

FIRMAN **OWNER'S MANUAL**











IMPORTANT: Read all safety precautions and instructions carefully before operating equipment.



Ensure engine is stopped and level before performing any maintenance or service.



DO NOT RETURN TO STORE!



CALL US FIRST! **CUSTOMER HOTLINE** 1-844-347-6261

FOR QUESTIONS OR SERVICE INFORMATION

Serial Number:

Purchase Date: ___

P/N:336745464 Rev:04

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INTRODUCTION

Thank you for purchasing a FIRMAN generator.

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 equipment. **Save these original instructions for future reference.**

This manual covers operation and maintenance of the FIRMAN generators. 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 other wise improve the generator and this documentation at any time without prior change.

Important Safety Information

DANGER

DANGER indicates a

potentially hazardous

The manufacturer cannot possibly anticipate every possible circumstance that might involve a hazard. The warnings in this manual and the tags and decals affixed to the unit are therefore not all-inclusive. If you use a procedure, work method or operating technique that the manufacturer does not specifically recommend you must satisfy yourself that it is safe for you and others. You must also make sure that the procedure work method or operating technique that you choose does not render the generator unsafe.

SAFETY INFORMATION

⚠ WARNING

WARNING indicates a

potentially hazardous

situation which, if not situation which, if not situation which, if not avoided, may result in minor avoided. WILL result in avoided, could result in or moderate personal injury, death or serious injury. death or serious injury. or property damage. **Toxic Fumes** Risk of Electric Shock Fire Hazard **Explosion Hazard** Rotating Parts Entanglement Hot Surface. Hazard Do Not Touch the Surface Operator's Manual Kickback

igtriangle caution

CAUTION indicates a

potentially hazardous

SAFETY PRECAUTIONS

A DANGER

Using a generator indoors CAN KILL YOU IN MINUTES.

Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.







NEVER use inside a home or garage, EVEN IF doors and windows are open.

Only use OUTSIDE and far away from windows, doors, and vents.

Avoid other generator hazards. READ MANUAL BEFORE USE.

△ WARNING

POISONOUS GAS HAZARD.



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 this product ONLY outside far away from windows, doors and vents to reduce the risk of carbon monoxide gas from accumulating and potentially being drawn towards occupied spaces.
- 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 product 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.
- ALWAYS place this product downwind and point the engine exhaust away from occupied spaces. If you start to feel sick, dizzy, or weak while using this product, shut it off and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.

FOR RESIDENTS OF CALIFORNIA

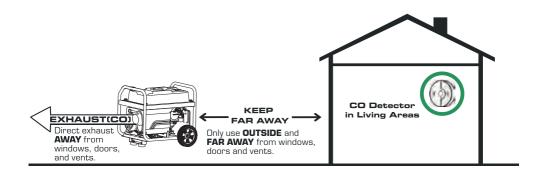
WARNING: This product and the engine exhaust from this product can expose you to chemicals including CO, which are known to the State of California to cause cancer or cause birth defects and other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

• If you start to feel sick, dizzy or weak while using the portable generator, you may have carbon monoxide poisoning. Get out side to fresh air immediately and call 911 for emergency medical attention. Very high levels of CO can rapidly cause victims to lose consciousness before they can rescue themselves. DO NOT attempt to shut off the generator before moving to fresh air. Entering an enclosed space where a generator is or has been running may put you at greater risk of CO poisoning.

CORRECT USAGE

Example location to reduce risk of carbon monoxide poisoning

- ONLY use outside and downwind, far away from windows, doors and vents.
- Direct exhaust away from occupied spaces.



INCORRECT USAGE

Do not operate in any of the following locations:

Near any door, window or vent

Garage

Basement

Crawl Space

Living Area





△ WARNING



Starter cord kickback (rapid retraction) will pull hand and arm toward engine faster than you can let go which could cause broken bones, fractures, bruises, or sprains resulting in serious injury.

- When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- **NEVER** start or stop engine with electrical devices plugged in and turned on.

↑ WARNING





Fuel and its vapors are extremely flammable and explosive which could cause burns, fire, or explosion resulting in death or serious injury and/or property damage.

WHEN ADDING OR DRAINING FUEL

- Turn generator engine OFF and let it cool at least 2 minutes before removing fuel cap.
 Loosen cap slowly to relieve pressure in tank.
- Fill or drain fuel tank outdoors.
- DO NOT overfill tank. Allow space for fuel expansion.
- If fuel spills, wait until it evaporates before starting engine.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Check fuel lines, tank, cap, and fittings frequently for cracks or leaks. Replace if necessary.
- DO NOT light a cigarette or smoke.

WHEN STARTING EQUIPMENT

- Ensure spark plug, muffler, fuel cap, and air cleaner are in place.
- DO NOT crank engine with spark plug removed.

WHEN OPERATING EQUIPMENT

- DO NOT operate this product inside any building, carport, porch, mobile equipment, marine applications, or enclosure.
- DO NOT tip engine or equipment at angle which causes fuel to spill.
- **DO NOT** stop engine by moving choke control to "Start" position.

WHEN TRANSPORTING, MOVING OR REPAIRING EOUIPMENT

- Transport/move/repair with fuel tank EMPTY or with fuel shutoff valve OFF.
- DO NOT tip engine or equipment at angle which causes fuel to spill.
- Disconnect spark plug wire.

WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK

 Store away from furnaces, stoves, water heaters, clothes dryers, or other appliances that have pilot light or other ignition source because they could ignite fuel vapors.

△ WARNING

- This generator does not meet U. S. Coast Guard Regulation 33CFR-183 and should not be used on marine applications.
- Failure to use the appropriate U. S. Coast Guard approved generator could result in death or serious injury and/or property damage.



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

 Use approved transfer equipment, suitable for the intended use, to prevent backfeed by isolating generator from electric utility workers.

- When using generator for backup power, notify utility company.
- Use a ground fault circuit interrupter (GFCI) in any damp or highly conductive area, such as metal decking or steel work.
- **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 handle generator or electrical cords while standing in water, while barefoot, or while hands or feet are wet.
- DO NOT allow unqualified persons or children to operate or service generator.

△ WARNING





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

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

- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- 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. Contact the original equipment manufacturer, retailer, or dealer to obtain a spark arrester designed for the exhaust system installed on this engine.
- Replacement parts must be the same and installed in the same position as the original parts.

△ WARNING





Unintentional sparking could cause fire or electric shock resulting in death or serious injury.

WHEN ADJUSTING OR MAKING REPAIRS TO YOUR GENERATOR

 Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

WHEN TESTING FOR ENGINE SPARK

- Use approved spark plug tester.
- DO NOT check for spark with spark plug removed.

△ WARNING



Starter and other rotating parts could entangle hands, hair, clothing, or accessories resulting in serious injury.

- NEVER operate generator without protective housing or covers.
- DO NOT wear loose clothing, jewelry or anything that could be caught in the starter or other rotating parts.
- Tie up long hair and remove jewelry.

\triangle Caution

Excessively high operating speeds could result in minor injury. Excessively low operating speeds impose a heavy load.

- DO NOT tamper with governor spring, links or other parts to increase engine speed.
 Generator supplies correct rated frequency and voltage when running at governed speed.
- **DO NOT** modify generator in any way.

NOTE:

Exceeding generators wattage/amperage capacity could damage generator and/or electrical devices connected to it.

- DO NOT exceed the generator's wattage amperage capacity.
- Start generator and let engine stabilize before connecting electrical loads.
- Connect electrical loads in OFF position, then turn ON for operation.
- Turn electrical loads OFF and disconnect from generator before stopping generator.

NOTE:

Improper treatment of generator could damage it and shorten its life.

- Use generator only for intended uses.
- If you have questions about intended use, ask dealer or contact local service center.
- Operate generator only on level surfaces.
- DO NOT expose generator to excessive moisture, dust, dirt, or corrosive vapors.
- DO NOT insert any objects through cooling slots.
- If connected devices overheat, turn them off and disconnect them from generator.
- Shut off generator if:
 - -Electrical output is lost.
 - -Equipment sparks, smokes, or emits flames.
 - -Unit vibrates excessively.

△ WARNING

Medical and Life Support Uses.

- In case of emergency, call 911 immediately.
- NEVER use this product to power life support devices or life support appliances.
- NEVER use this product to power medical devices or medical appliances.
- Inform your electricity provider immediately if you or anyone in your household depends on electrical equipment to live.
- Inform your electrical provider immediately if a loss of power would cause you or anyone in your household to experience a medical emergency.

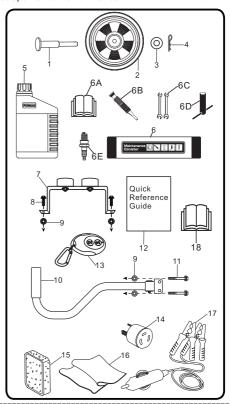
UNPACKING THE GENERATOR

- Open carton and Remove packaging materials.
- Remove generator, accessories boxes, and literature from carton. If any items are missing or damaged, contact our product service department at 1-844-347-6261.

Parts Included

Your gasoline powered generator ships with the following parts:

1. Axie pin	. 4
2. 8.0" in. Wheel	
3. Flat Washer	2
4. Cotter pin	
5. Engine Oil(Bottle)	
6. Maintenance Canister	
6A. English Manual	
6B. Oil Funnel	
6C. Double Open wrench (10mm & 12mm)	2
6D. Wrench for Spark plug	
6E. Spare Spark Plug	
7. Support Leg with Vibration Mounts	
8. Flange Bolt (M8x16 for Support Leg)	. 2
9. Flange Lock Nut (M8)	2
10. Handle	. 1
11. Flange Bolt (M8x45 for Handle)	2
12. Quick Reference Guide	1
13. Remote	1
14. Tethered Adapter TT-30P to L5-30R	1
15. Air Filter Element	1
16. Oil Rag	1
17. Battery Charge Cable	1
18 Spanish & French Manual	1



REMOVAL OF SHIPPING SUPPORTS

Before you can run your new generator, follow these simple instructions:

The following items must be removed before running your new generator. In order to protect your generator these items have been added to ensure safe delivery of your new generator.

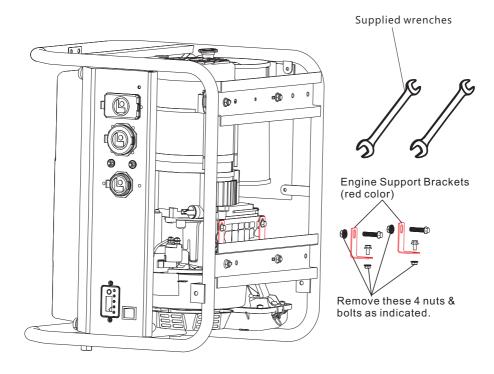
△ CAUTION

Failure to remove these items can result in damage to your generator, possible Personal injury and void your warranty.

Refer to the following instructions and pictures to remove the attached engine support brackets (red) under the engine.

- 1. Before filling the engine oil, tip the generator back onto its recoil frame end as indicated in this picture. Place the generator on the flattened cardboard box or other protective surface.
- 2. Remove the indicated bolts and nuts from the red engine support brackets. You may use the appropriate wrenches provided.
- 3. You may discard these brackets, as it is no longer required for normal operation of your generator.

Your generator is now ready for use. Refer to your owner's manual for proper oil fill and startup instructions.



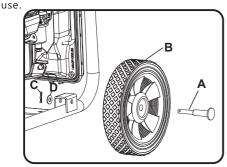
ASSEMBLY

The generator requires some assembly prior to usage. If problem arise when assembling the generator, call 1-844-347-6261.

Install the Wheel Kit

△ CAUTION

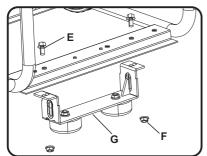
The wheel kit is not intended for over-the-road



- 1. Before adding wheels, tip the generator on its side.
- 2. Slide the axle pin A through the wheel B.
- 3. Slide the axle pin **A** through the mount point on the frame and washer **D** .
- Secure the wheel and axle pin with the cotter pin C.
- 5. Repeat steps 2-4 to attach another wheel.

Install the Support Leg

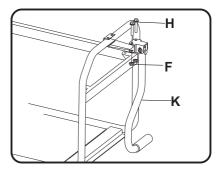
- 1. Attach the support leg **G** to the generator frame with flange bolts **E** (M8x16) and flange lock nuts **F**(M8).
- 2. Tip the generator slowly so that it rests on the wheels and support leg.
- Tighten bolt **E** and nut **F** with provide wrenches



Install the Handle

- 1. Place the handle **K** over the mounting channel on the frame.
- 2. Secure the handle to the frame using the two handle flange bolts **H**(M8x45).
- Place a flange nut F (M8) on the end of each bolt and fasten securely with provided wrenches.

DO NOT over tighten the flange nuts.

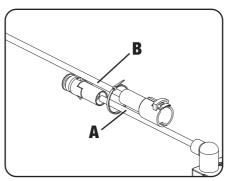


Battery Cable Connection

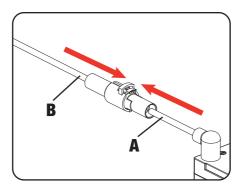
NOTE:

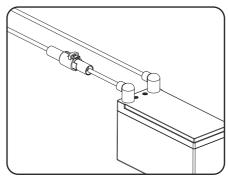
The generator comes equiped with the positive(red) and negative(black) cables already attached to battery terminals.

1. Cut wire tie that is binding the black battery cables A and B.

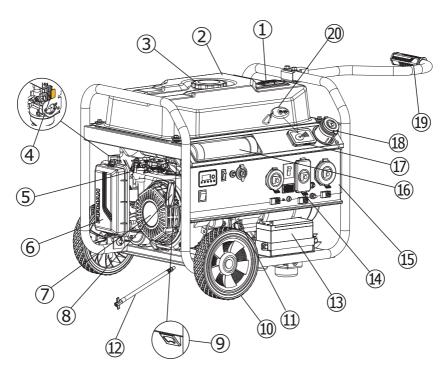


2. Insert the male connector of cable A into female connector of cable B.





CONTROLS AND FEATURES Generator

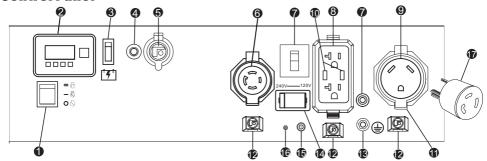


- 1- Fuel Gauge
- 2-5.0 Gallon Capacity Fuel Tank
- 3- Fuel Cap
- 5- Fuel Valve
- 6- Air Filter
- 7-208cc FIRMAN OHV Engine
- 8- Recoil Starter
- 9- Bottle Opener
- 10-8.0" Flat Free Wheel
- 11- Oil Filler Cap
- 12- Easy Oil Drain

- 13-Battery
- 14- Outlet Cover
- 15 Control Panel
- 4- Choke Lever(behind air filter box) 16- Maintenance Canister Includes **English Manual, Oil Funnel, Double**
 - Open Wrench, Wrench for Spark
 - Plug and Spare Spark Plug
 - 17- Remote Holder Includes Remote
 - 18- Tethered Adapter TT-30P to L5-30R
 - 19- Handle
 - 20- Remote Control

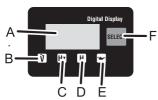
^{*}We are always working to improve our products. Therefore, the enclosed product may differ slightly from the image on this page.

Control Panel



NOTE: Total power drawn from all receptacles must not exceed the name plate rating.

- 1 Engine Start Switch Used to start engine from the starter motor(Electric start model only). To start engine, press and hold the switch in the "START"(II) position, the engine will crank and attempt to start. When the engine starts, release the switch to the "RUN"(I) position.
- **4-1 Data-Minder(Multi-Meter)** Push the SELECT button to show the Voltage, Hertz and running hours. If the low oil indicator is lit, check the oil level.



- A Digital display
- D Hour indicator
- - B AC voltage indicator E Low oil indicator
- C Frequency indicator
- F Select button
- **6** Battery Power Restore Switch Restore the battery power to the control module. You must press this switch and hold for 3 seconds before start the generator, including recoil. electric and remote start.
- **DC Circuit Breaker** Protect the DC receptacle.
- **12V DC Outlet Receptacle** Maximum full load 8.3 Amp current may be drawn from this 12 Volt receptacle.
- 120/240V, 30A Twist-Lock (NEMA L14-30R) May be used to supply power for the operation of 120/240 Volt, 30Amp.

- Circuit Breakers The receptacles are protected by an AC circuit protector. If the generator is overloaded or an external short circuit occurs the circuit protector will trip. If this occurs, disconnect all electrical loads and try to determine the cause of the problem before attempting to use the generator again. If overloading causes the circuit protector to trip, reduce the load. Note: Continuous tripping of the circuit protector may cause damage to generator or equipment. The circuit protector may be reset by pushing the button of the protector.
- **3 120V, 20A Duplex** (NEMA 5-20R) Maximum full load 20 Amp current may be drawn from this 120 Volt receptacle.
- **9** 120V, 30A RV (NEMA TT-30R) Maximum full load 30 Amp current may be drawn from this 120 Volt receptacle.
- Two 3.1Amp-5.0 Volt DC USB Ports
- **1** Outlet Cover Protect the receptacles from dust and debris.
- LED Light
- **Ground Terminal** Consult an electrician for local grounding regulations.
- ∇oltage Selector Switch To select between 120 Volt or 240 Volt.
- **®** Remote Start Indicator Light The light will light or flash depending on the status of the remote start system.

- Remote Start Program Button Use this button along with the remote control to program the generator to be started remotely. Your remote control is already programmed in factory for your convenience. You might need programming when using new remote control.
- Tethered Adapter TT-30P(30A/120V) to L5-30R(30A/120V)

English Page 12 Customer Service: 1-844-FIRMAN1

Remote Control Programming

Before the generator can be started, an initial start-up procedure must be performed so the generator and the remote control recognize each other.

NOTE:

YOUR REMOTE CONTROL IS ALREADY PROGRAMMED IN FACTORY FOR YOUR CONVENIENCE, AND IT IS READY TO START THE GENERATOR.

If the remote control is replaced then you will need to go through following procedure with new remote control.

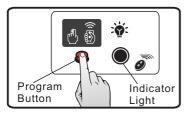
1. Flip the engine switch to the "RUN"(I) position.



3 seconds and then release



3. Push and hold the program button on the control panel for approximately 3 seconds. The remote start indicator light will light.



4. Push and release the "STOP" button on the remote control. The indicator light will flash once to erase the remote program.



5. Push and release the "START" button. The indicator light will flash once to program the remote.



2. Flip the battery power restore switch for about 6. Push and hold the program button approximately 3 seconds until the indicator light turn off. The generator is now programmed to start remotely.

SPECIFICATIONS

Model	P03615
Starting Watts	4550
Running Watts	3650
Rated AC Voltage	120/240V
Rated Fequency	60Hz
Phase	Single
Voltage Regulator	AVR
Power Factor	1
Total Harmonic Distortion(THD)	Standard
Alternator Type	Brushed
Engine	FIRMAN
Engine Type	Single Cylinder, 4-Stroke OHV Air Cooled
Displacement	208сс
Low Oil Shutdown	Yes
Ignition System	Breakless Ignition Type, Flywheel Magneto
Starting System	Recoil/Electric Start/Remote Start
Fuel	Unleaded Automotive Gasoline
Capacity Fuel Tank	5.0 Gallon
Lubricating Oil Capacity	20.3 oz(0.6L)
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
Grounding System	Neutral Bonded To Frame

AN IMPORTANT MESSAGE ABOUT TEMPERATURE:

Your Firman Power Equipment product is designed and rated for continuous operation at ambient temperatures up to 40°C (104°F). When your product is needed, your product may be operated at temperatures ranging from -15°C (5°F) to 50°C (122°F) for short periods. If the product is exposed to temperatures outside this range during storage, it should be brought back within this range before operation. In any event, the product must always be operated outdoors, in a well-ventilated area and away from doors, windows and other vents.

- 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 fuel BTU content
 ambient temperature, altitude, engine condition and etc. Maximum power decreases about
 3.5% for each 1,000 feet above sea level; and will also decrease about 1% for each 10°F(6°C)
 above 60°F(16°C) ambient temperature.

English Page 14 Customer Service: 1-844-FIRMAN1

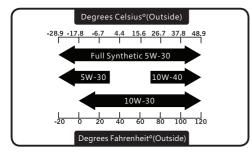
ADD ENGINE OIL

△ CAUTION

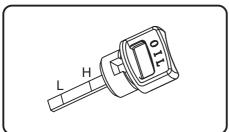
DO NOT attempt to crank or start the engine before it has been properly filled with the recommended type and amount of oil. Damage to the generator as a result of failure to follow these instructions will void your warranty.

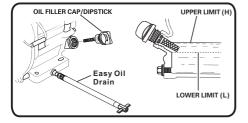
NOTE:

The recommended oil type is 10W-30 automotive oil. However outdoor temperatures determine the space proper oil viscosity for the engine. Use the chart to select the best for the outdoor temperature range expected.

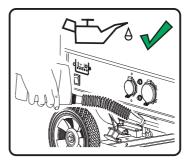


- 1.Place generator on a flat, level surface.
- 2.Clean area around oil fill and remove yellow oil fill cap/dipstick.
- 3. Wipe dipstick clean.





4.Using oil funnel, slowly pour contents of provided oil bottle into oil fill opening to the "H" mark on dipstick. Be careful do not overfill. Overfilling with oil could cause the engine to not start or hard starting.



5.Replace oil fill cap/dipstick and fully tighten. 6.Oil level should be checked prior to each use or at least every 8 hours of operation. Keep oil level maintained.

△ CAUTION

The engine is equipped with a low oil shut-off and will stop when the oil level in the crankcase falls below the threshold level

NOTE:

We consider the first 5 hours of run time to be the break-in period for the unit. During the break in period stay at or below 50% of the running watt rating and vary the load occasionally to allow stator windings to heat and cool. Adjusting the load will also cause engine speed to vary and help seat piston rings.

Low Oil Shutdown

The unit is equipped with a low oil shutdown.If the oil level becomes lower than required,the sensor will activate a warning device or stop the engine.

If generator shuts off and the oil level is within specifications, check to see if generator is sitting at an angle that forces oil to shift. Place on an even surface to correct this. If engine fails to start, the oil level may not be sufficient to deactivate low oil level switch. Make sure the sump is completely full of oil.

ADD FUEL

Fuel must meet these requirements:

- Clean, fresh, unleaded gasoline.
- Use regular UNLEADED gasoline with the generator engine with a minimum 87 octane / 87 AKI (91 RON).
 - For high altitude use, see "Operation at High Altitude".
- Do not use gasoline with more than 10% alcohol such as E85 or ethanol.

NOTE: Avoid generator damage.

Failure to follow Operator's Manual for fuel recommendations voids warranty.

- DO NOT use unapproved gasoline such as E85.
- DO NOT mix oil in gasoline.
- DO NOT modify engine to run on alternate fuels.

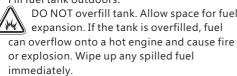
△ WARNING



Fuel and its vapors are extremely flammable and explosive which could cause burns, fire or explosion resulting in death, serious injury and/or property damage.

WHEN ADDING FUEL

• Fill fuel tank outdoors.



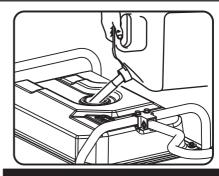
- If fuel spills, wait until it evaporates before starting engine.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- Check fuel lines, tank, cap and fittings frequently for cracks or leaks. Replace if necessary.



DO NOT light a cigarette or smoke when filling the fuel tank.

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.

 Install fuel cap and let any spilled fuel evaporate before starting engine or wipe up any spilled gasoline.



igtriangle caution

- Slowly add unleaded gasoline to fuel tank.
- Do not overfill tank.
- Do not fill above the red line indicator.
 This will allow expansion in hot weather and prevent overflow.



IMPORTANT: It is important to prevent gum deposits from forming in fuel system parts such as the carburetor, fuel hose or tank during storage. Alcohol-blended fuels (called gasohol, ethanol or methanol) can 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. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. See the "Long Term Storage" section. Never use engine or carburetor cleaner products in the fuel tank as permanent damage may occur.

Operation at High Altitude

At altitudes over 5,000 feet(1524 meters), a minimum 85 octane / 85 AKI (89 RON) gasoline is acceptable.

The density of air at high altitude is lower than at sea level. Engine power is reduced as the air mass and air-fuel ratio decrease. Engine power and generator output will be reduced approximately 3.5% for every 1000 feet of elevation above sea level. This is a natural trend and cannot be changed by adjusting the engine. At high altitudes

increased exhaust emissions can also result due to the increased enrichment of the air fuel ratio.

Other high altitude issues can include hard starting, increased fuel consumption and spark plug fouling. To alleviate high altitude issues other than the natural power loss, FIRMAN can provide a high altitude carburetor main jet. The alternative main jet and installation instructions can be obtained by contacting Customer Support. THERE IS A PERMANENT CONDUCTOR BETWEEN Installation instructions are also available in the Technical Bulletin area of the FIRMAN internet site.

The part number and recommended minimum altitude for the application of the high altitude carburetor main jet is listed in the table below.

	208cc	Altitude
Altitude main jet 1	335717002	3000-6000Feet
Altitude main jet 2	335717003	6000-8000Feet

△ WARNING

Operation using the alternative main jet at elevations lower than the recommended minimum altitude can damage the engine. For operation at lower elevations, the standard main jet must be used. Operating the engine with the wrong engine configuration at a given altitude may increase its emissions and decrease fuel efficiency and performance.

Grounding

The National Electric Code requires your generator must be properly connected to an appropriate ground to help prevent electric shock.

WARNING



Failure to properly ground the generator can result in electric shock.

A ground terminal connected to the frame of the generator has been provided on the control panel. For remote grounding, connect of a length of heavy gauge (12 AWG minimum) copper wire between the generator ground terminal and a copper rod driven into the ground. We strongly recommend that you consult with a qualified electrician to ensure compliance with local electrical codes.

THE GENERATOR (STATOR WINDING) AND THE FRAME

Connecting to a Building's Electrical System

Connections for standby power to a building's electrical system must be made by a qualified electrician. The connection must isolate the generator power from utility power or other alternative power sources and must comply with all applicable laws and electrical codes.

WARNING



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

- Use approved transfer equipment to prevent backfeed by isolating generator from electric utility workers.
- When using generator for backup power, notify utility company.
- Use a ground fault circuit interrupter (GFCI) in any damp or highly conductive area, such as metal decking or steel work.
- 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 handle generator or electrical cords while standing in water, while barefoot, or while hands or feet are wet.
- DO NOT allow unqualified persons or children to operate or service generator.

5. OPERATION

Generator Location

△ WARNING

Make sure you review each warning in order to prevent fire hazard.

- Keep area clear of inflammables or other hazardous materials.
- Select a site that is dry, well ventilated and protected from the weather.
- Keep exhaust pipe clear of foreign objects.
- Keep generator away from open flame.
- Keep generator on a stable and level surface.

CAUTION

Tilting can cause fuel spillage.





Do not block generator air vents with paper or other material

A DANGER

Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.









Avoid other generator hazards. READ MANUAL BEFORE USE.

or garage, EVEN IF doors

and windows are open.

△ WARNING

POISONOUS GAS HAZARD.



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 this product ONLY outside far away from windows, doors and vents to reduce the risk of carbon monoxide gas from accumulating and potentially being drawn towards occupied spaces.
- 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 product 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.
- ALWAYS place this product downwind and point the engine exhaust away from occupied spaces. If you start to feel sick, dizzy, or weak while using this product, shut it off and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.

Surge Protection

△ CAUTION

Voltage fluctuation may impair the proper functioning of sensitive electronic equipment.

Electronic devices, including computers and many programmable appliances use components that are designed to operate within a narrow voltage range and may be affected by momentary voltage fluctuations. While there is no way to prevent voltage fluctuations, you can take steps to protect sensitive electronic equipment.

Install UL1449, CSA-listed, plug-in surge suppressors on the outlets feeding your sensitive equipment. Surge suppressors come in single- or multi-outlet styles. They're designed to protect against virtually all short-duration voltage fluctuations.

Starting the Generator (Recoil Start)

- Before starting the generator, check for loose or missing parts and for any damage which may have occurred during shipment.
- 2. Check oil level and fuel.





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



4. Turn the fuel valve to the " \mathbf{ON} " (\mathbf{I}) position.



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



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



7. Move the choke lever to the "START" position.



8. Pull the starter cord slowly until resistance is felt and then pull rapidly.



Do not over-choke. As soon as engine starts and warms up, move the choke lever to the "RUN" position.



 Allow generator to run at no load for few minutes upon each initial start-up to permit engine and generator to stablize.



Starter cord kickback(rapid retraction) will pull hand and arm toward engine faster than you can let go which could cause broken bones, fractures, bruises, or sprains resulting in serious injury.

When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.

NOTE:

Keep choke lever in "START" position for only 1 pull of the recoil starter. After first pull, move choke lever to the "RUN" position for up to the next 3 pulls of the recoil starter. Too much choke leads to sparkplug fouling/engine flooding due to the lack of incoming air. This will cause the engine not to start.

NOTE-

If engine starts after 3 pulls but fails to run, or if unit shuts down during operation, make sure unit is on a level surface and check for proper oil level in crankcase. This unit may be equipped with a low oil protection device. If so, oil must be at proper level for engine to start.

Starting the Generator (Electric Start) Electric Start and Remote Start Operations

This model is provided with recoil start, electric start and remote start capabilities. The charger is a low amperage maintenance type charger. It will charge your battery as your generator runs. Avoid prolonged cranking, as it can damage the engine.

△ 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.

△ WARNING

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.

- Before starting the generator, check for loose or missing parts and for any damage which may have occurred during shipment.
- 2. Check oil level and fuel.





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



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



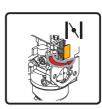
5. Flip the engine switch to the "RUN"(I) position.



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



7. Move the choke lever to the "START" position.



8. Press and hold the engine switch in the "**START**"(**II**) position for few seconds and release the switch to the "**RUN**"(**I**) position.



Do not over-choke. As soon as engine starts and warms up, move the choke lever to the "RUN" position.



 Allow generator to run at no load for few minutes upon each initial start-up to permit engine and generator to stablize.

Starting the Generator (Remote Start)

The generator can be started remotely from up to a maximum of 164 feet away using the remote control with new fully charged batteries in the remote control. As the batteries state of charge in the remote control reduces, the distance to start the generator will also reduce.

NOTE:

YOUR REMOTE CONTROL IS ALREADY PROGRAMMED IN FACTORY FOR YOUR CONVENIENCE. AND IT IS READY TO START THE GENERATOR.

If the remote control is replaced, then you will need to go through programming procedure in "Remote Control Programming" section.

- Before starting the generator, check for loose or missing parts and for any damage which may have occurred during shipment.
- 2. Check oil level and fuel.





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



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



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



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



7. Push and release the "START" button on the remote control. (Remote control is placed inside the remote holder for your convenience.) The generator will turn over for 3 to 5 seconds and start.





An engine warmup delay is programmed into the remote start cycle. After the generator is running, there will be a delay of electrical output for 15 seconds.

If the engine fails to start within 3 to 5 seconds, the engine will attempt to start five additional times. If the generator failed to start, the remote 120 Volt is supplied to 120 Volt outlets including start indicator light will flash.

If the generator fails to start after a total of six attempts, the start button on the remote control must be pushed again to begin another cycle of six start attempts.

8. Allow generator to run at no load for few minutes upon each initial start-up to permit engine and generator to stablize.

Remote Control Power Consumption

While the Engine Switch is in the "RUN" (I) position and the battery power restore switch has been 4.Plug in and turn on the desired 120 or 240 Volt pressed for about 3 seconds, the remote module is active and waiting for signal. This function requires better to attach the item with largest load first. electrical current which is consuming the battery.

THIS GENERATOR WILL AUTOMATICALLY **DISCONNECT THE BATTERY AFTER 12 HOURS** TO AVOID BATTERY DRAINAGE, IF THE **GENERATOR IS NOT RUNNING AND THE ENGINE** SWITCH IS LEFT IN "RUN" (I) POSITION. YOU MUST GO THROUGH STARTING PROCEDURE TO RESUME RUNNING THE UNIT AGAIN.

Connecting Electrical Loads

This unit has been pretested and adjusted to handle its full capacity. Before starting the generator, disconnect all load. Apply load only after generator is running. Voltage is regulated via the engine speed adjusted at the factory for correct output. Readjusting will void warranty.

⚠ CAUTION

When applying a load, do not exceed the maximum wattage rating of the generator when using one or more receptacles. Also, do not exceed the amperage rating of any one receptacle.

Do not apply heavy electrical load during break-in period (the first five hours of operations).

- 1.Let engine stabilize and warm up for a few minutes after starting.
- 2.Ensure circuit breaker on control panel is in on position.

3. Turn on voltage selector to desired 120 Volt or 240 Volt. When voltage selector is 120 Volt position, TT-30R and 5-20R outlets (items 9 and 8 in Control Panel Section). When voltage selector is in 240 Volt position, 120/240 Volt is supplied just to outlet L14-30R (item 6 in Control Panel Section).



AC, single phase, 60Hz electrical loads. It is



NOTE:

Connecting a generator to your electric utility company's power lines or to another power source may be against the law. In addition this action, if done incorrectly, could damage your generator and appliances and could cause serious injury or even death to you or a utility worker who may be working on nearby power lines. If you plan to run a portable electric generator during an outage, please notify your electric utility company immediately and remember to plug your appliances directly into the generator. Do not plug the generator into any electric outlet in your home. Doing so could create a connection to the utility company power lines. You are responsible for ensuring that your generator's electricity does not feed back into the electric utility power lines. If the generator will be connected to a building electrical system, consult your local utility company or a qualified electrician. Connections must isolate generator power from utility power and must comply with all applicable laws and codes.

12V DC Outlet (Battery Charger)

Your generator has the capability of charging 12V DC automotive or utility style storage battery (NOT OTHER TYPE).

The 12V DC outlet is ONLY to be used with the supplied 12V battery charging cable. The DC output is unregulated and can damage some 12V DC products. This means that the charging output dose not decrease as the battery reaches full charge.

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.

∧ CAUTION

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.

△ 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.

△ Warning

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.

NOTE:

When the battery circuit is in use the AC capacity is reduced by 60 watts. Make sure the combined load is within the rated limits.

△ WARNING

Do not continue to charge a battery that becomes hot or is fully charged.

DC CIRCUIT PROTECTOR

A DC circuit protector has been provided to protect the circuit from overloads. If an overload occurs, the circuit protector will trip. The circuit protector may be reset by pushing the button of the protector.

Charging a large capacity battery or a totally discharged battery may cause the DC breaker to turn off. In these cases, a separate battery charger unit connected to an AC power source is recommended instead of the DC receptacle on the generator. The DC circuit protector dose not prevent overcharging.

Stopping the Engine

 Turn off and remove entire electrical loads. Never start or stop the generator with electrical devices plugged in or turned on.



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

2. Remote Start Operation

Push and release the "**STOP**" button on the remote control. The generator will shut off immediately.

Note: Skip this step and go to step 3, if you are Low Oil Shutdown not using Remote Start to shutdown the engine.





3. Electric Start and Recoil Start Operations 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.







Fuel and its vapors are extremely flammable and explosive which could cause burns, fire or explosion resulting in death, serious injury and/or property damage.

DO NOT stop engine by moving choke control to "START" position.

Important: Always ensure that the Fuel Valve and the Engine Switch are in the "OFF" position when the engine is not in use.

NOTE:

If the engine will not be used for a period of two weeks or longer, please see the Storage section for proper engine and fuel storage.

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 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 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
- 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.

MAINTENANCE AND STORAGE

MAINTENANCE SCHEDULE

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

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

General Recommendations

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

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

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

Notice Once a year you should clean or replace the spark plug and replace the air filter. New spark plugs and clean air filter assure proper fuel-air mixture and help your engine run better and last longer.

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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.
- (a) Pull the oil drain hose off of the engine mounted clip.
- (b) Point the hose into a drain pan. Open the oil valve and allow the oil to drain completely.

NOTE:

The hose end(oil valve) must be lower than the engine base to allow the oil to drain.

(c)Close the oil valve and reinstall the hose onto engine mounted clip.

NOTE:

Please use a container to dump the used oil for protecting the environment.

(d) Fill the engine with oil until it reaches the High(H) level on the oil filler cap. See "ADD ENGINE OIL" section for more information.





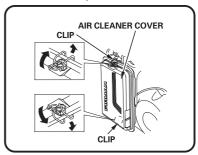
 Use fresh and high quality lubricating oil to the specified quantity.

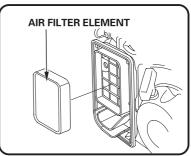
If contaminated or deteriorated oil is used or the quantity of the engine oil is not sufficient, the engine damage will result and its life will be greatly shortened.

Air Filter Maintenance

Maintaining an air filter in proper condition is very important. Dirt induced through improperly installed, improperly serviced, or inadequate elements damages and wears out engines. Always keep the element clean.

(a) Take out the air cleaner, clean it well in kerosene and dry it.





(b) After wetting the element by clean engine oil squeeze it tight by hand.

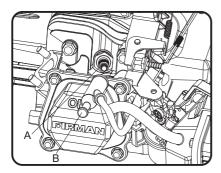


(c)Lastly, put the element in the case and install it securely. Spare air filter element is provided by the generator.

Spark Plug Maintenance

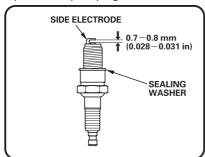
Changing the spark plug will help your engine to start easier and run better.

- (a) Remove the spark plug cap.
- (b) Remove spark plug using provided wrench.



A- Spark plug

- B- Spark plug cap
- (c) Inspect spark plug for damage and clean with a wire brush before reinstalling
- (d) Adjust the electrode gap to 0.7 to 0.8 mm (0.028" to 0.031").
- (e) Seat spark plug in position and thread by hand to prevent cross threading.
- (f) Tighten plug with provided wrench and put the cap back on spark plug.



SPARK PLUG: TORCH F6RTC NGK BPR6ES

CHAMPION RN9YC or equivalent.

Spare spark plug is provided by the generator.

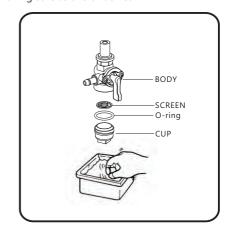
Maintenance Valve Clearance

- Intake: 0.1 - 0.15 mm (0.004 - 0.006 in.) - Exhaust: 0.1 - 0.15 mm (0.004 - 0.006 in.) To be performed by knowledgable/experienced owner or by authorized service center.

Cleaning Fuel Strainer

Dirt and water in the fuel are removed by the fuel strainer.

- (a) Remove the strainer cup and throw away water and dirt.
- (b) Clean the screens and strainer cup with gasoline.
- (c) Tightly fasten the cup to main body, making sure to avoid fuel leak.



Inspect Muffler and Spark Arrester

Inspect the muffler for cracks, corrosion, or other damage. Remove the spark arrester, if equipped, and inspect for damage or carbon blockage. If replacement parts are required, make sure to use only original equipment replacement parts.

△ WARNING





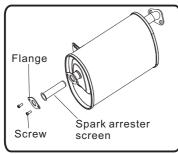
Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death or serious injury and/or property. Contact with muffler area could cause burns resulting in serious injury.

- DO NOT touch hot parts and AVOID hot exhaust gases.
- Allow equipment to cool before touching.
- Keep at least 5 feet (1.5 m) of clearance on all sides of generator including overhead.
- Replacement parts must be the same and installed in the same position as the original parts.

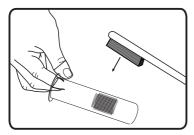
Clean or replace spark arrester as follows:

Depending on the type fuel used ,the type and amount of lubricant used, and/or your operating conditions, the exhaust part and muffler may become blocked with carbon deposits. If you notice power loss, you may need to remove these deposits to restore performance.

- 1. Allow the engine to cool completely before servicing the spark arrester.
- 2. Remove the screws securing the spark arrester in place and the remove it from muffler.



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



- 4. Replace the spark arrester if it is damaged.
- 5. Position the spark arrester in the muffler and attach with the screws.

△ CAUTION

Failure to clean the spark arrester will result in degraded engine performance.

GENERATOR MAINTENANCE

Make certain that the generator is kept clean and stored properly. Only operate the unit on a flat, level surface in a clean, dry operating environment. **DO NOT** expose the unit to extreme conditions, excessive dust, dirt, moisture or corrosive vapours.

△ CAUTION

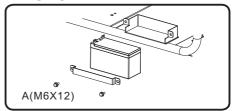
DO NOT use a garden hose to clean the generator. Water can enter the generator through the cooling slots and damage the generator windings.

Use a damp cloth to clean exterior surfaces of the generator.

Use a soft bristle brush to remove dirt and oil. Use an air compressor (25 PSI) to clear dirt and debris from the generator.

Inspect all air vents and cooling slots to ensure that they are clean and unobstructed.

Battery Replacement



- 1. Remove the spark plug wire from spark plug.
- 2. Remove the nut and bolt from the negative(-) and positive(+) posts.
- 3. Loosen and remove the screw A on the battery holding bracket.
- 4. Remove the battery and recycle and dispose of properly.
- 5. Install the new battery with follwoing specification: 12V sealed lead acid 7.5AH
- LXWXH:151X65X97mm(5.95X2.55X3.82inch) 6. Connect the red positive(+) battery cable to
- the battery first.
 7. Connect the black positive(-) battery cable
- to the battery second.
 8. Cover the post with boots.
- 9. Install the spark plug wire onto spark plug.

△ WARNING



To avoid electric shock:

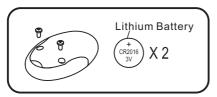
ALWAYS connect the positive (+) battery cable (red boot) first when connecting battery cables. **ALWAYS** disconnect the negative (-) battery cable (black boot) first when disconnecting battery cables.

NEVER connect the negative (-) battery cable (black boot) to the positive (+) post on the battery.

NEVER connect the positive (+) battery cable (red boot) to the negative (-) post on the battery. **NEVER** touch both battery posts simultaneously. **NEVER** place a metal tool across both battery posts.

ALWAYS use insulated or nonconducting tools when installing the battery.

Battery Replacement On Remote



- 1. Loosening and remove cover screws.
- 2. Remove the cover.
- 3. Remove the depleted batteries and insert two new CR2016 lithium batteries with the "+" terminal facing up.
- 4. Close the remote cover and tight the screws.

SERVICE AND STORAGE

Infrequent Service

If the unit is used infrequently, difficult starting may result. To eliminate hard starting, follow these instructions:

- 1. Run the generator at least 30 minutes every month.
- Run the generator, then close the fuel shut-off valve and allow the unit to run until the engine stops.
- 3. Move the engine switch to the "OFF" position.

Long Term Storage

It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel hoses or tank during storage. Also, experience indicates that alcohol-blended fuels (called gasohol, ethanol or methanol) can 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 not being operated, or is being stored for more than one month, follow these instructions to avoid engine problems:

- 1-ADD a properly formulated commercially **FUEL STABILIZER** to the tank if it is not already added.
- 2-Operate the engine for 5-10 minutes to circulate treated fuel into fuel lines and carburetor before shutdown.
- 3- After engine cools down, remove all gasoline from the fuel tank. Use a commercially available, non-conductive vacuum siphon.



△ DANGER

Drain fuel into approved container outdoors, away from open flame. Be sure engine is cool. Do not smoke.

4-**FUEL STARVATION:** Start and run the generator until it stops from lack of fuel. This will dry out all remaining fuel in tank, fuel lines and carburetor. 5-Allow the unit to cool entirely before cleaning and storage.

6-Change oil with recommended grade oil.

7-Remove spark plug and pour about one teaspoon of engine oil through the spark plug hole, then pull the recoil starter several times to distribute the oil for lubricating the cylinder. Reattach the spark plug. Pull recoil slowly until resistance is felt. This will close the valves so moisture cannot enter engine cylinder. Gently release recoil starter.

- 8-Keep the engine switch and fuel valve on "OFF" position.
- 9-Cover the unit and store in a clean, dry place out of direct sunlight. **NEVER USE WATER TO CLEAN GENERATOR.**

NOTE:

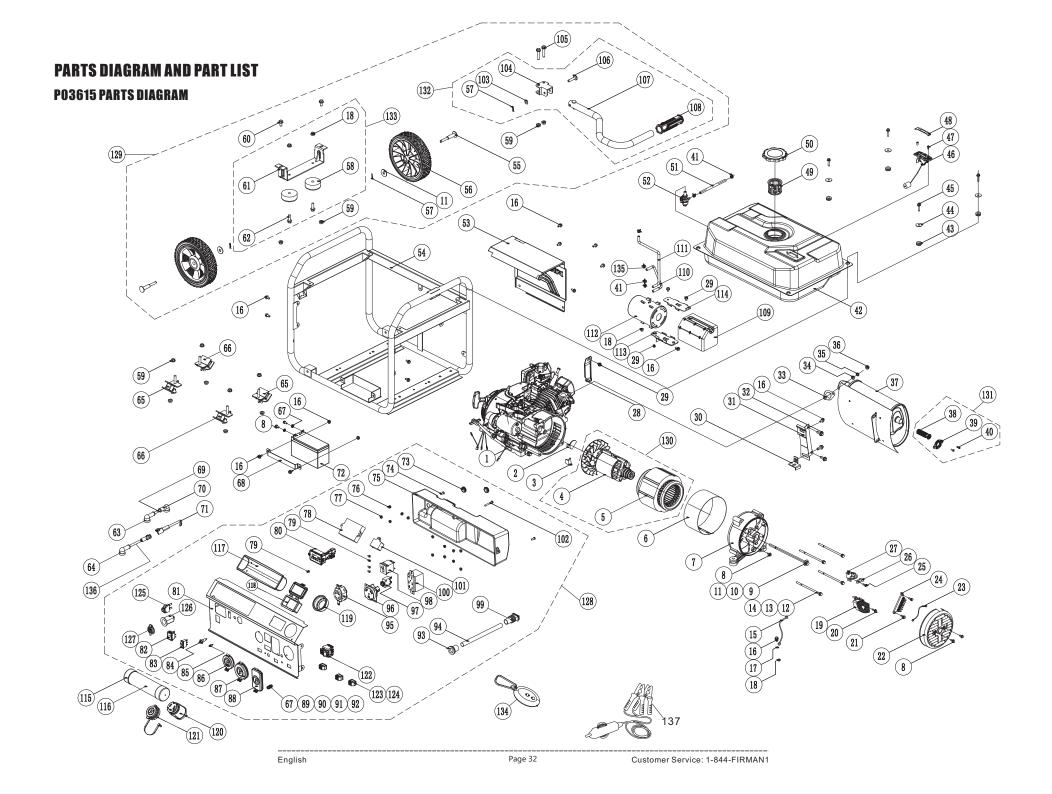
- We recommend always using a fuel stabilizer.
 A FUEL STABLIZER will minimize the formulation of fuel gum deposits during storage, the fuel stabilizer can be added to the gasoline in the fuel tank, or into the gasoline in a storage container.
- If it is not practical to empty the fuel tank and the unit is to be stored for some time, use a commercially available FUEL STABILIZER added to the gasoline to increase the life of the gasoline. Run the unit for 5-10 minutes, turn off the fuel valve and allow to run until engine stops from lack of fuel (FUEL STARVATION).
- Any damages 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.

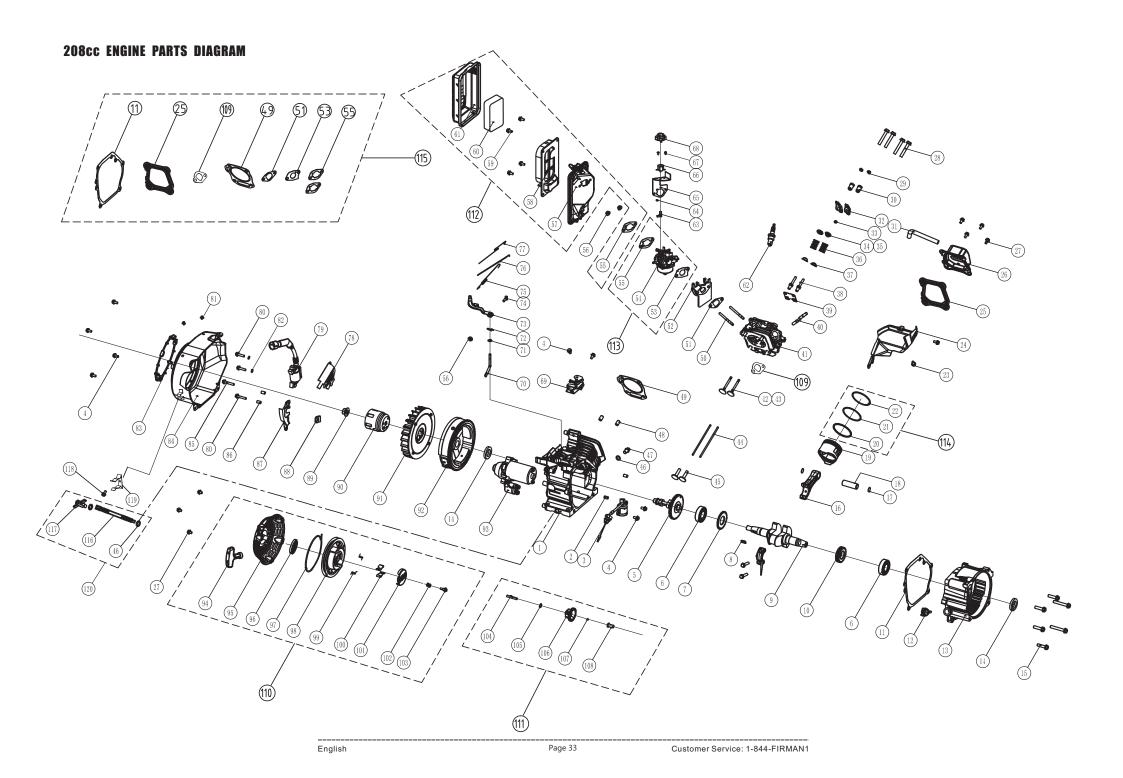
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TROUBLE SHOOTING

Problem	Cause	Correction
Engine is running, but no AC output is available.	1. Circuit breaker is open. 2. Overload light is on. 3. Poor connection or defective cord set. 4. Connected device is bad.	Reset circuit breaker. Review the load and restart the unit. Check all connections and cord set. Replace defective device.
Engine runs good at no-load but "bogs down" when loads are connected.	 Clogged or dirty fuel filter. Clogged fuel line. Generator is overloaded. Clogged spark arrester. 	Clean or replace fuel filter. Clean the fuel line. Check the load and adjust. Clean or replace spark arrester.
Engine will not start; starts and runs rough or shuts down when running.	1. Low oil level sensor. 2. Out of fuel. 3. Bad Spark plug. 4. Spark plug wire not connected to spark plug. 5. Clogged or dirty fuel filter. 6. Out of battery power. 7. Choke in the wrong position. 8. Clogged spark arrester.	1. Fill crankcase to proper level/ Place generator on level surface. 2. Fill fuel tank with gasoline . 3. Replace spark plug. 4. Connect wire to spark plug. 5. Clean or replace the fuel filter. 6. Charge or replace battery. 7. Adjust the choke position. 8. clean or replace spark arrester.
Engine lacks power.	1. Load is too high 2. Dirty air filter 3. Clogged or dirty fuel filter 4. Clogged spark arrester 5.Overheating 6. Choke in the wrong position	1. Check the load and adjust 2. Clean or replace the air filter 3. Clean or replace fuel filter 4. Clean or replace spark arrester 5. Check for air restriction, Move to a well ventilated area 6. Adjust the choke position
Engine "hunts" or falters.	1. Clogged or dirty fuel filter 2. Fuel tank low (gasoline)	Clean or replace fuel filter Add fuel.

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P03615 PARTS LIST

NO. Part Nu	ımber	Description	Qty.	NO.	Part Number	Description	Qty.
1 336713	3679	FIRMAN 208cc Engine	1	71	336713693	Battery cable (Female 180mm)	1
2 336713	3501	Rubber Cap 2	1	72	336713613	Battery	1
3 336713	3502	Rubber Cap1	1	73	336713564	Grommet	2 2
4 336713	3681	Rotor Assy	1	74	336713565	Screw M5×14	2
5 336713	3682	Stator Assy	1		336713658	Control Box	1
		Stator Cover	1			Nut M4	11
7 336713	3506	Generator End Cover	1		336713567	Nut M3	2
8 336713	3507	Flange Bolt M5×12	7		336713677	Control Module	1
9 336713	3508	Flange Bolt M8×252	1		336713569	Screw&washer Assy M4×8	5
10 336713	3509	Lock Washer Ø8	2		336713570	Multi Meter	1
11 336713	3510	Flat Washer Ø8	3	81	336713688	Control Panel	1
12 336713	3511	Flange Bolt M6×179	4	82	336713616	Engine Switch	1
13 336713	3512	Lock Washer Ø6	2	83	336713678	Power Restore Switch	1
1 14 1336713	3513	l Flat Washer Ø6	2	84	336713618	Indicator Light	1
15 336713	3514	Ground Wire 1 Flange Bolt M6×12 External Teeth Lock Washer Ø6	1			Program Switch	1
16 336713	<u>3515</u>	Flange Bolt M6×12	18		336713573	Outlet Cover L5-30R	1
17 336713	3516	External Teeth Lock Washer Ø6	1	87	336713574	Outlet Cover TT-30R	1
18 336713	<u>3517 </u>	Nut M6	4	88	357713541	Outlet Cover 5-20R	1
19 336713	3607	AVR	1		336713576	Flange Bolt M5×16(ground)	1
20 336713	3519	Flange Bolt M5×16	3	90	336713577	Nut M5(ground)	1
		Bolt &washer Assemblies	2	91	336713579	Flat Washer Ø5	2
		Generator End Cover Cap	1	92	336713580	Star Washer Ø5	1
		Ground Wire 2	1	93	336713581 336713582	Grommet Sleeve	
24 336713	3523	Terminal Block	1				1
25 336713	3524	Bolt &washer Assemblies	2	95	336713601 336713584 336713585 336713624 336713660 336713661 336713662 336713682 336713689	Receptacle L14-30R Receptacle TT-30R	1
		Carbon Brush Holder	1	96	336713584		1
27 336713	3526	Carbon Brush Assembly	1	97	330713303	Circuit Breaker Amp 20A	
28 336713	3527	Air Cleaner Bracket	1	98	226712660	Double-pole Circuit Breaker 15A Grommet	1
29 336713	3528	l Flange, Bolt M6×8	4	100	330713000	Receptacle 5-20R Duplex with 2 X USB	
30 336713	3529	Muffler Fixed Plate A(small)	1	100	226712620	Control Module	1
1 31 1336713	3530	l Muffler Fixed Plate B (big)	1	101	226712662		1
32 336713	3531	Flg. Bolt M8×20	3	102	336713602	Screw&washer Assy M5×60 Flat Washer(ø8.2×ø17×0.8)	1
32 336713 33 336713	3532	Muffler Gasket	1	103	226712690		
34 336/1	<u> 3533</u>	Flat Washer Ø8	2	104	336713689 336713593	Bracket, Handle Flange Bolt M8×45	1 2
35 336713	<u>3509 </u>	Lock Washer Ø8	2	105	336713594	Pin, Handle	1
36 336713	3534	Nut M8	2	100	336713690	Handle	1
37 336713	3535	Muffler Assembly	1	107	336713596	Handle Grip	1
38 336713	3536	Arrester, Spark	1	100	336713636	Carbon Canister Shield	1
		Holder, Spark Arrester	1		336713680	Vapor Hose 2	1
40 336713	3538	Screw&washer Assy M5×14	2	111	336713663	Vapor Hose 1	1
41 336713	3540	Clamp Ø8×6	5		336713637	Carbon Canister(650cc)	1
42 336713	3628	Fuel Tank Assy.	1	112	336713650	Carbon Canister Holder	1
43 336713	3542	Grommet, Fuel Tank	4		336713639	Carbon Canister Bracket	1
44 336713	3543	Washer Tank Buffer	4		336713664	Plug	2
1 45 1336713	3544	Flange Bolt M6×20	4	116	336713665	Maintenance Canister	1
46 33671	3545	Fuel Gauge Accy	1		336713666	Maintenance Canister Holder	1
47 336713	3546	Screw M5×10	2		336713644	Remote Holder	1
48 336713	3547	Screw M5×10 Fuel Gauge Display Fuel Filter, Wire Mesh	1		336713667	Adapter Holder	1
49 336713	3548	Fuel Filter, Wire Mesh	1		336713668	Adapter TT-30P To L5-30R	1
50 336713	3549	Fuel Cap	1		336713669	Adapter Outlet Cover	1
51 336713	3550	Hose, Fuel	1	122	336713600	Volt Selector Switch	1
52 336713	3551	Fuel Valve	1	123	336713670	LED Cover	3
53 336713	3552	Guard, Muff.	1	124	336713671	LED	6
		Frame	1	125	336713672	Circuit Breaker 8A	1
55 336713	3554	Axle Pin	2	126	336713673	Receptacle DC Lighter Style	1
56 336713	3555	Wheel	2	127	336713674	DC Outlet Cover	1
57 336713	3590	Cotter Pin	3			Control Panel Assy.	1
		Rubber, Support	2	129	336413519 336413520 336413521 336413522 336413523 336713642 330713509 336713692 330713633	Portablity Kit	1
		Nut M8	8	130	336413521	Rotor And Stator Assy.	1
60 336713	3559	Flange Bolt M8×16	2	131	336413503	Spark Arrestor Kit	1
61 336713	<u> 3686</u>	Support Leg	1	132	336413522	Handle Assembly	1
62 336713	3561	Flange Bolt M6×25	2	133	336413523	Support Leg Assembly	1
63 357713	3570	Boot Red	1	134	336713642	Remote Control	1
64 357713	3571	Boot Black	1	135	330713509	Remote Control Clip(Ø8.7×8)	1
65 336713	3656	Isolator 1	2	136	336713692	Battery cable(Male 120mm)	1
66 336713	3657	Isolator 1 Isolator 2	2	137	330713633	DC Charge Cable	1
67 336713	3578	Mut M5	1				
68 336713		Battery Pressing Plate	1				
69 336713	3610	Red Wire	1				
70 33671	3611	Boot	1				

FIRMAN 208cc Engine Parts List

NO.	David Married and	Di-ti	Qty.	NO.	David Niversity and	Description	Qty.
	Part Number				Part Number	Description	_
1	336723500	Crankcase Subassembly.	1	61	336723561	Cover, Air Cleaner	1
2	336723501	Locating Pins	2	62	336723556	Spark Plug	1
3	336723502	Sensor, Engine Oil	1	63	336723600	Choke Connector	1
4	336723503	Flange Bolt M6×12	8	64	336723601	Spring	1
5	336723504	Camshaft Assy.	1	65	336723602	Step Moter Holder	1
6	336723505	Bearing	2	66	336723603	Step Moter	1
7	336723506	Gear, crankshaft	1	67	336723604	Bolt M4×8	2
8	336723507	Woodruff Key	1	68	336723605	Step Moter Cover	1
9	336723508	Crankshaft	1	69	336723562	Control Assembly	1
10	336723509	Gear, drive	1	70	336723563	Shaft, Governor Arm	1
11	336723510	Gasket, Crankcase	1	71	336723564	Rocker Shim	1
12	336723511	Oil Dipstick Assy	1	72	336723565	Pin, Shaft	1
13	336723512	Cover, Crankcase	1	73	336723566	Arm, Governor	1
14	336723513	Seal, Oil	2	74	336723567	Bolt, governor Arm	1
15	336723514	Flg. Bolt M8×32	6	75	336723568	Spring, governor	1
16	336723515	Rod, Connecting	1	76	336723569	Rod. Governor	1
17	336723516	Clip, Piston Pin	2	77	336723570	Spring, Throttle Valve Returning	1
18	336723517	Pin, Piston	1	78	336723572	Wind Deflectors	1
19	336723518	Piston	1	79	336723573	Ignition Coil	1
20	336723519	Ring Set, Oil	1	80	336723574	Flg. Bolt M6×25	3
21	336723520	Ring, The Second	1	81	336723606	Wire Clip	2
22	336723521	Ring, The First	1	82	336723615	Lock Washer	2
23	336723522	Flg. Bolt M6×8	2	83	336723575	Protect Circle	1
24	336723523	Air Guide Lower	1	84	336723621	Fan Cover Comp	1
25		Gasket, Cylinder Head Cover	1	85	336723609	Flg. Bolt M6×29	1
26	336723525	Cover Subassembly, Cylinder Head	1	86	336723610	Locating Pins	2
27	336723526	Flange Bolt M6×15	7	87	336723611	Air Guide, Right Side	1
28	336723527	Flange Bolt M8×55	4	88	336723612	Sheath,wire	1
29	336723528	Nut. Valve Lock	2	89	336723580	Locknut	1
30	336723529	Nut Valve Adjusting	2	90	336723581	Pulley,starter	1
31	336723530	Breather Tube	1	91	336723582	Cooling Fan	1
32	336723531	Rocker, Valve	2	92	336723613	Flywheel Comp	1
33	336723532	Rotator, Valve	1	93	336723614	Starter Motor Assembly	1
34		Retainer, Intake Valve	1	94	336723584		1
35	336723533		1	95		Grip, starter	1
	336723534	Retainer, Exhaust Valve	2		336723585	Case Comp.,recoil Starter	1
36	336723535	Spring, Valve	2	96	336723586	Spring, starter Return	1
37	336723536	Oil Seal, Valve		97	336723587	Cord	
38	336723537	Bolt, Valve Adjusting	2	98	336723588	Pulley,recoil Starter	1
39	336723538	Plate Subassembly, Lifter Stopper	1	99	336723589	Spring,patchet	2
40	336723539	Exhaust Valves Stud Bolt	2		336723590	Patchet, starter	
41	336723540	Head Subassembly, Cylinder	1		336723591	Pawl Guide	1
42	336723541	Valve,in.take	1		336723592	Clip Sprg.,pawl Guide	1
43	336723542	Valve, Exhaust	1		336723593	Screw,pawl Guide	1
44	336723543	Push Rod	2		336723594	Gov.,gear Shaft	1
45	336723544	Tappet, Valve	2	105	336723595	Inner Washer,gear	2
46	336723545	Washer,drain Bolt	2		336723596	Gear, Governor	1
47	336723546	Bolt, Drain Plug	1		336723597	Clip, Govorner Gear	1
48	336723547	Locating Pins	2		336723598	Bushing, Govorner Gear	1
49	336723548	Gasket, Cylinder Head	1		336713532	Auspuffdichtung	1
50	336723549	Stud, Intake	2		336423500	Recoil Starter Set	1
51	336723550	Gasket, Inlet	1	111	336423501	Governing Gear Set	1
52	336723551	Plate, Carburetor Insulator	1		336423502	Air Cleaner Set	1
53	336723552	Gasket, Carburetor	1		336423506	Carburetor Set	1
54	336723599	Carburetor	1	114	336423504	Piston Rings Set	1
55	336723554	Gasket, Air Cleaner	2		336423507	Gasket Set	1
56	336723555	Nut M6	3		336713648	Easy Oil Drain	1
57	336723557	Elbow, Air Cleaner	1		336723604	Oil - Tight Bolt Seal Assy.	1
58	336723558	Clapboard	1		336723503	Flange Bolt M6×12	1
59	336723559	Mounting Bolt, Air Cleaner	4		336723623	Clip for Holding Oil Hose	1
60	336723560	Element, Air Cleaner	1		336423512	Oil drain Assembly	1
						,	

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SERVICE INFORMATION

CONTACT THE FIRMAN PRODUCT SERVICE DEPARTMENT AT

1-844-347-6261

or at

www.firmanpowerequipment.com
to obtain warranty service
information or to order
replacement parts or
accessories.

HOW TO ORDER REPLACEMENT PARTS

Even quality built equipment such as the electric generator you have purchased might 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. and all specifications shown on the Model No./Serial No. plate.
- 2. Parts number or numbers as shown in the Parts List section.
- 3. A brief description of the trouble with the generator.

REGISTER YOUR PRODUCT

Register your Firman generator online at www.firmanpowerequipment.com

WARRANTY

FIRMAN Three (3) Year Limited Warranty

Warranty Qualifications

FIRMAN GENERATOR will 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) 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 authoriz -ation, or at an unauthorized repair facility, will not be covered by this warranty.

Warranty Exclusions

This warranty does not cover the following repairs and equipment:

Normal Wear

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

Installation, Use and Maintenance

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

Normal maintenance is not covered by this warranty.

Other Exclusions

This warranty excludes:

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

Limits of Implied Warranty and Consequential Damage

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

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

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

Contact Information

You may contact FIRMAN at:

Address

Firman Power Equipment Inc. Attn: Customer Service 8716 West Ludlow Dr. Suite #6

Peoria, AZ 85381

www.firmanpowerequipment.com

We are FIRMAN POWER - And we are here for you.
Customer Service Desk - 1-844-347-6261(1-844-FIRMAN1)
6am PST(9am EST) until 8pm EST(5pm PST)
Technical Service Desk - 1-844-347-6261(1-844-FIRMAN1)
6am PST(9am EST) until 8pm EST(5pm PST)
24/7 Tech Support - 1-844-347-6261(1-844-FIRMAN1)

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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 2019-2020 or later Small Off-Road Engine ("SORE") and engine powered equipment. In California, new equipment that use small off-road engines must be designed, built and equipped to meet the State's stringent anti-smog standards. FIRMAN must warrant the emissions control systems on your SORE and engine powered equipment for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your small off-road engine or equipment leading to the failure of the emissions control system. Your emissions control system may include parts such as the carburetor or fuel-injection system, the ignition system, catalytic converter, fuel tanks, fuel lines (for liquid fuel and fuel vapors), fuel caps, valves, canisters, filters, clamps and other associated components. Also included may be hoses, belts, connectors, and other emission-related assemblies.

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

MANUFACTURER'S WARRANTY COVERAGE:

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

OWNER'S WARRANTY RESPONSIBILITIES:

As the SORE and engine powered equipment owner, you are responsible for the performance of the required maintenance listed in your owner'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 or support@firmanpowerequipment.com.

FIRMAN Emission Control Defects Warranty Provisions

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

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

The warranty on emissions-related parts is as follows:

- (1) Any warranted part that is not scheduled for replacement as required maintenance in the owner's manual supplied, is warranted for the warranty period stated above. If any such part fails during the period of warranty coverage, the part will be repaired or replaced by FIRMAN at no charge to the owner. Any such part repaired or replaced under the warranty will be warranted for the remaining warranty period.
- (2) Any warranted part that is scheduled only for regular inspection in the owner's manual supplied, is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.
- (3) Any warranted part that is scheduled for replacement as required maintenance in the owner's manual supplied, is warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part will be repaired or replaced by FIRMAN at no charge to the owner. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
- (4) Repair or replacement of any warranted part under the warranty must be performed at no charge to the owner at a warranty station.
- (5) Notwithstanding the provisions of Subsection (4) above, warranty services or repairs must be provided by FIRMAN that are franchised to service the subject engines.
- (6) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.
- (7) FIRMAN is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part.

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- (8) Throughout the emissions warranty period defined in Subsection (b)(2), FIRMAN will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.
- (9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of the manufacturer.
- (10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claim.

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

PARTS COVERED BY WARRANTY

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

- 1. Ignition system including:
- Spark plug
- Ignition coil
- 2. Fuel metering system:
- Fuel tank
- Fuel cap
- Fuel lines (for liquid fuel and fuel vapors) and related fittings/clamps
- Fuel regulator, carburetor and internal parts.
- 3. Catalytic muffler assembly including:
- Exhaust manifold
- Catalytic converter
- Muffler gasket
- -pulse valve

- 4. Air induction system including:
- Intake pipe/manifold
- Air cleaner
- 5. Crankcase breather assembly including:
- Breather connection tube
- 6. Fuel tank evaporative emission control system including:
- Purge valves
- Carbon canister
- Vapor hoses and fitting/clamps

Limitations

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

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

FIRMAN POWER EQUIPMENT INC.

Email: support@firmanpowerequipment.com www.firmanpowerequipment.com

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Firman Power Equipment Inc. 8716 West Ludlow Dr. Suite #6 Peoria, AZ 85381 www.firmanpowerequipment.com