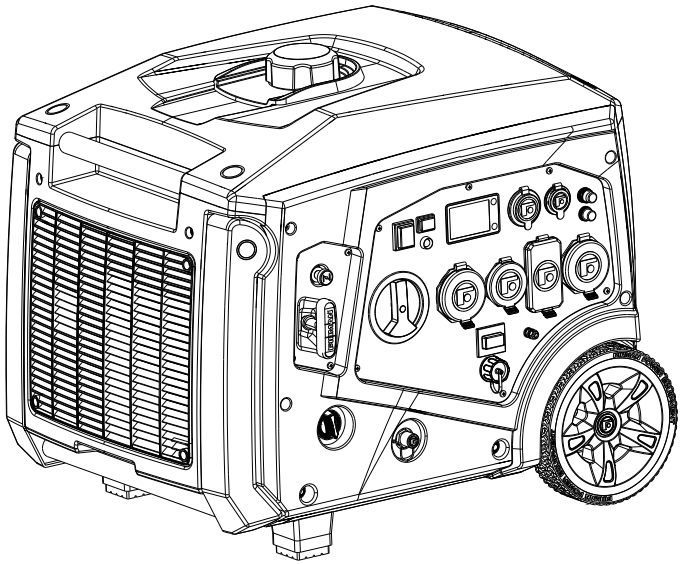
FIRMAN®

OPERATOR'S MANUAL
TRI-FUEL PORTABLE INVERTER GENERATOR



EPA CERTIFIED

Intertek 5001841

MODEL NUMBER
WT05571
Rev Level:00

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

STOP **DO NOT RETURN TO STORE!**

CALL US FIRST
1-844-347-6261

FOR QUESTIONS
OR SERVICE INFORMATION

SERIAL NUMBER: _____

PURCHASE DATE: _____

P/N:355745470 Rev:04

Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

FIRMAN WT05571 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 WT05571 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 Tri-Fuel and capable of running on gasoline, liquid petroleum gas (LPG), and natural gas (NG). 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 portable 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

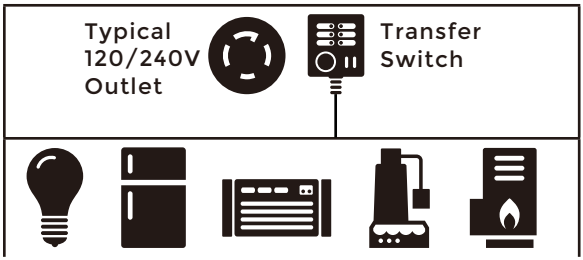
The generator has a system ground that connects the generator frame components to the ground terminals on the AC output receptacles. The system ground is connected to the AC neutral wire. The neutral is bonded to the generator frame.

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.

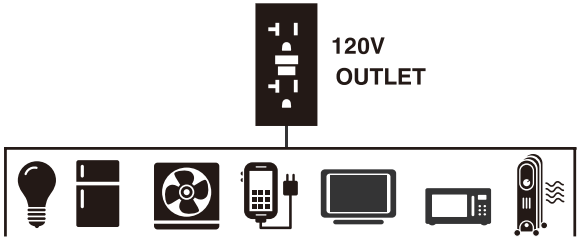
To Restore Home Power Using a Listed Transfer Switch

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.

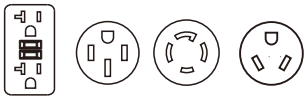


Typical Indoor Items

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.

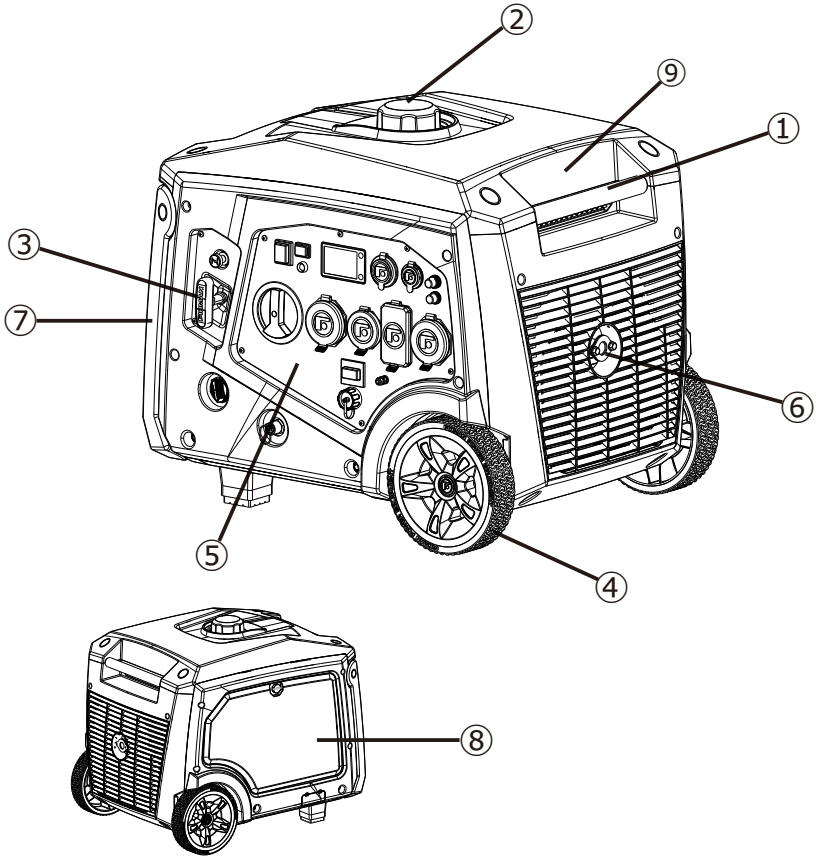
DANGER! Engine exhaust contains carbon monoxide, a poisonous gas that will kill you in minutes. You cannot smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

- 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



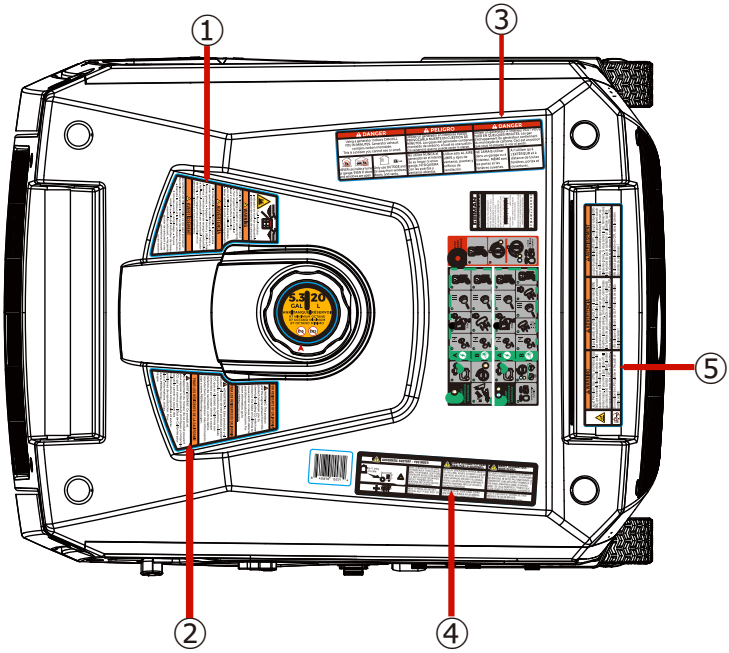
1- Fixed Carrying Handle
2- Fuel Cap
3- Recoil Starter
4- Never Flat Wheel
5- Control Panel
6- Muffler/Spark Arrester
7- Folding Handle
8- Maintenance Cover
9- Data Decal / Serial Number

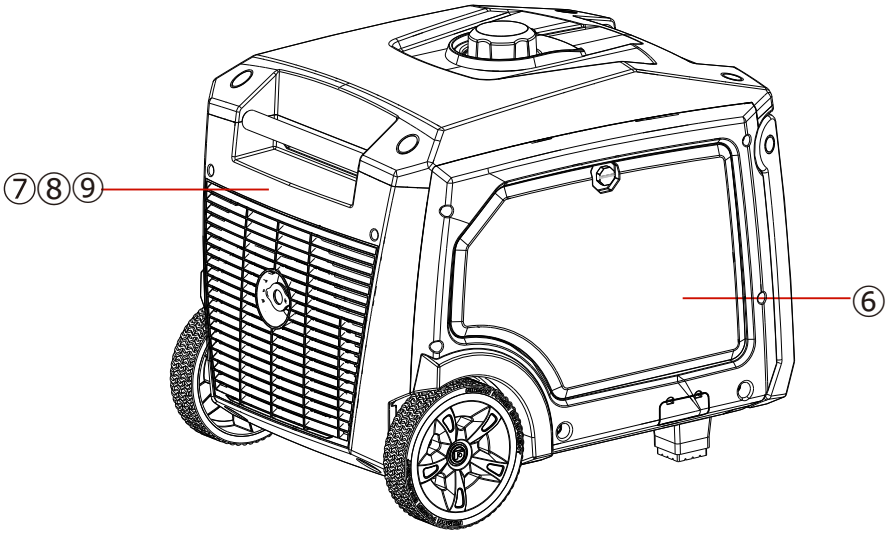
***We are always working to improve our products. Therefore, the enclosed product may differ slightly from the image on this page.**

LOCATION AND CONTENT OF ON-PRODUCT HAZARD LABELS

FREE WARNING LABEL REPLACEMENT

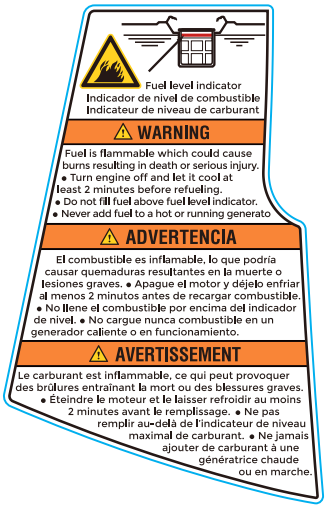
If hazard labels become illegible or are missing, contact FIRMAN customer service for a free replacement.





FEATURES, CONTROLS AND ON -PRODUCT HAZARD LABELS

①



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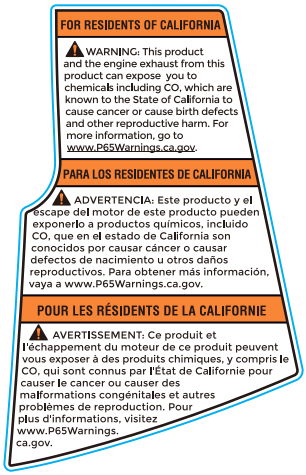


③

DANGER		PELIGRO		DANGER	
Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.		Utilizar un generador en interiores PUEDE PROVOCARLA 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.		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.	
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.	No utilice NUNCA el generador en el interior de su hogar ni enun garaje, NI SIQUIERA con las puertas y ventanas abiertas.	Utilice sólo AL AIRE LIBRE y lejos de ventanas, puertas y orificios de ventilación.	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.

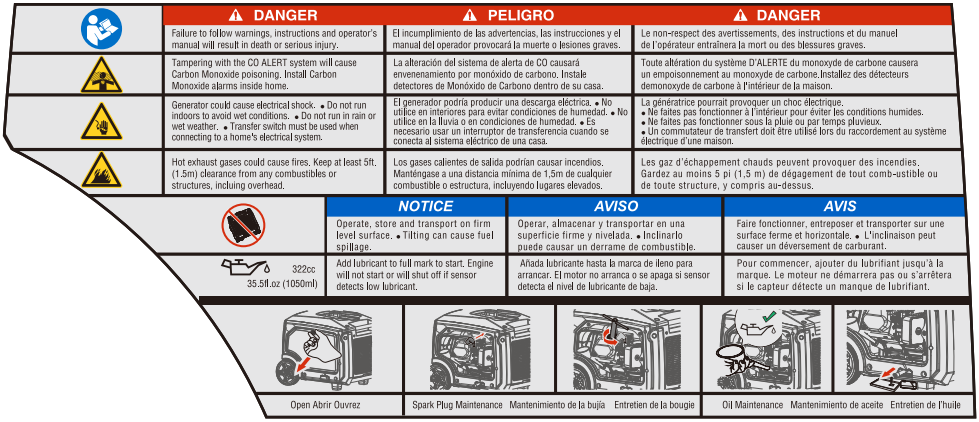
④

AUTOMATIC SHUTOFF - YOU MUST:		CORTE AUTOMÁTICO-DEBE REALIZAR LO SIGUIENTE:	ARRÊT AUTOMATIQUE - VOUS DEVEZ:
	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.	TRASLADE 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.	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 RÉOCCUPER LA PROPRIÉTÉ.
	MOVE TO FRESH AIR AND GET MEDICAL HELP IF SICK, DIZZY OR WEAK.	UBÍQUESE EN UN LUGAR DONDE CORRA AIRE FRESCO Y BUSQUE AYUDA MÉDICA SI SE SIENTE MAL, MAREADO O DÉBIL.	ALLEZ À L'AIR FRAIS ET OBTENEZ DE L'AIDE MÉDICALE EN CAS DE MALADIE, D'ÉTOURDISSEMENT OU DE FAIBLESSE.

⑤

WARNING	ADVERTENCIA	AVERTISSEMENT
Liquid Petroleum Gas (LPG) and Natural Gas (NG) are extremely flammable which could cause burns or fire resulting in death or serious injury. If you smell gas, close off all gas sources and contact a qualified plumber to inspect and repair the LPG or NG system.	El gas licuado de petróleo(GLP) y el gas natural(GN) son extremadamente inflamables, lo que podría causar quemaduras o incendios que podrían provocar la muerte o lesiones graves. Si huele a gas, cierre todas las fuentes de gas y contacte a un plomero calificado para que inspeccione y repare el sistema de GLP o GN.	Le gaz de pétrole liquéfié (GPL) et le gaz naturel (GN) sont extrêmement inflammables et pourraient causer des brûlures ou des incendies entraînant la mort ou blessures graves. Si vous sentez le gaz, fermez toutes les sources de gaz et contacter un plombier qualifié afin d'inspecter et de réparer le système GPL ou GN.
Do not place the LPG cylinder in the path of muffler outlet!	¡No coloque el cilindro de GLP en la vía de salida del silenciador!	Ne placez pas le cylindre de GPL dans le chemin de sortie du silencieux !

⑥



⑦

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

⑧

Point engine exhaust away from all occupied structures.

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

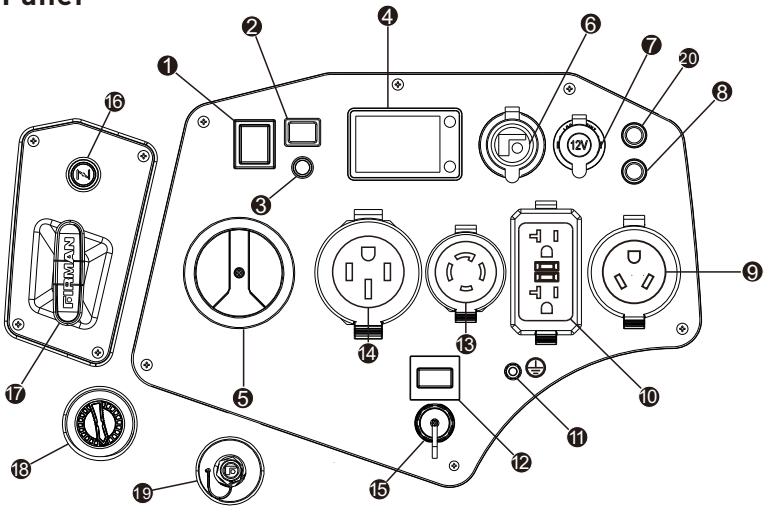
Pointer l'échappement du moteur loin de toutes les structures occupées.

⑨

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

FEATURES, CONTROLS AND ON -PRODUCT HAZARD LABELS

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. **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.

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. **Main Fuel Selector Switch/Engine Switch** – Use to select and turn on gasoline (GAS) or LPG/NG fuel source. The GAS valve is closed when the switch is in the OFF or LPG/NG positions. Engine switch is on when the switch is in GAS or LPG/NG positions.

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. **120V, 30A RV** – NEMA TT-30R (not GFCI protected)
A maximum of 22.9 Amps current may be drawn from this receptacle.

10. **120V, 20A Duplex GFCI** (Ground Fault Circuit Interrupter)- NEMA 5-20R
A maximum of 20 Amps current may be drawn from this duplex receptacle.

FEATURES, CONTROLS AND ON -PRODUCT HAZARD LABELS

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

12. **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.

13. **120/240V, 30A** - NEMA L14-30R (not GFCI protected)
A maximum of 22.9 Amps current for 240 Volts or two independent 120 Volt loads at 22.9 Amps current each can be drawn from this receptacle.

14. **120/240V, 50A** - NEMA 14-50R (not GFCI protected)
A maximum of 22.9 Amps current for 240 Volts or two independent 120 Volt loads at 22.9 Amps current each can be drawn from this receptacle.
A maximum of 45.8 Amps current may be drawn from this receptacle (**Parallel Operation**).

15. **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. For more information see PARALLEL OPERATION section.

16. **Choke Button**

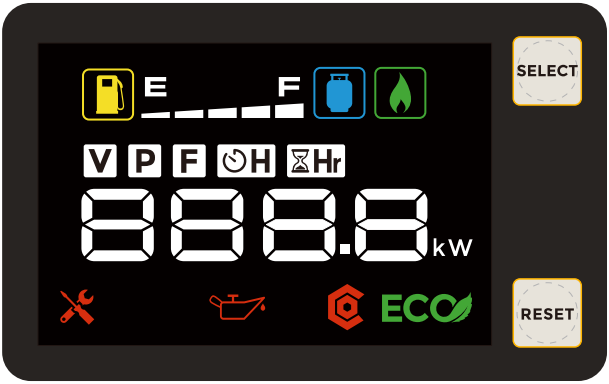
17. **Recoil Starter**

18. **LPG/NG Select Switch**

19. **LPG/NG Hose Connector** (Inlet: 3/8" Flare Male) - Used to connect LPG/NG hose to generator.

20. **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.

Intelligauge Display Screen



E F	Remaining fuel
8888	Display value
V	Voltage
P	Power
F	Frequency
H	Total run time
Hr	Remaining run time
	Generator maintenance required
	Low oil level
	CO Alert alarm
ECO	ECO mode (no load, low idle speed)
	LPG/NG
SELECT	Change to show the Voltage, Hertz, Power , Running hours and remaining running time.
RESET	Restore output after generator overloaded and clear maintenance icon flashing after the maintenance

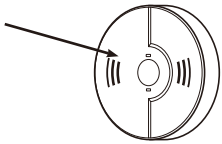
1.Location

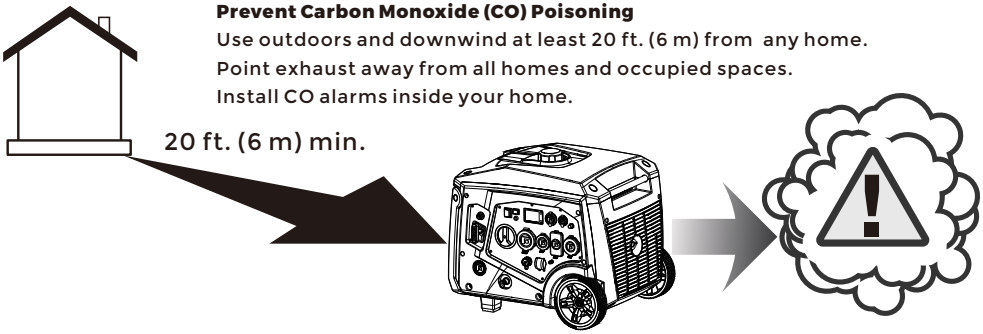
DANGER! Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You CANNOT smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

- 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

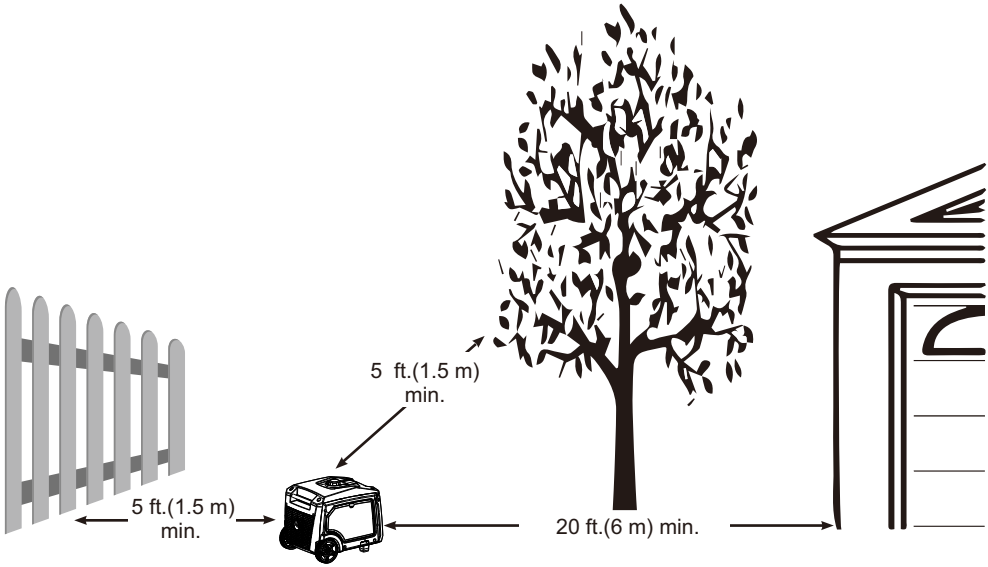
Use outdoors and downwind at least 20 ft. (6 m) from any home.
Point exhaust away from all homes and occupied spaces.
Install CO alarms inside your home.

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.

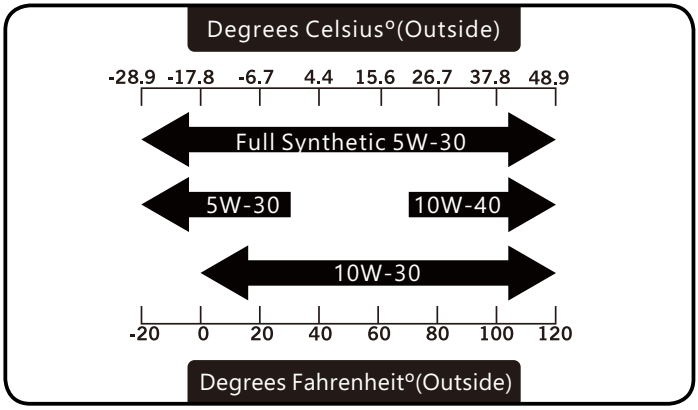


2, Oil and Gasoline / LPG/ NG

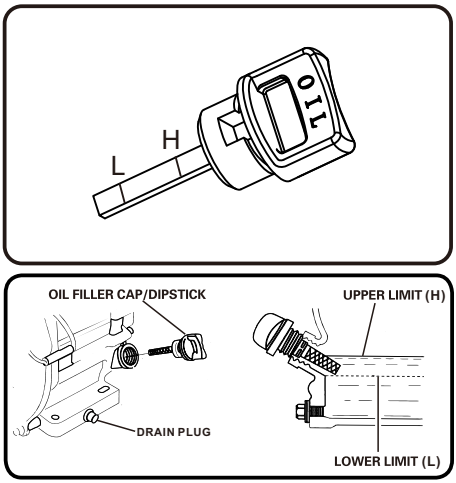
Add Engine Oil

We recommend using SAE 10W-30 API SL 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.

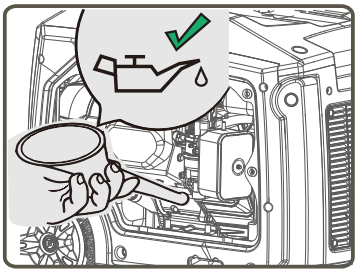
NOTICE Do not attempt to crank or start the engine before it has been properly filled with the recommended type and amount of oil. Damage due to operation with no oil will void your warranty.



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.



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.

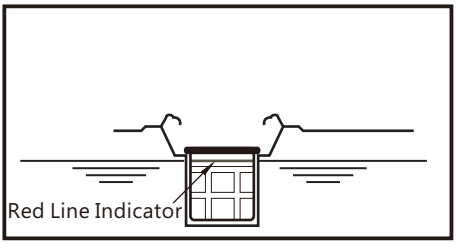
- Turn generator engine OFF and let it cool at least 2 minutes before removing fuel cap.
- Do Not refuel or move generator when engine is running.
- Move generator outdoors prior to adding or draining fuel
- Keep fuel away from any ignition sources.
- Do not overfill tank, allow space for fuel expansion.
- 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.

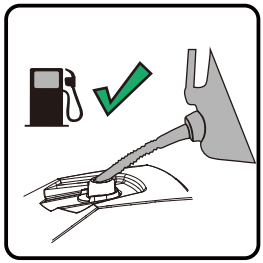
Fuel must meet these requirements:

- 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.

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	355717004	3000-6000Feet
Altitude main jet 2	355717005	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

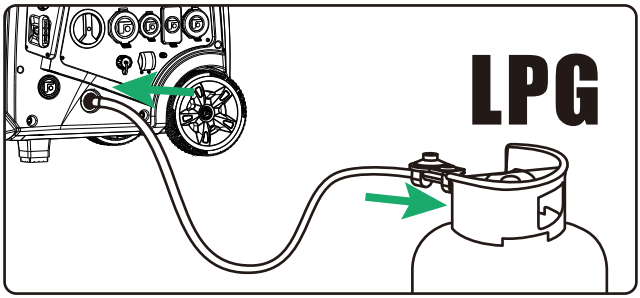
Your FIRMAN Power Equipment product is designed and rated for continuous operation at ambient temperatures up to 104°F (40°C). The generator may be operated at temperatures ranging from 5°F(-15°C) to 122°F (50°C) for short periods. If the generator is exposed to temperatures outside this range during 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.

Connecting LPG/ NG Fuel

WARNING! Liquid Petroleum gas (LPG) and Natural Gas (NG) are extremely flammable which could cause burns or fire resulting in death or serious injury.

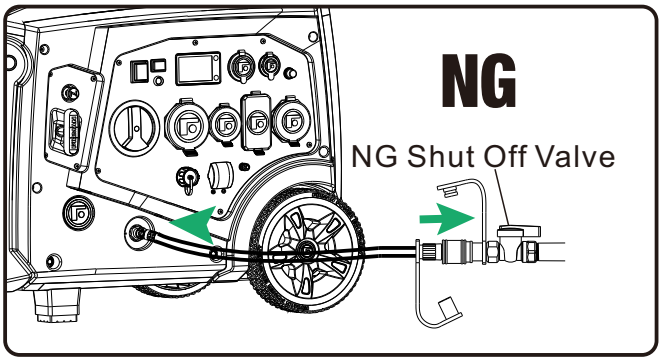
- The fuel supply line must always be shut off when the engine is not running. Failure to shut off fuel may allow fuel to leak at the generator.
- Do not place the LPG/NG sources in the path of muffler outlet or near any ignition source.
- Keep a fire extinguisher near the generator all the time.
- Do not use or store LPG/NG portable sources not in use near generator or in a building, garage or enclosed area.
- All LPG/NG supply/ piping lines must be installed by a qualified plumber.
- If you smell gas, close off all gas sources and contact a qualified plumber to inspect and repair the LPG or NG system.
  Prior to each days first use spray a soapy water solution on LPG/NG fuel connections to check for leaks.
- Never use a gas container, LPG/ NG connector hose, LPG cylinder or NG source that appears to be damaged.
- Do not connect or disconnect the LPG/ NG source in an enclosed area.
- LPG is heavier than air and can accumulate in confined / low spaces if there is a leak.

NOTICE If a fuel supply connection is necessary it must be installed in accordance with all local codes or regulations, or in the absence of local codes or regulations, in accordance with the National Fuel Gas Code (NFPA 54/ANSI Z223.1) and CSA B149.1 (Natural Gas and Propane Installation Code), as applicable. If possible the fuel supply connection should be close to the outdoor operating location. This will reduce the cost of the flexible fuel run. An approved flexible fuel line must be installed between the generator LPG/NG Hose Connector (Inlet) and the fuel supply connection. In no case should this information be interpreted to conflict with any local, state, or national code. If in doubt, always follow local codes.



- Always keep the LPG cylinder in an upright position.
- Use only DOT LPG cylinders in vapor service with type 1, right hand ACME threads. Verify the re-qualification date on the cylinder has not expired.
- All new cylinders must be purged of air and moisture prior to filling. The purging process should be done by your propane gas supplier.

Attach the LPG regulator hose assembly (included) to the LPG hose connector (inlet) on the control panel of the generator. Tighten the nut with a 19 mm or adjustable wrench. Remove the safety plug or cap from the LPG cylinder valve. Attach the LPG regulator to the cylinder valve. Do not use a wrench to tighten LPG cylinder nut. Tighten the nut by hand clockwise to a positive stop. Using a wrench may damage LPG cylinder components.



Connect the locally approved flexible fuel supply line (not included) to the LPG/NG connector (inlet) on the control panel and the fuel Source. We recommend you use FIRMAN 25ft (7.62m) Quick Connect Hose Kit (Model 1815) or 10ft (3m) Quick Connect Hose Kit (Model 1805) for Natural Gas (NG) connection (This item is not included). Hose requirements may vary in different regions depending on local codes. Contact your local licensed plumber to ensure complete compliance with all codes. Make sure the NG source location and hose used allows the portable generator to be located at least 20ft (6m) from any occupied spaces.

Intelligauge Display Screen - Battery Power Saving Mode

This generator is equipped with an electronic module which consumes battery power. When the main fuel selector switch is turned to the GAS or LPG/NG position, the intelligauge display screen will turn light for up to 4 minutes (before going off). Start the engine successfully anytime during the 4 minutes. If portable generator is not started during this 4-minute period the portable generator will switch to Battery Power Saving Mode to conserve battery life.

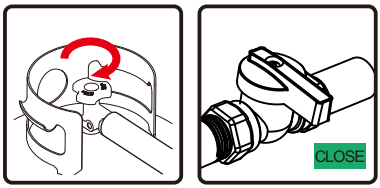
NOTICE Your portable generator is equipped with an internal battery charger that will properly charge the battery only when the engine is running.

The generator cannot be started in Battery Power Saving Mode. Turn main fuel selector switch to the off position and back to the GAS or LPG/NG position to reset the RED indicator 4-minute electronic module.

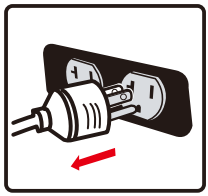
3.Starting the Generator on Gasoline

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.

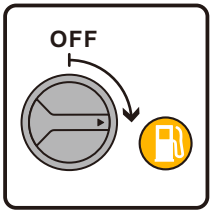
3.If connected make sure the LPG cylinder knob or the NG source valve are fully closed or disconnected.



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

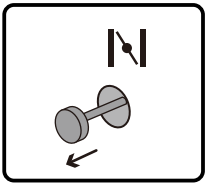


5. Turn the main fuel selector switch to “GAS” position.

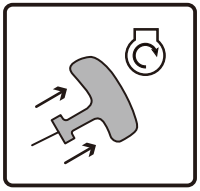


NOTICE When the main fuel selector switch is turned to the GAS position, the intelligauge display screen will turn light for up to 4 minutes (before going off).

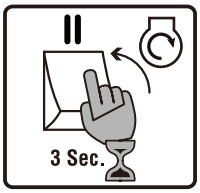
6. Pull the choke button to the “**CHOKE**” position. You do not need to choke a warm engine.



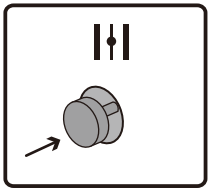
7. For recoil start only-Pull the starter cord slowly until resistance is felt and then pull rapidly to start engine.



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



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



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

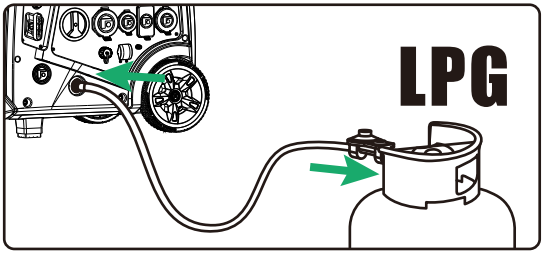
NOTICE If engine starts but fails to run, or if portable generator shuts down during operation, check oil level. See Low Oil Shutdown section for more information.

4. Starting the Generator on LPG

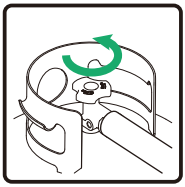
1. Before starting the generator, check for loose or missing parts and for any damage which may have occurred during shipment. Ensure spark plug, muffler, fuel cap, and air cleaner are all in place.

2. Move portable generator outdoors to safe operating location downwind and at least 20 feet from any occupied spaces.

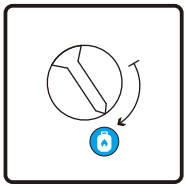
3. Connect the LPG hose with regulator to both LPG cylinder and portable generator LPG/NG Hose Connector (inlet).



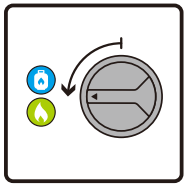
4. Fully open the LPG cylinder knob.



5. Turn the LPG/NG selector switch to LPG position.

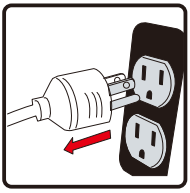


6. Turn the main fuel selector switch to LPG/NG position.

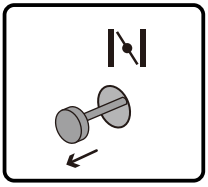


NOTICE When the main fuel selector switch is turned to the LPG/NG position, the intelligauge display screen will turn light for up to 4 minutes (before going off).

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

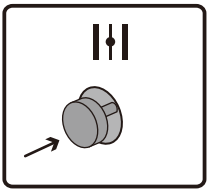


8. Pull the choke button to the "**CHOKE**" position. You do not need to choke a warm engine.

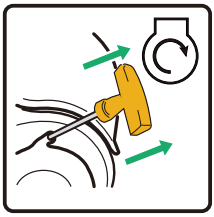


9. For recoil start only - PULL-TO-PRIME Pull the starter cord 1-2 times. Pull slowly until resistance if felt and then pull rapidly.

10.For recoil start only - Press the choke button to the run position.

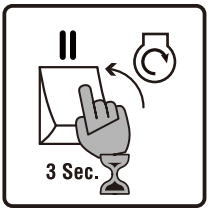


11. For recoil start only - PULL-TO-RUN Pull the starter cord slowly until resistance if felt and pull rapidly to run the portable generator.

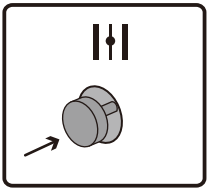


If the engine fails to start in 1-2 pulls with choke in the RUN position, move choke lever to START position and repeat the PULL-TO-PRIME step (9).

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



13. For electric start only - Press the choke button to the run position.

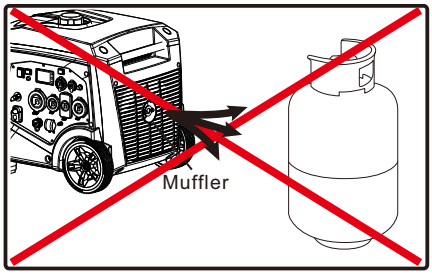


14. Allow portable inverter generator to run at no load for a few minutes to stabilize before plugging in any electrical devices.

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.

NOTICE Observing frost on LPG cylinder and regulator is common during operation and normally is not an indication of a problem. In unusual situations this frost may eventually restrict the flow of LPG gas to the generator resulting in deteriorating performance. In these rare situations it can be helpful to:

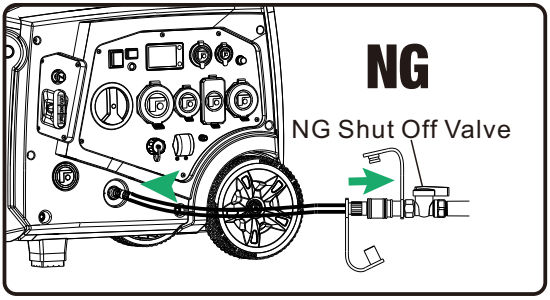
- Exchanging fuel cylinders to allow the first cylinder to warm up, repeating as necessary.
- Placing the LPG cylinder at the end of the generator near the handle, where engine fan air flows out from the generator. This air is slightly heated by air flowing over the engine.
- Do not place the LPG cylinder in the path of the muffler exhaust outlet.



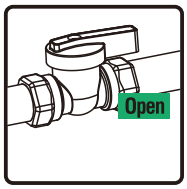
- The LPG cylinder and components can be temporarily warmed by pouring warm water over them.

5. Starting the Generator on NG

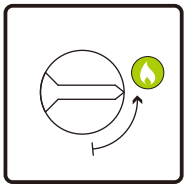
1. Before starting the generator, check for loose or missing parts and for any damage which may have occurred during shipment. Ensure spark plug, muffler, fuel cap, and air cleaner are all in place.
2. Move portable generator outdoors to safe operating location downwind and at least 20 feet from any occupied spaces.
3. Connect the NG hose to both the NG source and portable generator LPG/NG Hose Connector (inlet).



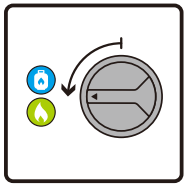
4. Fully open the NG source valve.



5. Turn the LPG/NG selector switch to NG position.

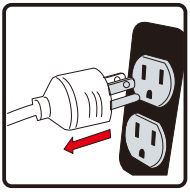


6. Turn the main fuel selector switch to LPG/NG position.

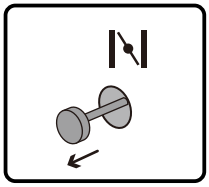


NOTICE When the main fuel selector switch is turned to the LPG/NG position, the intelligauge display screen will turn light for up to 4 minutes (before going off).

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

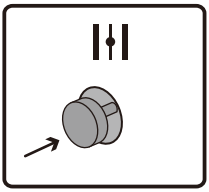


8. Pull the choke button to the "**CHOKE**" position. You do not need to choke a warm engine.

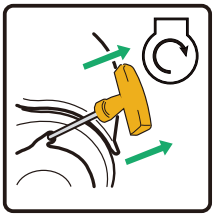


9. For recoil start only - PULL-TO-PRIME Pull the starter cord 1-2 times. Pull slowly until resistance if felt and then pull rapidly.

10.For recoil start only - Press the choke button to the run position.

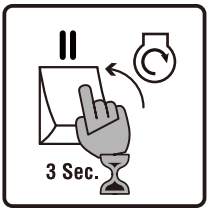


11. For recoil start only - PULL-TO-RUN Pull the starter cord slowly until resistance if felt and pull rapidly to run the portable generator.

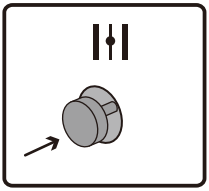


If the engine fails to start in 1-2 pulls with choke in the RUN position, move choke lever to START position and repeat the PULL-TO-PRIME step (9).

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



13. For electric start only - Press the choke button to the run position.



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

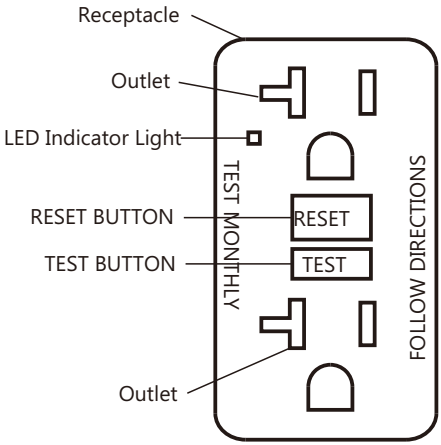
NOTICE If engine starts but fails to run, or if portable generator shuts down during operation, check oil level. See ***Low Oil Shutdown*** section for more information.

6. 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

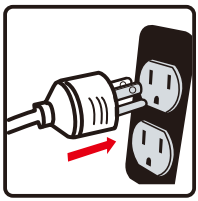
In addition to the manual test / reset feature the GFCI receptacle tests itself periodically to confirm the GFCI electronics are functional. The indicator light will be solid green when the GFCI is powered from the generator and working correctly.
Self-test indications: If the indicator light is solid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

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.

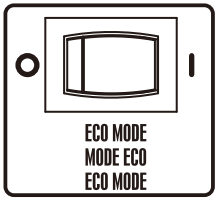
Install battery-powered carbon monoxide alarm(s) in your home. Don't run generator in enclosed areas.

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 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.

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 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.

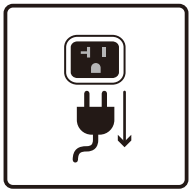
WARNING!

- 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.

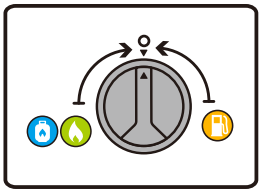
7. Stopping the generator

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.

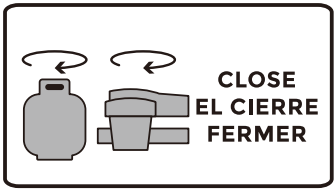


Let the generator run at no-load for one minute to stabilize internal temperatures of the engine and generator.

2. Turn the main fuel selector switch to OFF (O) position.



3. Fully close the LPG cylinder knob and NG source valve.



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 “P” light will blink when the load exceeds 5710W(approximately) . If the load exceeds 5950W (approximately), the light will turn on and cut power to the receptacles in 10 seconds. If the load exceeds 6050W(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 240V inverter generators with parallel ports, including two FIRMAN inverters model WT05571 can be paralleled to increase the total available electrical power to 11000 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.	√				
LPG Regulator /Hose Assy.	Check for damage and leaks. 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 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.

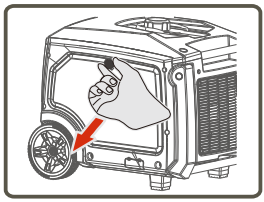
Change Engine Oil

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.

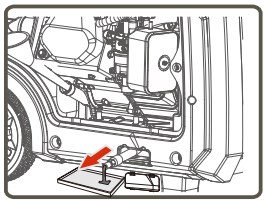
CAUTION! Avoid prolonged or repeated skin contact with used motor oil. Used motor oil has been shown to cause skin cancer in certain laboratory animals. Thoroughly wash exposed areas with soap and water.

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

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



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

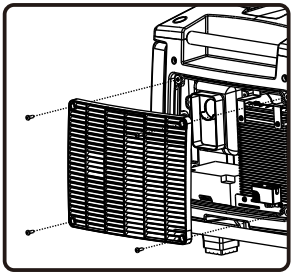


(c) Remove yellow drain bolt.
(d) Tilt the generator on its side and allow the oil to drain completely.
(e) Replace yellow drain bolt.
(f) Fill the engine with oil until it reaches the HIGH(H) level on the oil filler cap. DO NOT OVERFILL.

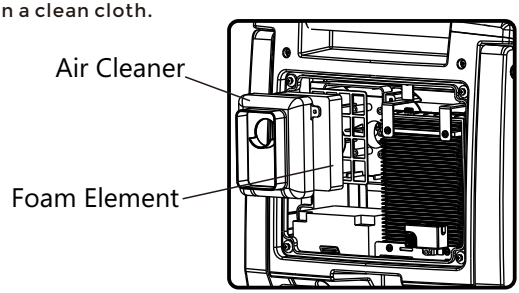
NOTICE We recommend using SAE 10W-30 API SL or higher oil for best performance. Do not use special additives. See **Oil and Gasoline**

Air Filter Maintenance

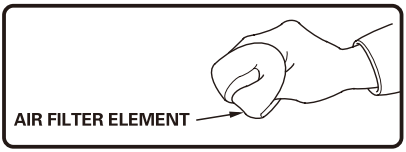
(a) Remove the air cleaner cover and locate the air filter plastic cover.



(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.

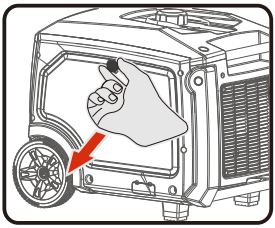
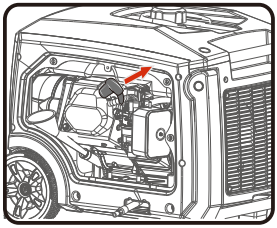
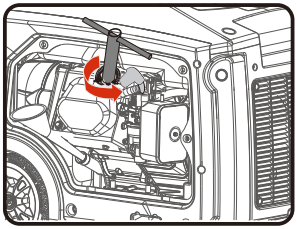
Spark Plug Maintenance

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

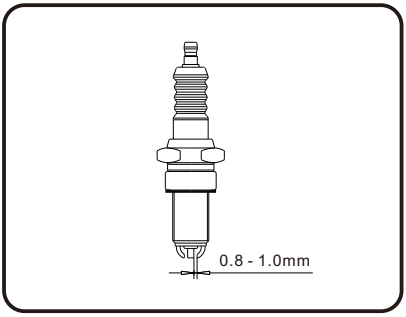
(a) Remove the maintenance cover.

(b) Remove the spark plug boot.

(c) Remove spark plug using provided wrench.

(d) Inspect spark plug for damage and clean with a wire brush before reinstalling. Replace if damaged.
(e) Adjust the electrode gap to 0.031 - 0.039 in. (0.8 - 1.0 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: F7RTJC

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)

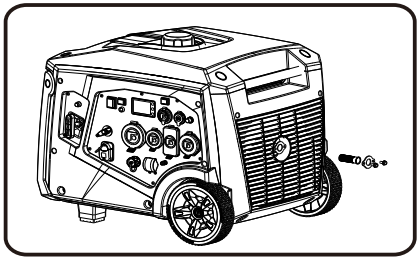
Muffler and Spark Arrester

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

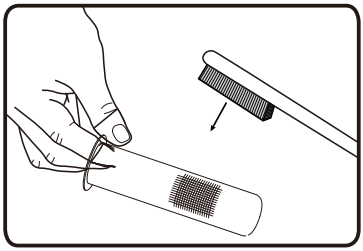
- Do not touch hot parts.
- It is a violation of California Public Resource Code, Section 4442, to use or operate the engine on any forest-covered, brush-covered, or grass-covered land unless the exhaust system is equipped with a spark arrester, as defined in Section 4442, maintained in effective working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



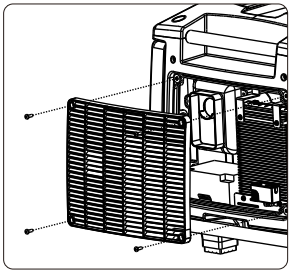
4. Replace the spark arrester if it is damaged. If replacement parts are required, make sure to use only FIRMAN original equipment replacement parts.
5. Position the spark arrester in the muffler and attach spark arrester cover with the screws.
NOTICE Failure to clean or replace spark arrester may result 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.

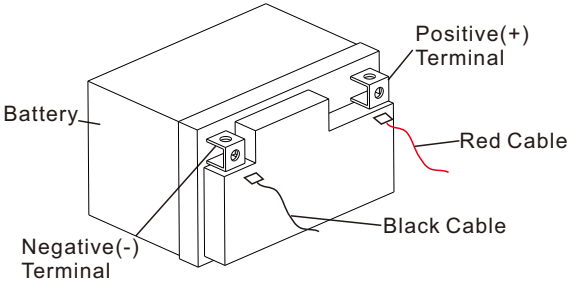
Battery Replacement

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.

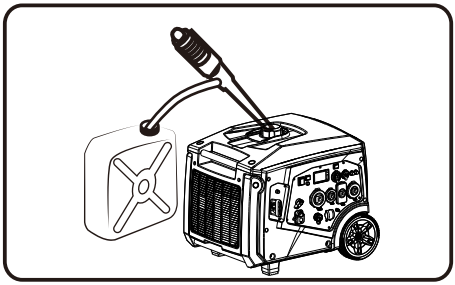
Long Term Storage

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

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. Shorted generator circuit. 4. Clogged or dirty fuel filter.	1. Disconnect shorted electrical load. 2. Contact authorized service facility. 3. Contact authorized service facility. 4. Clean or replace fuel filter.
Engine will not start; starts and runs rough or shuts down when running.	1. Fuel selector switch set to OFF (O) position. 2. The indicator light is OFF or flashing red. 3. Low oil level. 4. Dirty air cleaner. 5. Out of gasoline. 6. Stale gasoline. 7. Spark plug wire not connected to spark plug. 8. Bad spark plug. 9. Water in gasoline. 10. Flooded. 11. Excessively rich fuel mixture. 12. Clogged or dirty fuel filter. 13. Starting battery may have insufficient charge. 14. Out of LPG/NG. 15. LPG cylinder knob / NG supply valve is not open. 16. Out of battery power.	1. Set fuel selector switch to "GAS" or "LPG/NG" position. 2. Must have solid red indicator light to be able to start the engine. 3. Fill crankcase to proper level or place generator on level surface. 4. Clean or replace air cleaner. 5. Fill fuel tank with gasoline. 6. Drain fuel tank and carburetor; fill with fresh gasoline. 7. Connect wire to spark plug. 8. Replace spark plug. 9. Drain gas tank and carburetor; fill with fresh gasoline. 10. Wait 5 minutes and re-crank engine. 11. Contact authorized service facility. 12. Clean or replace fuel filter. 13. Check battery output and charge battery as necessary. 14. Replace LPG cylinder/ check NG supply. 15. Fully open LPG cylinder knob / NG supply valve. 16. Start Engine in "GAS" position. Charge or replace battery.
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 gasoline or LPG/NG. 2. Dirty air cleaner. 3. Low oil level.	1. Fill fuel tank with gasoline or replace LPG cylinder / check NG supply. 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.

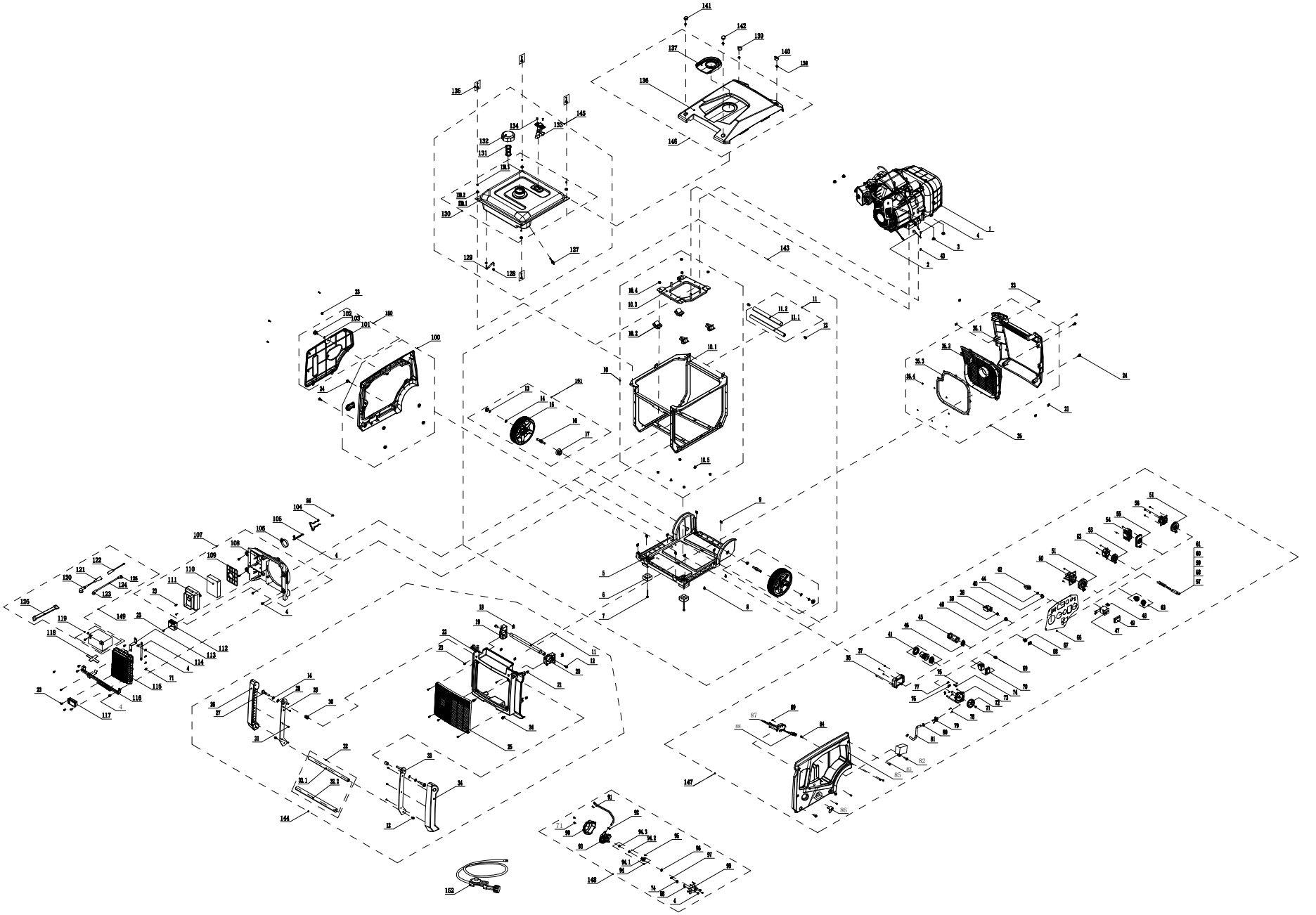
SPECIFICATIONS

Model	WT05571		
Starting Watts	6850(GASOLINE)/6250(LPG)/5600(NG)		
Running Watts*	5500(GASOLINE)/5000(LPG)/4500(NG)		
Rated AC Voltage	120/240V		
Rated Fequency	60Hz		
Phase	Single		
Voltage Regulator	Digital		
Power Factor	<3%		
Total Harmonic Distortion(THD)	1		
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 Start		
Fuel	Unleaded Automotive Gasoline/LPG/NG		
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		
Natural gas fuel pressure range	7-11 inches water column (0.25-0.40 psi)(13-20mm mercury)(1.7-2.7 kpa)		
Natural gas fuel consumption	No Load	Half Load	Full Load
	19.8ft^3/hr(0.6m^3/hr) 19,800 BTU/h (5,803 W)	39.9ft^3/hr(1.1m^3/hr) 39,941 BTU/h (11,706 W)	78ft^3/hr(2.2m^3/hr) 78,000 BTU/h (22,860 W)
LPG fuel consumption	0.8 lb/hr (0.7 L/hr) 17,317 BTU/h (5,073 W)	3 lb/hr(2.8L/hr) 64,644 BTU/h (18,957 W)	5.3 lb/hr(4.9L/hr) 114,393 BTU/h (33,546 W)

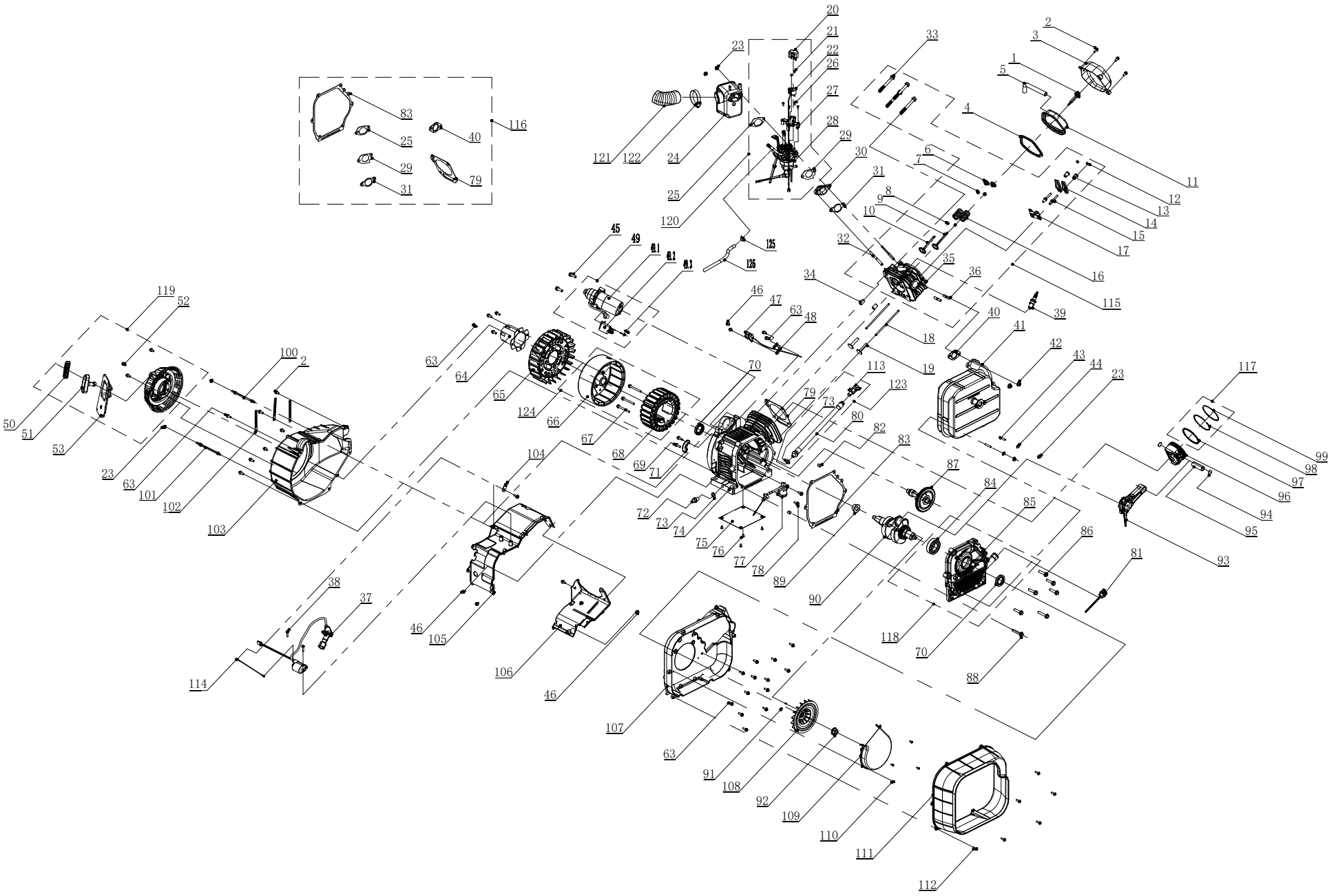
*Generator certified in accordance with CSA (Canadian Standards Association) standard C22.2No. 100-14, Motors and Generators and complies with PGMA (Portable Generator Manufacturers' Association) standard ANSI/PGMA G300-2023, Safety and Performance of Portable Generators.

PARTS DIAGRAM AND PART LIST

WT05571 PARTS DIAGRAM



322cc ENGINE PARTS DIAGRAM



WT05571 Inverter Generator

NO.	Part Number	Discription	Qty.
1	355468301	Engine Subassembly	1
2	355718300	Ground Wire	1
3	357713531	Nut M10	4
4	336718301	Flange Bolt M6×12	16
5	355728300	Base Assy	1
6	355728301	Base Mounting	2
7	355718301	Flange Bolt M6×55	2
8	336718301	Bolt M6x12	4
9	333717014	Nut M6	8
10	355418300	Frame Assy	1
10.1	355418301	Frame	1
10.2	355428300	Isolator	4
10.3	355418302	Base Bracket	1
10.4	336718315	Nut M8	8
10.5	355718306	Bolt M5	2
11	355418303	Upper Handle Assy	2
11.1	355718303	Upper Handle	2
11.2	355728302	Cover, Upper Handle	2
12	336713006	Flange Bolt M8×20	6
13	330713584	Retaing Ring Ø12	2
14	330713585	Washer Ø12	4
15	355728326	Wheel	2
16	355718328	Axle Comp	2
17	355718424	Nut M10x1.25	2
18	336718338	Bolt M6×12	4
19	355718316	Left Bracket, Handle	1
20	355718317	Right Bracket, Handle	1
21	317713524	Cage Nut M5	8
22	355728317	Left Cover Assy	1
23	355718304	Screw&Washer Assembly M5×14	29
24	355718417	Bolt M6×20	8
25	355728315	Maintenance Window	1
26	355728313	Left Handle Cover Plate	1
27	355718311	Handle Bolt	2
28	355718312	Washer(Ø23.4xØ13.1x1)	2
29	355718313	Left Handle Support	1
30	355728314	Bushing	2
31	355718318	Screw M5×14	6
32	355418305	Lower Handle Assy	1
32.1	355718315	Lower Handle	1
32.2	355728316	Cover, Lower Handle	1
33	355718319	Right Handle Support	1
34	355728318	Right Handle Cover Plate	1
35	355428301	Right Cover Assy	1
35.1	355428305	Cover,Right Side	1
35.2	355728328	Cover,Right Muffler	1
35.3	355728329	Rubber Seal Sleeve	1
35.4	355718335	Spring Leaf	7

NO.	Part Number	Discription	Qty.
36	355428310	Multifunction Table	1
37	330713596	Nut M4	20
38	336713585	A.C 20A Breaker,Push Button	1
39	336457020	Circuit Breaker Nut	1
40	336755005	Circuit Breaker Cover	2
41	355718325	USB-C	1
42	329753003	D.C 10A Breaker,Push Button	1
43	336713516	External Teeth Lock Washer Ø6	1
44	333728300	Circuit Breaker Nut	1
45	317713565	Cigar Lighter	1
46	336713674	Outlet Cover	1
47	380713526	Circuit Breaker Amp 30A	1
48	336713569	Screw M4×8	4
49	393725501	Cover	1
50	380713518	Receptacle 14-50R	1
51	330713601	Outlet Cover TT-30R	2
52	336713601	Receptacle L14-30R	1
53	336713573	Outlet Cover L5-30R	1
54	357713588	Receptacle GFCI	1
55	357713541	Outlet Cover 5-20R GFCI	1
56	336713584	Receptacle TT-30R	1
57	357713542	Bolt M6×22	1
58	380713515	Nut M6	2
59	336713512	Lock Washer Ø6	2
60	336713513	Flat Washer Ø6	2
61	336713516	External Star Washer Ø6	1
63	355718324	Parallel Port	1
66	355718400	Control Panel	1
67	317718305	Economic Switch	1
68	316735503	Switch Cover	1
69	336755002	Indicator Light	1
70	340715046	Engine Switch	1
71	336718383	Bolt M4×14	15
72	399725533	Fuel Valve Knob	1
73	355728358	Multi-Function Switch Seat	1
74	336713822	Micro Switch	4
75	399715591	Screw St2.9x16	4
76	336713821	Micro Switch	1
77	392775516	Screw St2.9x28	2
78	393717002	Screw M5x35	2
79	355418316	Fuel Valve	1
80	330713508	Clip Ø10.5×8	2
81	355728324	Fuel Pipe,Fuel Tank To Fuel Valve	1
82	336718364	Screw M5x20	1
83	355458302	Charging Module	1
84	355718330	Screw M6×12	2
85	355728368	Front Cover	1
86	336713826	LPG Inlet Cover	1

NO.	Part Number	Discription	Qty.
87	355718407	Bracket,Choke Valve Rope	1
88	355418318	Choke Valve Rope Assy	1
89	355718421	Screw St3.5x13	3
90	355728365	Main Regulator Cover	1
91	355728364	LPG Pipe	1
92	336713835	Clamp	2
93	355418317	Main Regulator Assy	1
94	355428311	Switch Knob Assy	1
94.1	355728362	Switch Knob	1
94.2	355728372	O-Ring(Ø11xØ2.5)	1
94.3	355728373	O-Ring(Ø15xØ2.4)	1
95	355718405	Dawl Pin	1
96	355728366	Switch Knob Cover	1
97	355718406	Nut M3	2
98	355718422	Heel Block	1
99	355718404	Bracket,Main Regulator	1
100	355728310	Rear Cover	1
101	355728311	Protector ,Rear Cover	1
102	355718307	Rear Cover Knob	1
103	355718308	Limit Nut	1
104	355718329	Pipe Clamp	1
105	317713577	Clip	1
106	355718320	Clamp	1
107	355728352	Air Filter Assembly	1
108	355728322	Left Cover	1
109	355728321	Air Cleaner Element Supporter	1
110	355728320	Element, Air Cleaner	1
111	355728319	Case,Air Cleaner	1
112	355458303	Dc Module	1
113	355718310	Clip Of Control Unit	1
114	355718384	Ground Wire	1
115	355458315	Inverter	1
116	355718309	Stents,Inverter	1
117	355428303	Co Module	1
118	355728312	Grommet,Battery	1
119	355458305	Battery(1.6ah)	1
120	357713571	Sheath,Connecter Black	1
121	336713692	Battery Cable(Male)	1
122	355718416	Battery Cable	1
123	357713570	Sheath,Connecter Red	1
124	355718383	Battery Cable(Red)	1
125	336713611	Sheath	1

NO.	Part Number	Discription	Qty.
126	355728356	Battery Voltage Strip	1
127	336713807	Tank Fitting With Filter	1
128	317713553	Clip Ø8×6	2
129	355728303	Pipe	1
130	355418304	Fuel Tank Assy	1
130.1	355418326	Fuel Tank	1
130.2	336713542	Grommet, Fuel Tank	4
130.3	357713600	Bushing	4
131	333427007	Fuel Filter, Wire Mesh	1
132	330713500	Fuel Tank Cap	1
133	355428302	Fuel Gauge Assy	1
134	336417031	Screw M5×16	2
135	310715064	Bolt M6x20	4
136	355728305	Cover,Top	1
137	355728304	Fuel Guide Plate	1
138	355718306	Bolt M5	4
139	355728306	Plug	1
140	355728307	Plug	1
141	355728308	Plug	1
142	355728309	Plug	1
143	355428312	Base Components Assy	1
144	355428313	Left Cover Assy	1
145	355418327	Fuel Tank Installation Assy	1
146	355428314	Upper Cover Assy	1
147	355418328	Control Panel Assy	1
148	355418329	Main Regulator Installation Assy	1
149	355458316	Battery Assy	1
150	355428315	Rear Maintenance Cover Assy	1
151	355428316	Wheel Assy	1
152	336713834	Regulator/Hose Assy	1

FIRMAN 322cc Engine

NO.	Part Number	Discription	Qty.
1	357723527	Bolt	1
2	336718338	Bolt M6x12	7
3	355728331	Guard,Cyl. Head Cover	1
4	357723525	Cylinder Cover Gasket	1
5	355728332	Breather Pipe	1
6	355718337	Ret.,Valve Spring	2
7	355728333	Oil Seal,Valve	2
8	355718338	Lock Clip. Valve	4
9	355718339	Valve,Exhaust	1
10	355713001	Valve,Intake	1
11	355728348	Cover Subassembly, Cylinder Head	1
12	336723528	Nut, Valve Lock	2
13	336723529	Adjusting Nut,Valve	2
14	355718411	Arm,Valve Rocker	2
15	355718395	Bolt,Rocker Arm	2
16	357723535	Spring,Valve	2
17	355728334	Guide Plate,Push Rod	1
18	355718341	Push Rod	2
19	355718342	Valve Lifter	2
20	336723605	Cover,Stepper Motor	1
21	355718396	Screw M4×8	2
22	355458314	Stepper Motor ,Throttle Valve	1
23	336723555	Nut M6	6
24	355728352	Case,Air Cleaner Comp	1
25	355728349	Gskt,Air Cleaner	1
26	355718397	Screw M4x10	4
27	355728354	Stepper Motor Bracket	1
28	355418314	Carburetor Comp.	1
29	355718343	Gasket, Carburetor	1
30	355728337	Insulator.carburetor	1
31	355718344	Gasket,Insulator	1
32	355718345	Stud Bolt(M6×M8×110)	2
33	355718346	Bolt	4
34	357723544	Dawl Pin	2
35	355418319	Cylinder Head Comp	1
36	336723539	Stud Bolt(M8×35)	2
37	355458307	Ignition Assy	1
38	317713538	Bolt M5×20	2
39	355718410	Spark Plug	1
40	393723013	Muffler Gasket	1
41	355418308	Muffler Assy	1

NO.	Part Number	Discription	Qty.
42	336718318	Nut M8	2
43	330723555	Stud Bolt(M6×32)	2
44	355718413	Muffler Bracket Gasket	2
45	355718392	Bolt M8×28	2
46	355718349	Bolt M6×8	5
47	355458308	Trigger Assy.	1
48	355718350	Bracket,Trigger	1
49	355458313	Starter Motor Assy	1
49.1	355458317	Starter Motor	1
49.2	355458318	Relay,Starter	1
49.3	355718423	Bolt M4×16	2
50	330723526	Rope Button	1
51	355428307	Grip ,Starter	1
52	355718351	Bolt M6×10	3
53	355728370	Guide,Rope	1
63	312715017	Bolt M6×16	24
64	355718355	Pulley,Starter	1
65	355728339	Cooling Fan	1
66	355458310	Rotor Assy	1
67	336718384	Bolt M6×60	3
68	355458311	Stator Assy.	1
69	312715059	Bolt M6×20	2
70	355728341	Oil Seal	2
71	355728340	Guard,Harness	1
72	380717007	Bolt, Drain Plug	1
73	357723502	Washer,Drain Bolt	2
74	355718358	Crankcase Comp	1
75	355718359	Guard,Crank Case,Bottom	1
76	336713546	Screw M5x10	4
77	355728351	Oil Level Switch	1
78	336723526	Bolt M6×15	2
79	355718357	Gasket,Cylinder	1
80	355428308	Quick Oil Drain	1
81	355428309	Oil Dipstick Assembly	1
82	399715765	Dawl Pin	2
83	355718362	Crankcase Gasket	1
84	355718363	Radial Ball Bearing	1
85	355718360	Crankcase Cover	1
86	357713584	Bolt M8×35	5
87	355418310	Camshaft Comp	1
88	336713593	Bolt M8×45	2
89	357723571	Nut M16	1

NO.	Part Number	Discription	Qty.
90	355418311	Crank Comp	1
91	355718364	Dawl Pin	2
92	317723505	Nut M12	1
93	355418312	Connecting Rod Assy	1
94	399715726	Piston Pin Clip	2
95	355718367	Piston Pin	1
96	355718368	Piston	1
97	355718369	Ring Coil	1
98	355718370	Ring ,Second Piston	1
99	355718371	Ring ,First Piston	1
100	355718365	Stud Bolt	1
101	355718372	Stud Bolt	1
102	317713577	Wire Clip	3
103	355728342	Fan Cover	1
104	355718373	Lifting Lugs	1
105	355728343	Guard,Upper	1
106	355728344	Guard,Lower	1
107	355728345	Guard,Muff.,Back	1
108	355728346	Exhaust Fan	1
109	355718374	Cover,Exhaust Fan	1
110	317713516	Screw,M4×14	4
111	355728347	Guard,Muff.,Front	1
112	399715657	Bolt M5×16	6
113	330723604	Bolt,Drain	1
114	355718394	Ground Wire	1
115	355418320	Cylinder Head Assy	1
116	355418321	Gasket Assy	1
117	355418322	Piston Rings Assy	1
118	355418323	Crankcase Cover Assy	1
119	355418324	Case Comp.,Recoil Starter	1
120	355418325	Carburetor Assy	1
121	355728371	Air Duct	1
122	355718320	Clamp	1
123	355428317	Quick Oil Drain Assy	1
124	355458319	Alternator Assy	1
125	330713508	Clip Ø10.5×8	1
126	355728374	Fuel Hose	1

NO.	Part Number	Discription	Qty.

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 replacementparts 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 2025-2026 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.

(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
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.
3. Catalytic muffler assembly including:
 - Exhaust manifold
 - Catalytic converter
 - Muffler gasket
 -pulse valve
4. Air induction system including:
 - Intake pipe/manifold
 - Air cleaner
5. Crankcase breather assembly including:
 - Breather connection tube
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.
www.firmanpowerequipment.com

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P/N:355745470 Rev:04