

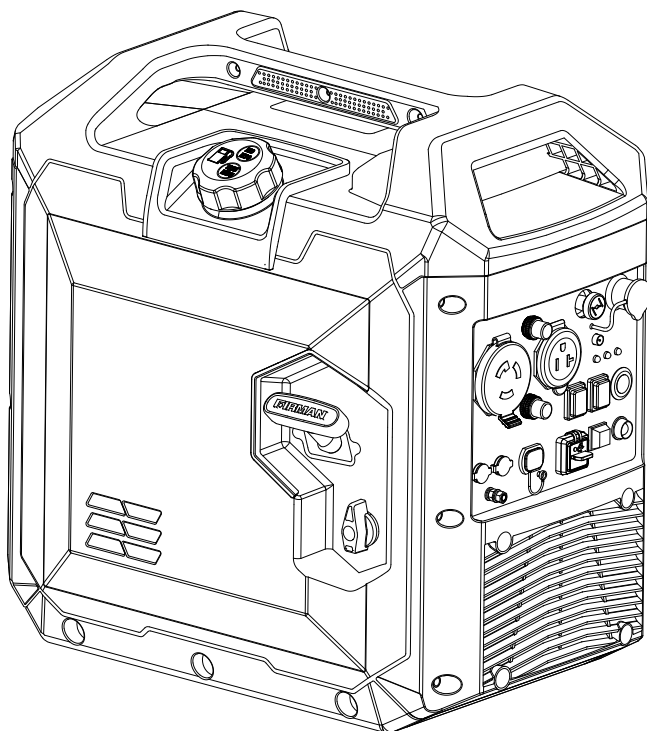
FIRMAN®

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MODEL #WT03571

TRI-FUEL INVERTER GENERATOR

ATTACH YOUR RECEIPT



Serial Number _____

Purchase Date _____

IMPORTANT, RETAIN FOR FUTURE REFERENCE: READ CAREFULLY

Thank you for purchasing this **FIRMAN** product.

Questions, problems or missing parts?

Before returning, contact us on:

844-347-6261, 8 a.m. - 8 p.m., EST, Monday - Sunday or
at www.firmanpowerequipment.com.

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FCC DECLARATION

Supplier’s Declaration of Conformity
47 CFR § 2.1077 Compliance Information
FIRMAN WT03571 TRI FUEL INVERTER GENERATOR

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 WT03571 inverter generator has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

INTRODUCTION

Thank you for purchasing a FIRMAN generator. You have selected a high-quality, precision engine 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 anytime without prior notice.

REGISTER YOUR PRODUCT

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



INTRODUCTION

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.
 Hot Surface- Muffler could cause burns resulting in serious injury.	 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.	 Toxic Fumes- Engine exhaust contains carbon monoxide, a poisonous gas that will kill you in minutes. You cannot smell it or see it.

INTRODUCTION



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

This outdoor generator can be used to power outdoor items using extension cords.

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

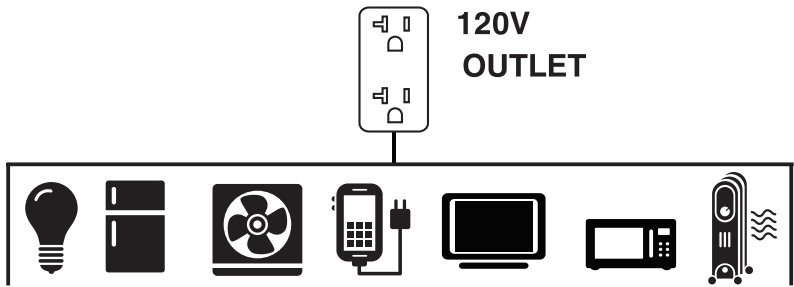
System Ground

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

Compliance Requirements

There may be Federal or State regulations, local codes, or ordinances that apply to the intended use of the generator. Consult a qualified electrician, electrical inspector, or the local agency having jurisdiction. This generator is not intended to be used at a construction site or similar activity as defined by NFPA 70-2023 (NEC) section 590.6.

To Restore Power Using Extension Cords



INTRODUCTION

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 (15.24m)
Up to 13A	16
Up to 15A	14
Up to 20A	12
Up to 30A	10

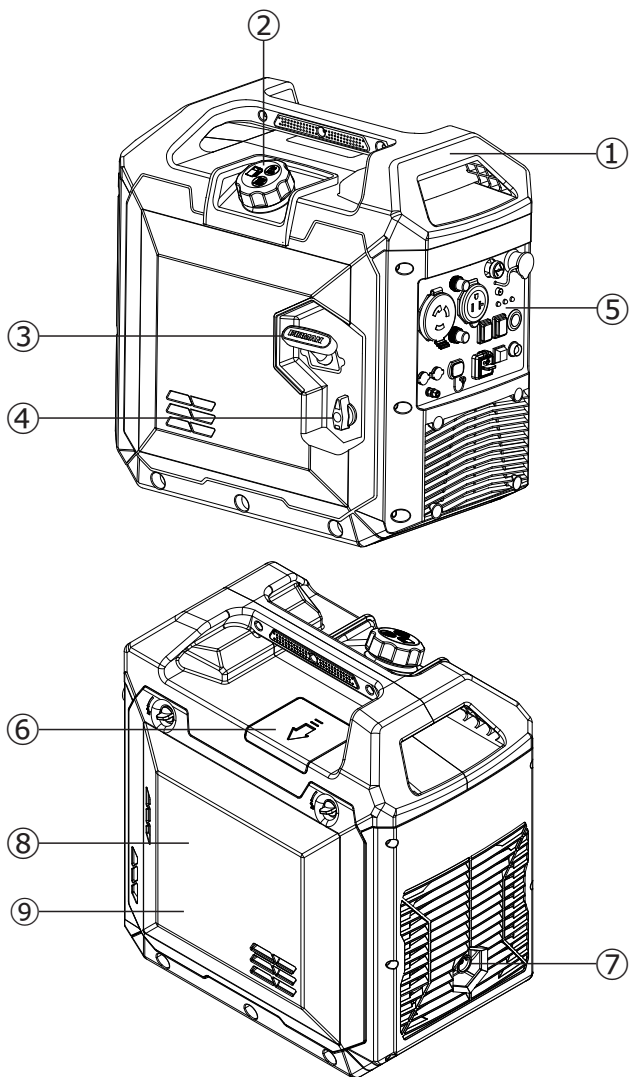
2. Follow cord safety instructions.
3. Install carbon monoxide alarm(s).
4. When operating portable generator with extension cords, make sure portable generator is located in an open, outdoor area, at least 20 ft downwind from occupied spaces with exhaust pointed away.
5. Extension cords running directly 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.

FEATURES, CONTROLS AND ON-PRODUCT HAZARD LABELS

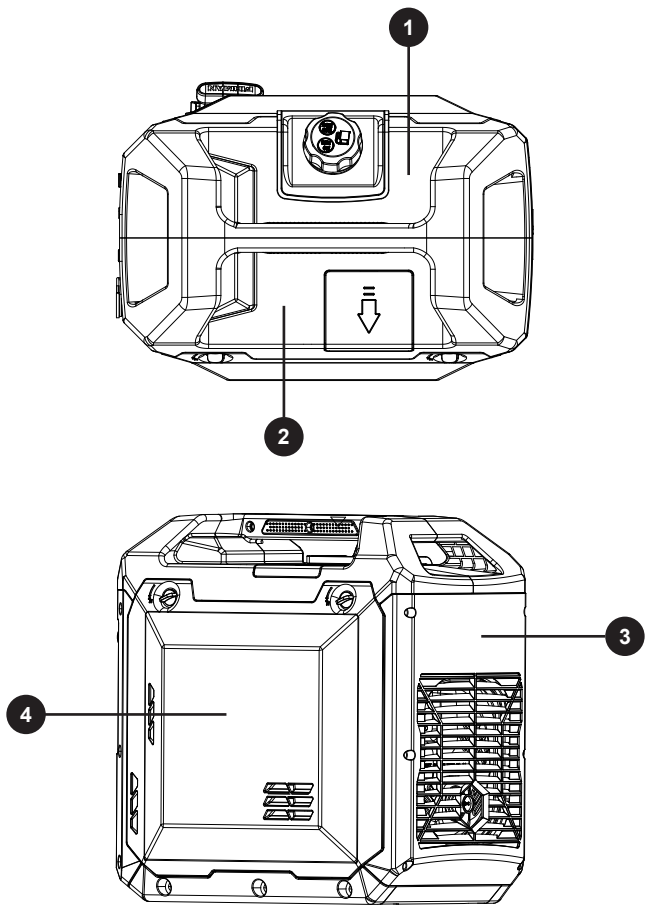


- 1- Fixed Carrying Handle
- 2- Fuel Cap
- 3- Recoil Starter
- 4- Fuel Select Switch
- 5- Control Panel
- 6- Spark Plug Maintenance Cover
- 7- Muffler/Spark Arrester
- 8- Maintenance Cover
- 9- Data Decal / Serial Number

*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

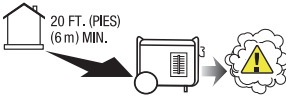
FREE WARNING LABEL REPLACEMENT. If hazard labels become illegible or are missing, contact FIRMAN customer service for a free replacement.



1

! 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 CUESTION DE MINUTOS. Los gases del generador contienen monóxido de carbono, el cual es una sustancia venenosa que no puede verse ni olerse.	
		No utilice NUNCA el generador en el interior de su hogar ni en un garaje, NI Siquiera con las puertas y ventanas abiertas.	
NEVER use inside a home or garage, EVEN IF doors and windows are open.		Utilice sólo AL AIRE LIBRE y lejos de ventanas, puertas y orificios de ventilación.	
Only use OUTSIDE and far away from windows, doors, and vents.		! Utiliser un générateur à l'intérieur PEUT VOUS TUER EN QUELQUES MINUTES. Les gaz d'échappement du générateur contiennent du monoxyde de carbone. Ceci est un poison que vous ne pouvez ni voir ni sentir.	
		NE JAMAIS utiliser dans un garage ou à l'intérieur, MÊME avec les portes et les fenêtres ouvertes.	
		À n'utiliser qu'à L'EXTÉRIEUR et à distance de toutes fenêtres, portes et ouvertures.	

2

 AUTOMATIC SHUTOFF- YOU MUST:	 CORTE AUTOMÁTICO-DEBE REALIZAR LO SIGUIENTE:	 ARRÊT AUTOMATIQUE- VOUS DEVEZ:
 20 FT. (PIES) (6 m) MIN. 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.	TRASLADÉ EL GENERADOR A UNA ZONA EXTERIOR ABIERTA A FAVOR DEL VIENTO Y ALEJE EL TUBO DE ESCAPE DE LAS VIVIENDAS. NO UTILICE EL GENERADOR EN ÁREAS CERRADAS (POR EJEMPLO, NO EN LA CASA O EL GARAJE). VENTILE LAS INSTALACIONES (ABRA LAS VENTANAS Y LAS PUERTAS) ANTES DE VOLVER A OCUPAR LA PROPIEDAD.	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 RÉOCCUPÉ 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.

FEATURES, CONTROLS AND ON-PRODUCT HAZARD LABELS

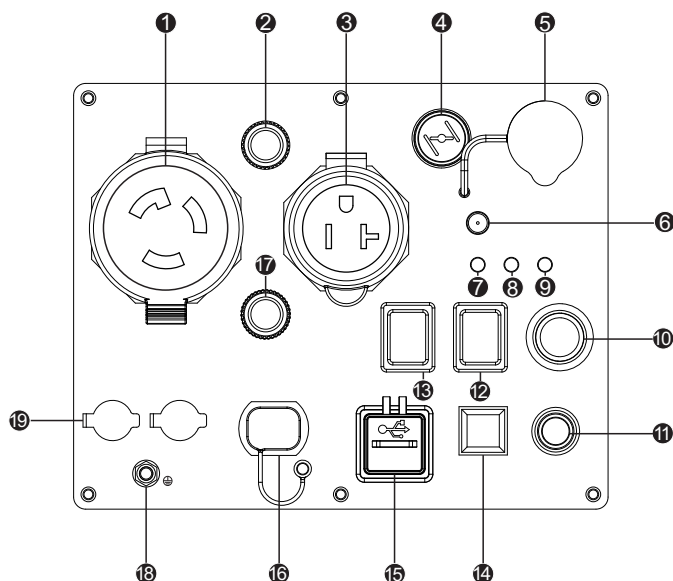
3

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

4

	Failure to follow warnings, instructions and operator's manual will result in death or serious injury.	El incumplimiento de las advertencias, las instrucciones y el manual del operador provocará la muerte o lesiones graves.	Le non-respect des avertissements, des instructions et du manuel de l'opérateur entraînera la mort ou des blessures graves.
	Tampering with the CO ALERT system will cause Carbon Monoxide poisoning. Install Carbon Monoxide alarms inside home.	La alteración del sistema de alerta de CO causará envenenamiento por monóxido de carbono. Instale detectores de Monóxido de Carbono dentro de su casa.	Toute altération du système d'ALERTE du monoxyde de carbone causera un empoisonnement au monoxyde de carbone. Installez des détecteurs de monoxyde de carbone à l'intérieur de la maison.
	Generator could cause electrical shock. • Do not run indoors to avoid wet conditions. • Do not run in rain or wet weather.	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.	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.
	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 combustible ou de toute structure, y compris au-dessus.
	⚠ 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.
	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.
	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 !
	NOTICE Operate, store and transport on firm level surface. • Tilting can cause fuel spillage.	AVISO Operar, almacenar y transportar en una superficie firme y nivelada. • Inclinarlo puede causar un derrame de combustible.	AVIS Faire fonctionner, entreposer et transporter sur une surface ferme et horizontale. • L'inclinaison peut causer un déversement de carburant.
	15, 24, 42 (450ml) Add lubricant to full mark to start. Engine will not start or will shut off if sensor detects low lubricant.	Añada lubricante hasta la marca de lleno para arrancar. El motor no arranca o se apaga si sensor detecta el nivel de lubricante de baja.	Pour commencer, ajoutez du lubrifiant jusqu'à la marque. Le moteur ne démarre pas ou s'arrêtera si le capteur détecte un manque de lubrifiant.
	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.P63Warnings.ca.gov .	⚠ ADVERTENCIA: Este producto y el escape del motor de este producto pueden exponerle a productos químicos, incluido CO, que en el estado de California son conocidos por causar cáncer o causar defectos de nacimiento o otros daños reproductivos. Para obtener más información, vaya a www.P63Warnings.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 en l'état de Californie pour causer le cancer ou causer des malformations congénitales et d'autres problèmes de reproduction. Pour plus d'informations, visitez www.P63Warnings.ca.gov .

Control Panel



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

1. 120V, 30A – NEMA L5-30R (not GFCI protected)

A maximum of 27.5 Amps can be drawn from this receptacle.

2. AC 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 within the portable generator data decal rating.

3. 120V, 20A Receptacle - NEMA 5-20R (Not GFCI protected)

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

4. Choke Button – Used to start a cold engine.

5. LPG/NG Hose Connect Inlet – Used to connect LPG/NG hose to generator.

6. LPG/NG Regulator Solenoid Port

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

FEATURES, CONTROLS AND ON-PRODUCT HAZARD LABELS

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

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

10. Start Button

11. **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.

12. **Engine Start/Stop Switch** – Before starting the engine, turn the switch to the "ON(I)" position. When you turn the switch to the "OFF(O)" position, the engine will stop.

13. **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.

14. **AC Reset Button** - When the inverter is protected, the output can be restored using this button.

15. USB-A Output Port and USB-C Output Port

16. **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.

17. **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.

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

19. **Parallel Operation Outlets** – These outlets are used for connecting inverter generators for parallel operation. For more information see PARALLEL OPERATION section.

1 LOCATION

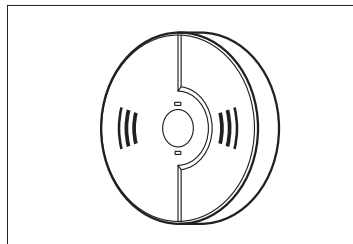


DANGER! Engine exhaust contains carbon monoxide, a poisonous gas that could kill you in minutes. You **CANNOT** smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

- Operate portable generator only outdoors, at least 20 ft downwind 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.

A. Carbon Monoxide Alarm(s)

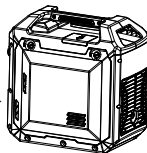
Install carbon monoxide alarms inside your home. Without working carbon monoxide alarms, you will not realize you are getting sick and dying from carbon monoxide poisoning.



Prevent Carbon Monoxide (CO) Poisoning

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

20 ft min.



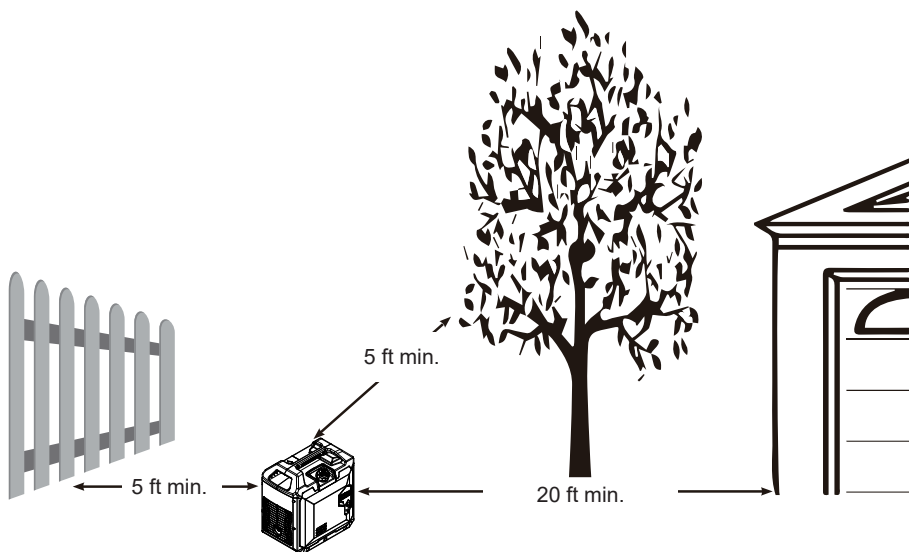
To better educate yourself about all carbon monoxide risks, go to www.takeyourgeneratoroutside.com.

B. Reduce Risk of Fire

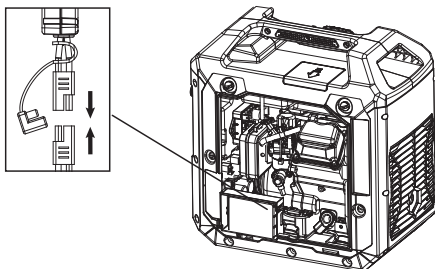


WARNING! Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death or serious injury.

- Keep portable generator at least 5 ft from any structure, trees or vegetation over 12 in 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.



Connect the Battery



NOTICE Be sure to connect the battery before attempting to start the generator.

2 OIL AND GASOLINE

2A. Add Engine Oil

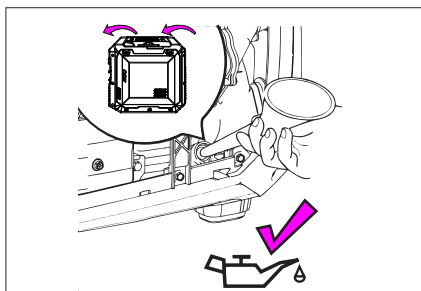
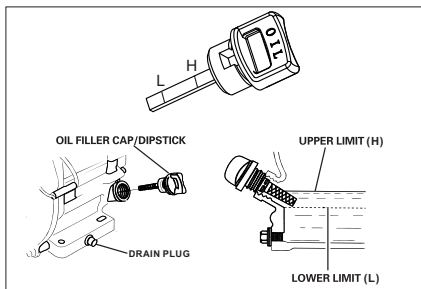
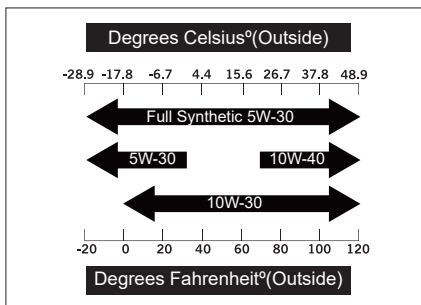
We recommend using SAE 10W-30 API SL or higher oil for best performance. Do not use special additives. Ambient temperature determines the proper oil viscosity for the engine. Use the chart to select the proper oil for the outdoor temperature range expected.

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. Open the maintenance cover latches and remove the maintenance cover.
3. Clean area around oil fill and remove yellow oil fill cap/dipstick.
4. Wipe dipstick clean.

NOTICE Do not screw in cap/dipstick when checking oil level.

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 latches.
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.

OPERATING INSTRUCTIONS

2B. Add Gasoline



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

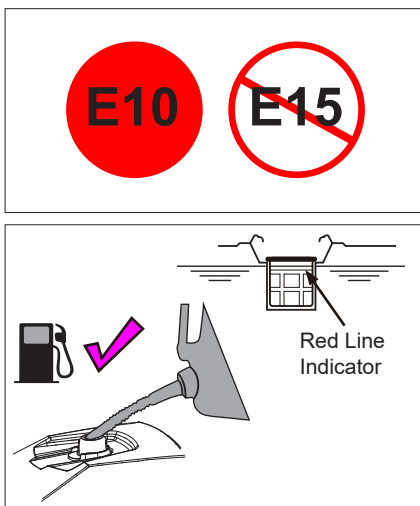
- Turn generator engine OFF and let it cool at least 2 minutes before removing fuel cap.
- Do Not refuel or move generator when engine is running.
- Move generator outdoors prior to adding or draining fuel
- Keep fuel away from any ignition sources.
- Do not overfill tank, allow space for fuel expansion.
- 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.
- 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 ft, a minimum 85 octane gasoline is acceptable.

Engine power and generator output will be reduced approximately 3.5% for every 1000 ft 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.

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.

	145 cc	Altitude
Altitude main jet 1	333713044	3000-6000 ft
Altitude main jet 2	333713045	6000-8000 ft

OPERATING INSTRUCTIONS

Operation at High Ambient conditions

Your FIRMAN Power Equipment product is designed and rated for continuous operation at ambient temperatures up to 104°F. The generator may be operated at temperatures ranging from 5°F to 122°F 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 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.

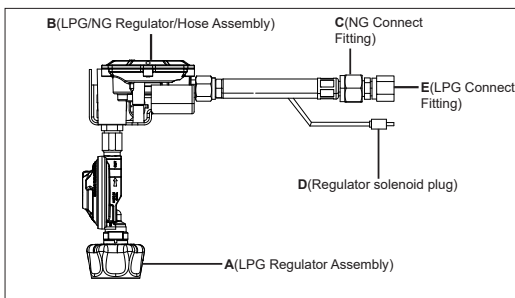
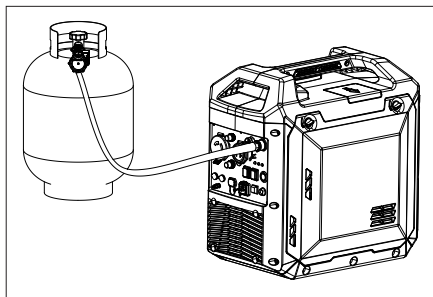
- The fuel supply line must always be shut off when the engine is not running. Failure to shut off fuel may allow fuel to leak at the generator.
- Do not place the LPG/NG sources in the path of muffler outlet or near any ignition source.
- Keep a fire extinguisher near the generator all the time.
- Do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

Connecting LPG Fuel

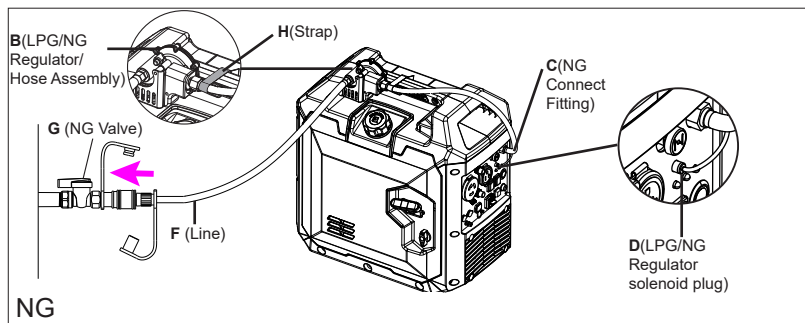
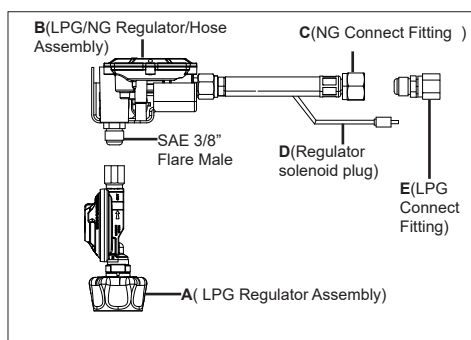
- Always keep the LPG cylinder in an upright position.
 - Use only DOT, or equivalent, LPG cylinders in vapor service with type 1, right hand ACME threads. Verify the re-qualification date on the cylinder has not expired.
 - All new cylinders must be purged of air and moisture prior to filling. The purging process should be done by your propane gas supplier.
1. Connect the primary LPG Regulator A and the LPG/NG Regulator/Hose Assembly B. Ensure reliable connection and no leakage.
 2. Remove the cap/plug and attach the LPG connect fitting E to the connect inlet located on the control panel.
 3. Connect the regulator solenoid plug D to the regulator solenoid port located on the control panel.
 4. Remove the safety cap/plug from the cylinder valve and attach the LPG regulator assembly to the LPG cylinder.

OPERATING INSTRUCTIONS



Connecting NG Fuel

1. Loosen and remove the primary LPG Regulator A and LPG connect fitting E.
2. Secure the LPG/NG pressure regulator to the handle using the built-in strap H on the regulator.
3. Attach the connect fitting C to the connect inlet located on the control panel.
4. Connect the LPG/NG regulator solenoid plug D to the LPG/NG regulator solenoid port located on the control panel.
5. Connect the locally approved flexible fuel supply line F (not included) to the LPG/NG regulator/hose assembly B and the fuel source. We recommend using the FIRMEN 25 ft Quick Connect Hose Kit (Model 1815) for natural gas (NG) connection (this accessory is not included). Hose requirements may vary by local codes. Consult your local licensed plumber to ensure full compliance with all relevant codes. Ensure the NG source location (G) and the hose (F) used allow the portable generator to be positioned at least 20 ft away from any occupied spaces.

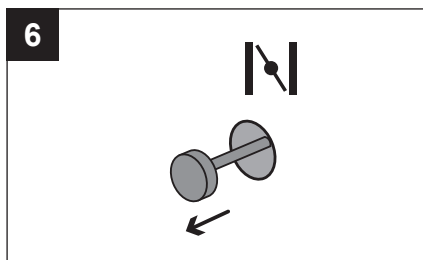
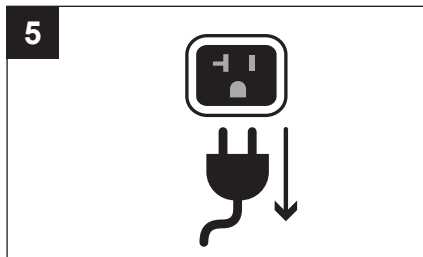
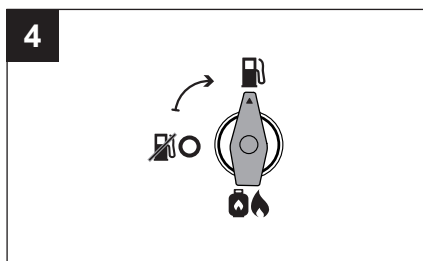
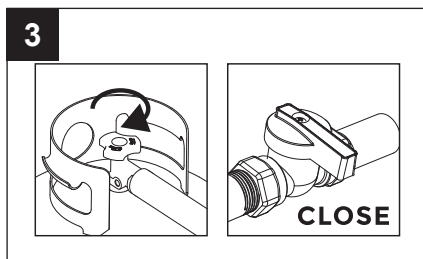




WARNING! Failure to read and follow all warnings and instructions in this manual and on-product labels before attempting to start or operate this portable generator could result in death or serious injury.

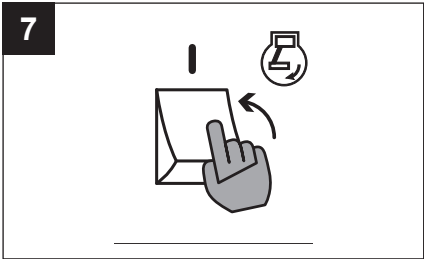
3 Starting the Generator on Gasoline

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. Operate portable generator only outdoors and downwind at least 20 ft from occupied spaces with exhaust pointed away to reduce the risk of carbon monoxide accumulating.
3. If connected make sure the LPG cylinder knob or the NG source valve are fully closed or disconnected.
4. Turn the main fuel selector switch to "GAS" position.
5. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in.
6. Pull the choke button to the "START" position. You do not need to choke a warm engine.

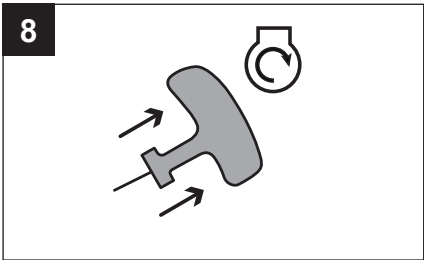


OPERATING INSTRUCTIONS

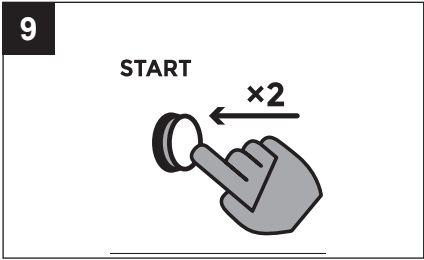
7. Flip the engine switch to the “ON”(I) position.



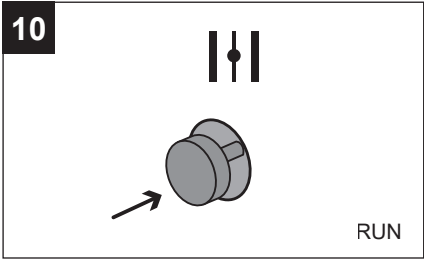
8. For recoil start only - Pull the starter cord slowly until resistance is felt and then pull rapidly to start engine.



9. For electric start only - Press the engine start button two times or press and hold for 3-5s and then release.



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

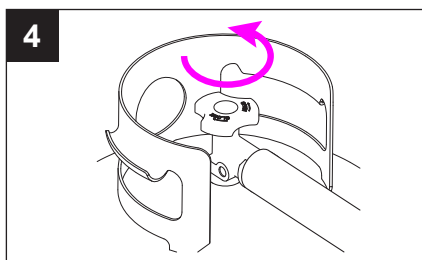
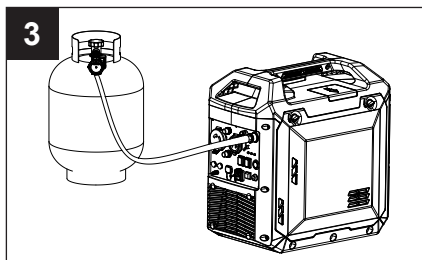


11. Allow portable generator to run at no load for a few minutes to stabilize before plugging in any electrical devices.

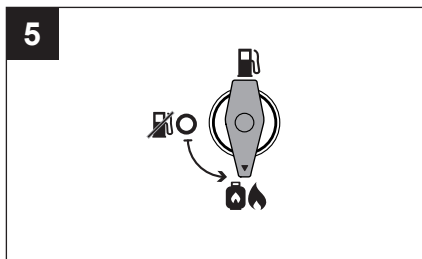
NOTICE If engine starts but fails to run, or if portable generator shuts down during operation, check oil level. See Low Oil Shutdown section for more information.

4 Starting the Generator on LPG

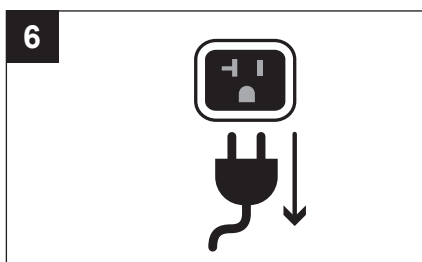
1. Before starting the generator, check for loose or missing parts and for any damage which may have occurred during shipment. Ensure spark plug, muffler, fuel cap, and air cleaner are all in place.
2. Operate portable generator only outdoors and downwind at least 20 ft from occupied spaces with exhaust pointed away to reduce the risk of carbon monoxide accumulating.
3. Connect the LPG hose with regulator to both LPG cylinder and portable generator LPG Hose Connector (inlet). Also connect the LPG/NG regulator solenoid plug to the LPG/NG regulator solenoid port located on the control panel .
4. Fully open the LPG cylinder knob.



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

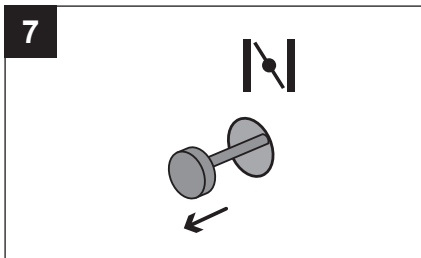


6. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in.

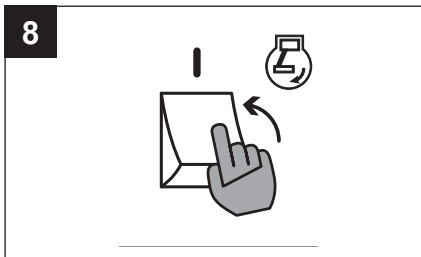


OPERATING INSTRUCTIONS

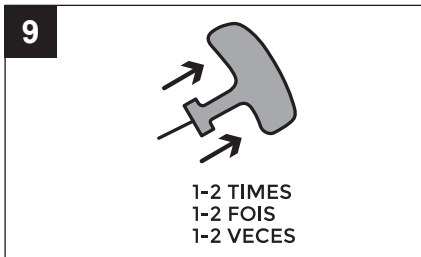
7. Pull the choke button to the "CHOKE" position.
You do not need to choke a warm engine.



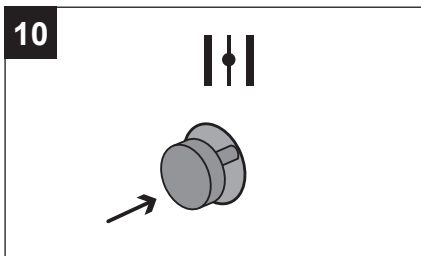
8. Flip the engine switch to the "ON"(I) position.



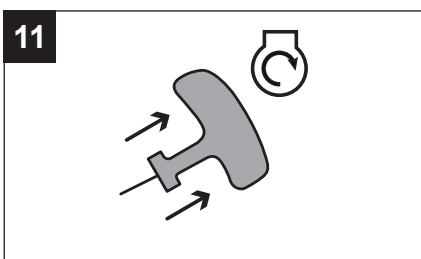
9. For recoil start only - PULL-TO-PRIME Pull the starter cord 1-2 times. Pull slowly until resistance is felt and then pull rapidly.



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

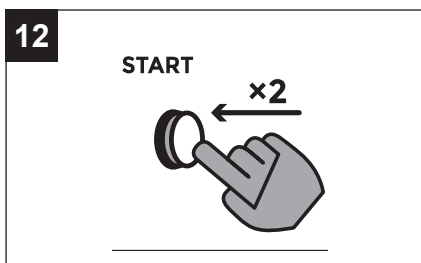


11. For recoil start only - PULL-TO-RUN Pull the starter cord slowly until resistance is felt and pull rapidly to run the portable generator.
If the engine fails to start in 1-2 pulls with choke in the RUN position, move choke button to CHOKE position and repeat the PULL-TO-PRIME step (9).

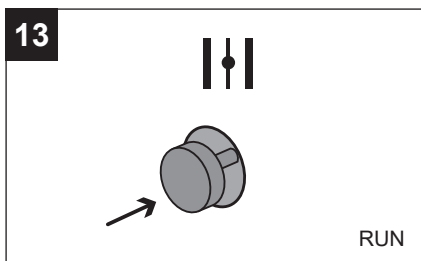


OPERATING INSTRUCTIONS

12. For electric start only - Press the engine start button two times or press and hold for 3-5s and then release.



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

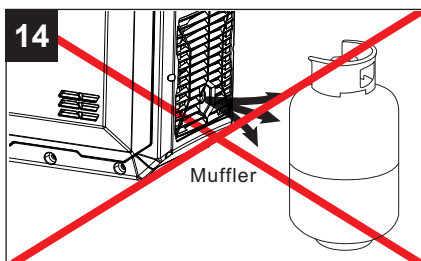


14. Allow portable inverter generator to run at no load for a few minutes to stabilize before plugging in any electrical devices.

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.

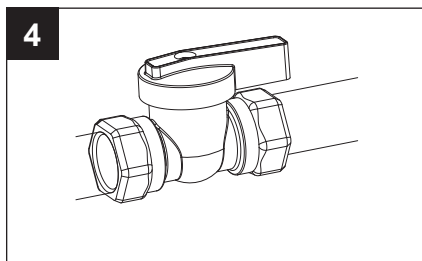
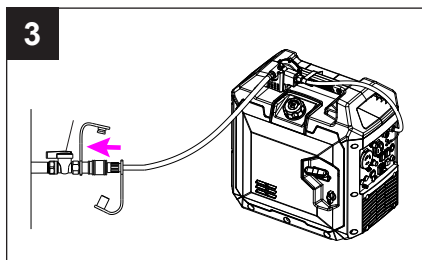
NOTICE Observing frost on LPG cylinder and regulator is common during operation and normally is not an indication of a problem. In unusual situations this frost may eventually restrict the flow of LPG gas to the generator resulting in deteriorating performance. In these rare situations it can be helpful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

- Exchanging fuel cylinders to allow the first cylinder to warm up, repeating as necessary.
- 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.

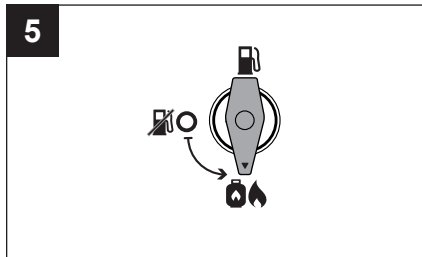


5 Starting the Generator on NG

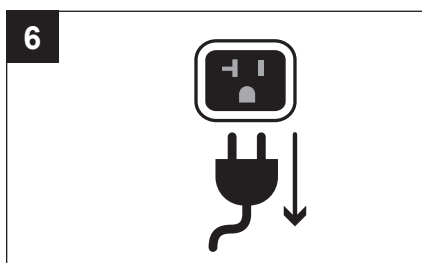
1. Before starting the generator, check for loose or missing parts and for any damage which may have occurred during shipment. Ensure spark plug, muffler, fuel cap, and air cleaner are all in place.
2. Operate portable generator only outdoors and downwind at least 20 ft from occupied spaces with exhaust pointed away to reduce the risk of carbon monoxide accumulating.
3. Connect the FIRMEN secondary NG pressure regulator to the portable generator NG Hose Connector (inlet) and then connect the NG hose to both the NG source and secondary NG pressure regulator. Also connect the NG regulator solenoid plug to the LPG/NG regulator solenoid port located on the control panel .
4. Fully open the NG source valve.



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

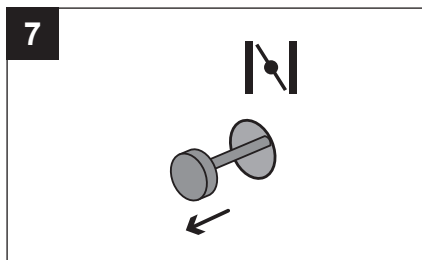


6. Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in.

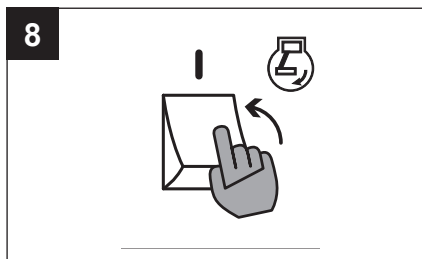


OPERATING INSTRUCTIONS

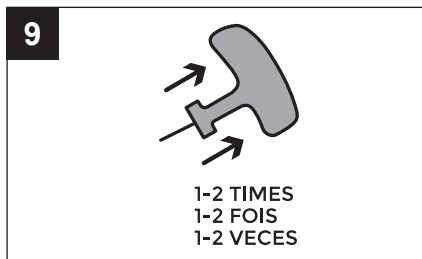
7. Pull the choke button to the "CHOKE" position.
You do not need to choke a warm engine.



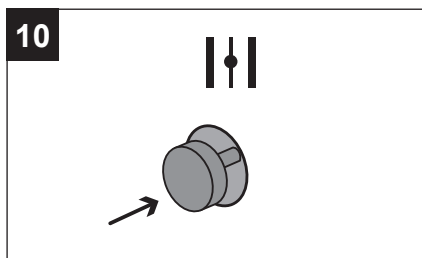
8. Flip the engine switch to the "ON"(I) position.



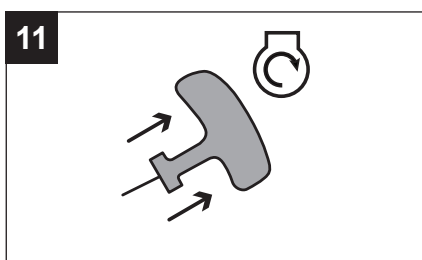
9. For recoil start only - PULL-TO-PRIME Pull the starter cord 1-2 times. Pull slowly until resistance is felt and then pull rapidly.



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

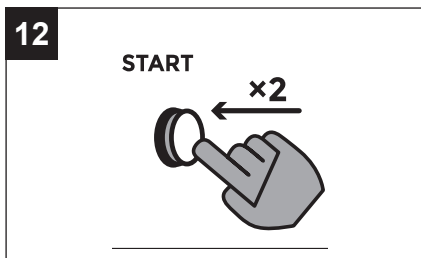


11. For recoil start only - PULL-TO-RUN Pull the starter cord slowly until resistance is felt and pull rapidly to run the portable generator.
If the engine fails to start in 1-2 pulls with choke in the RUN position, move choke button to CHOKE position and repeat the PULL-TO-PRIME step (9).

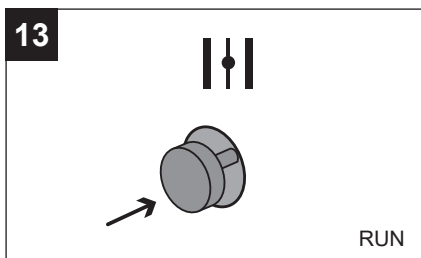


OPERATING INSTRUCTIONS

12. For electric start only - Press the engine start button two times or press and hold for 3-5s 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

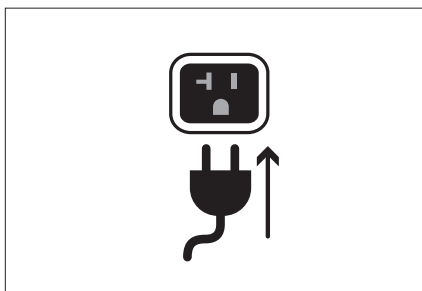
This inverter generator has been pretested and adjusted to handle its full capacity.



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

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

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



Surge Protection

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

CO Alert

Carbon Monoxide (CO) Shutdown System

CO Alert automatically shuts down the engine when harmful levels of carbon monoxide accumulate around the generator or a CO Alert fault occurs. After shutdown, the CO Alert indicator light will blink for at least five minutes per the chart below. CO Alert DOES NOT replace carbon monoxide alarms. Install battery-powered carbon monoxide alarm(s) in your home. Don't run generator in enclosed areas.

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

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

Economy Control Switch

This unit is equipped with a two-gear economy mode control switch, which automatically adjusts the engine speed based on the electrical load to achieve an optimal balance among fuel consumption, noise level and output performance.

Super ECO Mode: The engine operates at a low speed, suitable for low-power electrical devices such as mobile phones, laptops and LED lamps, and effectively reduces the overall noise and fuel consumption of the unit.

ECO Mode: The engine speed is higher than that in Super ECO Mode. It delivers more stable power output while maintaining excellent fuel economy, and is applicable to medium and low-load electrical scenarios.

Turbo Mode: The engine runs at a constant high speed, capable of providing maximum and stable power output to meet the power requirements of electrical equipment with high load or high starting power inductive load.

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 120V 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.

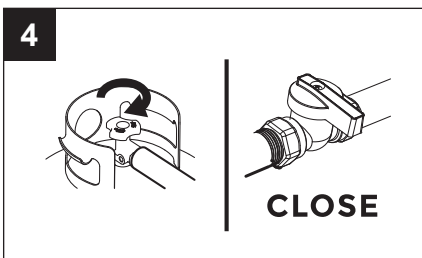
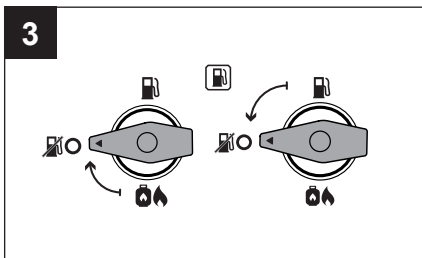
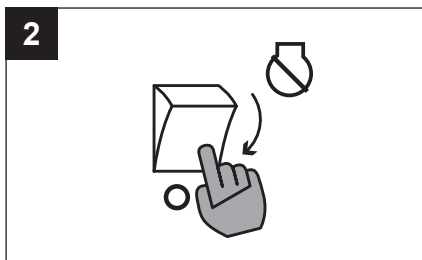
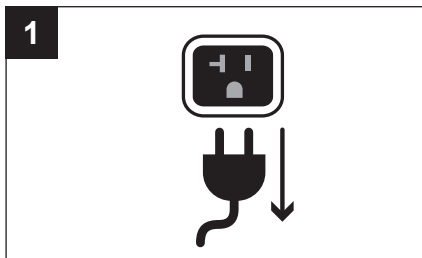
Let the generator run at no-load for one minute to stabilize internal temperatures of the engine and generator.

2. Turn the engine switch to OFF (O) position.

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

4. 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 FIRMEN Service Dealer.

OPERATING INSTRUCTIONS

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

If oil level is below the LOW mark on dipstick:

1. Add oil to bring level to HIGH mark.

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

3. Contact an Authorized FIRMAN Service Dealer.

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

Do Not Overload Generator

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

1. Start the generator with no electrical load attached.

2. Allow the engine to run for several minutes to stabilize.

3. Plug in and turn on the first item. It is best to attach the item with the largest load first.

4. Allow the engine to stabilize.

5. Plug in and turn on the next item.

6. Allow the engine to stabilize.

7. Repeat steps 5-6 for each additional item.

Overload Operation

If the generator is overloaded or there is a short circuit in the load, the overload protection red light will light up. The green light for AC output will turn off, and the output of the receptacle will be cut off.

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 120V inverter generators with parallel ports, including two FIRMAN inverters model WT03571 can be paralleled to increase the total available electrical power to 6000 Watts.

NOTICE

- Only two compatible FIRMAN 120V inverters can be operated in parallel.
- DO NOT attempt to parallel other models or brands.
- DO NOT connect parallel cables while generators are running.
- DO NOT disconnect the parallel connection cables during the parallel operation of generator sets.

1. Ensure both inverters are on level ground, disconnected from all loads, and turned OFF.

2. Firmly connect the FIRMAN parallel kit (not included) to the parallel operation ports on both inverters.

3. Start the first inverter, then start the second inverter.

4. Wait a few seconds for both units to synchronize.

5. Once synchronized, use the parallel kit to output the power.

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 shedule chart above.

MAINTENANCE - STORAGE

When Transporting Generator

Transport with fuel tank EMPTY or with fuel valve in OFF position.
Do not tip generator at an angle which causes fuel to spill.
Disconnect LPG/NG regulator/ hose assembly 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.



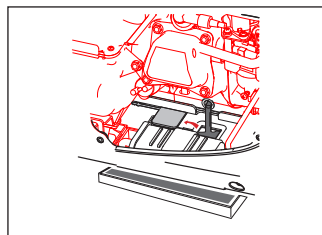
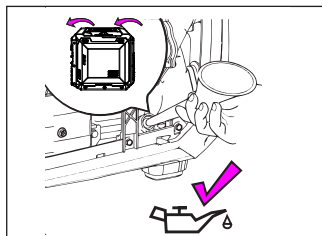
Keep Out Of Reach Of Children. Don't Pollute. Conserve Resources. Return Used Oil To Collection Centers.

- (a) Open the latches on the maintenance cover and remove the maintenance cover.
- (b) Remove the oil filler cap/dipstick.
- (c) Tilt the generator on its side and allow the oil to drain completely.
- (d) Fill the engine with oil until it reaches the HIGH(H) level on the oil filler cap. **DO NOT OVERFILL.**

NOTICE Do not screw in cap/dipstick when checking oil level.

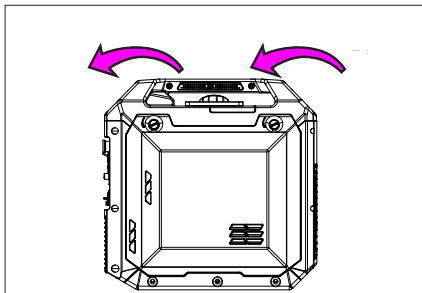
- (e) Reinstall the maintenance cover.
- (f) Dispose of used oil at an approved used oil collection centers.

NOTICE We recommend using SAE 10W-30 API SL or higher oil for best performance. Do not use special additives. See Oil and Gasoline section (page 15).

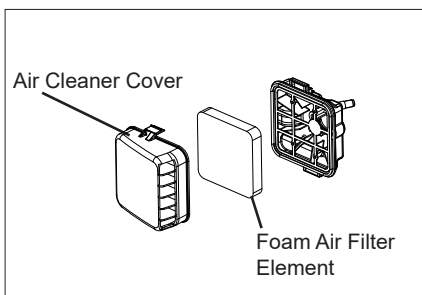


Air Cleaner Maintenance

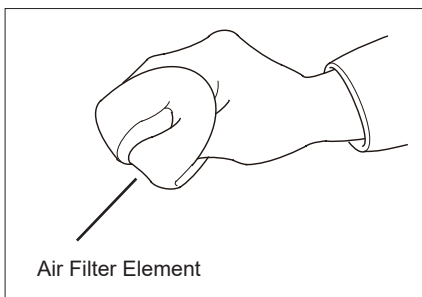
(a) Remove the air cleaner cover.



(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.

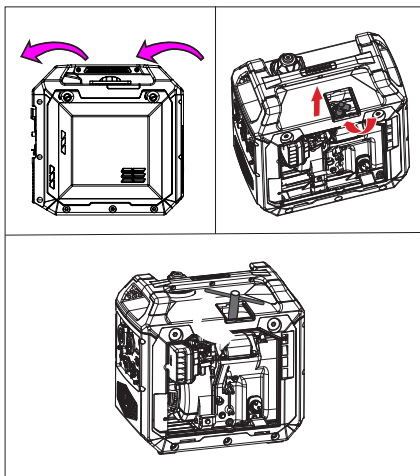
(e) Reinstall the air cleaner cover.

Spark Plug Maintenance

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

- (a) Remove the Spark Plug 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 0.028 - 0.031 in.
- (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.

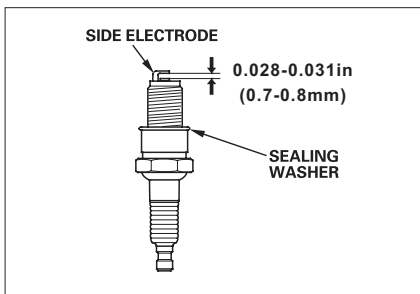


Spark Plug: A5RTC

Maintenance Valve Clearance

Intake: 0.004 – 0.006 in

Exhaust: 0.004 – 0.006 in



Muffler and Spark Arrester Maintenance

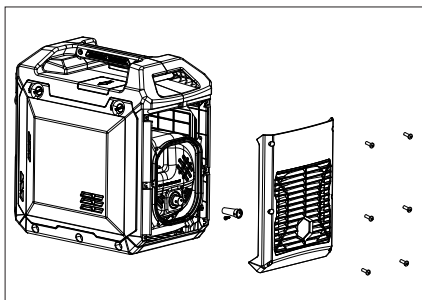


WARNING! Contact with muffler area could cause burns resulting in serious injury.

- 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 fasten screw, remove the spark arrester with a thin blade screwdriver .

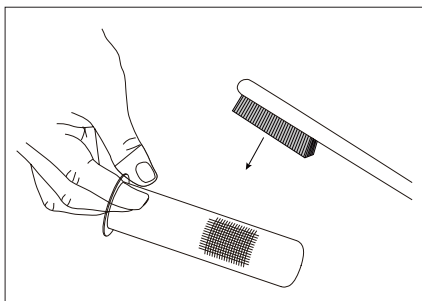


3. Carefully remove the carbon deposits from the spark arrester screen with a wire brush.

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

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

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

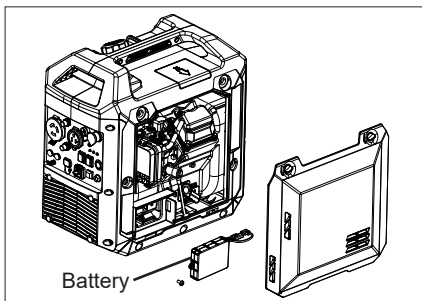


GENERATOR MAINTENANCE

- Run the generator at least 30 minutes every month.
- Make certain that the portable generator is kept clean and dry.
- Do not expose the unit to excessive dust, dirt, moisture or corrosive vapors.
- Do not insert any objects through cooling slots.
- Before each use inspect underneath the generator for signs of oil or fuel. Clean any accumulated debris. Keep area around muffler free from any debris. Use a soft bristle brush to remove dirt or caked on oil. Use a damp cloth to clean all exterior surfaces.

Battery Replacement

1. Remove the maintenance cover.
2. Release the battery using the screwdriver.
3. Disconnect the quick connector.
4. Remove the battery and recycle.
5. Install the new battery with following specification:
12V lithium battery 1.2AH
LXWXH:5.04X3.15X1.02 in.(128X80X26mm)
6. Connect the battery quick connector.
7. Tighten the battery with the M6×12 bolt.
8. Reattach the maintenance cover.



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.

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.

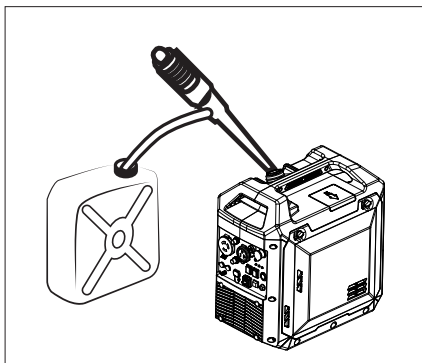
Do not store fuel near any ignition sources.

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

1. Add a properly formulated fuel stabilizer to the gasoline tank.
2. Start the generator as instructed in Starting the Generator section.
3. Run the generator for 5-10 minutes so the treated gasoline cycles through the fuel system.
4. Turn the main fuel selector switch to the "OFF" position until the engine stops. This may take 3-5 minutes.
5. Change oil after the engine cools down entirely.
6. Remove spark plug and pour about one teaspoon of engine oil into the cylinder.
7. Pull the starter cord a few times to lubricate the cylinder and then reinstall the spark plug.
8. Cover and store the unit in a clean, dry place out of direct sunlight.

NOTICE 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. Generator is overloaded. 4. Shorted generator circuit. 5. Clogged or dirty fuel filter.	1. Disconnect shorted electrical load. 2. Contact authorized service facility. 3. See Don't Overload Generator. 4. Contact authorized service facility. 5. Clean or replace fuel filter.
Engine will not start; starts and runs rough or shuts down when running.	1. 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 fuel. 6. Stale fuel. 7. Spark plug wire not connected to spark plug. 8. Bad spark plug. 9. Water in fuel. 10. Flooded. 11. Excessively rich fuel mixture. 12. 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. 6. Drain fuel tank and carburetor; fill with fresh fuel. 7. Connect wire to spark plug. 8. Replace spark plug. 9. Drain fuel tank and carburetor; fill with fresh fuel. 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.

TROUBLESHOOTING – SPECIFICATIONS

Specifications

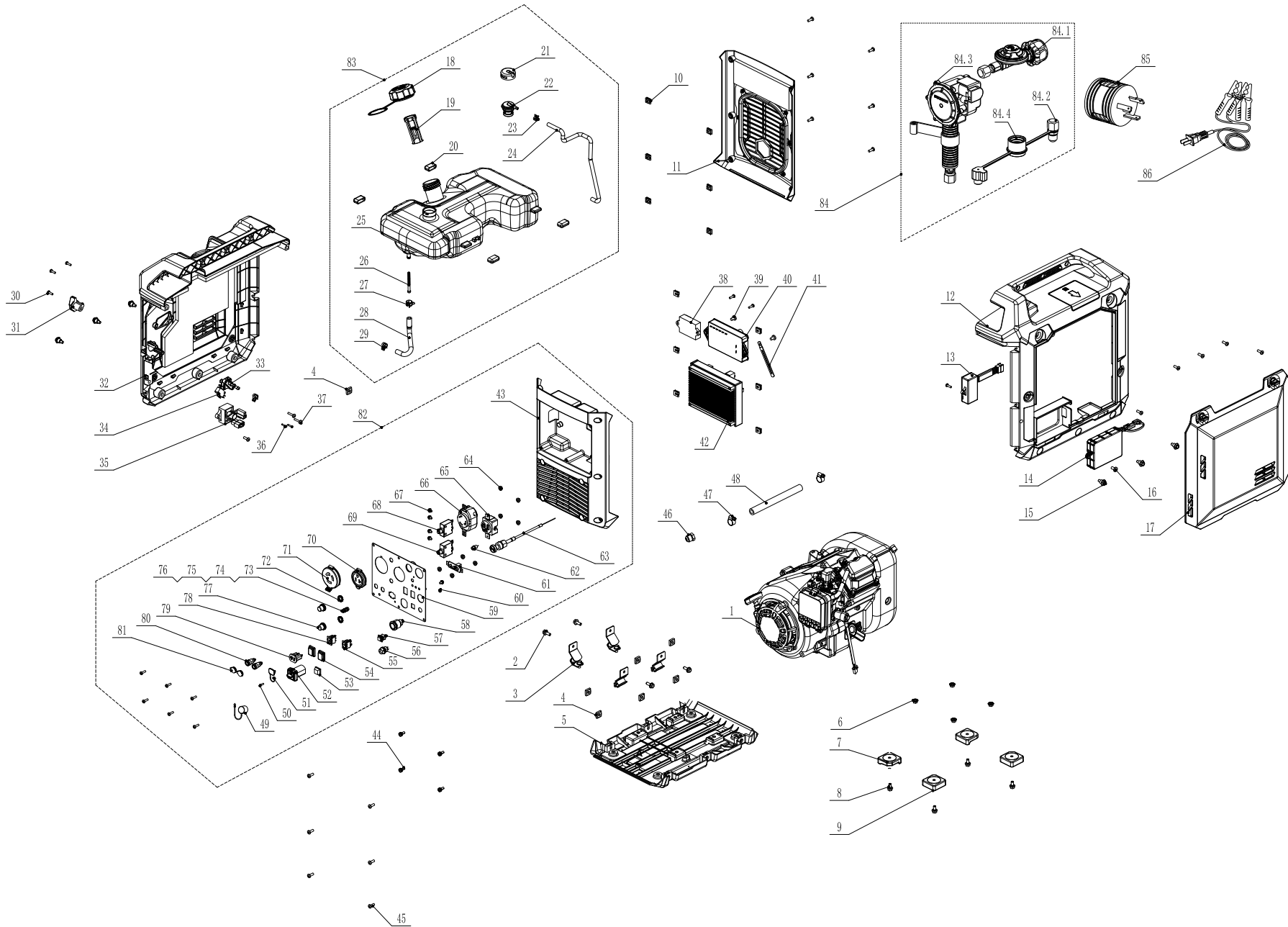
Model	WT03571		
Starting Watts	4125(GASOLINE)/3750(LPG)/3300(NG)		
Running Watts*	3300(GASOLINE)/3000(LPG)/2650(NG)		
Rated AC Voltage	120V		
Rated Frequency	60Hz		
Phase	Single		
Voltage Regulator	Digital		
Power Factor	1		
Alternator Type	Magneto Inductor		
Engine	FIRMAN		
Engine Type	Single Cylinder, 4-Stroke OHV Air Cooled		
Displacement	145cc		
Low Oil Shutdown	Yes		
Ignition System	Breakless Ignition Type, Flywheel Magneto		
Starting System	Recoil/Electric		
Fuel	Unleaded Automotive Gasoline		
Capacity Fuel Tank	5.7 L / 1.51 gallons		
Lubricating Oil Capacity	450 ml / 15.2 fl oz		
Carburetor Type	Float		
Air Cleaner	Polyurethane Type		
P.T.O. Shaft Rotation	Counter Clockwise (Facing P.T.O.)		
Oil Type	See "Add Engine Oil" Section		
AC Grounding System	Neutral Floating		
Natural Gas Fuel Pressure Range	1.7-2.7 kpa / 13- 20mm mercury 7-11 inches water column / 0.25-0.40 psi		
	Quarter load (25%)	Half Load	Full Load
Natural Gas Fuel Consumption	0.4 m³/h 14.1 ft³/h 14,407 BTU/h 4,222 W	0.65 m³/h 23 ft³/h 23,910 BTU/h 6,924 W	1.2 m³/hr 42.4 ft³/hr 42,201 BTU/h 12,368 W
LPG fuel consumption	6.03 ft³/hr(0.65L/hr) 15,200 BTU/h	12.8 ft³/hr(1.38L/hr) 32,400 BTU/h	22.6 ft³/hr(2.44L/hr) 57,100 BTU/h

*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.

REPLACEMENT PARTS LIST

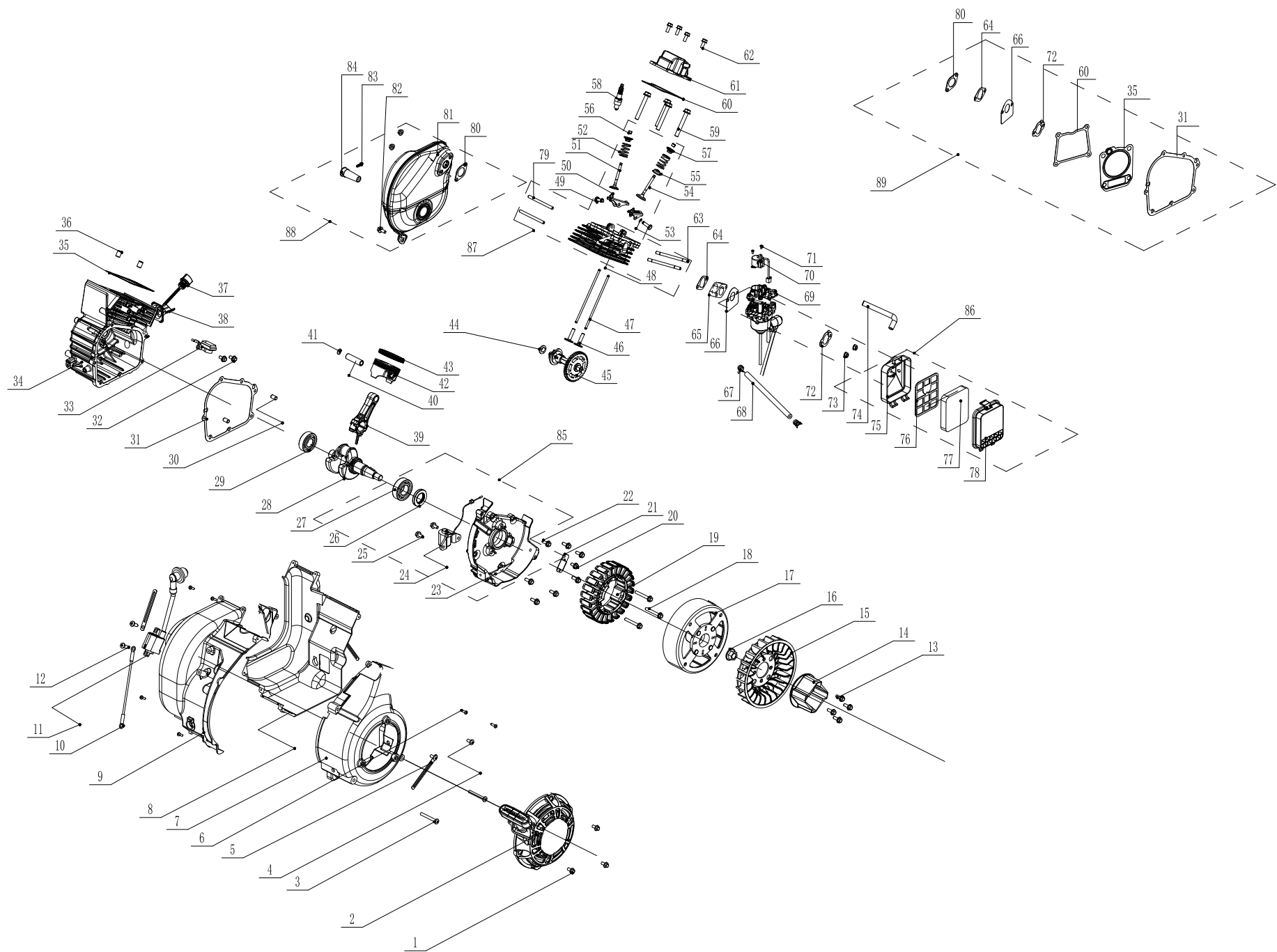
For replacement parts, call our customer service department at [844-347-6261](tel:844-347-6261), 8 a.m. - 8 p.m., EST, Monday - Sunday.

WT03571 Parts Diagram



REPLACEMENT PARTS LIST

145cc Engine Parts Diagram



REPLACEMENT PARTS LIST

WT03571 Portable Generator

All replacement parts are covered under warranty.

NO.	Part Number	Description	Qty.	NO.	Part Number	Description	Qty.
1	333467028	Engine	1	49	333723040	Plug	1
2	336715522	Flange Bolt M6 x 16	4	50	330713605	Screw & Washer Assy. M3 x 10	1
3	317713512	Isolator	4	51	333723016	Outlet Cover 12V DC	1
4	333717014	Nut M6	6	52	333753007	Receptacle, USB	1
5	333723001	Base Assy.	1	53	333727006	Cover	1
6	375715016	Nut M6	4	54	316735503	Cover, Engine Switch	2
7	320725501	Isolator I	2	55	333753008	Engine Switch	1
8	336718302	Flange Bolt M6 x 12	4	56	336755002	CO Indicator Light	1
9	320725502	Isolator II	4	57	330713630	Breaker, AC Reset	1
10	317713524	Nut M5	12	58	375457019	Switch	1
11	333723002	Right Cover Assy.	1	59	333713009	Control Panel Assy.	1
12	333723003	Front Cover Assy.	1	60	336718322	Nut M3	1
13	355428303	CO Module	1	61	320755501	LED Assy.	1
14	333753003	Battery, 1.2Ah	1	62	330713660	Receptacle, Battery Charger	1
15	317713001	Bolt M6 x 16	6	63	333723017	Pull Choke Assy.	1
16	336718361	Screw M6 x 12	1	64	336718324	Nut M4	8
17	333723004	Maintenance Cover	1	65	320755500	Receptacle, 5-20R	1
18	333723005	Fuel Cap	1	66	317713580	Receptacle, L5-30R	1
19	333723006	Fuel Filter	1	67	330723588	Screw & Washer Assy. M4 x 8	5
20	317713526	Mounting, Fuel Tank	4	68	336713585	Circuit Breaker, Push Button, 20A	1
21	333723007	Rollover Valve Board	1	69	329713610	Breaker, 10A Push Button	1
22	333723008	Rollover Valve Assy.	1	70	320723006	5-20R Receptacle Cover	1
23	317713553	Clamp Ø8 x 6	1	71	336725506	Receptacle Cover, L5-30R	1
24	333723009	Hose	1	72	336457020	Nut M11 x 1	2
25	333723010	Fuel Tank	1	73	336718345	Flange Bolt M5 x 16 (Ground)	1
26	333717008	Filter, Inline	1	74	336713580	External Tooth Lock Washer	1
27	316715503	Clamp Ø13.5 x 10	1	75	336718307	Flat Washer Ø5	2
28	333723011	Hose	1	76	336713577	Nut M5	2
29	330713508	Clip Ø10.5 x 8	2	77	336755005	Cover, 20A Push Button, Circuit Breaker	2
30	336718383	Screw & Washer Assy. M4 x 14	11	78	333753009	ECO Switch	1
31	333723012	Fuel Valve Knob	1	79	330713608	Receptacle, DC 12V	1
32	333427009	Rear Cover	1	80	330713603	Parallel Port	2
33	355418316	Fuel Valve	1	81	320753006	Parallel Port Cover	2
34	336713822	Micro Switch 2	1	82	333427010	Control Panel Assy.	1
35	330713574	Rectifier	1	83	333423001	Fuel Tank Assy.	1
36	399715591	Tapping Screw ST2.9 x 16	2	84	333413011	LPG Regulator Hose Assy.	1
37	375718320	Screw & Washer Assy. M4 x 20	2	84.1	333413012	LPG Regulator	1
38	333753004	Control Module	1	84.2	333713046	Inlet Adaptor	1
39	336723624	Flange Bolt M6 x 10	2	84.3	333413013	Hose With Regulator	1
40	333753005	Control Module	1	84.4	333723041	Protect Cover	1
41	330723528	Wire Clip	1	85	317713584	L5-30P to TT-30R Adaptor	1
42	333753006	Inverter	1	86	330713633	Battery Charging Cable	1
43	333723014	Left Side Cover Assy.	1				
44	336713538	Screw & Washer Assy. M5 x 14	4				
45	336718397	Screw M5 x 14	18				
46	333713045	Inlet Fitting	1				
47	336713835	Clamp Ø8-Ø14	2				
48	375715034	LPG Hose	1				

REPLACEMENT PARTS LIST

145cc Engine

NO.	Part Number	Description	Qty.	NO.	Part Number	Description	Qty.
1	336718361	Screw M6 x 12	3	49	333713030	Rocker Arm Shaft	2
2	333427011	Recoil Assy.	1	50	333713031	Rocker Arm Assy.	2
3	333713014	Bolt M6 x 50	2	51	333713032	Exhaust Valve	1
4	336718361	Screw M6 x 12	2	52	333713033	Valve Spring	2
5	330723528	Wire Clip	3	53	333713034	Clip	2
6	330713523	Screw ST4.2 x 16	7	54	333713035	Intake Valve	1
7	333723022	Engine Cover Assy.	1	55	333713036	Valve Seal	1
8	333723023	Wind Guide, Lower	1	56	333713037	Valve Lock Clip	4
9	333723024	Wind Guide, Higher	1	57	333713038	Retainer, Valve Spring	2
10	333753010	Ground Wire	1	58	320715548	Spark Plug (A5RTC)	1
11	333753011	Ignition Coil	1	59	333713039	Flange Bolt M8 x 60	4
12	333713015	Screw ST6.3 x 22	2	60	333713040	Gasket, OHV Cover	1
13	336718338	Flange Bolt M6 x 12	4	61	333713041	Cylinder Head Cover Assy.	1
14	333713016	Pulley, Starter	1	62	312715059	Screw M6 x 20	4
15	333723025	Cooling Fan	1	63	330723556	Stud Bolt M6 x 97	2
16	330713555	Nut M14	1	64	333723029	Gasket, Insulator	1
17	333753012	Rotor	1	65	333723030	Plate, Carburetor Insulator	1
18	317723524	Bolt M6 x 35	3	66	333723031	Gasket, Carburetor	1
19	333753013	Stator	1	67	333723032	Fuel Hose	1
20	336718338	Flange Bolt M6 x 12	1	68	330713508	Clip Ø10.5 x 8	1
21	333723026	Plate	1	69	333713044	Carburetor	1
22	312715059	Screw M6 x 20	7	70	320715535	Stepper Motor	1
23	333713017	Crankcase Cover	1	71	380713542	Screw & Washer Assy. M3	2
24	333753014	Low Oil Sensor	1	72	333723033	Gasket, Air Cleaner	1
25	336718301	Flange Bolt M6 x 12	3	73	336723555	Nut M6	4
26	336723513	Seal, Oil	1	74	333723034	Breather Hose	1
27	333717030	Bearing 6205TM	1	75	333723035	Air Cleaner Base	1
28	333713018	Crankshaft	1	76	333723036	Clapboard	1
29	333717030	Bearing 6205TM	1	77	333723037	Air Element	1
30	317723516	Dowel Pin 8 x 14	2	78	333723038	Air Cleaner Cover	1
31	333713019	Crankcase Gasket	1	79	333713042	Stud Bolt, Intake	2
32	336718338	Flange Bolt M6 x 12	1	80	333723039	Gasket, Muffler	1
33	333753015	Trigger Assy.	1	81	333413007	Muffler	1
34	333713020	Crankcase	1	82	336718301	Flange Bolt M6 x 12	1
35	333713021	Cylinder Head Gasket	1	83	330713548	Screw ST3.5 x 9.5	1
36	330723548	Locating Pins	2	84	333713043	Spark Arrestor	1
37	320715524	Oil Dipstick Assy.	1	85	333413008	Crankcase Cover Assy.	1
38	333723027	Oil Nozzle	1	86	333423002	Air Cleaner Assy.	1
39	333713022	Connecting Rod Assy.	1	87	333413009	Cylinder Head Assy.	1
40	333713023	Piston Pin	1	88	333413010	Muffler Assy.	1
41	333713024	Piston Pin Circlip	2	89	333423013	Gasket Set	1
42	333713025	Piston	1				
43	333413005	Piston Rings Set	1				
44	333723028	Camshaft Gasket	1				
45	333713026	Camshaft Assy.	1				
46	333713027	Valve Lifter	2				
47	333713028	Push Rod	2				
48	333713029	Cylinder Head	1				

Wiring Diagram



SERVICE – WARRANTY

For service information contact FIRMAN customer service 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 3 YEARS 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 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 customer service and FIRMAN will troubleshoot any issue via phone or e-mail. If the problem is not corrected by this method, FIRMAN will, at its option, authorize evaluation, repair or replacement of the defective part or component at a FIRMAN Service Center. FIRMAN will provide you with a case number for warranty service. Please keep it for future reference. Repairs or replacements without prior authorization, or at an unauthorized repair facility, will not be covered by this warranty.

Warranty Exclusions

This warranty does not cover the following repairs and equipment.

Normal Wear

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

SERVICE – WARRANTY

INSTALLATION, USE AND MAINTENANCE

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

Other Exclusions

This warranty excludes:

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

LIMITS OF IMPLIED WARRANTY AND CONSEQUENTIAL DAMAGE

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

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 WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The United States Environmental Protection Agency (EPA) and FIRMAN POWER EQUIPMENT INC. (FIRMAN) are pleased to explain the emission control system warranty on your [2026-2027] model year small off-road engine/equipment. In the United States, new small off-road engine/equipment must be designed, built and equipped to meet the State's stringent anti smog standards. FIRMAN must warrant the emission control system on your small off-road engine/equipment for the period listed below provided there has been no abuse, neglect or improper maintenance of your small off-road engine/equipment leading to the failure of the emission 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 small off-road engine/equipment at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

This emission Control System is warranted for two years. If any emission-related part on your engine/equipment is defective, the part will be repaired or replaced by FIRMAN.

OWNER'S WARRANTY RESPONSIBILITIES:

As the small off-road engine/equipment owner, you are responsible for the performance of the required maintenance listed in your owner's manual. FIRMAN recommends that you retain all receipts covering maintenance on your small off-road engine/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 small off-road engine/equipment owner, you should however be aware that FIRMAN may deny you warranty coverage if your small off-road engine/equipment or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications. You are responsible for presenting your small off-road engine/equipment to FIRMAN distribution center as soon as a 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 or www.firmanpowerequipment.com.

DEFECTS WARRANTY REQUIREMENTS:

- (a) The warranty period begins on the date the engine/equipment is delivered to an ultimate purchaser.
- (b) General Emissions Warranty Coverage. FIRMAN warrants to the ultimate purchaser and each subsequent owner that the engine/equipment is:
 - (1) Designed, built, and equipped so as to conform with all applicable regulations adopted by the Environmental Protection Agency; and
 - (2) Free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.
- (c) The warranty on emissions-related parts will be interpreted as follows:
 - (1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions required by subsection (d) must be warranted for the warranty period defined in Subsection (b)(2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by FIRMAN according to Subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for the remaining warranty period.
 - (2) Any warranted part that is scheduled only for regular inspection in the written instructions required by subsection (d) must be warranted for the warranty period defined in Subsection (b)(2). A statement in such written instructions to the effect of "repair or replace as necessary" will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for the remaining warranty period.

SERVICE – WARRANTY

(3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions required by subsection (d) must be 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 must be repaired or replaced by FIRMAN according to Subsection (4) below. Any such part repaired or replaced under warranty must 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 at all FIRMAN distribution centers that are franchised to service the subject engine/ equipment.

(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/equipment components proximately caused by a failure under warranty of any warranted part.

(8) Throughout the emissions warranty period defined in Subsection (b)(2), FIRMAN must 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 FIRMAN.

(10) Add-on or modified parts that are not exempted by the Environmental Protection Agency may not be used. The use of any non-exempted add-on or modified parts will be grounds for disallowing a warranty claim. FIRMAN will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

(11) FIRMAN issuing the warranty shall provide any documents that describe that manufacturer's warranty procedures or policies within five working days of request by the Environmental Protection Agency.

(d) Emission Warranty Parts List for exhaust (for all displacements).

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

FIRMAN will furnish with each new engine/equipment written instructions for the maintenance and use of the engine/equipment by the owner.

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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