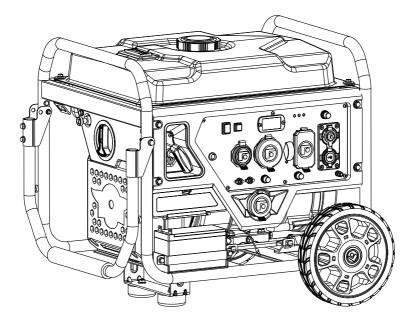


OPERATOR'S MANUAL GASOLINE INVERTER GENERATOR





Record product information to reference when ordering parts or obtaining warranty coverage.



SERIAL NUMBER:

PURCHASE DATE: _

Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information FIRMAN W03661OF INVERTER GENERATOR Firman Power Equipment 8644 W. Ludlow Dr. Peoria, AZ 85381 Telephone: 1-844-347-6261 www.firmanpowerequipment.com

FCC/IC Compliance Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1a. This device may not cause harmful interference.

1b. This device must accept any interference received, including interference that may cause undesired operation.

2. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: The FIRMAN W03661OF inverter generator has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to equipment not expressly approved by FIRMAN could void the user's authority to operate the equipment.

INTRODUCTION

Table of Contents

Introduction	01
Features and Controls	05
Operation	11
Maintenance - Storage	22
Troubleshooting- Specifications	28
Parts Diagrams - Parts Lists - Wiring Diagram	30
Service - Warranty	36

REGISTER YOUR PRODUCT

Register your product using the QR code provided or at www.firmanpowerequipment.com .



INTRODUCTION

Thank you for purchasing a FIRMAN generator. You have selected a high-quality, precision engineered generator set designed and tested to give you years of satisfactory service. This generator is designed to run only on unleaded gasoline. This generator is not intended to be run unattended or to supply power to life safety support.

This manual contains safety information to make you aware of the hazards and risks associated with generator products and how to avoid them. This generator is designed and intended only for supplying electrical power for operating compatible electrical lighting, appliances, tools and motor loads, and is not intended for any other purpose. It is important that you read and understand these instructions thoroughly before attempting to start or operate this inverter generator. Save these original instructions for future reference.

All information in this publication is based on the latest production information available at the time of approval for printing. The manufacturer reserves the right to change, alter or otherwise improve the generator and this documentation at any time without prior notice.

SIGNAL WORDS			
🛆 DANGER	\land WARNING	🛆 CAUTION	NOTICE
Indicates a hazard which, if not avoided, will result in death or serious injury.	Indicates a hazard which, if not avoided, could result in death or serious injury.	Indicates a hazard which, if not avoided, could result in minor or moderate injury.	Indicates information considered Important, but not hazard-related.



Safety Alert Symbol- Indicates a potential personal injury hazard.



Operator's Manual- Failure to follow warnings, instructions and operator's manual could result in death or serious injury.



Toxic Fumes- Engine exhaust contains carbon monoxide, a poisonous gas that will kill you in minutes. You cannot smell it or see it.



Generator could cause electrical shock resulting in death or serious injury.



Fire- Fuel and its vapors are extremely flammable which could cause burns or fire resulting in death or serious injury.Engine exhaust could cause fire resulting in death or serious injury.



Hot Surface- Muffler could cause burns resulting in serious injury.

INTRODUCTION



WARNING! This product can expose you to chemicals including gasoline engine exhaust, which is known to the State of California to cause cancer, and carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

This outdoor generator can be used to power outdoor items using extension cords . **NOTICE** If you have questions about intended use, contact FIRMAN customer service. This inverter generator is designed to be used only with FIRMAN authorized parts.

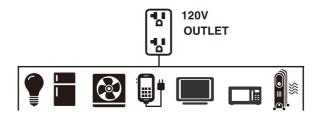
System Ground

The generator neutral is floating, which means that the AC stator winding is isolated from the grounding fastener and the AC receptacle ground pins. On a floating neutral generator the AC receptacle ground pins are not functional. Electrical devices, such as a ground fault circuit interrupter (GFCI), requiring a functioning AC receptacle ground pin will not operate.

Compliance Requirements

There may be Federal or State regulations, local codes, or ordinances that apply to the intended use of the generator. Consult a qualified electrician, electrical inspector, or the local agency having jurisdiction. This generator is not intended to be used at a construction site or similar activity as defined by NFPA 70-2020 (NEC) section 590.6.

To Restore Power Using Extension Cords



1. Only use grounded cords marked for outdoor use rated for your loads.

Image: Constrained by the second s		
Total	Minimum Gauge, Outdoor Rated	
Amperage	Up to 50 FT (15m)	
Up to 13A	16	
Up to 15A	14	
Up to 20A	12	
Up to 30A	10	

2. Follow cord safety instructions.

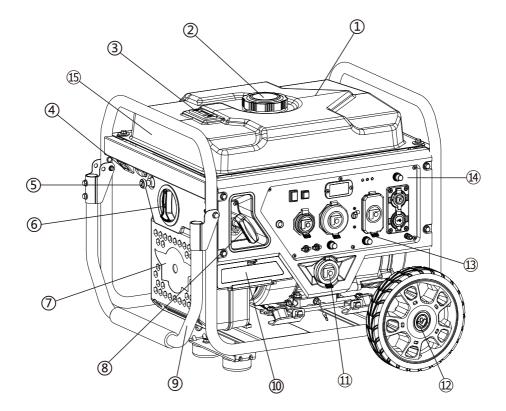
3. Install carbon monoxide alarm(s).

 When operating portable generator with extension cords, make sure portable generator is located in an open, outdoor area, at least 20 ft. (6 m) from occupied spaces with exhaust pointed away.
 Extension cords running directly into your home, powering indoor items IS NOT RECOMMENDED.



DANGER! Engine exhaust contains carbon monoxide, a poisonous gas that will kill you in minutes. You cannot smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

- Extension cords running directly into the home increase your risk of carbon monoxide poisoning through any openings.
- If an extension cord running directly into your home is used to power indoor items, the operator recognizes that this increases the risk of CO poisoning to people inside the home and assumes that risk.

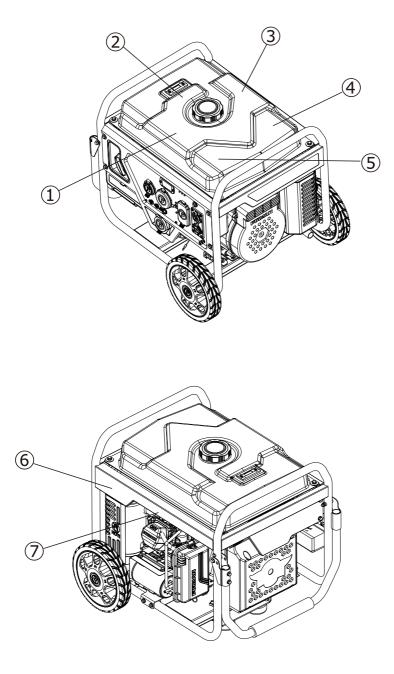


- 1- 6.0 Gallon(23L) Capacity Fuel Tank
- 2- Fuel Cap
- 3- Fuel Gauge
- 4- Bottle Opener
- 5- Choke Knob
- 6- Fuel Switch
- 7-Inverter
- 8- Recoil Starter

9- Handle

- 10- Accessory Box Parallel Cable
- 11- Adapter L5-30 to TT-30
- 12-9.0"(23cm) Flat Free Wheel
- 13- Outlet Cover
- 14- Control Panel
- 15- Data Decal / Serial Number

*We are always working to improve our products. Therefore, the enclosed product may differ slightly from the image on this page.



1

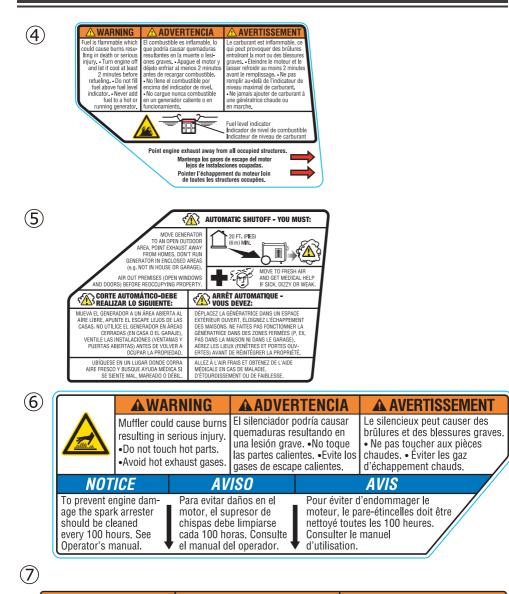
A DANGER	A PELIGRO	🛦 DANGER
Failure to follow warnings, instruc-	El incumplimiento de las advertencias, las	Le non-respect des avertissements, des
tions and operator's manual will	instrucciones y el manual del operador podría	instructions et du manuel de l'opérateur
result in death or serious injury.	provocar la muerte o lesiones graves.	entraînera la mort ou des blessures graves.
Tampering with the CO ALERT	La alteración del sistema de alerta de CO	Toute altération du système D'ALERTE du mono-
system will cause Carbon Mon-	causará envenenamiento por monóxido de	xyde de carbone causera un empoisonnement au
oxide poisoning. Install Carbon	carbono. Instale detectores de Monóxido de	monoxyde de carbone. Installez des détecteurs
Monoxide alarms inside home.	Carbono dentro de su casa.	demonoxyde de carbone à l'intérieur de la maison.
Generator could cause electrical	El generador podría producir una descarga	La génératrice peut provoquer une décharge
shock. •Do not run indoors to	eléctrica. • No utilice en interiores para evitar	électrique. • Ne pas faire fonctionner à l'intérieur
avoid wet conditions. •Do not	condiciones de humedad. • No utilice en la	pour éviter les conditions humides. • Ne pas faire
run in rain or wet weather.	Iluvia o en condiciones de humedad.	fonctionner sous la pluie ou par temps humide.
Hot exhaust gases could cause	Los gases calientes de salida podrían causar	Les gaz d'échappement chauds peuvent
fires. Keep at least 5 ft.(1.5m)	incendios. Manténgase a una distancia mínima	provoquer des incendies. Garder une distance
clearance from any combustibles	de 1.5m de cualquier combustible o estructura,	d'au moins 5 pieds (1,5 m) de tout combustible
or structures, incluing overhead.	incluyendo lugares elevados.	ou de toute structure, y compris au-dessus.

NOTICE	AVISO	AVIS
	Operar, almacenar y transportar en una superficie firme y nivelada.	Faire fonctionner, entreposer et transporter sur une surface plane et ferme.
• Tilting can cause fuel spillage.	 Inclinarlo puede causar un derrame de combustible. 	• Le basculement peut provoquer des déverse- ments de carburant.

3

2

A DAN	NGER	A PEL	IGRO	🛦 DA	NGER	
Using a generator ind IN MINUTES. Generat carbon monoxide. T cannot see	tor exhaust contains 'his is a poison you	PROVOCARLA MUERTE EN CUESTIÓN DE MINUTOS. Los gases del generador contienen o monóxido de carbono, el cual es una sustancia		PROVOCARÍA MUERTE EN CUESTIÓN DE TUER EN ŎUELQUES MINUTES. L MINUTOS. Los gases del generador contienen d'échappement du générateur cont monóxido de carbono, el cual es una sustancia monoxyde de carbone. Ceci est un		VINUTES. Les gaz érateur contiennent du . Ceci est un poison
Use inside a home or garage, EVEN IF doors and windows are open.	Only use ■ → OUTSIDE and far away from windows, doors,	No utilice NUNCA el gen- erador en el interior de su hogar ni enun garaje, NI SIQUIERA con las puert- as y ventanas abiertas.	LIBRE y lejos de ventanas, puertas y orificios de	dans un garage ou à l'intérieur, MÊME avec les portes et les	distance de toutes	



FOR RESIDENTS OF CALIFORNIA	PARA LOS RESIDENTES DE CALIFORNIA	POUR LES RÉSIDENTS DE LA CALIFORNIE
WARNING: This product and the engine exhaust from this product can	ADVERTENCIA: Este producto y el escape del motor de este producto pueden exponerlo	AVERTISSEMENT: Ce produit et l'échappement du moteur de ce produit peuvent
expose you to chemicals including	a productos químicos, incluido CO, que en el	vous exposer à des produits chimiques, y
CO, which are known to the State of	estado de California son conocidos por causar	compris le CO, qui sont connus par l'État de
California to cause cancer or cause	cáncer o causar defectos de nacimiento u	Californie pour causer le cancer ou causer des
birth defects and other reproductive	otros daños reproductivos. Para obtener más	malformations congénitales et autres problèmes

harm. For more information, go to

www.P65Warnings.ca.gov.

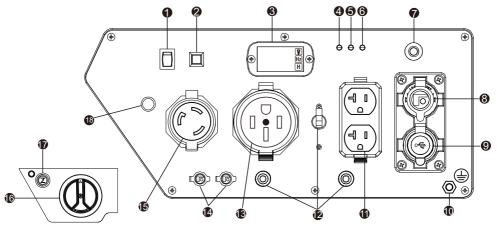
información, vaya a www.P65Warnings.ca.gov.

de reproduction. Pour plus d informations,

visitez www.P65Warnings.ca.gov.

FEATURES AND CONTROLS

Control Panel



NOTICE Total power drawn from all receptacles must not exceed the data decal rating.

1. Economy Control Switch - The Economy Control switch can be activated in order to minimize fuel consumption and noise while operating the unit during times of reduced electrical output, allowing the engine speed to idle during periods of non-use. The engine speed returns to normal when an electrical load is connected. When the economy switch is off, the engine runs at normal speed continuously.

2. AC Reset Button - When the inverter is protected, the output can be restored by this button.

3. 3-1 Data-Minder (Multi-Meter) - Push the SELECT button to show the Voltage, Hertz and running hours.

4. **Oil Warning Indicator Light** – Check oil level when this light turns "ON". Engine will not run when indicator is on. When the oil falls below the minimum level, the oil warning indicator light comes on and the engine stops automatically. The engine will not start until the proper amount of oil is in the crank case.

5. **Overload Indicator Light** - This light turns "ON" when the generator is overloaded and will cut power to the receptacles. If the engine overload indicator light comes on, the generator's wattage / amperage capacity has been exceeded by connected electrical devices . When this occurs, the green AC Power Indicator Light will go off. The engine will continue to run, but the red Engine Overload Indicator Light will stay on and power will no longer be supplied to connected electronic devices.

6. **Output Ready Indicator Light** – Remains "ON" during normal operating conditions. Shuts "OFF" when generator is overloaded. The green AC Power Indicator Light comes on when the engine starts and generates power.

7. DC Circuit Breaker - If the DC output is overloaded or an external short circuit occurs the circuit protector will trip.

8. **DC 12V Output -** 8.3 Amps of DC current may be drawn from this receptacle. Use this outlet to charge 12V automotive type batteries ONLY. See 12V DC outlet (Battery Charger) section.

English

9. DC 5V 2.1/1.0A USB Outlet

10. **Ground Terminal** - Consult an electrician or authority having jurisdiction for local grounding requirements.

11. 120V, 20A Duplex - NEMA 5-20R (Not GFCI protected)
 A maximum of 20 Amps current may be drawn from this duplex receptacle.

12. **Circuit Breakers** – The receptacles are protected by AC circuit protectors. If the generator is overloaded or an external short circuit occurs, a circuit protector may trip. If tripping occurs, disconnect all electrical loads and determine the cause before attempting to continue using the generator. Reset any tripped circuit protectors.

If multiple receptacles are used at the same time, the total current must be kept with-in the portable generator data decal rating.

13. 120V, 50A RV - NEMA 14-50R (Not for 240V use)

A maximum of 30.4 Amps current may be drawn from this receptacle.

14. **Parallel Operation Outlets -** These outlets are used for connecting two FIRMAN inverter generators for parallel operation. A FIRMAN parallel kit(optional equipment) is required for parallel operation.

15. **120V, 30A Twist Lock** - NEMA L5-30R

A maximum of 30 Amps current may be drawn from this receptacle.

16. **Fuel Switch -** Fuel valve is open when the switch is in the "I" position. When the switch is in the "O" position, the fuel valve is closed.

17. Choke Knob - Used to start a cold engine.

18. CO Alert™ Carbon Monoxide (CO) Shutdown Indicator Light – Indicates the engine shutdown due to carbon monoxide accumulation around the generator or a CO Alert system fault occurred.

1.Location



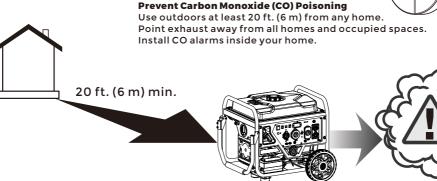
DANGER! Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You CANNOT smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

- Operate portable generator only outdoors, at least 20 ft.(6 m) from occupied spaces with exhaust pointed away to reduce the risk of carbon monoxide accumulating.
- Install battery-operated carbon monoxide alarms or plug-in carbon monoxide alarms with battery back-up according to the manufacturer's instructions. Smoke alarms cannot detect carbon monoxide gas.
- Do not run this portable generator inside homes, garages, basements, crawlspaces, sheds, or other partially-enclosed spaces even if using fans or opening doors and windows for ventilation. Carbon monoxide can quickly build up in these spaces and can linger for hours, even after this product has shut off.
- If you start to feel sick, dizzy, weak or your home's carbon monoxide alarm sounds, get to fresh air right away. Call emergency services. You may have carbon monoxide poisoning.

Carbon Monoxide Alarm(s)

Install carbon monoxide alarms inside your home. Without working carbon monoxide alarms, you will not realize you are getting sick and dying from carbon monoxide poisoning.





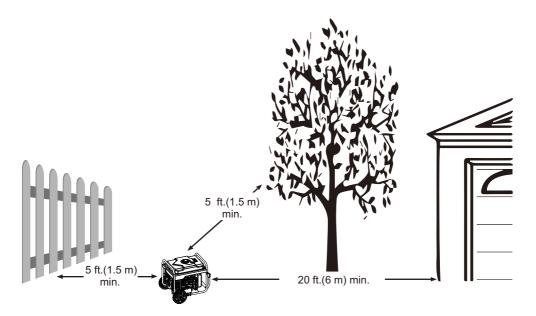
To better educate yourself about all carbon monoxide risks, go to www.takeyourgeneratoroutside.com.

Reduce Risk of Fire



WARNING! Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death or serious injury.

- Keep portable generator at least 5 ft. (1.5 m) from any structure, trees or vegetation over 12 in. (30 cm) in height.
- Select an outdoor site that is dry and protected from the weather. Do not move portable generator indoors to protect it from the weather.
- Do not locate the portable generator under a deck or other similar structure that may confine heat and airflow.

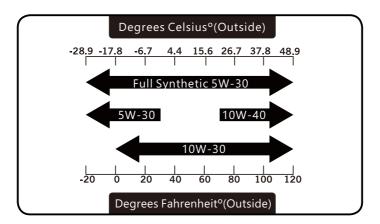


2. Oil and Gasoline

Add Engine Oil

We recommend using FIRMAN SAE 10W-30 API SJ oil for best performance. Other high-quality detergent oils (API SJ or higher) are acceptable. Do not use special additives. Ambient temperature determines the proper oil viscosity for the engine. Use the chart to select the proper oil for the outdoor temperature range expected.

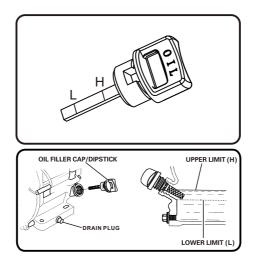
NOTICE Do not attempt to crank or start the engine before it has been properly filled with the recommended type and amount of oil. Damage due to operation with no oil will void your warranty.



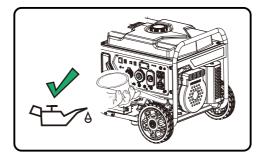
1. Place generator on a flat, level surface.

2.Clean area around oil fill and remove yellow oil fill cap/dipstick.

3.Wipe dipstick clean.



4. Using oil funnel, slowly pour contents of provided oil bottle into oil fill opening until oil reaches upper limit "H" mark on the dipstick. Be careful not to overfill. Overfilling could cause engine starting problems or engine damage.



5.Replace oil fill cap/dipstick and fully tighten.

6.Oil level should be checked prior to each use or at least every 8 hours of operation. Keep oil level maintained.

Low Oil Shutdown

The portable generator is equipped with a low oil shutdown. If the oil level drops below the minimum required level, a sensor will activate an internal switch stopping the engine. If the engine shuts off and the oil level is within specifications, check to see if generator is sitting at an angle. Place portable generator on an even surface to correct this. If engine fails to start, the oil level may not be high enough to deactivate the internal low oil level switch. Make sure the sump is completely full of oil to the upper limit (H). Do not operate engine until oil level issue is corrected. Contact Firman customer service.

Add Gasoline



WARNING! Fuel and its vapors are extremely flammable which could cause burns or fire resulting in death or serious injury.

- Turn generator engine OFF and let it cool at least 2 minutes before removing fuel cap.
- Do Not refuel or move generator when engine is running.
- Move generator outdoors prior to adding or draining fuel
- Keep fuel away from any ignition sources.
- Do not overfill tank, allow space for fuel expansion.
- If any fuel spills, wait until it evaporates before starting engine
- Check and replace fuel lines, tank, cap, and fittings prior to each use if any damage or leaks are found.

Fuel must meet these requirements:

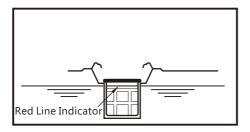
- Clean, fresh, unleaded gasoline with a minimum of 87 octane.
- For high altitude use, see Operation at High Altitude.
- Gasoline with no more than 10% ethanol is acceptable.



NOTICE Do not mix oil in gasoline or modify engine to run on alternate fuels not described in this manual. Use of unapproved fuels could damage engine and will not be covered under warranty.

1. Clean area around fuel fill cap, remove cap.

2. Slowly add unleaded fuel to fuel tank. Be careful not to fill above the RED fuel level indicator. This allows adequate space for fuel expansion.





3. Install fuel cap and let any spilled fuel evaporate before starting engine.

Operation at High Altitude

At altitudes over 5,000 feet(1524 meters), a minimum 85 octane gasoline is acceptable. Engine power and generator output will be reduced approximately 3.5% for every 1000 feet (305 m) of elevation above sea level. High altitude may cause hard starting, increased fuel consumption and sparkplug fouling. To operate at high altitudes FIRMAN can provide a high altitude carburetor main jet. The alternative main jet and installation instructions can be obtained by contacting Customer Support.

	208cc	Altitude
Altitude main jet 1	336717007	3000-6000Feet
Altitude main jet 2	336717008	6000-8000Feet

NOTICE Operation using an alternative main jet at elevations lower than the recommended minimum altitude can damage the engine. For operation at lower elevations, the standard main jet supplied must be used. Operating the engine with the wrong main jet may increase exhaust emissions, fuel consumption and reduce performance.

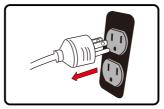
Operation at High Ambient conditions

Your Firman Power Equipment product is designed and rated for continuous operation at ambient temperatures up to 104°F (40°C). The generator may be operated at temperatures ranging from 5°F(-15°C) to 122°F(50°C) for short periods. If the generator is exposed to temperatures outside this range during storage, the generator should be brought back within this range before operation. When operated above 77°F(25°C) there may be a decrease in power. Maximum wattage and current are subject to and limited by such factors as ambient temperature, altitude, engine conditions etc.

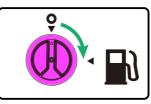
3.Starting the Generator

 Before starting the generator, check for loose or missing parts and for any damage which may have occurred during shipment. Ensure spark plug, muffler, fuel cap, and air cleaner are all in place.
 Move portable generator outdoors to safe operating location at least 20 feet from any occupied spaces.

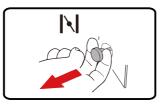
3. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in.



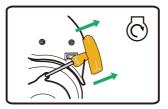
4. Turn the fuel switch to the "**ON**" (I)position.



5. Pull the choke knob to the "CHOKE" position. You do not need to choke a warm engine.



6. Pull the starter cord slowly until resistance is felt and then pull rapidly to start engine.



7. Do not over-choke. As soon as engine starts and warms up, move the choke knob to the "RUN" position.



8. Allow portable generator to run at no load for a few minutes to stabilize before plugging in any electrical devices.

NOTICE If engine starts but fails to run, or if portable generator shuts down during operation, check oil level. See Low Oil Shutdown section for more information.

4. Connecting Electrical Loads

This inverter generator has been pretested and adjusted to handle its full capacity.

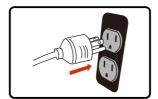


WARNING! Generator voltage could cause electrical shock or burn resulting in death or serious injury.

- Damaged or overloaded extension cords could overheat, arc, and burn resulting death or serious injury.
- Use a ground fault circuit interrupter (GFCI) in any damp or highly conductive area, such as metal decking.
- Do not touch bare wires or receptacles.
- Do not use generator with electrical cords which are worn, frayed, bare or otherwise damaged.
- Do not operate generator in the rain or wet weather.
- Do not run indoors to avoid wet conditions.
- Do not handle generator or electrical cords while standing in water, while barefoot, or while hands or feet are wet.

1.Ensure circuit breaker on control panel is in the closed (on) position.

- 2. Start the generator with no electrical load attached.
- 3. Allow the engine to run for several minutes to stabilize.
- 4. Plug in and turn on the first item. It is best to attach the item with the largest load first.
- 5. Allow the engine to stabilize.
- 6. Plug in and turn on the next item.
- 7. Allow the engine to stabilize.
- 8. Repeat steps 5-6 for each additional item.



Surge Protection

There is a remote chance that voltage fluctuations may impair the proper functioning of some sensitive electronic equipment. Electronic devices, including computers and many programmable appliances may use components that are designed to operate within a narrow voltage range and may be affected by the portable generator's momentary voltage fluctuations. While there is no way to prevent all voltage fluctuations, you can take steps to protect your sensitive electronic equipment. Install a plug-in surge suppressor on the receptacles feeding your sensitive equipment. Surge suppressors come in single or multi-outlet styles. They are designed to protect against short duration voltage fluctuations.

Economy Control Switch

The Economy Control switch can be activated in order to minimize fuel consumption and noise while operating the unit during times of reduced electrical output, allowing the engine speed to idle during periods of non-use. The engine speed returns to normal when an electrical load is connected. When the economy switch is off, the engine runs at normal speed continuously.



NOTICE

For periods of high electrical load or momentary fluctuations, the Economy Control Switch should be turned OFF.

12V DC Outlet (Battery Charger)

The 12V DC outlet is ONLY to be used with the supplied 12V battery charging cable. The DC output is unregulated and will damage other 12V DC products.

The amount of current flowing will depend on the charging voltage and battery's state of charge. As the battery becomes more fully charged, the output current to the battery decreases and nearly becomes constant. Taper chargers are intended to be used with the provision that they will be disconnected from the battery after a maximum time on charge. Normally a period of 30 to 120 minutes is sufficient to recharge a weak battery. The charge level of the battery should be checked periodically.

NOTICE

- For use with 12V direct current outlet, always keep the ECO mode deactivated (OFF Position).
- You can use the 12V direct current outlet and the 230V current at the same time, but keep the ECO mode deactivated (OFF Position) at all times.

Do not start the vehicle while the battery charging Cable is connected and the generator is running. It will not give the battery a boost of power. The Vehicle or the generator may be damaged. Charge only vented wet lead acid batteries. Other types of batteries may burst, causing personal injury or damage.

English

WARNING!

- Storage batteries give off EXPLOSIVE hydrogen gas while charging. Do not allow smoking, open flames, sparks, or spark producing equipment in the area while charging.
- Battery electrolyte fluid is comprised of sulfuric acid that can be very dangerous and cause severe burns. Do not allow this fluid to contact eyes, skin, clothing, etc. If contact or spillage does occur, flush the area with water immediately.
- Do not continue to charge a battery that becomes hot or is fully charged.

1. Before connecting the battery charging cable to a battery that is installed in a vehicle, disconnect the vehicle battery ground cable from the negative (-) battery terminal.

- 2. Plug the battery charging cable into the DC receptacle of the generator.
- 3. Connect the red (+) battery charger lead to the red (+) battery terminal.
- 4. Connect the black (-) battery charger lead to the black (-) battery terminal.
- 5. Start the generator.

CO Alert[™]

Carbon Monoxide (CO) Shutdown System

CO Alert automatically shuts down the engine when harmful levels of carbon monoxide accumulate around the generator or a CO Alert fault occurs. After shutdown, the CO Alert indicator light will blink for at least five minutes per the chart below.

CO Alert DOES NOT replace carbon monoxide alarms.

Install battery-powered carbon monoxide alarm(s) in your home. Don't run generator in enclosed areas.

Color	Description
Red ●●●●●	Carbon monoxide accumulated around generator. Prior to restart move generator to an open, outdoor area 20 ft. (6 m) from occupied spaces with exhaust pointed away. Air out premises (open windows and doors) before reoccupying property. Automatic shutoff is an indication generator was improperly located. If you start to feel sick, dizzy, weak, or your homes carbon monoxide alarm sounds while using this product, get to fresh air right away. Call emergency services. You may have carbon monoxide poisoning.
Yellow ●● ●●	CO Alert fault occured*. See FIRMAN authorized service dealer.

*Yellow light will blink for five seconds at the startup of generator to show CO ALERT is functioning properly.

English

5. Stopping the generator

1. Turn off and remove all electrical loads.

Never stop the generator with electrical devices plugged in and turned on. Never stop the engine by moving the choke to the start position.



Let the generator run at no-load for one minute to stabilize internal temperatures of the engine and generator.

2. Flip the fuel switch to"OFF"(O) position.



NOTICE If a cover is used, do not install until unit has cooled.

Low Oil Shutdown

If the engine oil drops below a preset level, an oil switch will stop the engine. Check oil level with dipstick.

If oil level is between the LOW and HIGH mark on dipstick:

1.DO NOT try to restart the engine.

2.Contact an Authorized FIRMAN Service Dealer.

3.DO NOT operate engine until oil level is corrected.

If oil level is below the **LOW** mark on dipstick:

1.Add oil to bring level to HIGH mark.

2.Restart engine and if the engine stops again a low oil condition may still exist. DO NOT try to restart the engine.

3.Contact an Authorized FIRMAN Service Dealer.

4.DO NOT operate engine until oil level is corrected.

Do Not Overload Generator

Overloading a generator in excess of its rated wattage capacity can result in damage to the generator and to connected electrical devices. To prolong the life of your generator and attached devices, follow these steps to add electrical load:

1. Start the generator with no electrical load attached.

- 2. Allow the engine to run for several minutes to stabilize.
- 3. Plug in and turn on the first item. It is best to attach the item with the largest load first.
- 4. Allow the engine to stabilize.
- 5. Plug in and turn on the next item.
- 6. Allow the engine to stabilize.
- 7. Repeat steps 5-6 for each additional item.

Overload Operation

The overload indicator light will blink when the load exceeds 3750W(approximately) and cut power to the receptacles in 30 seconds . If the load exceeds 3850W(approximately), the light will turn on and cut power to the receptacles in 2 seconds.

How to Correct

1. Disconnect any electrical devices, and then stop the engine.

- 2. Reduce the total wattage of connected electrical devices until it is within the generator's rated output.
- 3. Inspect the Air Inlet and Control Panel for any blockage. Remove blockage if found.
- 4. Restart Engine.

Parallel Operation

Any two FIRMAN inverter generators with parallel ports, including two FIRMAN inverters model W03661OF can be paralleled to increase the total available electrical power to 6000 Watts. A FIRMAN Parallel kit (not included) is required for parallel operation. For Kit availability, call customer Service at 1-844-347-6261 or visit: www.firmanpowerequipment.com.

ITEM	NOTES	Daily(Before operation)	Initial 25 hours	Every 50 hours	Every 100 hours (or annual)	Every 250 hours
Spark Plug	Check condition. Adjust gap and clean. Replace if necessary.				\checkmark	
	Check oil level.	\checkmark				
Engine Oil	Replace.		\checkmark		\checkmark	
Air Filter	Clean, replace if necessary.			\checkmark		
Fuel	Clean fuel tank strainer. Replace if necessary.				\checkmark	
Fuel Line	Check fuel hose for cracks or other damage. Replace if necessary.	\checkmark				
Exhaust	Check for leakage. Retighten or replace gasket if necessary.	\checkmark				
System	Check spark arrester screen. Clean/Replace if necessary.				\checkmark	
Engine	Check adjust valve clearance. *					\checkmark
	Clean combustion chamber. *					\checkmark
Fittings/ Fasteners	Check. Replace if necessary.				\checkmark	

MAINTENANCE SCHEDULE

 * To be performed by knowledgable/experienced owner or by authorized service center.

General Recommendations

Regular maintenance will improve the performance and extend the life of the generator. See any authorized dealer for service.

The generator's warranty does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain the generator as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your generator. All service and adjustments should be made at least once each season. Follow the requirements in the maintenanc shedule chart above.

NOTICE Once a year you should clean or replace the spark plug and replace the air filter. New spark plug and clean air filter assure proper fuel-air mixture and help your engine run at peak performance and last longer.

When Transporting Generator

Transport with fuel tank EMPTY or with fuel switch in OFF position. Do not tip generator at an angle which causes fuel to spill.

ENGINE MAINTENANCE

To prevent accidental starting, remove and ground spark plug wire before performing any service.

Change Engine Oil

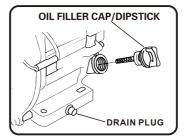
Change engine oil every 100 hours. (for a new engine, change oil after 25 hours.) If you are using your generator under extremely dirty or dusty conditions, or in extremely hot weather change the oil more often.

CAUTION! Avoid prolonged or repeated skin contact with used motor oil. Used motor oil has been shown to cause skin cancer in certain laboratory animals. Thoroughly wash exposed areas with soap and water.

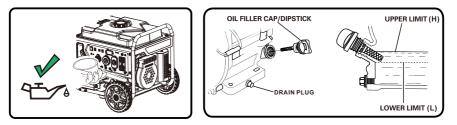


KEEP OUT OF REACH OF CHILDREN. DON'T POLLUTE. CONSERVE RESOURCES. RETURN USED OIL TO COLLECTION CENTERS.

(a) On a level surface drain oil into a suitable container by removing the drain plug and the oil filler cap while the engine is warm.



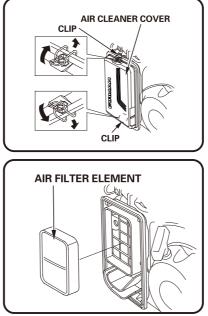
(b) Reinstall the drain plug and fill the engine with oil until it reaches the HIGH(H) level on the oil filler dipstick.



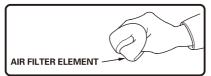
NOTICE We recommend using FIRMAN SAE 10W-30 API SJ oil for best performance. Other highquality detergent oils (API SJ or higher) are acceptable. See *Oil and Gasoline*

Air Filter Maintenance

(a) Carefully remove foam air filter element and wash it with liquid detergent and water only. Squeeze dry in a clean cloth.



(b) Saturate foam air filter element with clean engine oil and squeeze in a clean cloth to remove excess oil.



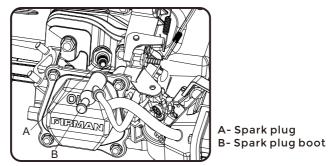
(c) Reinstall clean or new air filter element.

Spark Plug Maintenance

Changing the spark plug will help your engine start easier and run at peak performance.

(a) Remove the spark plug boot.

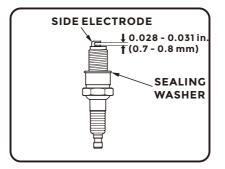
(b) Remove spark plug using provided wrench.



(c) Inspect spark plug for damage and clean with a wire brush before reinstalling. Replace if damaged.

(d) Adjust the electrode gap to 0.028 - 0.031 in. (0.7 - 0.8 mm).

- (e) Seat spark plug in position and thread by hand to prevent cross threading.
- (f) Tighten plug with provided wrench and put the spark plug boot back on spark plug.



SPARK PLUG: TORCH F6RTC, NGK BPR6ES, CHAMPION RN9YC or equivalent.

Maintenance Valve Clearance

Intake: 0.004 - 0.006 in. (0.10 - 0.15 mm) Exhaust: 0.004 - 0.006 in. (0.10 - 0.15 mm)

Muffler and Spark Arrester

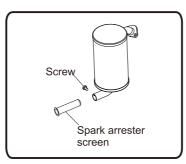


WARNING! Contact with muffler area could cause burns resulting in serious injury.

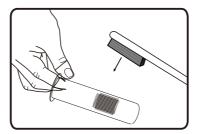
- Do not touch hot parts.
- It is a violation of California Public Resource Code, Section 4442, to use or operate the engine on any forest-covered, brush-covered, or grass-covered land unless the exhaust system is equipped with a spark arrester, as defined in Section 4442, maintained in effective working order. Other states or federal jurisdictions may have similar laws, reference Federal Regulation 36 CFR Part 261.52.

Inspect Muffler and Spark Arrester

1.Inspect the muffler for cracks, corrosion, or other damage. 2.Remove the screw securing the spark arrester in place and then remove it from muffler.



3. Carefully remove the carbon deposits from the spark arrester screen with a wire brush.



4. Replace the spark arrester if it is damaged. If replacement parts are required, make sure to use only FIRMAN original equipment replacement parts.

5. Position the spark arrester in the muffler and attach with the screw.

NOTICE Failure to clean or replace spark arrester may result in decreased engine performance.

GENERATOR MAINTENANCE

Run the generator at least 30 minutes every month.

Make certain that the portable generator is kept clean and dry.

Do not expose the unit to excessive dust, dirt, moisture or corrosive vapors.

Do not insert any objects through cooling slots.

Before each use inspect underneath the generator for signs of oil or fuel. Clean any accumulated debris. Keep area around muffler free from any debris. Use a soft bristle brush to remove dirt or caked on oil. Use a damp cloth to clean all exterior surfaces.

Long Term Storage

It is important to prevent gum deposits from forming in essential fuel system components such as the carburetor, fuel hoses or tank during storage. Ethanol-blended fuels (called gasohol, ethanol or methanol) attract moisture, which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

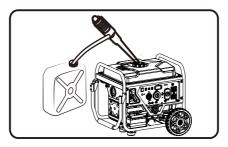
When the generator set is being stored for more than one month, follow these instructions to avoid engine problems:



WARNING! Fuel and its vapors are extremely flammable which could cause burns or fire resulting in death or serious injury.

Do not store fuel near any ignition sources.

When draining fuel move generator outdoors and use a commercially available non-conductive vacuum siphon. Fuel must be drained into an approved container.



1-Treat any stored fuel with fuel stabilizer.

2-When storing generator with gasoline in fuel tank, operate the engine for 5-10 minutes to circulate treated fuel into fuel lines and carburetor before shutdown.

3- There is no need to drain gasoline from the generator fuel tank if fuel stabilizer is added. 4-FUEL STARVATION: If you elect to drain fuel tank move generator outdoors. Once fuel tank is drained turn fuel valve to on position. Start and run the portable generator outdoors until engine stops from lack of gasoline. This will drain remaining gasoline from tank, fuel lines, and carburetor. 5-Always turn fuel valve to OFF position prior to storage.

6-Allow the portable generator to cool before cleaning and storage.

7-Change oil .

8-Remove spark plug boot and spark plug. Pour about one teaspoon of engine oil through the spark plug hole, then slowly pull the recoil starter several times to distribute the oil in the cylinder Pull recoil slowly until resistance is felt. This will close the valves so no moisture enters the engine cylinder. Reinstall the spark plug and attach the spark plug boot.

9-Cover the portable generator and store in a clean, dry place out of direct sunlight and away from any ignition sources.

Any damage or hazards caused by using improper fuel, improperly stored fuel, and/or improperly formulated stabilizers, are not covered by manufacturer's warranty.

Do not store gasoline from one season to another season.

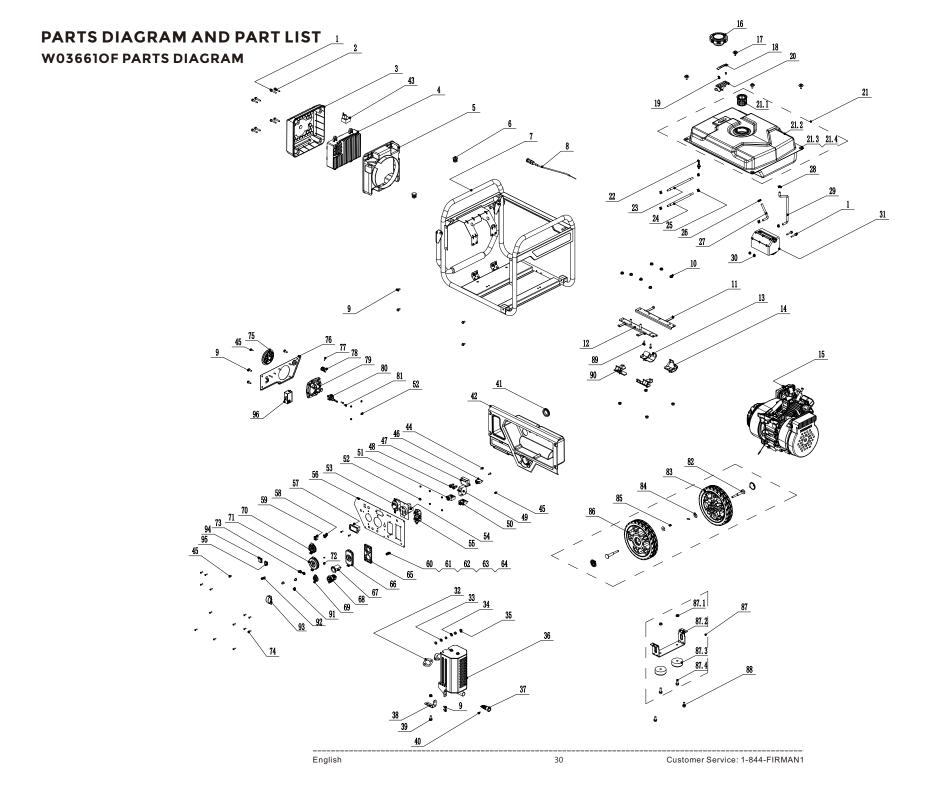
Problem	Cause	Correction		
 Engine is running, but no AC output is available. 1. Circuit breaker is open. 2. Fault in generator. 3. Poor connection or defective cord is 4. Connected device is bad. 5. Overload. 		 Reset circuit breaker. Contact authorized service facility. Check and repair. Connect another device that is in good condition. Shut off engine, reduce electrical load, and restart. 		
Engine runs good at no-load but "bogs down" when loads are connected.1. Short circuit in a connected load. 2. Engine speed is too slow. 3. Shorted generator circuit. 4. Clogged or dirty fuel filter.		 Disconnect shorted electrical load. Contact authorized service facility. Contact authorized service facility. Clean or replace fuel filter. 		
 Low oil level. Dirty air cleaner. Out of gasoline. Stale gasoline. Stale gasoline. Spark plug. Bad spark plug. Water in gasoline. Flooded. Excessively rich fuel mixture. Clogged or dirty fuel filter. 		 Fill crankcase to proper level or place generator on level surface. Clean or replace air cleaner. Fill fuel tank with gasoline. Drain fuel tank and carburetor; fill with fresh gasoline. Connect wire to spark plug. Replace spark plug. Drain gas tank and carburetor; fill with fresh gasoline. Wait 5 minutes and re-crank engine. Contact authorized service facility. Clean or replace fuel filter. 		
Engine lacks power.	1. Load is too high. 2. Dirty air filter. 3. Clogged or dirty fuel filter. 4. Clogged spark arrester.	 Don't Overload Generator Replace air filter. Clean or replace fuel filter. Clean or replace spark arrester. 		
Engine"hunts"or falters.	 Carburetor is running too rich or too lean. Clogged or dirty fuel filter. 	 Contact authorized service facility. Clean or replace fuel filter. 		
Engine shuts down when running.		 Fill fuel tank with gasoline. Clean or replace air cleaner. Fill crankcase to proper level or place. generator on level surface. 		
Engine shuts down and yellow CO fault light blinking.		1. Contact authorized FIRMAN service facility.		

For all other issues, contact authorized dealer or Firman customer service.

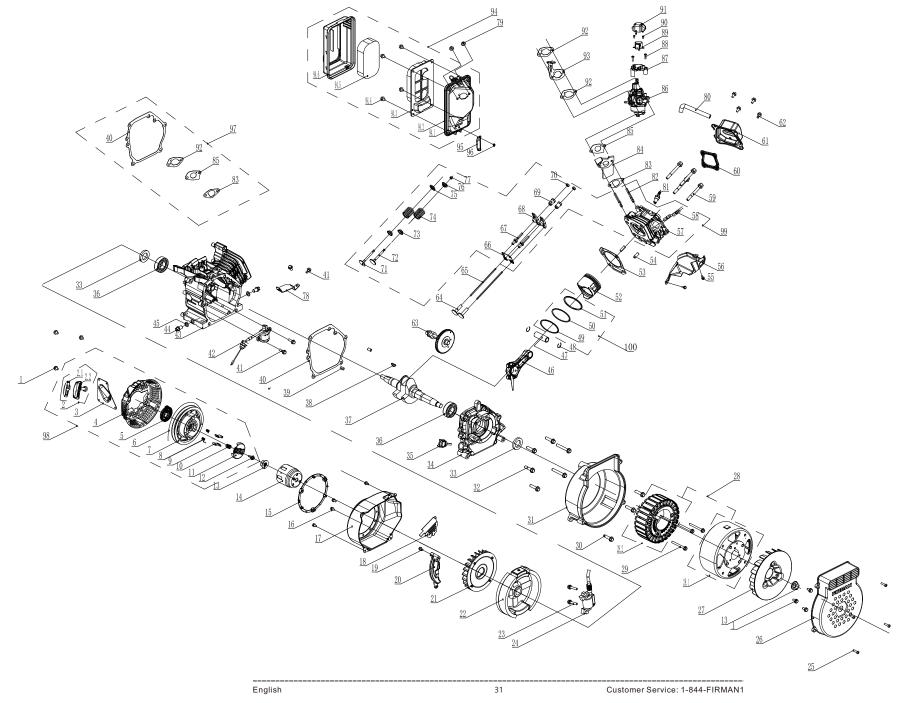
SPECIFICATIONS

Model	W03661OF
Starting Watts	4500
Running Watts*	3650
Rated AC Voltage	120V
Rated Fequency	60Hz
Phase	Single
Voltage Regulator	Digital
Power Factor	1
Total Harmonic Distortion(THD)	<3%
Alternator Type	Magneto Inductor
Engine	FIRMAN
Engine Type	Single Cylinder, 4-Stroke OHV Air Cooled
Displacement	208cc
Low Oil Shutdown	Yes
Ignition System	Breakless Ignition Type, Flywheel Magneto
Starting System	Recoil
Fuel	Unleaded Automotive Gasoline
Capacity Fuel Tank	6 U.S. Gallons (23L)
Lubricating Oil Capacity	20.3 oz (0.6L)
Carburetor Type	Float
Air Cleaner	Polyurethane Type
P.T.O. Shaft Rotation	Counter Clockwise (Facing P.T.O.)
Oil Type	See "Add Engine Oil" Section
AC Grounding System	Neutral Floating

*Generator certified in accordance with CSA (Canadian Standards Association) standard C22.2No. 100-14, Motors and Generators and complies with PGMA (Portable Generator Manufacturers' Association) standard ANSI/PGMA G300-2018, Safety and Performance of Portable Generators.



208cc ENGINE PARTS DIAGRAM



W03661OF Portable Generator

		D	Ot			D :	<u></u>
	Part Number		Qty.		Part Number	•	Qty.
1		Flange Bolt M6×35	6	51		Circuit Breaker Amp 30A	1
-		Flange Bolt M6×25	4	52	330713596		10
3		Inverter Cover I		53		Receptacle L5-30R	1
4	336728305		1			Receptacle 14-50R	1
5		Inverter Cover II	1	55		Receptacle 5-20R	2
6	336728307		2	56		Control Panel	1
7		Frame Assy	1	57		Multi Meter	1
8		Choke Knob Assy	1	58		AC Reset Button	1
9		Flange Bolt M6×12	14	59		Switch, Economy	1
10	336718315		13	60		Flange Bolt M5×16(ground)	1
11	336718373		1	61		Nut M5(ground)	1
12	336718374		1	62	336718325		1
13	336427006		2	63		Flat Washer Ø5	2
14	336427007		1	64		Star Washer Ø5	1
15		Engine Subassembly	1	65		Receptacle Fix Board	1
16	340413002		1	66		Outlet Cover 5-20R	1
17		Bolt M6×20	4	67		Receptacle DC Lighter Style	
18		Fuel Gauge Display	1	68		Receptacle & Usb	1
19		Screw M5×10	2	69		Dc Outlet Cover	1
20	336718382	Fuel Gauge Assy.	1	70	336713573	Outlet Cover L14-30R	1
21	336418305	Fuel Tank Assy.	1	71		Outlet Cover TT-30R	1
		Fuel Filter, Wire Mesh	1	72	336718368	Screw&washer Assy M3×6	2
21.2	336413002	Fuel Tank	1	73	330713602	Outlet Cover	2
21.3	357713600	Bushing	4	74	336718369	Flange Bolt M4×14	4
21.4	336713542	Grommet, Fuel Tank	4	75	336713815	Fuel Selector Switch	1
22	336713807	Hose,Fuel, Connector	1	76	336418309	Operate Panel Assy	1
23	336728308	Hose,Fuel	1	77	336713820	Bolt St2.9×32	1
24	336728309	Hose,Fuel	1	78	336713821	Micro Switch 1	1
25	330713508	Clamp Ø10.5×8	4	79	336718381	Multi-function Switch Seat	1
26	330713509	Clamp Ø8.7×8	2	80	336418310	Fuel Valve	1
27	336713680	Pipe	1	81	336718370	Screw&washer Assy M4×20	2
28	336713540	Clamp Ø8×6	2	82	336717016	Axle Comp	2
29	336713635	Pipe	1	83	340728302	Wheel	1
30	336718314		2	84	336717017	Flat Washer Ø10	2
31		Carbon Canister(450cc)	1	85	336717018	Pin, Shaft	2
32	336717014	Auspuffdichtung	1	86	340728303	Wheel	1
33	336713533	Flat Washer Ø8	2	87	336717019	Support Leg Assy	1
34		Lock Washer Ø8	2	87.1	336718313		2
35	336717015		2			Support Leg	1
36		Muffler Assembly	1			Rubber, Support	2
37		Spark Arrester	1			Flange Bolt M6×25	2
38		Muffler Bracket	1	88		Flange Bolt M8×16	2
39		Flange Bolt M8×20	1	89		Flange Bolt M8×35	4
40		Bolt ST4.2×9.5	1		336427008		1
41	336728309		1	91		Circuit Breaker Cover	3
42		Control Panel Base	1	92		Indicator Light	1
43	330713574		1			Circuit Breaker Cover	1
44		Flange Bolt M5×14	2			Switch Cover	1
45		Screw&washer Assy M4×14				Switch Cover	1
46		D.C 10A Breaker	1		336755000		1
40		Speed Limiter	1				
48		Parallel Ports	2				
40		Circuit Breaker Amp 50A	1				
50		Circuit Breaker Amp 20A	1				
		en care breaker Amp 20A	· ·		1		

English

FIRMAN 208cc Engine

		Description	Qty.	L NIO	Part Number	Description	Qty.
1	Part Number	Description Flange Bolt M6×15	6	47		Pin, Piston	1
		Grip,starter	1	47		Clip, Piston Pin	2
		Handle Core	i	40		Ring Set, Oil	1
		Recoil Starter Knob	1	50		Ring, The Second	1
		Handle Guide Plate	1	51		Ring, The First	1
-		Case Comp., recoil Starter	$\frac{1}{1}$	52	336723518		1
		Spring, starter Return	$\frac{1}{1}$	52		Gasket, Cylinder Head	1
	336467004		1	54			2
		Pulley, recoil Starter	1	55		Locating Pins Flange Bolt M6×8	2
		Spring,patchet	2	56		Air Guide Lower	1
-		Patchet,starter	2	50		Head Subassembly, Cylinder	1
		Clip Sprg.,pawl Guide	2			Exhaust Valves Stud Bolt	2
		Pawl Guide	1	58			
		Screw,pawl Guide	1	59		Flange Bolt M8×55	4
	330713555		2	60		Gasket, Cylinder Head Cover	1
			2	61		Cover Subassembly, Cylinder Head	
		Pulley,starter Protect Circle		62		Flange Bolt M6×15	4
		Flange Bolt M6×12	1	63		Gear Assy, Governor	1
			4	64		Tappet, Valve	2
		Fan Cover Comp	1	65	340718302		2
18	336718387	Windshield I Flange Bolt M6×20	1	66		Plate Subassembly, Lifter Stopper	
			1	67		Bolt, Valve Adjusting	2
		Air Guide, Right Side	1	68		Rocker, Valve	2
		Cooling Fan	1	69		Nut Valve Adjusting	2
		Flywheel Comp	1	70		Nut, Valve Lock	2
23	357723569	Bolt	2	71		Valve,in.take	1
24	336467006	Ignition Coil	1	72		Valve, Exhaust	1
25	336718364	Bolt M5×20	4	73	1	Oil Seal,valve	2
26	336718389	Cover Alternator	1	74		Spring,valve	2
27	330713554	Generator Fan	1	75		Retainer, Intake Valve	1
28	336457014	Alternator Assy	1	76		Retainer, Exhaust Valve	1
28.1	336418313	Rotor	1	77		Rotator, Valve	1
28.2	336418314	Stator	1	78		Windshield Ii	1
29	336718384	Flange Bolt M6×60	3	79	336713517		2
30	336718330	Flange Bolt M6×20	3	80		Breather Tube	1
31	336728312	Alternator Rear Cover	1	81	336723556		1
32	336723514	Flange Bolt M8×32	6	82		Stud, Intake	2
33	336723513	Seal, Oil	2	83		Gasket, Inlet	1
34	336718390	Cover, crankcase	1	84		Plate, Carburetor Insulato	
35	336723511	Oil Dipstick Assy	1	85		Gasket, Carburetor	1
36	336723505	Bearing	2	86		Carburetor	1
37	336718391	Crankcase Assy	1	87		Step Moter Assy	1
38	336723507	Woodruff Key	1	88		Bolt M4×14	2
39	336723501	Locating Pins	2	89		Step Moter Assy	1
40	336723510	Gasket, Crankcase	1	90	380713542		2
41	336718301	Flange Bolt M6×12	4	91		Step Moter Cover	1
42	340718300	Sensor, Engine Oil	1	92		Gasket, Air Cleaner	1
43	336718395	Crankcase Subassembly.	1	93		Choke Lever Bracket Assy	1
44	336723546	Bolt, Drain Plug	2	94		Air Cleaner Set	1
45	336723545	Washer, drain Bolt Rod, Connecting	2			Elbow, Air Cleaner	1
46		Ded Courseting	11	10/ 2	776720702	Sealing Ring	1

NO	Part Number	Description	Qty.
94.3	336723558		1
94.4	336723559	Mounting Bolt, Air Cleaner	4
94.5		Element, Air Cleaner	1
94.6	336723561	Cover, Air Cleaner	1
95	336713527	Air Cleaner Bracket	1
96		Flange Bolt M6×8	1
97	336418315	Gasket Assy	1
98	336428304	Starter Assy	1
99	335425590	Cylinder Head Assy	1
100	340418306	Ring Assy	1

YELLOW ഞ്ഞ ALTERNATOR BLOCK DC COIL AC COIL ന്നാന 000000 SUB COIL STEPPER MOTOR ٢ **א א צ** BRIDGE CONTROL UNIT MULTI METER IRCUIT BRE SPARKING 3 k -00000 3 đ 00000 ത æ GREEN 8 RESET THELAST UNIT 5 Ì ARALLEL PORTS Ø 0 ECO.SI OIL LEVEL SW Э CUIT BR UTTON CONTROL BOX BLOCK SM2 LED MODULE a Ο G/Y \cap ENGINE BLOCK 6/Y 5 GROUND ٥٧ , si G 5 5 ₿ CO INDICATOR LIGHT ĕ8

Wiring Diagram

FOR SERVICE INFORMATION CONTACT FIRMAN PRODUCT SERVICE DEPARTMENT AT 1-844-347-6261 or at www.firmanpowerequipment.com to obtain warranty service information or to order replacement parts or accessories.

HOW TO ORDER REPLACEMENT PARTS

Even quality-built equipment such as this electric generator may need occasional replacement parts to maintain it in good condition over the years. To order replacement parts, please give the following information:

- Model No. Rev. Level and Serial No. found on the data decal.
- Parts number or numbers as shown in the Parts List section.
- A brief description of the trouble with the generator.

FIRMAN Three (3) Year Limited Warranty

Warranty Qualifications

Register your product using the QR code provided or at www.firmanpowerequipment.com. FIRMAN will also register the warranty upon receipt of your Warranty Registration Card and a copy of your sales receipt from one of FIRMAN's retail locations as proof of purchase. Please submit your warranty registration and your proof of purchase within ten(10) days of the date of purchase.



Repair/Replacement Warranty

FIRMAN warrants to the original purchaser that the mechanical and electrical components will be free of defects in material and workmanship for a period of one(1) year (parts and labor) and three(3) years (parts and technical support) from the original date of purchase 90 days [parts and labor] and 180 days [parts] for commercial & industrial use. Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser . This warranty only applies to the original purchaser and is not transferable.

Do Not Return the Unit to the Place of Purchase

Contact the FIRMAN Service Center and FIRMAN will troubleshoot any issue via phone or e-mail. If the problem is not corrected by this method, FIRMAN will, at its option, authorize evaluation, repair or replacement of the defective part or component at a FIRMAN Service Center. FIRMAN will provide you with a case number for warranty service. Please keep it for future reference. Repairs or replacements without prior authorization, or at an unauthorized repair facility, will not be covered by this warranty.

Warranty Exclusions

This warranty does not cover the following repairs and equipment.

Normal Wear

Your product needs periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole.

Installation, Use and Maintenance

This warranty will not apply to parts and/or labor if your product is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond the generator's limits, modified, installed improperly or connected incorrectly to any electrical component. Normal maintenance is not covered by this warranty.

Other Exclusions

This warranty excludes:

- cosmetic defects such as paint, decals, etc.
- wear items
- accessory parts
- failures due to acts of God and other force majeure events beyond the manufacturer's control
- problems caused by parts that are not original FIRMAN parts
- units used for prime power in place of existing utility power where utility is present or in place of utility power where utility power service does not normally exist.

Limits of Implied Warranty and Consequential Damage

FIRMAN disclaims any obligation to cover any loss of time, use of this product, freight, or any incidental or consequential claim by anyone from using this product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANT ABLILITY OR FITNESS FOR A PARTICULAR PURPOSE.

A unit provided as an exchange will be subject to the warranty of the original unit. The length of the warranty governing the exchanged unit will remain calculated by reference to the purchase date of the original unit.

This warranty gives you certain legal rights which may change from state to state. Your state may also have other rights you may be entitled to that are not listed within this warranty.

Contact Information

You may contact FIRMAN at:

Address

Firman Power Equipment Inc. Attn: Customer Service 8644 W. Ludlow Dr. Peoria, AZ 85381 www.firmanpowerequipment.com

We are FIRMAN POWER - And we are here for you.

FIRMAN POWER EQUIPMENT INC. Emission Control System Warranty

CALIFORNIA AND FEDERAL EXHAUST AND EVAPORATIVE EMISSIONS CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board, US Environmental Protection Agency ("US EPA") and FIRMAN POWER EQUIPMENT INC.(FIRMAN) are pleased to explain the emissions control systems warranty on your 2022-2023 or later Small Off-Road Engine ("SORE") and engine powered equipment. In California, new equipment that use small off-road engines must be designed, built and equipped to meet the State's stringent anti-smog standards. FIRMAN must warrant the emissions control systems on your SORE and engine powered equipment for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your small off-road engine or equipment leading to the failure of the emissions control system. Your emissions control system may include parts such as the carburetor or fuel-injection system, the ignition system, catalytic components. Also included may be hoses, belts, connectors, and other emission-related assemblies.

Where a warrantable condition exists, FIRMAN will repair your SORE and engine powered equipment at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

The exhaust and evaporative emissions control system on your small off-road engine and engine powered equipment is warranted for two years. If any emissions-related part on your small off-road engine and engine powered equipment is defective, the part will be repaired or replaced by FIRMAN.

OWNER'S WARRANTY RESPONSIBILITIES:

As the SORE and engine powered equipment owner, you are responsible for the performance of the required maintenance listed in your operator's manual. FIRMAN recommends that you retain all receipts covering maintenance on your SORE and engine powered equipment, but FIRMAN cannot deny warranty coverage solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the SORE and engine powered equipment owner, you should however be aware that FIRMAN may deny you warranty coverage if your small off-road engine or engine powered equipment or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine and engine powered equipment to a FIRMAN distribution center or service center as soon as the problem exists. The warranty repairs shall be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact FIRMAN at 1-844-347-6261.

FIRMAN Emission Control Defects Warranty Provisions

The warranty period begins on the date the engine/equipment is delivered to an ultimate purchaser. FIRMAN warrants to the ultimate purchaser and each subsequent purchaser that the engine is:

Designed, built, and equipped so as to conform with all applicable regulations adopted by the Air Resources Board and US EPA; and Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to the part as described in the engine manufacturers application for certification.

The warranty on emissions-related parts is as follows:

(1) Any warranted part that is not scheduled for replacement as required maintenance in the owner's manual supplied, is warranted for the warranty period stated above. If any such part fails during the period of warranty coverage, the part will be repaired or replaced by FIRMAN at no charge to the owner. Any such part repaired or replaced under the warranty will be warranted for the remaining warranty period.

(2) Any warranted part that is scheduled only for regular inspection in the owner's manual supplied, is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
(3) Any warranted part that is scheduled for replacement as required maintenance in the owner's manual supplied, is warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement point for the owner. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement, the part will be warranted for the remainder of the period prior to the first scheduled or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part or the owner. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the first scheduled replacement point for the part. (4) Repair or replacement of any warranted part under the warranty must be performed at no charge to the owner at a warranty station.

(5) Notwithstanding the provisions of Subsection (4) above, warranty services or repairs must be provided by FIRMAN that are franchised to service the subject engines.

(6) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.

(7) FIRMAN is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part.

(8) Throughout the emissions warranty period defined in Subsection (b)(2), FIRMAN will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

(9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of the manufacturer.

(10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claim.

The manufacturer will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

PARTS COVERED BY WARRANTY

Listed below are the parts (if equipped) covered by the Federal and California Emission Control System Warranty.

1. Ignition system including: 4. Air induction system including: - Spark plug - Intake pipe/manifold - Ignition coil - Air cleaner 2. Fuel metering system: 5. Crankcase breather assembly including: - Fuel tank - Breather connection tube - Fuel cap 6. Fuel tank evaporative emission control system including: - Fuel lines (for liquid fuel and fuel vapors) and - Purge valves related fittings/clamps - Carbon canister - Fuel regulator, carburetor and internal parts. - Vapor hoses and fitting/clamps 3. Catalytic muffler assembly including: - Exhaust manifold - Catalytic converter - Muffler gasket -pulse valve

Limitations

This Emission Control System Warranty shall not cover any of the following:

(a) Consequential damages such as loss of time, inconvenience, loss of use of the engine or equipment, etc.

(b) Diagnosis and inspection fees that do not result in eligible warranty service being performed.

FIRMAN POWER EQUIPMENT INC.

www.firmanpowerequipment.com

FOLLOW US ON SOCIAL MEDIA

USE

E V E R Y G E N E R A T O R T E L L S A S T O R Y[™]

FOR YOUR CHANCE TO WIN FIRMAN SWAG



FIRMAN POWER EQUIPMENT INC. 8644 W. LUDLOW DR. PEORIA, AZ 85381 1-844-347-6261 WWW.FIRMANPOWEREQUIPMENT.COM

All rights reserved. Any reprinting or unauthorized use without the written permission is expressly prohibited. P/N:336747079 Rev:01