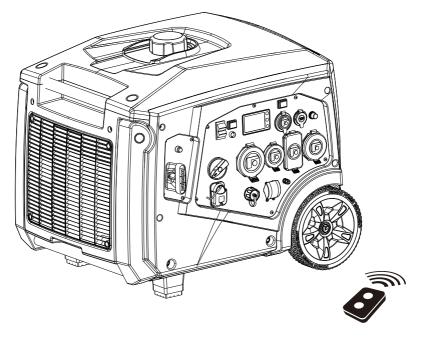


OPERATOR'S MANUAL PORTABLE INVERTER GENERATOR





MODEL NUMBER W05583 Rev Level:00

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



SERIAL NUMBER:

PURCHASE DATE: _

Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information FIRMAN W05583 INVERTER GENERATOR Firman Power Equipment 8644 W. Ludlow Dr. Peoria, AZ 85381 Telephone: 1-844-347-6261 www.firmanpowerequipment.com

FCC/IC Compliance Statement

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

1a. This device may not cause harmful interference.

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

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

NOTE: The FIRMAN W05583 inverter generator has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

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REGISTER YOUR PRODUCT

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



INTRODUCTION

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

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

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

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



Safety Alert Symbol- Indicates a potential personal injury hazard.



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



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



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



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



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

INTRODUCTION



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

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

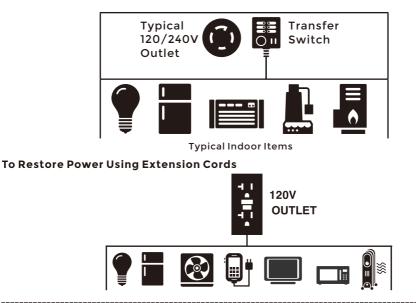
The generator has a system ground that connects the generator frame components to the ground terminals on the AC output receptacles. The system ground is connected to the AC neutral wire. The neutral is bonded to the generator frame.

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.



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

| | Image: Constraint of the second se |
|-----------|---|
| Total | Minimum Gauge, Outdoor Rated |
| Amperage | Up to 50 FT (15 m) |
| Up to 13A | • |
| Up to 15A | 14 |
| Up to 20A | 12 |
| Up to 30A | 10 |

2. Follow cord safety instructions.

3. Install carbon monoxide alarm(s).

4. When operating portable generator with extension cords, make sure portable generator is located downwind in an open, outdoor area, at least 20 ft. (6 m.) from occupied spaces with exhaust pointed away.

5. Extension cords running directly into your home, powering indoor items IS NOT RECOMMENDED.

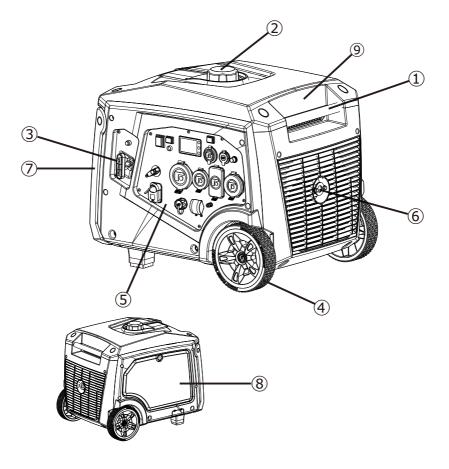


DANGER! Engine exhaust contains carbon monoxide, a poisonous gas that will kill you in minutes. You cannot smell it, see it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas.

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

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

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



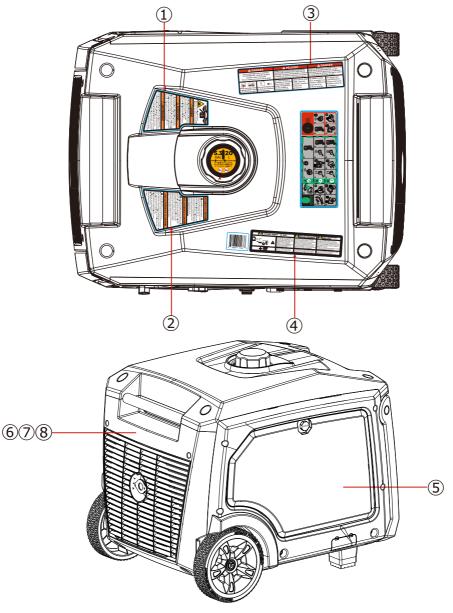
- 1- Fixed Carrying Handle
- 2- Fuel Cap
- **3- Recoil Starter**
- 4- Never Flat Wheel
- 5- Control Panel
- 6- Muffler/Spark Arrester
- 7- Folding Handle
- 8- Maintenance Cover
- 9- Data Decal / Serial Number

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

LOCATION AND CONTENT OF ON-PRODUCT HAZARD LABELS

FREE WARNING LABEL REPLACEMENT

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



| 1 | 2 |
|--|--|
| Level of the second sec | FOR RESIDENTS OF CALIFORNIA M CARNING: This product and the engine subaust from this chemicals including CO, which are known to the State of California to cause cancer or cause bith defects and other reproductive harm. For more information, go to www.ESSWarnings.ca.gov. PARLOS RESIDENTES DE CALIFORNIA M ADVERTENCIA: Esta producto y of response del motor de esta producto y of response del motor de esta producto y of response del motor de esta productos y defectos de nacimitarios. Incluido CCO, que en el estado de California son concidos por causar cánecro causar defectos de nacimitarios. Incluido CO, qui son a conservatione or causar defectos de nacimitarios. Incluido M CONTESSEMENT: Ca produit el Brohappement du motour de ca produit peuventy sous exposer à des produits chinques, y compris les CO, qui sont consus part l'Esta de California pour causer le cancer ou causer des autres productios. Para obterer mejores pour productos cue causer esta matiormations congênitales et autres productos pueventoutos. Para de productos pueventoutos productos pour de courser pour productos pueventous congênitales et autres productos pueventous conservantes agov. |

| A DANGER | A PELIGRO | A DANGER | | |
|--|--|---|--|--|
| contains carbon monoxide. | Utilizar un generador en interiores PUEDE PROVOCARLA MUERTE EN CUESTIÓN DE MINUTOS. Los gases del generador contie monóxido de carbono, el cual es una sust cia venenosa que no puede verse ni olers | nen d'échappement du générateur contiennent n- du monoxyde de carbone. Ceci est un poison | | |
| NEVER use inside a home only use OUTSIDE and or garage, EVEN IF doors far away from windows, | generador en el interior de su hogar ni enun garaie. NI SIOUIERA | RE NE JAMAIS utiliser dans un garage ou à l'intérieur, MÉME avec les portes et les fenêtres ouvertes. À n'utiliser qu'à L'EXTÉRIEUR et à distance de toutes fenêtres, portes et ouvertures. | | |

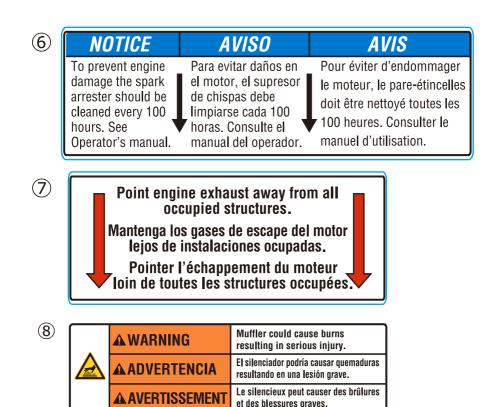
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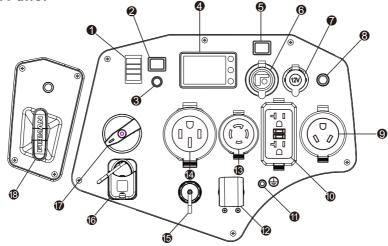
| CALL AUTOMATIC SHUTO | FF - YOU MUST: | CORTE AUTOMÁTICO-DEBE REALIZAR LO SIGUIENTE: | ARRÊT AUTOMATIQUE - VOUS DEVEZ: |
|----------------------|--------------------------------|---|--|
| | MOVE GENERATOR TO AN OPEN | TRASLADE EL GENERADOR A UNA ZONA | DÉPLADEZ LA GÉMÉRATRICE PORTABLE À |
| | OUTDOOR AREA DOWNWIND, POINT | EXTERIOR ABIERTA A FAVOR DEL VIENTO Y | L'EXTREIRUE NABIS LE SIBIS DU VOIT, AVEC |
| | EXHAUST AWAY FROM HOMES, DON'T | ALEJE EL TUBO DE ESCAPE DE LAS VIVIENDAS. | L'EDAMPEMENT DIRIGÉ LOIN DE LA MAISON NE |
| | RUM GENERATOR IN ENCLOSED | NO UTILICE EL GENERADOR EN ÁREAS | PAS FARJE FONCTIONNEET, LA GÉMÉRATRICE DANS |
| | AREAS (e.g. NOT PREMISES OPEN | CERRADAS (POR LEMPLO. NO EN LA CSASA O | DES ESPACES CLOS (PAR EXEMPLE, NI DANS LA |
| | GARAGE) AIR OUT PREMISES (OPEN | EL GARAJE) VENTIEL LAS INSTALACIONES | MAISON NI LE GARAGE). |
| | WINDOWS AND DOORS) BEFORE | (ABRA LAS VENTAMÁS Y LAS PUERTAS) ANTES | AFREN LES LOCALIX (UNVEZ FENÈTRES ET PORTES) |
| | REOCCUPYING PROPERTY. | DE VOLVER A COLPAR LA PROPIEDAD. | AVANT DE RÉCOLIPER LA PROPRIETE. |
| | MOVE TO FRESH AIR AND GET | UBÍQUESE EN UN LUGAR DONDE CORRA | ALLEZ À L'AIR FRAIS ET OBTENEZ DE L'AIDE |
| | MEDICAL HELP IF SICK, DIZZY | AIRE FRESCO Y BUSQUE AYUDA MÉDICA | MÉDICALE EN CAS DE MALADIE, |
| | OR WEAK. | SI SE SIENTE MAL, MAREADO O DÉBIL. | D'ÉTOURDISSEMENT OU DE FAIBLESSE. |

(5)

| | A DANGER | DANGER | | A PELIGRO | | A DANGER | |
|--------------------------|--|--|---|--|---|-------------------------|--|
| | 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. | | |
| $\underline{\mathbb{A}}$ | Tampering with the CO ALERT system will cause Carbon Monoxide poisoning. Install Carbon Monoxide alarms inside home. | | envenenamiento por monóxido de carbono. Instale | | Toute altération du système D'ALERTE du monoxyde de carbone causera un empoisonnement au monoxyde de carbone. Installez des détecteurs demonoxyde de carbone à l'intérieur de la maison. | | |
| | Generator could cause electrical shock. indoors to avoid wet conditions. • Do not wet weather. • Transfer switch must be us connecting to a home's electrical system. | t run in rain or utilice en interiores para evitar o utilice en la lluvia o en condicio | | condiciones de humedad. • No ones de humedad. • Es de transferencia cuando se | La génératrice pourrait provoquer un choc étectrique. • 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 sys étectrique d'une maison. | | ue. les conditions humides. nps pluvieux. du raccordement au système |
| | Hot exhaust gases could cause fires. Kee (1.5m) clearance from any combustibles structures, incluing overhead. | | | inima de 1,5m de cualquier | Les gaz d'échappement chauds peuvent provoquer des incendies. Gardez au moins 5 pl (1,5 m) de dégagement de tout comb-ustible de toute structure, y compris au-dessus. | | oquer des incendies. de tout comb-ustible ou |
| | | | NOTICE AVISO | |) | AVIS | |
| | | | ore and transport on firm ce. • Tilting can cause fuel puede causar un derrame de | | Inclinarlo | | ooser et transporter sur une itale. • L'inclinaison peut de carburant. |
| | 322cc 35.5H.oz (1050ml) | Add lubricant to full mark to start. Engine will not start or will shut off if sensor detects low lubricant. | | Añada lubricante hasta la mar arrancar. El motor no arranca detecta el nivel de lubricante d | o se apaga si sensor | marque. Le moteur ne | ter du lubrifiant jusqu'à la démarrera pas ou s'arrêtera n manque de lubrifiant. |
| | Deen Abr | ir Quyrez | Spark Plug Maintenance | Mantenimiento de la buía. Entre | dien de la bougie | Al Maintenance Mantenim | The sector of th |



Control Panel



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

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

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

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

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

5. Battery Power Restore Switch

6. USB-C Output/Input Port

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

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

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

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

9. 120V, 30A RV - NEMA TT-30R

A maximum of 22.9 Amps current may be drawn from this receptacle.

10. 120V, 20A Duplex GFCI (Ground Fault Circuit Interrupter)- NEMA 5-20R

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

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

12. **30A Circuit Breaker** - The receptacles are protected by AC circuit protectors. If the generator is overloaded or an external short circuit occurs, a circuit protector may trip. If tripping occurs, disconnect all electrical loads and determine the cause before attempting to continue using the generator. Reset any tripped circuit protectors.

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

13. 120/240V, 30A - NEMA L14-30R

A maximum of 22.9 Amps current may be drawn from this receptacle.

14. 120/240V, 50A - NEMA 14-50R

A maximum of 45.8 Amps current may be drawn from this receptacle (Parallel Operation).

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

16. Remote Holder - to hold remote control for easy access.

17. Fuel Valve Knob

18. Recoil Starter

Intelligauge Display Screen



| | Remaining fuel | | |
|----------|--|--|--|
| 888.8 | Display value | | |
| V | Voltage | | |
| P | Power | | |
| F | Frequency | | |
| ାର୍ମ | Total run time | | |
| ⊠Hr | Remaining run time | | |
| × | Generator maintenance required | | |
| ~ | Low oil level | | |
| ¢ | CO Alert alarm | | |
| ECC | ECO mode (no load, low idle speed) | | |
| SELECT | Change to show the Voltage, Hertz, Power , Running hours and remaining running time. | | |
| матсн | When you need to change the remote control, you can use this button to match with generator. | | |
| RESET | Restore output after generator overloaded and clear maintenance icon flashing after the maintenance | | |

1.Location



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

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

Carbon Monoxide Alarm(s)

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





Prevent Carbon Monoxide (CO) Poisoning

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

20 ft. (6 m) min.





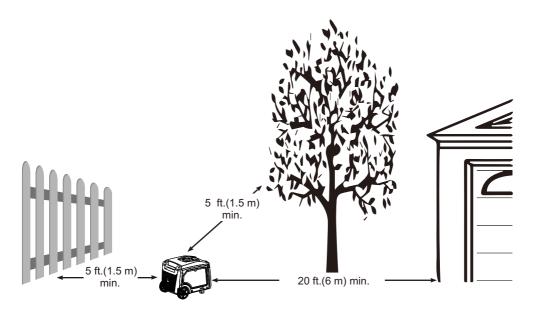
To better educate yourself about all carbon monoxide risks, go to www.takeyourgeneratoroutside.com.

Reduce Risk of Fire



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

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

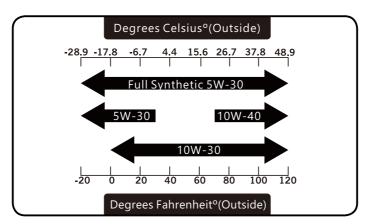


2. Oil and Gasoline

Add Engine Oil

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

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

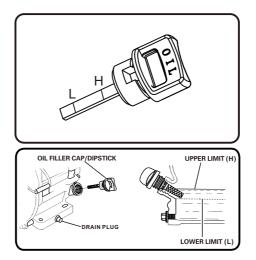


1. Place generator on a flat, level surface.

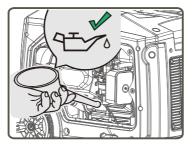
2.Loosen the cover screw and remove the maintenance cover.

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

4.Wipe dipstick clean.



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



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

7. Reinstall maintenance cover and tighten screws.

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

Low Oil Shutdown

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

Add Gasoline



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

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

Fuel must meet these requirements:

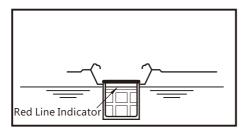
- Clean, fresh, unleaded gasoline with a minimum of 87 octane.
- For high altitude use, see Operation at High Altitude.
- Gasoline with no more than 10% ethanol is acceptable.



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

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

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





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

Operation at High Altitude

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

| | 322cc | Altitude |
|---------------------|-----------|---------------|
| Altitude main jet 1 | 355717002 | 3000-6000Feet |
| Altitude main jet 2 | 355717003 | 6000-8000Feet |

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

Operation at High Ambient conditions

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

3.Starting the Generator

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

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



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



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



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



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



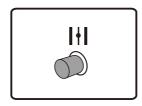
8. For recoil start only-Pull the starter cord slowly until resistance is felt and then pull rapidly to start engine.



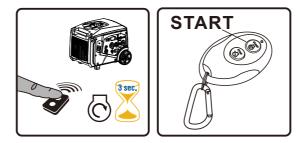
9. For electric start only-Flip the engine switch to the START (II) position for a few seconds and then release.



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



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



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

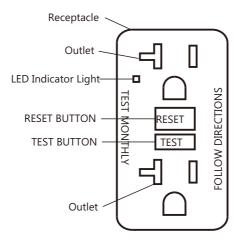
NOTICE If engine starts but fails to run, or if portable generator shuts down during operation, check oil level. See Low Oil Shutdown section for more information.

4. Connecting Electrical Loads

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

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

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



SELF-TEST OPERATION

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

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



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

- Damaged or overloaded extension cords could overheat, arc, and burn resulting death or serious injury.
- Use a ground fault circuit interrupter (GFCI) in any damp or highly conductive area, such as metal decking.
- Do not touch bare wires or receptacles.

- Do not use generator with electrical cords which are worn, frayed, bare or otherwise damaged.
- Do not operate generator in the rain or wet weather.
- Do not run indoors to avoid wet conditions.
- Do not handle generator or electrical cords while standing in water, while barefoot, or while hands or feet are wet.
- Use listed transfer switch to prevent backfeed by isolating generator from electric utility workers.

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

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



Surge Protection

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

CO Alert[™]

Carbon Monoxide (CO) Shutdown System

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

CO Alert DOES NOT replace carbon monoxide alarms.

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

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

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

Economy Control Switch

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



NOTICE:

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

12V DC Outlet (Battery Charger)

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

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

NOTICE

- For use with 12V direct current outlet, always keep the ECO mode deactivated (OFF Position).
- You can use the 12V direct current outlet and the 240V current at the same time, but keep the ECO mode deactivated (OFF Position) at all times.

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

WARNING!

- Storage batteries give off EXPLOSIVE hydrogen gas while charging. Do not allow smoking, open flames, sparks, or spark producing equipment in the area while charging.
- Battery electrolyte fluid is comprised of sulfuric acid that can be very dangerous and cause severe burns. Do not allow this fluid to contact eyes, skin, clothing, etc. If contact or spillage does occur, flush the area with water immediately.
- Do not continue to charge a battery that becomes hot or is fully charged.
- 1. Before connecting the battery charging cable to a battery that is installed in a vehicle, disconnect the vehicle battery ground cable from the negative (-) battery terminal.
- 2. Plug the battery charging cable into the DC receptacle of the generator.
- 3. Connect the red (+) battery charger lead to the red (+) battery terminal.
- 4. Connect the black (-) battery charger lead to the black (-) battery terminal.
- 5. Start the generator.

English

5. Stopping the generator

1. Turn off and remove all electrical loads.

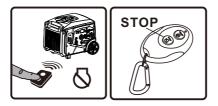
Never stop the generator with electrical devices plugged in and turned on.

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



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

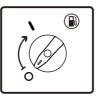
2. For remote start only-Push and release the "STOP" button on the remote control. The generator will be shut down.



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



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



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

Low Oil Shutdown

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

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

1.DO NOT try to restart the engine.

2. Contact an Authorized FIRMAN Service Dealer.

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

If oil level is below the LOW mark on dipstick:

1.Add oil to bring level to HIGH mark.

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

3.Contact an Authorized FIRMAN Service Dealer.

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

Do Not Overload Generator

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

1. Start the generator with no electrical load attached.

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

Overload Operation

The "P" light will blink when the load exceeds 5710W(approximately). If the load exceeds 6000W (approximately), the light will turn on and cut power to the receptacles in 10 seconds. If the load exceeds 6200W(approximately), the light will turn on and cut power to the receptacles in 2 seconds.

How to Correct

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

Parallel Operation

Any two FIRMAN 240V inverter generators with parallel ports, including two FIRMAN inverters model W05583 can be paralleled to increase the total available electrical power to 11000 Watts.

MAINTENANCE SCHEDULE

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

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

General Recommendations

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

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

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

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

When Transporting Generator

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

ENGINE MAINTENANCE

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

Change Engine Oil

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

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

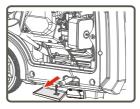


KEEP OUT OF REACH OF CHILDREN. DON'T POLLUTE. CONSERVE RESOURCES. RETURN USED OIL TO COLLECTION CENTERS.

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



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



(c) Remove yellow drain bolt.

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

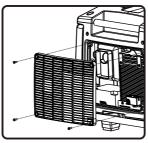
(e) Replace yellow drain bolt.

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

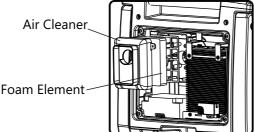
NOTICE We recommend using SAE 10W-30 API SJ or higher oil for best performance. Do not use special additives. See **Oil and Gasoline**

Air Filter Maintenance

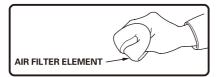
(a) Remove the air cleaner cover and locate the air filter plastic cover.



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



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



(d) Reinstall clean or new air filter element.

(e) Reattach the air filter cover.

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

Spark Plug Maintenance

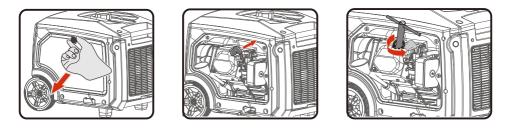
Changing the spark plug will help your engine start easier and run at peak performance.

27

(a) Remove the maintenance cover.

(b) Remove the spark plug boot.

(c) Remove spark plug using provided wrench.

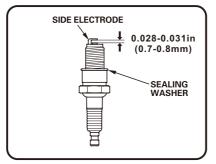


(d) Inspect spark plug for damage and clean with a wire brush before reinstalling. Replace if damaged.

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

(f) Seat spark plug in position and thread by hand to prevent cross threading.

(g) Tighten plug with provided wrench and put the spark plug boot back on spark plug. Do not overtighten.



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

Maintenance Valve Clearance

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

Muffler and Spark Arrester



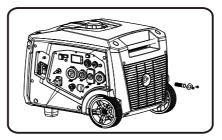
WARNING! Contact with muffler area could cause burns resulting in serious injury.

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

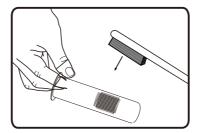
Inspect Muffler and Spark Arrester

1.Inspect the muffler for cracks, corrosion, or other damage.

2. Loosen the spark arrester clamp, remove the spark arrester cover, and remove the spark arrester with a thin blade screwdriver .



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



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

5. Position the spark arrester in the muffler and attach spark arrester cover with the screws.

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

GENERATOR MAINTENANCE

Run the generator at least 30 minutes every month.

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

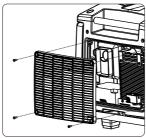
Do not expose the unit to excessive dust, dirt, moisture or corrosive vapors.

Do not insert any objects through cooling slots.

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

Battery Replacement

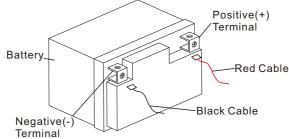
1. Unscrew the air cleaner cover by provided screwdriver.



2. Release the battery retaining rubber belt.

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

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



- 4. Remove the battery and recycle and dispose of properly.
- 5. Install the new battery with following specification:

12V lithium battery 1.6AH LXWXH:4.21X2.2X3.34 in. (107X56X85mm)

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

7. Reattach the air cleaner cover.

Battery Charging (USB-C)

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

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

Long Term Storage

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

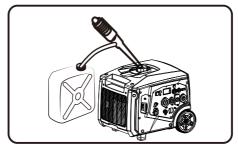
When the generator set is being stored for more than one month, follow these instructions to avoid engine problems:



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

Do not store fuel near any ignition sources.

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



1-Treat any stored fuel with fuel stabilizer.

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

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

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

7-Change oil .

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

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

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

Do not store gasoline from one season to another season.

| Troub | lesho | oting |
|-------|-------|-------|
|-------|-------|-------|

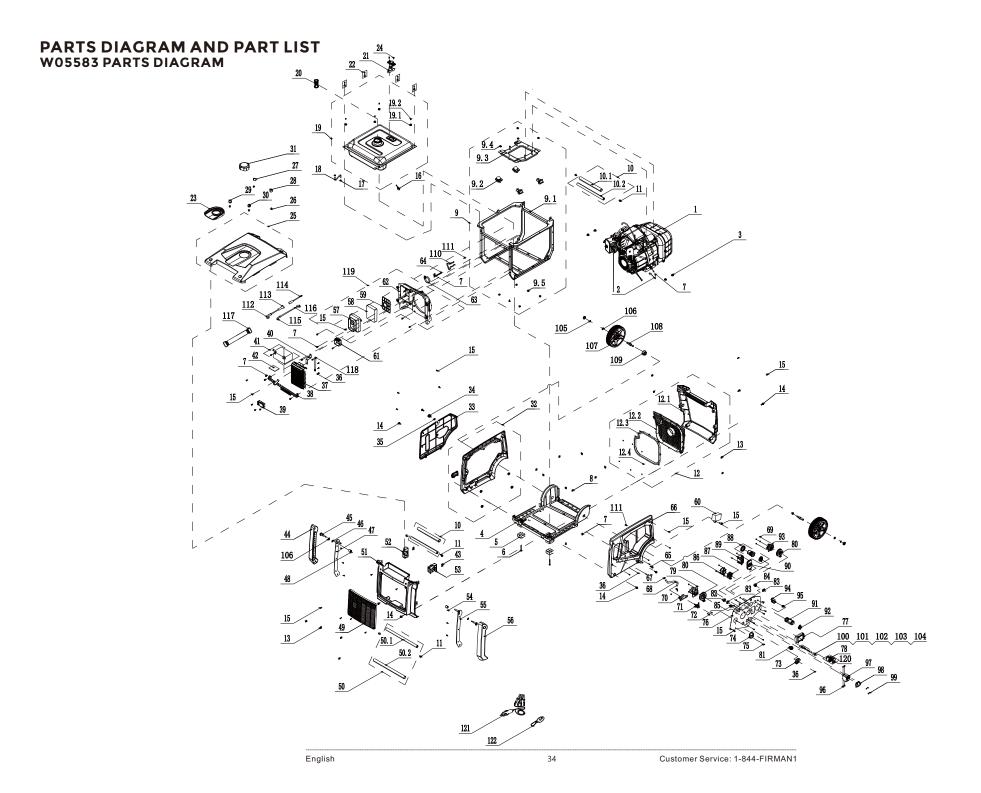
| Problem | Cause | Correction | |
|--|--|---|--|
| | 1. Circuit breaker is open. | 1. Reset circuit breaker. | |
| | 2. Fault in generator. | 2. Contact authorized service facility. | |
| Engine is running, but no AC output is available. | Poor connection or defective cord set. | 3. Check and repair. | |
| | 4. Connected device is bad. | Connect another device that is in good condition. | |
| | 1. Short circuit in a connected load. | 1. Disconnect shorted electrical load. | |
| Engine runs good at no-load but "bogs down" | 2. Engine speed is too slow. | 2. Contact authorized service facility. | |
| when loads are connected. | 3. Generator is overloaded. | 3. See Don't Overload Generator | |
| | 4. Shorted generator circuit. | 4. Contact authorized service facility. | |
| | 5. Clogged or dirty fuel filter. | 5. Clean or replace fuel filter. | |
| | 1. Engine switch set to OFF (O) position. | 1. Set engine switch to ON (I) position. | |
| | Fuel shutoff lever is in OFF (O) position. | Move fuel shutoff lever to ON (I) position. | |
| | 3. Low oil level. | Fill crankcase to proper level or place generator on level surface. | |
| | 4. Dirty air cleaner. | 4. Clean or replace air cleaner. | |
| Engine will not start; starts | 5. Out of fuel. | 5. Fill fuel tank. | |
| and runs rough or shuts down when running. | 6. Stale fuel. | Drain fuel tank and carburetor; fill with fresh fuel. | |
| | Spark plug wire not connected to spark plug. | 7. Connect wire to spark plug. | |
| | 8. Bad spark plug. | 8. Replace spark plug. | |
| | 9. Water in fuel. | Drain gas tank and carburetor; fill with fresh fuel. | |
| | 10. Flooded. | 10. Wait 5 minutes and re-crank engine. | |
| | 11. Excessively rich fuel mixture. | 11. Contact authorized service facility. | |
| | 12. Intake valve stuck open or closed. | 12. Contact authorized service facility. | |
| | 13. Engine has lost compression. | 13. Contact authorized service facility. | |
| | 14. Clogged or dirty fuel filter. | 14. Clean or replace fuel filter. | |
| Engine lacks power. | Load is too high. Dirty air filter. Clogged or dirty fuel filter. Clogged spark arrester. | Don't Overload Generator Replace air filter. Clean or replace fuel filter. Clean or replace spark arrester. | |
| Engine"hunts"or falters. | Carburetor is running too rich or too lean. Clogged or dirty fuel filter. | Contact authorized service facility. Clean or replace fuel filter. | |
| - | | | |
| Engine shuts down when running. | Out of fuel. Dirty air cleaner. Low oil level. | Fill fuel tank. Clean or replace air cleaner. Fill crankcase to proper level or place generator on level surface. | |
| Engine shuts down and yellow CO fault light blinking. | 1. CO system fault | 1. Contact authorized FIRMAN service facility. | |

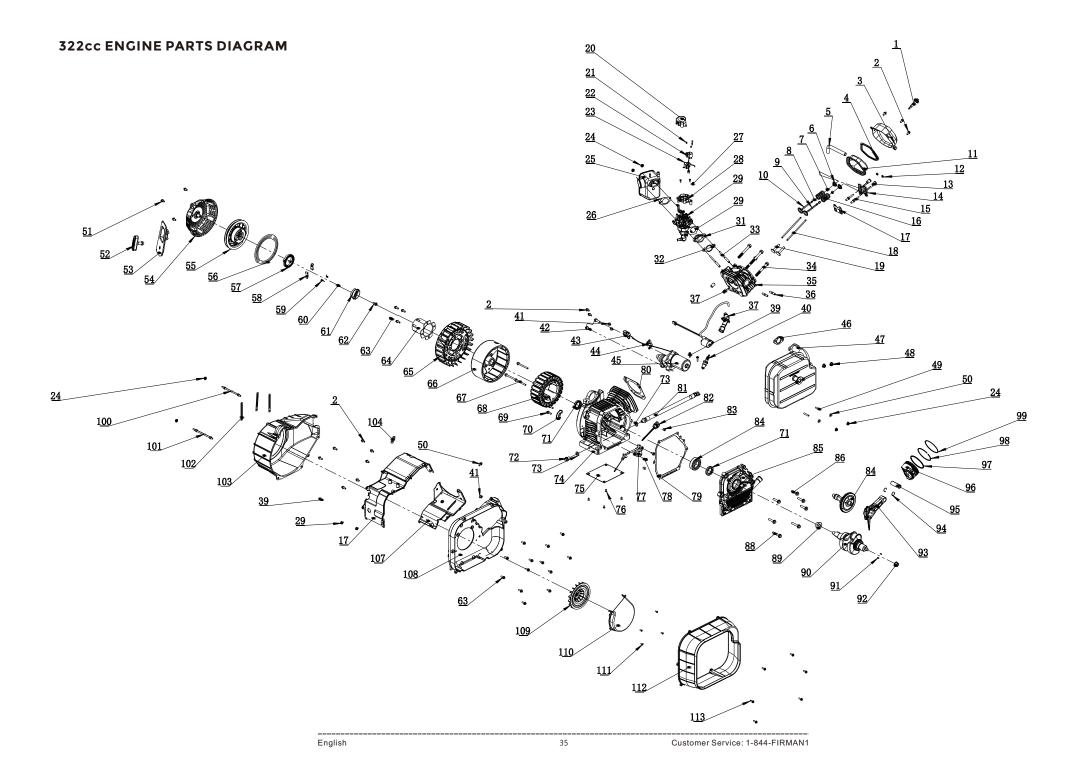
For all other issues, contact authorized dealer or Firman customer service.

SPECIFICATIONS

| Model | W05583 |
|--------------------------------|---|
| Starting Watts | 6850 |
| Running Watts* | 5500 |
| Rated AC Voltage | 120/240V |
| Rated Fequency | 60Hz |
| Phase | Single |
| Voltage Regulator | Digital |
| Power Factor | 1 |
| Total Harmonic Distortion(THD) | <3% |
| Alternator Type | Magneto Inductor |
| Engine | FIRMAN |
| Engine Type | Single Cylinder, 4-Stroke OHV Air Cooled |
| Displacement | 322cc |
| Low Oil Shutdown | Yes |
| Ignition System | Breakless Ignition Type, Flywheel Magneto |
| Starting System | Recoil/Electric/Remote |
| Fuel | Unleaded Automotive Gasoline |
| Capacity Fuel Tank | 5.3 U.S. Gallons (20L) |
| Lubricating Oil Capacity | 35.5 oz (1.05L) |
| Carburetor Type | Float |
| Air Cleaner | Polyurethane Type |
| P.T.O. Shaft Rotation | Counter Clockwise (Facing P.T.O.) |
| Oil Type | See "Add Engine Oil" Section |
| AC Grounding System | Neutral Bonded to Frame |

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





W05583 Portable Generator

| | Daut Muserland | Description | Otre | | Daut Mussala au | Description | |
|------|----------------|-----------------------------------|---------------|-----------|-----------------|------------------------------------|------|
| | Part Number | Description Engine Subassembly | Qty. 1 | NO. 38 | Part Number | Description Stents. Inverter | Qty. |
| 2 | | Ground Wire | $\frac{1}{1}$ | 39 | | CO Module | 1 |
| 3 | 357713531 | | 4 | 40 | | Clip Of Control Unit | 1 |
| 4 | 355728300 | | 1 | 41 | | Battery(1.6AH) | 1 |
| 5 | | Base Mounting | 2 | 42 | | Grommet, Battery | 1 |
| 6 | | Flange Bolt M6×55 | 2 | 43 | | Bolt M6×12 | 4 |
| 7 | | Flange Bolt M6×12 | 12 | 44 | | Left Handle Cover Plate | 1 |
| 8 | 333717014 | 3 | 8 | 44 | | Handle Bolt | 2 |
| 9 | | Frame Assy | 0 | 45 | | Washer(\u03.4x\u03.1x1) | 2 |
| 9.1 | 355418300 | | 1 | 40 | | Left Handle Support | 2 |
| | | | 4 | | | | 2 |
| | 355428300 | | | 48 | 355728314 | | |
| 9.3 | | Base Bracket | 1 | 49 | | Maintenance Window | 1 |
| 9.4 | 336718315 | | 8 | 50 | | Lower Handle Assy | 1 |
| 9.5 | 355718306 | | 2 | 50.1 | | Lower Handle | 1 |
| 10 | | Upper Handle Assy | 2 | | | Cover, Lower Handle | 1 |
| | | Upper Handle | 2 | 51 | | Left Cover Assy | 1 |
| | | Cover, Upper Handle | 2 | 52 | | Left Bracket, Handle | 1 |
| 11 | | Flange Bolt M8×16 | 6 | 53 | | Right Bracket, Handle | 1 |
| 12 | | Right Cover Assy | 1 | 54 | | Screw M5×14 | 6 |
| | | Cover, Right Side | 1 | 55 | | Right Handle Support | 1 |
| | | Cover, Right Muffler | 1 | 56 | | Right Handle Cover Plate | 1 |
| 12.3 | 355728329 | Rubber Seal Sleeve | 1 | 57 | | Case, Air Cleaner | 1 |
| 12.4 | 355718335 | Spring Leaf | 7 | 58 | | Element, Air Cleaner | 1 |
| 13 | 330713525 | Cage Nut M5 | 8 | 59 | 355728321 | Air Cleaner Element Supporter | 1 |
| 14 | 330713527 | Bolt M6×16 | 8 | 60 | | Charging Module | 1 |
| 15 | 355718304 | Screw&washer Assembly M5×14 | 29 | 61 | 355458303 | DC Module | 1 |
| 16 | 336713807 | Tank Fitting With Filter | 1 | 62 | 355728322 | Left Cover | 1 |
| 17 | 330713512 | Clip (φ8×6) | 2 | 63 | 355718320 | Clamp | 1 |
| 18 | 355728303 | Pipe | 1 | 64 | 330723528 | | 1 |
| 19 | 355418304 | Fuel Tank Assy | 1 | 65 | 333457016 | Switch, Choke | 1 |
| 19.1 | 355728330 | Grommet, Fuel Tank | 4 | 66 | 355728323 | Front Cover | 1 |
| 19.2 | 357713600 | Bushing | 4 | 67 | 330713508 | Clip (φ10.5×8) | 2 |
| 20 | 333427007 | Fuel Filter, Wire Mesh | 1 | 68 | 355728324 | Fuel Pipe, Fuel Tank To Fuel Valve | 1 |
| 21 | | Fuel Gauge Assy | 1 | 69 | 330713596 | · · · | 16 |
| 22 | | Bolt M6x20 | 4 | 70 | | Stents, Fuel Valve | 1 |
| 23 | | Fuel Guide Plate | 1 | 71 | 330713577 | | 1 |
| 24 | | Screw M5×14 | 2 | 72 | | Screw M5×20 | 2 |
| 25 | 355728305 | | 1 | 73 | | Fuel Valve Knob | 1 |
| 26 | 355718306 | · · · · | 4 | 74 | | Remote Holder | 1 |
| 27 | 355728306 | | 1 | 75 | | Screw M4x14 | 2 |
| 28 | 355728307 | | i | 76 | | Control Panel | 1 |
| | 355728308 | | 1 | 77 | | Multifunction Table | 1 |
| | 355728309 | | 1 | 78 | | Ignition Switch | 1 |
| 31 | | Fuel Tank Cap | 1 | 79 | | Receptacle 14-50R | 1 |
| 32 | | Rear Cover | 1 | 80 | | Outlet Cover TT-30R | 1 |
| 33 | | Protector , rear Cover | 1 | 81 | | Parallel Port | 1 |
| 34 | | Rear Cover Knob | 1 | 82 | | Economic Switch | 1 |
| | 355718308 | | 1 | | | Switch Cover | 2 |
| 35 | | | 8 | 83 | | | 2 |
| 36 | 336718383 | | - | 84 | | Battery Switch | |
| 37 | 355458304 | mverter | 1 | 85 | 336755002 | Indicator Light | 1 |

Parts Diagrams - Parts Lists - Wiring Diagram

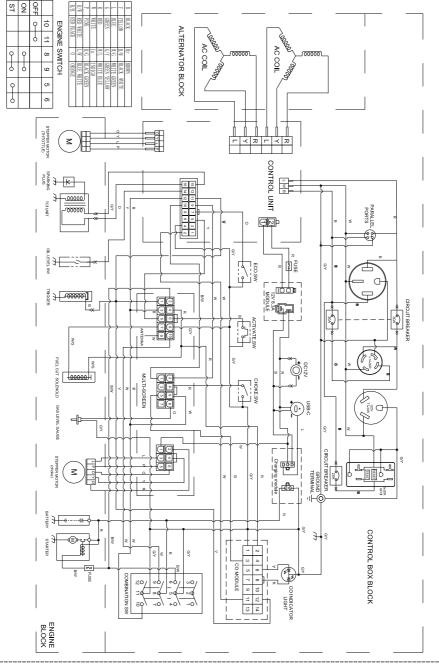
| NO | Part Number | Description | Qty. | NO | Part Number | Description | Qty |
|-----------|-------------|------------------------------|------------|----------|-------------|-------------|-----|
| NO. 86 | | Receptacle L14-30R | 1 | NO. | Part Number | Description | |
| 87 | | Outlet Cover L5-30R | 1 | | | | _ |
| 88 | 355718325 | | 1 | | | | |
| 89 | | | 1 | | | | |
| | | Receptacle GFCI | 1 | | | | |
| 90 | | Outlet Cover 5-20R GFCI | | | | | |
| 91 | | Cigar Lighter | 1 | | | | |
| 92 | | Outlet Cover | 1 | | | | _ |
| 93 | | Receptacle TT-30R | 1 | | | | |
| 94 | | A.C 20A Breaker, Push Button | 1 | | | | |
| 95 | | Circuit Breaker Cover | 1 | | | | |
| 96 | | Screw&washer Assy M4×8 | | | | | |
| 97 | | Circuit Breaker Amp 30A | 1 | | | | |
| | 392758302 | | 1 | | | | |
| 99 | | Screw&washer Assy M3×6 | | | | | |
| | | Bolt M6×22 | 1 | | | | |
| | 357713543 | | 2 | | | | |
| | | Lock Washer Ø6 | 2 | | | | |
| 103 | | Flat Washer Ø6 | 2 | | | | |
| 104 | | External Star Washer Ø6 | 1 | | | | |
| 105 | 330713584 | Retaing Ring Φ12 | 2 | | | | |
| 106 | 330713585 | Washer Ф12 | 4 | | | | |
| 107 | 355728326 | Wheel | 2 | | | | |
| 108 | 355718328 | Axle Comp | 2 | | | | |
| 109 | 355718385 | Nut M10x1.25 | 2 | | | | |
| 110 | 355718329 | Pipe Clamp | 1 | | | | |
| 111 | 355718330 | Screw M6×12 | 2 | | | | |
| 112 | 357713571 | Sheath, Connecter Black | 1 | | | | |
| 113 | 336713693 | Battery Cable(female 180mm) | 1 | | | | |
| 114 | 336713692 | Battery Cable(male 120mm) | 1 | | | | |
| 115 | 336713611 | | 1 | | | | |
| 116 | 355718383 | Battery Cable(red 900mm) | 1 | | | | |
| 117 | 355728327 | Battery Voltage Strip | 1 | | | | |
| | | Ground Wire | 1 | | | | |
| | | Air Filter Assembly | 1 | | | | |
| | | Switch Cover | 1 | | | | |
| | | 12V DC Charge Cable | 1 | | | | |
| | | Remote Control | 1 | | | | _ |
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FIRMAN 322cc Engine

| NO. Part Number Description QRV. 1 3557123527 cerrojo 1 2 355718336 Perno M&x12 9 3 355728331 cuardia.cyl. Cubierta de cabeza 1 4 357723525 Junta de la tapa del cilindro 1 5 355718337 Ret, resorte de válvula 2 7 355718338 Bloquear clip, Válvula 2 9 355718339 Válvula, exhaust 1 10 355718340 Válvula, exhaust 1 11 355718340 Válvula, exhaust 2 13 330723565 Tuerca, bloqueo de válvula 2 14 355718340 Brazo, balancín de válvula 2 17 355728334 Placa de guía, varilla de empuje 1 18 355718376 Tornillo M3×6 4 21 355718376 Tornillo M3×6 4 22 3557283350 Stepper Motor, Throttle Valve 1 23 355718376 Torni | | | | 01 |
|--|-----|-------------|----------------------------------|------|
| 2 355718336 Perno Méx12 9 3 355728331 Cuardia, cyl. Cubierta de cabeza 1 4 357723525 Junta de la tapa del cilindro 1 6 355718337 Ret, resorte de válvula 2 7 355728333 Sello de aceite, válvula 2 8 355718339 Válvula, exhaust 1 10 355718340 Válvula, exhaust 1 11 355718340 Válvula, exhaust 1 11 355718340 Válvula, exhaust 1 11 355718340 Válvula, exhaust 2 13 330723565 Tuerca, bloqueo de válvula 2 14 355718340 Brazo, balancín de válvula 2 15 336723535 Muelle, válvula 2 2 16 355718341 Varilla de empuje 1 1 18 355718345 Cubierta, motor paso a paso 1 21 355728350 Stepper Motor, Throttle Valve 1 23 </td <td>NO.</td> <td>Part Number</td> <td>Description</td> <td>Qty.</td> | NO. | Part Number | Description | Qty. |
| 3 355728331 Cuardia, cyl. Cubierta de cabeza 1 4 357723525 Junta de la tapa del cilindro 1 5 355728332 Tubo de respiración 1 6 355718337 Ret., resorte de válvula 2 7 355718338 Bloquear clip. Válvula 2 9 355718339 Válvula, achnisión 1 10 355718340 Válvula, achnisión 1 11 355728348 Cover Subassembly, Cylinder Head 1 12 330723564 Tuerca de ajuste, válvula 2 13 330723564 Tuerca de ajuste, válvula 2 16 357728334 Placa de guía, varilla de empuje 1 18 3557183476 Tornillo M3×6 4 22 355728335 Subper Motor, Throttle Valve 1 13 3557183476 Tornillo M3×6 4 22 355728350 Stepper Motor, Throttle Valve 1 23 3557183476 Tornillo M4×12 3 24 <td></td> <td></td> <td></td> <td></td> | | | | |
| 4 357723525 Junta de la tapa del cilindro 1 5 355728332 Tubo de respiración 1 6 355718337 Ret., resorte de válvula 2 7 355728333 Sello de aceite, válvula 2 8 355718339 Válvula, exhaust 1 10 355718340 Válvula, admisión 1 11 355728348 Cover Subassembly, Cylinder Head 1 12 330723564 Tuerca, bloqueo de válvula 2 13 300723565 Tuerca, bloqueo de válvula 2 14 355718340 Brazo, balancín de válvula 2 15 336723535 Muelle, válvula 2 17 355718341 Varilla de empuje 1 18 355718342 Elevador de válvulas 2 20 355728336 Cubierta, motor paso a paso 1 21 355718347 Tornillo M3×6 4 22 355728349 Gai, filtro de aire comp. 1 23 3554 | | | | |
| 5 355728332 Tubo de respiración 1 6 355718337 Ret., resorte de válvula 2 7 355728333 Sello de aceite, válvula 2 8 355718338 Bloquear clip. Válvula 2 9 355718339 Válvula, exhaust 1 10 355718340 Válvula, exhaust 1 11 355728348 Cover Subassembly, Cylinder Head 1 12 330723564 Tuerca, bloqueo de válvula 2 14 355718380 Brazo, balancín de válvula 2 15 336723537 Perno, balancín 2 16 357723535 Muelle, válvula 2 17 355718341 Varilla de empuje 2 19 355718342 Elevador de válvulas 2 20 355728350 Stepper Motor, Throttie Valve 1 23 355428306 Motor paso a paso, estrangulador 1 24 336713517 Turerca M6 6 25 355428306 | | | | |
| 6 355718337 Ret., resorte de válvula 2 7 355728333 Sello de aceite, válvula 2 8 355718338 Bioquear clip. Válvula 2 9 355718339 Válvula, avhaust 1 10 355718339 Válvula, avhaust 1 11 355718340 Válvula, avhaust 2 13 30723564 Tuerca de ajuste, válvula 2 14 355718380 Brazo, balancín de válvula 2 15 336723537 Perno, balancín 2 16 357728334 Placa de guía, varilla de empuje 1 18 355718341 Varilla de empuje 2 20 355718341 Varilla de empuje 2 21 355718341 Varilla de are comp. 1 23 355458306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire 1 27 355718343 Ju | | | | |
| 7 355728333 Sello de aceite, válvula 2 8 355718338 Bloquear clip. Válvula 2 9 355718339 Válvula, exhaust 1 10 355718340 Válvula, admisión 1 11 355728348 Cover Subassembly, Cylinder Head 1 12 330723564 Tuerca de ajuste, válvula 2 13 330723564 Tuerca de ajuste, válvula 2 14 355718340 Brazo, balancín de válvula 2 16 357723535 Muelle, válvula 2 17 355718341 Varilla de empuje 2 18 355718342 Elevador de válvulas 2 20 355728350 Stepper Motor, Throttle Valve 1 23 355748306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 24 355718343 Junta, carburador. 1 30 35571 | | | Tubo de respiración | |
| 8 355718338 Bloquear clip. Válvula 2 9 355718339 Válvula, exhaust 1 10 355718340 Válvula, admisión 1 11 355728348 Cover Subassembly, Cylinder Head 1 12 330723565 Tuerca de ajuste, válvula 2 14 355718380 Brazo, balancín de válvula 2 15 336723537 Perno, balancín 2 16 357723535 Muelle, válvula 2 17 355728334 Placa de guía, varilla de empuje 1 18 355718341 Varilla de empuje 2 19 355718341 Varilla de empuje 2 21 355728350 Stepper Motor, Throttie Valve 1 23 355458306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire 1 27 355718343 Junta, carburador. 1 31 355718343 | | | | |
| 9 355718339 Válvula, e×haust 1 10 355718340 Válvula, admisión 1 11 355728348 Cover Subassembly, Cylinder Head 1 12 330723565 Tuerca, bloqueo de válvula 2 13 330723564 Tuerca de ajuste, válvula 2 14 355718380 Brazo, balancín de válvula 2 15 336723537 Perno, balancín 2 16 357723535 Muelle, válvula 2 17 355718344 Varilla de empuje 2 19 355718342 Elevador de válvulas 2 20 355728336 Cubierta, motor paso a paso 1 21 355718347 Tornillo M3×6 4 22 355428306 Caja, filtro de aire comp. 1 23 355458306 Motor paso a paso, estrangulador 1 24 336718343 Junta, carburador. 1 27 355718343 Junta, carburador. 1 31 355718343 <td>7</td> <td>355728333</td> <td>Sello de aceite, válvula</td> <td>2</td> | 7 | 355728333 | Sello de aceite, válvula | 2 |
| 10 355718340 Vákula, admisión 1 11 355728348 Cover Subassembly, Cylinder Head 1 12 330723565 Tuerca, bloqueo de válvula 2 13 330723564 Tuerca, belancín de válvula 2 14 355718380 Brazo, balancín de válvula 2 15 336723537 Perno, balancín 2 16 357723535 Muelle, válvula 2 17 355728334 Placa de guía, varilla de empuje 2 19 355718341 Varilla de empuje 2 20 355728335 Cubierta, motor paso a paso 1 21 355718347 Tornillo M3×6 4 22 355728350 Stepper Motor, Throttle Valve 1 23 355458306 Cator paso a paso, estrangulador 1 24 336718377 Tornillo M4x12 3 28 355728336 Soporte de motor paso a paso 1 29 355418307 Austa, carburador. 1 31 | 8 | 355718338 | Bloquear clip. Válvula | 2 |
| 11 355728348 Cover Subassembly, Cylinder Head 1 12 330723565 Tuerca, bloqueo de válvula 2 13 330723564 Tuerca de ajuste, válvula 2 14 355718380 Brazo, balancín de válvula 2 15 336723537 Perno, balancín 2 16 357728334 Placa de guía, varilla de empuje 1 18 355718341 Varilla de empuje 2 19 355778335 Cubierta, motor paso a paso 1 21 355728350 Stepper Motor, Throttle Valve 1 23 355458306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355728349 Cakt, Purificador de aire 1 27 355718343 Junta, carburador. 1 30 355718343 Junta, aislante 1 31 355718344 Junta, aislante 1 33 <td>9</td> <td>355718339</td> <td>Válvula, e×haust</td> <td>1</td> | 9 | 355718339 | Válvula, e×haust | 1 |
| 12 330723565 Tuerca, bloqueo de válvula 2 13 330723564 Tuerca de ajuste, válvula 2 14 355718380 Brazo, balancín de válvula 2 15 336723537 Perno, balancín 2 16 357723535 Muelle, válvula 2 17 355728334 Placa de guía, varilla de empuje 2 19 355718341 Varilla de empuje 2 20 355728335 Cubierta, motor paso a paso 1 21 355718376 Tornillo M3×6 4 22 355728330 Stepper Motor, Throttie Valve 1 23 355748306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355728337 Aislante, carburador 1 30 355718343 Junta, aislante 1 31 355718343 Junta, aislante 1 32 355718344 <td>10</td> <td>355718340</td> <td>Válvula, admisión</td> <td>1</td> | 10 | 355718340 | Válvula, admisión | 1 |
| 13 330723564 Tuerca de ajuste, válvula 2 14 355718380 Brazo, balancín de válvula 2 15 336723537 Perno, balancín 2 16 357723535 Muelle, válvula 2 17 355728334 Placa de guía, varilla de empuje 2 18 355718342 Elevador de válvulas 2 20 355728335 Cubierta, motor paso a paso 1 21 355728350 Stepper Motor, Throttle Valve 1 23 355458306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 24 336773837 Tornillo M4x12 3 28 355728336 Soporte de motor paso a paso 1 29 355418306 Carburador, Assy. 1 30 355718343 Junta, carburador. 1 31 355728337 Aislante, carburador. 1 32 3 | 11 | 355728348 | Cover Subassembly, Cylinder Head | 1 |
| 13 330723564 Tuerca de ajuste, válvula 2 14 355718380 Brazo, balancín de válvula 2 15 336723537 Perno, balancín 2 16 357723535 Muelle, válvula 2 17 355728334 Placa de guía, varilla de empuje 1 18 355718341 Varilla de empuje 2 19 355718342 Elevador de válvulas 2 20 355728335 Stepper Motor, Throttle Valve 1 23 355728350 Stepper Motor, Throttle Valve 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 24 3367713517 Tuerca M6 6 25 355428306 Soporte de motor paso a paso 1 29 355418306 Carburador, Assy. 1 30 355718343 Junta, carburador. 1 31 355718345 Perno de perno (M6×M8×110) 2 34 355718345 <td>12</td> <td>330723565</td> <td>Tuerca, bloqueo de válvula</td> <td>2</td> | 12 | 330723565 | Tuerca, bloqueo de válvula | 2 |
| 14 355718380 Brazo, balancín de válvula 2 15 336723537 Perno, balancín 2 16 357723535 Muelle, válvula 2 17 355728334 Placa de guía, varilla de empuje 1 18 355718342 Elevador de válvulas 2 20 355728335 Cubierta, motor paso a paso 1 21 355718376 Tornillo M3×6 4 22 355728350 Stepper Motor, Throttle Valve 1 23 355458306 Motor paso a paso, estrangulador 1 24 336718517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355728337 Aislante 1 30 355718343 Junta, carburador. 1 31 355728337 Aislante, carburador. 1 32 355418306 Carjurador, Assy. 1 33 355718343 Junta, aislante 1 33 355718344 Davto | 13 | | | 2 |
| 15 336723537 Perno, balancín 2 16 357723535 Muelle, válvula 2 17 355728334 Placa de guía, varilla de empuje 1 18 355718341 Varilla de empuje 2 19 355718342 Elevador de válvulas 2 20 355728335 Cubierta, motor paso a paso 1 21 355718376 Tornillo M3×6 4 22 355728350 Stepper Motor, Throttle Valve 1 23 355458306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355718349 Skt, Purificador de aire 1 27 355718343 Junta, arburador 1 31 355718343 Junta, aislante 1 33 355718344 Junta, aislante 1 33 355718345 Perno de perno (M8×35) 2 37 355718349 P | | | | |
| 16 357723535 Muelle, válvula 2 17 355728334 Placa de guía, varilla de empuje 1 18 355718341 Varilla de empuje 2 19 355718342 Elevador de válvulas 2 20 355728335 Cubierta, motor paso a paso 1 21 355718376 Tornillo M3×6 4 22 355728350 Stepper Motor, Throttle Valve 1 23 355458306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355728336 Soporte de motor paso a paso 1 29 355718343 Junta, araburador. 1 31 355718343 Junta, aislante 1 33 355718344 Junta, aislante 1 33 355718345 Perno de perno (M8×35) 2 34 355718347 Perno de perno (M8×35) 2 34 355718344 | | | | |
| 17 355728334 Placa de guía, varilla de empuje 1 18 355718341 Varilla de empuje 2 19 355718342 Elevador de válvulas 2 20 355728335 Cubierta, motor paso a paso 1 21 355718376 Tornillo M3×6 4 22 3557283350 Stepper Motor, Throttle Valve 1 23 355428306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355728349 Cskt, Purificador de aire 1 27 355718343 Junta, carburador 1 30 355718343 Junta, carburador. 1 31 355718344 Junta, aislante 1 32 355718344 Junta, aislante 1 33 355718347 Perno de perno (M8×35) 2 34 355718347 Perno M8×25 2 40 330723001 <td< td=""><td></td><td></td><td></td><td></td></td<> | | | | |
| 18 355718341 Varilla de empuje 2 19 355718342 Elevador de válvulas 2 20 355728335 Cubierta, motor paso a paso 1 21 355718376 Tornillo M3×6 4 22 355728350 Stepper Motor, Throttle Valve 1 23 355458306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355728349 Cskt, Purificador de aire 1 27 355718347 Tornillo M4x12 3 28 355728336 Soporte de motor paso a paso 1 30 355718343 Junta, carburador 1 31 355718343 Junta, aislante 1 33 355718344 Junta, aislante 1 33 355718345 Perno de perno (M6×M8×110) 2 34 355718347 Perno M8×25 2 37 357723544 Dawl | | | | |
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| 20 355728335 Cubierta, motor paso a paso 1 21 355718376 Tornillo M3×6 4 22 355728350 Stepper Motor, Throttle Valve 1 23 355458306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355728349 Cskt, Purificador de aire 1 27 355718377 Tornillo M4x12 3 28 355728336 Soporte de motor paso a paso 1 29 355418306 Carburador, Assy. 1 30 355718343 Junta, carburador. 1 31 355718344 Junta, aislante 1 33 355718345 Perno de perno (M6×M8×10) 2 34 355718347 Perno de perno (M8×35) 2 37 357723544 Davl Pin 2 38 355458307 Assy de encendido. 1 39 355718347 Pe | | | | |
| 21 355718376 Tornillo M3×6 4 22 355728350 Stepper Motor, Throttle Valve 1 23 355458306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355728336 Soporte de aire 1 27 355718377 Tornillo M4x12 3 28 355728336 Soporte de motor paso a paso 1 29 355418306 Carburador, Assy. 1 30 355718343 Junta, arburador 1 31 355718344 Junta, aislante 1 33 355718345 Perno de perno (M6×M8×110) 2 34 355718347 Culata Comp. 1 33 355718347 Perno de perno (M8×35) 2 37 357723544 Dawl Pin 2 2 38 355458307 Assyde encendido. 1 1 39 355718347 | | | | |
| 22 355728350 Stepper Motor ,Throttle Valve 1 23 355458306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355728349 Cskt, Purificador de aire 1 27 355718347 Tornillo M4x12 3 28 355728336 Soporte de motor paso a paso 1 29 355418306 Carburador, Assy. 1 30 355718343 Junta, carburador 1 31 355728337 Aislante, carburador. 1 33 355718343 Junta, aislante 1 33 355718344 Junta, aislante 1 33 355718345 Perno de perno (M8×M8×110) 2 34 355718346 Cerrojo 4 35 355418307 Assyde encendido. 1 39 355718347 Perno M8×35 2 40 330723001 Bujía | | | | |
| 23 355458306 Motor paso a paso, estrangulador 1 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355728349 Cskt, Purificador de aire 1 27 355718377 Tornillo M4x12 3 28 355728336 Soporte de motor paso a paso 1 29 355418306 Carburador, Assy. 1 30 355718343 Junta, carburador 1 31 355728337 Aislante, carburador. 1 32 355718343 Junta, aislante 1 33 355718344 Junta, aislante 1 33 355718345 Perno de perno (M6×M8×110) 2 34 355418307 Culata Comp. 1 36 355418307 Culata Comp. 1 36 355418307 Assy de encendido. 1 39 355718347 Perno M5×20 2 40 330723001 Bujía 1 | | | | |
| 24 336713517 Tuerca M6 6 25 355428306 Caja, filtro de aire comp. 1 26 355728349 Gskt, Purificador de aire 1 27 355718377 Tornillo M4x12 3 28 355728336 Soporte de motor paso a paso 1 29 355418306 Carburador, Assy. 1 30 355718343 Junta, carburador 1 31 355728337 Aislante, carburador. 1 32 355718344 Junta, aislante 1 33 355718345 Perno de perno (M6×M8×110) 2 34 355718345 Perno de perno (M8×M8×110) 2 35 355418307 Culata Comp. 1 36 36723539 Perno M8×25 2 37 357723544 Dawl Pin 2 38 355458307 Assy de encendido. 1 39 355718347 Perno M8×25 2 40 330723001 Bujía 1 < | | | | |
| 25 355428306 Caja, filtro de aire comp. 1 26 355728349 Cskt, Purificador de aire 1 27 355718377 Tornillo M4x12 3 28 355728336 Soporte de motor paso a paso 1 29 355418306 Carburador, Assy. 1 30 355718343 Junta, carburador 1 31 355728337 Aislante, carburador 1 32 355718344 Junta, carburador. 1 33 355718345 Perno de perno (M6×M8×110) 2 34 355718346 Cerrojo 4 35 355418307 Culata Comp. 1 36 355718347 Perno M5×20 2 37 357723544 Dawl Pin 2 38 355458307 Assy de encendido. 1 39 355718347 Perno M5×20 2 40 30723001 Bijía 1 41 355718348 Perno M6×8 5 | | | | |
| 26 355728349 Cskt, Purificador de aire 1 27 355718377 Tornillo M4x12 3 28 355728336 Soporte de motor paso a paso 1 29 355418306 Carburador, Assy. 1 30 355718343 Junta, carburador 1 31 355718343 Junta, carburador. 1 32 355718344 Junta, aislante 1 33 355718345 Perno de perno (M6×M8×10) 2 34 355718346 Cerrojo 4 35 355418307 Culata Comp. 1 36 36723539 Perno de perno (M8×35) 2 37 357718347 Perno M5×20 2 40 330723001 Bujía 1 41 355718347 Perno M6×8 5 42 355718348 Perno M6×8 5 43 355458308 Gatillo Assy 1 44 355718378 Tuerca M8 2 43 | | | | - |
| 27 355718377 Tornillo M4x12 3 28 355728336 Soporte de motor paso a paso 1 29 355418306 Carburador, Assy. 1 30 355718343 Junta, carburador, Assy. 1 31 355718343 Junta, carburador. 1 32 355718344 Junta, aislante, carburador. 1 33 355718345 Perno de perno (M6×M8×110) 2 34 355718346 Cerrojo 4 35 355418307 Culata Comp. 1 36 336723539 Perno de perno (M8×35) 2 37 357723544 Dawl Pin 2 3 38 355458307 Assy de encendido. 1 1 39 355718347 Perno M5×20 2 2 40 330723001 Bujía 1 1 41 355718348 Perno M6×8 5 42 355718348 Perno M6×8 5 43 355458308 | | | | |
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| 38 355458307 Assy de encendido. 1 39 355718347 Perno M5×20 2 40 330723001 Bujía 1 41 355718349 Perno M6×8 5 42 355718348 Perno M6×8 5 42 355718348 Perno M6×25 2 43 355458308 Gatillo Assy 1 44 355718350 Soporte, gatillo 1 45 355458309 Motor de arranque 1 46 355728338 Junta del silenciador 1 47 355418308 Conjunto del silenciador 1 48 355718378 Tuerca M8 2 49 355718378 Tuerca M8 2 49 355718351 Perno M6×10 3 52 355718351 Perno M6×10 3 53 355728350 Guia, Cuerda 1 54 355428307 Agare, Arrancador 1 53 355728350 G | 36 | 336723539 | Perno de perno (M8×35) | 2 |
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| 40 330723001 Bujía 1 41 355718349 Perno M6×8 5 42 355718348 Perno M8×25 2 43 355458308 Gatillo Assy 1 44 355718350 Soporte, gatillo 1 44 355718350 Soporte, gatillo 1 45 355458309 Motor de arranque 1 46 355728338 Junta del silenciador 1 47 355418308 Conjunto del silenciador 1 48 355718378 Tuerca M8 2 49 355718381 Perno de perno (M6×32) 2 50 355718351 Perno M6×10 3 52 355428307 Agare, Arrancador 1 53 355728350 Guía, Cuerda 1 54 355418313 Case Comp. Recoil Starter 1 55 355718352 Carrete de arranque de retroceso 1 56 393723006 Cuerda 1 | 38 | 355458307 | Assy de encendido. | 1 |
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| 42 355718348 Perno M8×25 2 43 355458308 Catillo Assy 1 44 355718350 Soporte, gatillo 1 45 355458309 Motor de arranque 1 46 355728338 Junta del silenciador 1 47 355418308 Conjunto del silenciador 1 48 355718308 Conjunto del silenciador 1 48 355718378 Tuerca M8 2 49 355718381 Perno de perno (M6×32) 2 50 355718382 Junta de soporte del silenciador 2 51 355718351 Perno M6×10 3 3 52 355728350 Guía, Cuerda 1 53 355718313 Case Comp., Recoil Starter 1 54 355718352 Carrete de arranque de retroceso 1 55 355718352 Carrete de arranque de retroceso 1 | 40 | 330723001 | Bujía | 1 |
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| 44 355718350 Soporte, gatillo 1 45 355458309 Motor de arranque 1 46 355728338 Junta del silenciador 1 47 355418308 Conjunto del silenciador 1 48 355718378 Tuerca M8 2 49 355718378 Tuerca M8 2 50 355718381 Perno de perno (M6×32) 2 50 355718351 Perno M6×10 3 52 355728350 Qarre, Arrancador 1 53 355728350 Guía, Cuerda 1 54 355428313 Case Comp., Recoil Starter 1 55 355718352 Carrete de arranque de retroceso 1 56 393723006 Cuerda 1 | | | Gatillo Assy | |
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| 56 393723006 Cuerda 1 | | | | |
| | | | | |
| 5/ 35/ 2350 Muelle de arranque de retroceso | | | | |
| | 5/ | 351123580 | | |

| NO. Part Number Description 58 330723520 Trinquete, Entrante 59 330723521 Primavera, trinquete 60 330723519 Primavera, Cuía de trinquete 61 330723518 Cuía de viajes a Pawl 62 255718252 Tamillo quía de viajes a Pawl | Qty. 2 |
|--|-----------|
| 59 330723521 Primavera, trinquete 60 330723519 Primavera, Cuía de trinquete 61 330723518 Cuía de viajes a Pawl | 2 |
| 60 330723519 Primavera, Guía de trinquete 61 330723518 Guía de viajes a Pawl | |
| 61 330723518 Guía de viajes a Pawl | 2 |
| | 1 |
| 62 255710252 Tawaiti | 1 |
| 62 355718353 Tornillo, guía de trinquete | 1 |
| 63 355718354 Perno M6×16 | 22 |
| 64 355718355 Polea, Arrancador | 1 |
| 65 355728339 Ventilador | 1 |
| 66 355458310 Rotor Assy | 1 |
| 67 355718382 Bolt M6×60 | 3 |
| 68 355458311 Estator Assy | 1 |
| 69 355718356 Perno M6×20 | 2 |
| 70 355728340 Guardia, Arnés | 1 |
| | |
| 71 355728341 Sello de aceite | 2 |
| 72 357723501 Perno, tapón de drenaje | 1 |
| 73 357723502 Arandela, Perno de drenaje | 2 |
| 74 355718358 Comp del cárter | 1 |
| 75 355718359 Cuardia, caja de manivela, parte inferio | |
| 76 336713546 Tornillo M5x10 | 4 |
| 77 355728351 Oil Level Switch | 1 |
| 78 336723526 Perno M6×15 | 2 |
| 79 355718362 Junta del cárter | 1 |
| 80 355718357 Junta, cilindro | 1 |
| 81 355428308 Drenaje rápido de aceite | 1 |
| 82 355428309 Conjunto de varilla de medición de aceita | |
| 83 355718361 Dawl Pin | 2 |
| 84 355718363 Rodamiento radial de bolas | 1 |
| 85 355718360 Cubierta del cárter | 1 |
| 86 357713584 Perno M8×35 | 5 |
| 87 355418310 Compuesto por árbol de levas | |
| | 2 |
| | |
| 89 357723571 Tuerca M16 | 1 |
| 90 355418311 Crank Comp | 1 |
| 91 355718364 Dawl Pin | 2 |
| 92 355718379 Tuerca M12 | 1 |
| 93 355418312 Biela Assy. | 1 |
| 94 355718366 Clip de pasador de pistón | 2 |
| 95 355718367 Pin de pistón | 1 |
| 96 355718368 Pistón | 1 |
| 97 355718369 Bobina de anillo | 1 |
| 98 355718370 Anillo, segundo pistón | 1 |
| 99 355718371 Anillo, primer pistón | 1 |
| 100 355718365 Perno de perno | 1 |
| 101 355718372 Perno de perno | 1 |
| 102 330723528 Clip de alambre | 3 |
| 103 355728342 Cubierta del ventilador | 1 |
| 104 355718373 Orejetas de elevación | 1 |
| 105 355728343 Guardia, Superior | 1 |
| | 1 |
| | |
| 101 0001 200 1 1 | 1 |
| 108 355728345 Guardia, Muff., espalda | 1 |
| 109 355728346 Extractor | 1 |
| 110 355718374 Cubierta, extractor | 1 |
| 111 317713550 Tornillo, M4×10 | 4 |
| 112 355728347 Guardia, Muff., frente | 1 |
| 113 355718375 Perno M5×16 | 6 |
| | |

Wiring Diagram



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

HOW TO ORDER REPLACEMENT PARTS

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

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

FIRMAN Three (3) Year Limited Warranty

Warranty Qualifications

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



Repair/Replacement Warranty

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

Do Not Return the Unit to the Place of Purchase

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

Warranty Exclusions

This warranty does not cover the following repairs and equipment.

Normal Wear

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

Installation, Use and Maintenance

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

Other Exclusions

This warranty excludes:

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

Limits of Implied Warranty and Consequential Damage

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

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

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

Contact Information

You may contact FIRMAN at:

Address

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

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

FIRMAN POWER EQUIPMENT INC. Emission Control System Warranty

CALIFORNIA AND FEDERAL EXHAUST AND EVAPORATIVE EMISSIONS CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board, US Environmental Protection Agency ("US EPA") and FIRMAN POWER EQUIPMENT INC.(FIRMAN) are pleased to explain the emissions control systems warranty on your 2023-2024 or later Small Off-Road Engine ("SORE") and engine powered equipment. In California, new equipment that use small off-road engines must be designed, built and equipped to meet the State's stringent anti-smog standards. FIRMAN must warrant the emissions control systems on your SORE and engine powered equipment for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your small off-road engine or equipment leading to the failure of the emissions control system. Your emissions control system may include parts such as the carburetor or fuel-injection system, the ignition system, catalytic components. Also included may be hoses, belts, connectors, and other emission-related assemblies.

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

MANUFACTURER'S WARRANTY COVERAGE:

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

OWNER'S WARRANTY RESPONSIBILITIES:

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

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

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

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

FIRMAN Emission Control Defects Warranty Provisions

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

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

The warranty on emissions-related parts is as follows:

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

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

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

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

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

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

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

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

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

PARTS COVERED BY WARRANTY

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

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

Limitations

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

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

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

FIRMAN POWER EQUIPMENT INC.

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