifter	2	DJ170F-13009-A	XP4400E-47
48	Push Rod	2	DJ170F-13008-B	XP4400E-48
49	Plate,Push rod guide	1	DJ168F-13300-A	XP4400E-49
50	Bolt,Pivot	2	DJ168F-13202-A	XP4400E-50
51	Nut,Valve rocker arm	2	DJ168F-13203-A	XP4400E-51
52	Nut, Pivot Adjust	2	DJ168F-13204-A	XP4400E-52
53	Valve Rocker Arm	2	DJ168F-413201-A	XP4400E-53
54	Piston Pin	1	DJ170F-12002-A	XP4400E-54
55	Clip, Piston pin	2	DJ168F-12003-A	XP4400E-55
56	Connecting Rod ASSY	1	DJ170F-12200-B	XP4400E-56
57	Valve Rocker	1	DJ168F-13006-A	XP4400E-57
58	Retainer,Intake Valve spring	1	DJ168F-13004-A	XP4400E-58
59	Retainer,EX.Valve spring	1	DJ168F-13005-A	XP4400E-59
60	Valve Spring	2	DJ168F-13003-A	XP4400E-60
61	Valve Spring Seat	1	DJ168F-13010-A	XP4400E-61
62	Valve Exhaust	1	DJ168F-13001-A	XP4400E-62
63	Valve,Intake	1	DJ168F-13002-A	XP4400E-63
64	Camshaft	1	DJ168F-13100-B	XP4400E-64
65	Key,25*18	1	DJ168F-12104	XP4400E-65
66	Crankshaft	1	DJ168F-12100-BB	XP4400E-66
67	Switch ASSY, Oil level	1	DJ168F-18200-A	XP4400E-67
68	Governor Shaft	1	DJ168F-15001-A	XP4400E-68
69	Rod,Governor arm	1	DJ168F-15006-A	XP4400E-69
70	Spring, Throttle return	1	DJ170F-15008-A	XP4400E-70
71	Governor Arm	1	DJ168F-15004-A	XP4400E-71
72	Bolt, Governor arm	1	DJ168F-15005-A	XP4400E-72
73	Governor Spring	1	DJ170F-15007-A	XP4400E-73
74	Governor ASSY	1	DJ168F-15100-A	XP4400E-74
75	Control ASSY	1	DJ168FD-15200-A	XP4400E-75
76	Packing, Case cover	1	DJ170F-11003-B	XP4400E-76
77	Pin,Dowel 8*14	2	DJ168F-11002-F	XP4400E-77
78	Cap, Oil filler	1	DJ168F-11007-A	XP4400E-78
79	Plat	1	DF1800H-33016-A	XP4400E-79
80	Flange Bolt M8*32	6	GBT5787-B8-35	XP4400E-80
81	Crankcase Cover	1	DJ168FD-11001-C	XP4400E-81
82	Piston	1	DJ170F-12001-B	XP4400E-82
83	Piston Ring Set	1	DJ170F-12300-A	XP4400E-83
84	Start Motor	1	DJ168F-18600-A	XP4400E-84

XP4400E OTHERS EXPLODED



XP4400E

PARTS LIST

Part No.	Article Name	Qty	Cross Reference	Reference No.
85	Clip, Tube	4	**SEE REF NO.	XP4400E-85
86	Pressure Release Valve	1	**SEE REF NO.	XP4400E-86
87	Gasoline engine, Whole set	1	DJ170FD-BD	XP4400E-87
88	Frame COMP	1	XP4400E-31100-B	XP4400E-88
89	Bottom Rubber A	2	DF2500H-31201-A	XP4400E-89
90	Bottom Rubber B	2	DF2500H-31202-A	XP4400E-90
91	Flange Nut M8	18	DBT6177-N-8	XP4400E-91
92	Flange Nut M6	4	GBT889-N-8	XP4400E-92
93	Cushion, Frame	4	**SEE REF NO.	XP4400E-93
94	Rubber Pad, Frame	2	DF2500H-14304-A	XP4400E-94
95	Earth Terminal Set	1	34107	XP4400E-95
96	Circuit Breaker	1	34206-100	XP4400E-96
97	Receptacle (30A)	1	34204-003	XP4400E-97
98	Receptacle (20A)	2	34204-005	XP4400E-98
99	DC Output Post	2	34204-038	XP4400E-99
100	Engine Switch	1	34203-002	XP4400E-100
101	Control Panel	1	XP4400E-34101-A	XP4400E-101
102	Sub Harness	1	34213-002	XP4400E-102
103	Voltage Option Switch	1	34202-006	XP4400E-103
104	Voltage Meter	1	34205-001	XP4400E-104
105	Diode ASSY	1	34210-001	XP4400E-105
106	Fuse	1	**SEE REF NO.	XP4400E-106
107	Control Panel Case	1	34102-A	XP4400E-107
108	Boot, Main Wire Harness	1	34109	XP4400E-108
109	Boot, AC Output Wire	1	34117	XP4400E-109
110	Wire Harness ASSY	1	34212-001	XP4400E-110
111	Battery	1	31300-001	XP4400E-111
112	Positive Wire, Battery	1	31038-001	XP4400E-112
113	Battery Cover	1	DF1800H-31033-A	XP4400E-113
114	Negative Wire, Battery	1	31040-001	XP4400E-114
115	Flange Bolt M5*12	2	GBT5789-B5-16	XP4400E-115
116	Alternator Cover	1	DF1800H-33006-B	XP4400E-116
117	Flange Bolt M6*125	4	DF3500H-33015-A	XP4400E-117
118	Supporting Stand	1	DF1800H-33005-A	XP4400E-118
119	Bolt M8*180	1	DF3500H-33003-A	XP4400E-119
120	Plain Washer φ10	1	GBT93-LW-8	XP4400E-120
121	Bearing 6204-2RS	1	GB276-89-6204	XP4400E-121
122	Rotator COMP	1	DF3500H-33110-B	XP4400E-122
123	Stator & Rotator ASSY	1	DF3000H33103-B-23602	XP4400E-123
124	Generator Fan	1	DF2500H-33023	XP4400E-124
125	Stator Cover	1	DF3500H-33129	XP4400E-125
126	Stator ASSY	1	DF3500H-33120	XP4400E-126
127	Stripe, Fuel Tank	1	DF2500H-14322-D	XP4400E-127
128	Fuel Tank	1	DF2500H-14300-B	XP4400E-128
129	Fuel Filter	1	14307	XP4400E-129

PartNo.	Article Name	Qty	Cross Reference	Reference No.
130	Cap	1	14306	XP4400E-130
131	Fuel Sensor	1	14303	XP4400E-131
132	Screw M5*10	2	GBT819-B-5	XP4400E-132
133	Gasket, Fuel Tank	1	14313	XP4400E-133
134	Washer	4	14311	XP4400E-134
135	Collar	4	14305	XP4400E-135
136	Cushion	4	14304	XP4400E-136
137	Outlet Pipe φ4.5*165	1	DF168FD-14007-C	XP4400E-137
138	Tube Clip	2	DJ168F-14008-A	XP4400E-138
139	Fuel Cock	1	DF2500H-14302-A	XP4400E-139
140	Handles	2	DF63800H-31058-C	XP4400E-140
141	Flange Bolt M8*16	17	GBT889-N-8X20	XP4400E-141
142	Muffler	1	DF2500H-14400-E	XP4400E-142
143	Muffler Gasket	1	DJ168F-14006-A	XP4400E-143
144	Exhaust Pipe COMP	1	DJF2500H-14009	XP4400E-144
145	Flange Bolt M8*25	2	GB5787-B-6	XP4400E-145
146	Exhaust Pipe Gasket	1	DJ188F-14010-A	XP4400E-146
147	Muffler Guard	1	DF2500H-14018-B	XP4400E-147
148	Muffler Stay	1	**SEE REF NO.	XP4400E-148
149	Supporting Plate	1	**SEE REF NO.	XP4400E-149
150	Wheel ASSY	1	XP4400E-WK	XP4400E-150
151	Pin	2	DF2500H-31019-B	XP4400E-151
152	Washer φ20	2	**SEE REF NO.	XP4400E-152
153	Wheel COMP	2	31017-F	XP4400E-153
154	Well Shaft	1	DF3000H-31018-F	XP4400E-154
155	Bracket	2	DF3000H-31070-E	XP4400E-155
156	Voltage Regulator	1	DF2500H-33011-A	XP4400E-156
157	Brush ASSY	1	DF3500H-33001	XP4400E-157
158	Circuit Protector (10A)	1	34208-004	XP4400E-158
159	Recharge Indicator	1	**SEE REF NO.	XP4400E-159
160	OC 12V Voltage Regulator	1	34224-001	XP4400E-160
161	Gas tube	1	**SEE REF NO.	XP4400E-161
162	Intake tube, carburetor	1	**SEE REF NO.	XP4400E-162
163	Pressure tube	1	**SEE REF NO.	XP4400E-163
164	Clip φ8	2	**SEE REF NO.	XP4400E-164

EXHIBIT 1011

I, David Raskin, hereby declare as follows:

I. INTRODUCTION

1. I am the Vice President and Chief Financial Officer of Imperial Industrial Supply Co. ("Imperial") (d/b/a DuroMax Power Equipment). References to "we," "us," or "our" in this declaration are intended to refer to Imperial. I have been employed at Imperial since April 2001. Before I became Vice President and Chief Financial Officer of Imperial in January 2015, I worked as the Vice President of Sales & Marketing for Imperial since April 2012, and before that, I worked as a Sales Manager for Imperial since 2004.

2. I am not being compensated for my testimony or involvement in this matter.

II. BACKGROUND

3. Prior to November 1, 2013 (and prior to November 1, 2012), Imperial manufactured and sold a dual-fuel generator product configured to run on both gasoline and propane fuels, known as the DuroMax Dual Fuel Hybrid XP4400EH ("the DuroMax Generator")

4. Prior to November 1, 2013 (and prior to November 1, 2012), Imperial created and publicly distributed marketing materials and product literature describing the structure, features, and functionality of the DuroMax Generator. The purpose of Imperial's marketing materials and product literature was to generate public interest in Imperial's products and inform the public about the features, capabilities, and operation of Imperial's products. Prior to November 1, 2013 (and prior to November 1, 2012), it was Imperial's standard business practice to make its marketing materials and product literature publicly accessible by posting its materials online and by distributing them to customers and potential customers. For example, operating manuals such as the manual of Exhibit D describing the DuroMax Generator could be obtained by a member of the public upon purchase of the DuroMax Generator or upon request to an Imperial employee.

During this period, it was Imperial's standard business practice to provide a copy of its operating manuals, including as set forth in Exhibit D, with the purchase of each DuroMax Generator.

5. On August 26, 2013, Imperial uploaded a video of the DuroMax Generator to its YouTube channel, DuroMax Power Equipment. The video of the DuroMax Generator is accessible at the following link: <https://www.youtube.com/watch?v=ZgKe9U4d7es>. The purpose of this video was to describe the features and functionality of the DuroMax Generator and to generate public interest in the DuroMax Generator product to drive sales. This video has remained publicly available on YouTube continuously since the video was uploaded on August 26, 2013.

III. AUTHENTICITY AND PUBLIC AVAILABILITY OF EXHIBIT A

6. Exhibit A is a screen capture of the DuroMax Generator product listing where customers could purchase the DuroMax Generator online prior to November 1, 2013 (and prior to November 1, 2012). Exhibit A is taken from the Internet Archive Wayback Machine, and as noted in the upper right-hand corner of the page, shows the publicly available DuroMax Generator product listing sale page, as it appeared on October 19, 2012. Exhibit A can be found at the following link:

<https://web.archive.org/web/20121019050958/http://www.maxtool.com:80/us/products/XP4400EH.asp?rt=2>

7. Like DuroMax Power Equipment, Max Tool is another brand of Imperial. Specifically, Max Tool was and is a retail store through which consumers can purchase various brands of tools and other products, including generators manufactured by Imperial, including the DuroMax Generator. Prior to November 1, 2013 (and prior to November 1, 2012) I was involved in operations and sales for Max Tool, in connection with my employment at Imperial.

8. Exhibit A is a page from the Max Tool website. Exhibit A truthfully and accurately portrays the DuroMax Generator product listing page on the Max Tool website, as it appeared prior to November 1, 2013 (and prior to November 1, 2012).

IV. AUTHENTICITY AND PUBLIC AVAILABILITY OF EXHIBIT B

9. Exhibit B is a screen capture of another listing of the DuroMax Generator product where customers could purchase the DuroMax Generator online prior to November 1, 2013 (and prior to November 1, 2012). Exhibit B is taken from the Internet Archive Wayback Machine, and as noted in the upper right-hand corner of the page, shows the publicly available DuroMax Generator product listing sale page, as it appeared on October 18, 2012. Exhibit B can be found at the following link:

<https://web.archive.org/web/20121018213424/http://www.generatorfactoryoutlet.com/gfo/products/XP4400EH.asp>

10. Exhibit B is a page from the Generator Factory Outlet website. Like DuroMax Power Equipment and Max Tool, Generator Factory Outlet is another brand of Imperial. Generator Factory Outlet was and is an online retailer through which Imperial sold the DuroMax Generator prior to November 1, 2013 (and prior to November 1, 2012).

11. Exhibit B truthfully and accurately portrays the DuroMax Generator product listing page on the Generator Factory Outlet website, as it appeared prior to November 1, 2013 (and prior to November 1, 2012).

V. AUTHENTICITY AND PUBLIC AVAILABILITY OF EXHIBIT C

12. Prior to November 1, 2013 (and prior to November 1, 2012), Imperial sold the DuroMax Generator through the Amazon.com online marketplace. Exhibit C shows recorded sales of the DuroMax Generator by Imperial under the brand "Max Tool" through Amazon.com.

13. As shown under the "purchase-date" column in Exhibit C, purchases recorded in Exhibit C range from October 23, 2012, to October 30, 2012. As shown under the "product-name" column, such sales recorded in Exhibit C were for the "DuroMax XP4400EH 4,400 Watt 7.0 HP Dual Fuel Propane / Gas Powered Portable Electric Start Generator."

14. I know this because Imperial's typical process of recording its sales from the online marketplace Amazon.com involved documenting the available purchase and status information of each Imperial product ordered using data received from Amazon.com. Recorded sales data for Imperial products, including the DuroMax Generator, were updated after each order was shipped or cancelled. Merchant data, order id, shipping status, order date, last updated date, and product name were all among the data regularly recorded. This process was Imperial's approach when recording sales from Amazon.com between October 23, 2012, and October 31, 2012.

15. The "last-updated-date" is the date that Imperial recorded the order of the DuroMax Generator as having been shipped to the customer. To best of my knowledge, all of these shipments would have been shipped through FedEx ground shipments. These FedEx ground shipments would have all been delivered to the customer between one and five days after shipping.

16. Exhibit C truthfully and accurately lists sales of the DuroMax Generator through Amazon.com prior to November 1, 2012 (and therefore prior to November 1, 2013). Each of these sales would have included a copy of Exhibit D, the DuroMax Generator Operator's Manual. My recollection is that we made additional sales of the DuroMax Generator through other sales platforms prior to November 1, 2012 (and that we made additional sales of the DuroMax Generator through Amazon and other sales platforms prior to November 1, 2013).

VI. AUTHENTICITY AND PUBLIC AVAILABILITY OF EXHIBIT D

17. Exhibit D is a true and correct copy of the DuroMax Generator XP4400EH Operator's Manual.

18. As shown below, Imperial created Exhibit D at least as early as June 27, 2012. This is reflected in the screenshot of the Exhibit D document metadata depicted in Exhibit E. Exhibit D was publicly distributed to customers of the DuroMax Generator and members of the public prior to November 1, 2013 (and prior to November 1, 2012). For example, Exhibit D was distributed at least to customers in connection with the sales recorded in Exhibit C.

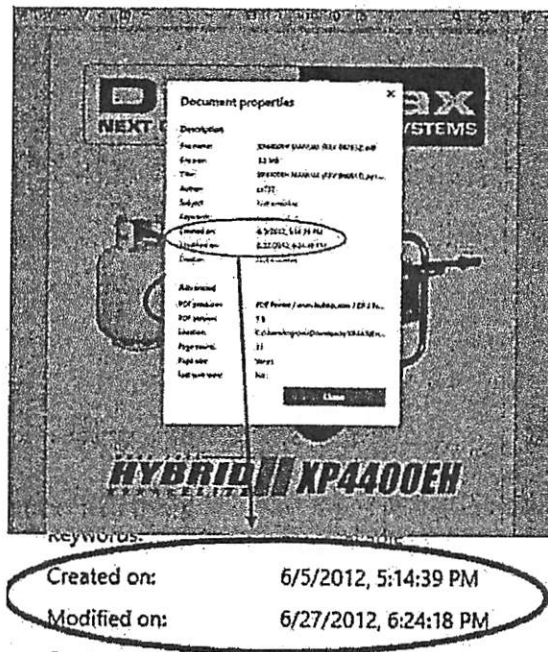


Exhibit E (annotated).

19. Prior to November 1, 2013 (and prior to November 1, 2012) it was Imperial's standard business practice to provide a copy of the operator's manual of Exhibit D to customers with the purchase of the DuroMax Generator by including a paper copy of the operator's manual of Exhibit D in the product packaging of the DuroMax Generator. The operator's manual of

Exhibit D could be obtained by a member of the public upon purchase of the DuroMax Generator or upon request to an Imperial employee.

20. Exhibit D truthfully and accurately portrays and describes the components and assembly of the DuroMax Generator.

21. Exhibit E truthfully and accurately reflects the document metadata, including the dates of creation and last modification, of Exhibit D.

VII. AUTHENTICITY AND PUBLIC AVAILABILITY OF EXHIBIT F

22. Exhibit F is a true and correct copy of a marketing brochure describing the DuroMax Generator.

23. Prior to November 1, 2013, it was Imperial's standard business practice to provide marketing materials, such as Exhibit F, to members of the public who were interested in buying or learning more about its products.

24. Prior to November 1, 2013, Exhibit F was publicly distributed by Imperial employees to members of the public who were interested in buying or learning more about its products.

25. As shown below, Imperial created Exhibit F at least as early as May 17, 2013. This is reflected in the screenshot of the Exhibit F document metadata of Exhibit G.

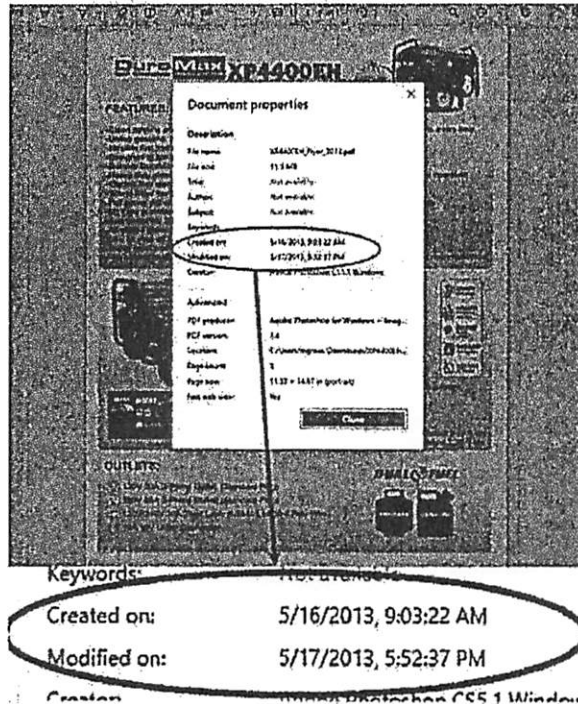


Exhibit G (annotated).

26. Exhibit F truthfully and accurately portrays and describes the characteristics and functionality of the DuroMax Generator as of the date that the brochure was created.

27. Exhibit G truthfully and accurately reflects the document metadata, including the dates of creation and last modification, of Exhibit F.

VIII. AUTHENTICITY AND PUBLIC AVAILABILITY OF EXHIBIT H

28. Exhibit H is a true and correct copy of the Certificate of Conformity with the Clean Air Act from the Environmental Protection Agency for the engine used in the DuroMax Generator, dated February 27, 2013.

IX. AUTHENTICITY AND PUBLIC AVAILABILITY OF EXHIBIT I

29. Exhibit I is a true and correct copy of the DuroMax Generator XP4400EH 2013 Operator's Manual.

30. As shown below, Imperial created Exhibit I at least as early as August 23, 2013. This is reflected in the screenshot of the Exhibit I document metadata depicted in Exhibit J. Exhibit I was publicly distributed to customers of the DuroMax Generator and members of the public after August 23, 2013 and prior to November 1, 2013 (and prior to June 12, 2014).

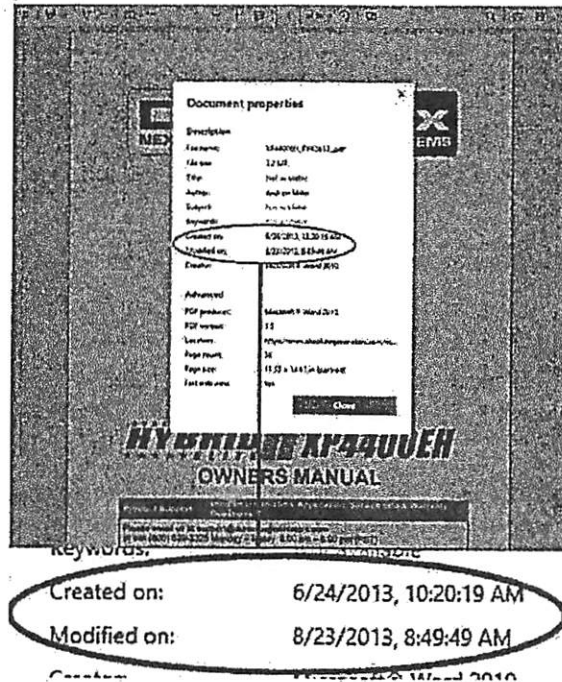


Exhibit J (annotated).

31. The operator's manual of Exhibit I was distributed to dealers and those who requested a copy of the manual. The recipients of the operator's manual were free to post copies of the manual online. For example, Exhibit I appears to have been posted online by Absolute Generators, a dealer of the DuraMax Generator, at least as early as November 4, 2014, as shown below at the following URL link:

https://www.google.com/search?q=Duromax+XP4400EH+dual+fuel+generator+manual&scas=v=9d62b89f1e8f3e7d&tbs=cdr%3A1%2Ccd_min%3A1%2F1%2F2011%2Ccd_max%3A12%2F31%2F2015&sxsrf=AHTn8zrWVUE73y3h2uL2YlnMiX0nuxffeg%3A1745506300936&ei=E8

[KaPfxOIjsptQP NSK2AQ&ved=0ahUKEWj335TY9fCMAxUItokEHXyqAksQ4dUDCBI&uact=5&oq=Duromax+XP4400EH+dual+fuel+generator+manual&gs_l=Egxnd3Mtd2l6LXNlcjA0R1cm9tYXggWFA0NDAwRUggZHVhbCBmdWVsIGdlbmVyYXRvcjBtYW51YWwyBBAjGCcyBBAjGCcyBBAjGCcyBRAAGO8FMggQABiABBiiBDIIEAAAYgAOYogQyCBAAGIAEGKIEMggQABiABBiiBEjDCVDeB1jeB3ACeACQAQCYAWGgAWGqAQExuAEDyAEA-AEBmAIDoAJvwgIIEAAAYsAMY7wXCAGsQABiABBiwAxiiBJgDAIgGAZAGBZIHazluMaAHiQuyBwMwLjG4B2Y&scient=gws-wiz-serp.](https://www.google.com/search?q=DuroMax+XP4400EH+dual+fuel+generator+manual&gs_l=Egxnd3Mtd2l6LXNlcjA0R1cm9tYXggWFA0NDAwRUggZHVhbCBmdWVsIGdlbmVyYXRvcjBtYW51YWwyBBAjGCcyBBAjGCcyBBAjGCcyBRAAGO8FMggQABiABBiiBDIIEAAAYgAOYogQyCBAAGIAEGKIEMggQABiABBiiBEjDCVDeB1jeB3ACeACQAQCYAWGgAWGqAQExuAEDyAEA-AEBmAIDoAJvwgIIEAAAYsAMY7wXCAGsQABiABBiwAxiiBJgDAIgGAZAGBZIHazluMaAHiQuyBwMwLjG4B2Y&scient=gws-wiz-serp)

Google X | ↓ | ↻ | 🔍

All Shopping Videos Images Short videos Forums Web ! More

 **Absolute Generators**
https://www.absolutegenerators.com/bifa_files/PDF PDF

OWNERS MANUAL
 Nov 4, 2014 - Never store generator for extended periods of time with fuel in the tank. Model #. XP4400EH. Gas Tank Capacity 3.95 US Gallons (15L). Figure 4 - Gas Tank ...
 36 pages

Videos 1

 **DuroMax Generator How-To Guide: Assemble, Start, and Run ...**
 YouTube · DuroMax Power Equipment
 Oct 2, 2014

5 key moments in this video

				
From 00:27 Removing the Packing brace	From 00:50 Installing the wheel Kit	From 01:42 Hooking up the Battery	From 02:07 Adding Oil	From 02:52 Adding Fuel

 **DuroMax XP4400E Planta eléctrica o Generador a Gasolina**
 YouTube · Emmanuel Jimenez
 Jan 23, 2013

Feedback

32. Prior to November 1, 2013 (and prior to June 12, 2014), it was Imperial's standard business practice to provide a copy of the latest version of its operator's manual for a particular product to the customer when it made a sale of that product. For example, after the creation of Exhibit I and prior to November 1, 2013 (and prior to June 12, 2014), it was

Imperial's standard business practice to provide a copy of Exhibit I to customers with the purchase of the DuroMax Generator by including a paper copy of the operator's manual of Exhibit I in the product packaging of each DuroMax Generator. The operator's manual of Exhibit I could be obtained by a member of the public upon purchase of the DuroMax Generator or upon request to an Imperial employee. It was also Imperial's standard business practice to provide the latest copy of the operator's manual to its dealers. For example, Imperial's standard practice was to provide dealers selling the DuroMax Generator the latest copy of the operator's manual. Those dealers were free to publicly distribute these manuals or post them online.

33. Exhibit I truthfully and accurately portrays and describes the components and assembly of the DuroMax Generator.

34. Exhibit J truthfully and accurately reflects the document metadata, including the dates of creation and last modification, of Exhibit I.

X. CERTIFICATION

35. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001. I also declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Signature: 

Name: David Raskin

Title: Vice President and Chief Financial Officer, Imperial Industrial Supply Co.

Date: 5-07-25

EXHIBIT A



| Home | View Cart | Site Map |

Search

Go!

Your #1 site for the lowest prices on name brand tools and equipment!

FREE SHIPPING ON ORDERS OVER \$25 OR MORE.

DuroMax Dual Fuel 4,400 Watt Hybrid Propane/Gasoline Portable Generator With Wheel Kit And Electric Start

Item Number:
XP4400EH

Qty:

1

Regular Price

~~\$649.99~~

Sale Price:

\$499.99

Free Shipping

ADD TO CART

Enlarge

Bookmark & Share



TANK NOT INCLUDED



Description

As global energy consumption grows at exponential rates, so does the demand for energy solutions that are both more environmentally responsible and more efficient. The DuroMax XP4400EH has a dual fuel system that operates on either standard gasoline or cleaner burning liquid propane which can more than double you generator's run time.

With the XP4400EH, operating on propane will not gum up or foul your generator's carburetor, and will give you quick, reliable starts every time. It only takes a few seconds to switch over from regular gas to propane, and with the flexible line, you can easily hook up any size propane tank including the one from your barbeque. Unlike gasoline, propane can be stored for years without going bad.

FEATURES

- Clean running propane will not gum up or foul the carburetor for quick and reliable starts every time.
- Unlike gasoline, liquid propane can be stored for years.
- Flexible line allows for connecting to tanks of any size.
- Designed to run on gasoline or propane for maximum convenience.
- Durable DuroStar 7.0 Hp, air cooled with low oil shutoff.
- Heavy duty steel frame with four point fully isolated motor mounts for smooth and quiet operation.
- Electric Key Start for easy starting when you need it.
- Wheel kit w/ front handle for easy transporting.
- Full power panel with engine shutoff switch, volt meter, circuit breaker and power outlets.
- (2) Fully protected 120V outlets & (1) 120V/240V twist-lock outlet.
- Approximately 20 Hours run time (propane) 8 Hours run time (gasoline)
- All steel 4 gal. fuel tank with ez-read gauge.
- Low oil shut-off protects engine.
- Super quiet muffler reduces engine noise.
- Idle control holds RPM at a constant level even under heavy loads for fuel savings and noise reduction

Runs both gasoline and propane

Full featured power panel

SPECIFICATIONS

Quick Cart

Proceed to Checkout

Welcome, Shopper

Subtotal: \$0.00

Check Out



VeriSign SSL for secure shopping.
Items in Your Cart

Need Answers?



24 HOURS A DAY
Talk to a Real Person
(Se Habla Español)
Call Toll Free
1-800-629-3325

Now Accepting and Amazon Checkout

MAX
Free Shipping on
Orders Over \$25 or
More.
More Info



Order Online or Call
1-800-629-3325

Featured Products

- iRobot Vacuums
- Home Entertainment Great Gift Ideas
- Electric Fireplaces & Log Sets
- Makita Power Tools
- Dewalt Power Tools
- Porter-Cable
- Ingersoll-Rand Tools

Product Categories

- Generators
- Air Compressors
- Tarps & Canopies
- Gloves
- Safety Products
- Shop Tools & Equipment
- Hand Tools
- Wood & Metal Working Accessories
- Construction Products
- Abrasives
- Rangear & Boots
- Power Cords, Work Lights & Light Bulbs

- Contact Us
- Support

Order Online or
Call 1-800-629-3325
For Sales Outside the
US Order Online or
Call 909-568-2800

- Max AC Output: 4400 watts
- Rated AC Output: 3500 watts
- Current (120V/240VAC & 12VDC)
- 2) 120v 20A 3-prong outlets
(Standard Household plug)
- 120v/240v 30A twist lock
(NEMA L14-30 3 Pole 4 Wire)
- Low oil shutoff.
- EPA approved engines.
- Super quiet exhaust w/ built-in spark arrestor.
- Electric Key and EZ-Pull Recoil start.
- 7.0 Hp air cooled engine
- Fuel Tank Capacity: 4 gal
- Decibel: 69 dBA
- Gasoline Run-Time [@ 50% Max Output]: 8.0 hrs
- Propane Run-Time [@ 50% Max Output]: 20.0 hrs

All-terrain never flat tires



Flip-up stow away handles

INCLUDES

- New improved all-terrain never flat tires.
- Flip-Up stow away Handles.
- Spark plug wrench

WARRANTY

- 1 Year Full Parts Warranty
- 30 Day Replacement Warranty

**** This Generator Can Not Be Shipped to California ****

- Shipping Weight: 132.00 lbs.

Regular Price \$649.99		Qty:
Item Number:	Sale Price:	
XP4400EH	\$499.99	1
Free Shipping		
ADD TO CART		CHECKOUT

Search

[View Cart](#) | [Contact Us](#) | [Policies](#)



United States: 1-800-629-3325 Outside U.S.: (909) 568-2800
Copyright © 2012 Max Tool, All rights reserved.
All logos are trademarks of their respected owners.

EXHIBIT B

GENERATOR FACTORY OUTLET

Home | About Us | Contact Us

Search

SHOP BY BRAND SHOP BY PRICE SHOP BY WATTS SHOP BY USAGE ACCESSORIES

**IN STOCK
READY TO SHIP**

Click to See
All Models

MAILING LIST

Enjoy special offers that only
our subscribers will receive

Free & Easy To Sign Up

Type Email Address

SUBMIT

Category

- Gasoline Generators
- Diesel Generators
- Propane Generators
- Digital Generators
- Welding Generators

Brands

- DuroMax
- DuroMax Elite Series
- DuroStar
- All Power
- Reliance Controls

Accessories

- Gasoline Caddies
- Gasoline Powered Engines
- Gasoline Powered Water Pumps
- Wheel Kits
- RV Adapters
- Indoor Transfer Switches
- Outdoor Transfer Switches
- Inlet Boxes
- Power Cords
- Covers

BE A NEIGHBORHOOD HERO

BUY BIG
SAVE BIG
**PALLET
DISCOUNT
PROGRAM**

IN A NATURAL DISASTER A RELIABLE
WORKING GENERATOR IS WORTH
ITS WEIGHT IN GOLD.



DuroMax Dual Fuel 4,400 Watt Hybrid Propane/Gasoline Portable Generator With Wheel Kit And Electric Start



Item Number:
XP4400EH

Regular Price

\$649.99

Sale Price:

\$499.99

Qty: 1

Free Shipping

Instock

ADD TO CART

WARRANTY
INFORMATION



Description

Customer Reviews

made it here THIS IS A 404 PAGE which means that the page you went to does not exist.

As global energy consumption grows at exponential rates, so does the demand for energy solutions that are both more environmentally responsible and more efficient. The DuroMax XP4400EH has a dual fuel system that operates on either standard gasoline or cleaner burning liquid propane which can more than double you generator's run time.

With the XP4400EH, operating on propane will not gum up or foul your generator's carburetor, and will give you quick, reliable starts every time. It only takes a few seconds to switch over from regular gas to propane, and with the flexible line, you can easily hook up any size propane tank including the one from your barbecue. Unlike gasoline, propane can be stored for years without going bad.

FEATURES

- Clean running propane will not gum up or foul the carburetor for quick and reliable starts every time.
- Unlike gasoline, liquid propane can be stored for years.
- Flexible line allows for connecting to tanks of any size.
- Designed to run on gasoline or propane for maximum convenience.
- Durable DuroStar 7.0 Hp, air cooled with low oil shutoff.
- Heavy duty steel frame with four point fully isolated motor mounts for smooth and quiet operation.
- Electric Key Start for easy starting when you need it.
- Wheel kit w/ front handle for easy transporting.
- Full power panel with engine shutoff switch, volt meter, circuit breaker and power outlets.
- (2) Fully protected 120V outlets & (1) 120V/240V twist-lock outlet.
- Approximately 20 Hours run time (propane) 8 Hours run time (gasoline)
- All steel 4 gal. fuel tank with ez-read gauge.
- Low oil shut-off protects engine.
- Super quiet muffler reduces engine noise.
- Idle control holds RPM at a constant level even under heavy loads for fuel savings and noise reduction

SPECIFICATIONS

- Max AC Output: 4400 watts
- Rated AC Output: 3500 watts
- Current (120V/240VAC & 12VDC)
- 2) 120v 20A 3-prong outlets (Standard Household plug)
- 120v/240v 30A twist lock (NEMA L14-30 3 Pole 4 Wire)

Runs both gasoline and propane

Full featured power panel

Quick Cart

Proceed to Checkout

Welcome, Shopper

Want a Free Catalog? Click Here:

Subtotal: \$0.00

Check Out

SECURE
networksolutions

Items in Your Cart

Need Answers?

**24
HOURS
A DAY** Talk to a
Real Person
(Se Habla Español)
Call Toll Free
1-800-629-4329

Its Never Been EASIER to Pay!

EASY CHECKOUT WITH
amazon.com PayPal

All Major Debit &
Credit Cards
Accepted

>> Click For More Info

- Low oil shutoff.
- EPA approved engines.
- Super quiet exhaust w/ built-in spark arrestor.
- Electric Key and EZ-Pull Recoil start.
- 7.0 Hp air cooled engine
- Fuel Tank Capacity: 4 gal
- Decibel: 69 dBA
- Gasoline Run-Time [@ 50% Max Output]: 8.0 hrs
- Propane Run-Time [@ 50% Max Output]: 20.0 hrs

INCLUDES

- New improved all-terrain never flat tires.
- Flip-Up stow away Handles.
- Spark plug wrench

WARRANTY

- 1 Year Full Parts Warranty
- 30 Day Replacement Warranty

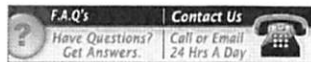
**** This Generator Can Not Be Shipped to California ****

made it here THIS IS A 404 PAGE which means that the page you went to does not exist.
• Shipping Weight: 132.00 lbs.

Item Number: XP4400EH	Regular Price \$649.99	Sale Price: \$499.99	Qty: <input type="text" value="1"/>
Instock ADD TO CART CHECKOUT			

Portable Generators You Can Count On.

Search



[View Cart](#) | [About Us](#) | [Warranty](#) | [Policy](#) | [Security & Privacy](#) | [Site Map](#)



United States: 1-800-629-4329 Outside U.S.: (809) 668-2800
Copyright © 2012 - Portable Generator - Gas Generator - Generator Factory Outlet
All Rights Reserved.
All logos are trademarks of their respected owners.



EXHIBIT C

amazon-order-id	merchant-order-id	purchase-date	last-updated-date	order-status	fulfillment-channel
104-2044759-7309838	8593014	2012-10-26T03:12:41+00:00	2012-10-27T00:40:20+00:00	Shipped	Merchant
102-5578407-4282668	8593816	2012-10-26T20:15:45+00:00	2012-10-27T19:40:24+00:00	Shipped	Merchant
105-3132342-6193801		2012-10-26T19:20:46+00:00	2012-10-26T19:31:02+00:00	Cancelled	Merchant
104-0334290-5502625	8594330	2012-10-27T03:19:41+00:00	2012-10-30T20:40:15+00:00	Shipped	Merchant
105-0017813-8690651	8593385	2012-10-26T15:52:48+00:00	2012-10-27T19:40:02+00:00	Shipped	Merchant
002-8172801-0157003	8592955	2012-10-26T01:30:12+00:00	2012-10-27T00:40:18+00:00	Shipped	Merchant
103-1874923-5023465	8595860	2012-10-28T13:14:26+00:00	2012-10-30T17:41:21+00:00	Shipped	Merchant
104-8752092-9107440	8592644	2012-10-25T17:29:32+00:00	2012-10-26T01:40:00+00:00	Shipped	Merchant
105-3629942-4905016	8593489	2012-10-26T14:56:37+00:00	2012-10-27T19:40:09+00:00	Shipped	Merchant
104-0224537-3849874	8593390	2012-10-26T13:02:33+00:00	2012-10-27T19:40:04+00:00	Shipped	Merchant
103-5427570-7073051	8595187	2012-10-27T19:55:58+00:00	2012-10-30T20:40:22+00:00	Shipped	Merchant
105-8646890-0753847	8593894	2012-10-26T21:13:36+00:00	2012-10-30T20:40:08+00:00	Shipped	Merchant
102-9238418-3228204	8592741	2012-10-25T20:45:04+00:00	2012-10-29T20:40:04+00:00	Shipped	Merchant
103-8300809-8932231	8592742	2012-10-25T20:40:25+00:00	2012-10-29T20:40:03+00:00	Shipped	Merchant
103-3190369-2581820	8591182	2012-10-23T01:10:30+00:00	2012-10-24T01:39:52+00:00	Shipped	Merchant
105-8758783-7303450	8596018	2012-10-28T15:20:09+00:00	2012-10-31T01:40:10+00:00	Shipped	Merchant
102-8567768-9793847	8595641	2012-10-28T03:50:08+00:00	2012-10-30T20:40:25+00:00	Shipped	Merchant
105-2639185-8837865	8593149	2012-10-26T11:11:09+00:00	2012-10-27T00:40:25+00:00	Shipped	Merchant
002-7677017-2854638	8593739	2012-10-26T19:12:45+00:00	2012-10-27T19:40:21+00:00	Shipped	Merchant
103-4436688-0054619	8593373	2012-10-26T16:23:14+00:00	2012-10-27T19:39:59+00:00	Shipped	Merchant
102-8171983-3103457	8595277	2012-10-27T21:15:20+00:00	2012-10-30T17:41:21+00:00	Shipped	Merchant
002-8284714-0345032	8591510	2012-10-23T15:40:45+00:00	2012-10-24T01:39:51+00:00	Shipped	Merchant
105-7969300-5021051	8592929	2012-10-26T01:05:16+00:00	2012-10-27T00:40:21+00:00	Shipped	Merchant
103-9222814-3896218	8594317	2012-10-27T03:19:09+00:00	2012-10-30T20:40:16+00:00	Shipped	Merchant
105-6640634-0651422	8593417	2012-10-26T16:41:08+00:00	2012-10-27T19:40:02+00:00	Shipped	Merchant
104-0062955-0790671	8594137	2012-10-27T00:19:36+00:00	2012-10-30T20:40:14+00:00	Shipped	Merchant
103-1551135-1927418	8595554	2012-10-28T01:48:52+00:00	2012-10-30T17:41:21+00:00	Shipped	Merchant
104-1854894-6366640	8594940	2012-10-27T17:06:28+00:00	2012-10-30T17:41:18+00:00	Shipped	Merchant
102-5445500-9751407		2012-10-26T19:51:55+00:00	2012-10-26T19:52:41+00:00	Cancelled	Merchant
102-7682321-6797803		2012-10-25T20:30:16+00:00	2012-10-25T20:34:48+00:00	Cancelled	Merchant
103-8548071-2349014	8596000	2012-10-28T14:53:57+00:00	2012-10-31T01:40:08+00:00	Shipped	Merchant
103-6624779-9401813	8595158	2012-10-27T19:37:22+00:00	2012-10-30T17:41:18+00:00	Shipped	Merchant

102-5509228-4613039	8592806	2012-10-25T22:15:11+00:00	2012-10-29T20:40:04+00:00	Shipped	Merchant
105-7797171-9171401	8593837	2012-10-26T20:28:57+00:00	2012-10-27T19:54:02+00:00	Cancelled	Merchant
102-3136609-8821055	8594236	2012-10-27T02:20:12+00:00	2012-10-30T20:40:13+00:00	Shipped	Merchant
103-4363804-9976257		2012-10-26T20:52:36+00:00	2012-10-26T22:56:34+00:00	Cancelled	Merchant
102-0882298-3480224	8593180	2012-10-26T12:20:41+00:00	2012-10-27T00:40:26+00:00	Shipped	Merchant

Amazon.com
Amazon.com
Amazon.com
Amazon.com
Amazon.com

Standard
Standard
Standard
Standard
Standard

[illegible]

DuroMax XP4400EH 4,400 Watt 7.0 HP Dual Fuel Propane / Gas Powered Portable Electric Start Generator	XP4400EH	B009RBKGZC
DuroMax XP4400EH 4,400 Watt 7.0 HP Dual Fuel Propane / Gas Powered Portable Electric Start Generator	XP4400EH	B009RBKGZC
DuroMax XP4400EH 4,400 Watt 7.0 HP Dual Fuel Propane / Gas Powered Portable Electric Start Generator	XP4400EH	B009RBKGZC
DuroMax XP4400EH 4,400 Watt 7.0 HP Dual Fuel Propane / Gas Powered Portable Electric Start Generator	XP4400EH	B009RBKGZC
DuroMax XP4400EH 4,400 Watt 7.0 HP Dual Fuel Propane / Gas Powered Portable Electric Start Generator	XP4400EH	B009RBKGZC

item-status	quantity	currency	item-price	item-tax	shipping-price	shipping-tax	gift-wrap-price	gift-wrap-tax	item-promotion-discount
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	499.99		0		0		
	0								
Shipped	1	USD	599.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	649.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	649.99		0		0		
Shipped	1	USD	599.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	649.99		0		0		
Shipped	1	USD	649.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	649.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	599.99		0		0		
Shipped	1	USD	499.99		0		0		
Shipped	1	USD	599.99		0		0		
Shipped	1	USD	649.99		0		0		
Shipped	1	USD	599.99		0		0		
	0								
	0								
Shipped	1	USD	649.99		0		0		
Shipped	1	USD	649.99		0		0		

Shipped	1	USD	499.99	0	0
	0				
Shipped	1	USD	599.99	0	0
	0	USD	499.99	0	0
Shipped	1	USD	499.99	0	0

[illegible]

FALSE
FALSE
FALSE
FALSE
FALSE

price-designation	is-replacement-order
-------------------	----------------------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

	FALSE
--	-------

FALSE
FALSE
FALSE
FALSE
FALSE

EXHIBIT D

Duro
NEXT GENERATION

Max
POWER SYSTEMS

DUAL FUEL



DUAL FUEL
HYBRID XP4400EH
★★★★★ **ELITE**

Product Support (Product: information, application, service info & warranty questions)

Please email us at support@duromaxgenerators.com

or call 1-800-629-3325 (option 3) Monday -Thursday 6am to 6:30pm and Fridays 6am to 5pm. PST

This manual provides information regarding the operation and maintenance of these products.

We have made every effort to ensure the accuracy of the information in this manual.

We reserve the right to change this product at any time without prior notice.

FEATURES

- **Dual Fuel Option, LPG or Gasoline.**
- **Durable 7.0 HP, Air Cooled Overhead Valve Engine.**
- **Heavy Duty Steel Frame with Four Point Fully Isolated Motor Mounts for Smooth and Quiet Operation.**
- **Wheel and Handle Kit for Easy Transporting.**
- **Full Power Panel with Engine Shutoff Switch, Volt Meter, Circuit Breaker and Power Outlets.**
- **(2) Fully Protected 120V Outlets & (1) 120V/240V Twist-Lock Outlet.**
- **8 Hour Run Time.**
- **All Steel 4.0 Gal. Fuel Tank with EZ-Read Gauge.**
- **Low Oil Shut-Off Protects Engine.**
- **Super Quiet Muffler Reduces Engine Noise.**
- **Meets EPA and CARB Emission Standards.**

This manual provides information regarding the operation and maintenance of these products. We have made every effort to ensure the accuracy of the information in this manual. We reserve the right to change this product at any time without prior notice.

Notice Regarding Emissions

Engines that are certified to comply with California and U.S. EPA emission regulations for SORE (Small Off Road Equipment), are certified to operate on regular unleaded gasoline, and may include the following emission control systems: (EM) Engine Modifications and (TWC) Three-Way Catalyst (if so equipped).

GENERAL SAFETY PROCEDURES

Please familiarize yourself with the following safety symbols and words:

The safety alert symbol  is used with one of the safety words (**DANGER**, **CAUTION**, or **WARNING**) to alert you to hazards. Please pay attention to these hazard notices both in this manual and on the generator.

DANGER: Indicates a hazard that will result in serious injury or death if instructions are not followed.

WARNING: Indicates a strong possibility of causing serious injury or death if instructions are not followed.

CAUTION: Indicates a possibility of personal injury or equipment damage if instructions are not followed.

 DANGER: This generator produces poisonous carbon monoxide gas when running. This gas is both odorless and colorless. Even if you do not see or smell gas, carbon monoxide may still be present. Breathing this poison can lead to headaches, dizziness, drowsiness, and eventually death.

- Use outdoors **ONLY** in non-confined areas.
- Keep several feet of clearance on all sides to allow proper ventilation of the generator.

 WARNING: The exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

 WARNING: This generator may emit highly flammable and explosive gasoline vapors, which can cause severe burns or even death. A nearby open flame can lead to explosion even if not directly in contact with gas.

- Do not operate near open flame.
- Do not smoke near generator.
- Always operate on a firm, level surface.
- Always turn generator off before refueling. Allow generator to cool for at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Do not overfill gas tank. Gas may expand during operation. Do not fill to the top of the tank.
- Always check for spilled gas before operating.
- Empty the gasoline tank before storing or transporting the generator.
- Before transporting, turn fuel valve to off and disconnect the spark plug.

⚠ WARNING: This generator produces powerful voltage, which can result in electrocution.

- ALWAYS ground the generator before using it (see the "Grounding the Generator" portion of the *"PREPARING THE GENERATOR FOR USE"* section).
- Generator should only be plugged into electrical devices, either directly or with an extension cord. NEVER connect to a building electrical system without a qualified electrician. Such connections must comply with local electrical laws and codes. Failure to comply can create a backflow of power, which may result in serious injury or death to utility workers.
- Use a ground fault circuit interrupter (GFCI) in highly conductive areas such as metal decking or steel work. GFCIs are available in-line with some extension cords.
- Do not use uncovered in rainy or wet conditions.
- Do not touch bare wires or receptacles (outlets).
- Do not allow children or non-qualified persons to operate.

⚠ WARNING: This generator produces heat when running. Temperatures near exhaust can exceed 150°F (65°C).

- Do not touch hot surfaces. Pay attention to warning labels on the generator denoting hot parts of the machine.
- Allow generator to cool several minutes after use before touching engine or areas which heat during use.

CAUTION: Misuse of this generator can damage it or shorten its life.

- Use the generator only for its intended purposes.
- Operate only on dry, level surfaces.
- Allow generator to run for 3 - 5 minutes before connecting any electrical devices.
- Shut off and disconnect any malfunctioning devices from generator.
- Do not exceed the Wattage capacity of the generator by plugging in more electrical devices than the unit can handle (see *"PRECAUTIONS-OVERLOADING THE GENERATOR"*).
- Do not turn on electrical devices until after they are connected to the generator.
- Turn off all connected electrical devices, and turn off the breaker, before stopping the generator.

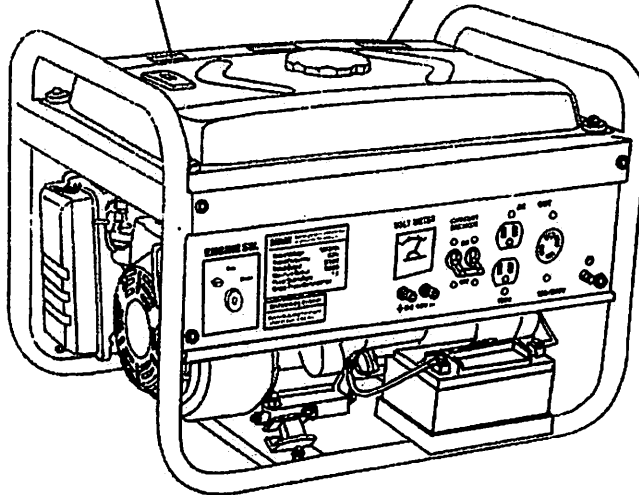
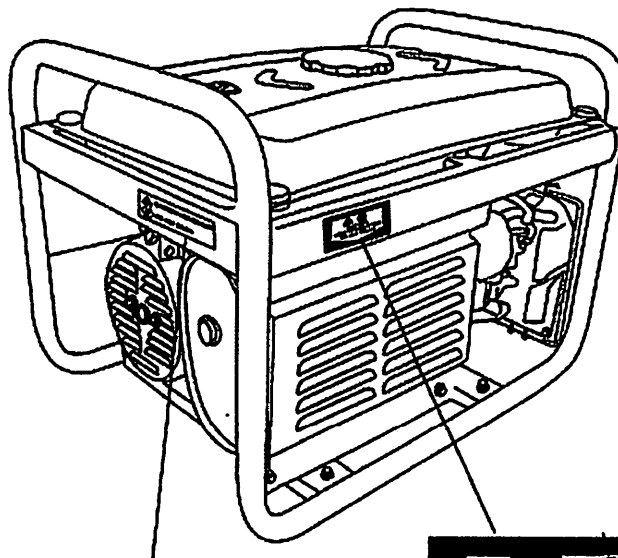
In addition to the above safety notices, please familiarize yourself with the safety and hazard markings on the generator.

CAUTION! POISONOUS GAS

Generator exhaust contains toxic carbon monoxide gas. NEVER operate indoors or in poorly ventilated areas.

WARNING! RISK OF EXPLOSION

- Stop generator before refueling.
- Check for spilled fuel.
- Do not operate near open flame.



CAUTION! HOT EXHAUST

DO NOT TOUCH

CAUTION! HIGH TEMPERATURE DO NOT TOUCH

PACKAGE CONTENTS

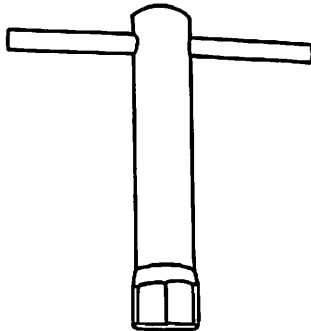
Your generator comes with the items listed below. Please check to see that all of the following items are included with your generator.



Screw driver



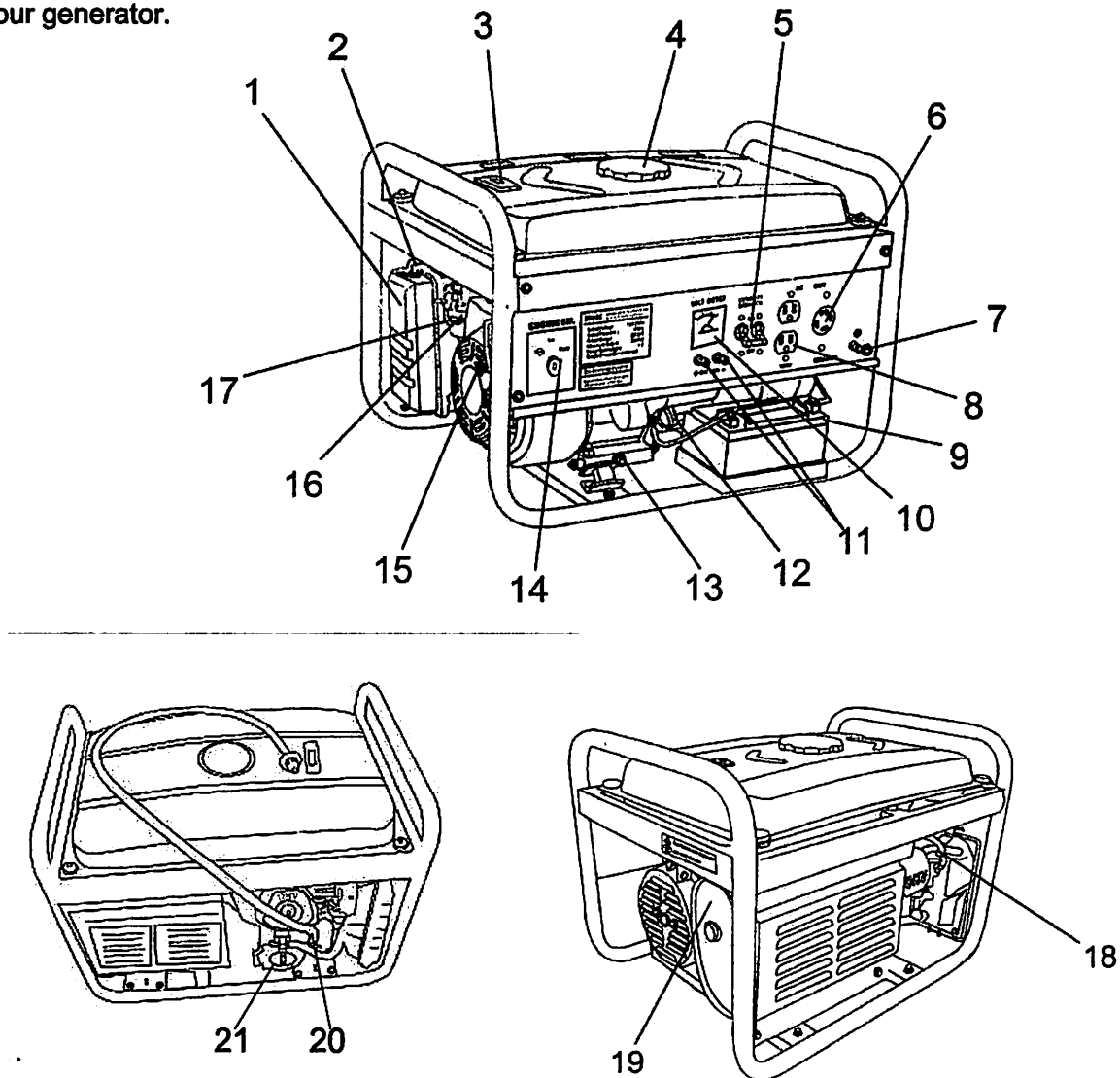
Spanner



Spark plug wrench

GENERATOR COMPONENTS

Please familiarize yourself with the locations and functions of the various components and controls of your generator.



1. **Air cleaner** - a removable, cleanable, sponge-like element that limits the amount of dirt pulled into the engine.
2. **Choke lever** - Adjusts the amount of air let into the engine.
3. **Fuel Gauge** - Indicates the amount of fuel in the tank.
4. **Fuel Cap** - Access to the fuel tank for adding fuel.
5. **Circuit Breaker** - Reset switch that protects the generator from electrical overload.
6. **120/ 240 Volt AC Receptacle** - Use to connect electrical devices that run 120 and/or 240 Volt, 60Hz, single phase, AC current (NEMA L14-30).
7. **Ground Terminal** - Connect grounding wires here to properly ground unit.
8. **120 Volt AC Receptacle** - Use to connect electrical devices that run 120 Volt, 60 Hz, single phase, AC current (2×duplex GFCI).
9. **12V DC Battery.**
10. **Volt Meter** - Provides reading of voltage output.
11. **12v DC Receptacle**- Use for charging 12 Volt automotive-type batteries only.

12. **Oil Filler Cap**- Use to Add oil or checking the oil.
13. **Oil Fill and Dipstick**- Location for checking and filling engine oil.
14. **Engine Switch**- Used to start/stop engine.
15. **Recoil Starter**- Pull-cord for starting engine.
16. **Fuel Filter Cup**- Traps dirt and water from fuel before it enters the engine.
17. **Fuel valve**- Allows fuel to enter engine.
18. **Spark plug**- Provides proper engine ignition.
19. **Muffler**- Reduces engine noise.
20. **Hose connector**- Connect liquid propane gas to generator.
21. **Pressure Release Valve**- Provides regulated liquid propane gas supply.

PREPARING THE GENERATOR FOR USE

Using the Generator for the First Time

If you are using the generator for the first time, there are a few steps you must take to prepare it for operation.

Step 1 - Add oil

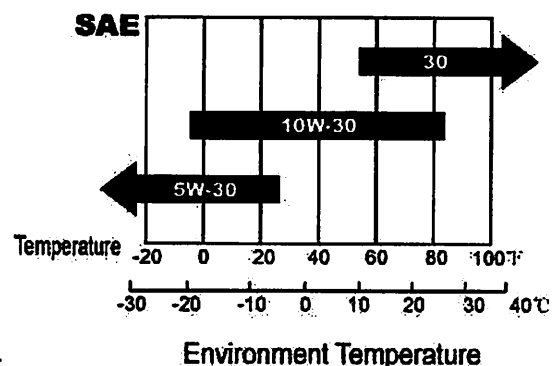
The generator requires engine oil to operate properly. The generator, when new from the package, contains no oil in the crankcase. You must add the proper amount of oil before operating the generator for the first time. This amount, which is equal to the oil capacity of the engine crankcase, can be found on the chart in *figure 1*. When filling the engine with oil in the future, please refer to this chart.

<i>Model number</i>	XP4400H	XP4400EH
<i>Engine oil capacity</i>	20 fluid oz.	

Figure 1- Generator Oil Capacity

CAUTION:

- **Do not apply engine oil with additives or 2-stroke gasoline engine oil**, as they haven't enough lubrication, which may shorten the engine's service life.
- **Engine oil recommended: SAE 10W-30**. As viscosity varies with regions and temperatures, so the lubricant has to be selected in accordance with our recommendation.



To add oil, follow these steps:

1. Make sure the generator is on a level surface.
2. Unscrew the oil filler/dipstick cap from the engine as shown in *figure 2*.
3. Using a funnel, add the appropriate amount of oil, as found in *figure 1*, into the crankcase. You will know the crankcase is full when the oil level has reached the lower lip of the opening you have just poured the oil into (see *figure 3*).
4. Replace oil filler cap.

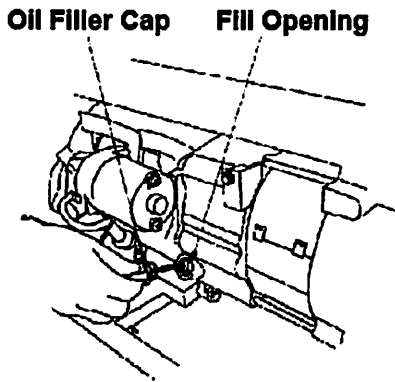


Figure 2- Unscrewing the oil cap



Figure 3 - Adding oil

Step 2 - Add Gasoline

⚠ WARNING: Gasoline and gas fumes are highly flammable.

- Do not fill tank near an open flame.
- Do not overfill. Always check for fuel spills.

To ensure that the generator runs smoothly use only FRESH, UNLEADED GAS WITH AN OCTANE RATING OF 87 OR HIGHER.

To add gasoline:

1. Make sure the generator is on a level surface.
2. Unscrew gas cap and set aside (NOTE: the gas cap may be tight and hard to unscrew).
3. Slowly add unleaded gasoline to the fuel tank. Be careful not to overfill. Please refer to the chart in *figure 4* to find the gas capacity of your generator model. The fuel gauge on the top of the gas tank indicates how much gasoline is in the generator gas tank.
NOTE: Gas can expand. Do not fill the gas tank to the very top.
4. Replace fuel cap and wipe up any spilled gasoline with a dry cloth.

IMPORTANT:

- Never use an oil/gasoline mixture.
- Never use old gas.
- Avoid getting dirt or water in the fuel tank.
- Gas can age in the tank and make it hard to start up the generator in the future.
- Never store generator for extended periods of time with fuel in the tank.

<i>Model number</i>	XP4400H	XP4400EH
<i>Gas tank capacity</i>	15L (3.96 US Gallons)	

Figure 4 - Gas Tank Capacity

Step 3 - Ground the Generator

⚠ WARNING: Failure to properly ground the generator can result in electrocution.

Ground the generator by tightening the grounding nut against a grounding wire (see *figure 5*). A generally acceptable grounding wire is a No. 12 AWG (American Wire Gauge) stranded copper wire. This grounding wire should be connected at the other end to a copper or brass-grounding rod

that is driven into the earth. Grounding codes can vary by location. Please contact a local electrician to check the grounding regulations for your area.

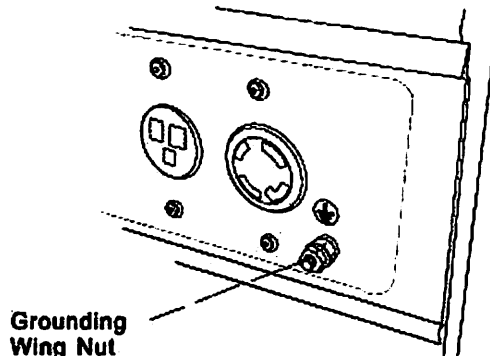


Figure 5 – Attaching the Grounding Wire to the Generator

Subsequent Use of the Generator

If this is not your first time using the generator there are still steps you should take to prepare it for operation.

IMPORTANT: At this point you should be familiar with the procedures described in the first portion of this section entitled *"Using the Generator for the First Time."* If you have not yet read this section, go back and read it now.

Step 1- Check the oil

The generator is equipped with an automatic shutoff to protect it from damage due to low oil. Nonetheless, you should check the oil level of the engine before each use to ensure that the engine crankcase has a sufficient amount.

To check the oil level:

1. Make sure the generator is on a level surface.
2. Unscrew the oil filler/dipstick cap.
3. With a dry cloth, wipe the oil off of the stick on the inside of the cap.
4. Insert the dipstick as if you were replacing the cap and then remove again. There should now be oil on the stick. If there is no oil on the stick, or oil only at the very end of the stick, you should add oil until the engine crankcase is filled (see *"Adding Oil"* portion of the *"Maintenance"* section).
5. Be sure to replace the cap when finished checking oil.

NOTE: The oil capacity for your generator can be found in the *"Specifications"* section of this manual.

Step 2 - Check the Gas Level

Before starting the generator, check to see that there is sufficient gasoline in the gas tank. The fuel gauge on top of the generator will indicate the gas level in the tank. Add gas if necessary according to the steps in the *"Adding Gasoline"* portion of the *"Maintenance"* section.

⚠ WARNING: Gasoline and gasoline fumes are highly flammable.

- Do not fill tank near an open flame.
- Always allow engine to cool for several minutes before refueling.
- Do not overfill (check the *"Specifications"* section for the tank capacity of your generator). Always check for fuel spills.

⚠ IMPORTANT:

- Use only UNLEADED gasoline with an octane rating of 87 or higher.
- Do not use old gas.
- Never use an oil/gasoline mixture.
- Avoid getting dirt or water in the fuel tank.
- Never store generator for extended periods of time with fuel in the tank.

Step 3- Ground the Generator

- ⚠ WARNING:** Failure to properly ground the generator can result in electrocution. Ground the generator by tightening the grounding nut against a grounding wire (see figure 5). A generally acceptable grounding wire is a No. 12 AWG (American Wire Gauge) stranded copper wire. This grounding wire should be connected at the other end to a copper or brass-grounding rod that is driven into the earth.

Grounding codes can vary by location. Please contact a local electrician to check the grounding regulations for your area.

STARTING THE GENERATOR - Gasoline or LPG separately

⚠ CAUTION:

When using gasoline, LPG must be shut off! When using LPG, gasoline must be shut off!

- ⚠ Disconnect all electrical loads from the generator before attempting to start!**

To start your generator with gasoline, perform the following steps:

1. Make sure no electrical devices are connected to the generator. Such devices can make it difficult for the engine to start.
2. Check that the generator is properly grounded (see page 13, "Ground the Generator").
3. Turn the gasoline fuel valve to the "ON" position
4. Move the choke lever to the "CLOSED" position (see figure 7).
5. Set the engine switch to the "ON" position.
6. Pull on the recoil starter handle slowly until a slight resistance is felt (see figure 8). Then pull quickly to start the engine. Return cord gently into the machine. Never allow the cord to snap back.
7. If engine fails to start, repeat step 4. NOTE: After repeated attempts to start the engine, please consult the troubleshooting guide before attempting again.
8. Once the engine has started and run for about a minute, move the choke lever about half way towards the "OPEN" position. Wait another 30 seconds and then move the choke lever all the way to the "OPEN" position.
9. Allow the generator to run for several minutes before attempting to connect any electrical devices.

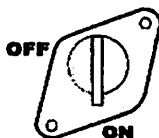


Figure 6 - fuel valve in the "on" position

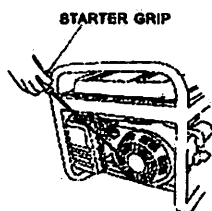


Figure 8 - Pulling the recoil start.



Figure 7 - Choke in the close position

To start your generator with LPG, perform the following steps:

1. Make sure no electrical devices are connected to the generator.
2. Check that the generator is properly grounded (see page 13, "Ground the Generator").
3. Turn the gasoline fuel valve to the "OFF" position (see figure 6).
4. Connect the propane gas hose to the regulator (see figure B).
5. Connect the regulator to the liquid propane gas supply and then turn on the liquid propane gas supply, making sure there are no leaks (see figure C).
6. Open the clasp connected to the Pressure Release Valve (see figure C).
7. Press the button on Pressure Release Valve two to three times before starting the engine. (see figure D)
8. When starting the engine:
 - a. If the engine is warm (The unit was run recently) start with the choke half open.
 - i. Wait another 30 seconds and then move the choke lever all the way to the "OPEN" position.
 - b. If the engine is cold (The unit has not been run for half an hour or more) start with the choke open. (see figure E & F).
9. Pull on the recoil starter handle slowly until a slight resistance is felt (see figure 8). Then pull quickly to start the engine. Return cord gently into the machine. Never allow the cord to snap back.
10. Allow the generator to run for several minutes before attempting to connect any electrical devices.

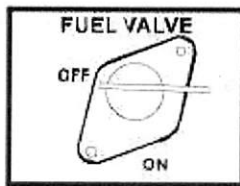


Figure A - Fuel Valve in the "OFF" position



Figure C-Connect Valve

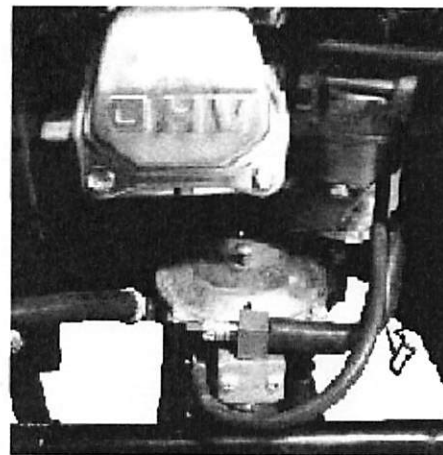


Figure B - Connect the Hose

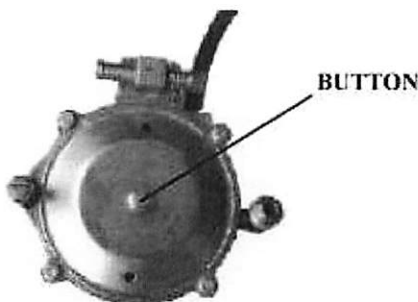


Figure D -Button on Presssure Release Valve

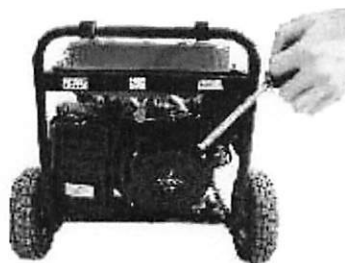


Figure F - Start with LPG(Liquid Propane Gas)

⚠ WARNING: WHEN USING THE GENERATOR WITH LPG
MAKE SURE THERE IS NO POSSIBLE IGNITION SOURCE CLOSE TO THE GENERATOR.

1. Before using, make sure all of the connectors and hoses are well connected and sealed.
2. Connect electrical devices to generator ONLY after the engine runs smoothly. (There may be remnant gasoline in the carburetor; this can cause unsteady engine performance for several minutes)
3. If the propane gas leaks, shut off the LPG supply first and then quickly unplug or turn off any electrical devices powered by the unit.
4. When stopping the engine, unplug or turn off any electrical devices and then turn off the LPG CLASP (see figure C). After the engine has stopped, turn the KEY to 'OFF" position, then shut off the LPG supply.

USING THE GENERATOR

Once you have allowed the engine to run for several minutes, you may connect electrical devices to the generator.

AC Usage

You may connect electrical devices running on AC current according to their wattage requirements. The chart in figure 9 shows the rated and surge wattage of your generator according to its model number.

The *rated wattage* corresponds to the maximum wattage the generator can output on a continuous basis.

The *surge wattage* corresponds to the maximum amount of power the generator can output for a short period of time. Many electrical devices such as refrigerators require short bursts of extra power, in addition the rated wattage listed by the device, to stop and start their motors.

The surge wattage ability of the generator covers this extra power requirement.

Model Number	Rated (Running) Wattage	Surge Wattage
XP4400	3500	4400
XP4400E	3500	4400

Figure 9-generator wattage by model number

The total running wattage requirement of the electrical devices connected to the generator should not exceed the rated wattage of the generator itself. To calculate the total wattage requirement of the electrical devices you wish to connect, find the rated (or running) wattage of each device. This number should be listed somewhere on the device or in its instruction manual.

If you cannot find this wattage, you may calculate it by multiplying the Voltage requirement by the Amperage drawn: $\text{Watts} = \text{Volts} \times \text{Amperes}$. If these specifications are not available you may estimate the Watts required by your device by using the chart in *figure 10*.

Tool or Appliance	Rated (Running) Watts	Additional Surge Watts
Electric water heater (40 gal)	4000	0
Hot plate	2500	0
Saw-radial arm	2000	2000
Electric stove	1500	0
Saw-circular	1500	1500
Air compressor (1HP)	1500	3000
Window air conditioner	1200	1800
Saw-miter	1200	1800
Microwave	1000	2000
Well water pump	1000	1500
Reciprocating saw	960	1040
Sump pump	800	1200
Refrigerator freezer	800	1200
Furnace blower	800	1300
Computer	800	0
Electric drill	600	900
Television	500	0
Deep freezer	500	800
Garage door opener	480	600
Stereo	400	0
Box fan	300	600
Clock radio	300	0
Security system	180	0
DVD player/VCD	100	0
Common light bulb	75	0

Figure 10- Estimated wattage requirements of common electrical devices.

Once you have found the rated wattage requirement of each electrical device, add these numbers to find the total rated wattage you wish to draw from the generator. If this number exceeds the rated wattage of the generator, **DO NOT** connect all these devices. Select a combination of electrical devices, which has a total rated wattage lower than or equal to the rated wattage of the generator.

CAUTION - The generator can only run at its surge wattage capacity for a short time. Connect only electrical devices requiring a rated (running) wattage equal to or less than the rated wattage of the generator. Never connect devices requiring a rated wattage equal to the surge wattage of the generator.

NOTE: The above wattage figures are estimates only. Try to check the wattage listed on your electrical devices before consulting this chart.

Once you have determined what electrical devices you will be powering with the generator, connect these devices according to the following procedure:

1. Plug in each electrical device with the device turned off.
 - a. NOTE: Be sure to attach appliances to the correct receptacle (outlet). Connect standard 120 Volt, single phase, 60 Hz loads only to the 120 Volt receptacles.
 - b. Connect 120/240 Volt, single phase, 60Hz loads with NEMA L14-30 plug **only** to the 120/240 Volt receptacle See *Figure 11* for a depiction of each of these receptacles.
2. Switch the circuit breaker to the "ON" position.
3. Turn on the connected electrical devices in the order of the amount of power they require beginning with the device with the highest rated Wattage requirement.

⚠ CAUTION: Do not connect 50Hz or 3-phase loads to the generator.

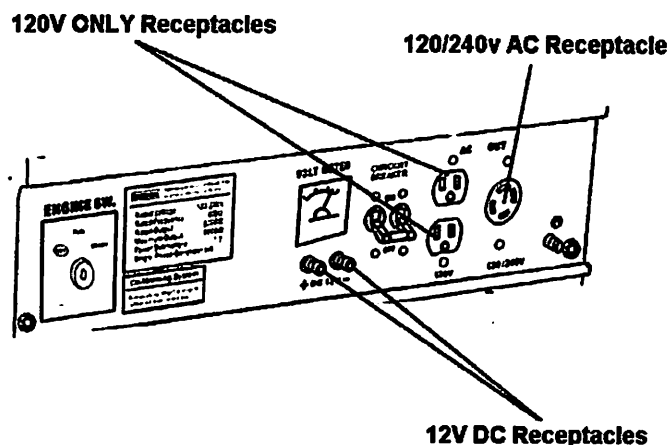


Figure 11- Receptacles available on the generator

VOLTAGE SELECTOR SWITCH

The voltage selector switches the dual 120v AC windings of the generator to produce "120V ONLY" or "120/240V". If a 240V appliance is connected to the 4-prong receptacle, the switch must be in the "120/240V" position. If only 120V appliances are being connected to the generator select the "120V ONLY" position to double the 120v amperage.

WARNING:

Only change the Voltage Selector Switch with the main AC circuit breaker OFF. The generator can be seriously damaged if the Voltage Selector Switch is changed with the breaker ON.

SOME NOTES ABOUT POWER CORDS

Long or thin cords can drain the power provided to an electrical device by the generator. When using such cords, allow for a slightly higher rated wattage requirement for the electrical device. See *Figure 12* for recommended cords based on the power requirement of the electrical device.

Device Requirements			Max. Cord Length (ft.) by Wire Gauge				
Amps	Watts (120V)	Watts (240V)	#8 wire	#10 wire	#12 wire	#14 wire	#16 wire
2.5	300	600	NR	1000	600	375	250
5	600	1200	NR	500	300	200	125
7.5	900	1800	NR	350	200	125	100
10	1200	2400	NR	250	150	100	50
15	1800	3600	NR	150	100	65	NR
20	2400	4800	175	125	75	50	NR
25	3000	6000	150	100	60	NR	NR
30	3600	7200	125	65	NR	NR	NR
40	4800	9600	90	NR	NR	NR	NR

*NR= not recommended

Figure 12 - Maximum Extension Cord Lengths by Power Requirement

DC Usage

⚠ CAUTION: The DC receptacle is for recharging 12 Volt automotive-type batteries only. Do not connect any other device to this receptacle.

⚠ CAUTION: Never try to jump start a car with your generator.

To connect 12 Volt batteries to the DC receptacle:

1. Connect one charging wire to the positive terminal on the battery and the other charging wire to the negative terminal on the battery.
2. Connect the free end of the positive wire to the positive receptacle (outlet) on the generator.
3. Start the generator.
4. Carefully connect the free end of the negative wire to the negative receptacle on the generator.
5. When disconnecting, always disconnect the wires from the generator first to avoid a spark.

⚠ DANGER: Storage batteries emit highly explosive hydrogen gas when charged.

Batteries also contain acid, which can cause severe chemical burns.

⚠ Do not allow open flames or cigarettes nearby for several minutes after charging a battery.

⚠ Always wear protective goggles and rubber gloves when charging a battery.

⚠ If battery acid gets on your skin, flush with water.

⚠ If battery acid gets in your eyes, flush with water and call a physician immediately.

⚠ If battery acid is swallowed, drink large quantities of milk and call a Physician immediately.

If your generator is the electric start model, once running, it will charge the battery on the generator automatically. While charging, you can see the recharge indicator light lit, after the battery is full, the light will turn off.

STOPPING THE GENERATOR

To stop the generator:

1. Power down, and then unplug all connected electrical devices.
2. Switch the main AC circuit breaker to the "OFF" position.
3. Allow the generator to run for several more minutes with no electrical devices connected.
(This helps stabilize the temperature of the generator.)
4. Turn the engine switch to the "OFF" position.
5. Turn the fuel valve to the "OFF" position.

⚠ WARNING: Allow the generator to cool for several minutes before touching areas that become hot during use.

⚠ CAUTION: Allowing gas to sit in the generator tank for long periods of time without use can make it difficult to start the generator in the future. Never store generator for extended periods of time with fuel in the tank.

MAINTENANCE /CARE

Proper routine maintenance of your generator will help prolong the life of your machine. Please perform maintenance checks and operations according the schedule in *figure 13*.

⚠ CAUTION: Never perform maintenance operations while the generator is running.

Recommended Maintenance schedule

		Each use	Every month or	Every 3 months or	Every 6 months or	Every year or
Engine oil	Check level	x				
	Replace		x			
Air cleaner	Check	x				
	Clean			x		
Fuel filter cup	Clean				x	
Spark plug	Check/clean				x	
Gas tank	Check gas level	x				
	Clean		x			x

Figure 13 - Recommended maintenance schedule

Cleaning the Generator

Always try to use your generator in a cool dry place. However, in the event your generator becomes dirty you may clean the exterior with one or more of the following:

- A damp cloth
- A soft brush

- A vacuum
- Pressurized air

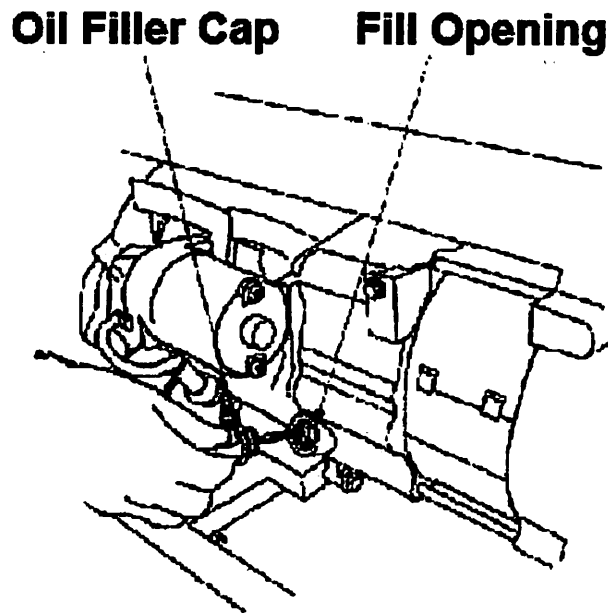
⚠ Never clean your generator with a bucket of water or a hose. Water can get inside the working parts of the generator and cause a short circuit or corrosion.

Checking the Oil

The generator is equipped with an automatic shutoff to protect it from running on low oil. Nonetheless, you should check the oil level of the generator before each use to ensure that the generator crankcase has a sufficient amount.

To check the oil level:

1. Make sure the generator is on a level surface.
2. Unscrew the oil filler/dipstick cap (see *figure 14*).
3. With a dry cloth, wipe the oil off of the stick on the inside of the cap.
4. Insert the dipstick as if you were replacing the cap and then remove again. There should now be oil on the stick. If there is no oil on the stick, or oil only at the very end of the stick, you should add oil until the engine crankcase is filled. See "*Changing/ Adding Oil*" in this section.
5. Be sure to replace cap when you are finished checking the oil.



You should check the oil level of your generator according to the maintenance schedule in *figure 13*. When the oil level is low you will need to add oil until the level is sufficient to run the generator. The oil capacity of your generator engine is listed in *figure 15*.

Model number	XP4400	XP4400E
Engine oil capacity	20 fluid oz.	20 fluid oz.

Figure 15- Engine Oil Capacity.

It is only necessary to drain the oil from the crankcase, other than for regular oil changes if it has become contaminated with water or dirt. In this case, you can drain the oil from the generator according to the following steps:

1. Place an approved oil disposal container underneath the generator to catch oil as it drains.
2. Using a 10 mm hex wrench, unscrew the oil drain plug, which is located on the crankcase underneath the oil filler/dipstick cap (see *figure 16*). Allow all the oil to drain from the generator.
3. Replace the oil drain plug and tighten with a 10 mm hex wrench.

To add oil to the crankcase, follow these steps:

1. Make sure the generator is on a level surface.
2. Unscrew the oil filler/dipstick cap from the engine as shown in *figure 14* above.
3. Using a funnel, add motor oil to the crankcase. We recommend SAE 10W30 motor oil for general use. When full, the oil level should come close in the top of the oil fill opening (see *figure 17*).

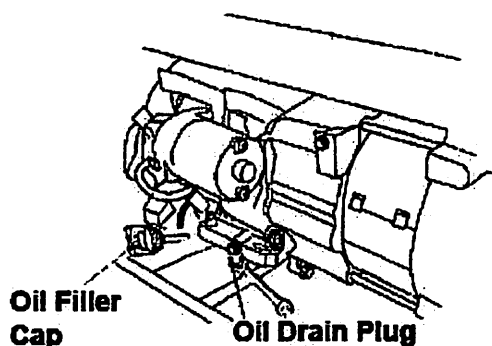


Figure 16: Draining Oil



Figure 17: Adding Oil

NOTE: Never dispose of used motor oil in the trash or down a drain. Please call your local recycling center or auto garage to arrange oil disposal.

Air Cleaner Maintenance

Routine maintenance of the air cleaner helps maintain proper airflow to the carburetor. Occasionally check that the air cleaner is free of excessive dirt.

1. Unhinge the clasps at the top and bottom of the air cleaner cover (see *figure 18*).
2. Remove the sponge-like elements from the casing.
3. Wipe the dirt from inside the empty air cleaner casing.
4. Wash the sponge-like elements in household dish detergent and warm water.
5. Allow the elements to dry completely.
6. Soak the dry elements in a small amount of engine oil. Ring out any excess oil.
7. Replace the sponge-like elements in the air cleaner casing and replace the cover.

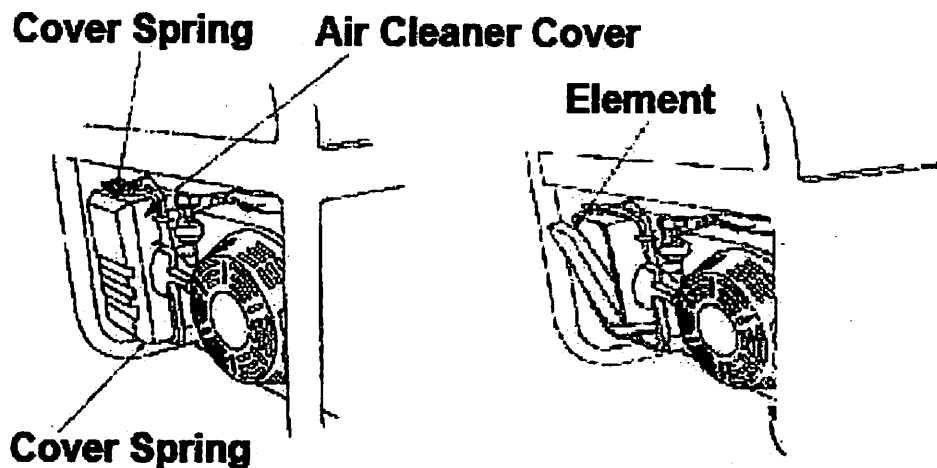


Figure 18 – Removing the air cleaner casing.

Fuel Filter Cup Cleaning

The fuel filter cup is a small well underneath the fuel valve. It helps to trap dirt and water that may be in your fuel tank before it can enter the engine.

To clean the fuel filter cup:

1. Turn the fuel valve to the "OFF" position.
2. Unscrew the fuel filter cup from the fuel valve using a wrench. Turn the valve toward you to unscrew (see figure 19).
3. Clean the cup of all sediment using a rag or brush.
4. Reinstall the fuel filter cup.

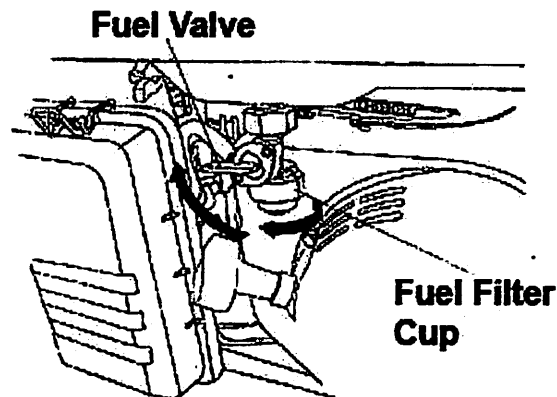


Figure 19 –Removing the Fuel Filter Cup

Spark Plug Maintenance

The spark plug is important for proper engine operation. A good spark plug should be intact, free of deposits, and properly gapped.

To inspect you spark plug:

1. Pull on the spark plug cap to remove it.
2. Unscrew the spark plug from the generator using the spark plug wrench included with this product (see figure 20).
3. Visually inspect the spark plug. If it is cracked or chipped, discard and replace with a new spark plug. We recommend using a F6RTC spark plug such as NGK BPR5ES.
4. Measure the plug gap with a gauge (see figure 21). The gap should be 0.7-0.8 mm (0.028-0.031 in).
5. If you are re-using the spark plug, use a wire brush to clean any dirt from around the spark plug base and then re-gap the spark plug.

6. Screw the spark plug back into its place on the generator using the spark plug wrench.
7. Replace the spark plug cap.

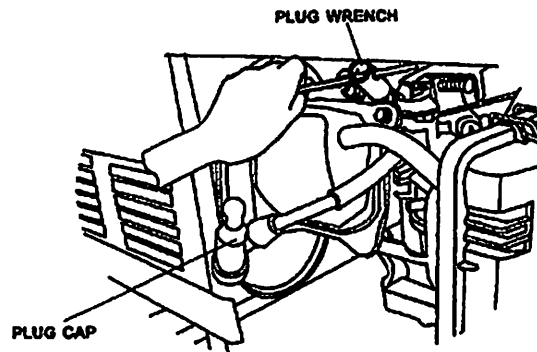


Figure 20- Removing the spark plug

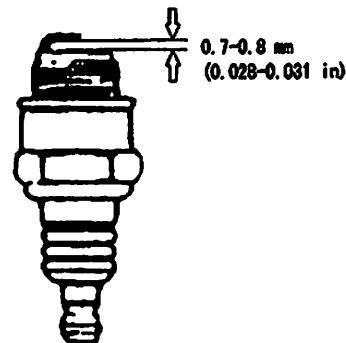


Figure 21- Measuring the spark plug gap

Emptying the Gas Tank

Before storing your generator for extended periods of time, you should drain your generator of gasoline.

To drain the generator of gas:

1. Turn the fuel valve to the "OFF" position.
2. Remove the fuel filter cup (see "*Removing the Fuel Filter Cup*" earlier in this section).
3. Empty the fuel filter cup of any fuel.
4. With a receptacle underneath the generator to catch the gas, turn the fuel valve to the "ON" position. Drain all the gas from the generator.
5. Turn the fuel valve to the "OFF" position.
6. Replace the fuel filter cup.
7. Store the emptied gasoline in a suitable place.

⚠CAUTION: Do not store fuel from one season to another.

STORAGE/TRANSPORT PROCEDURES

⚠ Caution: Never place any type of storage cover on the generator while it is still hot.

When transporting or storing your generator for extended periods of time:

- Empty the gas tank (see "*Emptying the Gas Tank*" in the "*Maintenance*" section).
- Disconnect the spark plug.
- Do not obstruct any ventilation openings.
- Keep the generator in a cool dry area.

GENERATOR SPECIFICATIONS

AC Output

	XP4400H	XP4400EH
Rated Wattage	3500W	3500W
Surge Wattage	4400W	4400W
Rated Voltage	120/240V	120/240V
Rated Frequency	60Hz	60Hz
Phase	Single	Single

DC Output

	XP4400H	XP4400EH
Voltage	12V	12V
Amperage	8.3A	8.3A
Dimensions (in):	Length=23.2 Width=17 Height=17	Length=23.2 Width=17 Height=17

Engine

	XP4400H	XP4400EH
Engine type	4-stroke OHV single cylinder with forced air cooling system	
Ignition system	Non-contact transistor	
Displacement	200cc	
Starting type	Recoil	Electric
Fuel tank capacity:	15L(3.96US gal.)	
Oil capacity	0.6L(20fl oz.)	
Run time on 50% load	14hrs	12 hrs
Noise Level	< 69dB	

TROUBLESHOOTING

Problem	Cause	Solution
Engine will not start	Engine switch is set to "OFF".	Set engine switch to "ON".
	Fuel valve is turned to "CLOSED".	Turn fuel valve to "OPEN" position.
	Choke is open.	Close the choke
	Engine is out of gas.	Add gas.
	Engine is filled with contaminated or old gas	Change the gas on the engine.
Engine will	Spark plug is dirty.	Clean spark plug.
not start (continued from page 19)	Spark plug is broken.	Replace spark plug.
	Generator is not on level surface.	Move generator to a level surface to prevent low oil shutdown from triggering.
	Oil is low	Add or replace oil.
Engine runs but there is no electrical output	Circuit breaker is off.	Set the circuit breaker to the "ON" position.
	Bad connecting wires/cables.	If you are using an extension cord, try a different one.
	Bad electrical device connected to generator.	Try connecting a different device.
Generator runs but does not support all electrical devices connected.	Generator is overloaded	Try connecting fewer electrical loads to the generator.
	Shorten one of the connected devices.	Try disconnecting any faulty or short-circuited electrical loads.
	Air cleaner is dirty.	Clean or replace air cleaner.

GENERATOR ASSEMBLY AND MOUNTING

Generator is supplied with a wheel kit. If you want to install the wheel kit on your unit, please follow the instructions below. If you will not be using the wheel kit, skip this section.

1. Place the bottom of the generator cradle on a flat, even surface. Temporarily place unit on blocks to ease assembly.
2. Secure the support leg to the cradle with cap screws (M8 x 16) and lock nuts (M8) (see *figure 22*).
3. Secure the axle to the cradle with cap screws (M8 x 16) and lock nuts (M8) (see *figure 23*).
4. Slide a wheel over the axle, then secure the wheel with a retaining pin. (see *figure 24, Figure 25, Figure 26*).
5. Position the handles on the cradle and attach, cap screws (M8 x 16) and lock nuts (M8) (*Figure 27, Figure 28*).
6. Check that all fasteners are tight.



Figure 22



Figure 23



Figure 24



Figure 25



Figure 26



Figure 27

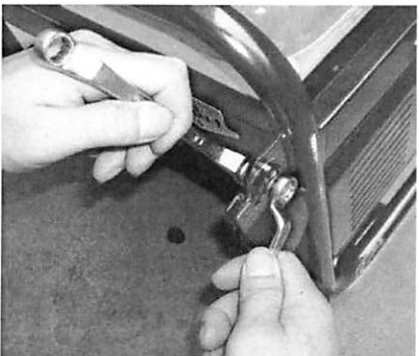
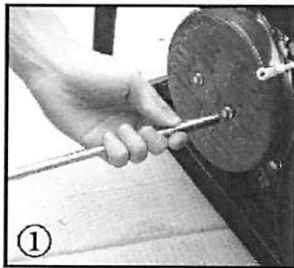
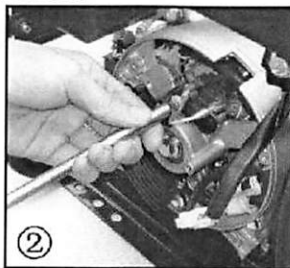


Figure 28

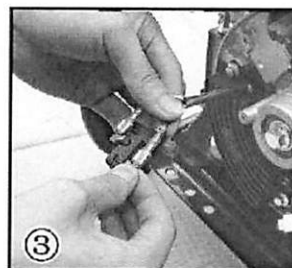
CHANGE THE CARBON-BRUSH



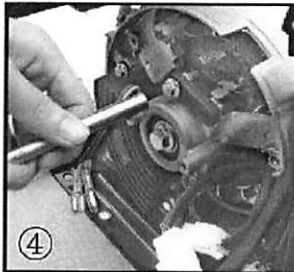
① Remove the 2 bolts (M5x12) on the generator back-cover



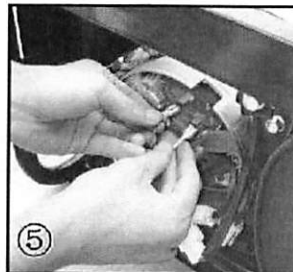
② Remove the bolt (M5x16) holding the carbon brush.



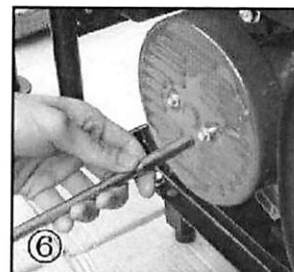
③ Remove the 2 wires from the AVR on the carbon brush.



④ Install the new carbon brush with bolt (M5x16)

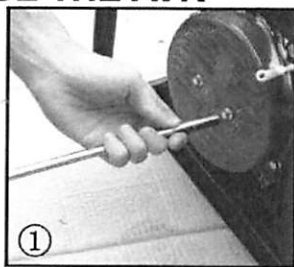


⑤ Insert and connect the 2 wires from the AVR, be sure to connect + and - correctly.

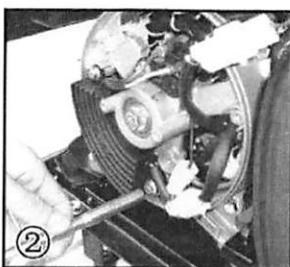


⑥ Replace the back cover of the generator and secure with the 2 bolts (M5x12)

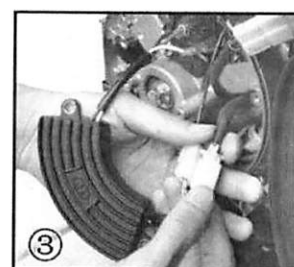
CHANGE THE AVR



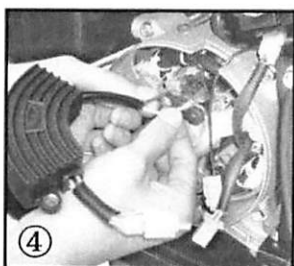
① Remove the 2 bolts (M5x12) on the generator back cover.



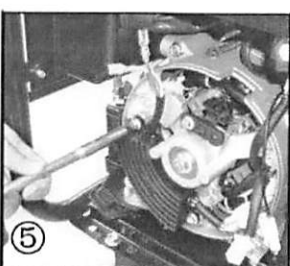
② Remove the 2 bolts (M5x16) holding the AVR.



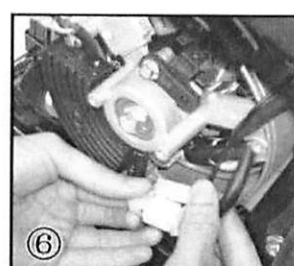
③ Disconnect the wire clip.



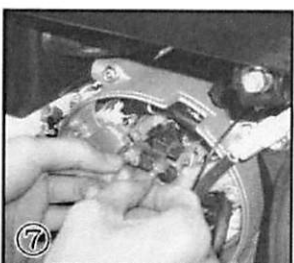
④ Remove the 2 wires of the AVR from the carbon brush.



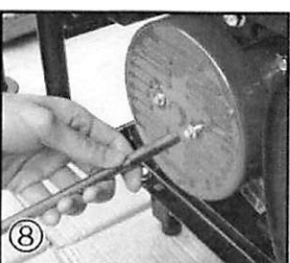
⑤ Install the new AVR with the 2 bolts (M5x16).



⑥ Reconnect the wire clip.

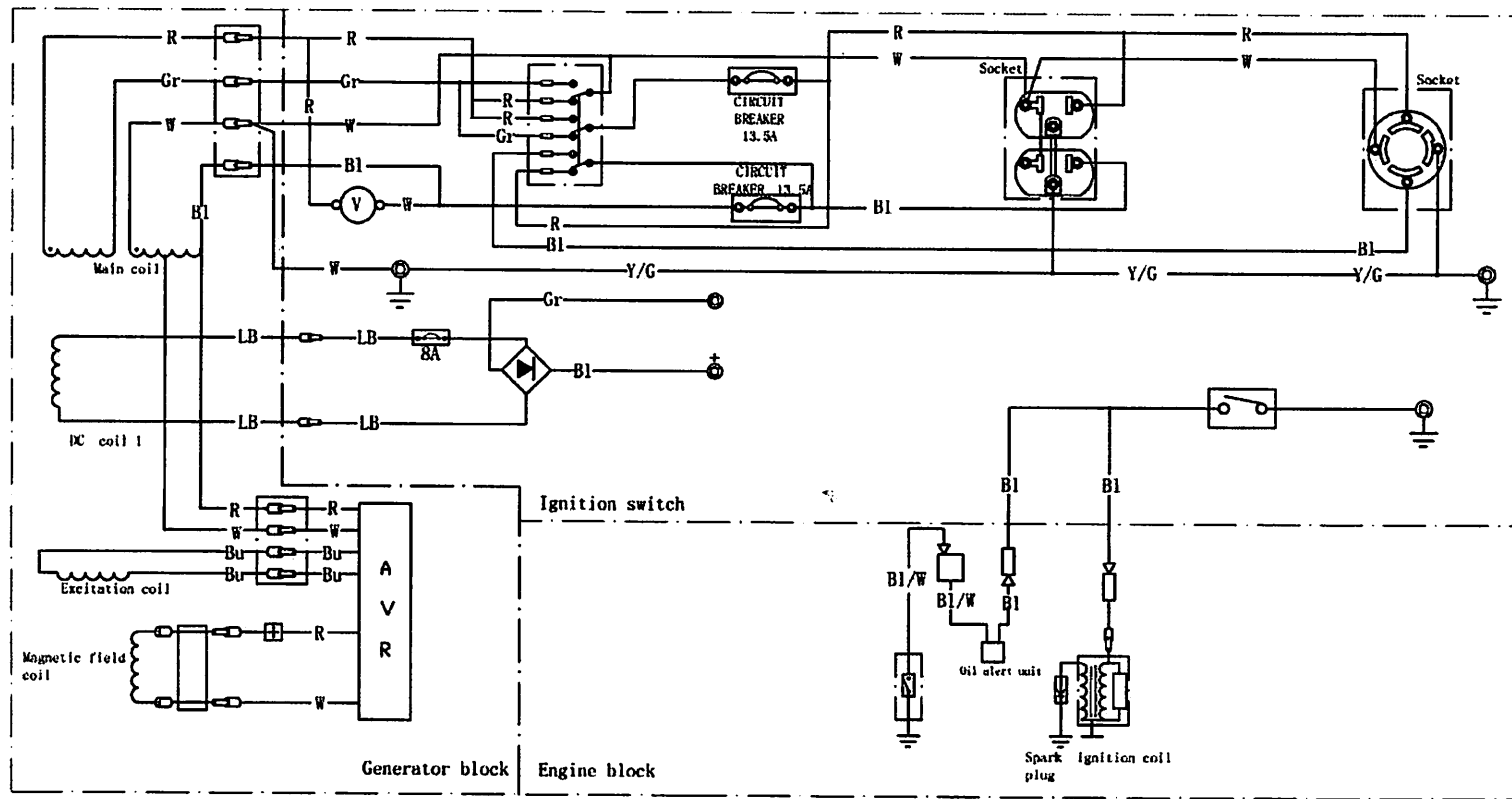


⑦ Connect the 2 wires to the carbon brush, be sure to connect the + and - correctly.



⑧ Replace the back cover of the generator and secure with the 2 bolts (M5x12).

WIRING DIAGRAM (XP4400H)



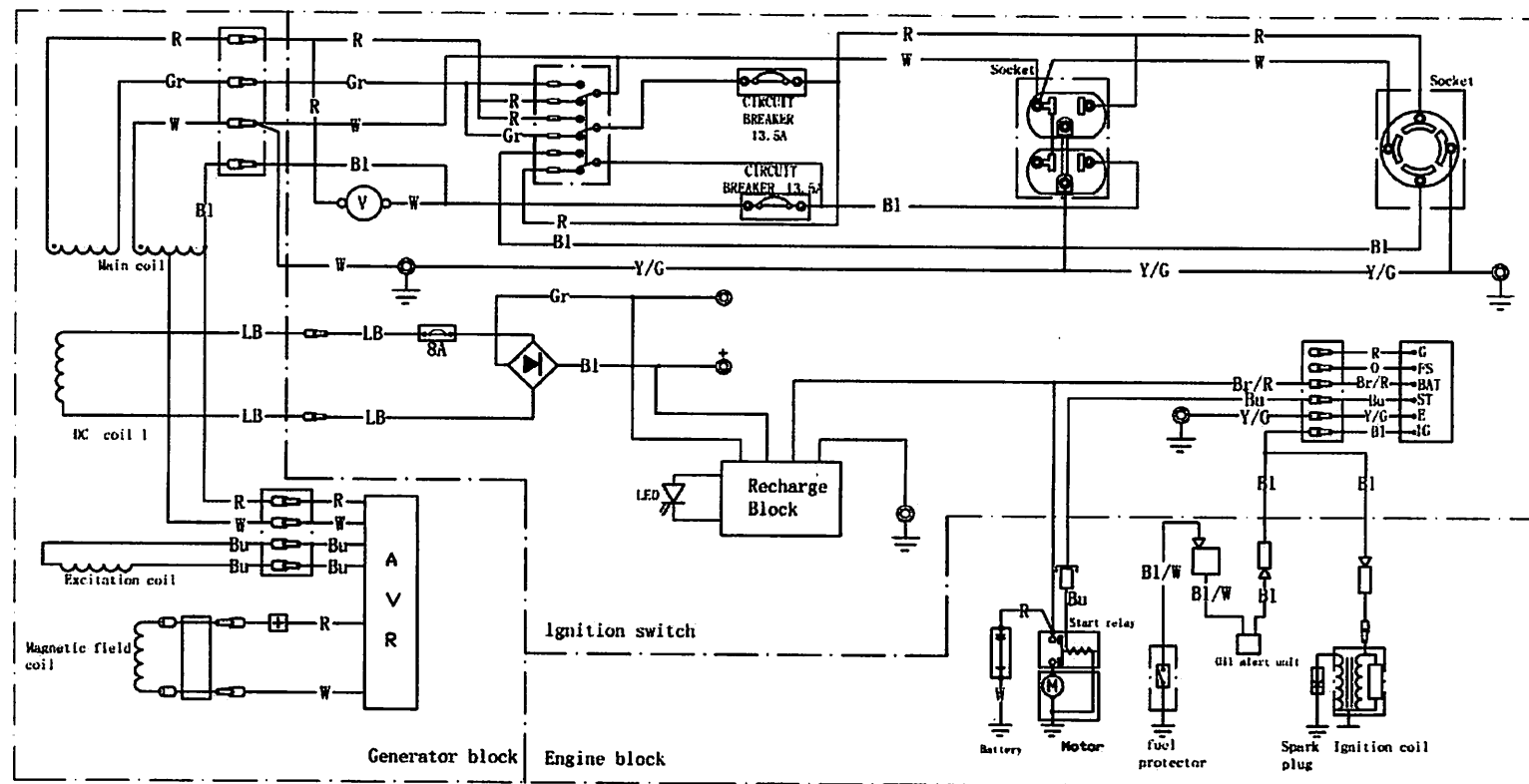
Ignition switch connecting

B1	Black	Br	Brown
O	Orange	Br/R	Brown/Red
Bu	Blue	LB	Light blue
Gr	Gray	Y/G	Yellow/Green
R	Red	W	White

	IG	E	BAT	ST	FS	G
OFF	○	○			○	
ON						
Start			○			

WIRING DIAGRAM OF 120V/240V GENERATOR SET

WIRING DIAGRAM (XP4400EH)



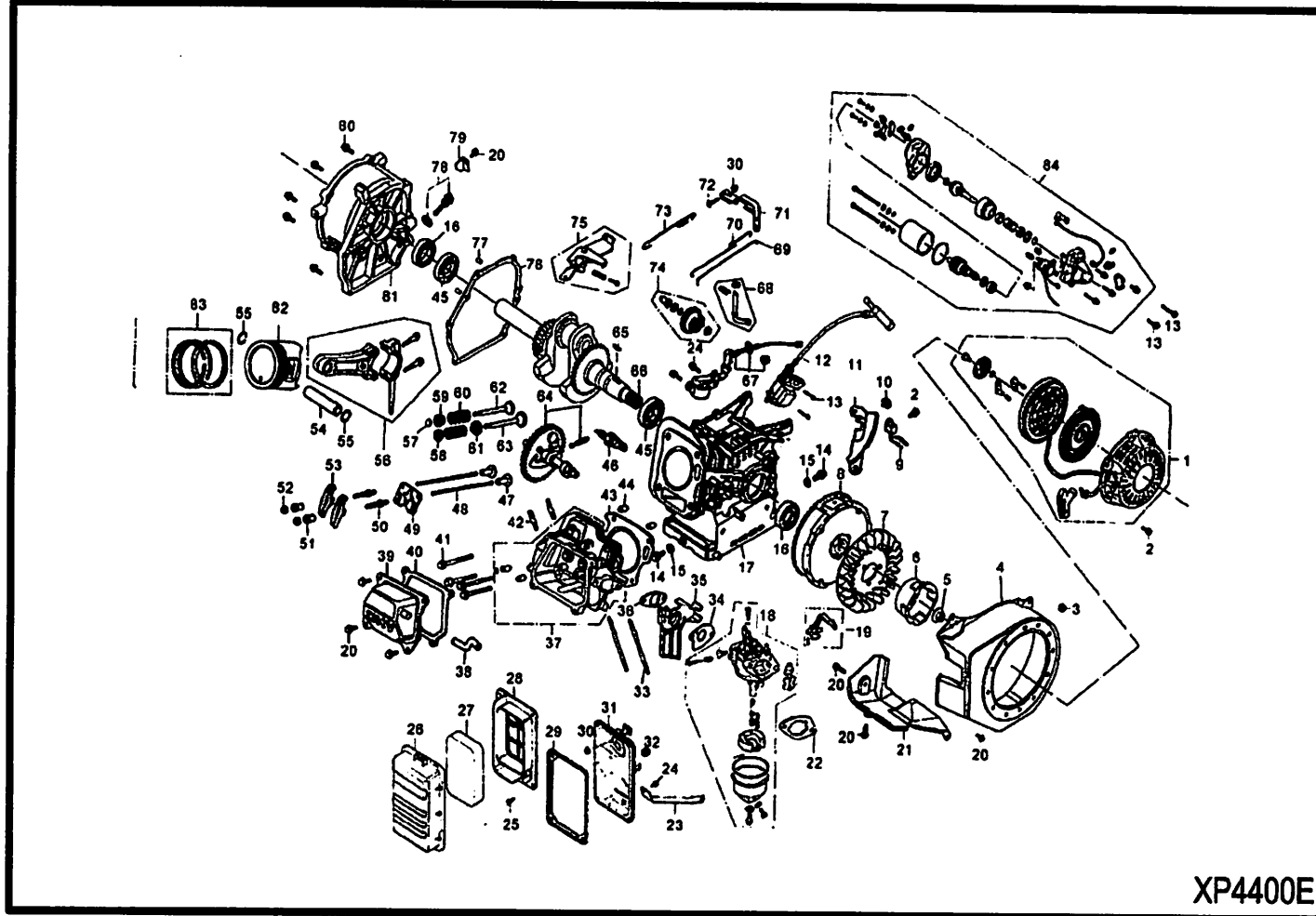
B1	Black	Br	Brown
O	Orange	Br/R	Brown/Red
Bu	Blue	LB	Light blue
Gr	Gray	Y/G	Yellow/Green
R	Red	W	White

Ignition switch connecting

	IG	E	BAT	ST	FS	G
OFF						
ON						
Start						

WIRING DIAGRAM OF 120V/240V GENERATOR SET

XP4400E ENGINE EXPLODED

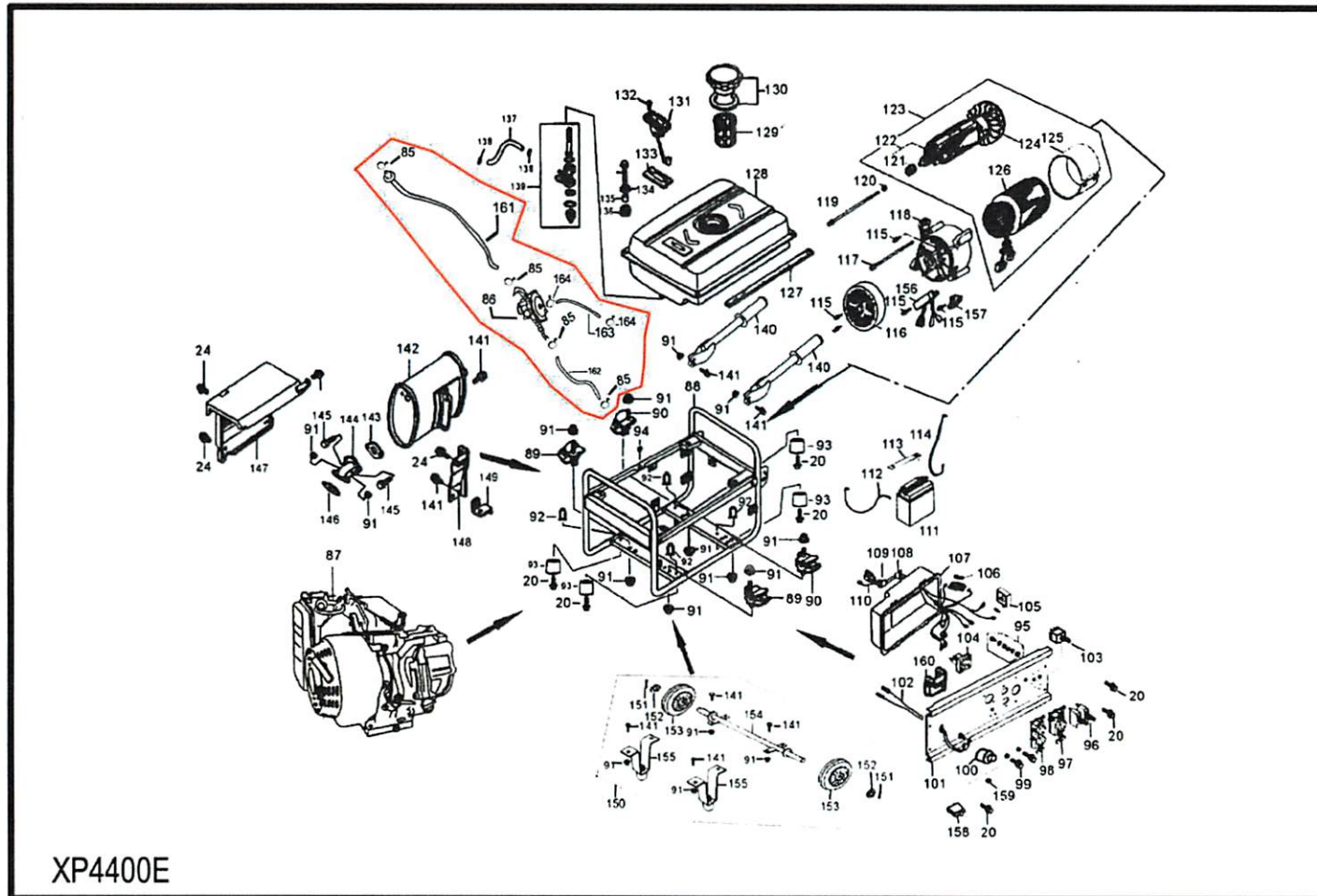


PARTS LIST

Part No.	Article Name	Qty	Cross Reference	Reference No.
1	Recoiler COMP	1	DJ168F-16121-K	XP4400E-1
2	Flange Bolt M8*8	4	GBT5787-88-8	XP4400E-2
3	Grommet Drain Hole	1	DJ168F-16118	XP4400E-3
4	Covering Fan COMP	1	DJ170N-16121-A	XP4400E-4
5	Flange, Nut M14	1	GBT6177/10-N-14	XP4400E-5
6	Starting Pulley	1	DJ168F-16000-A	XP4400E-6
7	Cooling Fan	1	DJ168F-16002-A	XP4400E-7
8	Flywheel COMP	1	DJ168F-16200-I	XP4400E-8
9	Oil Blocker	1	DJ168F-16300-A	XP4400E-9
10	Clip, Oil blocker	1	**SEE REF NO.	XP4400E-10
11	Side Plate	1	DJ170S-11400-A	XP4400E-11
12	Coil ASSY, Ignition	1	DJ168F-16100-C	XP4400E-12
13	Flange Bolt M8*25	2	GBT5787-88-25	XP4400E-13
14	Bolt, Drain plug	2	DJ168F-11004-A	XP4400E-14
15	Washer, Drain plug	2	DJ168F-11005-A	XP4400E-15
16	Oil seal, 25*41*6	2	DJ168F-11014-A	XP4400E-16
17	Crank Case ASSY	1	DJ170F-11100-C	XP4400E-17
18	LPG Carburetor ASSY	1	DJ170FD-14100-C	XP4400E-18
19	Lever COMP, Choke	1	DJ168F-14119	XP4400E-19
20	Flange Bolt M8*12	11	GBT5787-88-16	XP4400E-20
21	Shroud COMP	1	DJ168F-11012-A	XP4400E-21
22	Gasket, Carburetor to Air cleaner	1	DJ168F-14027-A	XP4400E-22
23	Stay, Air cleaner	1	DF2500H-14205-A	XP4400E-23
24	Flange Bolt M8*12	3	GBT5787-88-12	XP4400E-24
25	Bolt, M5*12	4	GBT5787-B5-14	XP4400E-25
26	Cover COMP, Air cleaner	1	DJ168F-14204	XP4400E-26
27	Element, Air cleaner	1	DJ170F-14201	XP4400E-27
28	Seperator, Air cleaner	1	DJ168F-14202	XP4400E-28
29	Seal, air cleaner	1	DJ168F-14206	XP4400E-29
30	Flange nut M8	2	GBT6177-N-6	XP4400E-30
31	Case COMP, air cleaner	1	DJ168F-14205-A	XP4400E-31
32	Grommet Fender	1	DJ168F-14014-A	XP4400E-32
33	Bolt Head, 6*94	2	DJ168FD-14001-A	XP4400E-33
34	Gasket, Carburetor	1	DJ168F-14005-A	XP4400E-34
35	Heat Isolator, Carburetor	1	DJ168F-14004-A	XP4400E-35
36	Packing, Heat Isolator	1	DJ168F-14003-B	XP4400E-36
37	Cylinder Head COMP	1	DJ170F-11200-B	XP4400E-37
38	Breather	1	DJ168FD-11013-A	XP4400E-38
39	Cover COMP, Cylinder head	1	DJ168F-11300-C	XP4400E-39
40	Gasket, Cylinder head	1	DJ168F-11011-A	XP4400E-40
41	Flange Bolt M8*60	4	GBT5787-88-60	XP4400E-41
42	Bolt Head, M8*32	2	DJ168F-14002-A	XP4400E-42
43	Gasket, Cylinder head	1	DJ170F-11010-C	XP4400E-43
44	Pin, Dowel 10*16	2	DJ168F-11009-A	XP4400E-44
45	Radial Ball Bearing(6025)	2	GB278-89-6205	XP4400E-45

Part No.	Article Name	Qty	Cross Reference	Reference No.
46	Spark Plug	1	DJ168F-18500-A	XP4400E-46
47	Valve Lifter	2	DJ170F-13009-A	XP4400E-47
48	Push Rod	2	DJ170F-13008-B	XP4400E-48
49	Plate, Push rod guide	1	DJ168F-13300-A	XP4400E-49
50	Bolt, Pivot	2	DJ168F-13202-A	XP4400E-50
51	Nut, Valve rocker arm	2	DJ168F-13203-A	XP4400E-51
52	Nut, Pivot Adjust	2	DJ168F-13204-A	XP4400E-52
53	Valve Rocker Arm	2	DJ168F-413201-A	XP4400E-53
54	Piston Pin	1	DJ170F-12002-A	XP4400E-54
55	Clip, Piston pin	2	DJ168F-12003-A	XP4400E-55
56	Connecting Rod ASSY	1	DJ170F-12200-B	XP4400E-56
57	Valve Rocker	1	DJ168F-13006-A	XP4400E-57
58	Retainer, Intake Valve spring	1	DJ168F-13004-A	XP4400E-58
59	Retainer, EX Valve spring	1	DJ168F-13005-A	XP4400E-59
60	Valve Spring	2	DJ168F-13003-A	XP4400E-60
61	Valve Spring Seat	1	DJ168F-13010-A	XP4400E-61
62	Valve Exhaust	1	DJ168F-13001-A	XP4400E-62
63	Valve, Intake	1	DJ168F-13002-A	XP4400E-63
64	Camshaft	1	DJ168F-13100-B	XP4400E-64
65	Key, 25*18	1	DJ168F-12104	XP4400E-65
66	Crankshaft	1	DJ168F-12100-BB	XP4400E-66
67	Switch ASSY, Oil level	1	DJ168F-18200-A	XP4400E-67
68	Governor Shaft	1	DJ168F-15001-A	XP4400E-68
69	Rod, Governor arm	1	DJ168F-15008-A	XP4400E-69
70	Spring, Throttle return	1	DJ170F-15008-A	XP4400E-70
71	Governor Arm	1	DJ168F-15004-A	XP4400E-71
72	Bolt, Governor arm	1	DJ168F-15005-A	XP4400E-72
73	Governor Spring	1	DJ170F-15007-A	XP4400E-73
74	Governor ASSY	1	DJ168F-15100-A	XP4400E-74
75	Control ASSY	1	DJ168FD-15200-A	XP4400E-75
76	Packing, Case cover	1	DJ170F-11003-B	XP4400E-76
77	Pin, Dowel 8*14	2	DJ168F-11002-F	XP4400E-77
78	Cap, Oil filler	1	DJ168F-11007-A	XP4400E-78
79	Plat	1	DF1800H-33016-A	XP4400E-79
80	Flange Bolt M8*32	6	GBT5787-88-35	XP4400E-80
81	Crankcase Cover	1	DJ168FD-11001-C	XP4400E-81
82	Piston	1	DJ170F-12001-B	XP4400E-82
83	Piston Ring Set	1	DJ170F-12300-A	XP4400E-83
84	Start Motor	1	DJ168F-18600-A	XP4400E-84

XP4400E OTHERS EXPLODED

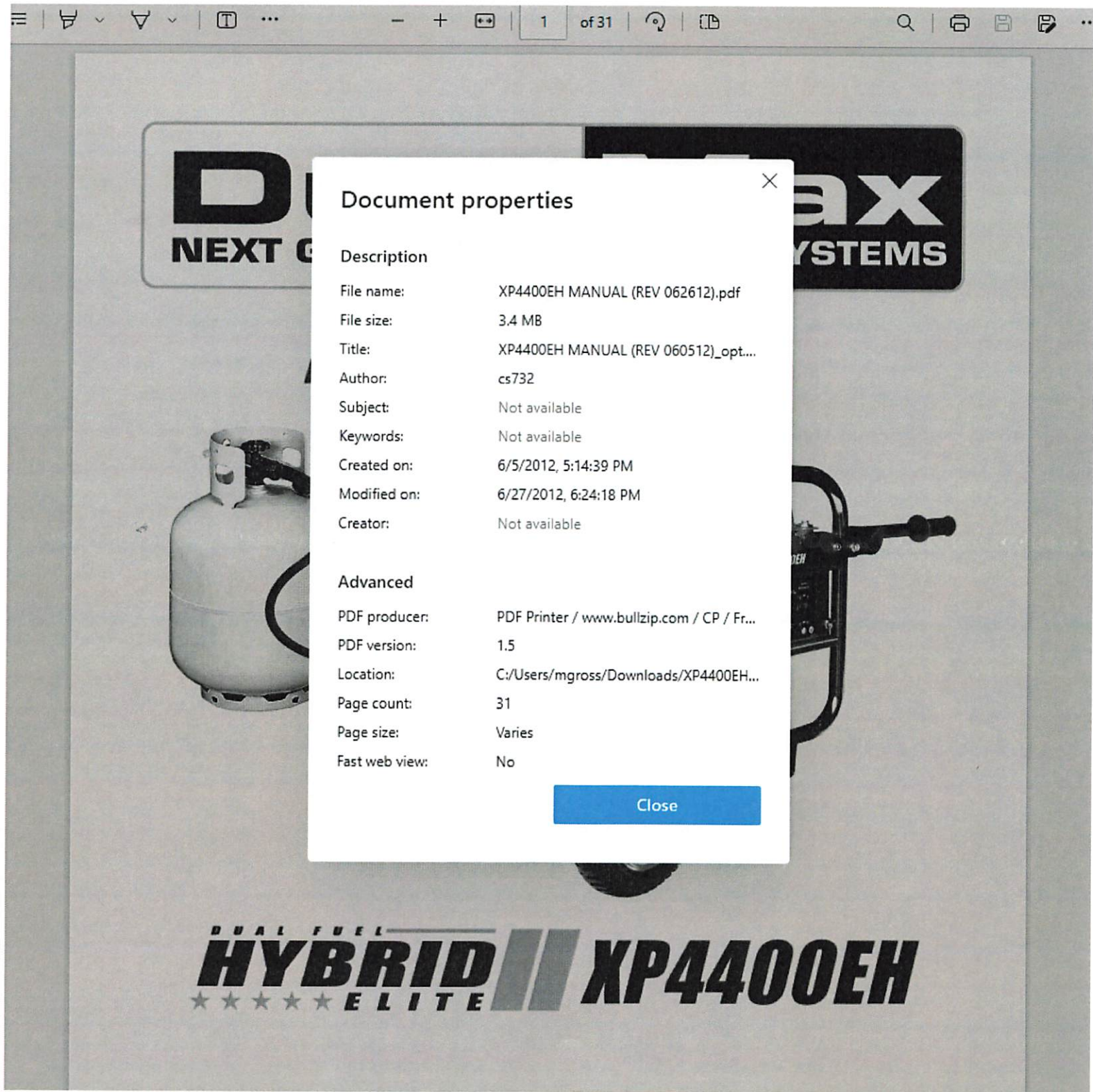


PARTS LIST

Part No.	Article Name	Qty	Cross Reference	Reference No.
85	Clip, Tube	4	**SEE REF NO.	XP4400E-85
86	Pressure Release Valve	1	**SEE REF NO.	XP4400E-86
87	Gasoline engine, Whole set	1	DJ170FD-BD	XP4400E-87
88	Frame COMP	1	XP4400E-31100-B	XP4400E-88
89	Bottom Rubber A	2	DF2500H-31201-A	XP4400E-89
90	Bottom Rubber B	2	DF2500H-31202-A	XP4400E-90
91	Flange Nut M8	18	DBT6177-N-8	XP4400E-91
92	Flange Nut M8	4	GBT889-N-8	XP4400E-92
93	Cushion, Frame	4	**SEE REF NO.	XP4400E-93
94	Rubber Pad, Frame	2	DF2500H-14304-A	XP4400E-94
95	Earth Terminal Set	1	34107	XP4400E-95
96	Circuit Breaker	1	34206-100	XP4400E-96
97	Receptacle (30A)	1	34204-003	XP4400E-97
98	Receptacle (20A)	2	34204-005	XP4400E-98
99	DC Output Post	2	34204-038	XP4400E-99
100	Engine Switch	1	34203-002	XP4400E-100
101	Control Panel	1	XP4400E-34101-A	XP4400E-101
102	Sub Harness	1	34213-002	XP4400E-102
103	Voltage Option Switch	1	34202-008	XP4400E-103
104	Voltage Meter	1	34205-001	XP4400E-104
105	Diode ASSY	1	34210-001	XP4400E-105
106	Fuse	1	**SEE REF NO.	XP4400E-106
107	Control Panel Case	1	34102-A	XP4400E-107
108	Boot, Main Wire Harness	1	34109	XP4400E-108
109	Boot, AC Output Wire	1	34117	XP4400E-109
110	Wire Harness ASSY	1	34212-001	XP4400E-110
111	Battery	1	31300-001	XP4400E-111
112	Positive Wire, Battery	1	31038-001	XP4400E-112
113	Battery Cover	1	DF1800H-31033-A	XP4400E-113
114	Negative Wire, Battery	1	31040-001	XP4400E-114
115	Flange Bolt M5*12	2	GBT5789-B5-16	XP4400E-115
116	Alternator Cover	1	DF1800H-33006-B	XP4400E-116
117	Flange Bolt M6*125	4	DF3500H-33015-A	XP4400E-117
118	Supporting Stand	1	DF1800H-33005-A	XP4400E-118
119	Bolt M8*180	1	DF3500H-33003-A	XP4400E-119
120	Plain Washer 10	1	GBT93-LW-8	XP4400E-120
121	Bearing 6204-2RS	1	GB276-89-6204	XP4400E-121
122	Rotator COMP	1	DF3500H-33110-B	XP4400E-122
123	Stator & Rotator ASSY	1	DF3000H33103-B-23802	XP4400E-123
124	Generator Fan	1	DF2500H-33023	XP4400E-124
125	Stator Cover	1	DF3500H-33129	XP4400E-125
126	Stator ASSY	1	DF3500H-33120	XP4400E-126
127	Stripe, Fuel Tank	1	DF2500H-14322-D	XP4400E-127
128	Fuel Tank	1	DF2500H-14300-B	XP4400E-128
129	Fuel Filter	1	14307	XP4400E-129

PartNo.	Article Name	Qty	Cross Reference	Reference No.
130	Cap	1	14306	XP4400E-130
131	Fuel Sensor	1	14303	XP4400E-131
132	Screw M5*10	2	GBT819-B-5	XP4400E-132
133	Gasket, Fuel Tank	1	14313	XP4400E-133
134	Washer	4	14311	XP4400E-134
135	Collar	4	14305	XP4400E-135
136	Cushion	4	14304	XP4400E-136
137	Outlet Pipe 4.5*165	1	DF168FD-14007-C	XP4400E-137
138	Tube Clip	2	DJ188F-14008-A	XP4400E-138
139	Fuel Cock	1	DF2500H-14302-A	XP4400E-139
140	Handles	2	DF63800H-31058-C	XP4400E-140
141	Flange Bolt M8*16	17	GBT889-N-8X20	XP4400E-141
142	Muffler	1	DF2500H-14400-E	XP4400E-142
143	Muffler Gasket	1	DJ188F-14006-A	XP4400E-143
144	Exhaust Pipe COMP	1	DJF2500H-14009	XP4400E-144
145	Flange Bolt M8*25	2	GB5787-B-6	XP4400E-145
146	Exhaust Pipe Gasket	1	DJ188F-14010-A	XP4400E-146
147	Muffler Guard	1	DF2500H-14018-B	XP4400E-147
148	Muffler Stay	1	**SEE REF NO.	XP4400E-148
149	Supporting Plate	1	**SEE REF NO.	XP4400E-149
150	Wheel ASSY	1	XP4400E-WK	XP4400E-150
151	Pin	2	DF2500H-31019-B	XP4400E-151
152	Washer 20	2	**SEE REF NO.	XP4400E-152
153	Wheel COMP	2	31017-F	XP4400E-153
154	Well Shaft	1	DF3000H-31018-F	XP4400E-154
155	Bracket	2	DF3000H-31070-E	XP4400E-155
156	Voltage Regulator	1	DF2500H-33011-A	XP4400E-156
157	Brush ASSY	1	DF3500H-33001	XP4400E-157
158	Circuit Protector (10A)	1	34208-004	XP4400E-158
159	Recharge Indicator	1	**SEE REF NO.	XP4400E-159
160	OC 12V Voltage Regulator	1	34224-001	XP4400E-160
161	Gas tube	1	**SEE REF NO.	XP4400E-161
162	Intake tube, carburetor	1	**SEE REF NO.	XP4400E-162
163	Pressure tube	1	**SEE REF NO.	XP4400E-163
164	Clip 8	2	**SEE REF NO.	XP4400E-164

EXHIBIT E



Document properties

Description

File name: XP4400EH MANUAL (REV 062612).pdf
File size: 3.4 MB
Title: XP4400EH MANUAL (REV 060512)_opt...
Author: cs732
Subject: Not available
Keywords: Not available
Created on: 6/5/2012, 5:14:39 PM
Modified on: 6/27/2012, 6:24:18 PM
Creator: Not available

Advanced

PDF producer: PDF Printer / www.bullzip.com / CP / Fr...
PDF version: 1.5
Location: C:/Users/mgross/Downloads/XP4400EH...
Page count: 31
Page size: Varies
Fast web view: No

Close

DUAL FUEL
HYBRID **XP4400EH**
★★★★★ ELITE

EXHIBIT F

DuroMax NEXT GENERATION POWER SYSTEMS XP4400EH



FEATURES:

- Clean running propane will not gum up or foul the carburetor for quick and reliable starts every time.
- Unlike gasoline, liquid propane can be stored for years.
- Flexible fuel line allows for connecting to tanks of any size.
- Designed to run on gasoline or propane for maximum convenience.
- Durable DuroMax 7.0 HP air cooled engine
- Heavy duty steel frame with four point, fully isolated motor mounts for smooth and quiet operation.
- Electric Key start for easy starting when you need it.
- Wheel kit w/ front handles for easy transporting.
- Full power panel with engine shutoff switch, volt meter, circuit breaker and power outlets.
- (2) Fully protected 120 volts outlets & (1) 120 volts/240 volts twist-lock outlet.
- Approximately 20 hour run time (propane) & 12 hour run time (gasoline)
- All steel 4 gallon fuel tank with ez-read gauge.
- Low oil shut-off protects engine.
- Super quiet muffler reduces engine noise.
- Idle control holds RPM at a constant level even under heavy loads for fuel savings and noise reduction.



*Equipped with
Sturdy Handles
& Knobby Tires*



Fully Loaded Power Panel

SPECIFICATIONS:

- Max AC Output: 4400 Watts
- Rated AC Output: 3500 Watts
- Current (120V/240V AC & 12V DC)
- (2) 120V 20A 3-prong outlets (Standard Household plug)
- (1) 120V/240V 30A twist lock (NEMA L14-30 3 Pole 4 Wire)
- Low oil shutoff.
- EPA approved engines.
- Super quiet exhaust w/ built-in spark arrestor.
- Electric Key and EZ-Pull recoil start
- 7.0 HP air cooled engine
- Fuel Tank Capacity: 4 gallon
- Decibel: 69 dBA
- Gasoline Run-Time [@ 50% Max Output]: 12.0 hrs
- Propane Run-Time [@ 50% Max Output]: 20.0 hrs



OUTLETS:

- 120V 20A 3-Prong Outlet: (Standard Plug)
- 120V 20A 3-Prong Outlet: (Standard Plug)
- 120V/240V 30A Twist Lock: (NEMA L14-30 4 Pole Wire)
- 10A 12V Utility Connection

DUAL FUEL



EXHIBIT G