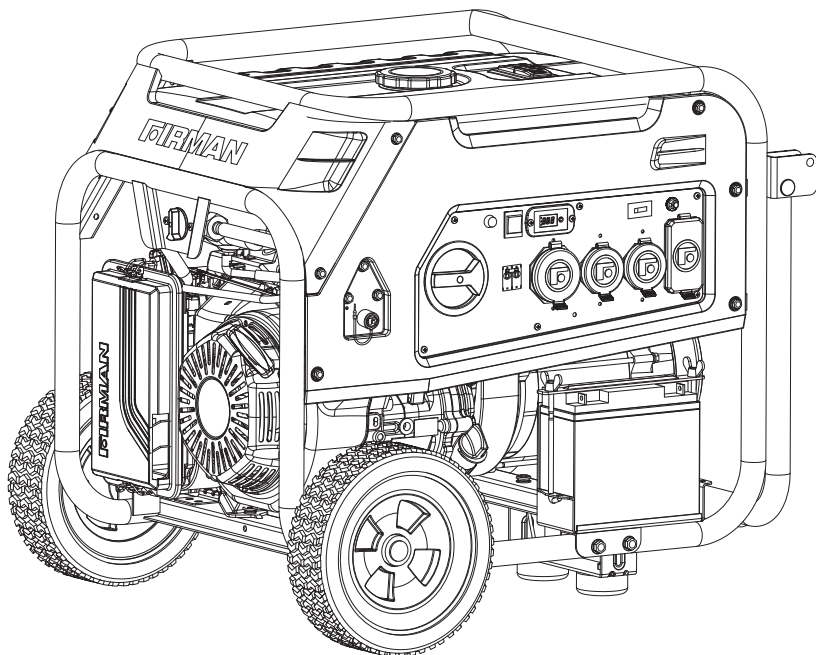


FIRMAN[®]

OPERATOR'S MANUAL TRI-FUEL PORTABLE GENERATOR



MODEL NUMBER
T07571

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



SERIAL NUMBER: _____

PURCHASE DATE: _____

INTRODUCTION

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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

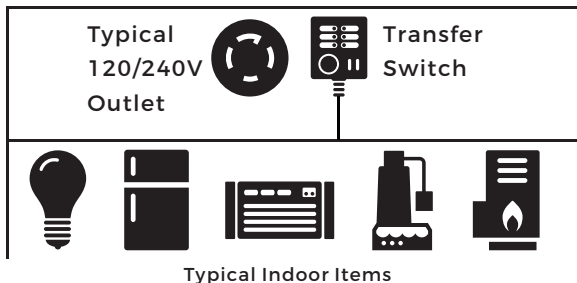
The generator has a system ground that connects the generator frame components to the ground terminals on the AC output receptacles. The system ground is connected to the AC neutral wire. The neutral is bonded to the generator frame.

Compliance Requirements

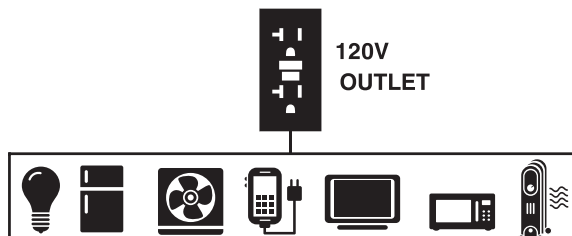
There may be Federal or State regulations, local codes, or ordinances that apply to the intended use of the generator. Consult a qualified electrician, electrical inspector, or the local agency having jurisdiction. This generator is not intended to be used at a construction site or similar activity as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

To Restore Home Power Using a Listed Transfer Switch

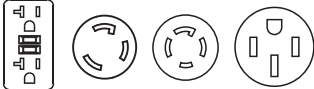
Connections to your home's electrical system must use a listed* transfer switch installed by a licensed electrician. The connection must isolate the generator power from the utility power and comply with all applicable laws and electrical codes.



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
Up to 50A	6

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 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.

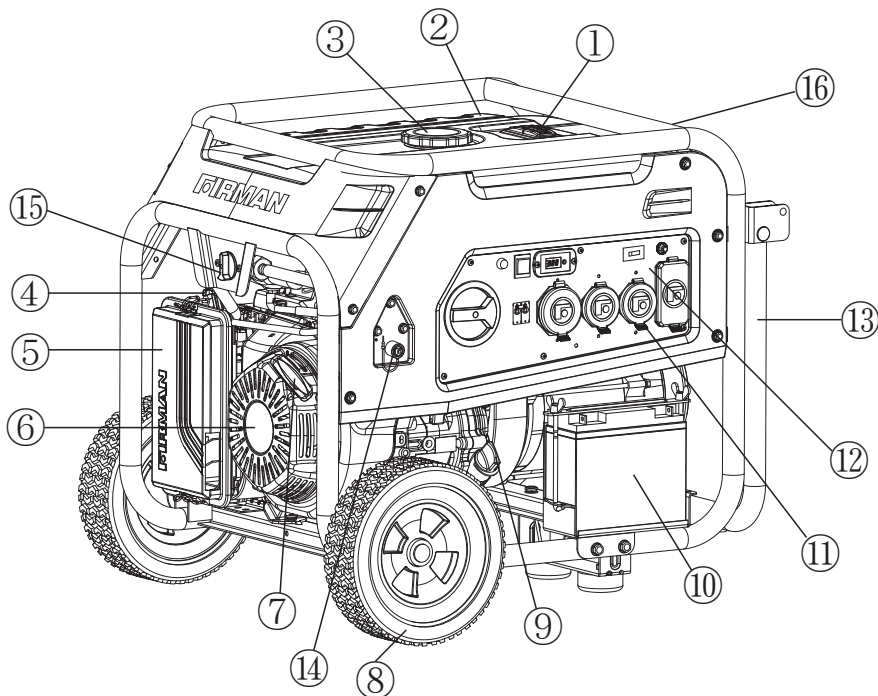


DANGER! Engine exhaust contains carbon monoxide, a poisonous gas that will kill you in minutes. You cannot smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

- 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.

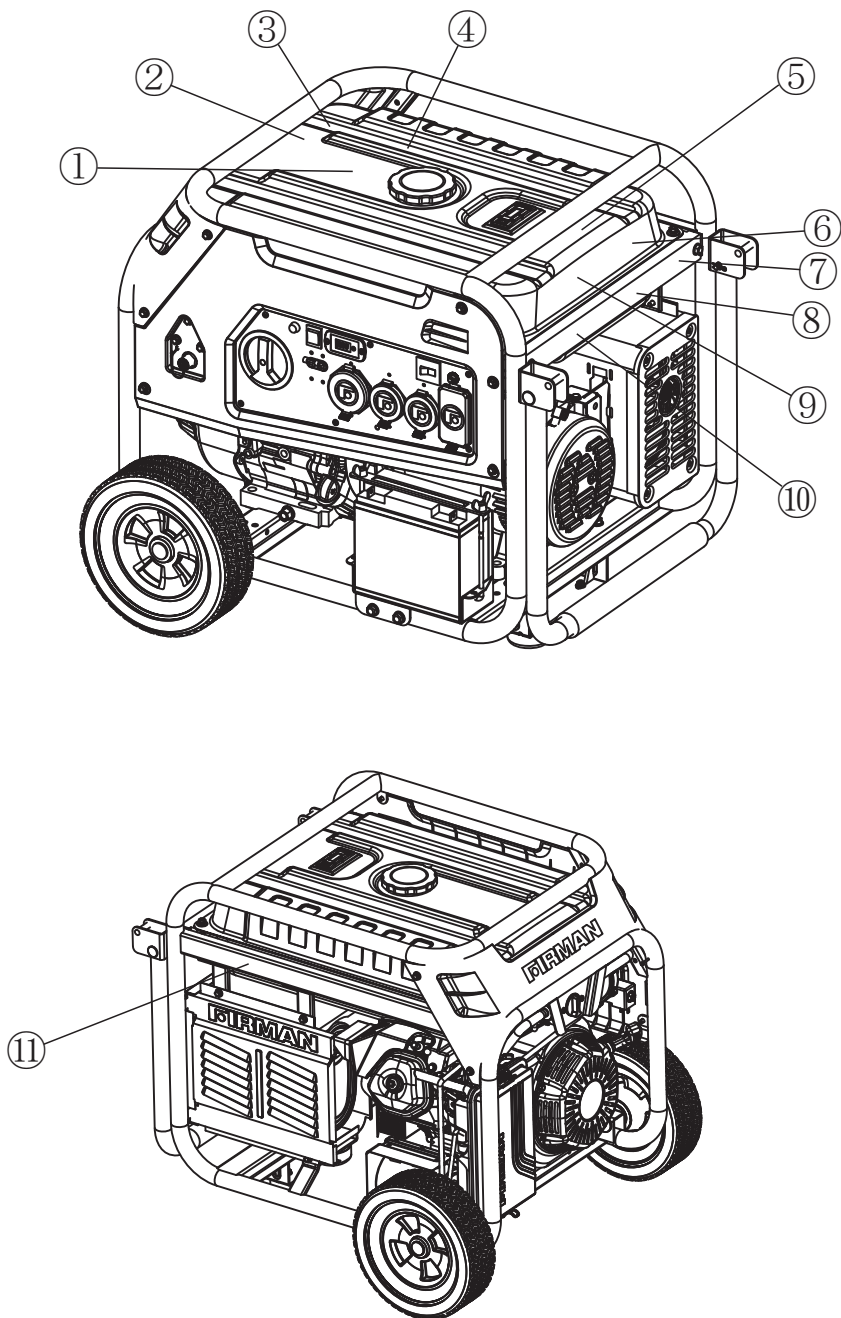
*Certified by a Nationally Recognized Testing Laboratory that the product complies to appropriate product safety test standards.

FEATURES AND CONTROLS



- | | |
|--|---|
| 1- Fuel Gauge | 11- Outlet Cover |
| 2- 8.0 Gallon Capacity Fuel Tank | 12- Control Panel |
| 3- Fuel Cap | 13- Handle |
| 4- Choke Lever(behind air filter box) | 14- LPG/NG Hose Connector(Inlet) |
| 5- Air Filter | 15- LPG/NG Selector Switch |
| 6- 439cc FIRMAN OHV Engine | 16- Data Decal / Serial Number |
| 7- Recoil Starter | |
| 8- 10.0" Flat Free Wheel | |
| 9- Oil Filler Cap | |
| 10- Battery | |

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



FEATURES AND CONTROLS

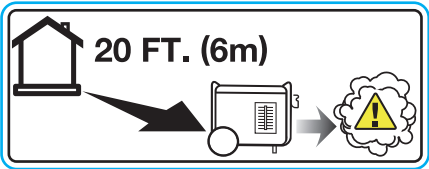
①

⚠ WARNING	⚠ ADVERTENCIA	⚠ AVERTISSEMENT
 Failure to follow warnings, instructions and operator's manual could result in death or serious injury.	 El incumplimiento de las advertencias, las instrucciones y el manual del operador podría provocar la muerte o lesiones graves.	 Le non-respect des avertissements, des instructions et du manuel de l'utilisateur peut entraîner la mort ou des blessures graves.
 Generator could cause electrical shock. • Do not run indoors to avoid wet conditions. • Do not run in rain or wet weather. • Transfer switch must be used when connecting to a home's electrical system.	 El generador podría producir una descarga eléctrica. • No utilice en interiores para evitar condiciones de humedad. • No utilice en la lluvia o en condiciones de humedad. • Es necesario usar un interruptor de transferencia cuando se conecta al sistema eléctrico de una casa.	 La génératrice pourrait provoquer un choc électrique. • Ne faites pas fonctionner à l'intérieur pour éviter les conditions humides. • Ne faites pas fonctionner sous la pluie ou par temps pluvieux. • Un commutateur de transfert doit être utilisé lors du raccordement au système électrique d'une maison.
 Hot exhaust gases could cause fires. Keep at least 5ft. (1.5m) clearance from any combustibles or structures, including overhead.	 Los gases calientes de salida podrían causar incendios. Manténgase a una distancia mínima de 1.5m de cualquier combustible o estructura, incluyendo lugares elevados.	 Les gaz d'échappement chauds peuvent provoquer des incendies. Gardez au moins 5 pi (1,5 m) de dégagement de tout comb-ustible ou de toute structure, y compris au-dessus.

②

NOTICE	AVISO	AVIS
 Operate, store and transport on firm level surface. • Tilting can cause fuel spillage.	 Operar, almacenar y transportar en una superficie firme y nivelada. • Inclinarlo puede causar un derrame de combustible.	 Faire fonctionner, entreposer et transporter sur une surface ferme et horizontale. • L'inclinaison peut causer un déversement de carburant.

③



④

⚠ 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.	El uso de un generador en interiores PUEDE MATAR A UNA PERSONA EN CUESTIÓN DE MINUTOS. Los gases de escape del generador pueden contener monóxido de carbono. Este es un gas tóxico que no se ve ni se huele.	L'utilisation d'un générateur à l'intérieur présente un danger. Il PEUT VOUS TUER EN QUELQUES MINUTES. L'échappement contient du monoxyde de carbone. Ce gaz est un poison inodore et invisible.
 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.	 NE JAMAIS utiliser dans un garage ou à l'intérieur, MÊME avec les portes et les fenêtres ouvertes.
	 Utilice sólo AL AIRE LIBRE y lejos de ventanas, puertas y orificios de ventilación.	 A n'utiliser qu'à L'EXTÉRIEUR et à distance de toutes fenêtres, portes et ouvertures.

⑤



Fuel level indicator
Indicador de nivel de combustible
Indicateur de niveau de carburant

⚠ WARNING

Fuel is flammable which could cause burns resulting in death or serious injury. • Turn engine off and let it cool at least 2 minutes before refueling. • Do not fill fuel above fuel level indicator. • Never add fuel to a hot or running generator.

⚠ ADVERTENCIA

El combustible es inflamable, lo que podría causar quemaduras resultantes en la muerte o lesiones graves. • Apague el motor y déjelo enfriar al menos 2 minutos antes de recargar combustible. • No llene el combustible por encima del indicador de nivel. • No cargue nunca combustible en un generador caliente o en funcionamiento.

⚠ AVERTISSEMENT

Le carburant est inflammable, ce qui peut provoquer des brûlures entraînant la mort ou des blessures graves. • Éteindre le moteur et le laisser refroidir au moins 2 minutes avant le remplissage. • Ne pas remplir au-delà de l'indicateur de niveau maximal de carburant. • Ne jamais ajouter de carburant à une génératrice chaude ou en marche.

⑥

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 devrait être nettoyé toutes les 100 heures. Éloignez l'échappement du moteur des structures occupées. Voir le manuel de l'utilisateur.

⑦

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.
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⑧

⚠ 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 contactez un plombier qualifié afin d'inspecter et de réparer le système GPL ou GN.

⑨

FOR RESIDENTS OF CALIFORNIA	PARA LOS RESIDENTES DE CALIFORNIA	POUR LES RÉSIDENTS DE LA CALIFORNIE
 ⚠ WARNING: This product and the engine exhaust from this product can expose you to chemicals including CO, which are known to the State of California to cause cancer or cause birth defects and other reproductive harm. For more information, go to www.P65Warnings.ca.gov .	⚠ ADVERTENCIA: Este producto y el escape del motor de este producto pueden exponerlo a productos químicos, incluido CO, que en el estado de California son conocidos por causar cáncer o causar defectos de nacimiento u otros daños reproductivos. Para obtener más información, vaya a www.P65Warnings.ca.gov .	⚠ AVERTISSEMENT: Ce produit et l'échappement du moteur de ce produit peuvent vous exposer à des produits chimiques, y compris le CO, qui sont connus par l'État de Californie pour causer le cancer ou causer des malformations congénitales et autres problèmes de reproduction. Pour plus d'informations, visitez www.P65Warnings.ca.gov .

⑩

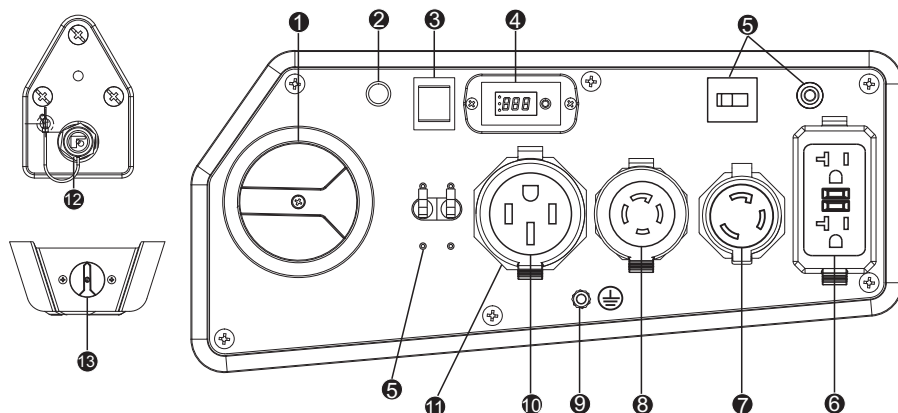
⚠ WARNING	⚠ ADVERTENCIA	⚠ AVERTISSEMENT
 Do not place the LPG cylinder in the path of muffler outlet!	¡No coloque el cilindro de GLP en la vía de salida del silenciador!	Ne placez pas le cylindre de GPL dans le chemin de sortie du silencieux !

⑪

⚠ WARNING	⚠ ADVERTENCIA	⚠ AVERTISSEMENT
 Muffler could cause burns resulting in serious injury. •Do not touch hot parts •Avoid hot exhaust gases	El silenciador podría causar quemaduras resultando en una lesión grave. •No toque las partes calientes •Evite los gases de escape calientes	Le silencieux pourrait causer des brûlures entraînant des blessures graves. •Ne touchez pas les pièces brûlantes. •Évitez les gaz d'échappement chauds

FEATURES AND CONTROLS

Control Panel



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

1. 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.

2. Indicator Light - When the main fuel selector switch is turned to the GAS or LPG/NG position, the indicator light will turn RED for up to 4 minutes (before going off). Starting the engine successfully anytime during the 4 minutes will turn the indicator light GREEN. See Indicator light-Battery Power Saving Mode section for more information.

3. 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.

4. 3-1 Data-Minder (Multi-Meter) - Push the SELECT button to show the Voltage, Hertz and running hours.

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

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

6. 120V, 20A Duplex GFCI (Ground Fault Circuit Interrupter)- NEMA 5-20R

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

7. 120V, 30A Twist Lock - NEMA L5-30R(Not GFCI protected)

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

8.120/240V, 30A Twist Lock - NEMA L14-30R(Not GFCI protected)

A maximum of 30 Amps current for 240 Volts or two independent 120 Volt loads at 30 Amps current each.

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

10. 120/240V, 50A - (NEMA 14-50R) (Not GFCI protected)

A maximum of 31.25 Amps current for 240 Volts or two independent 120 Volt loads at 31.25 Amps current each.

11. Outlet Cover - Protects the receptacles from dust and debris.

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

13. LPG/NG Selector Switch - Select either LPG or NG.

1. Location

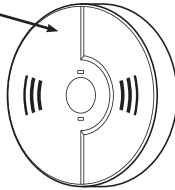


DANGER! Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You **CANNOT** smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

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

Carbon Monoxide Alarm(s)

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

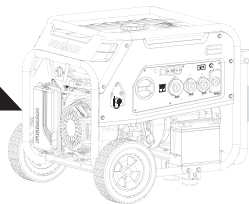


Prevent Carbon Monoxide (CO) Poisoning

Use outdoors at least 20 ft. (6.0 m) from any home.
Point exhaust away from all homes and occupied spaces.
Install CO alarms inside your home.



20 ft. (6.0 m) min.



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

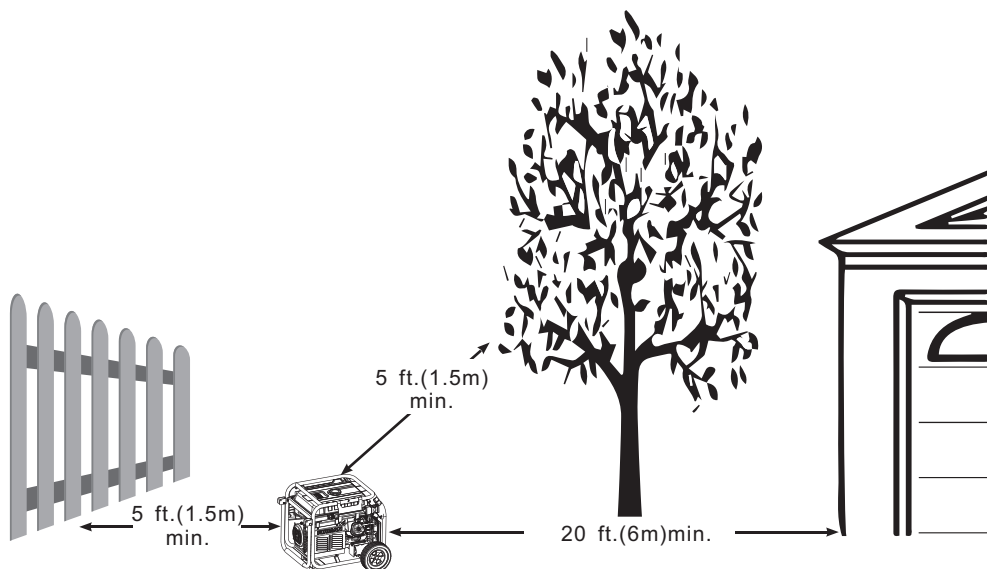
OPERATION

Reduce Risk of Fire



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

- Keep portable generator at least 5 ft. (1.5m) 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.

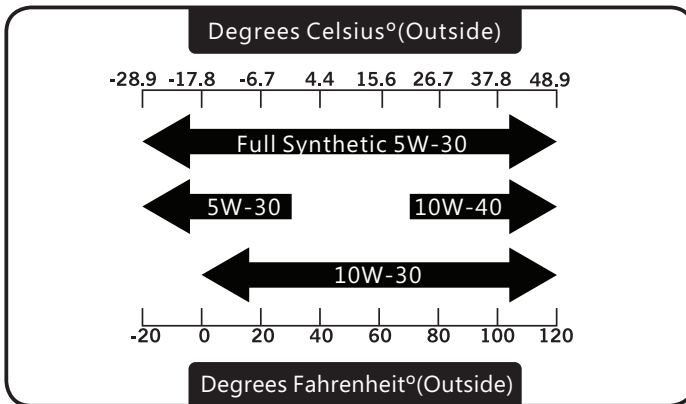


2, Oil and Gasoline / LPG/ NG

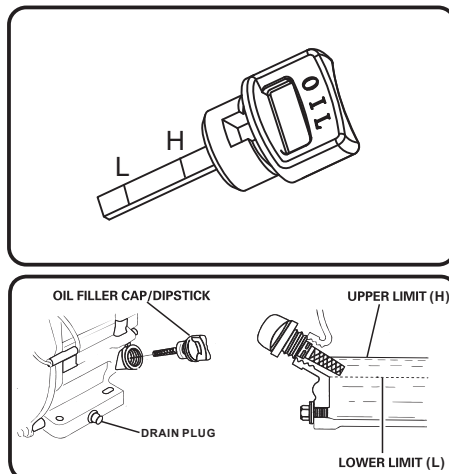
Add Engine Oil

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

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

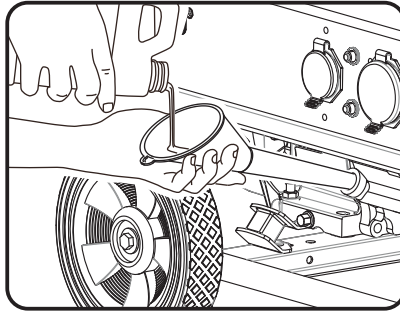


1. Place generator on a flat, level surface.
2. Clean area around oil fill and remove yellow oil fill cap/dipstick.
3. Wipe dipstick clean.



OPERATION

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



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

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

Low Oil Shutdown

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

Add Gasoline



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

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

Fuel must meet these requirements:

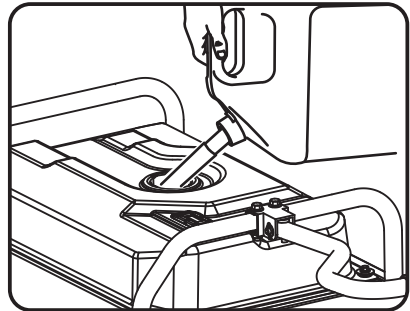
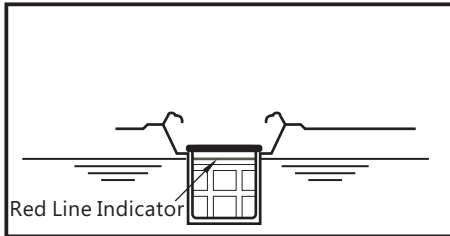
- Clean, fresh, unleaded gasoline with a minimum of 87 octane.
- For high altitude use, see Operation at High Altitude.
- Gasoline with no more than 10% ethanol is acceptable.

E10

E15

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

1. Clean area around fuel fill cap, remove cap.
2. Slowly add unleaded fuel to fuel tank. Be careful not to fill above the RED fuel level indicator. This allows adequate space for fuel expansion.



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

Operation at High Altitude

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

	439cc	Altitude
Altitude main jet 1	380717004	3000-6000Feet
Altitude main jet 2	380717005	6000-8000Feet

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

Operation at High Ambient conditions

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

OPERATION

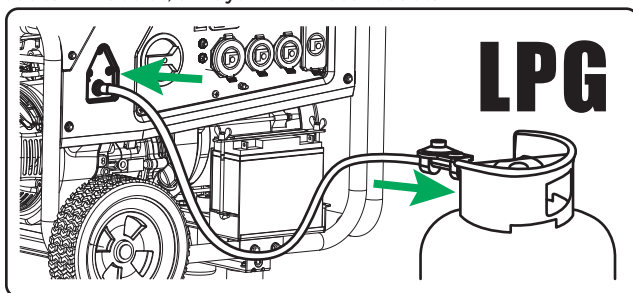
Connecting LPG/ NG Fuel



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

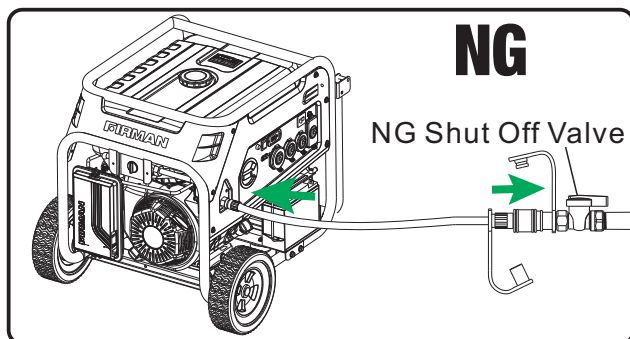
- The fuel supply line must always be shut off when the engine is not running. Failure to shut off fuel may allow fuel to leak at the generator.
- Do not place the LPG/NG sources in the path of muffler outlet or near any ignition source.
- Keep a fire extinguisher near the generator all the time.
- Do 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 20 ft (6 m) from any occupied spaces.

Indicator light - Battery Power Saving Mode

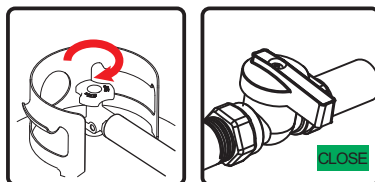
This generator is equipped with an electronic module which consumes battery power. When the main fuel selector switch is turned to the GAS or LPG/NG position, the indicator light will turn RED for up to 4 minutes (before going off). Starting the engine successfully anytime during the 4 minutes will turn the indicator light GREEN. 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.

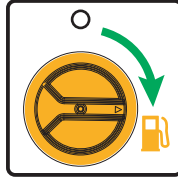
3.Starting the Generator on Gasoline

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 at least 20feet (6m) from any occupied spaces.
- 3.If connected make sure the LPG cylinder knob or the NG source valve are fully closed or disconnected.



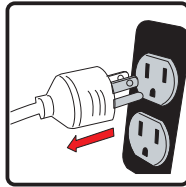
OPERATION

4. Turn the main fuel selector switch to "GAS" position.



NOTICE When the main fuel selector switch is turned to the GAS position, the indicator light will turn RED for up to 4 minutes (before going off). Starting the engine successfully anytime during the 4 minutes will turn the indicator light GREEN. See Indicator light-Battery Power Saving Mode section for more information.

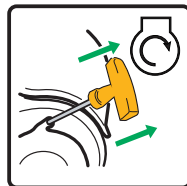
5. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in.



6. Move choke lever located on engine to "START" position. You do not need to choke a warm engine. (For electric start move to step (8))



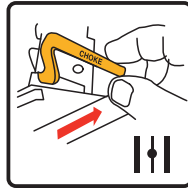
7. For recoil start only - Pull the starter cord slowly until resistance is felt and then pull rapidly to start engine.



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, slowly move the choke lever to the RUN position.

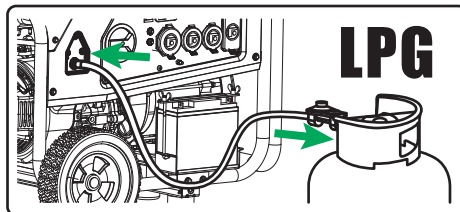


10. Allow portable generator to run at no load for a few minutes to stabilize before plugging in any electrical devices.

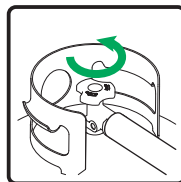
NOTICE If engine starts but fails to run, or if portable generator shuts down during operation, check oil level. See Low Oil Shutdown section for more information.

4. 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 at least 20 feet (6 m) from any occupied spaces.
3. Connect the LPG hose with regulator to both LPG cylinder and portable generator LPG/NG Hose Connector (inlet).

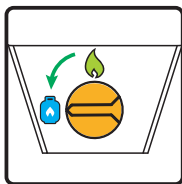


4. Fully open the LPG cylinder knob.

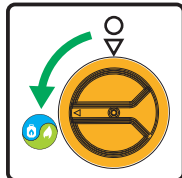


OPERATION

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



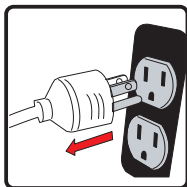
6. Turn the main fuel selector switch to LPG/NG position.



NOTICE When the main fuel selector switch is turned to the LPG/NG position, the indicator light will turn RED for up to 4 minutes (before going off). Starting the engine successfully anytime during the 4 minutes will turn the indicator light GREEN.

See Indicator light-Battery Power Saving Mode section for more information.

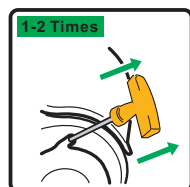
7. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in.



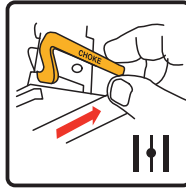
8. Move choke lever located on engine to "START" position.
(For electric start move to step (12))



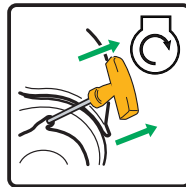
9. For recoil start only - PULL-TO-PRIME Pull the starter cord 1-2 times. Pull slowly until resistance is felt and then pull rapidly.



10. For recoil start only - Move the choke lever to the "RUN" position.



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

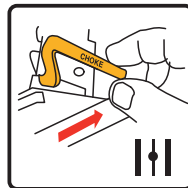


If the engine fails to start in 1-2 pulls with choke in the RUN position, move choke lever to START position and repeat the PULL-TO-PRIME step (9).

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 - Move the choke lever to the RUN position.



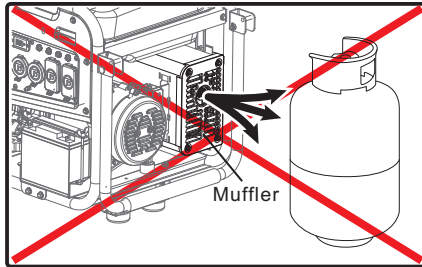
14. Allow portable generator to run at no load for a few minutes to stabilize before plugging in any electrical devices.

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

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:

OPERATION

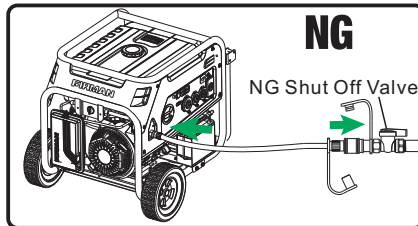
- Exchanging fuel cylinders to allow the first cylinder to warm up, repeating as necessary.
- Placing the LPG cylinder at the end of the generator near the handle, where engine fan air flows out from the generator. This air is slightly heated by air flowing over the engine. Do not place the LPG cylinder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



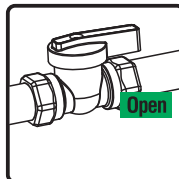
- The LPG cylinder and components can be temporarily warmed by pouring warm water over them.

5. Starting the Generator on NG

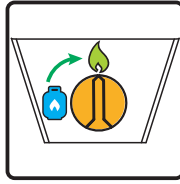
1. Before starting the generator, check for loose or missing parts and for any damage which may have occurred during shipment. Ensure spark plug, muffler, fuel cap, and air cleaner are all in place.
2. Move portable generator outdoors to safe operating location at least 20 feet (6 m) from any occupied spaces.
3. Connect the NG hose to both the NG source and portable generator LPG/NG Hose Connector (inlet).



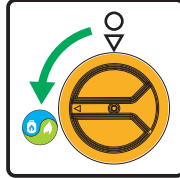
4. Fully open the NG source valve.



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

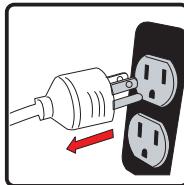


6. Turn the main fuel selector switch to LPG/NG position.



NOTICE When the main fuel selector switch is turned to the LPG/NG position, the indicator light will turn RED for up to 4 minutes (before going off). Starting the engine successfully anytime during the 4 minutes will turn the indicator light GREEN. See Indicator light-Battery Power Saving Mode section for more information.

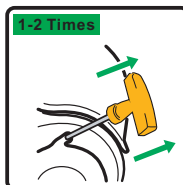
7. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in.



8. Move choke lever located on engine to "START" position.
(For electric start move to step (12))

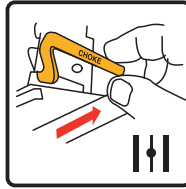


9. For recoil start only - PULL-TO-PRIME Pull the starter cord 1-2 times. Pull slowly until resistance is felt and then pull rapidly.

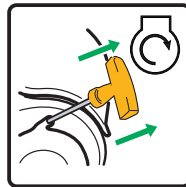


OPERATION

10. For recoil start only - Move the choke lever to the "RUN" position.



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

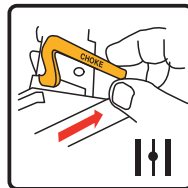


If the engine fails to start in 1-2 pulls with choke in the RUN position, move choke lever to START position and repeat the PULL-TO-PRIME step (9).

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 - Move the choke lever to the RUN position.



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

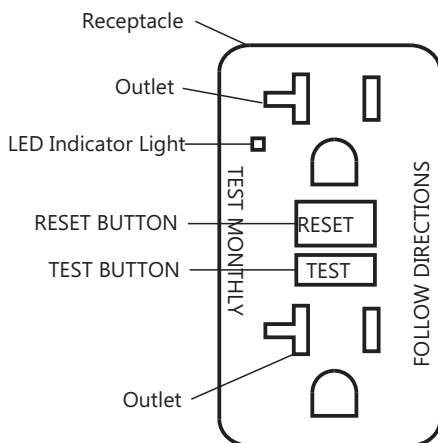
NOTICE If engine starts but fails to run, or if portable generator shuts down during operation, check oil level. See **Low Oil Shutdown** section for more information.

6. Connecting Electrical Loads

This portable generator has been pretested and adjusted to handle its full capacity. The voltage is regulated using an automatic voltage regulator (AVR). Readjusting the AVR will void warranty.

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.



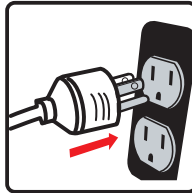
WARNING! Generator voltage could cause electrical shock or burn resulting in death or serious injury.

- 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.

OPERATION

- 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

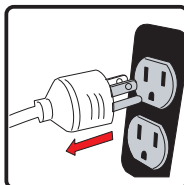
There is a remote chance that voltage fluctuations may impair the proper functioning of some sensitive electronic equipment. Electronic devices, including computers and many programmable appliances may use components that are designed to operate within a narrow voltage range and may be affected by the 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.

7. Stopping the generator

1. Turn off and remove all electrical loads.

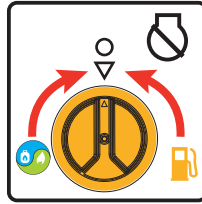
Never stop the generator with electrical devices plugged in and turned on.

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

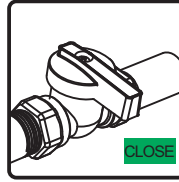
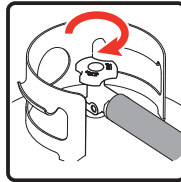


Let the generator run at no-load for one minute to stabilize internal temperatures of the engine and generator.

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



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



Maintenance - Storage

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 knowledgeable/experienced owner or by authorized service center.

General Recommendations

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

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

Some adjustments will need to be made periodically to properly maintain your generator.

All service and adjustments should be made at least once each season. Follow the requirements in the maintenance schedule chart above.

NOTICE Once a year you should clean or replace the spark plug and replace the air filter. New spark plugs 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 main fuel valve in OFF position.
Do not tip generator at an angle which causes fuel to spill.
Disconnect LPG/ NG fuel hose and securely stow away.

ENGINE MAINTENANCE

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

Change Engine Oil

Change engine oil every 100 hours. (for a new engine, change oil after 25 hours.)

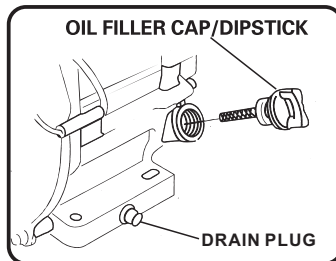
If you are using your generator under extremely dirty or dusty conditions, or in extremely hot weather change the oil more often.

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

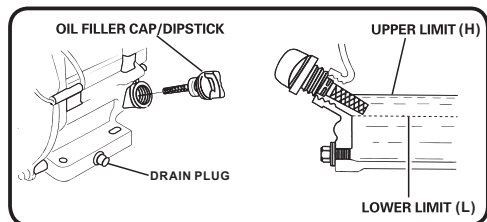
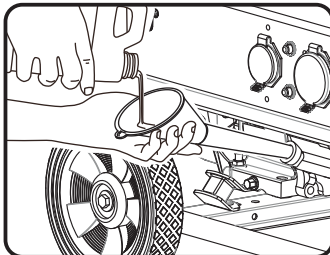


KEEP OUT OF REACH OF CHILDREN. DON'T POLLUTE. CONSERVE RESOURCES. RETURN USED OIL TO COLLECTION CENTERS.

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



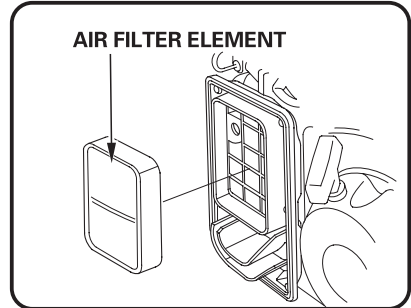
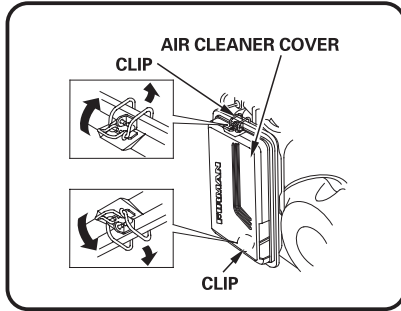
(b) Reinstall the drain plug and fill the engine with oil until it reaches the HIGH(H) level on the oil filler dipstick.



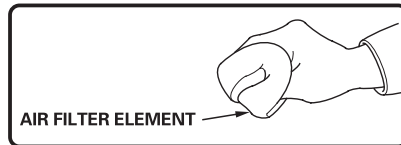
NOTICE We recommend using FIRMEN SAE 10W-30 API SL oil for best performance. Other high-quality detergent oils (API SL or higher) are acceptable. See *Oil and Gasoline / LPG/ NG*

Air Filter Maintenance

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



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



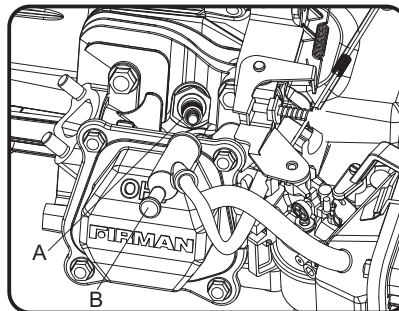
(c) Reinstall clean or new air filter element.

Spark Plug Maintenance

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

(a) Remove the spark plug boot.

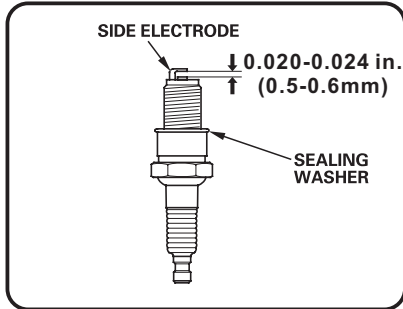
(b) Remove spark plug using provided wrench.



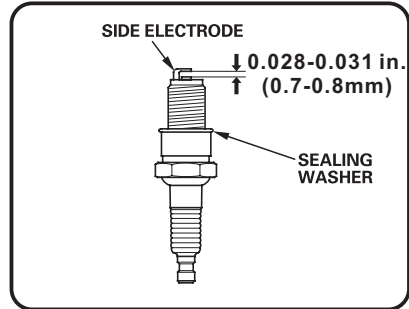
A- Spark plug

B- Spark plug boot

- (c) Inspect spark plug for damage and clean with a wire brush before reinstalling. Replace if damaged.
- (d-1) For spark plug FIRMAN P/N 330723001 - Adjust the electrode gap to 0.020 - 0.024 in. (0.5 - 0.6 mm).
- (d-2) For spark plug CHAMPION N9YC - Adjust the electrode gap to 0.028 - 0.031 in. (0.7 - 0.8 mm).
- (e) Seat spark plug in position and thread by hand to prevent cross threading.
- (f) Tighten plug with provided wrench and put the spark plug boot back on spark plug.



SPARK PLUG: FIRMAN P/N 330723001



SPARK PLUG: CHAMPION N9YC

SPARK PLUG: FIRMAN P/N 330723001 or CHAMPION N9YC

Maintenance Valve Clearance

Intake: 0.005 - 0.007 in. (0.13 - 0.17 mm)

Exhaust: 0.007 - 0.009 in. (0.18 - 0.22 mm)

Muffler and Spark Arrester



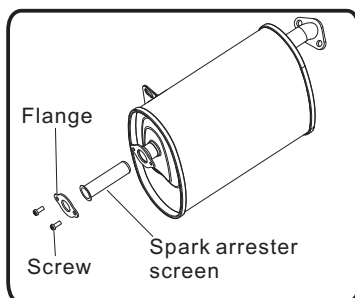
WARNING! Contact with muffler area could cause burns resulting in serious injury.

- 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.

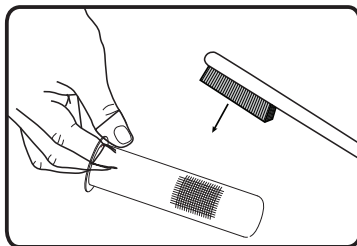
Maintenance - Storage

Inspect Muffler and Spark Arrester

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



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



4. Replace the spark arrester if it is damaged. If replacement parts are required, make sure to use only FIRMEN original equipment replacement parts.
5. Position the spark arrester in the muffler and attach 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.

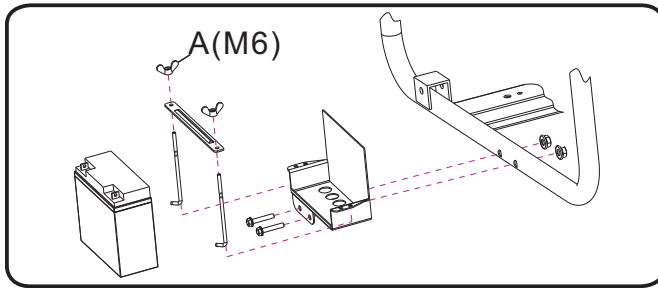
Make certain that the portable generator is kept clean and dry.

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. Remove the spark plug boot from spark plug.
2. Remove the nut and bolt from the negative(-) post first, then the positive(+) post.
3. Loosen and remove the wing nuts (A) on the battery holding bracket.
4. Remove the battery and recycle.
5. Install the new battery with the following specification:
12V sealed lead acid 15AH
LXWXH: 7.09X2.95X6.5inch(180X75X165mm)
6. Connect the red positive (+) battery cable to the battery first.
7. Connect the black negative (-) battery cable to the battery second.
8. Cover the posts with boots provided.
9. Install the spark plug boot onto spark plug.

Battery Charging

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, it can be started manually only in the GAS position by pulling the engine recoil cord. If the battery voltage is extremely low, the charging circuit may not be able to re-charge the battery. In this case, the battery must be connected to a standard automotive style battery charger for re-charging before it can be used.

Maintenance - Storage

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. Alcohol-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.

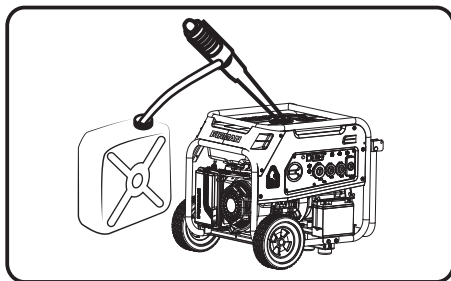
When the generator set is being stored for more than one month, follow these instructions to avoid engine problems:



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 main fuel selector switch to GAS 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 main fuel selector switch 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. Reinstall the spark plug and attach the spark plug boot. Pull recoil slowly until resistance is felt. This will close the valves so no moisture enters the engine cylinder.

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.

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

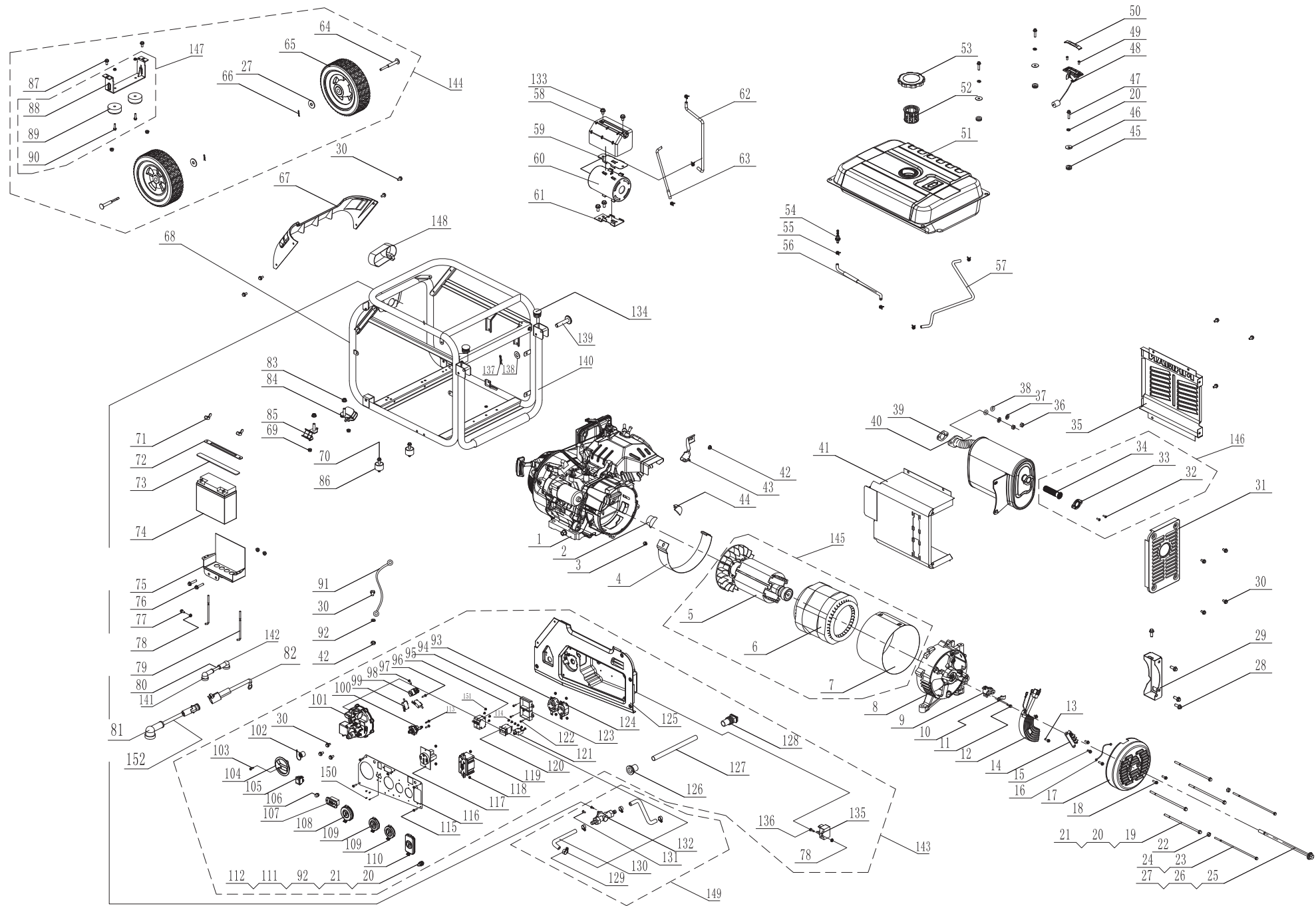
Troubleshooting - Specifications

SPECIFICATIONS

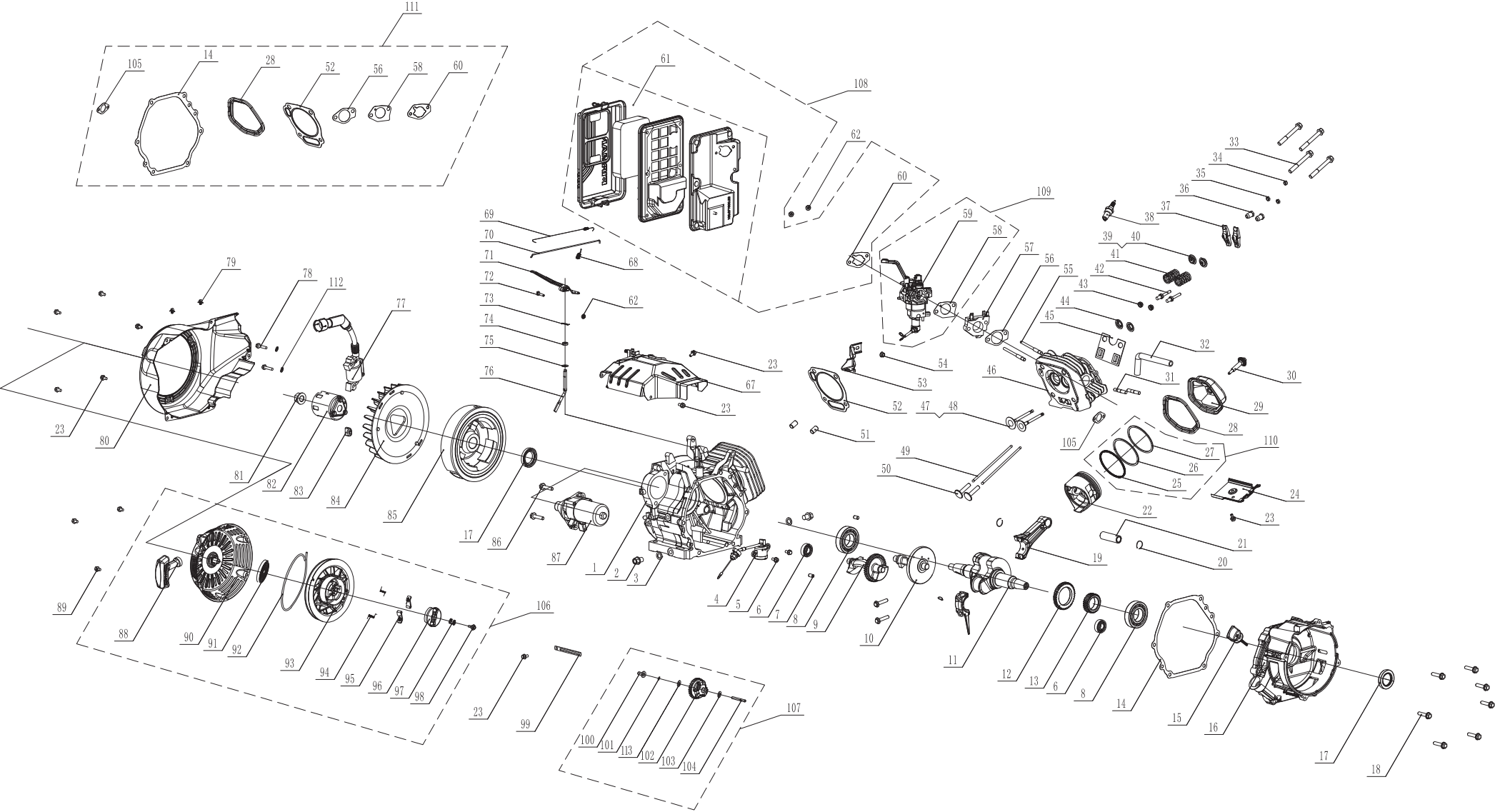
Model	T07571		
Starting Watts	9400(GASOLINE)/8450(LPG)/6900(NG)		
Running Watts*	7500(GASOLINE)/6750(LPG)/5500(NG)		
Rated AC Voltage	120/240V		
Rated Frequency	60Hz		
Phase	Single		
Voltage Regulator	AVR		
Power Factor	1		
Alternator Type	Brushed		
Engine	FIRMAN		
Engine Type	Single Cylinder, 4-Stroke OHV Air Cooled		
Displacement	439cc		
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	8.0 U.S. Gallons (30.3L)		
Lubricating Oil Capacity	37.2 oz (1.1L)		
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
	72ft ³ /hr(2m ³ /hr) 72,000 BTU/h (21,101 W)	86ft ³ /hr(2.4m ³ /hr) 86,000 BTU/h (25,204 W)	101ft ³ /hr(2.9m ³ /hr) 101,000 BTU/h (29,593 W)
LPG fuel consumption	15.6ft ³ /hr(1.6L/hr) 39,000 BTU/h (11,429 W)	31ft ³ /hr(3.2L/hr) 77,500 BTU/h (22,713 W)	50.8ft ³ /hr(5.3L/hr) 127,000 BTU/h (37,211 W)

*Generator certified in accordance with CSA (Canadian Standards Association) standard C22.2 No. 100-14, Motors and Generators.

PARTS DIAGRAM AND PART LIST
T07571 PARTS DIAGRAM



439cc TRI-FUEL ENGINE PARTS DIAGRAM



Parts Diagrams - Parts Lists - Wiring Diagram

T07571 Portable Generator

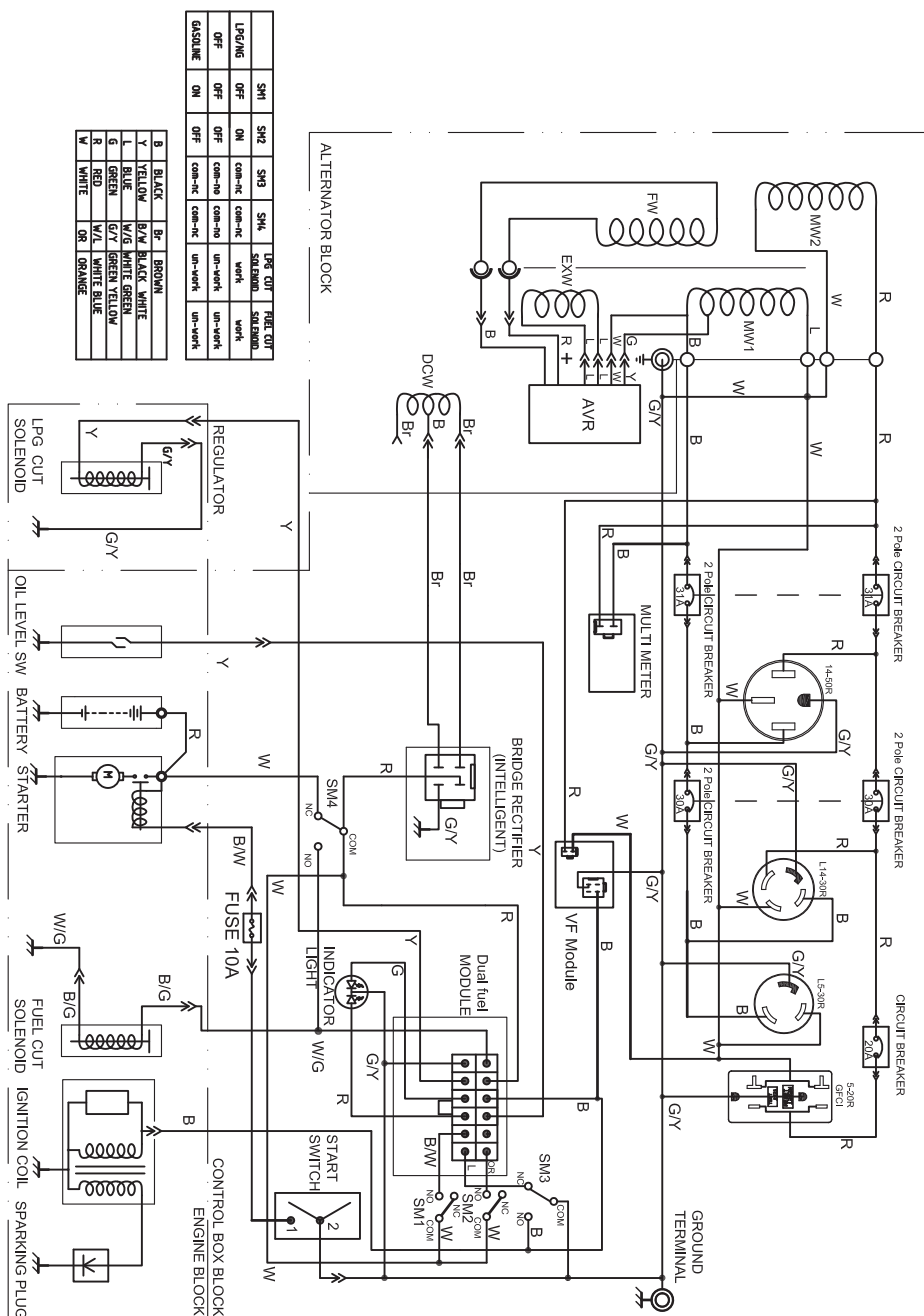
NO.	Part Number	Description	Qty.	NO.	Part Number	Description	Qty.
1	380713556	FIRMAN 439cc Tri-fuel Engine	1	75	357713554	Battery Holder	1
2	357713501	Rubber Cap B	1	76	357713593	Flange, Bolt M8x45	2
3	336713528	Flange Bolt M6x8	1	77	357713569	Screw&washer Assy M5x10	2
4	357713573	Generator Wind Shield	1	78	336713578	Nut M5	3
5	380713544	Rotor Assy	1	79	357713555	Bolt, bend Hook	2
6	380713545	Stator Assy	1	80	357713556	Battery Red Cable +	1
7	380713557	Stator Cover	1	81	336713842	Black Boot	1
8	357713506	Generator End Cover	1	82	336713693	Battery cable(Female 180mm)	1
9	357713507	Carbon Brush Assembly	1	83	357713531	Nut M10	2
10	336713525	Carbon Brush Holder	1	84	357713532	Isolator 2	1
11	336713524	Bolt & washer Assemblies	1	85	357713533	Isolator 1	1
12	380713504	AVR	1	86	357713585	Motor Mount	2
13	336713519	Flange Bolt M5x16	2	87	336713559	Flange, Bolt M8x16	4
14	336713523	Terminal Block	1	88	357713538	Support Leg	1
15	336713520	Bolt M5x16	2	89	336713557	Rubber, Support	2
16	336713522	Ground Wire	1	90	336713561	Flange Bolt M6x25	4
17	357713509	Generator End Cover Cap	1	91	336713514	Ground Wire	1
18	336713507	Flange Bolt M5x12	3	92	336713516	External Star Washer Ø6	1
19	380713506	Flange Bolt M6x200	4	93	336713601	Receptacle L14-30R	1
20	336713512	Lock Washer Ø6	8	94	336713817	Control Module	1
21	336713513	Washer Ø6	4	95	357513001	Double Pole Circuit Breaker Amp 31A	1
22	336713577	Nut M5	2	96	336713819	Tapping Screw St2.9x19	2
23	380713507	Side Cover Bolt M5x229	2	97	336713820	Tapping Screw St2.9x32	1
24	357713511	Lock Washer Ø5	2	98	336713821	Micro Switch 1	1
25	380713508	Flange Bolt M10x285	1	99	336713822	Micro Switch 2	2
26	357713513	Lock Washer Ø10	1	100	336713824	Fuel Valve	1
27	357713514	Washer Ø10	5	101	375413002	Main Regulator Assy.	1
28	336713531	Flange Bolt M8x20	1	102	336713826	LPG Inlet Cover	1
29	357713515	Holder, Muff	1	103	336713816	Screw M4x12	1
30	336713515	Flange Bolt M6x12	19	104	336713815	Main Fuel Selector Switch	1
31	357713516	Muffler Fixed Plate A	1	105	336713827	Electric Start Switch	1
32	336713538	Screw&washer Assy M5x14	2	106	336713828	Indicator Light	1
33	357713517	Holder, Spark Arrestor	1	107	357713586	Multi Meter	1
34	336713536	Arrestor, Spark	1	108	336713574	Outlet Cover TT-30R/14-50R	1
35	357713518	Muffler Fixed Plate B	1	109	336713573	Outlet Cover L5-30R	2
36	336713534	Nut M8	2	110	357713541	Outlet Cover 5-20R GFCI	1
37	336713509	Lock Washer Ø8	2	111	380713512	Bolt M6x22	1
38	336713533	Flat Washer Ø8	2	112	380713515	Nut M6	2
39	357713520	Gskt., Ext.	1	113	380713001	Screw&Washer Assy M4x20	2
40	375413004	Muff., Assy.	1	114	336713569	Screw&washer Assy M4x8	10
41	357713523	Muffler Fixed Plate C	1	115	330713882	Screw&washer Assy M4x14	6
42	336713517	Nut M6	4	116	380713552	Control Panel	1
43	357713577	Air Filter Bracket	1	117	380713518	Receptacle 14-50R	1
44	357713524	Rubber Cap A	1	118	336713568	Nut M4	8
45	336713542	Grommet, Fuel Tank	4	119	357713588	5-20R Duplex GFCI	1
46	336713543	Washer Tank Buffer	4	120	336713526	Double Pole Circuit Breaker Amp 30A	1
47	336713544	Flange Bolt M6x20	4	121	336713585	Circuit Breaker Amp 20A	1
48	357713578	Fuel Gauge Assy.	1	122	336713565	Screw M5x14	4
49	336713546	Screw M5x10	2	123	336713818	Charger	1
50	336713547	Fuel Gauge Display	1	124	336713583	Receptacle L5-30R	1
51	380713553	Fuel Tank Assy.	1	125	380713555	Control Box	1
52	336713548	Fuel Filter, Wire Mesh	1	126	357713545	Grommet	1
53	336713549	Fuel Cap	1	127	357713546	Sleeve	1
54	336713807	Tank Fitting With Filter	1	128	357713548	Grommet	1
55	336713540	Clamp Ø8x6	7	129	380713547	Metal Clamp	4
56	357713580	Hose, Fuel 1	1	130	357523001	NG Hose	2
57	357713581	Hose, Fuel 2	1	131	380713002	Screw&washer Assy M5x10	2
58	336713636	Carbon Canister Shield	1	132	380713550	LPG/NG Selector Switch	1
59	336713639	Carbon Canister Bracket	1	133	380713003	Flange Bolt M6x6	2
60	336713637	Carbon Canister	1	134	357713598	Waterproof Cover	2
61	336713638	Carbon Canister Holder	1	135	336713643	VF Protection Module	1
62	380713532	Vapor Hose 1	1	136	330713502	Screw M5x20	1
63	380713533	Vapor Hose 2	1	137	336713590	Cotter Pin, Handle	2
64	357713535	Axle Pin	2	138	336713844	Washer Ø8	2
65	357713592	Wheel	2	139	357713596	Axle Pin, Handle	2
66	357713536	Cotter Pin	2	140	357713597	Handle	1
67	380713554	Plastic Front Cover	1	141	336713841	Red Boot	1
68	380713546	Frame	1	142	336713611	Boot, starter	1
69	336713558	Nut M8	8	143	375413001	Control Panel Assy.	1
70	357713584	Flange Bolt M8x35	2	144	357413509	Wheel Kit	1
71	357713550	Wing Nut M6	2	145	380413510	Rotor And Stator Set	1
72	357713551	Battery Pressing Bracket	1	146	357413503	Spark Arrestor Kit	1
73	357713552	Rubber Pad	1	147	357413506	Support Leg Assembly	1
74	357713553	Battery	1	148	336713691	Hose Holder	1
				149	380413512	LPG-NG Selector switch assembly	1
				150	380713542	Screw&washer Assy M3x6	4
				151	380713562	Screw&washer Assy M5x8	4
				152	357713607	Battery cable(Male 180mm)	1

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NO.	Part Number	Description	Qty.
1	380723518	Crankcase Comp.	1
2	357723501	Bolt,drain	2
3	357723502	Washer,drain Bolt	2
4	357723503	Oil Level Sensor	1
5	357723504	Fig. Bolt M6×15	2
6	357723505	Bearing	2
7	316713518	Locating Pins	2
8	357723506	Bearing	2
9	357723507	Balance Shaft	1
10	357723508	Camshaft Comp	1
11	380723501	Crankshaft	1
12	357723510	Gear,Crank Shaft	1
13	357723511	Gear,Drive	1
14	357723512	Gskt.,Crankcase Cover	1
15	357723513	Oil Dipstick Assy	1
16	357723514	Cover,Crankcase	1
17	357723515	Oil Seal	2
18	357723516	Flange Bolt M8×40	7
19	357723517	Conn., Rod Comp	1
20	357723518	Piston Pin Retainer Ring	2
21	357723519	Wrist Pin	1
22	380723502	Piston	1
23	336723503	Flange. Bolt M6×12	8
24	357723521	Air Guide Lower	1
25	380723503	Ring, Oil	1
26	380723504	Ring, Second Piston	1
27	380723505	Ring, First Piston	1
28	357723525	Gasket, Valve Cover	1
29	357723526	Valve Cover Assy	1
30	357723527	Bolt	1
31	357723528	Exhaust Valves Stud Bolt	2
32	357723529	Breather Tube	1
33	357723530	Fig. Bolt M10×80	4
34	357723531	Rotator, Exhaust Valve	1
35	336723528	Locknut	2
36	336723529	Adjusting Nut, Valve	2
37	357723532	Valve Rocker	2
38	330723001	Spark Plug	1
39	357723533	Retainer, Intake Valve	1
40	357723534	Retainer, Exhaust Valve	1
41	375717005	Spring,Valve	2
42	336723537	Bolt, Rocker Arm	2
43	357723536	Oil Seal, Valve	2
44	357723537	Retainer, Valve	2
45	357723538	Guide Plate, Push Rod	1
46	375717007	Cylinder Head	1
47	380723507	Valve,Intake	1
48	380723508	Valve, Exhaust	1
49	357723542	Push Rod	2
50	357723543	Lifter, Valve	2
51	357723544	Locating Pins	2
52	375717006	Gasket,cyl.head	1
53	357723546	Air Cleaner Holder	1
54	357723547	Nut M6	1
55	357723548	Air Intake Stud Bolt	2
56	357723549	Gskt.,Insulator	1
57	357723550	Insulator, Carburetor	1
58	357723551	Gskt., Carburetor	1

[illegible]

English



Service - Warranty

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

HOW TO ORDER REPLACEMENT PARTS

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

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

FIRMAN 90 DAY 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 90 days (parts and labor) from the original date of purchase. 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 MERCHANTABILITY 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.

Service - Warranty

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 2021-2022 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	4. Air induction system including: - Intake pipe/manifold - Air cleaner
2. Fuel metering system: - Fuel tank - Fuel cap - Fuel lines (for liquid fuel and fuel vapors) and related fittings/clamps - Fuel regulator, carburetor and internal parts.	5. Crankcase breather assembly including: - Breather connection tube
3. Catalytic muffler assembly including: - Exhaust manifold - Catalytic converter - Muffler gasket -pulse valve	6. Fuel tank evaporative emission control system including: - Purge valves - Carbon canister - Vapor hoses and fitting/clamps

Limitations

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

- (a) Consequential damages such as loss of time, inconvenience, loss of use of the engine or equipment, etc.
- (b) Diagnosis and inspection fees that do not result in eligible warranty service being performed.

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