



# YARDWORKS<sup>TM/MC</sup>

## Portable Generator

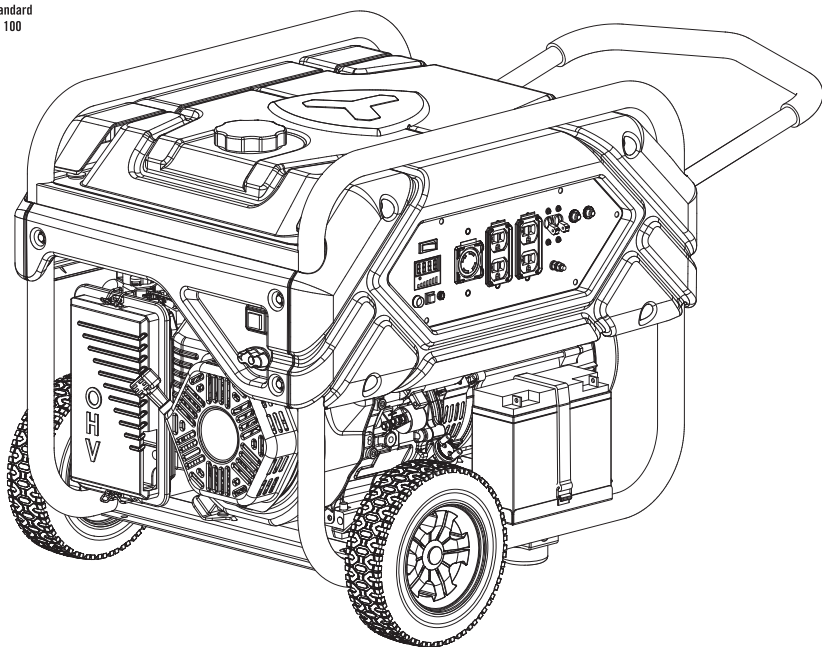
model number 055-0362-8 | contact us: 1.866.523.5218



**Intertek**

4010077

Certified to  
CAN/CSA Standard  
C22.2 No. 100



### IMPORTANT:

Read and follow all safety rules and operating instructions before using this product.

**Instruction  
Manual**

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Starting Watts	7200
Running Watts	6000
AC Voltage	120/240 V
Phase	Single
Frequency	60 Hz
Fuel Capacity	9 gal (34 L)
Gross Weight	219 lb 13 oz (99.7 kg)
Net Weight	200 lb 3 oz (90.8 kg)
Length	29 1/8" (74 cm)
Width	27 9/16" (70 cm)
Height	26 11/16" (67.8 cm)
Oil Capacity	1.2 qt (1.1 L)
Battery Size	12 V, 15 Ah
Engine Size	439 cc

## FUEL

Fuel capacity is 9 gal (34 L). Use regular unleaded gasoline with a minimum octane rating of 87 and an ethanol content of less than 10% by volume.

## MAINTENANCE VALVE CLEARANCE

Intake: 0.005–0.007" (0.13–0.17 mm)

Exhaust: 0.007–0.009" (0.17–0.22 mm)

## SPARK PLUGS

**OEM spark plug:** NHSP F6RTC

**Replacement spark plug:** NGK BPR6ES or equivalent

Make certain the spark plug gap is 0.028–0.031" (0.7–0.8 mm).

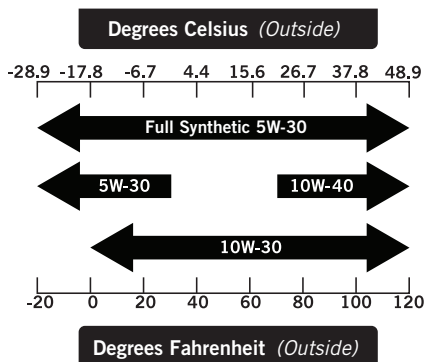
## OIL

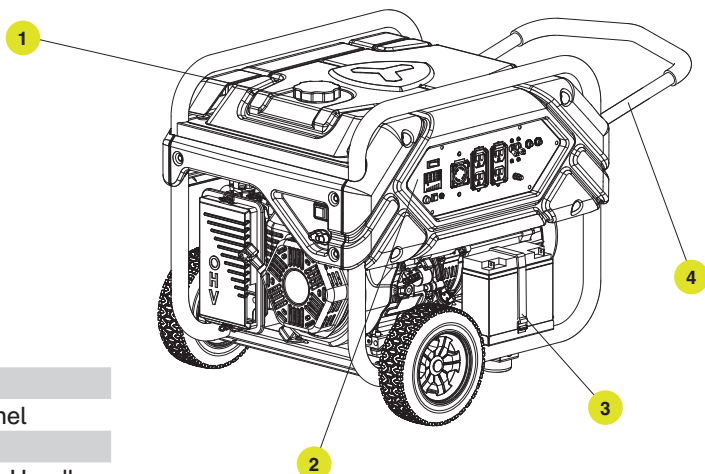
Use 10W-30 automotive oil.

Oil capacity is up to 1.2 qt (1.1 L).

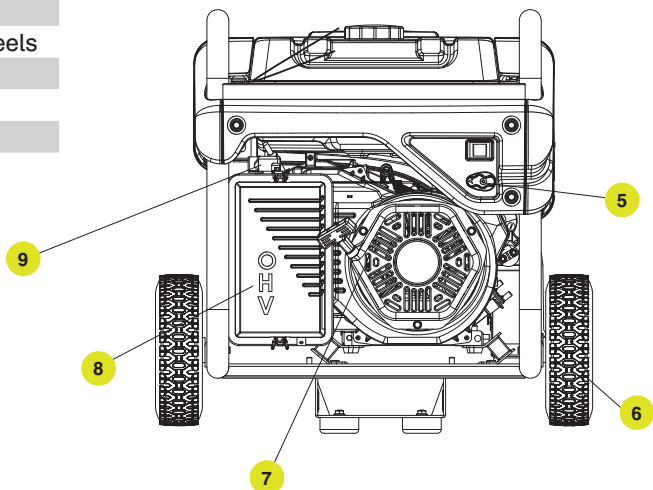
**DO NOT OVERFILL.**

Please reference the following chart for recommended oil types for use in the generator.





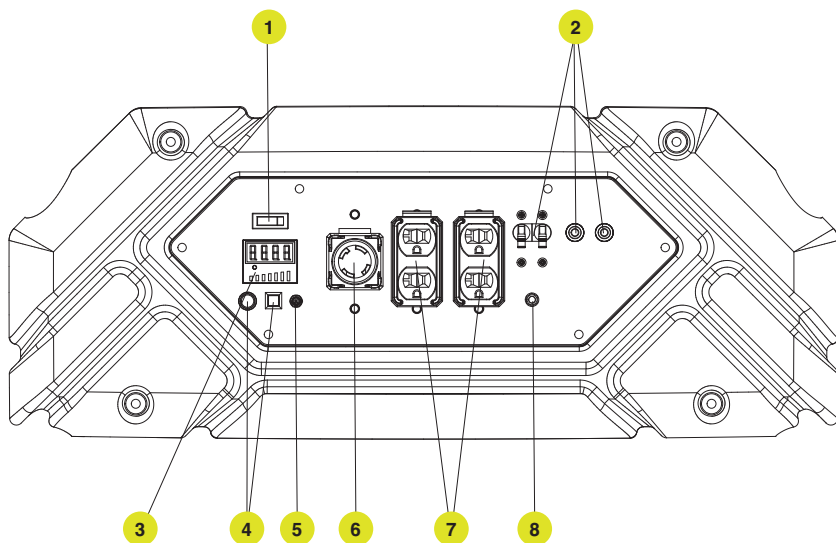
1. Fuel Tank
2. Power Panel
3. Battery
4. Fold-away Handle
5. Fuel Valve
6. Never-flat Wheels
7. Recoil Starter
8. Air Filter
9. Choke



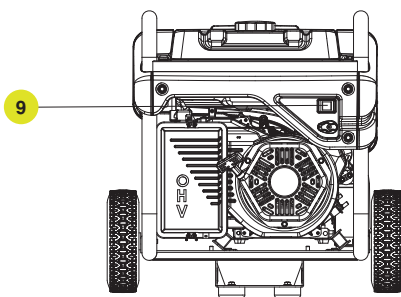
## KNOW YOUR GENERATOR

Before attempting to assemble or operate your generator, please become familiar with the major parts and components.

- Know where to refuel the generator.
- Know where and how to turn the fuel supply off and on.
- Know where and how to start the generator manually in the event the battery is dead.



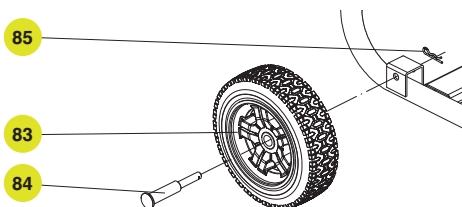
1. Battery Switch
2. Circuit Breakers
3. Power Meter and Fuel Life Meter
4. Remote Reset Light and Button
5. 12 V Charger Outlet
6. L14-30R Outlet
7. 5-20R Duplex (2)
8. Ground
9. Engine Switch



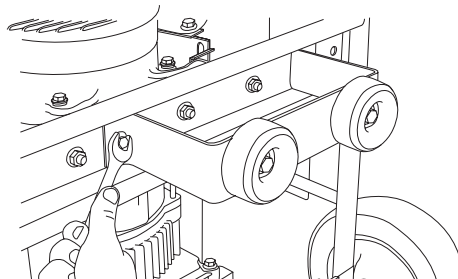
## KNOW YOUR GENERATOR

Familiarize yourself with the power panel outlets and switches before operation.

- Know how the circuit breakers work and how to reset them if tripped.
- Know where and how to turn the engine off and on.
- Know where and how to plug items into the correct outlets.

**INSTALL THE WHEEL KIT**

1. Before adding fuel and oil, tip the generator on its side.
2. Slide the wheel pin roll (#84) through the wheel (#83) from the outside.
3. Slide the pin roll through the mount point on the frame.
4. Secure the R-Pin (#85).
5. Repeat steps 2–4 to attach the second wheel.

**INSTALL THE SUPPORT LEG**

1. Attach the support leg to the generator frame with flange bolts (M8 x 16) and flange lock nuts (M8).
2. Tip the generator slowly so that it rests on the wheels and support leg.

**CONNECTING THE BATTERY**

1. Remove the protective cover from the red (+) lead on the battery.
2. Attach the red (+) lead to the red (+) terminal on the battery with the flange bolt (M5 x 10) and secure with the flange nut (M5).
3. Repeat steps 1–2 for the black (–) battery lead.

## ADD ENGINE OIL

The recommended oil type is 10W-30 automotive oil.

1. Place the generator on a flat, level surface.
2. Remove oil fill cap/dipstick to add oil.
3. Add up to 1.2 qt (1.1 L) of oil and replace oil fill cap/dipstick. **DO NOT OVERFILL.**
4. Check engine oil level daily and add as needed.

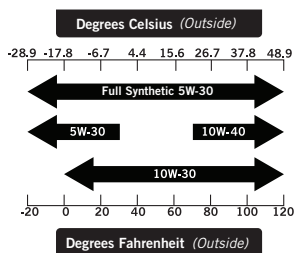
Once oil has been added, a visual check should show oil about 1–2 threads from running out of the fill hole.

If using the dipstick to check oil level, **DO NOT** screw in the dipstick while checking. 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.

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. After the 5 hour break-in period, change the oil.

Weather will affect engine oil and engine performance. Change the type of engine oil used based on weather conditions to suit the engine needs.

**Synthetic oil may be used after the 5 hour initial break-in period. Using synthetic oil does not increase the recommended oil change interval.**



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



**IMPORTANT: The generator rotor has a sealed, pre-lubricated ball bearing that requires no additional lubrication for the life of the bearing.**

## ADD FUEL

Use clean, fresh, regular unleaded fuel with a minimum octane rating of 87 and an ethanol content of less than 10% by volume.

DO NOT mix oil with fuel.

Clean the area around the fuel cap.

Remove the fuel cap.

Slowly add fuel to the tank. DO NOT OVERFILL. Fuel can expand after filling. A minimum of 1/4" (6.4 mm) of space left in the tank is required for fuel expansion, more than 1/4" (6.4 mm) is recommended. Fuel can be forced out of the tank as a result of expansion if it is overfilled, and can affect the stable running condition of the product. When filling the tank, it is recommended to leave enough space for the fuel to expand.

Screw on the fuel cap and wipe away any spilled fuel.

DO NOT pump gas directly into the generator at the gas station. Use an approved container to transfer the fuel to the generator.

DO NOT fill fuel tank indoors.

DO NOT fill fuel tank when the engine is running or hot.

DO NOT overfill the fuel tank.

DO NOT light cigarettes or smoke when filling the fuel tank.

Pouring fuel too fast through the fuel screen may result in blow back of fuel at the operator while filling.

## GROUNDING

Your generator must be properly connected to an appropriate ground to help prevent electric shock.

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

The generator system ground connects the frame to the ground terminals on the power panel.

Electrical devices that require a grounded receptacle pin connection will not function if the receptacle ground pin is not functional.

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



## GENERATOR LOCATION

NEVER operate the generator inside any building including garages, basements, crawlspaces, sheds, enclosure or compartment, including the generator compartment of a recreational vehicle. Please consult your local authority. In some areas, generators must be registered with the local utility. Generators used at construction sites may be subject to additional rules and regulations. Generators should be on a flat, level surface at all times (even while not in operation). Generators must have at least 5' (1.5 m) of clearance from all combustible material. In addition to clearance from all combustible material, generators must also have at least 3' (91.4 cm) of clearance on all sides to allow for adequate cooling, maintenance and servicing. Generators should never be started or operated in the back of a SUV, camper, trailer, in the bed of a truck (regular, flat or otherwise), under staircases/stairwells, next to walls or buildings, or in any other location that will not allow for adequate cooling of the generator and/or the muffler. **DO NOT** contain generators during operation. Allow generators to properly cool before transport or storage.

- Place the generator in a well-ventilated area. **DO NOT** place the generator near vents or intakes where exhaust fumes could be drawn into occupied or confined spaces. Carefully consider wind and air currents when positioning generator.
- Do not operate or store the generator in rain, snow, or wet weather.
- Using a generator or electrical appliance in wet conditions, such as rain or snow, near a pool or sprinkler system, or when your hands are wet, could result in electrocution.
- During operation the muffler and exhaust fumes produced will become hot. If adequate cooling and breathing space are not supplied, or if the generator is blocked or contained, temperatures can become extremely heated and may lead to fire.



**WARNING: Failure to follow proper safety precautions may void manufacturer's warranty.**

## SURGE PROTECTION

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

## WIRELESS REMOTE

**Wireless remote starting is only possible within 78' (24 m) of the generator.**

Do not attempt to adjust the carburetor choke. The remote system will automatically close and open the choke.

1. Make certain the generator is on a flat, level surface.
2. Turn off all electrical loads connected to the generator. Never start or stop the generator with electrical devices plugged in and turned on.
3. Turn the fuel valve to the "ON" position.
4. Press the battery switch to "ON".
5. Press the engine switch to "ON".

- **WIRELESS REMOTE START:** press and release the "START" button on the handheld remote control device. DO NOT hold the button down, only press the button once. The engine will attempt to start six times.

A safety feature is provided which delays the electrical power availability during starting mode. The delay lasts for approximately 15 seconds. The delay is provided to prevent damage to the generator if electrical loads are inadvertently turned on during engine startup.

When the battery switch is in the "ON" position, the switch will light up if the battery is sending out a charge. If the switch does not light up while in the "ON" position, check that the battery connection is still good.



**NOTE:** The supplied 12 V, 9 Ah battery does re-charge while the engine is running, but it is also recommended that the battery be fully charged at least once per month.

## ELECTRIC START AND RECOIL START

1. Make certain the generator is on a flat, level surface.
2. Turn off all electrical loads connected to the generator. Never start or stop the generator with electrical devices plugged in and turned on.
3. Turn the fuel valve to the "ON" position.
4. Press the ignition switch to "ON".
5. Move the choke lever to the "CHOKE" position.

- **ELECTRIC START:** Press the battery switch to "ON." Press and hold the ignition switch to the "START" position. Release as the engine begins to roll over. If the engine fails to start within five seconds, release the switch and wait at least ten seconds before attempting to start the engine again.

- **RECOIL START:** Pull the starter cord slowly until resistance is felt and then pull rapidly.

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

Keep choke lever in "CHOKE" position for only 1 push cycle of the ignition button or 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 spark plug fouling/engine flooding due to the lack of incoming air. This will cause the engine not to start.

If the engine starts but does not continue to run make certain that the generator is on a flat, level surface. The engine is equipped with a low oil sensor that will prevent the engine from running when the oil level falls below a critical threshold.

## CONNECTING ELECTRICAL LOADS

Let the engine stabilize and warm up for a few minutes after starting.

Plug in and turn on the desired 120 or 240 V AC single phase, 60 Hz electrical loads.

DO NOT connect 3-phase loads to the generator.

DO NOT connect 50 Hz loads to the generator.

DO NOT overload the generator.

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

## DO NOT OVERLOAD GENERATOR

### Capacity

Follow these simple steps to calculate the running and starting watts necessary for your purposes.

1. Select the electrical devices you plan on running at the same time.
2. Total the running watts of these items. This is the amount of power you need to keep your items running.
3. Identify the highest starting wattage of all devices identified in step 1. Add this number to the number calculated in step 2. Surge wattage is the extra burst of power needed to start some electric driven equipment. Following the steps listed under "Power Management" will guarantee that only one device will be starting at a time.

### Power Management

Use the following formula to convert voltage and amperage to watts:

$$\text{Volts} \times \text{Amps} = \text{Watts}$$

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.



**IMPORTANT:** Never exceed the specified capacity when adding loads to the generator.

## POWER METER AND FUEL LIFE METER

The power and fuel life meter are located on the front of the operator's panel and shown as Item #3 on page 5.

The meter is divided into two separate displays. The LCD display on top shows the voltage [U], frequency [H], running time [R], total time, and remaining fuel run time [F]. Each parameter is shown for several seconds and then automatically cycles through in the order listed.

The LED display on bottom shows the output power being producing based on the electrical load connected to the generator. As the output increases, more LED lights are shown until the generator is overloaded at which time a red LED light will appear. **DO NOT OVERLOAD GENERATOR** – see page 11. The LED display also shows the time the generator will run based on the current output power and the remaining fuel level. As the fuel decreases, fewer lights are shown until there is approximately 10% fuel remaining at which time an orange light will appear. This indicates that the fuel tank needs to be refilled shortly or will run out. The output power will be displayed at all times except when the remaining fuel run time is shown on the LCD at which time the remaining fuel run time is displayed on the LED.

## STOPPING THE ENGINE

1. Turn off and unplug all electrical loads. Never start or stop the generator with electrical devices plugged in or turned on.
2. Let the generator run at no-load for several minutes to stabilize internal temperatures of the engine and generator.
3. Turn the fuel valve to the "OFF" position.
4. Let the engine run until fuel starvation has stopped the engine. This usually takes a few minutes.
5. Press the engine switch to the "OFF" position.
6. Press the battery switch to the "OFF" position.

**Important:** Always ensure that the fuel valve and the engine switch are in the "OFF" position when the engine is not in use.



**NOTE:** If the engine will not be used for a period of two (2) weeks or longer, please see the Storage section for proper engine and fuel storage.

**IMPORTANT SAFETY INFORMATION**

- **Read this manual thoroughly before operating your generator. Failure to follow instructions could result in serious injury or death.**
- Generator exhaust contains carbon monoxide: a colourless, odourless, poison gas. Breathing carbon monoxide will cause nausea, dizziness, fainting or death. If you start to feel dizzy or weak, get to fresh air immediately.
- Operate generator outdoors only in a well-ventilated area.
- DO NOT operate the generator inside any building including garages, basements, crawlspaces, sheds, enclosure or compartment, including the generator compartment of a recreational vehicle.
- DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings.
- **DANGER CARBON MONOXIDE: using a generator indoors CAN KILL YOU IN MINUTES.**
- Rotating parts can entangle hands, feet, hair, clothing and/or accessories.
- Traumatic amputation or severe laceration can result.
- Keep hands and feet away from rotating parts.
- Tie up long hair and remove jewellery.
- Operate equipment with guards in place.
- DO NOT wear loose-fitting clothing, dangling drawstrings or items that could become caught.
- Generator produces powerful voltage.
- DO NOT touch bare wires or receptacles.
- DO NOT use electrical cords that are worn, damaged or frayed.
- DO NOT operate generator in wet weather.
- DO NOT allow children or unqualified persons to operate or service the generator.
- Use a ground fault circuit interrupter (GFCI) in damp areas and areas containing conductive material such as metal decking.
- Use approved transfer equipment to isolate generator from your electric utility and notify your utility company before connecting your generator to your power system.
- Sparks can result in fire or electrical shock.

**WHEN SERVICING THE GENERATOR:**

- Disconnect the spark plug wire and place it where it cannot contact the plug.
- DO NOT check for spark with the plug removed.
- Use only approved spark plug testers.
- Running engines produce heat. Severe burns can occur on contact.
- Combustible material can catch fire on contact.
- DO NOT touch hot surfaces.
- Avoid contact with hot exhaust gases.
- Allow equipment to cool before touching.
- Maintain at least 3' (91.4 cm) of clearance on all sides to ensure adequate cooling.
- Maintain at least 5' (1.5 m) of clearance from combustible materials.
- Rapid retraction of the starter cord will pull hand and arm towards the engine faster than you can let go.
- Unintentional startup can result in entanglement, traumatic amputation or laceration.
- Broken bones, fractures, bruises or sprains could result.
- Exceeding the generator's running capacity can damage the generator and/or electrical devices connected to it.
- DO NOT overload the generator.
- Start the generator and allow the engine to stabilize before connecting electrical loads.
- Connect electrical equipment in the off position, and then turn them on for operation.
- Turn electrical equipment off and disconnect before stopping the generator.
- DO NOT tamper with the governed speed.
- DO NOT modify the generator in any way.
- Improper treatment or use of the generator can damage it, shorten its life and void your warranty.
- Use the generator only for intended uses.
- Operate only on level surfaces.
- DO NOT expose generator to excessive moisture, dust, or dirt.
- DO NOT allow any material to block the cooling slots.
- If connected devices overheat, turn them off and disconnect them from the generator.



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#### **DO NOT USE THE GENERATOR IF:**

- Electrical output is lost.
- Equipment sparks, smokes or emits flames.
- Equipment vibrates excessively.
- Operation of this equipment may create sparks that can start fires around dry vegetation.
- A spark arrestor may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

#### **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.
- Fuel and fuel vapours are highly flammable and extremely explosive.
- Fire or explosion can cause severe burns or death.
- Unintentional startup can result in entanglement, traumatic amputation or laceration.

#### **WHEN ADDING OR REMOVING FUEL:**

- Turn the generator off and let it cool for at least two minutes before removing the fuel cap. Loosen the cap slowly to relieve pressure in the tank.
- Only fill or drain fuel outdoors in a well-ventilated area.
- DO NOT pump gas directly into the generator at the gas station. Use an approved container to transfer the fuel to the generator.
- DO NOT overfill the fuel tank.
- Always keep fuel away from sparks, open flames, pilot lights, heat and other sources of ignition.
- DO NOT light or smoke cigarettes.

#### **WHEN STARTING THE GENERATOR:**

- DO NOT attempt to start a damaged generator.
- Make certain that the gas cap, air filter, spark plug, fuel lines and exhaust system are properly in place.
- Allow spilled fuel to evaporate fully before attempting to start the engine.
- Make certain that the generator is resting firmly on level ground.

#### **WHEN OPERATING THE GENERATOR:**

- DO NOT move or tip the generator during operation.
- DO NOT tip the generator or allow fuel or oil to spill.

#### **WHEN TRANSPORTING OR SERVICING THE GENERATOR:**

- Make certain that the fuel shutoff valve is in the off position and the fuel tank is empty.
- Disconnect the spark plug wire.

#### **When storing the generator:**

- Store away from sparks, open flames, pilot lights, heat and other sources of ignition.

This device complies with Industry Canada licence—exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## STORAGE AND MAINTENANCE

The owner/operator is responsible for all periodic maintenance.

Tampering with the factory set governor will void your warranty.

Improper maintenance will void your warranty.

Maintenance, replacement, or repair of emission control devices and systems may be performed by any non-road engine repair establishment or individual.

The owner/operator is responsible for all periodic maintenance.

Complete all scheduled maintenance in a timely manner. Correct any issue before operating the generator.

## ENGINE MAINTENANCE

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

### Oil

Change oil when the engine is warm. Refer to the oil specification to select the proper grade of oil for your operating environment.

1. Remove the oil drain plug with a 15 mm socket and extension (not included).
2. Allow the oil to drain completely.
3. Replace the drain plug.
4. Remove oil fill cap/dipstick to add oil.
5. Add 1.2 qt (1.1 L) of oil and replace oil fill cap/dipstick. **DO NOT OVERFILL.**
6. Dispose of used oil at an approved waste management facility.

Once oil has been added, a visual check should show oil about 1-2 threads from running out of the fill hole.

If using the dipstick to check oil level, **DO NOT** screw in the dipstick while checking

### Spark Plugs

1. Remove the spark plug cable from the spark plug.
2. Use a spark socket (not included) to remove the plug.
3. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.
4. Make certain the spark plug gap is 0.028–0.031" (0.7–0.8 mm).
5. Refer to the spark plug recommendation section of specifications when replacing the plug.
6. Carefully thread the plug into the engine.
7. Use a spark plug socket (not included) to firmly install the plug.
8. Attach the spark plug wire to the plug.

**Air Filter**

1. Remove the snap-on cover holding the air filter to the assembly.
2. Remove the foam element.
3. Wash in liquid detergent and water. Squeeze thoroughly dry in a clean cloth.
4. Saturate in clean engine oil.
5. Squeeze in a clean, absorbent cloth to remove all excess oil.
6. Place the filter in the assembly.
7. Reattach the air filter cover and snap in place.

**Spark Arrester**

Allow the engine to cool completely before servicing the spark arrester.

1. Remove the three (3) screws holding the cover plate which retains the end of the spark arrester to the muffler.
2. Remove the spark arrester screen.
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 three (3) screws.

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

**Cleaning**

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

Use a soft bristle brush to remove dirt and oil.

Use an air compressor (25 PSI) to clear dirt and debris from the engine.

**DO NOT spray engine with water. Water can contaminate the fuel system.**

**Adjustments**

The air-fuel mixture is not adjustable. Tampering with the governor can damage your generator and your electrical devices and will void your warranty.



**Maintenance Schedule**

Follow the service intervals indicated in the following maintenance schedule.  
Service your generator more frequently when operating in adverse conditions.

Every 8 hours or daily	
Check oil level	
Clean around air intake and muffler	
First 5 hours	
Change oil	
Every 50 hours or every season	
Clean air filter	
Change oil if operating under heavy load or in hot environments	
Every 100 hours or every season	
Change oil	
Clean/adjust spark plug	
Check/adjust valve clearance*	
Clean spark arrester	
Clean fuel tank and filter*	
Every 250 hours	
Clean combustion chamber*	
Every 3 years	
Replace fuel line	

\*To be performed by knowledgeable, experienced owners or certified dealers.

### Generator Maintenance

1. 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.
2. Use a damp cloth to clean exterior surfaces of the generator.
3. Use a soft bristle brush to remove dirt and oil.
4. Use an air compressor (25 PSI) to clear dirt and debris from the generator.
5. Inspect all air vents and cooling slots to ensure that they are clean and unobstructed.
6. DO NOT use a garden hose to clean the generator.

Water can enter the generator through the cooling slots and damage the generator windings.

### Storage

The generator should be started at least once every 14 days and allowed to run for at least 20 minutes. For longer term storage, please follow these guidelines.

### Generator Storage

1. Add a properly formulated fuel stabilizer to the tank.
2. Be sure all appliances are disconnected from the generator.
3. Run the generator for a few minutes so the treated fuel cycles through the fuel system and carburetor.
4. Turn the fuel valve to the "Off" position.
5. Let the generator run until fuel starvation has stopped the engine. This usually takes a few minutes.
6. The generator needs to cool completely before cleaning and storage.
7. Clean the generator according to the maintenance section.
8. Change the oil.
9. Remove the spark plug and pour about 1/2 oz (14.8 mL) of oil into the cylinder. Crank the engine slowly to distribute the oil and lubricate the cylinder.
10. Reattach the spark plug.
11. Store the unit in a clean, dry place out of direct sunlight.

Generator exhaust contains odourless and colourless carbon monoxide gas.

To avoid accidental or unintended ignition of your remote start generator during periods of storage, the following precautions should be followed:

- When storing the generator for short periods of time make sure that the ignition switch, the fuel valve and the battery switch are set in the OFF position.
- When storing the generator for extended periods of time make sure that the Ignition switch, the fuel valve and the battery switch are set in the the OFF position and the battery leads have been disconnected from the battery.

**Generator Battery**

This product is equipped with an automatic battery charging circuit. The battery will receive charging voltage when the engine is running. The battery will maintain a proper charge if the unit is used on a regular basis (about once every two weeks). If it is used less frequently, the battery should be connected to a trickle charger (not included) or battery maintainer (not included) to keep the battery properly charged. If the battery is not able to start the engine, it can be started by manually pulling the engine recoil cord. If the battery voltage is extremely low, the charging circuit may not be able to re-charge the battery. In this case, the battery must be connected to a standard automotive style battery charger for re-charging before it can be used.

**Disconnect the Battery**

1. Remove the protective cover from the black/negative battery lead.
2. Disconnect the black/negative lead from the black/negative terminal on the battery and store the cap screw (M5 x 10) and nut (M5).

Repeat steps 1–2 for the red/positive battery lead.

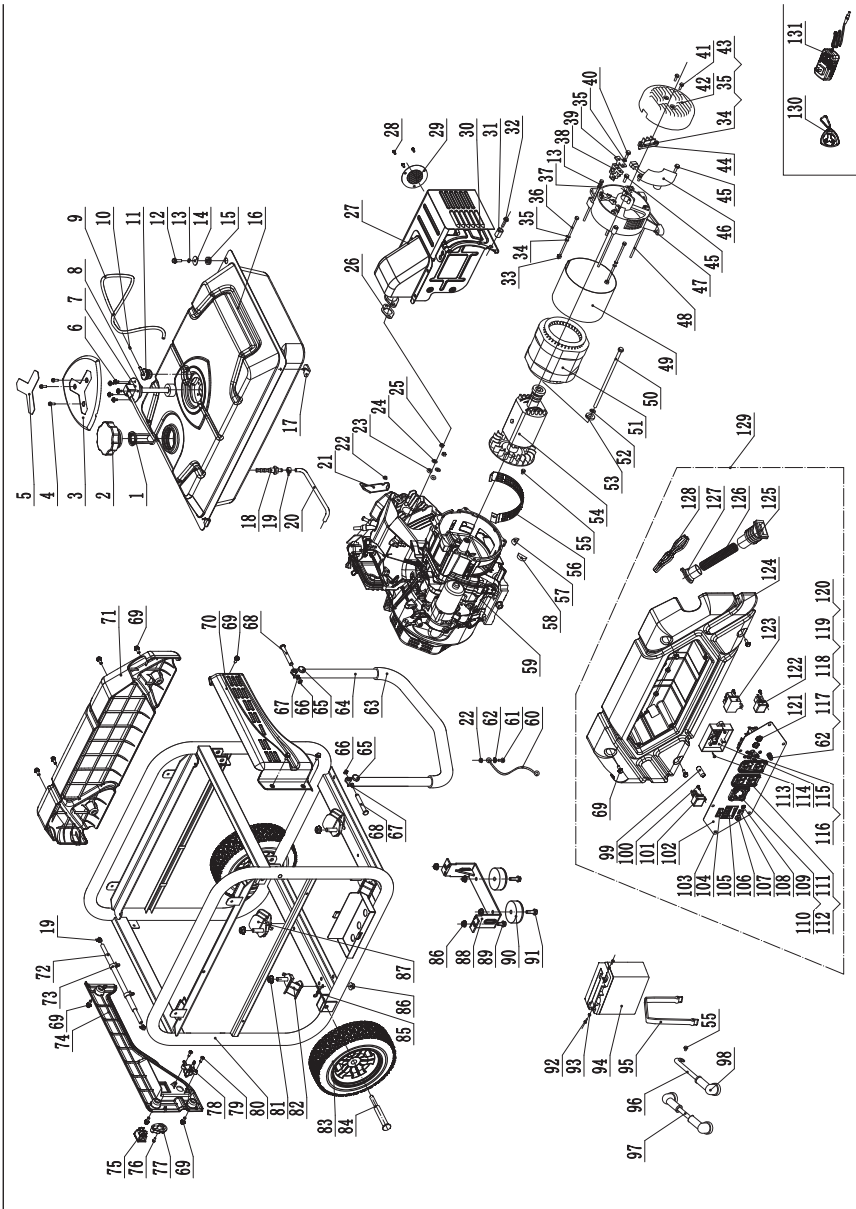
Store the battery in a cool, dry place.

**Charge the Battery**

For a generator equipped with batteries for electric starting, proper battery maintenance and storage should be followed. An automatic battery charger (included) with automatic trickle charging capability should be used to charge the battery. Maximum charging rate should not exceed 1.5 amps. Follow the instructions included with the battery charger. The battery should be fully charged at least once per month.

A float charger will maintain the battery condition over long storage periods.

Exploded View (Product)



Item	Description	Drawing	QTY
1	Fuel Filter Assembly	122.070300.04	1
2	Cap, Fuel Tank	122.070100.07	1
3	Cover Plate, Teal 3145c	152.070016.00.99	1
4	Screw/Washer Assembly M4 x 14, Black	1.9074.4.0414.1	3
5	Decorative Plate, Fuel Tank	152.070008.00	1
6	Screw M5 x 13	2.08.068.2	5
7	Fuel Level Sensor, 165 mm	152.070035.00	1
	Seal Ring	122.070036.00	1
8	Pipe, Reversal Valve, 670 mm	122.070014.02	1
9	Hole, Breather Tube	24.070030.00	1
10	Reversal Valve	24.070800.00	1
11	Flange Bolt M6 x 20	1.5789.0620.2	2
12	Lock Washer Ø6	1.93.06	6
13	Washer Ø24 x Ø6.5 x 1.5	2.03.004	2
14	Mount Vibration, Fuel Tank	122.070015.01	2
15	Fuel Tank, Cool Gray 11c	152.071000.46.29	1
16	Mount Vibration, Fuel Tank, EL	152.070024.01	2
17	Connect, Copper	21.070600.01	1
18	Clamp Ø8.7 x b8	2.06.016	4
19	Fuel Pipe	152.070011.14	1
20	Holder, Air Cleaner	45.090006.20	1
21	Lock Nut M6, Flange	1.6177.1.06	2
22	Washer Ø8	1.848.08	2
23	Lock Washer Ø8	1.93.08	2
24	Nut M8	1.6175.08	2
25	Gasket, Exhaust	46.100001.07	1
26	Muffler Assembly, Black 419c	46.101000.01.30	1
27	Screw/Washer Assembly M5 x 10	1.9074.4.0510	3
28	Spark Arrester Assembly	46.101300.00	1
29	Flange Bolt M8 x 20	1.16674.0820	1
30	Bushing Ø9 x Ø13 x 16	2.13.009	1
31	Flange Bolt M8 x 35	1.16674.0835	1
32	Nut M5	1.6175.05	2
33	Washer Ø5	1.97.1.05	4

Item	Description	Drawing	QTY
34	Lock Washer Ø5	1.93.05	5
35	Bolt M5 x 214	2.08.035	2
36	Washer Ø6	1.97.1.06	4
37	Carbon Brush Assembly	152.190300.00	1
38	Pinch, Carbon Brush	122.190004.01	1
39	Bolt M5 x 20	1.5783.0520	1
40	Flange Bolt M5 x 12	1.16674.0512.2	2
41	End Cover, Generator, Teal 3145c	152.190003.00.99	1
42	Bolt M5 x 16	1.5783.0516	2
43	Terminal Block	122.190400.00	1
44	Flange Bolt M5 x 16	1.16674.0516	3
45	AVR	154.190200.02	1
46	End Housing	152.190002.00	1
47	Flange Bolt M6 x 179	2.08.032	4
48	Cover, Stator	152.191002.00	1
49	Flange Bolt M10 x 265	2.08.034	1
50	Stator Assembly, Al, 140 mm, THD<15%	152.191200.33	1
51	Lock Washer Ø10	1.7244.10	1
52	Flat Washer Ø10	1.96.10	1
53	Rotor Assembly, Al, 140 mm, THD<15%	152.191100.33	1
54	Flange Bolt M6 x 8	1.5789.0608	2
55	Air Guide	152.192300.01	1
56	Plug A, Fore-Cover	152.190005.00	1
57	Plug B, Fore-Cover	152.190005.01	1
58	Engine, Teal 3145c	47.602.99	1
59	Grounding Line 150 mm	5.1900.029	1
60	Flange Bolt M6 x 12	1.5789.0612	1
61	Toothed Lock Washer Ø6	1.862.06	2
62	Cover, Handle, Black 419c	152.200702.02.30	1
63	Handle, U Shape, Black 419c	152.200701.05.30	1
64	Short Pin, Handle	152.200703.02	2
65	Circlip Ø10	1.894.1.10	2
66	Circlip Ø8	1.894.1.08	2
67	Long Pin, Handle	152.200703.03	2

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Item	Description	Drawing	QTY
68	Flange Bolt M6 x 15, Black	1.5789.0615.1	14
69	Decorative Plate, Left, Cool Gray 11c	152.200800.11.29	1
70	Flange Bolt M6 x 15, Black	1.5789.0615.1	11
71	Decorative Plate, Back, Cool Gray 11c	152.200800.13.29	1
72	Fuel Pipe	152.070011.13	1
73	Clip, Ø12.5 x 7	2.05.009	2
74	Decorative Plate, Right, Cool Gray 11c	152.200800.12.29	1
75	Ignition Switch, Red	5.1000.001.3	1
76	Screw M4 x 10	1.823.0410	1
77	Knob	122.070001.00	1
78	Fuel Valve	83.070400.01	1
79	Screw ST4.2 x 19	1.845.4219	2
80	Frame, Black 419c	65258.0.5.30	1
81	Flange Lock Nut M10	1.6177.1.10	4
82	Motor Mount, 1	152.201200.03	2
83	9 1/2" (24.1 cm) PU Wheel, Cool Gray 11c	152.201701.09.29	2
84	Pin Roll, Wheel, Ø16 x Ø10 x 97	122.201501.23	2
85	Pin Ø2 x 33, "R" Shape	2.16.001	2
86	Lock Nut M8, Flange	1.6177.1.08	8
87	Motor Mount 2	152.201200.04	2
88	Support Leg 72 mm, Black 419c	152.200002.14.30	1
89	Flange Bolt M8 x 16	1.5789.0816	2
90	Rubber, Support	152.201400.00	2
91	Flange Bolt M8 x 25	1.5789.0825	2
92	Screw/Washer Assembly M5 x 10	1.9074.3.0510	2
93	Lock Nut M5, Flange	1.6177.1.05	2
94	Battery 12 V, 15 Ah	9.1000.150	1
95	Pinch, Rubber	152.200904.00	1
96	Black Wire 320 mm, Battery	5.1900.025	1
97	Red Wire 480 mm, Battery	5.1900.024	1
98	Jacket, Wire	152.200013.01	3
99	Fuse 10 A	5.1280.003	1
100	Screw M5 x 14	1.823.0514	3
101	Charger	5.1820.000	1

Item	Description	Drawing	QTY
102	Control Panel, Black 419c	152.219.01.30	1
103	Screw/Washer Assembly M5 x 14, Black	1.9074.4.0514.1	6
104	Battery Switch, Red	5.1000.000.3	1
105	Power meter, Five In One	5.1440.007	1
106	Indicator Light	5.1460.003	1
107	Remote Exercise Button	5.1040.004	1
108	Receptacle, Battery Charger	5.1110.006	1
109	Receptacle L14-30R, CSA	5.1120.026	1
110	Receptacle Cover, L14-30R	5.1870.003	1
111	Receptacle 5-20R, Duplex, CSA	5.1120.027	2
112	Receptacle Cover, 5-20R, Duplex	5.1870.008	2
113	Screw ST4.2 x 16	1.845.4216	2
114	Remote Control Module	5.1830.009	1
115	25 A Circuit Breaker, Double Pole, CSA	5.1240.925	1
116	Screw/Washer Assembly M3 x 6, Black	1.9074.4.0306.1	4
117	Bolt M6 x 22, Green	1.5783.0622.3	1
118	Nut M6, Green	1.6175.06.3	2
119	Washer Ø6, Green	1.97.1.06.3	2
120	Lock Washer Ø6, Green	1.93.06.3	2
121	20 A Circuit Breaker, Pushbutton	5.1210.920	2
122	Rectifier	5.1800.000	1
123	Over Voltage Protector, CSA	5.1810.000	1
124	Control Box, Cool Gray 11c	152.210002.22.29	1
125	Plug, End Cover, CSA	152.210003.03	1
126	Sheath, Wire, Ø28.5 x170mm	5.1320.024	1
127	Plug, Control Box	172.210003.01	1
128	Wire Assembly	100135.21.10	1
129	Control Panel Assembly	100135.21	1
130	Remote Control	9.2600.001	1
131	Smart Charger, Hoyoa, 12 V	9.1700.004	1

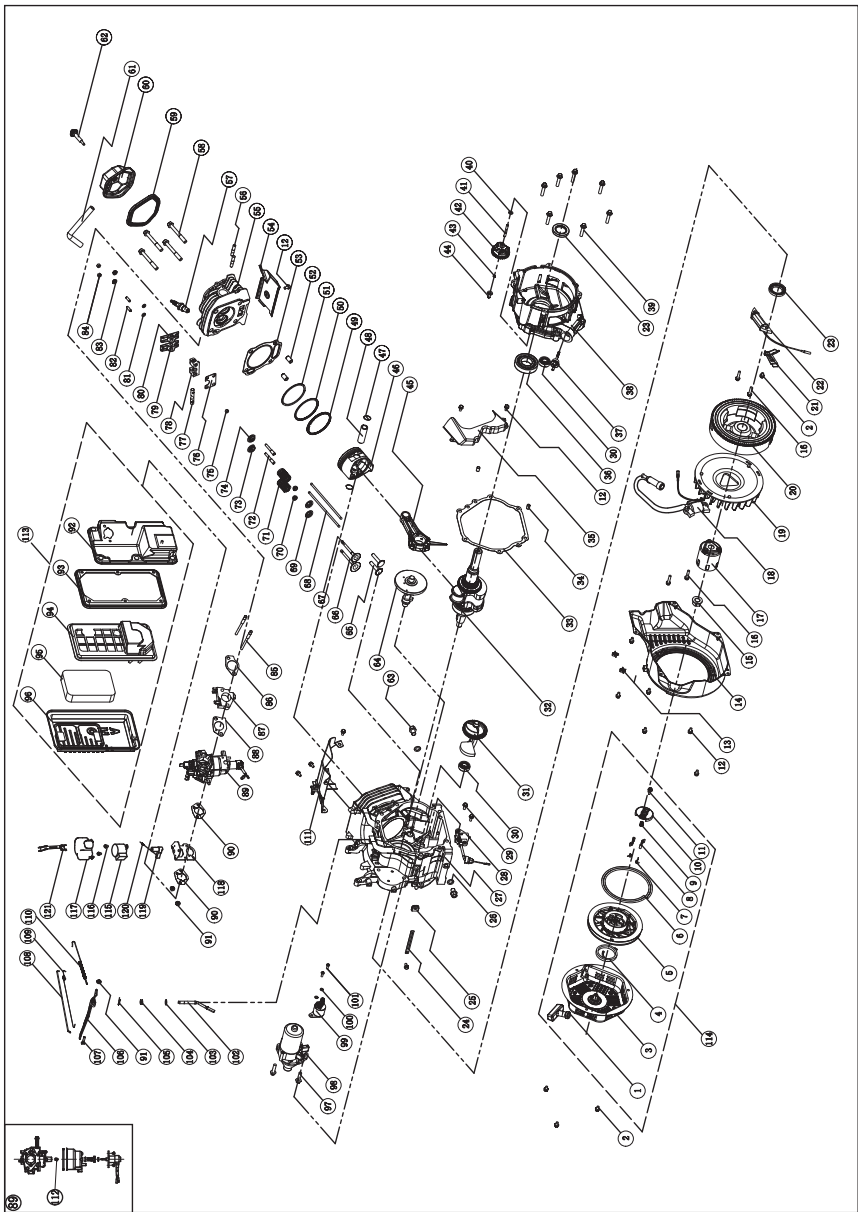




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Exploded View (Engine)



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Item	Description	Drawing	QTY
1	Handle, Recoil, Soft	21.061300.00	1
2	Flange Bolt M6 × 8	1.5789.0608	4
3	Cover, Recoil Starter, Black 419c	46.061100.00.30	1
4	Spring, Recoil Starter	45.060005.00	1
5	Reel, Recoil Starter	45.061102.00	1
6	Rope Ø5 × 1550	2.10.003	1
7	Spring, Ratchet	45.060003.00	2
8	Starter Ratchet, Steel	45.060002.00	2
9	Spring, Ratchet Guide	45.060009.00	1
10	Ratchet Guide	45.060007.00	1
11	Screw, Ratchet Guide	45.060008.00	1
12	Flange Bolt M6 × 12	1.5789.0612	12
13	Clamp Ø8 × 6.5	2.05.001	2
14	Fan Cover, Teal 3145c	47.080100.01.99	1
15	Nut M16 × 1.5	2.02.007	1
16	Flange Bolt M6 × 29	1.5789.0629	4
17	Pulley, Starter	45.060001.00	1
18	Ignition Coil	46.123000.01	1
19	Cooling Fan	47.080001.00	1
20	Flywheel	46.120100.04	1
21	Plate, Coil	45.030006.00	1
22	Coil, Charging	45.121000.00	1
23	Oil Seal Ø35 × Ø52 × 8	2.11.007	2
24	Wire Clip, 100 mm	2.05.050	1
25	Sheath, Wire	45.030032.00	1
26	Washer Ø12.5 × Ø20 × 2	2.03.023	2
27	Crankcase	47.030100.01	1
28	Oil Level Sensor	45.127000.02	1
29	Flange Bolt M6 × 15	1.5789.0615	2
30	Bearing 6202	1.276.6202	2
31	Weight Balancer	47.050006.00	1
32	Crankshaft	47.050100.01	1
33	Gasket, Crankcase Cover	46.030008.00	1
34	Dowel Pin Ø9 × 14	2.04.001	2

Item	Description	Drawing	QTY
35	Air Guide, Right Side	46.080600.00	1
36	Bearing 6207	1.276.6207	1
37	Oil Dipstick Assembly, Black	46.031000.01	1
38	Cover, Crankcase	45.030007.00	1
39	Flange Bolt M8 × 40	1.5789.0840.0.8	7
40	Washer Ø6.4 × Ø13 × 1, Black	2.03.021.1	1
41	Shaft, Governor Gear	45.110013.00	1
42	Gear, Governor	45.110100.00	1
43	Clip, Governor Gear	21.110011.00	1
44	Bushing, Governor Gear	45.110012.00	1
45	Connecting Rod	47.050200.00	1
46	Piston	47.050005.01	1
47	Circlip Ø21 × Ø1	2.09.004	2
48	Pin, Piston	45.050003.00	1
49	Ring, Oil	46.050303.02	1
50	Ring, Second Piston	46.050302.02	1
51	Ring, First Piston	46.050301.02	1
52	Dowel Pin Ø12 × 20	2.04.004	2
53	Gasket, Cylinder Head	46.030009.02	1
54	Air Guide, Lower	46.080400.00	1
55	Cylinder Head	47.010100.01	1
56	Stud Bolt M8 × 35	2.01.010	2
57	Spark Plug F6RTC	2.15.002(F6RTC)	1
58	Flange Bolt M10 × 80	2.08.014	4
59	Gasket, Cylinder Head Cover	46.020002.00	1
60	Cover, Cylinder Head	47.021000.00	1
61	Breather Tube	45.020001.02	1
62	Bolt, Cylinder Head Cover	47.020100.00	1
63	Drain Bolt M12 × 1.5 × 15	2.08.039	2
64	Camshaft	47.041000.01	1
65	Lifter, Valve	47.040004.00	2
66	Valve, Intake	47.040002.00	1
67	Valve, Exhaust	47.040006.00	1
68	Push Rod	46.040005.00	2

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Item	Description	Drawing	QTY
69	Retainer, Valve Spring	45.040015.00	2
70	Oil Seal, Valve	45.040017.00	2
71	Spring, Valve	45.040003.00	2
72	Bolt, Rocker Arm	23.040010.00	2
73	Retainer, Intake Valve Spring	45.040001.00	1
74	Retainer, Exhaust Valve Spring	45.040007.00	1
75	Rotator, Exhaust Valve	45.040008.00	1
76	Guide Plate, Push Rod	46.040004.00	1
77	Shaft, Rocker Arm	46.040016.00	1
78	Retainer, Rocker Arm	46.040201.00	1
79	Rocker Arm, Intake Valve	46.040009.00	1
80	Rocker Arm, Exhaust Valve	46.040018.00	1
81	Washer Ø6	1.97.1.06	2
82	Screw, Valve Adjustment	22.040012.00	2
83	Flange Nut M6	1.6177.1.06	2
84	Nut M6 × 0.5, Lock	21.040021.00	2
85	Stud Bolt M6 × M8 × 105	2.01.008	2
86	Gasket, Insulator	46.130002.20	1
87	Insulator, Carburetor	45.130001.00	1
88	Gasket, Carburetor	46.130003.20	1
89	Carburetor	47.131000.33	1
90	Gasket, Air Cleaner	46.130004.20	2
91	Flange Nut M6	1.6177.06	3
92	Base, Air Cleaner, Black 419c	46.091100.03.30	1
93	Seal, Air Cleaner	45.091002.20	1
94	Separator, Air Cleaner	45.091001.20	1
95	Element, Air Cleaner	45.091003.20	1
96	Cover, Air Cleaner, Black 419c	46.091200.04.30	1
97	Flange Bolt M8 × 35	1.5789.0835	2
98	Starter Motor Assembly	45.125100.00	1
99	Relay, Starter, Remote Control	45.125200.01	1
100	Lock Washer Ø5	1.93.05	2
101	Flange Bolt M5 × 16	1.16674.0516	2
102	Shaft, Governor Arm	45.110001.00	1

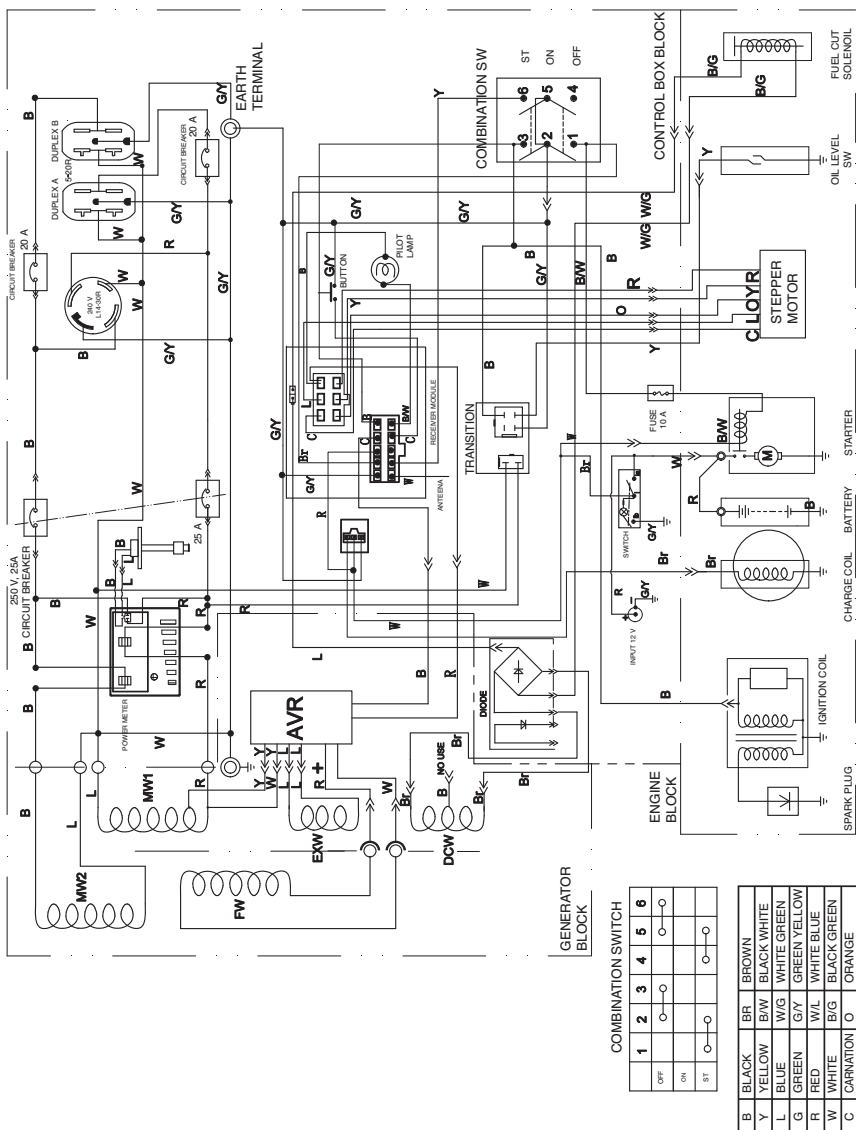
Item	Description	Drawing	QTY
103	Washer Ø8.2 × Ø17 × 0.8	2.03.019	1
104	Oil Seal Ø7 × Ø14 × 5	2.11.006	1
105	Pin, Shaft	45.110008.00	1
106	Arm, Governor	45.110003.00	1
107	Bolt M6 × 21, Governor Arm	2.08.040	1
108	Rod, Governor	45.110006.00	1
109	Spring, Throttle Return	45.110005.00	1
110	Spring, Governor	45.110007.00	1
111	Air Guide, Upper	46.080300.20	1
112	Main Jet, Standard	47.131017.21	1
113	Air Cleaner Assembly	46.091000.03	1
114	Recoil Assembly	46.061000.00	1
115	Stepper Motor	45.132200.01	1
116	Screw M4 × 8	1.823.0408	2
117	Cover, Stepper Motor	81.132001.00	1
118	Support, Stepper Motor	47.130005.00	1
119	Connector, Choke Valve Axis	26.130015.24	1
120	Spring, Connector	81.130010.00	1
121	Choke Lever	27.131301.00	1



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## Wiring Diagram





Problem	Cause	Solution
Generator will not start.	No fuel.	Add fuel.
	Faulty spark plug.	Replace spark plug.
	Unit loaded during start up.	Remove load from unit.
Generator will not start. Generator starts but runs roughly.	Low oil level.	Fill crankcase to the proper level.
		Place generator on a flat, level surface.
	Choke in the wrong position.	Adjust choke.
Generator will not start electrically.	Spark plug wire loose.	Attach wire to spark plug.
	Generator battery is dead.	Recharge generator battery.
	Battery switch is in the "OFF" position.	Turn battery switch to "ON" position.
Generator shuts down during operation.	Out of fuel.	Fill fuel tank.
	Low oil level.	Fill crankcase to the proper level. Place generator on a flat, level surface.
Generator cannot supply enough power or overheating.	Generator is overloaded.	Review load and adjust. See "Power Management."
	Insufficient ventilation.	Check for air restriction. Move to a well-ventilated area.
No AC output.	Cable not properly connected.	Check all connections.
	Connected device is defective.	Replace defective device.
	Circuit breaker is open.	Reset circuit breaker.
	Faulty brush assembly.	Replace brush assembly (service centre).
	Faulty AVR (auto voltage regulator).	Replace AVR (service centre).
	Loose wiring.	Inspect and tighten wiring connections
	Other.	Contact YARDWORKS™.
Generator gallops.	Engine governor defective.	Contact YARDWORKS™.
Repeated circuit breaker tripping.	Overload.	Review load and adjust. See "Power Management."
	Faulty cords or device.	Check for damaged, bare or frayed wires. Replace defective device.

**2-YEAR LIMITED WARRANTY**

For TWO YEARS from the date of purchase within Canada, YARDWORKS CANADA will, at its option, repair or replace for the original purchaser, free of charge, any part or parts found to be defective in material or workmanship.

**THIS WARRANTY DOES NOT COVER:**

1. Any part that has become inoperative due to misuse, commercial use, abuse, neglect, accident, improper maintenance, or alteration;
2. The unit, if it has not been operated and/or maintained in accordance with the owner's manual;
3. Normal wear, except as noted below;
4. Routine maintenance items such as lubricants, blade sharpening; or
5. Normal deterioration of the exterior finish due to use or exposure.

**FULL 120-DAY WARRANTY ON NORMAL WEAR PARTS:**

Normal wear parts are defined as blade adaptors, blades, grass bags and tires. These parts are warranted to the original purchaser to be free from defects in material and workmanship for a period of one hundred twenty (120) days from the date of retail purchase.

**HOW TO OBTAIN SERVICE:**

Warranty service is available by calling the toll-free helpline at 1.866.523.5218. The factory will not accept the return of a complete unit unless prior written permission has been extended by YARDWORKS CANADA.

**TRANSPORTATION CHARGES:**

Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. The purchaser must pay transportation charges for any part submitted for replacement under this warranty unless such return is requested in writing by YARDWORKS CANADA.

**OTHER WARRANTIES:**

All other warranties, express or implied, including any implied warranty of merchantability is limited in its duration to that set forth in this express limited warranty. The provisions as set forth in this warranty provide the sole and exclusive remedy of YARDWORKS CANADA obligations arising from the sale of its products.

Made in China. Imported by Yardworks Canada  
Toronto, Canada M4S 2B8

**YARDWORKS CANADA will not be liable for incidental or consequential loss or damage.**



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## YARDWORKS COLD START GUARANTEE

Yardworks™ warrants to the original owner that this product will start within two electric start attempts\* at the following temperatures:

Remote start: down to -5°C (23°F)

Electric start with manual choke: down to -15°C (5°F)

The product may be started manually using the pull cord and manually adjusting the choke down to -15°C (5°F).

This warranty applies for a period of two years from the date of the original purchase and covers defects in engine materials or workmanship that may prevent the engine from starting within two electric start attempts. It includes the cost of parts and labour for repairs related to the starting problem.

Transportation costs to and from the repairing dealer is the owner's responsibility. Parts and labour costs of routine maintenance items, such as spark plug, oil change, fuel filter, and fuel system maintenance, are not covered under this provision.

The use of non-original Yardworks™ service parts may void this warranty if related to the starting problem.

The warranty excludes special operational conditions that could require more than two electric start attempts, including:

- First time starting after an extended period of non-use or long term storage.
- Ambient temperature starting is below -5°C (23°F) when using remote or below -15°C (5°F) when using electric start switch with manual choke.
- Failure to follow the recommended starting procedures and guidelines for fuel and oil usage as specified in the operating manual.

Yardworks™ recommends fuel that is a minimum of 87 octane. Do not use fuel with more than 10 percent ethanol such as E15 or E85 fuel. Damage to the engine caused by ethanol-blended fuels is not covered under the warranty of the product.

Products used commercially are not covered under this provision. All other exclusions of coverage are noted in the owner's manual.

\*Two electric start attempts with a minimum 7 second cranking cycle for each attempt. Proper starting procedures and fuel and oil specifications as outlined in the owner's manual must also be followed.