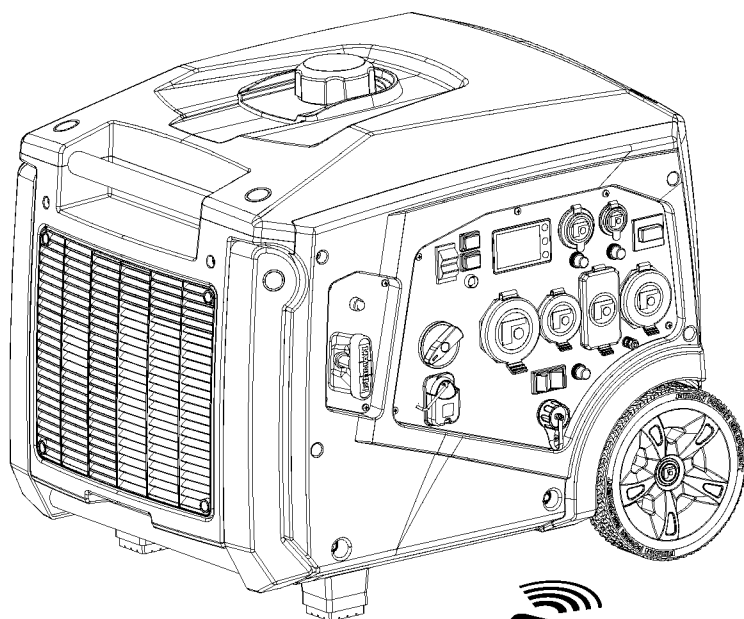


FIRMAN[®]

OPERATOR'S MANUAL PORTABLE INVERTER GENERATOR



MODEL NUMBER

W06383

Rev Level:01

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 W06383 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 W06383 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.

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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	 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 or to restore home power using a transfer switch. A transfer switch is a separate device installed by a licensed electrician that allows the portable generator to be cord connected, using either of the 120/240V receptacles, directly into your home's electrical system. Install a listed transfer switch as soon as possible if this generator will be used to restore power to your home.

NOTICE If you have questions about intended use, contact FIRMAN customer service. This portable generator is designed to be used only with FIRMAN authorized parts.

System Ground

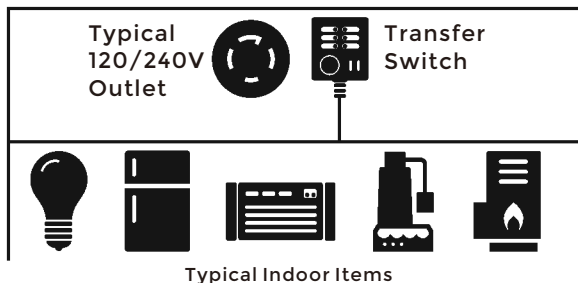
The generator has a system ground that connects the generator frame components to the ground terminals on the AC output receptacles. The system ground is connected to the AC neutral wire. The neutral is bonded to the generator frame.

Compliance Requirements

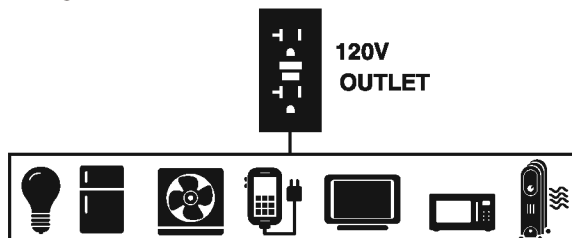
There may be Federal or State regulations, local codes, or ordinances that apply to the intended use of the generator. Consult a qualified electrician, electrical inspector, or the local agency having jurisdiction. This generator is not intended to be used at a construction site or similar activity as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

To Restore Home Power Using a Listed Transfer Switch

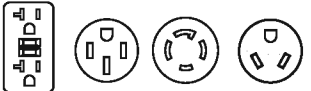
Connections to your home's electrical system must use a listed* transfer switch installed by a licensed electrician. The connection must isolate the generator power from the utility power and comply with all applicable laws and electrical codes.



To Restore Power Using Extension Cords



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

 To provide power using extension cords	
Total Amperage	Minimum Gauge, Outdoor Rated
	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).
4. When operating portable generator with extension cords, make sure portable generator is located downwind in an open, outdoor area, at least 20 ft. (6 m.) from occupied spaces with exhaust pointed away.
5. Extension cords running directly into your home, powering indoor items IS NOT RECOMMENDED.

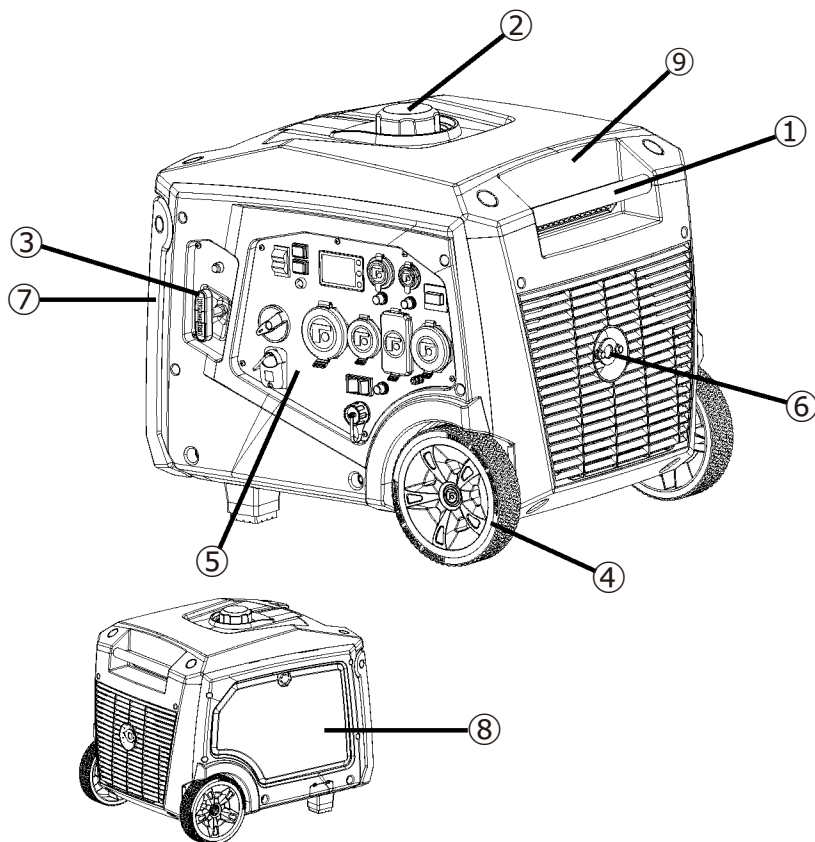


DANGER! Engine exhaust contains carbon monoxide, a poisonous gas that will kill you in minutes. You cannot smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

- 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.
6. Install a listed *transfer switch as soon as possible if this or any generator will be used to restore power to your home.

*Certified by a Nationally Recognized Testing Laboratory that the product complies to appropriate product safety test standards.

FEATURES, CONTROLS AND ON -PRODUCT HAZARD LABELS



- 1- Fixed Carrying Handle**
- 2- Fuel Cap**
- 3- Recoil Starter**
- 4- Never Flat Wheel**
- 5- Control Panel**
- 6- Muffler/Spark Arrester**
- 7- Folding Handle**
- 8- Maintenance Cover**
- 9- Data Decal / Serial Number**

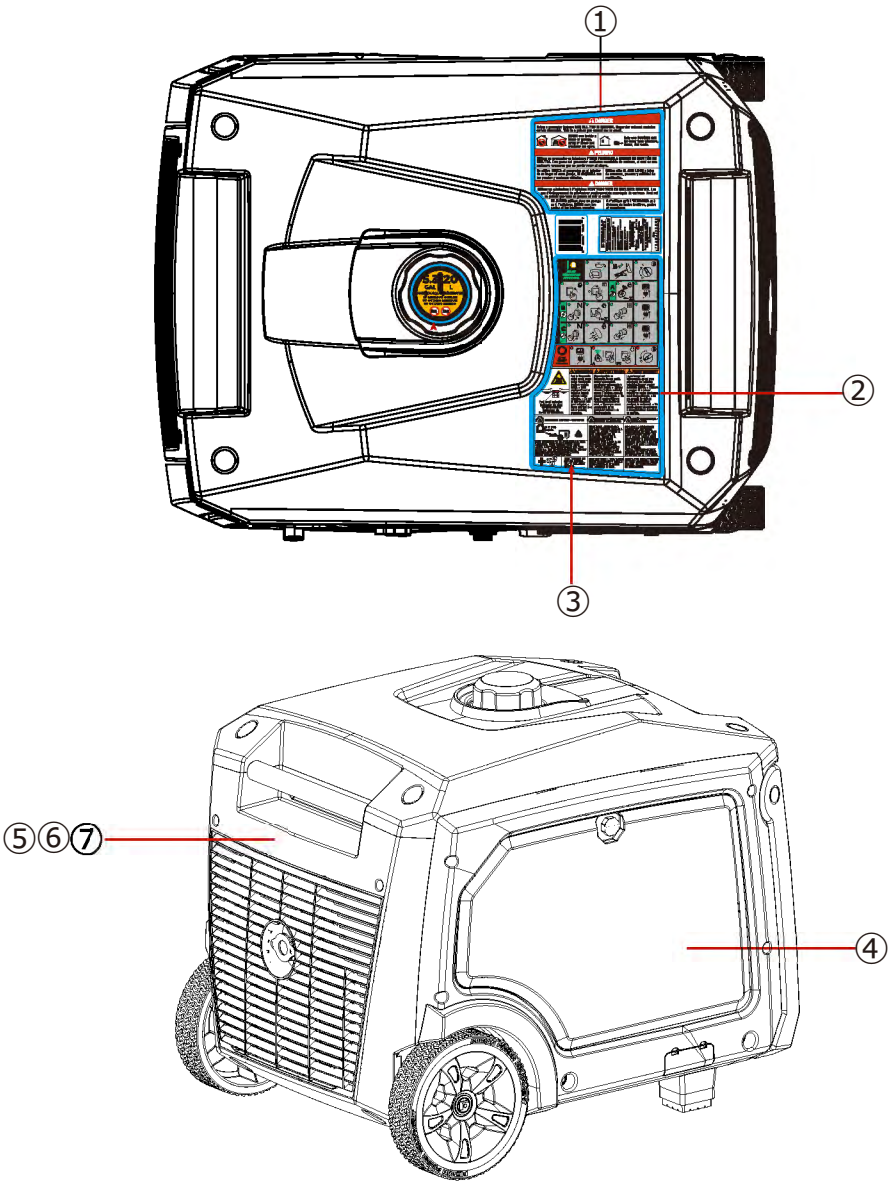
***We are always working to improve our products. Therefore, the enclosed product may differ slightly from the image on this page.**

FEATURES, CONTROLS AND ON -PRODUCT HAZARD LABELS

LOCATION AND CONTENT OF ON-PRODUCT HAZARD LABELS

FREE WARNING LABEL REPLACEMENT

If hazard labels become illegible or are missing, contact FIRMAN customer service for a free replacement.



FEATURES, CONTROLS AND ON -PRODUCT HAZARD LABELS

①

⚠ DANGER		
Using a generator indoors CAN KILL YOU IN MINUTES . Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell .		
	NEVER use inside a home or garage, EVEN IF doors and windows are open.	
Only use OUTSIDE and far away from windows, doors, and vents.		
⚠ DANGER		
Utiliser un générateur à l'intérieur PEUT VOUS TUER EN QUELQUES MINUTES . Les gaz d'échappement du générateur contiennent du monoxyde de carbone. Ceci est un poison que vous ne pouvez ni voir ni sentir.		
NE JAMAIS utiliser dans un garage ou à l'intérieur, MÊME avec les portes et les fenêtres ouvertes.		À n'utiliser qu'à L'EXTÉRIEUR et à distance de toutes fenêtres, portes et ouvertures.
⚠ PELIGRO		
Utilizar un generador en interiores PUEDE PROVOCAR LA MUERTE EN CUESTIÓN DE MINUTOS . Los gases del generador contienen monóxido de carbono, el cual es una sustancia venenosa que no puede verse ni olerse.		
No utilice NUNCA el generador en el interior de su hogar ni en un garaje, NI SIQUIERA con las puertas y ventanas abiertas.		Utilice SÓLO AL AIRE LIBRE y lejos de ventanas, puertas y orificios de ventilación.

② ③

	⚠ WARNING	⚠ AVERTISSEMENT	⚠ ADVERTENCIA
Fuel level indicator Indicateur de niveau de carburant Indicador de nivel de combustible	Fuel is flammable which could cause burns resulting in death or serious injury. • Turn engine off and let it cool at least 2 minutes before refueling. • Do not fill fuel above fuel level indicator. • Never add fuel to a hot or running generator.	Le carburant est inflammable, ce qui peut provoquer des brûlures entraînant la mort ou des blessures graves. • Éteindre le moteur et le laisser refroidir au moins 2 minutes avant le remplissage. • Ne pas remplir au-delà de l'indicateur de niveau maximal de carburant. • Ne jamais ajouter de carburant à une génératrice chaude ou en marche.	El combustible es inflamable, lo que podría causar quemaduras resultantes en la muerte o lesiones graves. • Apague el motor y déjelo enfriar al menos 2 minutos antes de recargar combustible. • No llene el combustible por encima del indicador de nivel. • No cargue nunca combustible en un generador caliente o en funcionamiento.
	⚠ AUTOMATIC SHUTOFF - YOU MUST:	⚠ ARRÊT AUTOMATIQUE - VOUS DEVEZ:	⚠ CORTE AUTOMÁTICO-DEBE REALIZAR LO SIGUIENTE:
6 m / 20 ft / 20 pi	MOVE GENERATOR TO AN OPEN OUTDOOR AREA DOWNWIND, POINT EXHAUST AWAY FROM HOMES. DON'T RUN GENERATOR IN ENCLOSED AREAS (e.g. NOT IN HOUSE OR GARAGE). AIR OUT PREMISES (OPEN WINDOWS AND DOORS) BEFORE REOCCUPYING PROPERTY.	DÉPLACEZ LA GÉNÉRATRICE PORTABLE À L'EXTÉRIEUR, DANS LE SENS DU VENT, AVEC L'ÉCHAPPEMENT DIRIGÉ LOIN DE LA MAISON. NE PAS FAIRE FONCTIONNER LA GÉNÉRATRICE DANS DES ESPACES CLOS (PAR EXEMPLE, NI DANS LA MAISON NI LE GARAGE). AÉRER LES LOCAUX (OUVREZ FENÊTRES ET PORTES) AVANT DE REOCCUPER LA PROPRIÉTÉ.	TRASLADÉ EL GENERADOR A UNA ZONA EXTERIOR ABIERTA A FAVOR DEL VIENTO Y ALEJE EL TUBO DE ESCAPE DE LAS VIVIENDAS. NO UTILICE EL GENERADOR EN ÁREAS CERRADAS (POR EJEMPLO, NO EN LA CASA O EL GARAJE). VENTILE LAS INSTALACIONES (ABRA LAS VENTANAS Y LAS PUERTAS) ANTES DE VOLVER A OCUPAR LA PROPIEDAD.
	MOVE TO FRESH AIR AND GET MEDICAL HELP IF SICK, DIZZY OR WEAK.	ALLEZ À L'AIR FRAIS ET OBTENEZ DE L'AIDE MÉDICALE EN CAS DE MALADIE, D'ÉTOURDISSEMENT OU DE FAIBLESSE.	UBÍQUESE EN UN LUGAR DONDE CORRA AIRE FRESCO Y BUSQUE AYUDA MÉDICA SI SE SIENTE MAL, MAREADO O DÉBIL.

FEATURES, CONTROLS AND ON -PRODUCT HAZARD LABELS

④

⚠ DANGER		⚠ DANGER		⚠ PELIGRO	
		Failure to follow warnings, instructions and operator's manual will result in death or serious injury.		Le non-respect des avertissements, des instructions et du manuel de l'opérateur entraînera la mort ou des blessures graves.	
		Tampering with the CO ALERT system will cause Carbon Monoxide poisoning. Install Carbon Monoxide alarms inside home.		La altération du système d'ALERTE du monoxyde de carbone causera un empoisonnement au monoxyde de carbone. Installez des détecteurs de monoxyde de carbone à l'intérieur de la maison.	
		Generator could cause electrical shock. • Do not run indoors to avoid wet conditions. • Do not run in rain or wet weather. • Transfer switch must be used when connecting to a home's electrical system.		El generador podría producir una descarga eléctrica. • No utilice en interiores para evitar condiciones de humedad. • No utilice en la lluvia o en condiciones de humedad. • Es necesario usar un interruptor de transferencia cuando se conecta al sistema eléctrico de una casa.	
		Hot exhaust gases could cause fires. Keep at least 5ft clearance from any combustibles or structures, including overhead.		Les gaz d'échappement chauds peuvent provoquer des incendies. Gardez au moins 5 pi de dégagement de tout combustible ou de toute structure, y compris au-dessus.	
		NOTICE Operate, store and transport on firm level surface. • Tilting can cause fuel spillage.		AVIS Faire fonctionner, entreposer et transporter sur une surface ferme et horizontale. • L'inclinaison peut causer un déversement de carburant.	
		AVISO Operar, almacenar y transportar en una superficie firme y nivelada. • Inclinarlo puede causar un derrame de combustible.		AVISO Operar, almacenar y transportar en una superficie firme y nivelada. • Inclinarlo puede causar un derrame de combustible.	
322cc 1050ml / 35.5fl.oz		Add lubricant to full mark to start. Engine will not start or will shut off if sensor detects low lubricant.		Pour commencer, ajouter du lubrifiant jusqu'à la marque. Le moteur ne démarra pas ou s'arrêtera si le capteur détecte un manque de lubrifiant.	
				Añada lubricante hasta la marca de lleno para arrancar. El motor no arranca o se apaga si el sensor detecta el nivel de lubricante de baja.	

⑤

NOTICE	AVIS	AVISO
To prevent engine damage the spark arrester should be cleaned every 100 hours. See Operator's manual.	Pour éviter d'endommager le moteur, le pare-étincelles doit être nettoyé toutes les 100 heures. Consulter le manuel d'utilisation.	Para evitar daños en el motor, el supresor de chispas debe limpiarse cada 100 horas. Consulte el manual del operador.

⑥



Point engine exhaust away from all occupied structures.

Pointer l'échappement du moteur loin de toutes les structures occupées.

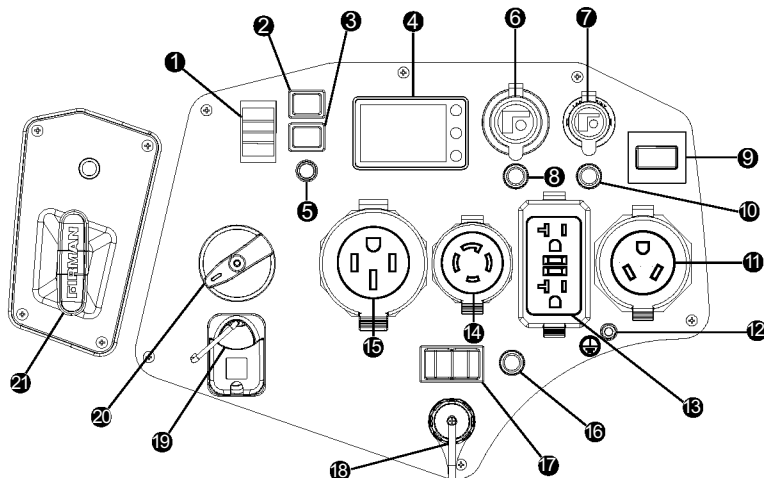
Mantenga los gases de escape del motor lejos de instalaciones ocupadas.



⑦

	⚠ WARNING	Muffler could cause burns resulting in serious injury.
	⚠ AVERTISSEMENT	Le silencieux peut causer des brûlures et des blessures graves.
	⚠ ADVERTENCIA	El silenciador podría causar quemaduras resultando en una lesión grave.

Control Panel



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

1. Engine Start Switch - To start engine, press and hold the switch in the START (II) position, the engine will crank and attempt to start. When the engine starts, release the switch to the RUN (I) position.

2. 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.

3. Battery Power Restore Switch

4. Intelligauge with LED Screen - The screen can show the Voltage, Hertz, Power, running hours, Fault alarm, regular maintenance, low oil alarm and remaining running time.

5. 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.

6. USB-C Output/Input Port

Devices that charge through a USB-C port, such as a MacBook Pro, Android phone, or other devices can be charged by the USB-C port (5V, 9V, 12V, 15V & 20V output 60W maximum.).

The battery can be charged through USB-C port. USB-C charging input supports 5V/3A input 15W maximum.

7. 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.

8. 20A Circuit Breaker - The receptacles are protected by AC circuit protectors.

9. 30A Circuit Breaker - 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.

FEATURES, CONTROLS AND ON -PRODUCT HAZARD LABELS

10. **DC Circuit Breaker** – The DC receptacles are protected by an DC circuit protector. If the DC output is overloaded or an external short circuit occurs the circuit protector will trip.

11. **120V, 30A RV** – NEMA TT-30R

A maximum of 26.3 Amps current may be drawn from this receptacle.

12. **Ground Terminal** – Consult an electrician or authority having jurisdiction for local grounding requirements.

13. **120V, 20A Duplex GFCI** (Ground Fault Circuit Interrupter)- NEMA 5-20R

A maximum of 20 Amps current may be drawn from this duplex receptacle.

14. **120/240V, 30A** – NEMA L14-30R

A maximum of 26.3 Amps current may be drawn from this receptacle.

15. **120/240V, 50A** – NEMA 14-50R

A maximum of 47.3 Amps current may be drawn from this receptacle (**Parallel Operation**).

16. **30A Circuit Breaker** – The receptacles are protected by AC circuit protectors.

17. **Voltage Selector Switch** – To select between 120 Volt or 240 Volt. When you select the 120 Volt, only 120V single voltage sockets 5-20R and TT-30R have outputs. When you select the 240 Volt, only 240V dual-voltage sockets L14-30R and 14-50R have outputs.

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

19. **Remote Holder** – to hold remote control for easy access.

20. **Fuel Valve Knob**

21. **Recoil Starter**

FEATURES, CONTROLS AND ON -PRODUCT HAZARD LABELS

Intelligauge Display Screen



 E  F	Remaining fuel
	Display value
V	Voltage
P	Power
F	Frequency
	Total run time
	Remaining run time
	Generator maintenance required
	Low oil level
	CO Alert alarm
ECO 	ECO mode (no load, low idle speed)
	Change to show the Voltage, Hertz, Power , Running hours and remaining running time.
	When you need to change the remote control, you can use this button to match with generator.
	Restore output after generator overloaded and clear maintenance icon flashing after the maintenance

1. Location

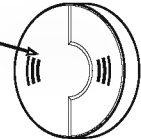


DANGER! Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You CANNOT smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

- Operate portable generator only outdoors and downwind 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)

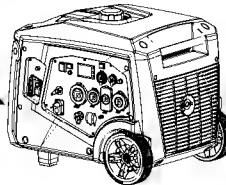
Install carbon monoxide alarms inside your home. Without working carbon monoxide alarms, you will not realize you are getting sick and dying from carbon monoxide poisoning.



Prevent Carbon Monoxide (CO) Poisoning

Use outdoors and downwind at least 20 ft. (6 m) from any home.
Point exhaust away from all homes and occupied spaces.
Install CO alarms inside your home.

20 ft. (6 m) min.



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

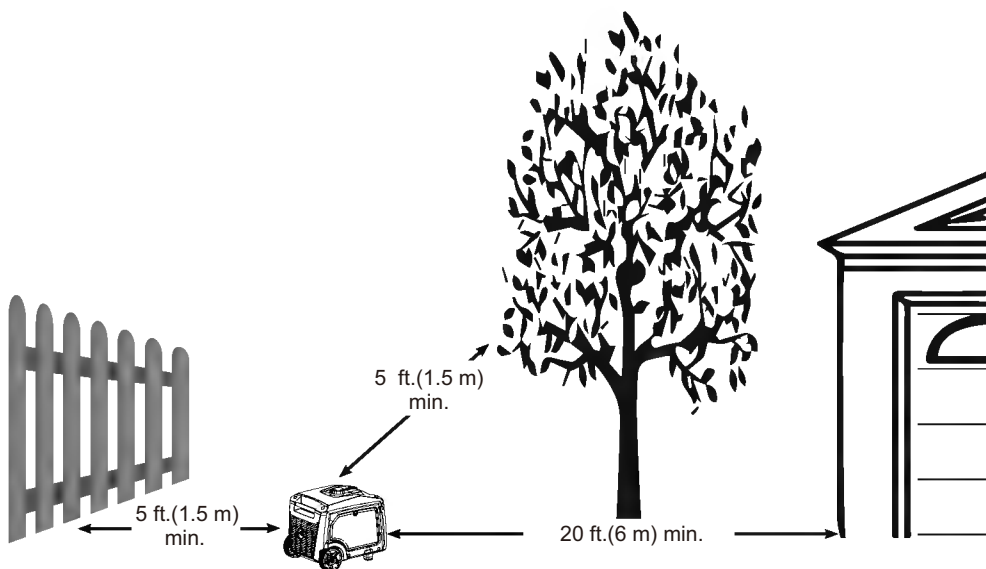
OPERATION

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.

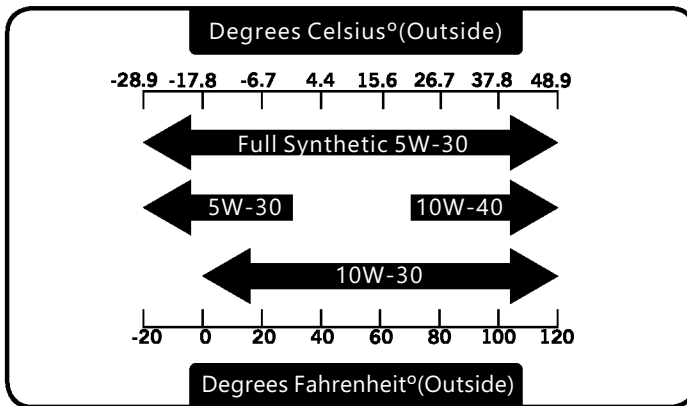


2. Oil and Gasoline

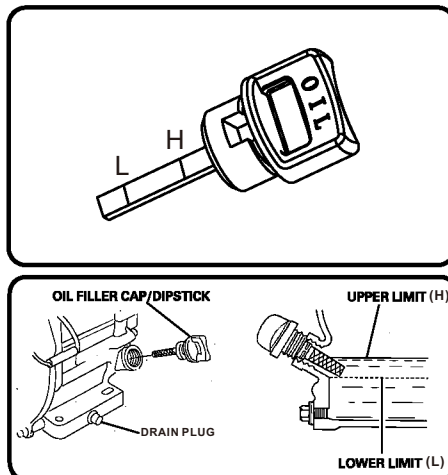
Add Engine Oil

We recommend using SAE 10W-30 API SJ or higher oil for best performance. 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.

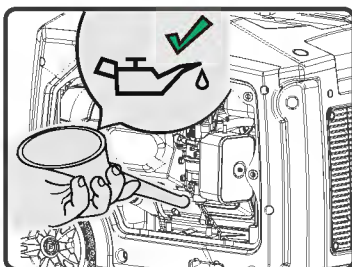


1. Place generator on a flat, level surface.
2. Loosen the cover screw and remove the maintenance cover.
3. Clean area around oil fill and remove yellow oil fill cap/dipstick.
4. Wipe dipstick clean.



OPERATION

5. 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.



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

7. Reinstall maintenance cover and tighten screws.

8. 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:

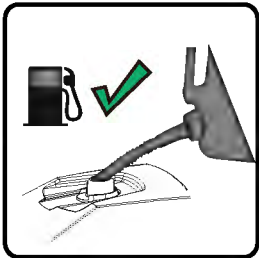
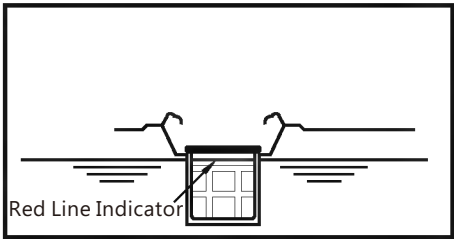
- Clean, fresh, unleaded gasoline with a minimum of 87 octane.
- For high altitude use, see Operation at High Altitude.
- Gasoline with no more than 10% ethanol is acceptable.

E10

E15

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.

	322cc	Altitude
Altitude main jet 1	355717002	3000-6000Feet
Altitude main jet 2	355717003	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.

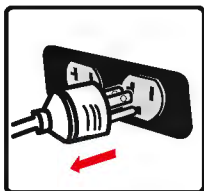
Operation at High Ambient conditions

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.

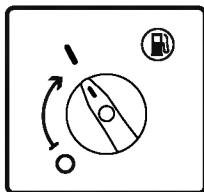
OPERATION

3.Starting the Generator

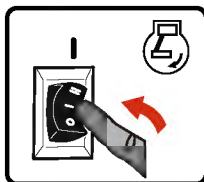
1. Before starting the generator, check for loose or missing parts and for any damage which may have occurred during shipment. Ensure spark plug, muffler, fuel cap, and air cleaner are all in place.
2. Move portable generator outdoors to safe operating location downwind and at least 20 feet from any occupied spaces.
3. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in.



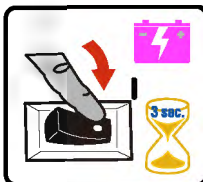
4. Turn the fuel valve to the "ON"(I) position.



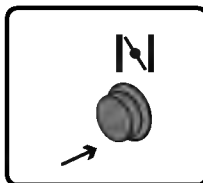
5. Flip the engine switch to the "RUN"(I) position.



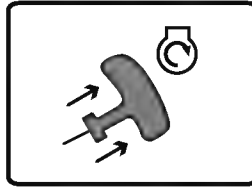
6. Push the battery power restore switch for about 3 seconds and then release.



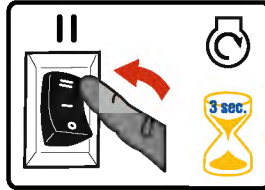
7. Push the choke button to the "CHOKE" position. You do not need to choke a warm engine.
(For remote start move to step (11))



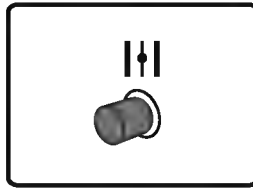
8. For recoil start only-Pull the starter cord slowly until resistance is felt and then pull rapidly to start engine.



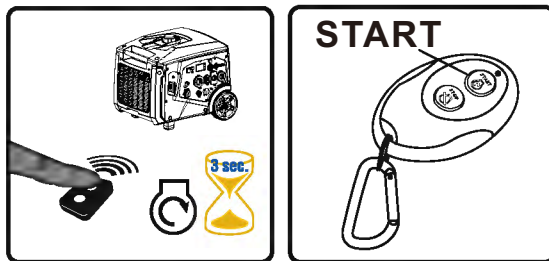
9. For electric start only-Flip the engine switch to the START (II) position for a few seconds and then release.



10. Do not over-choke. As soon as engine starts and warms up, press the choke button to return to the run position.



11. For remote start only-Push and release the "START" button on the remote control. The generator will turn over for 3 to 5 seconds and start.



12. 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.

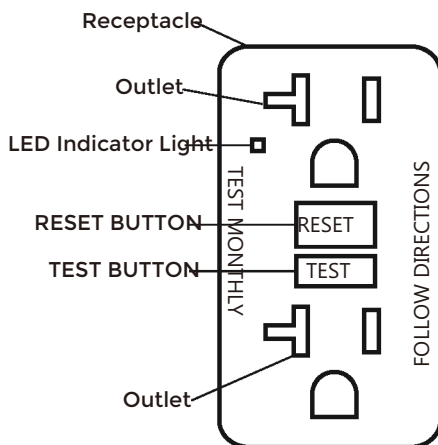
OPERATION

4. Connecting Electrical Loads

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

The duplex receptacle is equipped with GFCI protection. The GFCI protects against electric shock that may be caused if you become a path which electricity travels to reach earth. Even with a GFCI you may feel a shock, but the GFCI cuts power quickly so an average person should not suffer any injury. Manual test GFCI while generator is running to verify internal contacts will function

- Push the test button. The reset button will pop out, which should cut power to outlet.
- Press the reset button until it locks in the depressed position. If the GFCI does not reset as described do not use the receptacles. Call FIRMAN customer service.
- If GFCI trips while in use, reset and test the outlet. Electric cords laying on the ground with worn insulation may trip the GFCI, only use cords in good condition.



SELF-TEST OPERATION

In addition to the manual test / reset feature the GFCI receptacle tests itself periodically to confirm the GFCI electronics are functional. The indicator light will be solid green when the GFCI is powered from the generator and working correctly.

Self-test indications: If the indicator light is solid orange or flashing red a problem may exist. Press the TEST button to trip the GFCI. If unable to reset, replace the GFCI.

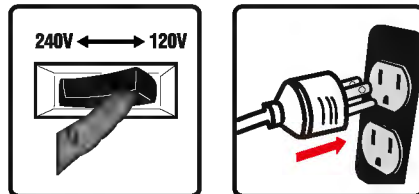


WARNING! Generator voltage could cause electrical shock or burn resulting in death or serious injury.

- 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.
- Use listed transfer switch to prevent backfeed by isolating generator from electric utility workers.

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. Set voltage selector switch to either 120 Volt or 240 Volt position. When 120 volts is selected only 120 volts is available. When 240 Volt position is selected only 120/240 volts is available.
5. Plug in and turn on the first item. It is best to attach the item with the largest load first.
6. Allow the engine to stabilize.
7. Plug in and turn on the next item.
8. Allow the engine to stabilize.
9. Repeat steps 6-7 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.

OPERATION

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.

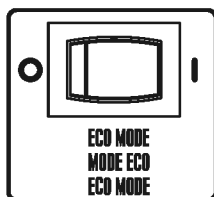
Install battery-powered carbon monoxide alarm(s) in your home. Don't run generator in enclosed areas.

Color	Description
Red ●●●●●	Carbon monoxide accumulated around generator. Prior to restart move generator to an open, outdoor area downwind and at least 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 occurred*. See FIRMAN authorized service dealer.

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

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 240V 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.

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.

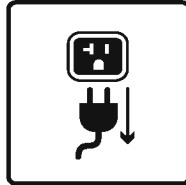
1. Before connecting the battery charging cable to a battery that is installed in a vehicle, disconnect the vehicle battery ground cable from the negative (-) battery terminal.
2. Plug the battery charging cable into the DC receptacle of the generator.
3. Connect the red (+) battery charger lead to the red (+) battery terminal.
4. Connect the black (-) battery charger lead to the black (-) battery terminal.
5. Start the generator.

5. Stopping the generator

1. Turn off and remove all electrical loads.

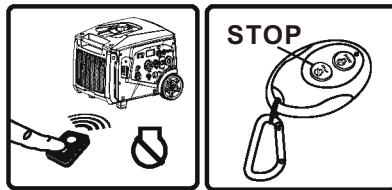
Never stop the generator with electrical devices plugged in and turned on.

Never stop the engine by moving the choke to the start position.

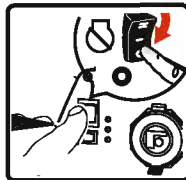


Let the generator run at no-load for one minute to stabilize internal temperatures of the engine and generator.

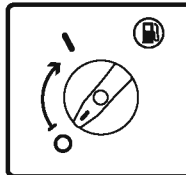
2. For remote start only-Push and release the "STOP" button on the remote control. The generator will be shut down.



3. Flip the engine switch to "OFF"(O) position.



4. Turn the fuel valve to the "OFF"(O) position.



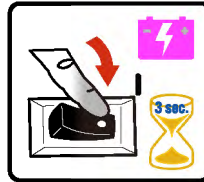
If a cover is used, do not install until unit has cooled.

Remote Control Programming

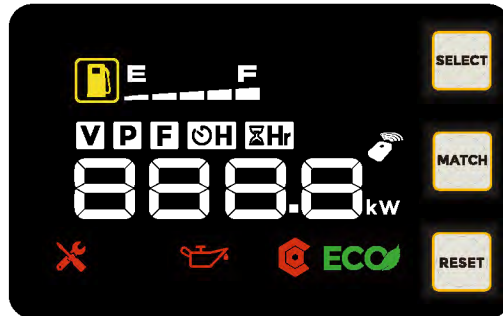
1. Flip the engine switch to the "RUN"(I) position.



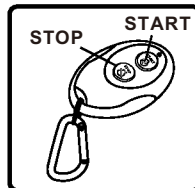
2. Push the battery power restore switch for about 3 seconds and then release.



3. Press and hold the "MATCH" button on the display panel for 3 seconds until the remote control icon lights up, then the remote control learning mode will be activated.



4. Press the STOP button on the remote control; at this point, the remote control icon will flash once. Then press the START button on the remote control, and the remote control icon will flash once again.



5. Press and hold the MATCH button on the display panel for 3 seconds, then wait for the remote control icon on the display panel to go out. This will exit the learning mode and complete the pairing process.

OPERATION

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

If the load exceeds 6400W(approximately), the "P" light will turn on and cut power to the receptacles in 5 seconds. If the load exceeds 6500W(approximately), the light will turn on and cut power to the receptacles in 2 seconds.

NOTICE:

When the engine shuts down due to overload or runs out of fuel, the "P" light will stay on and glow red.

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 240V inverter generators with parallel ports, including two FIRMAN inverters model W06383 can be paralleled to increase the total available electrical power to 11340 Watts.

MAINTENANCE SCHEDULE

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.				✓	
Engine Oil	Check oil level.	✓				
	Replace.		✓		✓	
Air Filter	Clean, replace if necessary.			✓		
Fuel	Clean fuel tank strainer. Replace if necessary.				✓	
Fuel Line	Check fuel hose for cracks or other damage. Replace if necessary.	✓				
Exhaust System	Check for leakage. Retighten or replace gasket if necessary.	✓				
	Check spark arrester screen. Clean/Replace if necessary.				✓	
Engine	Check adjust valve clearance. *					✓
	Clean combustion chamber. *					✓
Fittings/ Fasteners	Check. Replace if necessary.				✓	

* To be performed by knowledgeable/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 maintenance schedule 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.

Maintenance - Storage

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.)

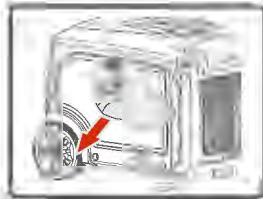
If you are using your generator under extremely dirty or dusty conditions, or in extremely hot weather change the oil more often.

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.

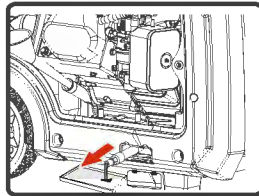


KEEP OUT OF REACH OF CHILDREN. DON'T POLLUTE. CONSERVE RESOURCES. RETURN USED OIL TO COLLECTION CENTERS.

(a) Loosen the cover screws and remove the maintenance cover.



(b) Pop up the plug from below yellow draining bolt.



(c) Remove yellow drain bolt.

(d) Tilt the generator on its side and allow the oil to drain completely.

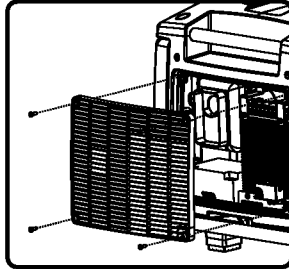
(e) Replace yellow drain bolt.

(f) Fill the engine with oil until it reaches the HIGH(H) level on the oil filler cap. **DO NOT OVERFILL.**

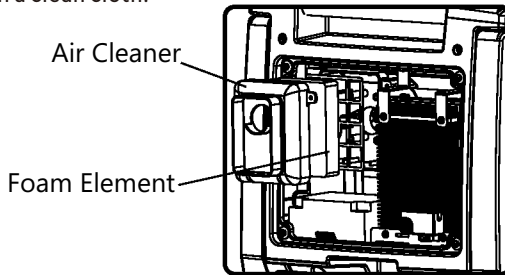
NOTICE We recommend using SAE 10W-30 API SJ or higher oil for best performance. Do not use special additives. See **Oil and Gasoline**

Air Filter Maintenance

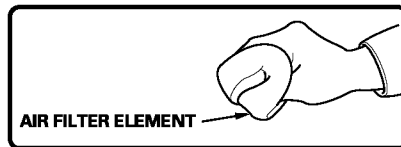
(a) Remove the air cleaner cover and locate the air filter plastic cover.



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



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



(d) Reinstall clean or new air filter element.

(e) Reattach the air filter cover.

(f) Reinstall the air cleaner cover and tighten the cover screw securely.

Spark Plug Maintenance

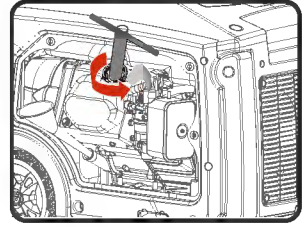
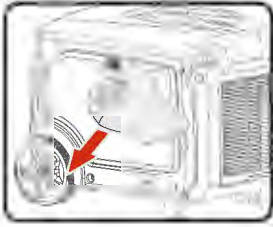
Changing the spark plug will help your engine start easier and run at peak performance.

(a) Remove the maintenance cover.

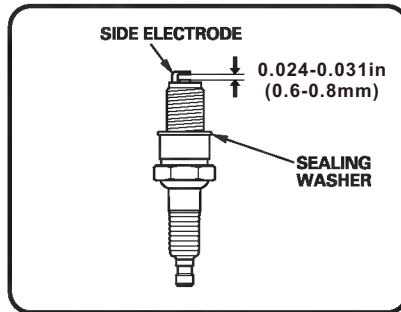
(b) Remove the spark plug boot.

(c) Remove spark plug using provided wrench.

Maintenance - Storage



- (d) Inspect spark plug for damage and clean with a wire brush before reinstalling. Replace if damaged.
- (e) Adjust the electrode gap to 0.024 - 0.031 in. (0.6 - 0.8 mm).
- (f) Seat spark plug in position and thread by hand to prevent cross threading.
- (g) Tighten plug with provided wrench and put the spark plug boot back on spark plug. Do not overtighten.



SPARK PLUG: F7TC or equivalent.

Maintenance Valve Clearance

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

Exhaust: 0.006 - 0.008 in. (0.15 - 0.20 mm)

Muffler and Spark Arrester

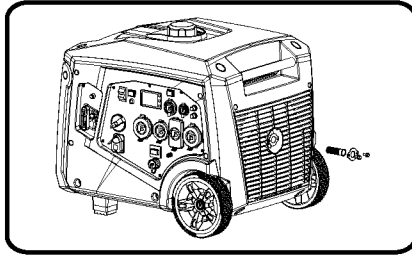


WARNING! Contact with muffler area could cause burns resulting in serious injury.

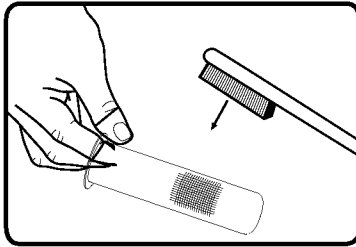
- Do not touch hot parts.
- It is a violation of California Public Resource Code, Section 4442, to use or operate the engine on any forest-covered, brush-covered, or grass-covered land unless the exhaust system is equipped with a spark arrester, as defined in Section 4442, maintained in effective working 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. Loosen the spark arrester clamp, remove the spark arrester cover, and remove the spark arrester with a thin blade screwdriver.



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 FIRMEN original equipment replacement parts.
 5. Position the spark arrester in the muffler and attach spark arrester cover with the screws.
- 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.

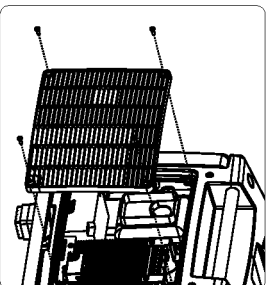
Do not insert any objects through cooling slots.

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.

Maintenance - Storage

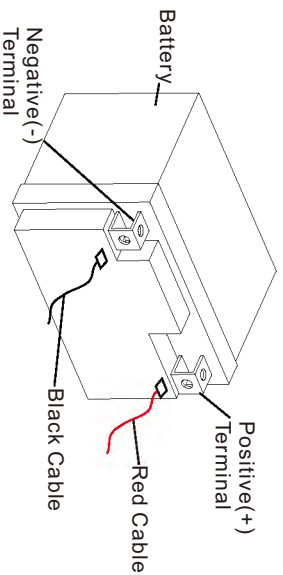
Battery Replacement

1. Unscrew the air cleaner cover by provided screwdriver.



2. Release the battery retaining rubber belt.

3. Disconnect the black(-) cable from black(-) terminal on the battery. Disconnect the red(+) cable from red(+) terminal on the battery.



4. Remove the battery and recycle and dispose of properly.

5. Install the new battery with following specification:

12V lithium battery 1.6AH

LXWXH:4.21X2.2X3.34 in. (107X56X85mm)

6. Connect the red(+)battery cable to the positive terminal of battery first and then connect the black(-) battery cable to the negative terminal of battery.

7. Reattach the air cleaner cover.

Battery Charging (USB-C)

The battery powers the starter motor and control module. This portable generator is equipped with an automatic battery charging circuit. The battery will receive charging voltage only when the engine is running. The battery will maintain a proper charge if the portable generator is used on a regular basis (about once every two weeks). If it is used less frequently, the battery should be connected to a trickle charger (not included) or battery maintainer (not included) to keep the battery properly charged. If the battery is not able to start the engine, the battery must be connected to a type-C style battery charger for re-charging before it can be used.

USB-C charging input supports 5V3A input 15W maximum.

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.

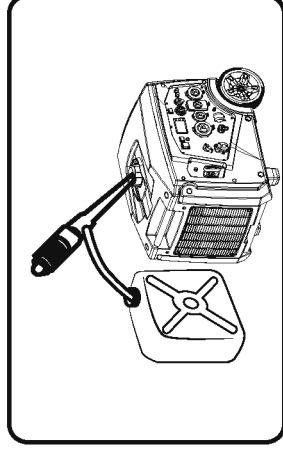
When the generator set is being stored for more than one month, follow these instructions to avoid engine problems:



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.

Troubleshooting – Specifications

Troubleshooting

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 set. 4. Connected device is bad.	1. Reset circuit breaker. 2. Contact authorized service facility. 3. Check and repair. 4. Connect another device that is in good condition.
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. Generator is overloaded. 4. Shorted generator circuit. 5. Clogged or dirty fuel filter.	1. Disconnect shorted electrical load. 2. Contact authorized service facility. 3. See Don't Overload Generator 4. Contact authorized service facility. 5. Clean or replace fuel filter.
Engine will not start; starts and runs rough or shuts down when running.	1. Engine switch set to OFF (O) position. 2. Fuel shutoff lever is in OFF (O) position. 3. Low oil level. 4. Dirty air cleaner. 5. Out of fuel. 6. Stale fuel. 7. Spark plug wire not connected to spark plug. 8. Bad spark plug. 9. Water in fuel. 10. Flooded. 11. Excessively rich fuel mixture. 12. Intake valve stuck open or closed. 13. Engine has lost compression. 14. Clogged or dirty fuel filter.	1. Set engine switch to ON (I) position. 2. Move fuel shutoff lever to ON (I) position. 3. Fill crankcase to proper level or place generator on level surface. 4. Clean or replace air cleaner. 5. Fill fuel tank. 6. Drain fuel tank and carburetor; fill with fresh fuel. 7. Connect wire to spark plug. 8. Replace spark plug. 9. Drain gas tank and carburetor; fill with fresh fuel. 10. Wait 5 minutes and re-crank engine. 11. Contact authorized service facility. 12. Contact authorized service facility. 13. Contact authorized service facility. 14. 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.	1. Don't Overload Generator 2. Replace air filter. 3. Clean or replace fuel filter. 4. Clean or replace spark arrester.
Engine “hunts” or falters.	1. Carburetor is running too rich or too lean. 2. Clogged or dirty fuel filter.	1. Contact authorized service facility. 2. Clean or replace fuel filter.
Engine shuts down when running.	1. Out of fuel. 2. Dirty air cleaner. 3. Low oil level.	1. Fill fuel tank. 2. Clean or replace air cleaner. 3. Fill crankcase to proper level or place generator on level surface.
Engine shuts down and yellow CO fault light blinking.	1. CO system fault	1. Contact authorized FIRMAN service facility.

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

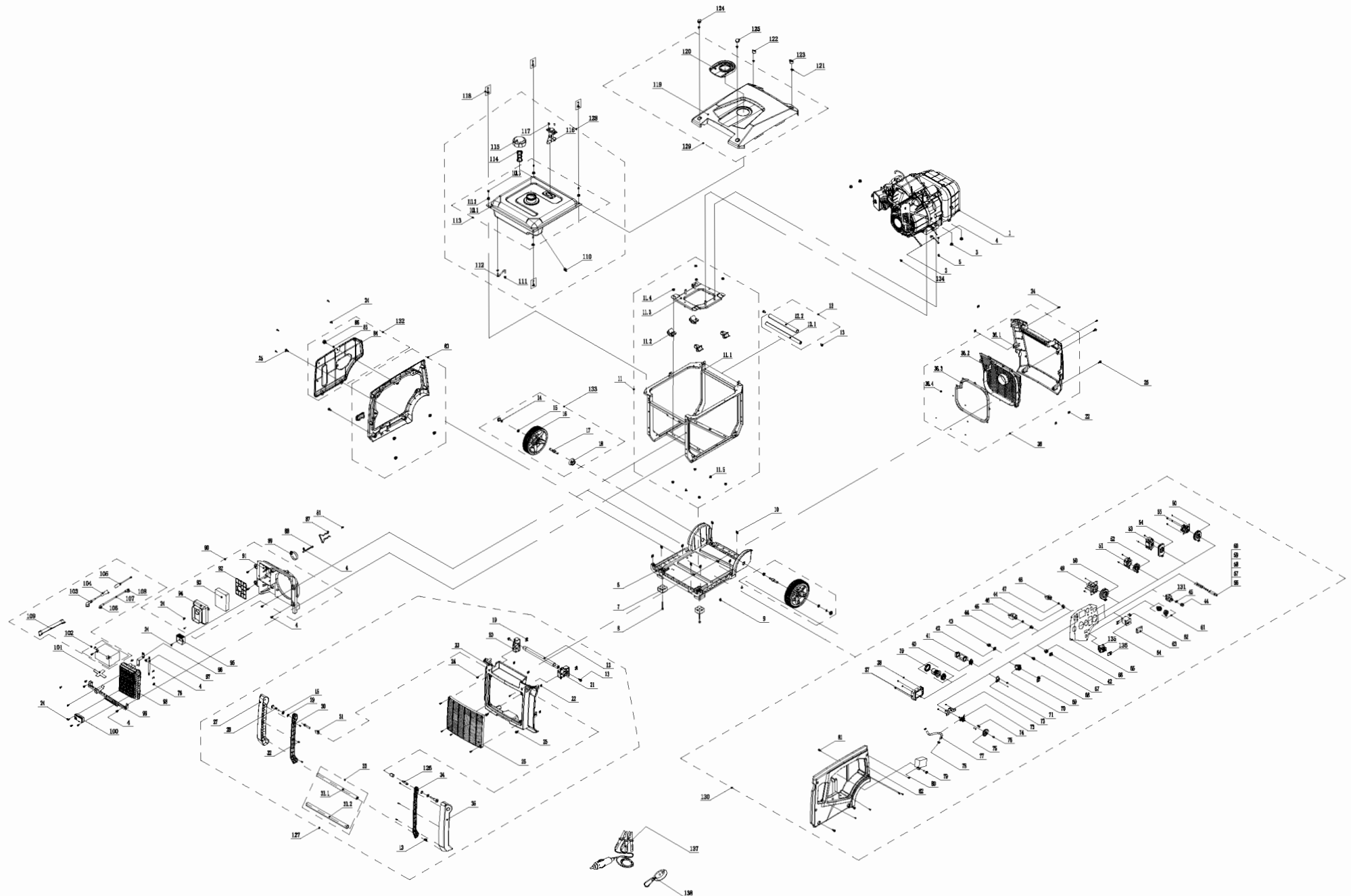
SPECIFICATIONS

Model	W06383
Starting Watts	7850
Running Watts*	6300
Rated AC Voltage	120/240V
Rated Frequency	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	322cc
Low Oil Shutdown	Yes
Ignition System	Breakless Ignition Type, Flywheel Magneto
Starting System	Recoil/Electric/Remote
Fuel	Unleaded Automotive Gasoline
Capacity Fuel Tank	5.3 U.S. Gallons (20L)
Lubricating Oil Capacity	35.5 oz (1.05L)
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 Bonded to Frame

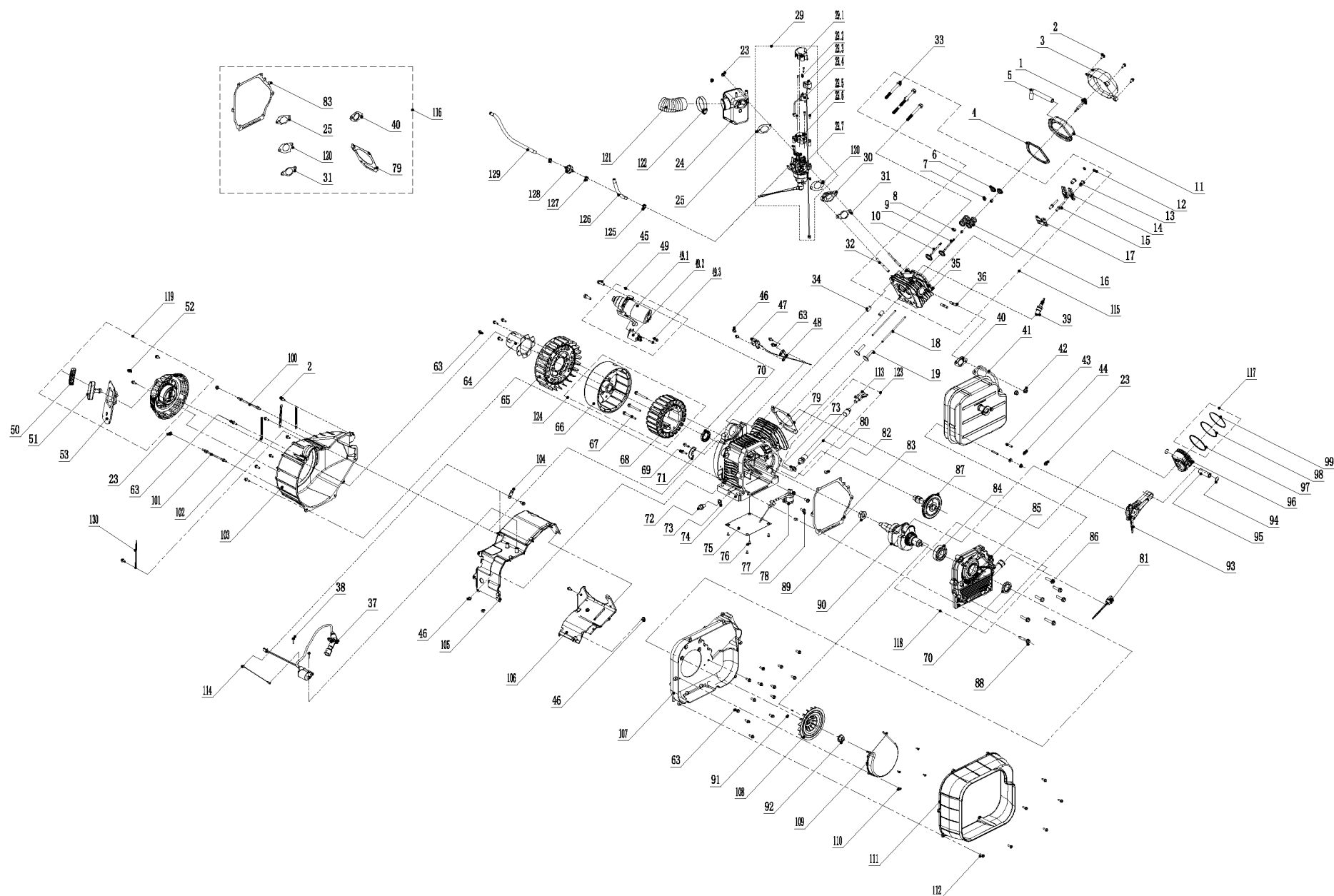
*Generator certified in accordance with CSA (Canadian Standards Association) standard C22.2No. 100-14, Motors and Generators and complies with PGMA (Portable Generator Manufacturers' Association) standard ANSI/PGMA G300-2023, Safety and Performance of Portable Generators.

PARTS DIAGRAM AND PART LIST

W06383 PARTS DIAGRAM



322cc ENGINE PARTS DIAGRAM



W06383 Inverter Generator

NO.	Part Number	Description	Qty.	NO.	Part Number	Description	Qty.
1	355468300	Engine Subassy.	1	36.4	355718335	Spring, Leaf	7
2	355718300	Ground Wire	1	37	355428304	Multi-Meter	1
3	357713531	Nut M10	4	38	336718324	Nut M4	22
4	336718301	Flange Bolt M6x12	16	39	355718325	Receptacle, USB-C	1
5	336713516	External Teeth Lock Washer Ø6	1	40	336713674	12V DC Receptacle Cover	1
6	355728300	Base Assy.	1	41	317713565	Receptacle, 12V DC	1
7	355728301	Base Support	2	42	316735503	Cover, Switch	2
8	355718301	Flange Bolt M6x55	2	43	330713629	Switch	1
9	336718302	Flange Bolt M6x12	4	44	336755005	Cover, 20A Push Button Breaker	3
10	333717014	Nut M6	8	45	336457020	Nut M11x1	2
11	355418300	Frame	1	46	336713585	Breaker, Push Button AC 20A	1
11.1	355418301	Frame	1	47	333728300	Circuit Breaker Nut	1
11.2	355428300	Isolator	4	48	329753003	D.C 10A Breaker, Push Button	1
11.3	355418302	Base Bracket	1	49	380713518	Receptacle, 14-50R	1
11.4	336718315	Nut M8	8	50	330713601	Receptacle Cover, TT-30R/14-50R	2
11.5	355718306	Bolt M5	2	51	336713601	Receptacle L14-30R	1
12	355418303	Upper Handle Assy.	2	52	336713573	Receptacle Cover, L5-30R/L14-30R	1
12.1	355718303	Upper Handle	2	53	357713588	Receptacle, 5-20R 120V 20A GFCI	1
12.2	355728302	Cover, Upper Handle	2	54	357713541	Cover, 5-20R GFCI	1
13	336713006	Flange Bolt M8x20	6	55	336713584	Receptacle, TT-30R	1
14	330713584	Retaining Ring Ø12	2	56	357713542	Flange Bolt M6 x 22	1
15	330713585	Washer Ø12	4	57	380713515	Nut M6	2
16	355728326	Wheel	2	58	336713512	Lock Washer Ø6	2
17	355718328	Axle	2	59	336713513	Lock Washer Ø6	2
18	355718424	Nut M10x1.25	2	60	336713516	External Teeth Lock Washer Ø6	1
19	336718338	Flange Bolt M6x12	4	61	355718324	Receptacle, Parallel	1
20	355718316	Left Bracket, Handle	1	62	336713569	Screw & Washer Assy. M4 x 8	4
21	355718317	Right Bracket, Handle	1	63	393725501	Circuit Breaker Cover	1
22	317713524	Cage Nut M5	8	64	380713526	Breaker, 30A Double-Pole Circuit	1
23	355728317	Left Panel Assy.	1	65	355718323	Control Panel	1
24	336713538	Screw & Washer Assy. M5x14	29	66	317718305	Switch, ECO	1
25	355718417	Bolt M6x20	8	67	336755002	CO Indicator Light	1
26	355728315	Panel, Maintenance	1	68	340725503	Switch Cover	1
27	355728313	Left Handle cover plate	1	69	399755662	Switch, Electric Start	1
28	355718311	Handle Bolt	2	70	336718369	Flange Bolt M4 x 14	2
29	355718312	Washer Ø23.4xØ13.1x1	2	71	330728301	Remote Holder	1
30	355723002	Left Handle Support	1	72	355718321	Stents, Fuel Valve	1
31	355728314	Bushing	2	73	330713577	Fuel Valve	1
32	355718318	Screw M5x14	6	74	336718364	Screw M5x20	2
33	355418305	Lower Handle Assy.	1	75	355728325	Fuel Valve Knob	1
33.1	355718315	Lower Handle	1	76	336718383	Screw & Washer Assy. M4 x 14	8
33.2	355728316	Cover, Lower Handle	1	77	355728324	Fuel Hose, Fuel Tank To Fuel Valve	1
34	355723003	Right Handle Support	1	78	330713508	Clip Ø10.5 x 8	2
35	355728318	Right Handle Cover Plate	1	79	336718364	Screw M5 x 20	1
36	355428301	Right Cover Assy.	1	80	355458302	Charging Module	1
36.1	355428305	Cover, Right Side	1	81	355718330	Screw M6 x 12	2
36.2	355728328	Right Cover, Muffler	1	82	355728323	Front Cover	1
36.3	355728329	Rubber Seal Sleeve	1	83	355728310	Panel, Rear	1

PARTS DIAGRAMS - PARTS LISTS - WIRING DIAGRAM

NO.	Part Number	Description	Qty.	NO.	Part Number	Description	Qty.
84	355728311	Insulation, Rear Panel	1	123	355728307	Plug, Rubber	1
85	355718308	Washer, Maintenance Panel Bolt	1	124	355728308	Plug, Rubber	1
86	355718307	Rear Cover Knob	1	125	355728309	Plug, Rubber	1
87	355718329	Hose Clamp	1	126	355718425	Dowel Pin	2
88	317713577	Clip	1	127	355428313	Left Cover Assy.	1
89	355718320	Clamp	1	128	355418327	Fuel Tank Insulation	1
90	355728352	Air Filter Assy.	1	129	355428318	Upper Cover Assy.	1
91	355728322	Cover, Left	1	130	355418335	Control Panel Assy.	1
92	355728321	Air Cleaner Element Supporter	1	131	336713586	Circuit Breaker, 30A	1
93	355728320	Element, Air Cleaner	1	132	355428315	Maintenance Window	1
94	355728319	Case, Air Cleaner	1	133	355428316	Wheel Assy.	2
95	355458303	DC Module	1	134	333457016	Switch, Choke	1
96	355718310	Clip, ECM Fastening	1	135	336713600	120V/240V Switch	1
97	355718384	Ground Wire	1	136	340725503	Switch Cover	1
98	355458304	Inverter	1	137	320755504	12V DC Charging Cable	1
99	355718309	Bracket, ECM	1	138	336713642	Remote Control	1
100	355428303	CO Module	1				
101	355728312	Pad, Battery	1				
102	355458305	Battery, 1.6Ah	1				
103	357713571	Black Battery Boot	1				
104	336713692	Battery Cable, Negative, Male	1				
105	355718416	Battery Cable, Negative, Female	1				
106	357713570	Red Battery Boot	1				
107	355718383	Red Cable, Battery Boot	1				
108	336713611	Battery Boot	1				
109	355728356	Fastener, Battery	1				
110	360718306	Fuel Tank Fitting	1				
111	317713553	Clamp Ø8 x 6	2				
112	355728303	Hose	1				
113	355418304	Fuel Tank Assy.	1				
113.1	355418326	Fuel Tank	1				
113.2	336713542	Grommet, Fuel Tank	4				
113.3	357713600	Bushing	4				
114	333427007	Fuel Filter, Wire Mesh	1				
115	330713500	Fuel Tank Cap	1				
116	355428302	Fuel Gauge Assy.	1				
117	336417031	Screw M5 x 16	2				
118	310715064	Bolt M6 x 20	4				
119	355728305	Panel, Top	1				
120	355728304	Fuel Guide Plate	1				
121	355718306	Bolt M5	4				
122	355728306	Plug, Rubber	1				

PARTS DIAGRAMS - PARTS LISTS - WIRING DIAGRAM

FIRMAN 322cc Engine

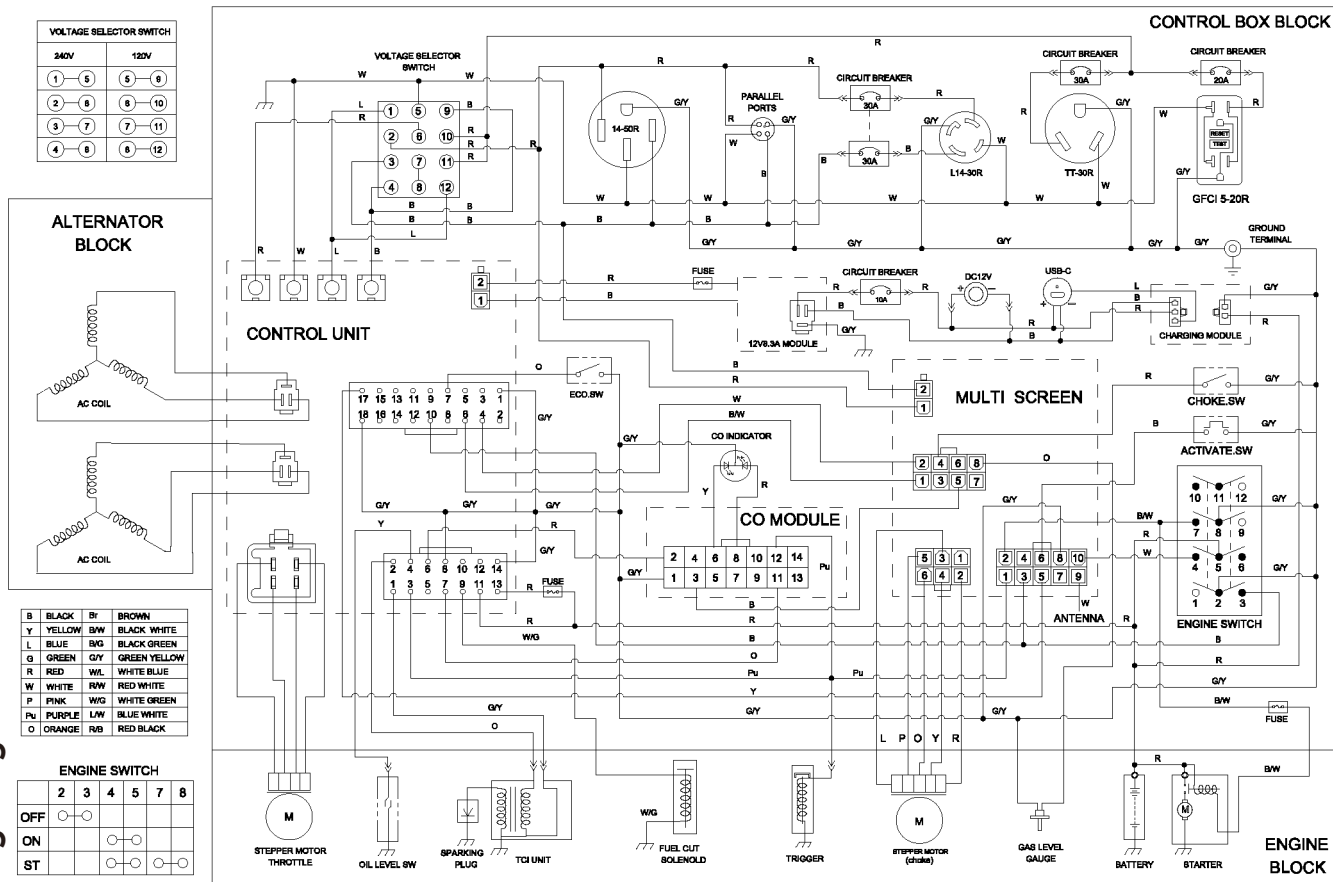
NO.	Part Number	Description	Qty.	NO.	Part Number	Description	Qty.
1	357723527	Bolt	1	41	355418308	Muffler Assy.	1
2	336718338	Flange Bolt M6 x12	8	42	336718318	Nut M8	2
3	355728331	OHV Cover Guard	1	43	330723555	Stud Bolt M6 x 32	2
4	357723525	Gasket, OHV	1	44	355718413	Gasket, Muffler Bracket	2
5	355728332	Hose, Breather	1	45	355718392	Bolt M8 x 28	2
6	355718337	Retainer, Valve Spring	2	46	355718349	Bolt M6 x 8	5
7	355728333	Oil Seal, Valve	2	47	355458308	Trigger Assy.	1
8	355718338	Valve, Locking Clip	4	48	355718350	Bracket, Starter Solenoid	1
9	355718339	Valve, Exhaust	1	49	355458313	Starter Motor Assy.	1
10	355718340	Valve, Intake	1	49.1	355458317	Starter Motor	1
11	355728348	Cover, OHV	1	49.2	355458318	Starter Solenoid	1
12	336723528	Nut, Valve Lock	2	49.3	355718423	Bolt M4x16	2
13	336723529	Valve Adjusting Nut	2	50	330723526	Recoil, Rope Handle	1
14	355718411	Arm, Valve Rocker	2	51	355428307	Handle, Recoil	1
15	355718395	Bolt, Rocker Arm	2	52	355718351	Bolt M6x10	3
16	357723535	Spring, Valve	2	53	355728369	Guide, Rope	1
17	355728334	Guide Plate, Push Rod	1	63	312715017	Bolt M6x16	24
18	355718341	Push Rod	2	64	355718355	Pulley, Starter	1
19	355718342	Valve, Lifter	2	65	355728339	Cooling Fan	1
23	336723555	Nut M6	6	66	355458310	Rotor	1
24	355728352	Air Filter Assy.	1	67	336718384	Bolt M6 x 60	3
25	355728349	Gasket, Air Cleaner	1	68	355458311	Stator	1
29	355418331	Carburetor Set	1	69	312715059	Bolt M6x20	2
29.1	355728335	Cover, Stepper Motor	1	70	355728341	Seal, oil	2
29.2	330723590	Screw M3 x6	4	71	355728340	Guard, Harness	1
29.3	355458306	Stepper Motor, Choke	1	72	380717007	Oil Drain Bolt M12x1.25x15	1
29.4	336723603	Stepper Motor, Choke Valve	1	73	357723502	Oil Drainbolt Washer 12x20x2	2
29.5	355718377	Screw M4x12	4	74	355718358	Crankcase	1
29.6	355728336	Bracket, Stepper Motor	1	75	355718359	Shield, Crankcase Bottom	1
29.7	355418306	Carburetor	1	76	336713546	Screw M5x10	4
30	355728337	Insulator, Carburetor	1	77	355728351	Sensor, Engine Oil	1
31	355718344	Gasket, Insulator	1	78	336723526	Flange Bolt M6x15	2
32	355718345	Stud Bolt(M6xM8x110)	2	79	355718357	Gasket, Cylinder Head	1
33	355718346	Bolt	4	80	355428308	Quick Oil Drain	1
34	357723544	Dowel Pins Ø12 x 20	2	81	355428309	Oil Dipstick	1
35	355418307	Cylinder Head	1	82	399715765	Position Pin Ø10x12	2
36	336723539	Exhaust Valve Stud Bolt M8x35	2	83	355718362	Crankcase Gasket	1
37	355458307	Ignition Coil	1	84	355718363	Radial Ball Bearing 6206	1
38	317713538	Bolt M5 x 20	2	85	355718360	Crankcase Cover	1
39	330723001	Spark Plug, F7TC	1	86	357713584	Flange Bolt M8 x 35	5
40	393723013	Gasket, Muffler	1	87	355418310	Camshaft	1
				88	336713593	Flange Bolt M8x45	2

PARTS DIAGRAMS - PARTS LISTS - WIRING DIAGRAM

NO.	Part Number	Description	Qty.	NO.	Part Number	Description	Qty.
89	357723571	Nut M16	1	130	360728307	Nylon Cord	1
90	355418311	Crankshaft	1				
91	355718364	Dowel Pin Ø4×8	2				
92	317723505	Nut M12	1				
93	355418312	Connecting Rod	1				
94	399715726	Clip, Piston Pin	2				
95	355718367	Piston Pin	1				
96	355718368	Piston	1				
97	355718369	Ring, Piston Oil	1				
98	355718370	Second Ring, Piston	1				
99	355718371	First Ring, Piston	1				
100	355718365	Stud Bolt	1				
101	355718372	Stud Bolt	1				
102	317713577	Wire clip	3				
103	355728342	Cover, Fan	1				
104	355718373	Lifting Lugs	1				
105	355728343	Guard, Upper	1				
106	355728344	Guard, Lower	1				
107	355728345	Guard, Muffler, Back	1				
108	355728346	Exhaust Fan	1				
109	355718374	Cover, Exhaust Fan	1				
110	317713516	Screw & Washer Assy. M4×14	4				
111	355728347	Guard, Muffler, Front	1				
112	399715657	Flange Bolt M5×16	6				
113	330723604	Bolt & Seal Ring, Drain	1				
114	355718394	Ground Wire	1				
115	355418332	Cylinder Head Assy.	1				
116	355418321	Gasket Set	1				
117	355418322	Piston Ring Set	1				
118	355418323	Crankcase Cover Assy.	1				
119	355418333	Recoil Assy.	1				
120	355718343	Gasket, Carburetor	1				
121	355728371	Air Duct	1				
122	355718320	Clamp	1				
123	355428317	Quick Oil Drain Assy.	1				
124	355458319	Rotor and Stator Set	1				
125	330713508	Clip Ø10.5×8	1				
126	360728305	Hose, Fuel	1				
127	360718305	Clamp	2				
128	333727010	Fuel Filter	1				
129	360728306	Hose, Fuel	1				

Wiring Diagram

ENGINE SWITCH						
	2	3	4	5	7	8
OFF						
ON						
ST						



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.

Service - Warranty

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 ABILITY 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 2026-2027 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 converter, fuel tanks, fuel lines (for liquid fuel and fuel vapors), fuel caps, valves, canisters, filters, clamps and other associated 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, the part will be repaired or replaced by FIRMAN at no charge to 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 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.

Service – Warranty

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

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.
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