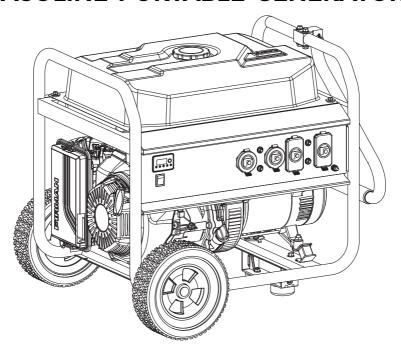
OPERATOR'S MANUAL GASOLINE PORTABLE GENERATOR









P06701

Rev Level:00

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

DO NOT RETURN TO STORE!
CALL US FIRST 1-844-347-6261
FOR QUESTIONS OR SERVICE INFORMATION

SERIAL NUMBE	R:	

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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

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.

SAFFTY INFORMATION **DANGER △** CAUTION ⚠ WARNING Indicates a hazard Indicates a hazard Indicates a hazard which, if not avoided, which, if not avoided. which, if not avoided, could result in minor or could result in death will result in death or moderate injury. or serious injury. serious injury.



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

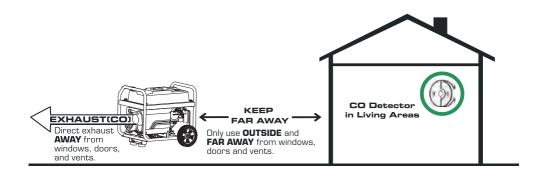
WARNING: This product and the engine exhaust from this product can expose you to chemicals including CO, which are known to the State of California to cause cancer or cause birth defects and other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

• 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.

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.

∧ WARNING



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.

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.

△ 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.

NOTICE

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.

NOTICE

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.

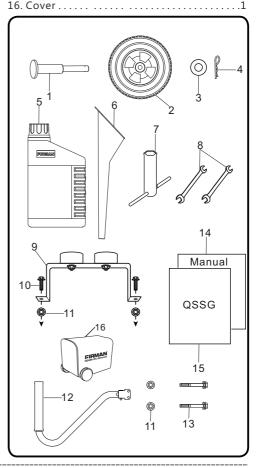
UNPACKING THE GENERATOR

- 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. Axle Pin
2. 10.0" in. Wheel
3. Flat Washer
4. Cotter Pin
5. Engine Oil(Bottle)
6. Oil Funnel
7. Wrench for Spark plug
8. Double Open wrench (10mm & 12mm) 2
9. Support Leg with Vibration Mounts
10. Flange Bolt (M8x16 for Support Leg) 2
11. Flange Lock Nut (M8)
12. Handle
13. Flange Bolt (M8x50 for Handle)
14. Manual
15. QSSG



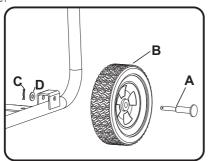
ASSEMBLY

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

Install the Wheel Kit

NOTICE

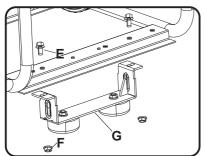
The wheel kit is not intended for over-the-road use.



- 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 flat washer **D**.
- 4. Secure the wheel and axle pin with the cotter pin ${\bf C}$.
- 5. Repeat steps 2-4 to attach another wheel.

Install the Support Leg

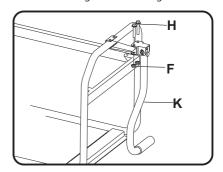
- 1. Attach the support leg **G** to the generator frame with flange bolts **E** (M8x16) and flange lock nuts **F**(M8).
- 2. Tip the generator slowly so that it rests on the wheels and support leg.
- 3. Tighten bolt **E** and nut **F** with provide wrenches.



Install the Handle

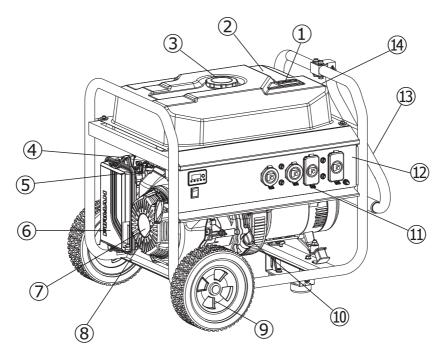
- 1. Place the handle **K** over the mounting channel on the frame.
- 2. Secure the handle to the frame using the two handle flange bolts **H**(M8x50).
- Place a flange nut F (M8) on the end of each bolt and fasten securely with provided wrenches.

DO NOT over tighten the flange nuts.



CONTROLS AND FEATURES

Generator

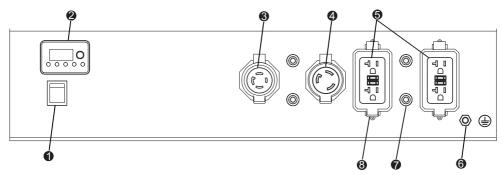


- 1- Fuel Gauge
- 2-8.0 Gallon(30L) Capacity Fuel Tank 10-Oil Filler Cap
- 3- Fuel Cap
- 4- Choke Lever
- 5- Fuel Valve
- 6- Air Filter
- 7-389cc FIRMAN OHV Engine
- 8- Recoil Starter

- 9- 10.0"(25.4cm) Flat Free Wheel
- 11- Outlet Cover
- 12- Control Panel
- 13- Handle
- 14- Data Decal

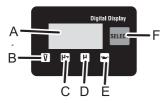
^{*}We are always working to improve our products. Therefore, the enclosed product may differ slightly from the image on this page.

Control Panel



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

- Engine Switch Flip the switch to the "ON(I)" position and pull the recoil starter to start the generator. Turn to the "OFF(O)" position to turn off the generator.
- 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
- 120/240V, 30A Twist Lock (NEMA L14-30R) Maximum 27.9 Amp current maybe drawn from this 120/240 Volt receptacle.
- 120V, 30A Twist Lock (NEMA L5-30R) Maximum 30 Amp current may be drawn from this 120 Volt receptacle.

- Directly 20A Duplex GFCI (Ground Fault Circuit Interrupter) (NEMA 5-20R)
 This receptacle is rated so that a total of 20 Amp may be drawn regardless of whether both halves or just one receptacle is used. Ground Fault Circuit Interrupter conforms to UL 943 and NEC requirements. This device protects you against hazardous electrical shock that may be caused if your body becomes a path through which electricity travels to reach ground. This could happen when you touch an appliance or cord that is " live " through faulty mechanism, damp or worn insulation, etc.
- **Ground Terminal** Consult an electrician for local grounding regulations.
- Outlet Cover Protect the receptacles from dust and debris.

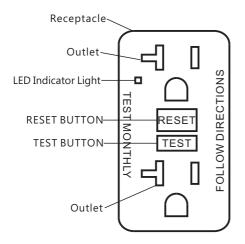
120VAC, 20AMP GFCI RECEPTACLE

This unit is equipped with a ground fault circuit interrupter (GFCI). This device meets applicable federal, state and local codes.

A GFCI receptacle is different from conventional receptacles. In the event of a ground fault, a GFCI will trip and quickly stop the flow of electricity to prevent serious injury.

Definition: Instead of following its normal safe path, electricity passes through a persons body to reach the ground. For example, a defective appliance can cause a ground fault.

A GFCI receptacle does NOT protect against circuit overloads, short circuits, or shocks. For example, electric shock can still occur if a person touches charged electrical wires while standing on a non-conducting surface, such as a wood floor.



Testing the GFCI: Test the GFCI outlet every month as follows:

- 1. Plug a test lamp into the receptacle.
- 2. Start the generator, the test lamp should be on.
- 3. Press the "Test" button located on the front of the receptacle to trip the device.
- 4. This should stop the flow of electricity making the lamp shut off. The GFCI's indicator light comes off.

- 5. To restore the flow of electricity, press the "RESET" button on the front of the receptacle. If the GFCI does not perform in this manner, do not use the receptacle. Contact a local service dealer or costumer service.
- 6. This outlet is protected against overload by a 20A push-to-reset circuit breaker. Use the outlet to power 120V AC, single-phase, 60 Hz, electrical loads requiring up to a combined 2400 watts (2.4 kW) or 20 amps of current.

SELF-TEST OPERATION

A Self-Test GFCI receptacle has all the features of a conventional GFCI receptacle. In addition, this receptacle tests itself periodically to confirm the GFCI electronics are functional. The Indicator Light will be solid green when the GFCI is powered from Line side 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.

SPECIFICATIONS

Model	P06701
Starting Watts	8350
Running Watts*	6700
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	389cc
Low Oil Shutdown	Yes
Ignition System	Breakless Ignition Type, Flywheel Magneto
Starting System	Recoil
Fuel	Unleaded Automotive Gasoline
Capacity Fuel Tank	8.0 Gallon (30L)
Lubricating Oil Capacity	37.2 oz(1.1L)
Carburetor Type	Float
Air Cleaner	Polyurethane Type
P.T.O. Shaft Rotation	Counter Clockwise (Facing P.T.O.)
Oil Type	See "Add Engine Oil" Section
AC Grounding System	Neutral Bonded To Frame

^{*}This generator is rated in accordance with ANSI/PGMA G300-2018.

AN IMPORTANT MESSAGE ABOUT TEMPERATURE:

Your FIRMAN generator has an operating temperature range of 5°F (-15°C) to 104°F (40°C). When operated above 73°F (23°C) there may be a decrease in power. Rated wattage is subject to, and limited by, such factors as fuel BTU content, altitude, ambient temperature, engine conditions, etc. Rated wattage 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 73°F(23°C). The generator may be operated at temperatures ranging from 5°F(-15°C) to 122°F(50°C). If the generator is exposed to temperatures outside this range during storage, the generator should be brought back within this range before operation.

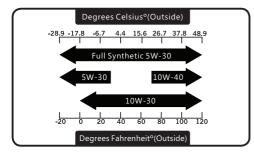
English Page 11 Customer Service: 1-844-FIRMAN1

Add Engine Oil

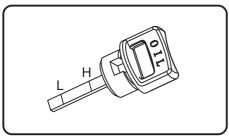
We recommend using FIRMAN SAE 10W-30 API SJ oil for best performance. Other high-quality detergent oils (API SJ or higher) are acceptable. Do not use special additives. Ambient temperature determines the proper oil viscosity for the engine. Use the chart to select the proper oil for the outdoor temperature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

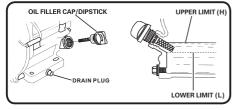
NOTICE

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

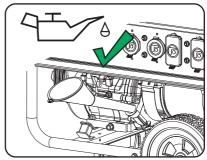


- 1. Place generator on a flat, level surface.
- 2.Clean area around oil fill and remove yellow oil fill cap/dipstick.
- 3. Wipe dipstick clean.





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.

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.

NOTICE

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% ethanol such as E85 or ethanol.

NOTICE 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 or serious injury.

WHEN ADDING FUEL

• Fill fuel tank outdoors.

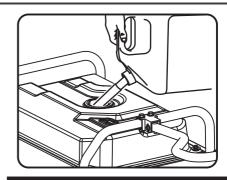
DO NOT overfill tank. Allow space for fuel expansion. If the tank is overfilled, fuel can overflow onto a hot engine and cause fire or explosion.

- 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.

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



△ CAUTION

- Slowly add unleaded gasoline to fuel tank.
- Do not overfill tank.
- Do not fill above top of fuel screen. This will all expansion in hot weather and prevent overflow.



NOTICE 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 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 spark plug 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.

	489cc	Altitude
Altitude main jet 1	357717002	3000-6000Feet (914-1828 m)
Altitude main jet 2	357717003	6000-8000Feet (1828-2438 m)

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.

Grounding

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. 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.

Connecting to a Building's Electrical System

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.

△ 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.

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.

NOTICE

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.









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.

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

NOTICE

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

- 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 "ON"(I) position.



6. Move the choke lever to the "**START**" position.



7. 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.

△ 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.

NOTICE

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.

NOTICE

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.

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.

NOTICE

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.Plug in and turn on the desired 120 or 240 Volt AC, single phase, 60Hz electrical loads. It is better to attach the item with largest load first.



Stopping the Engine

1. 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. Press the engine switch to the "OFF"(O) position.



Do not leave the generator until it has completely stopped.

3. 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 or serious injury.

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

NOTICE Always ensure that the fuel selector switch is in the "**OFF**" position when the engine is not in use.

NOTICE

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.

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 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 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.

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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.				√	
Fraire 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.*					√
gc	Clean combustion chamber.*					√
Fittings/ Fasteners	Check. Replace if necessary.				√	

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

General Recommendations

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

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

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

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

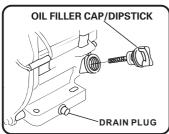
Change engine oil every 100 hours. (for a new engine, change oil after 25 hours.)

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.

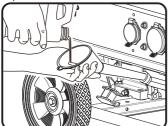
- Used motor oil has been shown to cause skin cancer in certain laboratory animals.
- Thoroughly wash exposed areas with soap and water.
- (a) Drain oil by removing the drain plug and the oil filler cap while the engine is warm.



NOTICE

Please use a container to dispose of the oil at an approved recycling center.

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



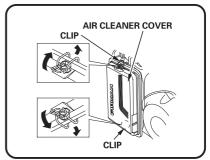
 Use fresh and high quality lubricating oil to the specified quantity.

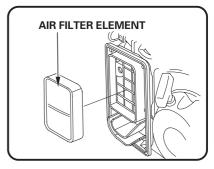
If contaminated or deteriorated oil is used or the quantity of the engine oil is not sufficient, engine damage will result and its life will be greatly shortened.

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 with clean engine oil squeeze it tight by hand.

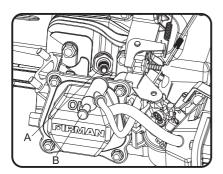


(c)Lastly, put the element in the case and install it securely.

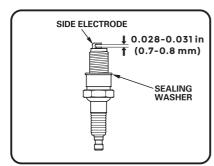
Spark Plug Maintenance

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 0.028" to 0.031" (0.7 to 0.8 mm).
- (e) Seat spark plug in position and thread by hand to prevent cross threading.
- (f) Tighten plug with provided wrench and put the cap back on spark plug.



SPARK PLUG: TORCH F6RTC NGK BPR6ES

CHAMPION RN9YC or equivalent.

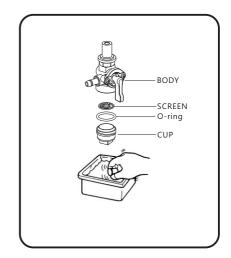
Maintenance Valve Clearance

- Intake: 0.004 0.006 in. (0.1 0.15 mm)
- Exhaust: 0.004 0.006 in. (0.1 0.15 mm)

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





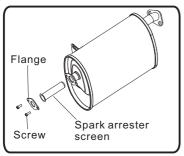
Exhaust heat/gases could ignite combustibles, structures or damage fuel tank causing a fire, resulting in death or serious injury and/or property. Contact with muffler area could cause burns resulting in serious injury.

- DO NOT touch hot parts and AVOID hot exhaust Failure to clean the spark arrester will result in 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.

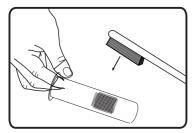
Clean or replace spark arrester as follows:

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.

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.

NOTICE

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 (172 kPa) to clear dirt and debris from the generator.

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

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SERVICE AND STORAGE

Infrequent Service

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

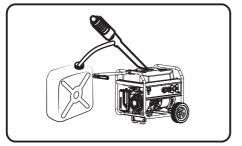
- Run the generator at least 30 minutes every month
- Run the generator, then close the fuel shut-off valve and allow the unit to run until the engine stops.
- 3. Move the engine switch to the "OFF" position.

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** If it is not practical to empty the fuel tank and **STABILIZER** to the tank if it is not already added. the unit is to be stored for some time, use a
- 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.



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.**

NOTICE

- 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.

△ WARNING

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

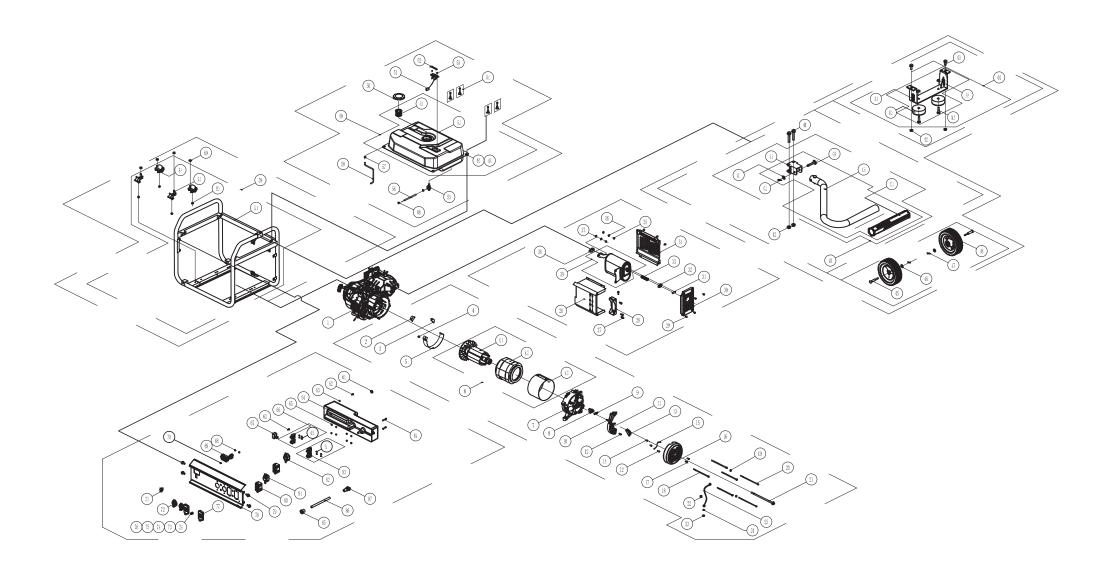
TROUBLE SHOOTING

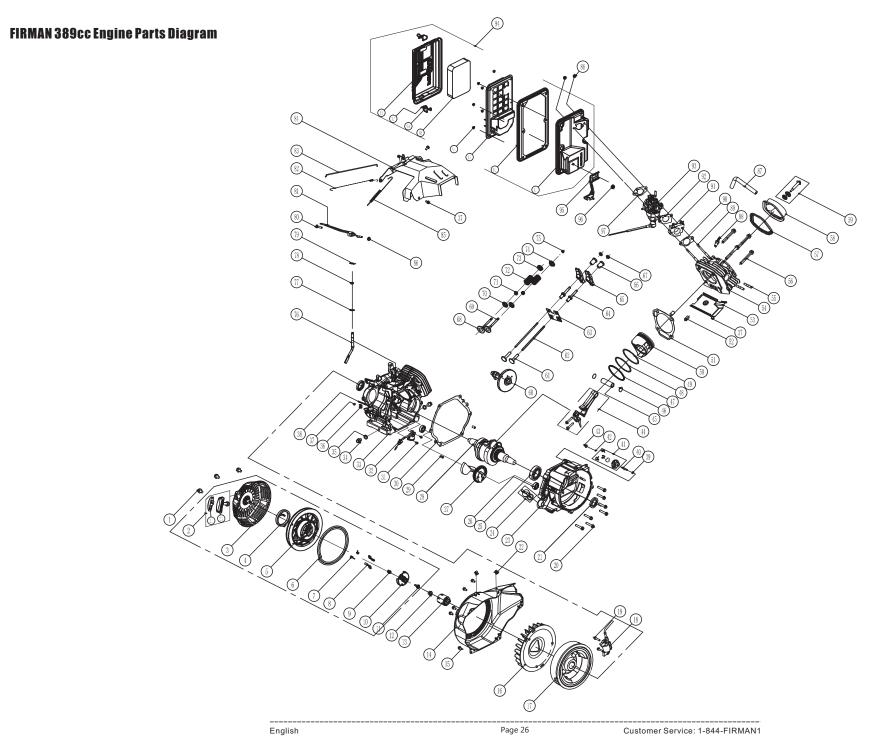
Problem	Cause	Correction
Engine is running, but no AC output is available.	 Circuit breaker is open. Fault in generator. Poor connection or defective cord set. Connected device is bad. 	Reset circuit breaker. Contact authorized service facility. Check and repair. Connect another device that is in good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

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PARTS DIAGRAM AND PARTS LIST

P06701 PARTS DIAGRAM





P06701 Parts List

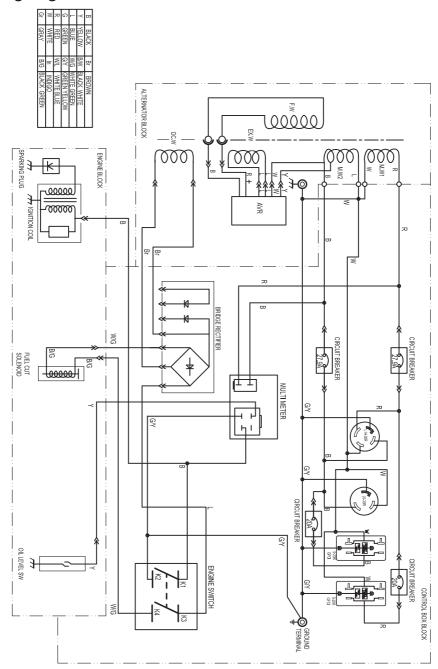
NO	Part Number	Description	Qty.	NO	Part Number	Description	Qty.
1	357713500	FIRMAN 389cc Engine	1		336713561	Flange. Bolt M6×25	2
2	357713501	Rubber Cap B	1		336723555	Nut M6	2
3	357713524	Build Up,fore-cover A	1		357713535	Axle Pin	2
4	336713528	Flange. Bolt M6×8	1	46		Flat Washer Ø10	2
5	357713573	Generator Wind Shield	1	47	357713536	Cotter Pin	2
6	367418300	Alternator Assy	1	48	357713534	Wheel	2
	367418301	Rotor Comp	1	49	357713528	Fuel Tank Assy	1
	367418302	Stator Assy	1	49.1	336713548	Fuel Filter, Wire Mesh	1
	357713505	Stator Cover	1		357713528	Fuel Tank	1
7	357713506	Generator End Cover	1	49.3	336713542	Grommet, Fuel Tank	4
8	357713507	Carbon Brush Assembly	1	49.4	357713600	Bushing	4
9	336713525	Carbon Brush Holder	1	50	336713549	Fuel Tank Cap Comp.	1
10	357713563	Bolt &washer Assemblies	1	51	357713529	Fuel Gauge Assy.	1
11	367718300	AVR	1	52	336713546	Screw M5×10	2
	336713519	Flange. Bolt M5×16	3	53	336713547	Fuel Gauge Display	1
13		Terminal Block	1	54	393713018	Bolt M6×20	4
	336713520	Bolt &washer Assemblies	2	55	336713551	Fuel Valve	1
	357713599	Neutral Wire	1	56	380713510	Hose,fuel	1
	357713509	Generator End Cover Cap	1	57	336713540	Clamp Ø8×6	1
17	336713507	Flange. Bolt M5×12	2	58	357713525	Formed Vapor Hose	1
18		Flange Bolt M6×179	4	59	357713562	Frame Assy	1
19	336713577	Nut M5	2	59.1	357718300	Frame	1
	357713510	Side Cover Bolt M5×214	2		357713531	Nut M10	4
21	357713510	Flange Bolt M10×265	1	59.3	357713532	Isolator II	2
22	336718301	Flange. Bolt M6×12	1	59.4	357713533	Isolator I	2
	336713517	Nut M6	1	60	357713531	Nut M10	4
24		External Teeth Lock Washer Ø6	2	61	336713564	Grommet	1
	357713601	Ground Wire	1	62		Screw M5×14	3
	357713523	Guard,muff.,back	1	63		Flat Washers	2
	336713531	Flange. Bolt M8×20	4	64	357713539	Control Box	1
	357713515	Bracket,muff	1	65	336713568	Nut M4	8
	336718302	Flange. Bolt M6×12	7	66		Circuit Breaker Amp 28a	2
	357713516	Protector, Muff.,side	1		336713569	Screw&washer Assy M4×8	4
31	336713538	Screw&washer Assy M5×14	2	67	357713565	Diode Module	1
32	357713517	Holder, Spark Arrester	1	68		Nut M3	2
	336713536	Arrester,spark	1	69	336713570	Multi Meter	1
34	357713518	Protector,muff.,front	1	70	336713569	Screw&washer Assy M4×8	1
	336713534	Nut M8	2	71	336718306	Engine Switch	1
	336713509	Spring Washer Ø8	2	72	336713573	Outlet Cover L5-30R	2
37	336713533	Flat Washer Ø8	2	73	357713542	Flange. Bolt M6×22	2
	357713520	Gskt.,ext.	1	74	357713543	Nut M6 Lock Washer Ø6	2
	357713521	Muff.,assy.	1	75 76	336713512 336713513	Flat Washer Ø6	2
	357413505	Handle Assembly	1	77	357713541	Outlet Cover 5-20R GFCI	2
	336713591	Flat Washer(ø8.2×ø17×0.8)	1	78	357713541	Control Panel	1
	336713590	Pin, Shaft	1	79	336718302	Flange. Bolt M6×12	4
	357713519	Cover, Handle	1	80		Receptacle GFCI	2
	336713594	Pin, Handle	1	81	336713832	Receptacle L5-30R	1
	357713526	Bracket, Handle	1	82		Receptacle L14-30R	1
	357713522	Handle	1	83		Circuit Breaker Amp20A	2
	357713527	Flange. Bolt M8×50	2		336713569	Screw&washer Assy M4×8	4
	336713558	Nut M8	4	84		Screw&washer Assy M5×38	1
	336713559	Flange. Bolt M8×16	2		357713545	Grommet	1
44		Support Leg Assembly	1	86	357713546	Sleeve	1
44.1	357713538	Support Leg	1	87	357713548	Grommet	1
	336713557	Rubber, Support	2	88	357713548	Clamp	2

FIRMAN 389cc Engine Parts List

		, Liigiilo i di ta Liat	١٠.
NO.	Part Number	Description	Qty.
1	336718310	Flg. Bolt M6×8	3
2	357723577	Grip,starter	1
2.1	336728300	Handle Core	1
	336728301	Recoil Starter Knob	1
3	357723579	Case Comp.,recoil Starter	1
4	357723580	Spring,starter Return	1
5	357723582	Pulley,recoil Starter	1
6	393723006	Cord	1
7	336723589	Spring, Patchet	2
8	336723590	Patchet, Ptarter	2
9	336723592	Clip Sprg., Pawl Guide	1
10	336723591	Pawl Guide	1
11	336723593	Screw, Pawl Guide	1
12	357723571	Nut, Shaft	1
13	357723572	Pulley,starter	1
14	357723570	Fan Cover Comp	1
15	336718302	Flg. Bolt M6×12	5
16	357723573	Cooling Fan	1
17	357723589	Flywheel Comp	1
18	357723568	Ignition Coil	1 1
19	336718311	Flg. Bolt M6×29	2
20	357723516	Flg. Bolt M8×40	7
21	357723515	Seal, Oil	2
22	336723606	Wire Clip	2
23	357723514	Cover,crankcase	1
24	357723513	Oil Dipstick Assy	1
25	357723506		1
		Bearing	2
26	357723505	Bearing	1
27	357723507	Balance Shaft	_
28	357723509	Crankshaft	1
29	336723501	Locating Pins	2
30	357723512	Gasket, Crankcase	1
31	357723504	Flg. Bolt M6×15	2
32	357723503	Sensor, Engine Oil	1
33	357723587	Crankcase Subassembly.	1
34	357723501	Bolt, Drain Plug	2
35	357723502	Washer,drain Bolt	2
36	336723612	Sheath,wire	1
37	336718301	Flg. Bolt M6×12	4
38	330723528	Wire Clip	1
39	336723595	Inner Washer,gear	1
40	357723586	Gov.,gear Shaft	1
41	357723585	Gear, Governor	1
42	336723597	Clip, Govorner Gear	1
43	357723584	Bushing, Govorner Gear	1
44	357723517	Rod, Connecting	1
45	357723519	Pin, Piston	1
46	357723518	Clip, Piston Pin	2
47	357723522	Ring Set, Oil	1
48	357723523	Ring, The Second	1
49	357723524	Ring, The First	1
50	357723520	Piston	1
51	357723545	Gasket, Cylinder Head	1
	357723544	Locating Pins(φ12×20)	2
521			
52 53	357723521	Air Guide Lower	1

NO.	Part Number	Description	Qty.
55	357723528	Exhaust Valves Stud Bolt	2
56	357723530	Flg. Bolt M10×80	4
57	357723525	Gasket, Cylinder Head Cover	1
58	357723526	Cover Subassembly, Cylinder Head	1
59	357723527	Bolt	1
60	357723508	Camshaft Assy.	1
61	357723543	Tappet, Valve	2
62	357723542	Push Rod	2
63	357723538		1
64		Plate Subassembly, Lifter Stopper	2
	336723537	Bolt, Valve Adjusting	
65	357723532	Rocker, Valve	2
66	336723529	Nut Valve Adjusting	2
67	336723528	Nut, Valve Lock	2
68	357723540	Valve,in.take	1
69	357723541	Valve, Exhaust	1
70	357723537	Retainer, Valve	2
71	357723536	Oil Seal, valve	2
72	357723535	Spring,valve	2
73	357723533	Retainer, Intake Valve	1
74	357723534	Retainer, Exhaust Valve	1
75	357723531	Rotator, Valve	1
76	357723567	Shaft, Governor Arm	1
77	336723564	Washer8.2×17×0.8	1
78	336718312	Seal, Oil	1
79	357723565	Pin, Shaft	1
80	336723567	Bolt,governor Arm	1
81	357723564	Arm, Governor	1
82	357723562	Spring, Throttle Valve Returning	1
83	357723563	Rod, Governor	1
84	357723560	Wind Guide, Top	1
85	357723561	Spring,governor	1
86	357723547	Nut M6	3
87	357723529	Breather Tube	1
88	336723556	Spark Plug	1
89	357723548	Stud, Intake	2
90	357723549	Gskt.,insulator	1
91	357723550	Plate, Carburetor Insulator	1
92	357723551	Gasket, Carburetor	1
93	357723588	Carburetor	1
94	357423502	Air Cleaner Assy	1
94.1	357723555	Elbow, Air Cleaner	1
94.2	393718310	Seal	1
94.3	357723556	Clapboard	1
94.4	357723557	Nut M5	6
94.5	357723558	Element, Air Cleaner	1
94.6	393728305	Lock I	1
94.7	393728306	Lock li	1
94.8	357723559	Cover, Air Cleaner	1
95	357723546	Air Cleaner Holder	1
96	336718313	Nut M6	3
97	357723554	Gasket, Air Cleaner	1

Wiring Diagram



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 W LUDLOW DR. SUITE 6 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 2020-2021 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.

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.

www.firmanpowerequipment.com

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