



# Owner's Manual

This manual contains important safety instructions for gasoline generator models: G2250S, G3250S that should be followed during operation and maintenance of the generator.

READ SAFETY WARNINGS AND OPERATING INSTRUCTIONS CAREFULLY, SAVE THESE INSTRUCTIONS.

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**DO NOT RETURN THIS GENERATOR  
TO THE STORE**

**HAVE QUESTIONS OR NEED HELP?**

call our help-line: [1] 919-550-3259

or go to [www.portablegenerator911.com](http://www.portablegenerator911.com) or [www.GXiOutdoorPower.com](http://www.GXiOutdoorPower.com)

Have the following information ready when you call us:

Date of Purchase: \_\_\_\_\_

Location of Purchase: \_\_\_\_\_

Serial #: \_\_\_\_\_

For more information or where to purchase STANLEY outdoor power equipment, visit us at: [www.GXiOutdoorPower.com](http://www.GXiOutdoorPower.com)



### Walk Behind Turf and Brush Mowers

- 36" Brush Mower
- HONDA GXV 530 V-twin engine
- Hydro Drive
- Convertible deck—easily converts to a finish mower.

### Zero-Turn Commercial Mowers

- 54" and 62"
- HONDA, Kawasaki, and Robin Subaru engines
- Hydro Drive



### Commercial Walk Behind Mowers

- 36" and 54" deck
- HONDA GXV 530 V-twin engine
- Belt drive or Hydro Drive

### 100" Tow Behind Mower

Model: 100TS

- Commercial duty STANLEY tow behind mower
- HONDA GXV 530 V-twin engine cuts up to 100 inches.
- 52 in. brush cut or a 52 in. finish cut mower with wings up.





### Electric Pressure Washers

- 1450 psi to 1800 psi electric pressure washers
- 20 ft of high pressure hose and 35 ft. cord with GFCI protection
- Sleek and unique, high quality stainless steel finish
- 13 Amps, 120V
- Auto-stop shut off system prolongs pump life

### Gas Pressure Washers

- 2350 psi to 2750 psi gas engine pressure washers
- 5 hp to 6.5 hp engines
- 25 ft of high pressure hose
- Adjustable wand end eliminates the need for multiple spray tips



### All Weather Storm Generators

- Patent pending, all weather design
- Safe to operate in rainy, wet conditions
- Commercial duty engine.
- No maintenance, copper, brushless alternator.

### Generator Cord Accessories

- 240V, 10/4, heavy duty extension cords with L14-30 connectors at each end.
- Reduces harmful voltage drops experienced when using smaller gauge cords.
- Available in 15' and 25' lengths
- Can be combined to reach the desired length.



This owner's manual is considered a permanent part of the generator and should remain with the generator if resold. The information and specifications included in this publication were in effect at the time of approval for printing.

GXi Outdoor Power, LLC, reserves the right to discontinue or change specifications or design at any time without notice and without incurring any obligation whatever. No part of this publication may be reproduced without written permission.

**EMISSION CONTROL SYSTEM INFORMATION**

The U.S. and California Clean Air Acts

EPA and California regulations require all manufacturers to furnish written instructions describing the operation and maintenance of emission control systems. The following instructions and procedures must be followed in order to keep the emissions from your STANLEY engine within the emission standards. Maintenance, replacement, or repair of the emission control devices and systems may be performed by any engine repair establishment or individual, using parts that are certified to EPA standards.

**SAFETY LABEL LOCATIONS**

These labels warn you of potential hazards that can cause serious injury. Read them carefully. If a label comes off or becomes hard to read, contact your STANLEY generator dealer for a replacement.

**SAFETY INFORMATION**

STANLEY generators are designed to give safe and dependable service if operated according to instructions. Read and understand this owner's manual before operating your generator.

**OPERATOR RESPONSIBILITY**

Know how to stop the generator quickly in case of emergency. Understand the use of all generator controls, output receptacles, and connections. Be sure that anyone who operates the generator receives proper instruction. Do not let children operate the generator.

 **DANGER**

**Electrocution hazard - Electricity can cause DEATH or SERIOUS INJURY.**

- Do not operate the generator when moisture is present.
- This product is not safe to operate in the presence of water or near water.
- Properly ground the generator and verify ground is in place before each use. Grounding regulations vary by location, consult a qualified local electrician for proper grounding instructions.
- Power cords and electrical equipment pose a risk of shock and electrocution, especially if they are operated in wet conditions. Inspect all equipment prior to every use and use only as directed by the manufacturer.
- Use a cord with GFCI protection when using the power outdoors or when moisture is present.
- Generators vibrate in normal use. During and after the use of the generator, inspect the generator as well as extension cords and power supply cords connected to it for damage resulting from vibration. Have damaged items repaired or replaced as necessary. Do not use plugs or cords that show signs of damage such as broken or cracked insulation or damaged blades.

**NEVER START OR STOP THE ENGINE WITH DEVICES CONNECTED TO THE GENERATOR.**

 **WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

 **DANGER**

**CARBON MONOXIDE GAS**

Exhaust contains poisonous carbon monoxide, a colorless and odorless gas. Breathing exhaust can cause loss of consciousness and may lead to death. To keep exhaust gas from accumulating, use in an area with adequate ventilation. **DO NOT** use this generator in a garage, basement, crawlspace, enclosed shed, or any other area that does not have adequate ventilation. **DO NOT** use this generator near ventilation ducts or open windows that may allow exhaust gasses to enter your home or business. **ONLY** operate this generator outdoors.

 **DANGER**

**Fire and Burn Hazards**

The exhaust system gets hot enough to ignite some materials.

- Keep the generator at least 3 feet (1 meter) away from buildings and other equipment during operation.
- Do not enclose the generator in any structure.
- Do not smoke when refueling.
- Keep flammable materials away from the generator.
- The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot.
- Let the engine cool before storing the generator indoors.
- Refuel in a well ventilated area with the engine stopped.
- Fuel vapors are extremely flammable and may ignite after the engine has started. Make sure that any spilled fuel has been wiped up before starting the generator.

 **WARNING**

**DO NOT CONNECT THIS GENERATOR TO A BUILDING ELECTRICAL SYSTEM.**

Improper connections to a building electrical system can allow electrical current from the generator to back-feed into the utility lines. Such back-feed may electrocute utility company workers or others who contact the lines during a power outage, and the generator may explode, burn, or cause fires when utility power is restored.

**Ground System**

STANLEY portable generators have a system ground that connects generator frame components to the ground terminals in the AC output receptacles. The system ground is connected to the AC neutral wire.

**Special Requirements**

There may be Federal or State Occupational Safety and Health Administration (OSHA) regulations, local codes, or ordinances that apply to the intended use of the generator. Please consult a qualified electrician, electrical inspector, or the local agency having jurisdiction.

**This generator does not meet US Coast Guard regulation 33 CFR-183 and should not be used on marine applications.**

**CSA and UL Warning**



**DANGER**

- (I) **WARNING: USING A GENERATOR INDOORS CAN KILL YOU IN MINUTES;**
- (II) **GENERATOR EXHAUST CONTAINS CARBON MONOXIDE, POISONOUS GAS YOU CANNOT SEE OR SMELL;**
- (III) **NEVER USE IN THE HOME OR IN PARTLY ENCLOSED AREAS SUCH AS GARAGES; AND USE ONLY OUTSIDE AND FAR FROM OPEN WINDOWS, DOORS, AND VENTS.**
- (IV) **THERE IS A PERMANENT CONDUCTOR BETWEEN THE GENERATOR (STATOR WINDING) AND THE FRAME. THE SYSTEM GROUND IS CONNECTED TO THE AC NEUTRAL WIRE.**
- (V) **THIS GENERATOR IS NOT DESIGNED TO CONNECT TO A BUILDING ELECTRICAL SYSTEM. DO NOT CONNECT THIS GENERATOR TO A BUILDING ELECTRICAL SYSTEM.**

**⚠ 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.**



**DANGER**

**AC Applications**

Before connecting an appliance or power cord to the generator:

1. Make sure that appliances are in good working order. Faulty appliances or power cords can create a potential for electrical shock. If an appliance begins to operate abnormally, becomes sluggish or stops suddenly, turn it off immediately.
2. Disconnect the appliance, and determine whether the problem is the appliance, or if the rated load capacity of the generator has been exceeded.
3. Make sure that the electrical rating of the tool or appliance does not exceed that of the generator. Never exceed the maximum power rating of the generator. Power levels between rated and maximum may be used for no more than 30 minutes.

**Substantial overloading will open the circuit breaker. Exceeding the time limit for maximum power operation or slightly overloading the generator may not switch the circuit breaker or circuit protector OFF, but will shorten the service life of the generator.**

Limit operation requiring maximum power to 30 minutes. For continuous operation (longer than 30 minutes), do not exceed 80% of the rated power balanced equally on the A&B sides of the Alternator. The total power requirements (VA) of all appliances connected must be considered. Appliance and power tool manufacturers usually list rating information near the model number or serial number.



**WARNING**

**Failure to properly follow maintenance instructions and precautions can cause serious injuries or death. Always follow the inspection and maintenance recommendations and schedules in this owner's manual.**

**Safety Precautions:**

Make sure the engine is off before you begin any maintenance or repairs. This will eliminate several potential hazards:

- **Carbon monoxide poisoning from engine exhaust.**  
Be sure there is adequate ventilation whenever you operate the engine.
- **Burns from hot parts.**  
Let the engine and exhaust system cool before touching.
- **Injury from moving parts.**  
Do not run the engine unless instructed to do so.

In the State of California a spark arrestor is required by law. Other states may have similar laws. Federal laws apply on all federal lands. If you equip the muffler with a spark arrestor, it must be maintained in effective working order. See page 13.

**Rapid retraction of the recoil starter cord can pull the starter cord back faster than you can let go. When starting the engine, pull the cord slowly until resistance is felt then pull rapidly to avoid kick-back.**



**DANGER**

**Changing the speed of the generator by adjusting the governor can cause damage to the generator, devices attached to the generator, and may result in bodily injury. Do not adjust or tamper with the engine speed setting.**

**Product Specifications**

Generator	G2250S	G3250S
Rated frequency	60 Hz	60 Hz
Rated voltage	120V	120V
Surge Power	2250 watts	3250 watts
Max continuous output power	1600 watts (Max.)	2250 watts (Max)
AC output (Max.)	12.1 amps	18.8 amps
Engine type	OHV 4-Stroke	OHV 4-Stroke
displacement	140 cc	173 cc
Compression ratio	8.5:1	8.5:1
Rated rotation speed	3600 RPM	3600 RPM
Rated power	5 Hp	6.5 Hp
Starting system	Recoil	Recoil
Rotation direction	clockwise	clockwise
Fuel type	Unleaded gasoline	Unleaded gasoline
Fuel tank size	0.4 gallons	0.4 gallons
Oil type	SAE 10W-30	SAE 10W-30
Oil Capacity	0.6 quarts	0.6 quarts
Gross weight	70 lb ( 31.75 kg)	77.5 lb (35.15 kg)

Recoil Starter (Assembly)

ON/OFF Switch

Generator models may have different features and/or options than shown in these diagrams. STANLEY reserves the right to alter product features and specifications without notice.

Muffler

Oil Fill and Oil Dipstick

Oil Drain Plug

Ground Lug

Main Breaker

Handles

Fuel Cap

Main Breaker

Serial # is located on the engine under the cover that contains the on/off switch.

NOTE: The serial number is also located on the box the generator was packaged in.

Cord Storage

Remote Generator Panel

GFCI Test and Reset buttons (optional, not included on all models)

Emissions information

Muffler

Valve Cover

Push Primer

Air Filter



**Note:** A spark arrestor was supplied with your generator and must be installed for use in locations that require it.

Approximate assembly time is 5 minutes.

Supplied with your generator:

Install four foot assemblies with 10 mm nuts.



Insert each foot assembly through holes in the frame. Tighten nuts with 10mm wrench or socket.

## Accessories

Optional Wheel and Handle Kit can be purchased separately:  
Call 1-919-550-3259 or  
[serviceandwarrantyonline.com](http://serviceandwarrantyonline.com)



Additional equipment required to safely operate this generator:

1. Gas can.
2. Unleaded gasoline.
3. SAE 10W-30, 0.6 quarts.
4. An oil fill funnel.
5. Gasoline fuel stabilizer (for storing your generator).
6. 120V extension cords.
7. An adjustable wrench or a 12mm socket for oil changes.



**WARNING**

The engine was shipped without engine oil. **DO NOT START THE ENGINE WITHOUT FILLING THE ENGINE WITH OIL.** Use SAE 10W-30 for normal conditions and SAE 5W-30 when the ambient temperature is below 32° F.

**Primer Bulb**

The primer provides an enriched fuel mixture when starting a cold engine. Push the primer bulb 3 to 5 times before starting a cold engine. Over priming the engine can result in fuel leaking from the carburetor and engine flooding.



**Recoil Starter**

To start the engine, pull the starter grip lightly until resistance is felt, then pull briskly.

**NOTICE:**

*Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.*

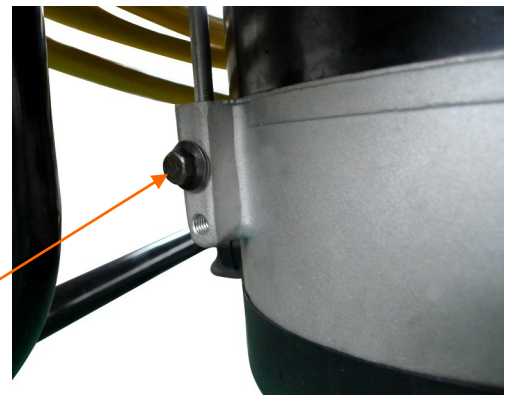


**Ground Terminal**

The generator ground terminal is connected to the frame of the generator, the metal non-current-carrying parts of the generator, and the ground terminals of each receptacle.

**WARNING**

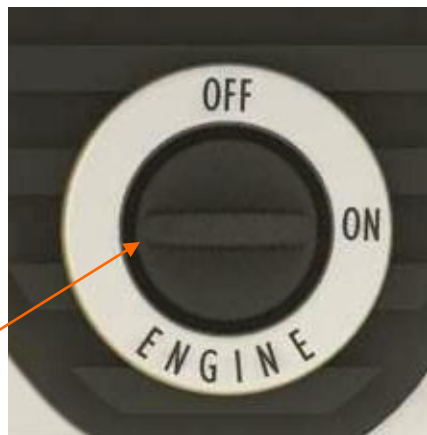
Before using the ground terminal, consult a qualified electrician, electrical inspector or local agency having jurisdiction for local codes or ordinances that apply to the intended use of the generator.



**NOTE: SYSTEM GROUND IS CONNECTED TO THE AC NEUTRAL ON THIS GENERATOR. CONSULT AN ELECTRICIAN FOR PROPER GROUNDING INSTRUCTIONS TO ENSURE GROUNDING MEETS THE LOCAL ELECTRICAL CODE**

**Engine Switch**

To start and stop the engine.



Engine ON / OFF switch

**! DANGER**

**CARBON MONOXIDE GAS**

Using a generator indoors **CAN KILL YOU IN MINUTES.**

Generator exhaust contains carbon monoxide (CO). This is a poison you cannot see or smell. If you can smell the generator exhaust, you are breathing CO. But even if you cannot smell the exhaust, you could be breathing CO.

**NEVER** use a generator inside homes, garages, crawlspaces, or other partly enclosed areas. Deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors does **NOT** supply enough fresh air.

**ONLY** use a generator outside and far away from windows, doors, and vents. These openings can pull in generator exhaust.

Even when you use a generator correctly, CO may leak into the home. **ALWAYS** use a battery-powered or battery-backup CO alarm in the home.

If you start to feel sick, dizzy, or weak after the generator has been running, move to fresh air **RIGHT AWAY**. See a doctor. You could have carbon monoxide poisoning.

**! DANGER**

**Electrocution hazard - Electricity can cause DEATH or SERIOUS INJURY.**

- Do not operate the generator when moisture is present.
- This product is not safe to operate in the presence of water or near water.
- Properly ground the generator and verify ground is in place before each use. Grounding regulations vary by location, consult a qualified local electrician for proper grounding instructions.
- Power cords and electrical equipment pose a risk of shock and electrocution, especially if they are operated in wet conditions. Inspect all equipment prior to every use and use only as directed by the manufacturer.
- Use a cord with GFCI protection when using the power outdoors or when moisture is present.
- Generators vibrate in normal use. During and after the use of the generator, inspect the generator as well as extension cords and power supply cords connected to it for damage resulting from vibration. Have damaged items repaired or replaced as necessary. Do not use plugs or cords that show signs of damage such as broken or cracked insulation or damaged blades.

**! WARNING**

**NEVER START OR STOP THE ENGINE WITH DEVICES CONNECTED TO THE GENERATOR.**

**Step 1.**

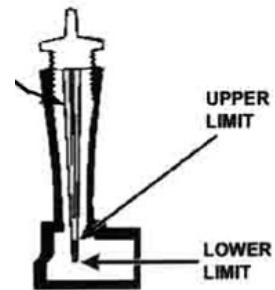
Ensure all electrical loads are removed from the generator. Disconnect all the extension cords. Remove all flammable materials and debris from the area. Make sure the generator is level and placed on a solid surface.

**Step 2.**

Check the oil level.

- Put the generator on a level surface with the engine stopped.
- Remove the oil filler cap.
- Check the oil level. If the oil level is low, fill it until the oil is at the full mark on the dipstick. It will take approximately 0.6 quarts of oil to fill the engine.

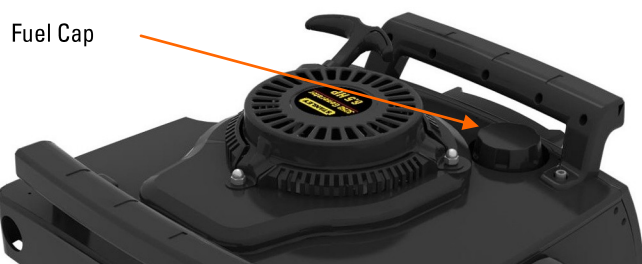
If additional oil is need, SAE 10W-30 engine oil is recommended for most general purpose applications. In cold weather climate, use SAE 5W-30.



**Step 3.**

Make sure there is gasoline in the fuel tank. Look at the fuel level indicated by removing the fuel cap to inspect the contents of the fuel tank. Tightly secure the fuel cap after your inspection is complete.

**Fuel can damage paint and plastic.** Be careful not to spill fuel when filling your fuel tank. Damage caused by spilling fuel is not covered under warranty. Use unleaded gasoline with a pump octane rating of 86 or higher. This engine is certified to operate on unleaded gasoline only. Unleaded gasoline produces fewer engine and spark plug deposits and extends exhaust system life. Never use stale or contaminated gasoline or an oil/gasoline mixture. Avoid getting dirt or water in the fuel tank.



**! WARNING**

**DO NOT** overfill the tank. Leave a 1 inch air gap in the tank.

**Gasoline is highly flammable and explosive.** You can be burned or seriously injured when refueling.

- Stop engine and keep heat, sparks, and flame away.
- Refuel only outdoors.
- Wipe up spills immediately.

This portable generator is not for use with gasoline/ethanol blends with over 15% ethanol.

**Step 4.**

Depress the primer bulb three to five times. See page 9 for a diagram of the primer.

**Step 5.**

Turn the generator ON/OFF switch to the "ON" position.

**Step 6.**

Start the engine—pull slightly on the cord until you feel some pressure. Once you feel the back-pressure building, rapidly pull the cord.

**Step 7.**

Let the generator warm up for approximately 3 minutes before applying any electrical loads.

**Step 8.**

Apply loads to the generator one at a time, allowing the generator to stabilize after you add each incremental load. Add the loads with the largest surge power requirement first. This would include refrigerators, air-conditioners, large motors, and pumps. Add smaller loads once the generator has stabilized with the larger loads.

**ALWAYS UNPLUG APPLIANCES AND REMOVE ALL ELECTRICAL LOADS BEFORE REFUELING. THEN FOLLOW STEPS 2 - 8.**

Connecting a load larger than this generator's power rating may damage the circuit breakers, alternator and sensitive appliances.

Continuously loading this generator above 80% of its maximum output power will shorten the life of the generator.

Balance the load evenly between the A and B outlets to maximize the output power.

Appliances with electric motors require an **additional 150% power** when they are starting up (indicated by an \* and in bold in the following chart).

**To determine maximum load that you may safely connect to this generator:**

1. Calculate the maximum continuous power required by adding up the running power of each appliance. The total running power of your appliances cannot exceed the maximum output power of this generator.
2. Calculate the surge power by:
  - i) Adding up the running power of each appliance with an \* and in bold below.
  - ii) Multiplying the total by 1.5.
  - iii) Adding this to the total running power calculated in step 1 above.

The surge power requirements of your appliances cannot exceed the surge power rating of this generator.

**Typical Residential Loads**

Appliance	Running Power
Light bulbs (each)	75 Watts
Stove element (each)	1000 Watts
Microwave	1500 Watts
Coffee maker	700 Watts
Television	750 Watts
VCR	250 Watts
Computer & monitor	800 Watts
Space heater	1500 Watts
Washing machine	1000 Watts
NG clothes dryer	750 Watts
Electric clothes dryer	5500 Watts
Dishwasher	1850 Watts
Water heater	5000 Watts
Electric furnace	5000 Watts
Toaster	1200 Watts
<b>Box fan*</b>	<b>750 Watts</b>
<b>Window A/C - 8000 BTU*</b>	<b>2400 Watts</b>
<b>Central A/C (per ton)*</b>	<b>2800 Watts</b>
<b>Furnace blower*</b>	<b>850 Watts</b>
<b>2 hp well pump*</b>	<b>2000 Watts</b>
<b>Refrigerator*</b>	<b>1000 Watts</b>
<b>Freezer*</b>	<b>1000 Watts</b>

**STOPPING THE GENERATOR**

**In an emergency:**

To stop the engine in an emergency, move the engine switch to the OFF position.

**In normal use:**

1. Disconnect all loads and extension cords.
2. Allow the engine to run with no load for 3 minutes.
3. Turn the engine switch to the OFF position.
4. Allow the generator to cool off before touching any engine or alternator components. It may take as long as 30 minutes before the generator is cool enough to touch safely.



**WARNING**

For power outages, permanently installed stationary generators are better suited for providing backup power to the home. Even a properly connected portable generator can become overloaded. This may result in overheating or stressing the generator components, possibly leading to a generator failure.

Do not connect this generator to your home or a building electrical system.

### MAINTENANCE

#### The Importance of Maintenance

Good maintenance is essential for safe, economical, and trouble-free operation. It will also help reduce air pollution.

To help you properly care for your generator, the following pages include a maintenance schedule, routine inspection procedures, and simple maintenance procedures using basic hand tools. Other service tasks that are more difficult, or require special tools, are best handled by professionals and are normally performed by a STANLEY technician or other qualified mechanic.

The maintenance schedule applies to normal operating conditions. If you operate your generator under severe conditions, such as sustained high-load or high-temperature operation, or use it in unusually wet or dusty conditions, consult your servicing dealer for recommendations applicable to your individual needs and use.

**Maintenance, replacement, or repair of the emission control devices and systems may be performed by any engine repair establishment or individual, using parts that are certified to EPA standards.**

#### Maintenance Schedule

Item	Before each use	20 hrs or 3 months	50 hrs or 3 months	100 hrs or 6 months	300 hrs or 1 year
Engine oil (Check)	X				
Engine Oil (Change)			X		
Air Cleaner (Check)	X				
Air Cleaner Wash			X		
Fuel filter Cup (Clean)				X	
Spark Plug (Clean)				X	
Spark Plug (Change)					X
Optional Spark Arrestor (Clean)			X		
Valve Clearance (Adjust)				X*	
Combustion Chamber (Clean)					X*

\* Should be performed by an authorized STANLEY service center.

#### Replacement Parts

The emission control systems on your STANLEY engine were designed, built, and certified to conform with EPA and California emission regulations. We recommend the use of genuine STANLEY parts whenever you have maintenance done. These original-design replacement parts are manufactured to the same standards as the original parts, so you can be confident of their performance. The use of replacement parts that are not of the original design and quality may impair the effectiveness of your emission control system.

A manufacturer of an aftermarket part assumes the responsibility that the part will not adversely affect emission performance. The manufacturer or rebuilder of the part must certify that use of the part will not result in a failure of the engine to comply with emission regulations.

#### Engine Oil Change

Drain the oil while the engine is warm to assure rapid and complete draining.

1. Remove the drain plug and sealing washer, remove the oil filler cap, and drain the oil.
2. Reinstall the drain plug and sealing washer. Tighten the plug securely.
3. Refill with the recommended oil (SAE 10W-30) and check the oil level.

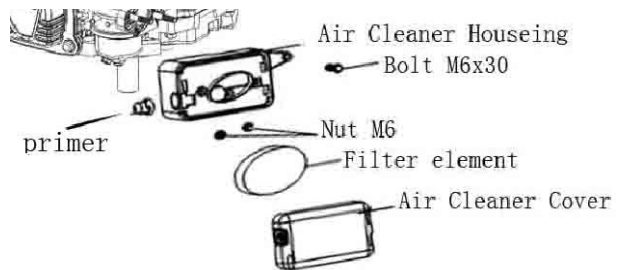
Dispose of used motor oil in a manner that is compatible with the environment. Do not throw it in the trash, pour it on the ground, or down a drain.

#### Air Cleaner Service

A dirty air cleaner will restrict air flow to the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dusty areas.

#### NOTICE:

Never run the generator without the air filter. Rapid engine wear will result.



1. Remove the air cleaner cover. Be careful to prevent dirt and debris from falling into the air cleaner base.
2. Separate the Filter element from the air cleaner housing
3. Inspect the air cleaner elements.
4. Clean or replace dirty elements.

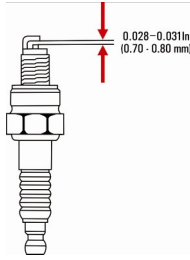
#### Spark Plug Service

In order to service the spark plug, you will need a spark plug wrench. Recommended spark plugs: BPR5ES (NGK) and W16EPR-U (DENSO). To ensure proper engine operation, the spark plug must be properly gapped and free of deposits.

**If the engine has been running, the muffler will be very hot. Be careful not to touch the muffler.**

1. Remove the spark plug cap.
2. Clean any dirt from around the spark plug base.
3. Use a spark plug wrench to remove the spark plug.

4. Visually inspect the spark plug. Discard it if the insulator is cracked, chipped or fouled.
5. Measure the plug gap with a feeler gauge. Correct as necessary by carefully bending the side electrode. The gap should be: 0.028 to 0.031 in (0.70 to 0.80 mm)
6. Check that the spark plug washer is in good condition, and thread the spark plug in by hand to prevent cross-threading.
7. After the spark plug is seated, tighten with a spark plug wrench to compress the washer.



If installing a new spark plug, tighten 1/2 turn after the spark plug seats to compress the washer. If reinstalling a used spark plug, tighten 1/8 to 1/4 turn after the spark plug seats to compress the washer.

**NOTICE:**

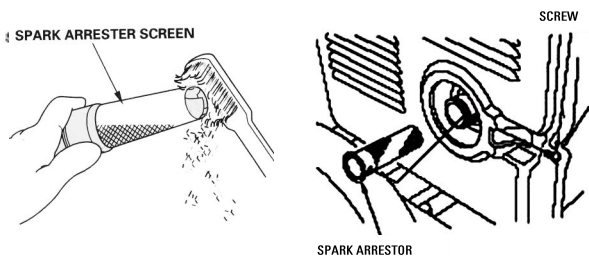
The spark plug must be securely tightened. An improperly tightened spark plug can become very hot and could damage the engine. Use only the recommended spark plugs or equivalent.

**Optional Spark Arrestor Maintenance**

If the generator has been running, the muffler will be very hot. Allow it to cool before proceeding. *The spark arrestor must be serviced every 50 hours to keep it functioning as designed.*

Clean the spark arrestor as follows:

1. Loosen the screw by the exhaust port of the muffler and remove the spark arrestor.
2. Use a brush to remove carbon deposits from the spark arrestor screen. Inspect the screen for breaks or tears and replace it if necessary.
3. Install the spark arrestor in the reverse order of removal.



**TRANSPORTING**

When transporting the generator, turn the engine switch and the fuel valve OFF. Keep the generator level to prevent fuel spillage. Fuel vapor or spilled fuel may ignite.

Take care not to drop or strike the generator when transporting. Do not place heavy objects on the generator. When transporting the generator by loading it on to a vehicle, secure to the generator as shown.



**Contact with a hot engine or exhaust system can cause serious burns or fires. Let the engine cool before transporting or storing the generator.**

**STORING**

Before storing the unit for an extended period:

1. Be sure the storage area is free of excessive humidity and dust.
2. Service according to the table below:

STORAGE TIME	Recommended Service Procedure to prevent hard starting:
1 to 2 months	Fill with fresh gasoline and add gasoline stabilizer*.
2 months to 1 year	Fill with fresh gasoline and add gasoline stabilizer*. Drain the carburetor float bowl.
1 year or longer	Fill with fresh gasoline and add gasoline stabilizer*. Drain the carburetor float bowl. Remove the spark plug. Put a tablespoon of engine oil into the cylinder. Turn the engine slowly with the recoil starter to distribute the oil. Reinstall the spark plug. Change the engine oil. After removal from storage, drain the stored gasoline into a suitable container, and fill with fresh gasoline before starting.
* Use gasoline stabilizers that are formulated to extend storage life. Contact your authorized STANLEY generator dealer for conditioner recommendations.	



**Gasoline is extremely flammable and is explosive under certain conditions. Perform this task in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area during this procedure.**

Symptom:	Potential Causes	Solution
Engine won't start	Engine Switch in off position	Turn engine switch to on position
	Spark arrestor clogged	Remove spark arrestor, clean and replace.
	Cold engine needs to be primed	Press primer bulb 3 to 5 times.
	Oil level too low	Fill oil to top of opening with recommended grade of oil.
	Fuel filter is dirty	Check for fuel flow to carburetor by removing drain screw. Clean or replace fuel filter.
	Fuel is contaminated	Drain fuel tank and carburetor. Replace or clean filter and carburetor float bowl. Fill tank with clean fuel.
	Spark plug boot off/loose	Press spark plug boot firmly on spark plug.
	Spark plug fouled or failed	Remove spark plug, clean or replace
	Carburetor clogged	Remove float bowl and clean components and jets. Replace carburetor if varnish or gum has accumulated from improper storage.
Recoil is hard to pull	Spark arrestor clogged	Remove, clean and replace.
	Valve clearance too large	Rest exhaust valve clearance to .008", call customer help line.
Engine starts, but then shuts off after running for short time	Remove/Clean spark arrestor	Remove, clean and replace.
	Out of fuel	Fill tank with fuel and turn fuel valve on
	Spark plug fouled or failed	Remove spark plug, clean or replace
Engine runs: rough/vibrating/oscillating	Remove/Clean spark arrestor	Remove, clean and replace.
	Over loading generator	Disconnect some appliances
	Air filter is dirty	Clean air filter
	Fuel filter is dirty	Check for fuel flow to carburetor by removing drain screw. Clean or replace fuel filter.
	Fuel is contaminated	Drain fuel tank and carburetor. Replace or clean filter and carburetor float bowl. Fill tank with clean fuel.

Symptom:	Potential Causes	Solution
Engine runs, low speed, bogs down under load	Remove/Clean spark arrestor	Remove, clean and replace.
	Over loading generator	Disconnect some appliances / devices
	Air filter is dirty	Clean air filter
	Fuel filter is clogged	Contaminates will clog filter, not allowing fuel to get to engine
	Fuel filter is dirty	Check for fuel flow to carburetor by removing drain screw. Clean or replace fuel filter.
	Fuel is contaminated	Drain fuel tank and carburetor. Replace or clean filter and carburetor float bowl. Fill tank with clean fuel.
Engine Oil Leak	Oil drain plug loose	tighten both drain plugs
	Debris under oil drain plug gasket	Remove drain plug and debris. Inspect gasket for damage and replace if damaged.
	Loose crankcase bolt(s)	Tighten crankcase bolts
	Valve cover bolt loose	Tighten bolt
	Oil leaking from shaft	Oil seals failed, call customer help line
Fuel leaking out of carburetor	Fuel drain screw loose	Tighten fuel drain screw
	Carburetor float seat not seating	Flush with clean fuel
Engine runs, no power to outlets	Breaker tripped	Disconnect all loads and press breaker button to reset.
	Disconnected or damaged wiring inside unit	Call customer helpline
	Faulty extension cord/power strip	Use different power strip or extension cord
	Breaker or GFCI tripped on extension cord or power strip	Reset breaker and remove loads from power strip
Voltage too high/low	Engine speed low or high	Call Customer Helpline
	Alternator damaged	Call customer helpline
	Speed screw damaged or bent	Call customer helpline

PRODUCTS COVERED BY THIS WARRANTY:	LENGTH OF WARRANTY:*	
	(FROM THE DATE OF ORIGINAL RETAIL PURCHASE)	
	RESIDENTIAL	COMMERCIAL
Engine	12 months	30 days
Alternator	12 months	30 days
Electrical and Frame Components	90 days	30 days
Emission Controls	24 months	24 months

**TERM OF THIS WARRANTY:**

This generator is warranted to be free of defects in materials and workmanship under normal residential use for a period of 1 year. This warranty applies to the engine and alternator for 1 year. (Normal wear and maintenance items such as the cord, GFCI breaker, outlets and other attachments are warranted for 90 days.) Warranty repairs will be made without charge for parts and labor for the first 90 days from the date of purchase. After the first 90 days, this limited warranty covers the costs of replacement parts on the generator only. Any commercial, industrial or rental use of the product will reduce the term of this warranty to 30 days for all components.

**TO QUALIFY FOR THIS WARRANTY:**

The product must be purchased in the United States from a dealer authorized by GXi Outdoor Power, LLC to sell those products. This warranty applies to first retail purchaser / owner during the applicable warranty time period. **SAVE YOUR PROOF OF PURCHASE RECEIPT.**

**WHAT STANLEY POWER EQUIPMENT WILL REPAIR OR REPLACE UNDER WARRANTY:**

GXi Outdoor Power, LLC will repair or replace, at its option, any part that is proven to be **defective in material or workmanship** under normal use during the applicable warranty time period subject to the exclusions stated herein. This warranty is void if the owner fails to follow the prescribed maintenance and operating procedures described in this manual. This specifically refers to ensuring routine oil changes are made, that fuel stabilizer is used for long-term storage, that the generator is not overloaded. Dirty carburetors, spark plugs, air filters, fuel filters, and freight or handling damage are not covered under warranty.

GXi Outdoor Power, LLC has the right to recover warranty administration costs from the owner if the root cause of the malfunction was found to be other than defective material or workmanship. In particular, this warranty does not cover: contaminants in the fuel or oil; damage caused by not following the prescribed warnings and operating practices; failure to follow proper maintenance and storage procedures; and physical damage due to shipping or handling or storage. Damage to the generator that occurs as a result of overloading the generator or connecting the generator to household wiring. Parts replaced under warranty become the property of GXi Outdoor Power, LLC. Parts replaced under warranty will be considered as part of the original product and any warranty on those parts will expire coincident with the original product warranty.

**TO OBTAIN WARRANTY SERVICE:**

You must take the STANLEY Power Equipment product, accessory, replacement part, apparel or the power equipment on which the accessory or replacement part is installed, and proof of purchase, at your expense, to any STANLEY Power Equipment service location in the United States, who is authorized to service that product, during the service location's normal business hours. If you are unable to obtain warranty service, or are dissatisfied with the warranty service you receive, take the following steps: First, contact the manager of the service center involved; normally this will resolve the problem. However, if you should require further assistance, write or call the GXi Outdoor Power, LLC Customer Service.

**EXCLUSIONS:**

THIS WARRANTY DOES NOT EXTEND TO PARTS AFFECTED OR DAMAGED BY ACCIDENT AND/OR COLLISION, NORMAL WEAR, FUEL CONTAMINATION, USE IN AN APPLICATION FOR WHICH THE PRODUCT WAS NOT DESIGNED OR ANY OTHER MISUSE, NEGLIGENCE, INCORPORATION OR USE OF UNSUITABLE ATTACHMENTS OR PARTS, UNAUTHORIZED ALTERATION, OR ANY CAUSES OTHER THAN DEFECTS IN MATERIAL OR WORKMANSHIP OF THE PRODUCT. Consumable parts such as oil, spark plugs, filters, carburetors, are not covered by this warranty.

**DISCLAIMER OF CONSEQUENTIAL DAMAGE AND LIMITATION OF IMPLIED WARRANTIES:**

STANLEY DISCLAIMS ANY RESPONSIBILITY FOR LOSS OF TIME OR USE OF THE PRODUCT, TRANSPORTATION, COMMERCIAL LOSS, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGE. ANY IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THIS WRITTEN LIMITED WARRANTY.

This warranty is void if the manufacturing date and the serial number on the equipment has been removed or the equipment has been modified.

**EMISSION CONTROL SYSTEM INFORMATION**

The U.S. and California Clean Air Acts

EPA and California regulations require all manufacturers to furnish written instructions describing the operation and maintenance of emission control systems. The following instructions and procedures must be followed in order to keep the emissions from your STANLEY engine within the emission standards. Maintenance, replacement, or repair of the emission control devices and systems may be performed by any engine repair establishment or individual, using parts that are "certified" to EPA standards.

The emission control systems on your STANLEY engine were designed, built, and certified to conform with EPA regulations. We recommend the use of genuine STANLEY parts whenever you have maintenance done. These original-design replacement parts are manufactured to the same standards as the original parts, so you can be confident of their performance. The use of replacement parts that are not of the original design and quality may impair the effectiveness of your emission control system. A manufacturer of an aftermarket part assumes the responsibility that the part will not adversely affect emission performance. The manufacturer or re-builder of the part must certify that use of the part will not result in a failure of the engine to comply with emission regulations.

Emission controls are covered by this warranty for all uses for a period of 2 years from original retail purchase date, this coverage extends to subsequent owners of the product with proof of original purchase. For emissions warranty service call 1-800-393-0668 or e-mail customerservice@gxioutdoorpower.com .