



WGen5300s

Portable Generator

5300 Running Watts | 6600 Peak Watts

WARNING

Operating, servicing and maintaining this equipment can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your equipment in a well-ventilated area and wear gloves or wash your hands frequently when servicing your equipment. For more information go to www.P65Warnings.ca.gov.

DISCLAIMERS:

All information, illustrations and specifications in this manual are based on the latest information available at the time of publishing. The illustrations used in this manual are intended as representative reference views only. Moreover, because of our continuous product improvement policy, we may modify information, illustrations and/or specifications to explain and/or exemplify a product, service or maintenance improvement. We reserve the right to make any change at any time without notice. Some images may vary depending upon which model is shown.

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DANGER



This manual contains important instructions for operating this generator. For your safety and the safety of others, be sure to read this manual thoroughly before operating the generator. Failure to properly follow all instructions and precautions can cause you and others to be seriously hurt or killed.

WGen5300s TECHNICAL SPECIFICATIONS

Model Number	Running Watts	Peak Watts	Fuel Tank Size (G/L)	Rated Speed (RPM)	Ignition Type	Spark plug	Engine Disp (cc)	Stroke X Bore	Oil Capacity (L)	Oil Type	THD
WGen5300s	5300	6600	4.7Gal/18.0L	3600	TCI	F7TC	274cc	75X62	0.7L	10W30	<23%

NOTICE

Even with a carburetor modification, engine horsepower will decrease about 3.5% for each 300 meter (1,000 foot) increase in altitude. The effect of altitude on horsepower will be greater if no carburetor modification is made. A decrease in engine horsepower will decrease the power output of the generator. Contact our service team to order altitude kits.

FOR YOUR RECORDS:

Date of Purchase:	
Generator Model Number:	
Purchased from Store/Dealer:	
Generator Serial Number:	

**HAVE QUESTIONS? Email us at service@wpowereq.com
or call 1-855-944-3571**

IMPORTANT: KEEP YOUR PURCHASE RECEIPT TO ENSURE TROUBLE-FREE WARRANTY COVERAGE.

PRODUCT REGISTRATION

To ensure trouble-free warranty coverage, it is important you register your Westinghouse generator.

You can register your generator by either:

1. Filling in the product registration form below and mailing to:

Product Registration

Westinghouse Outdoor Power Equipment, LLC
777 Manor Park Drive
Columbus, Ohio 43228

2. Registering your product Online at wpowereq.com/register

To register your generator you will need to locate the serial number:

WHERE IS MY SERIAL NUMBER?



WESTINGHOUSE PRODUCT REGISTRATION FORM

PERSONAL INFORMATION

GENERATOR INFORMATION

First Name: _____ Model Number: _____

Last Name: _____ Serial Number: _____

Street Address: _____ Date Purchased: _____

Street Address: _____ Purchased From: _____

City, State, ZIP: _____

Country: _____

Phone Number: _____

E-Mail: _____



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SAFETY

SAFETY DEFINITIONS

The words DANGER, WARNING, CAUTION and NOTICE are used throughout this manual to highlight important information. Be certain that the meanings of these alerts are known to all who work on or near the equipment.



This safety alert symbol appears with most safety statements. It means attention, become alert, your safety is involved! Please read and abide by the message that follows the safety alerts symbol.

DANGER

Indicates a hazardous situation which, if not avoided, *will* result in death or serious injury.

WARNING

Indicates a hazardous situation which, if not avoided, *could* result in death or serious injury.

CAUTION

Indicates a hazardous situation which, if not avoided, *could* result in minor or moderate injury.

NOTICE

Indicates a situation which can cause damage to the generator, personal property and/or the environment, or cause the equipment to operate improperly.

NOTE: Indicates a procedure, practice or condition that should be followed in order for the generator to function in the manner intended.

SAFETY SYMBOL DEFINITIONS

Symbol	Description
	Safety Alert Symbol
	Asphyxiation Hazard
	Burn Hazard
	Burst/Pressure Hazard
	Don't leave tools in the area
	Electrical Shock Hazard
	Explosion Hazard
	Fire Hazard
	Lifting Hazard
	Pinch-Point Hazard
	Read Manufacturer's Instructions
	Read Safety Messages Before Proceeding
	Wear Personal Protective Equipment (PPE)

SAFETY

GENERAL SAFETY RULES

DANGER



Never use the generator in a location that is wet or damp. Never expose the generator to rain, snow, water spray or standing water while in use. Protect the generator from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical circuit.



Never operate the generator in an enclosed area. Engine exhaust contains carbon monoxide. Only operate the generator outside and away from windows, doors and vents.

WARNING



Voltage produced by the generator could result in death or serious injury.

- Never operate the generator in rain or a flood plain unless proper precautions are taken to avoid being subject to rain or a flood.
- Never use worn or damaged extension cords.
- Always have a licensed electrician connect the generator to the utility circuit.
- Never touch an operating generator if the generator is wet or if you have wet hands.
- Never operate the generator in highly conductive areas such as around metal decking or steel works.
- Always use grounded extension cords. Always use three-wire or double-insulated power tools.
- Never touch live terminals or bare wires while the generator is operating.
- Be sure the generator is properly grounded before operating.

WARNING



Gasoline and gasoline vapors are extremely flammable and explosive under certain conditions.

- Always refuel the generator outdoors, in a well-ventilated area.
- Never remove the fuel cap with the engine running.
- Never refuel the generator while the engine is running. Always turn engine off and allow the generator to cool before refueling.
- Only fill fuel tank with gasoline.
- Keep sparks, open flames or other form of ignition (such as match, cigarette, static electric source) away when refueling.
- Never overfill the fuel tank. Leave room for fuel to expand. Overfilling the fuel tank can result in a sudden overflow of gasoline and result in spilled gasoline coming in contact with HOT surfaces. Spilled fuel can ignite. If fuel is spilled on the generator, wipe up any spills immediately. Dispose of rag properly. Allow area of spilled fuel to dry before operating the generator.
- Wear eye protection while refueling.
- Never use gasoline as a cleaning agent.
- Store any containers containing gasoline in a well-ventilated area, away from any combustibles or source of ignition.
- Check for fuel leaks after refueling. Never operate the engine if a fuel leak is discovered.

WARNING



Never operate the generator if powered items overheat, electrical output drops, there is sparking, flames or smoke coming from the generator, or if the receptacles are damaged.



Never use the generator to power medical support equipment.



Always remove any tools or other service equipment used during maintenance from the generator before operating.

NOTICE

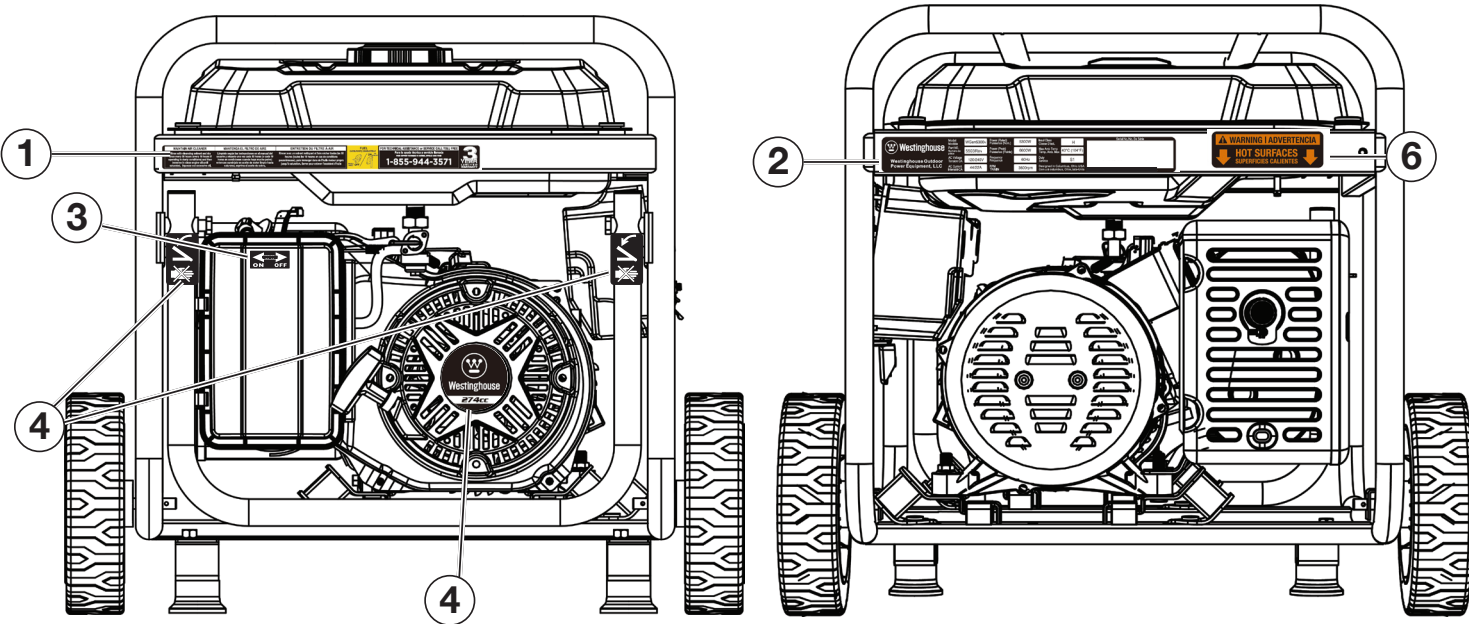
Never modify the generator.

Never operate the generator if it vibrates at high levels, if engine speed changes greatly or if the engine misfires often.

Always disconnect tools or appliances from the generator before starting.

SAFETY

SAFETY LABELS AND DECALS



1

MAINTAIN AIR CLEANER

Rinse with cleansing solvent and dry once every 50 hours (every 10 hours if operating in dusty conditions) and then immerse in clean engine oil until saturated. Squeeze out excessive oil.

MANTENGA EL FILTRO DE AIRE

Limpielo según las instrucciones en el manual del usuario y séquelo una vez cada 50 horas (o cada 10 horas en condiciones cuando haya mucho polvo) entonces sumérjelo en aceite de motor limpio hasta saturarse, exprima el aceite de sobra.

ENTRETIEN DU FILTRE À AIR

Rincer avec un solvant nettoyant et faire sécher toutes les 50 heures (toutes les 10 heures en cas de conditions poussiéreuses), puis immerger dans de l'huile moteur propre jusqu'à saturation. Serrer pour enlever l'excédent d'huile.

FUEL

CARBURANT | COMBUSTIBLE

ON / OFF

FOR TECHNICAL ASSISTANCE or SERVICE CALL TOLL FREE


Para la ayuda técnica y servicio llámada

POUR SUPPORT TECHNIQUE ou SERVICE, APPELÉZ SANS FRAIS

1-855-944-3571

3 YEAR LIMITED WARRANTY

2

 **Westinghouse**

Westinghouse Outdoor Power Equipment, LLC

Model
Modèle

WG5300s

Power (Rated)
Puissance (Nom.)

5300W

Insul Class
Classe D'isol.

H

Serial No./No. De Série

Part NO.
Número de pieza

5302Rev01

Power (Peak)
Puissance (Pointe)

6600W

Max Amb Temp
Temp. Amb. Max

40°C (104°F)

AC Voltage
Tension CA

120/240V

Frequency
Fréquence

60Hz

Duty Service

S1

AC Current
Intensité CA

44/22A

RPM
TR/MIN

3600rpm

Designed in Columbus, Ohio USA
Con u à columbus, Ohio tats-Unis

3



ON = COLD START
OFF = RUN/WARM START

4



5



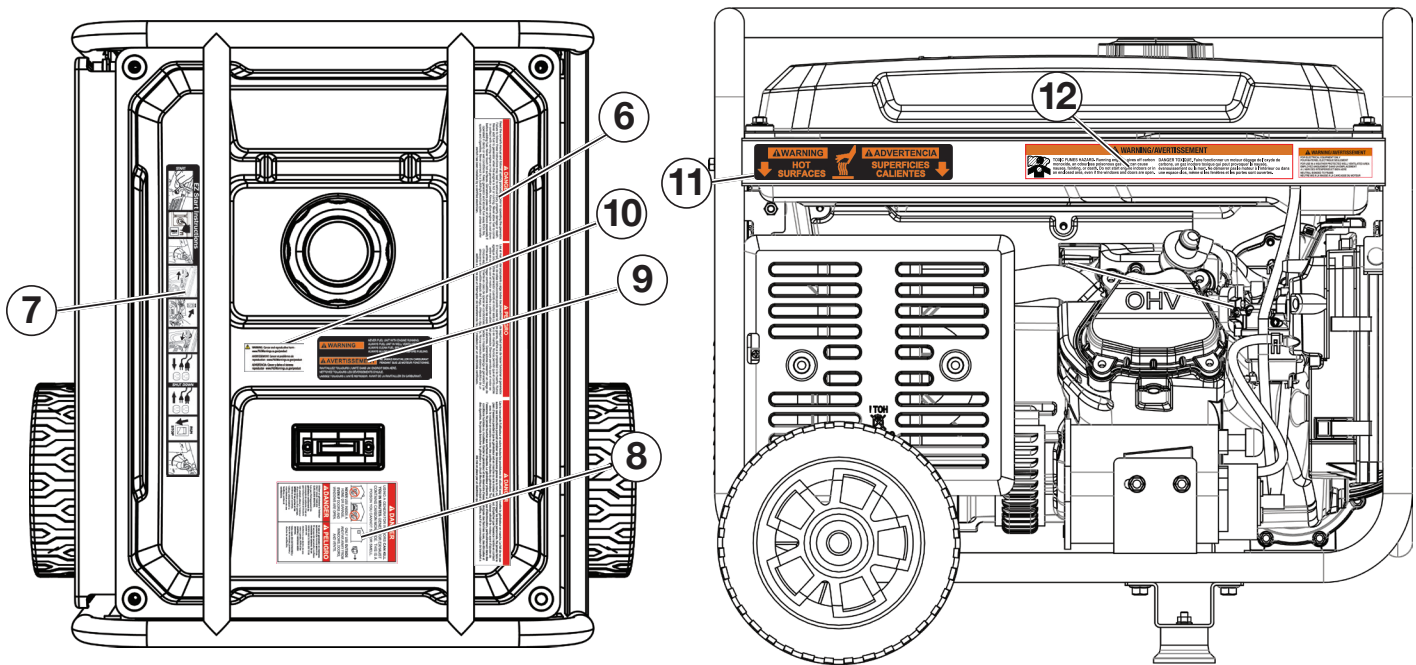
6

 **WARNING | ADVERTENCIA**

 **HOT SURFACES**
SUPERFICIES CALIENTES 

SAFETY

SAFETY LABELS AND DECALS



6

⚠ DANGER

Read the owner's manual and follow all safety procedures prior to operating the generator. Failure to follow these instructions may lead to serious injury, property damage or death. Never add fuel to generator when the engine is hot or running. Never allow fuel to come in contact with running engine or hot generator parts. Always allow engine to cool down before adding fuel. Never touch hot surfaces. Generators pose risk of shock especially if operated in damp or wet conditions. Keep generator and stored fuel away from fire, sparks and cigarettes. Never connect to a building's electrical system unless a transfer switch has been installed by a certified electrician.

⚠ PELIGRO

Lea el manual del propietario y siga todos los procedimientos de seguridad antes de hacer funcionar el generador. El incumplimiento de estas instrucciones puede causar lesiones graves, daños a la propiedad o la muerte. Nunca agregue combustible al generador cuando el motor está caliente o en marcha. Nunca permita que el combustible entre en contacto con el motor en marcha o partes calientes del generador. Siempre permita que el motor se enfríe antes de agregar combustible. Nunca toque las superficies calientes. Los generadores presentan un riesgo de choque especialmente en caso de operar en condiciones húmedas o mojadas. Mantenga el generador y se almacene el combustible alejado del fuego, chispas o cigarrillos. Nunca conecte al sistema eléctrico de un edificio a menos que un interruptor de transferencia ha sido instalado por un electricista certificado.

⚠ DANGER

Lire le manuel de l'utilisateur et suive toutes les procédures de sécurité avant de mettre le générateur en marche. Le fait de ne pas suivre ces instructions pourrait entraîner des blessures graves ou la mort, ou endommager les biens personnels. Ne jamais faire le plein d'essence pendant que le générateur est en marche ou si le moteur est chaud. Éviter que l'essence n'entre en contact avec le moteur en marche ou avec des parties chaudes du générateur. Toujours laisser refroidir le moteur avant d'ajouter de l'essence. Ne jamais toucher aux surfaces chaudes. Le générateur présente un risque d'électrocution, particulièrement dans des conditions humides ou mouillées. Garder le générateur et les réservoirs d'essence éloignés des flammes nues, des étincelles et des cigarettes. Ne jamais brancher le générateur au circuit électrique principal d'un bâtiment, sauf si un commutateur de transfert a été mis en place par un électricien qualifié.

7

EZ Start Instructions

START

MANUAL START

ELECTRIC START

SHUT DOWN

START RUN STOP

8

⚠ 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.

⚠ DANGER

Utiliser un générateur à l'intérieur PEUT VOUS TUER EN QUELQUES MINUTES. Les gaz d'échappement du générateur contiennent du monoxyde de carbone. C'est un gaz toxique invisible et inodore.

NE JAMAIS utiliser à l'intérieur d'une maison ou d'un garage, MÊME si les portes et les fenêtres sont ouvertes.

Utiliser UNIQUEMENT à l'EXTÉRIEUR et loin des fenêtres, portes et ventilations.

⚠ PELIGRO

Si usa un generador en interiores MORIRIA EN POCOS MINUTOS. El escape del generador contiene monóxido de carbono. Es un veneno que no tiene olor ni se puede ver.

NUNCA lo use dentro de una casa o garaje, AUN si las puertas y ventanas están abiertas.

Nólo use en exteriores y lejos de ventanas, puertas y ductos de ventilación.

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⚠ WARNING

NEVER FUEL UNIT WITH ENGINE RUNNING. ALWAYS FUEL UNIT IN WELL VENTILATED AREA. ALWAYS CLEAN FUEL SPILLS. ALWAYS ALLOW UNIT TO COOL BEFORE FUELING.

⚠ AVERTISSEMENT

NE JAMAIS RAVITAILLER EN CARBURANT PENDANT QUE LE MOTEUR FONCTIONNE. RAVITAILLER TOUJOURS L'UNITÉ DANS UN ENDROIT BIEN AÉRÉ. NETTOYER TOUJOURS LES DÉVERSEMENTS D'HUILE. LAISSEZ TOUJOURS L'UNITÉ REFRIGÉRIR AVANT DE LA RAVITAILLER EN CARBURANT.

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⚠ WARNING

Cancer and reproductive harm - www.P65Warnings.ca.gov/product

⚠ AVERTISSEMENT

Cancer et problèmes de reproduction - www.P65Warnings.ca.gov/product

⚠ ADVERTENCIA

Cáncer y daños al sistema reproductor - www.P65Warnings.ca.gov/product

11

⚠ WARNING

HOT SURFACES

⚠ ADVERTENCIA

SUPERFICIES CALIENTES

12

⚠ WARNING/AVERTISSEMENT

TOXIC FUMES HAZARD. Running engines gives off carbon monoxide, an odorless poisonous gas that can cause nausea, fainting, or death. Do not start engine indoors or in an enclosed area, even if the windows and doors are open.

DANGER TOXIQUE. Faire fonctionner un moteur dégage de l'oxyde de carbone, un gaz inodore toxique qui peut provoquer la nausée, évanouissement ou la mort. Ne démarrer pas le moteur à l'intérieur ou dans une espace clos, même si les fenêtres et les portes sont ouvertes.

⚠ WARNING/AVERTISSEMENT

FOR ELECTRICAL EQUIPMENT ONLY
POUR MATÉRIEL ÉLECTRIQUE SEULEMENT

FOR USE IN A WEATHER PROTECTED WELL VENTILATED AREA
EMPLOYEZ UNIQUEMENT DANS UN EMPLACEMENT À L'ABRI DES INTÉMPÉRIES ET BIEN AÉRÉ

NEUTRAL BONDED TO FRAME
NEUTRE MIS À LA MASSE LA CARCASSE DU MOTEUR

UNPACKING

⚠ CAUTION



Always have assistance when lifting the generator. The generator is heavy; lifting it could cause bodily harm.



Avoid cutting on or near staples to prevent personal injury.

Tools required – box cutter or similar device.

1. Carefully cut the packing tape on top of the carton.
2. Fold back top flaps to reveal the manual.
3. Remove the Wheel Kit Accessories cardboard box.
4. Carefully cut two sides of the carton to remove the generator.

WHAT COMES IN THE BOX

Manual
Quick Start Guide
Liter Bottle of SAE 10W30 Oil (1)
Spark Plug Socket Wrench (1)
Wheel Assembly Wrench
Wheel Kit Accessories Box
Funnel (1)

WHEEL KIT ACCESSORIES BOX

Open the Wheel Kit Accessories box and verify the contents against the list right. If any parts are missing, please locate an authorized Westinghouse Generator dealer at service@wpowereq.com or call 1-855-944-3571.

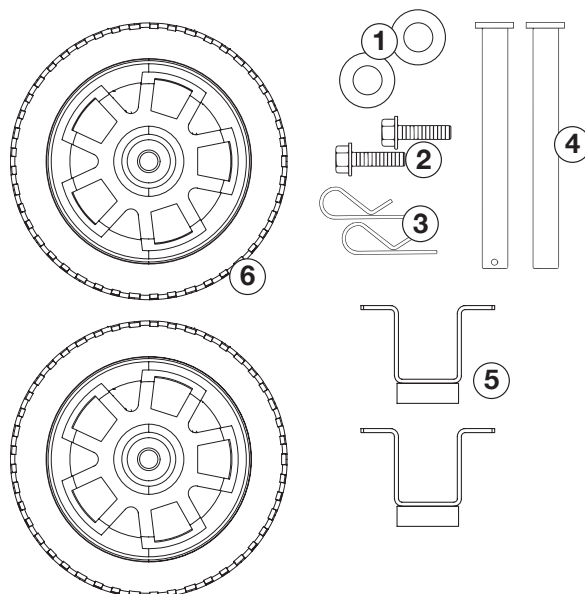


Figure 1 -Wheel and Feet Kit Hardware

1. Washer (2)
2. Flange Bolt M8 x16mm (4)
3. Hairpin Cotter Pin (2)
4. Wheel Axle Pin (2)
5. Mounting feet (2)
6. Wheel (2)

ASSEMBLY

INSTALLING WHEELS AND FEET



BEFORE ASSEMBLING THE GENERATOR, REVIEW THE SAFETY SECTION STARTING ON PAGE 5.

⚠ CAUTION



Never lift the generator without assistance. The generator is heavy and lifting without assistance could result in personal injury.



Never use the handles as a lifting point to support the entire weight of the generator. Only use the handles to move the generator by lifting the handles and using the wheels to move the generator.



Use caution when collapsing the handles. Hands and fingers could get caught and pinched.

NOTICE

Assembling the generator will require lifting the unit on one side. Make sure all engine oil and fuel are drained from the unit prior to assembling. Once assembled, the wheel kit is not intended for on-road use. The wheel kit is designed for use on this generator only.

INSTALLING FEET TO FRAME

1. Place generator on a flat surface.
2. Place a piece of cardboard or other soft material to tip the generator onto, to protect the frame paint and prevent the generator from sliding. Tip the generator onto the side.
3. Install the mounting foot (5) to the frame using M8 flange bolts (2).

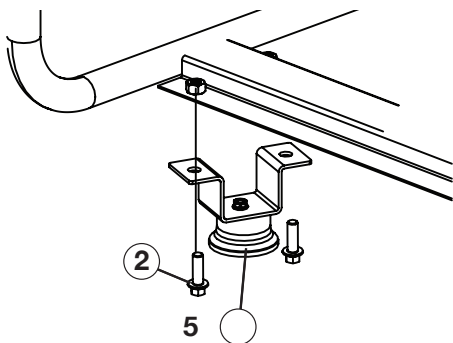


Figure 2 - Assemble Mounting Feet to Frame

INSTALLING WHEELS TO FRAME

1. Insert axle pin (4) through wheel (6) and place washer (1) between wheel and mounting bracket.

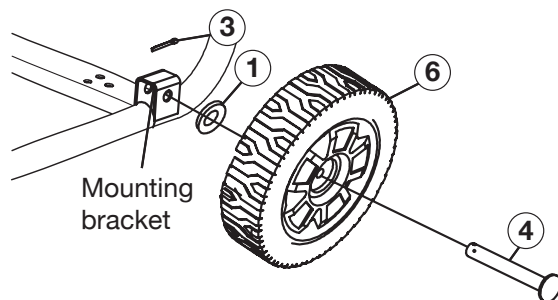


Figure 3 -Wheel Assembly

2. Place hairpin cotter pin (3) through the eye of the wheel axle pin (4) to secure wheel.
3. Repeat previous steps on other wheel.

ASSEMBLY

INSTALLING THE BATTERY

WARNING



To avoid electric shock:

- ALWAYS connect the positive (+) battery cable (red boot) first when connecting battery cables.
- ALWAYS disconnect the negative (-) battery cable (black boot) first when disconnecting battery cables.
- NEVER connect the negative (-) battery cable (black boot) to the positive (+) post on the battery.
- NEVER connect the positive (+) battery cable (red boot) to the negative (-) post on the battery.
- NEVER touch both battery posts simultaneously.
- NEVER place a metal tool across both battery posts.
- ALWAYS use insulated or nonconducting tools when installing the battery.

1. Verify the positive (+) battery cable (red boot) is securely tightened to the positive (+) battery post. Make sure boot is over battery post.

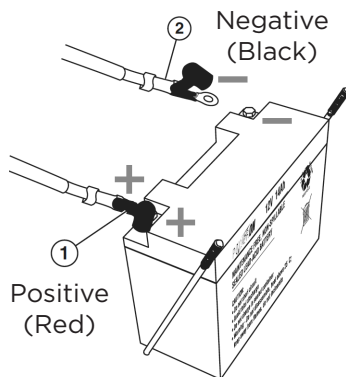


Figure 4 - Installing Battery Leads

2. Clip the battery quick connects ends together to connect battery.

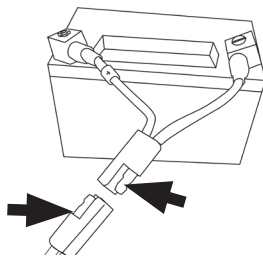



Figure 5 -Connect Battery

FEATURES



① **Electric Start Switch:** Hold in  position for 1 second to start engine. Make sure to manually open choke prior to cold starting.

② **Fuel Cap:** Close until clicking sound is heard.

③ **Control Panel:** Contains the circuit breakers and outlets.

④ **Oil Fill Plug/Dipstick:** Must be removed to add and check oil.

⑤ **Oil Drain Bolt:** Must be removed to drain engine oil.

⑥ **Never Flat Wheels:** For easy portability

⑦ **Fuel Valve:** Controls the flow of fuel from the gas tank.

⑧ **Choke Lever:** Choke must be set manually by adjusting choke lever.

⑨ **Single Piece Handle:** Includes rubber grip. Allows you to easily push or pull unit with one hand.

FEATURES



- ⑩ **Fuel Gauge:** Indicates fuel level.
- ⑫ **Spark Plug Boot (Wire):** Must be removed when servicing the engine or the spark plug.
- ⑬ **CARB Canister:** Required for models sold into and used in California.
- ⑭ **Muffler and Spark Arrester:** Avoid contact until engine is cooled down. Spark arrester prevents sparks from exiting the muffler. It must be removed for servicing.
- ⑮ **Alternator Cover:** Gain access to alternator wiring.

FEATURES

CONTROL PANEL FEATURES

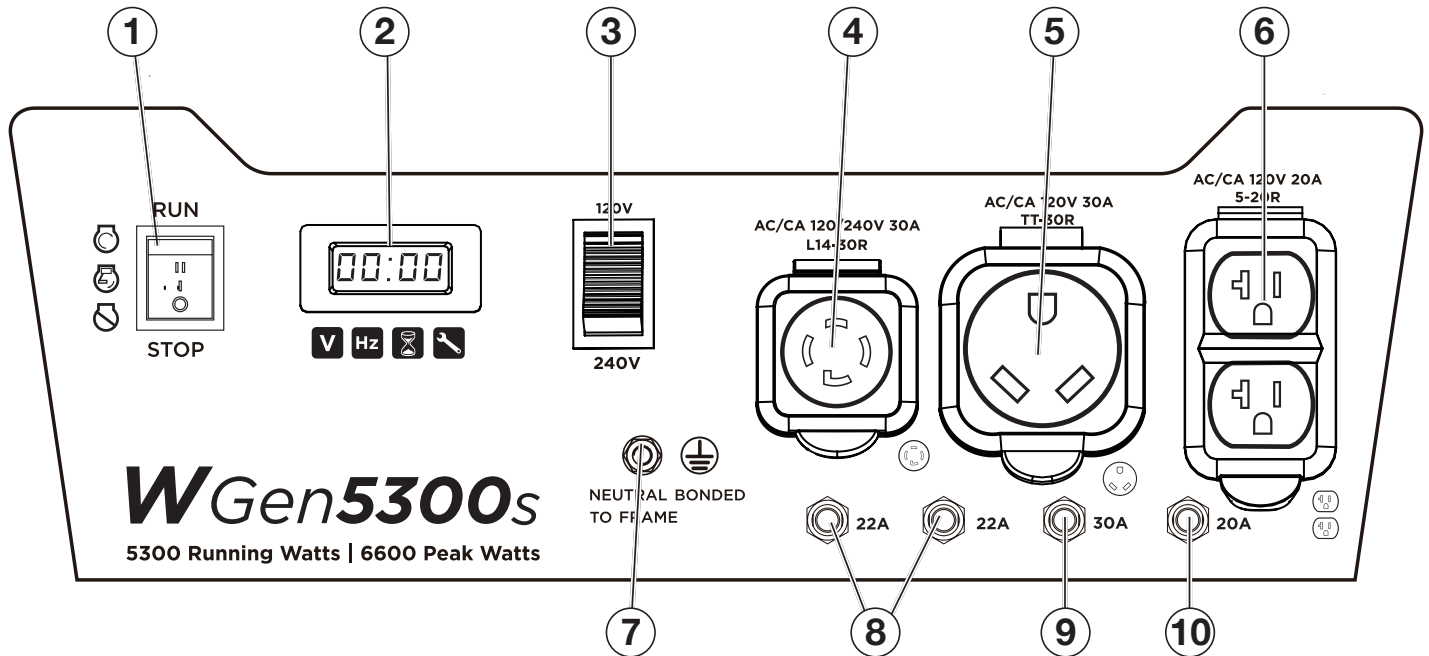


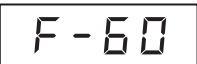





Figure 6 - Control Panel Features

- ① **Electric Start Switch:** Hold in  position until engine starts. Make sure to set choke prior to cold starting.
- ② **Data Center:** The VFT Meter is 4 state LED display that will rotate through volts, frequency, lifetime run hours and run time for each use. You can press the **MODE** button to cycle through the different displays. The meter will display volts and hertz even if there is no load connected. The VFT will also show maintenance reminders automatically after a certain period, please refer to **MAINTENANCE** information in this manual.

The frequency and voltage can vary +/- 5% and still be within tolerance.

	Voltage
	Frequency in hertz
	Lifetime run hours
	Run time for each use
	Maintenance Reminders

- ③ **Voltage Selector Switch:** Select 120 Volts or 240 Volts.
WARNING: Generator must be turned off before switching voltage output.

- ④ **120/240-Volt, 30-Amp Twist Lock Outlet (NEMA L14-30R):** Outlet can supply either 120V or 240V output.
- ⑤ **120-Volt 30 Amp Outlet (TT-30R):** Travel Trailer outlet can supply a maximum of 30 amps and 120 volts.
- ⑥ **120-Volt, 20-Amp Duplex Outlets (NEMA 5-20R):** Each outlet is capable of carrying a maximum of 20 amps on a single receptacle or a combination of both receptacles.
- ⑦ **Ground Terminal:** The ground terminal is used to ground the generator.
- ⑧ **22-Amp Circuit Breakers:** Each circuit breaker limits the current that can be delivered through each 120 Volt leg on L14-30R to 22amps.
- ⑨ **30-Amp Circuit Breaker:** Circuit breaker limits the current that can be delivered through the 120 Volt outlet to 30amps
- ⑩ **20-Amp Circuit Breaker:** Each circuit breaker limits the current that can be delivered through the 120 Volt duplex outlets to 20amps.

OPERATION

BEFORE STARTING THE GENERATOR



BEFORE STARTING THE GENERATOR, REVIEW SAFETY SECTION STARTING ON PAGE 5.

Location Selection – Before starting the generator, avoid exhaust and location hazards by verifying:

- You have selected a location to operate the generator that is outdoors and well ventilated.
- You have selected a location with a level and solid surface on which to place the generator.
- You have selected a location that is at least 15 feet (4.5 m) away from any building, other equipment or combustible material.
- If the generator is located close to a building, make sure it is not located near any windows, doors and/or vents.



⚠ 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

Always operate the generator on a level surface. Placing the generator on non level surfaces can cause the generator to tip over, causing fuel and oil to spill. Spilled fuel can ignite if it comes in contact with an ignition source such as a very hot surface.

NOTICE

Only operate the generator on a solid, level surface. Operating the generator on a surface with loose material such as sand or grass clippings can cause debris to be ingested by the generator that could:

- Block cooling vents
- Block air intake system

Weather – Never operate your generator outdoors during rain, snow or any combination of weather conditions that could lead to moisture collecting on, in or around the generator.

Dry Surface – Always operate the generator on a dry surface free of any moisture.

No Connected Loads – Make sure the generator has no connected loads before starting it. To ensure there are no connected loads, unplug any electrical extension cords that are plugged into the control panel receptacles.

NOTICE

Starting the generator with loads already applied to it could result in damage to any appliance being powered off the generator during the brief start-up period.

Grounding the Generator – The National Electric Code (NEC), as well as many local electrical codes, may require the generator to be connected to earth ground. The most common application that requires a ground rod is when you are using the generator as a separately derived system to provide back up power to your house. Typically this is when a transfer switch has a switched neutral.

As the generator application has many variables that cannot be determined by the manufacturer of the generator, a licensed electrician will need to determine if a grounding rod is needed.

If a licensed electrician has determine the application requires a ground rod, make sure it is connected to earth ground by connecting the ground terminal on the control panel to earth ground using copper wire (minimum 10 AWG). Consult a qualified electrician for local grounding requirements.

Neutral Bonded: There is a permanent conduct or between the generator (stator winding) and the frame.

⚠ WARNING

Be sure the generator is properly connected to earth ground before operating. The generator must be grounded to prevent electrical shock due to faulty appliances.

High Altitude Operation

Engine power is reduced the higher you operate above sea level. Output will be reduced approximately 3.5% for every 1000ft of increased altitude from sea level. This is a natural occurrence and cannot be adjusted by engine. Increased exhaust emissions can also result due to increased fuel mixture. Other issues include hard starting, increased fuel consumption and spark plug fouling. Contact our service team **1-855-944-3571** for altitude part kits.

High Altitude Carburetor Kit Part Number: 518965

OPERATION

POWER CORDS

Using Extension Cords

Westinghouse Outdoor Power Equipment, LLC assumes no responsibility for the content within this table. The use of this table is the responsibility of the user only. This table is intended for reference only. The results produced by using this table are not guaranteed to be correct or applicable in all situations as the type and construction of cords are highly variable. Always check with local regulations and a licensed electrician prior to installing or connecting an electrical appliance.

Extension Cord Wire Gauge Size									
AMPS	LENGTH OF EXTENSION CORD (ft)								
	10	20	30	40	50	60	80	100	120
5	20	18	16	14	12	12	10	10	8
10	18	16	14	12	12	10	10	8	8
15	16	14	12	12	10	10	8	8	6
20	14	12	12	10	10	8	8	6	6
25	12	12	10	10	8	8	6	6	6
30	12	10	10	8	8	6	6	6	6
35	10	10	8	8	6	6	6	6	6

Using Westinghouse Power Cord

Use the extension cord chart to determine the size of the conductor for extension cord applications. Determine the distance of the generator to the appliance on the top line of the chart. Then select the rated amperage of the generator on the left side of the chart. Where the two meet is the size of the conductor required for the application.

When using the Westinghouse fan power cord (sold separate) connect to the 120/240V outlet. The opposite end of the power cord is a fan tail receptacle with 2 green receptacles and 2 red receptacles. Each receptacle is rated at 120 volts AC. To balance the load on the generator’s alternator, use the red and green identifiers on the fan tail receptacle. To keep the load balanced, connect the loads so that both color receptacles are used. An example is one in red and one in green. Do not connect 2 in red and none in green, or 2 in green and none in red. If only one color receptacle is used with multiple loads, the alternator may experience an unbalanced load, causing undue vibration to generator.

Using Voltage Selector Switch

This generator features 120V/240V selector switch, which gives the user the ability to double the power in the generator for more demanding applications. The voltage selector switches the dual 120V AC windings of the generator to produce “120V” or “240V”. If a 240V appliance is connected to the 4-prong L14-30R receptacle, the switch must be in the “240V” position. If only 120V appliances are being connected to the generator select the “120V” position to double the 120V amperage and automatically balance the load.

WARNING - Only change the Voltage Selector Switch with the generator off. Do not switch the voltage while the generator is running or powering appliances.

OPERATION

CONNECTING THE GENERATOR TO A BUILDING ELECTRICAL SYSTEM

It is recommended to use a manual transfer switch when connecting directly to a buildings electrical system. Connecting a portable generator to a buildings electrical system must be made in strict compliance with all national and local electrical codes and laws, and be completed by a qualified electrician.

TRANSFER SWITCH CONNECTIONS

DANGER



Make sure the generator is turned off before performing maintenance below.

The Westinghouse generator is wired with the neutral bonded to ground. If you are connecting your generator to a panel board transfer switch, a licensed electrician will need to consider removing the bonded neutral to ensure proper operation of generator. Begin by removing the alternator cover. Once the cover is off remove both nuts that hold the white bonded ground jumper wire in place (see Figure 6). Once the jumper wire is removed, tighten the nuts back in place, make sure to not remove any other wires.

If the bonded neutral is removed the generator must be relabeled as floating neutral on the control panel.

Always keep the jumper wire in case it is needed for future use when not connected to a transfer switch.

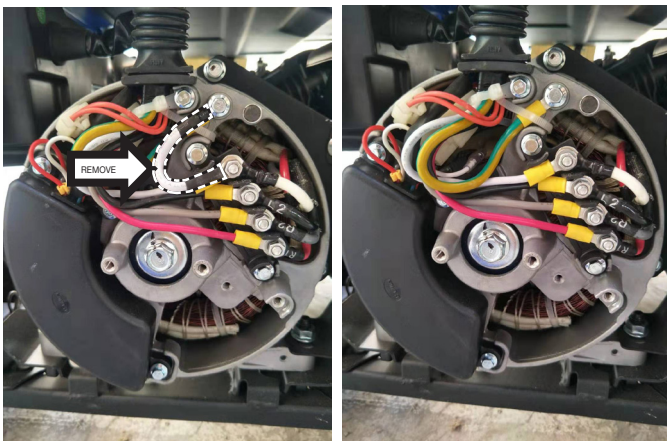


Figure 7 - Remove Bonded Jumper Wire (White)

ADDING / CHECKING ENGINE FLUIDS AND FUEL



BEFORE ADDING/CHECKING ENGINE FLUIDS AND FUEL, REVIEW SAFETY SECTION STARTING ON PAGE 5.

DANGER



Filling the fuel tank with gasoline while the generator is running can cause gasoline to leak and come in contact with hot surfaces that can ignite the gasoline.

Before starting the generator, always check the level of:

- Engine oil
- Gasoline in the fuel tank

Once the generator is started and the engine gets warm, it is not safe to add gasoline to the fuel tank or engine oil to the engine while the engine is running or the engine and muffler are hot.

CHECKING AND / OR ADDING ENGINE OIL

WARNING



Internal pressure can build in the engine crankcase while the engine is running. Removing the oil fill plug/dipstick while the engine is hot can cause extremely hot oil to spray out of the crankcase and can severely burn skin. Allow engine oil to cool for several minutes before removing the oil fill plug/dipstick.

The unit as shipped does not contain oil in the engine. You must add engine oil before starting the generator for the first time. See *Checking Engine Oil* and *Adding Engine Oil* for instructions on checking engine oil level and the procedure for adding engine oil.

NOTICE

The engine does not contain engine oil as shipped. Attempting to start the engine can damage engine components. The owner of the generator is responsible to ensure the proper oil level is maintained during the operation of the generator. Failure to maintain the proper oil level can result in engine damage.

OPERATION

ADDING GASOLINE TO THE FUEL TANK

WARNING



Never refuel the generator while the engine is running.



Always turn the engine off and allow the generator to cool before refueling.

Required Gasoline – Only use gasoline that meets the following requirements:

- Unleaded gasoline only
- Gasoline with maximum 10% ethanol added
- Gasoline with an 87 octane rating or higher

Filling the Fuel Tank – Follow the steps below to fill the fuel tank:

1. Shut off the generator.
2. Allow the generator to cool down so all surface areas of the muffler and engine are cool to the touch.
3. Move the generator to a flat surface.
4. Clean area around the fuel cap.
5. Remove the fuel cap by rotating counterclockwise.
6. Slowly add gasoline into the fuel tank. Be very careful not to overfill the tank. The gasoline level should NOT be higher than the filler neck (see Figure 8).
7. Install the fuel cap by rotating clockwise until you hear a click, indicating the cap is completely installed.

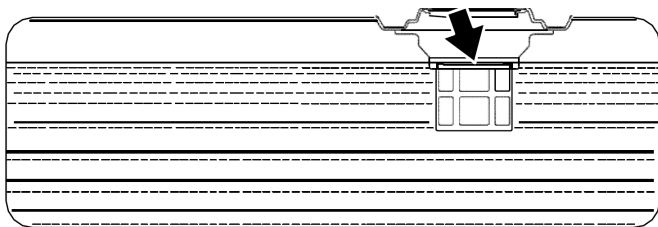


Figure 8 - Maximum Gasoline Fill Level

CAUTION



Avoid prolonged skin contact with gasoline. Avoid prolonged breathing of gasoline vapors.

BEFORE STARTING THE GENERATOR



BEFORE STARTING THE GENERATOR, REVIEW SAFETY SECTION STARTING ON PAGE 5.

Before attempting to start the generator, verify the following:

- The engine is filled with engine oil. See *Checking Engine Oil*.
- The generator is situated in a proper location (*Location Selection*).
- The generator is on a dry surface (*Weather and Dry Surface*).
- All loads are disconnected from the generator (*No Connected Loads*).
- The generator is properly grounded the Generator.

DANGER



Never use the generator in a location that is wet or damp. Never expose the generator to rain, snow, water spray or standing water while in use. Protect the generator from all hazardous weather conditions. Moisture or ice can cause a short circuit or other malfunction in the electrical circuit.



Never operate the generator in an enclosed area. Engine exhaust contains carbon monoxide. Only operate the generator outside and away from windows, doors and vents.

NOTICE

The engine is equipped with a low oil shutdown switch. If the oil level becomes low, the engine may shut down and not start until the oil is filled to the proper level. Poor oil quality may interfere with the operation of the low oil shutdown switch.

The owner of the generator is responsible to ensure the proper oil level is maintained during the operation of the generator. Failure to maintain the proper oil level can result in engine damage.

NOTICE

DO NOT connect 240V loads to a 120V receptacles. DO NOT connect 3-phase loads to the generator. DO NOT connect 50Hz loads to the generator. Let engine stabilize and warm up for a few minutes before adding load.

OPERATION

POWER OUTPUT AND DEMAND

120-Volt AC devices have two different electric power demands that must be taken into consideration, namely the running power and the starting/peak power. Both are measured in Watts (typically abbreviated as “W”).

The steady state continuous load is the running power demand and this is often marked on the device near its model number or serial number. Sometimes the device might only be marked with its voltage (i.e. 120 V) and current draw (e.g. 6 Amp or 6 A), in which case the running power demand in Watts can be obtained by multiplying the voltage times the current, e.g. $120\text{ V} \times 20\text{ A} = 2,400\text{ W}$.

Simple resistive 120-Volt AC devices such as incandescent bulbs, toasters, heaters, etc. have no extra power demand when starting, and so their starting power demands are the same as their running power demands.

More complex 120-Volt AC devices containing inductive or capacitive elements such as electric motors have a momentary extra power demand when starting, which can be up to seven times the running power demand or more. Manufacturers of such devices rarely publish this starting power demand and so it's often necessary to estimate it. A rule of thumb for devices fitted with an electric motor is to apply a starting power multiplier of 1.2 for small hand-held or portable devices and a value of 3.5 for larger stationary devices. For example, a 900 W angle grinder can be assumed to have a starting power demand of at least $1.2 \times 900\text{ W}$, which equals 1,080 W. Similarly, a 1,650 W air compressor can be assumed to have a starting power demand of at least $3.5 \times 1,650\text{ W}$, which equals 5,775 W.

To prevent overloading of the generator's 120-Volt AC system:

1. Add up the running power demand of all the 120-Volt AC devices that will be connected to the generator at one time. This total must not be greater than the generator's specified running power output.
2. Add up the running power demand again, but for the largest motor-driven device use the value of its starting power demand instead of its running power demand. This total must not be greater than the generator's specified starting power output.
3. The total running power demand of all the devices that will be connected to any one of the generator's outlets must not exceed the generator's specified running power output or 3,700 W, whichever is the lesser.

BREAKING IN THE ENGINE

In order to break in the engine properly, run the generator with no load for the first hour. Then after 25 hours of normal operation change the oil.

STARTING THE GENERATOR

1. Move generator to a flat and dry surface outside in a well ventilated area.
2. Check oil and fuel levels.
3. Make sure nothing is plugged into power outlets
4. Verify the battery is installed and both battery cables are attached to their corresponding polarity. (See Installing the Battery on page 11)
5. Make sure the circuit breakers are properly set (see Figure 9).

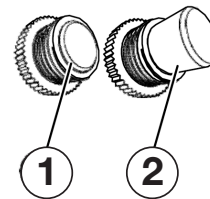


Figure 9 - Breakers

- ① Circuit Breaker Operating Position
- ② Circuit Breaker Tripped Position

6. Move the fuel shutoff valve to the **ON** position (see Figure 10).

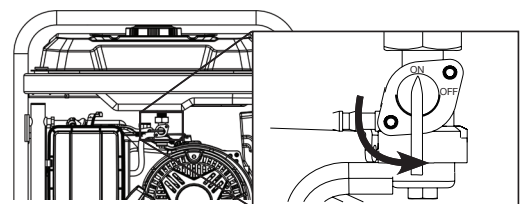


Figure 10 - Fuel Shut Off - ON

7. If the engine is cold, move the choke lever to the **ON** position (see Figure 11 below). If the engine is warm turn choke **OFF**.

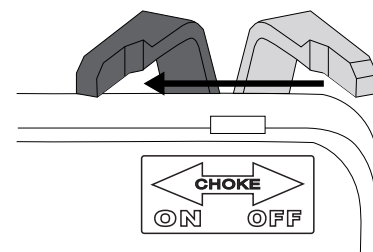


Figure 11 - Choke - ON

OPERATION

8. Choose starting method:




- a. Electric Start:** Push and hold the engine control switch in the  position until the engine starts. Once the engine starts, release the engine control switch; the switch will automatically move into the  position (see Figure 12 below).




Figure 12 - Engine Control Switch - START

NOTICE

Failure to release the engine control switch once the engine starts could result in damage to the generator.

Never push the engine control switch to the  position while the engine is running; this could damage the generator.

Note: If the engine fails to start after 5 seconds, release the engine control switch. Let the generator sit idle for 15 seconds and then repeat step 8. If the cranking speed drops after each unsuccessful attempt, then the battery may not be adequately charged. Manually start the generator by following steps below:

- b. Manual Start:** Make sure the engine control switch is in the  position. Firmly grasp and pull the recoil handle slowly until you feel increased resistance. At this point, apply a rapid pull while pulling up and slightly away from the generator.

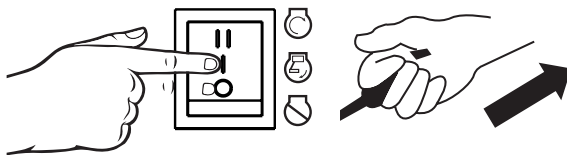


Figure 13 - Cold Start Choke Lever - OFF

9. After cold starting, as the engine starts and stabilizes, gradually move the choke lever back to the **OFF** position (see Figure 14 below).

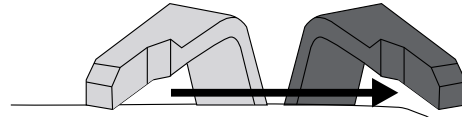



Figure 14 - Cold Start Choke Lever - OFF

10. Plug in electric devices.

STOPPING THE GENERATOR

Normal Operation

During normal operation, use the following steps to stop your generator:

1. Remove any connected loads from the control panel receptacles.
2. Allow the generator to run at “no load” to reduce and stabilize engine and alternator temperatures.
3. Position the engine control switch to .

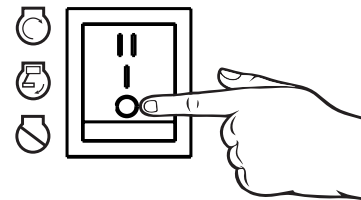


Figure 15 - Stopping the generator

NOTE If you plan to store the generator after use, stop the generator by turning the fuel shutoff valve to the **OFF** position and allow the fuel to be consumed from the carburetor.

4. Turn the fuel valve to the **OFF** position.

During an Emergency

If there is an emergency and the generator must be stopped quickly, position the engine control switch to the **STOP** position immediately.

MAINTENANCE



MAINTENANCE REMINDERS

The VFT meter on this unit has programmed maintenance reminders. When the VFT meter shows:

P 0 2 5 This is to remind you to change the oil after the initial 25 hours of run time.

P 0 5 0 It is time to clean the air filter.

P 1 0 0 It is time change/clean the fuel filter, clean the air filter, and change the oil.

MAINTENANCE



BEFORE PERFORMING MAINTENANCE ON THE GENERATOR, REVIEW THE SAFETY SECTION STARTING ON PAGE 5, AS WELL AS THE FOLLOWING SAFETY MESSAGES.

⚠ WARNING



Avoid accidentally starting the generator during maintenance by removing the spark plug boot from the spark plug. For electric start generators, also disconnect the battery cables from the battery (disconnect the black negative (-) cable first) and place the cables away from the battery posts to avoid arcing.



Allow hot components to cool to the touch prior to performing any maintenance procedure.



Internal pressure can build in the engine crankcase while the engine is running. Removing the oil fill plug/ dipstick while the engine is hot can cause extremely hot oil to spray out of the crankcase and can severely burn skin. Allow engine oil to cool for several minutes before removing the oil fill plug/dipstick.



Always perform maintenance in a well- ventilated area. Gasoline fuel and fuel vapors are extremely flammable and can ignite under certain conditions.

MAINTENANCE SCHEDULE

⚠ WARNING



Failure to perform periodic maintenance or not following maintenance procedures can cause the generator to malfunction and could result in death or serious injury.

NOTICE

Periodic maintenance intervals vary depending on generator operating conditions. Operating the generator under severe conditions, such as sustained high-load, high-temperature, or unusually wet or dusty environments, will require more frequent periodic maintenance. The intervals listed in the maintenance schedule should be treated only as a general guideline.

⚠ CAUTION



Avoid skin contact with engine oil or gasoline. Prolonged skin contact with engine oil or gasoline can be harmful. Frequent and prolonged contact with engine oil may cause skin cancer. Take protective measures and wear protective clothing and equipment. Wash all exposed skin with soap and water.

Following the maintenance schedule is important to keep the generator in good operating condition. The following is a summary of maintenance items by periodic maintenance intervals.

TABLE 1: MAINTENANCE SCHEDULE - OWNER PERFORMED

Maintenance Item	Before Every Use	After First 25 Hours or First Month of Use	After 50 Hours of Use or Every 6 Months	After 100 Hour of Use or Every 6 Months	After 300 Hours of Use or Every Year
Engine Oil	Check Level	Change	Change	-	-
Cooling Features	Check/Clean	-	-	-	-
Air Filter	Check	-	Clean*	-	Replace
Spark Plug	-	-	-	Check/Clean	Replace
Spark Arrestor	-	-	-	Check/Clean	-

*Service more frequently if operating in dry and dusty conditions

MAINTENANCE

TABLE 2: MAINTENANCE SCHEDULE - AUTHORIZED WESTINGHOUSE SERVICE DEALER PERFORMED

Maintenance Item	Before Every Use	After First 25 Hours or First Month of Use	After 50 Hours of Use or Every 6 Months	After 100 Hour of Use or Every 6 Months	After 300 Hours of Use or Every Year
Valve Clearance	-	-	-	-	Check/Adjust
Fuel Filter	-	-	-	Check/Clean	-
Idle Speed	-	-	-	-	Check/Adjust

INSPECTING&CLEANING THE SPARK ARRESTOR

WARNING



Hot Surfaces. When operating machine, do not touch hot surfaces. Keep machine away from combustibles during use. Hot surfaces could result in severe burns or fire.

Check and clean the spark arrestor after every 100 hours of use or 6 months.

1. Generator must be cold to perform this maintenance.
2. Move the inverter to a flat, level surface.
3. Slide in screwdriver into side slot and remove screw A, holding on spark arrestor. Pull out B&C (see Figure 16).

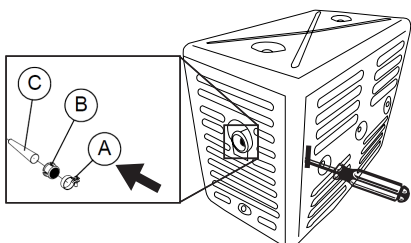


Figure 16: Remove Screw Holding Spark Arrestor

4. If the spark arrestor screen shows signs of wear (rips, tears or large openings in the screen), replace the spark arrestor screen. **NOTE:** Only use Westinghouse spark arrestors as replacements.
5. If screen is not torn then clean using a wire brush, commercial solvent, or compressed air. Remove any dirt and debris that may have collected on the spark arrestor screen (see Figure 17).

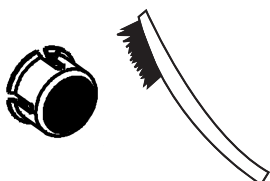


Figure 17: Clean spark arrestor with wire brush

6. Install the spark arrestor back into the muffler. Make sure to fully push it in so that it is tight on the tip of the muffler.

DRAINING CARBURETOR FLOAT BOWL

WARNING



Be careful to no let fuel spill onto your hands.

1. Make sure the generator is off and you are away from any open flames.
2. Place pan (or suitable container) under the carburetor assembly.
3. Loosen screw at bottom of the bowl, place a tube leading into the pan and allow gas to drain out.
4. After all the gas has drained out, tighten the screw.

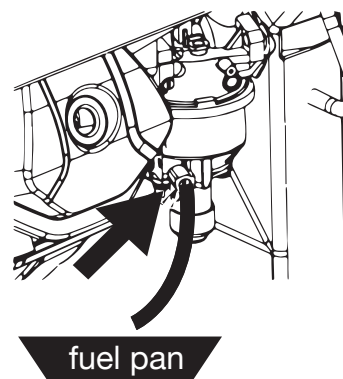


Figure 18: Drain Float Bowl

MAINTENANCE

ENGINE OIL MAINTENANCE

Engine Oil Specification

1. Only use the engine oil specified in Figure 19.
2. Only use 4-stroke/cycle engine oil. **NEVER USE 2-STROKE/CYCLE OIL.** Synthetic oil is an acceptable substitute for conventional oil.

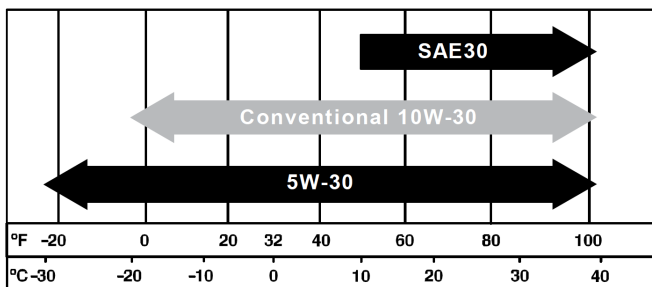


Figure 19 - Recommended Oil

CHECKING ENGINE OIL

NOTICE

Always maintain proper engine oil level. Failure to maintain proper engine oil level could result in severe damage to the engine and/or shorten the life of the engine. Always use the specified engine oil. Failure to use the specified engine oil can cause accelerated wear and/or shorten the life of the engine.

Engine oil level should be checked before every use.

1. Always operate or maintain the generator on a flat surface.
2. Stop engine if running.
3. Let engine sit and cool for several minutes (allow crankcase pressure to equalize).
4. With a damp rag, clean around the oil fill plug/dipstick.
5. Remove oil fill plug/dipstick (see Figure 20 below).

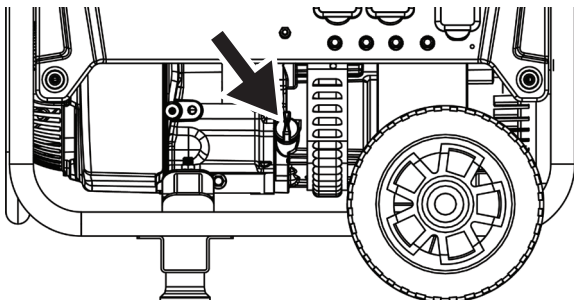


Figure 20 - Oil Fill Plug/Dipstick

6. Check oil level: When checking the engine oil, remove the oil fill plug/dipstick and wipe it clean. Thread the oil fill plug/dipstick all the way back in and then remove and check the oil level on the oil fill plug/dipstick.

- **Acceptable Oil Level** – Oil is visible on the crosshatches between the H and L lines on the oil fill plug/dipstick (see Figure 21).
- **Low Oil** – Oil is below the L line on the oil fill plug/dipstick.

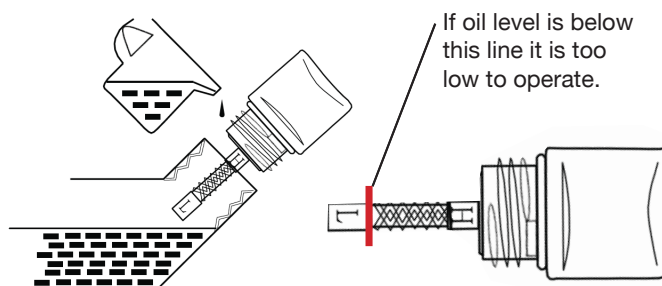


Figure 21 - Checking Oil Level

ADDING ENGINE OIL

1. Always operate or maintain the generator on a flat surface.
2. Stop engine if running.
3. Let engine sit and cool for several minutes (allow crankcase pressure to equalize).
4. Thoroughly clean around the oil fill plug/dipstick.
5. Remove oil fill plug/dipstick and wipe clean.
6. Select the proper engine oil as specified in Figure 19.
7. Using the supplied funnel, slowly add engine oil to the engine. Stop frequently to check the level to avoid overfilling.
8. Continue to add oil until the oil is at the correct level.
9. Replace the oil fill plug/dipstick.

MAINTENANCE

CHANGING ENGINE OIL

1. Always operate or maintain the generator on a flat surface.
2. Stop the engine.
3. Let engine sit and cool for several minutes (allow crankcase pressure to equalize).
4. Place oil pan (or suitable container) under the oil drain plug (see Figure 21).
5. With a damp rag, thoroughly clean around the oil drain plug.
6. Remove the oil drain plug (see Figure 22). Once removed, place the oil drain plug on a clean surface.

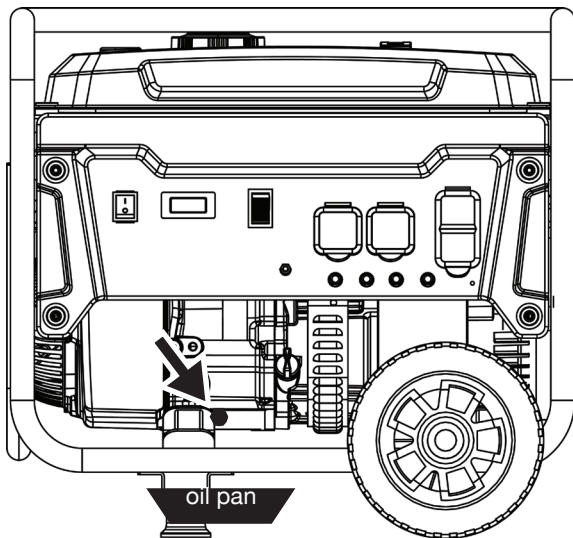


Figure 22 - Oil Drain Plug

7. Allow oil to completely drain.
8. Replace oil drain plug.
9. Fill crankcase with oil following the steps outlined in *Adding Engine Oil*.

NOTICE

Never dispose of used engine oil by dumping the oil into a sewer, on the ground, or into ground water or waterways. Always be environmentally responsible. Follow the guidelines of the EPA or other governmental agencies for proper disposal of hazardous materials. Consult local authorities or reclamation facility.

AIR FILTER MAINTENANCE

⚠ WARNING



Never use gasoline or other flammable solvents to clean the air filter. Use only household detergent soap to clean the air filter.

Cleaning the Air Filter

The air filter must be cleaned after every 50 hours of use or 3 months (frequency should be increased if generator is operated in a dusty environment).

1. Turn off the generator and let it cool for several minutes if running.
2. Move the generator to a flat, level surface.
3. Unclip the clips on the side of the air filter cover (Figure 23).

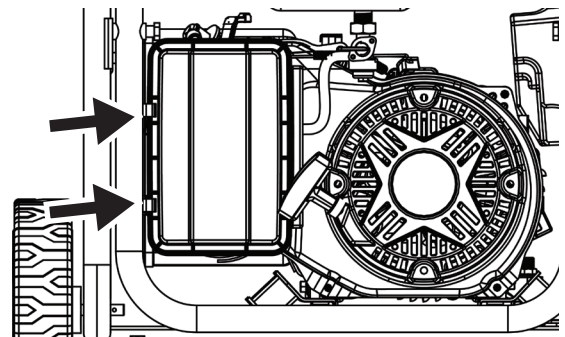


Figure 23 - Unclip air filter

4. Remove the paper air filter.
5. Clean the paper air filter with compressed air. If the air filter is ripped or damaged you must replace it.

NOTICE



NEVER twist or tear the foam air filter element during cleaning. Always wear eye protection when using compressed air to clean filter.

MAINTENANCE

Cleaning the Air Filter - Continued

6. Make sure paper air filter (A) and rubber cap (B) are installed correctly before securing the air filter cover (C).

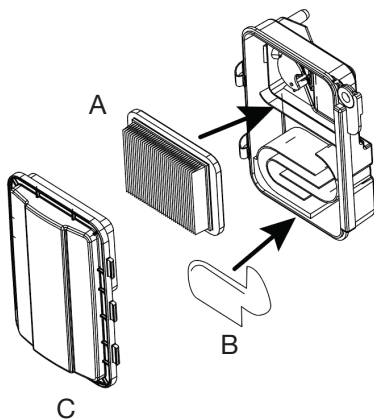


Figure 24

SPARK PLUG MAINTENANCE

The spark plug must be checked and cleaned after every 100 hours of use or 6 months and must be replaced after 300 hours of use or every year.

1. Stop the generator and let it cool for several minutes if running.
2. Move the generator to a flat, level surface.
3. Remove the spark plug boot by firmly pulling the plastic spark plug boot handle directly away from the engine (see Figure 25).

NOTICE

Never apply any side load or move the spark plug laterally when removing the spark plug. Applying a side load or moving the spark plug laterally may crack and damage the spark plug boot.

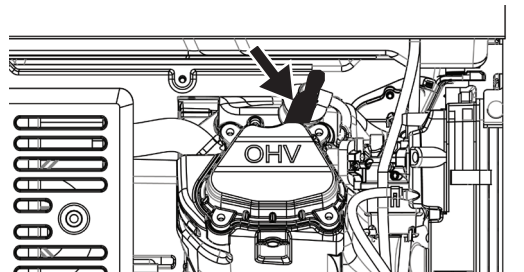
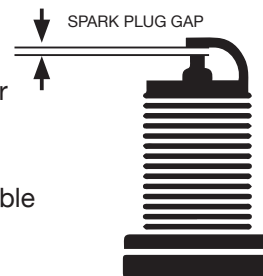


Figure 25 - Remove Spark Plug Boot

4. Clean area around the spark plug.
5. Using the 13/16" spark plug socket wrench provided, remove the spark plug from the cylinder head.
6. Place a clean rag over the opening created by the removal of the spark plug to make sure no dirt can get into the combustion chamber.

Inspect the spark plug for:

- Cracked or chipped insulator
- Excessive wear
- Spark plug gap (the acceptable limit of 0.027–0.032 in. [0.70 – 0.80 mm]).



NOTICE

Use only recommended spark plugs when servicing. The manufacturer is not responsible for engine damage when using spark plugs not recommended by the manufacturer.

7. Install the spark plug by carefully following the steps outlined below:
 - a. Carefully insert the spark plug back into the cylinder head. Hand-thread the spark plug until it bottoms out.
 - b. Using the 13/16" spark plug socket wrench provided, turn the spark plug to ensure it is fully seated.
 - c. Replace the spark plug boot, making sure the boot fully engages the spark plug's tip.

Recommended Spark Plug Replacement:

NGK: (1034) BP7ES (Replacement)

Torch: F7TC (OE Spark Plug)

Westinghouse Part Number: 180526

MAINTENANCE

CHECKING AND ADJUSTING VALVE LASH

⚠ CAUTION



Checking and adjusting valve lash must be done when the engine is cold.

1. Remove the rocker arm cover and carefully remove the gasket. If the gasket is torn or damaged, it must be replaced.
2. Remove the spark plug so the engine can be rotated more easily.
3. Rotate the engine to top dead center (TDC) of the compression stroke. Looking through the spark plug hole, the piston should be at the top.
4. Both the rocker arms should be loose at TDC on the compression stroke. If they are not, rotate the engine 360°.
5. Insert a feeler gauge between the rocker arm and the push rod and check for clearance (see Figure 26). See Table 3 for valve lash specifications.

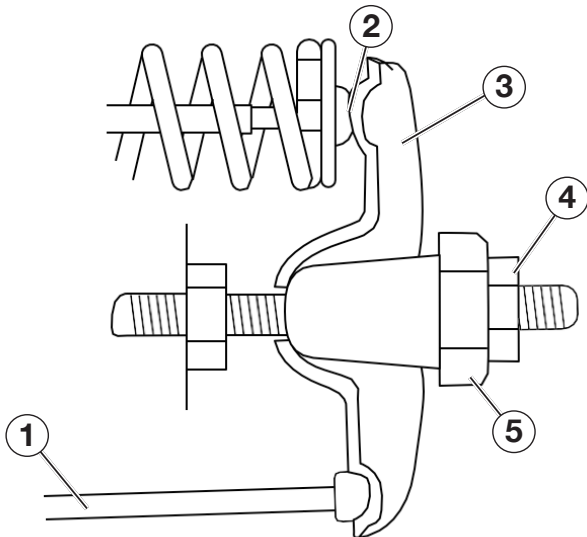


Figure 26

(1) Push Rod, (2) Feeler Gauge Area
(3) Rocker Arm, (4) Jam Nut, (5) Adjusting Nut

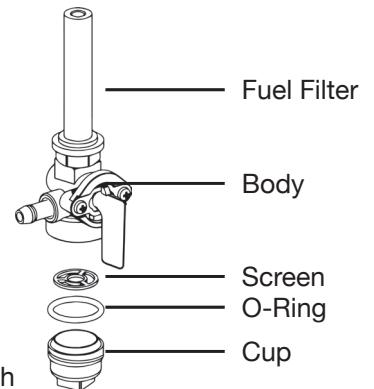
(Table 3) Standard Valve Lash

	Intake Valve	Exhaust Valve
Valve Lash	0.0035 ± 0.0043 in (0.09 ± 0.11 mm)	0.0043 ± 0.0051 in (0.11 ± 0.13 mm)
Bolt Torque	8-12N.m	8-12N.m

6. If an adjustment is required, hold the adjusting nut and loosen the jam nut.
7. Turn the adjusting nut to obtain the correct valve lash. When the valve lash is correct, hold the adjusting nut and tighten the jam nut to 106 in-lb (12 N•m).
8. Recheck the valve lash after tightening the jam nut.
9. Perform this procedure for both the intake and exhaust valves.
10. Install the rocker arm cover, gasket and spark plug.

CLEANING FUEL STRAINER AND FUEL FILTER

1. Remove all fuel from gas tank.
2. Loosen bolt holding fuel valve in bottom of the fuel tank.
3. Remove fuel valve assembly and unscrew bottom cup.
4. Clean fuel filter, screen and strainer cup with brush and wash off with gasoline.
5. Tightly fasten the cup to main body and reinstall tightly to bottom of gas tank to prevent leaks.



CLEANING THE GENERATOR

It is important to inspect and clean the generator after every use.

Clean All Engine Air Inlet and Outlet Ports – Make sure all engine air inlet and outlet ports are clean of any dirt and debris to ensure the engine does not run hot.

Clean All Engine Cooling Fins – Use a damp rag and a brush to loosen and remove all dirt on or around the engine's cooling fins.

Clean All Alternator Cooling Air Inlets and Exhaust

Ports – Make sure the cooling air inlets and exhaust ports of the alternator are free of any debris and obstructions. Use a vacuum cleaner to remove dirt and debris stuck in the cooling air inlets and exhaust ports.

General Cleaning of the Generator – Use a damp rag to clean all remaining surfaces.

MAINTENANCE

STORING GENERATOR

WARNING




Never store a generator with fuel in the tank indoors or in a poorly ventilated area where the fumes can come in contact with an ignition source such as a: 1) pilot light of a stove, water heater, clothes dryer or any other gas appliance; or 2) spark from an electric appliance.

NOTICE

Gasoline stored for as little as 60 days can go bad, causing gum, varnish and corrosive buildup in fuel lines, fuel passages and the engine. This corrosive buildup restricts the flow of fuel, preventing an engine from starting after a prolonged storage period.

Proper care should be taken to prepare the generator for any storage.

1. Make sure the Engine Switch is switched to  so the generator does not draw power from battery.
2. Clean the generator as outlined in *Cleaning the Generator*.
3. Drain all gasoline from the fuel tank as best as possible.

4. With the fuel shut off valve open, start the engine and allow the generator to run until all the remaining gasoline in the fuel lines and carburetor is consumed and the engine shuts off.
5. Close the fuel shut off valve.
6. Drain the remaining gas in the carburetor float bowl outlined in *Draining Carburetor Float Bowl*.
7. Change the oil (see *Changing Engine Oil*).
8. Remove the spark plug (see *Spark Plug Maintenance*) and place about 1 tablespoon of oil in the spark plug opening. While placing a clean rag over the spark plug opening, slowly pull the coil handle to allow the engine to turn over several times. This will distribute the oil and protect the cylinder wall from corroding during storage.
9. Replace the spark plug (see *Spark Plug Maintenance*).
10. Move the generator to a clean, dry place for storage.

TROUBLESHOOTING

WARNING



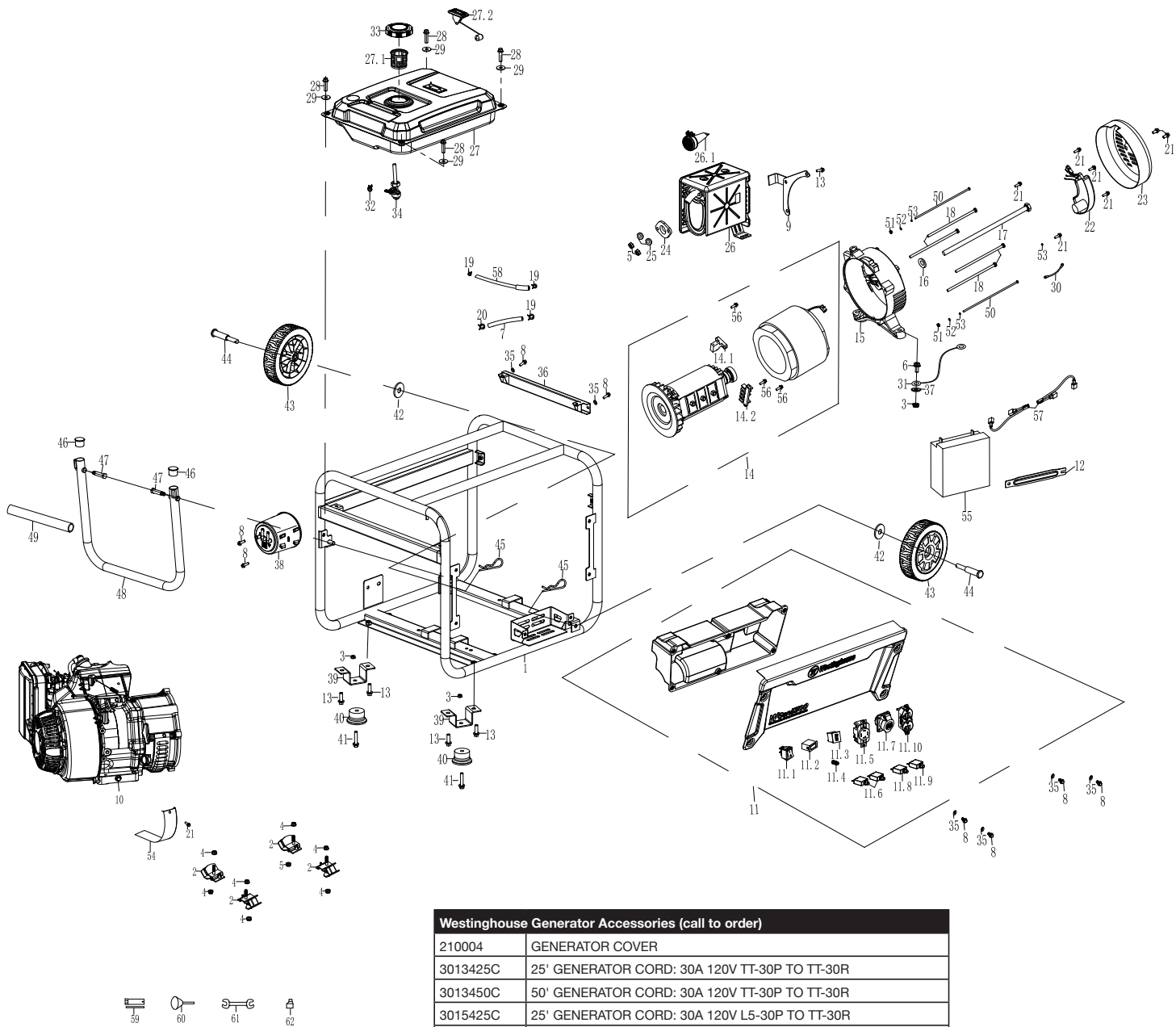
Before attempting to service or troubleshoot the generator, the owner or service technician must first read the owner's manual and understand and follow all safety instructions. Failure to follow all instructions may result in conditions that can lead to voiding of the EPA certification or product warranty, serious personal injury, property damage or even death.

PROBLEM	POTENTIAL CAUSE	SOLUTION
Engine is running, but no electrical output	1. Circuit breakers are tripped.	1. Reset the circuit breakers and check for overload condition.
	2. The power cord's plug connector is not fully engaged in the generator's outlet.	2. Verify plug connector is firmly engaged in the generator's outlet. If using the 240V outlet, make sure plug connector is rotated 1/4 turn in the clockwise direction.
	3. Faulty or defective power cord	3. Replace power cord.
	4. Faulty or defective electrical appliance	4. Try connecting a known good appliance to verify the generator is producing electrical power.
	5. If trying 1-5 above does not solve the problem, the cause might be the generator has a fault.	5. Take the generator to your nearest authorized service dealer.

TROUBLESHOOTING

PROBLEM	POTENTIAL CAUSE	SOLUTION
Engine will not start or remain running while trying to start.	1. Fuel shutoff valve is in the OFF position.	1. Move the fuel shut off valve to the ON position.
	2. Generator is out of gasoline.	2. Add gasoline to the generator.
	3. Fuel flow is obstructed.	3. Inspect and clean fuel delivery passages.
	4. Starting battery may have insufficient charge	4. On electric start models only. Check battery output and charge battery as necessary.
	5. Dirty air filter	5. Check and clean the air filter.
	6. Low oil level shut down switch is preventing the unit from starting.	6. Check oil level and add oil if necessary.
	7. Spark plug boot is not fully engaged with the spark plug tip.	7. Firmly push down on the spark plug boot to ensure the boot is fully engaged
	8. Spark plug is faulty.	8. Remove and check the spark plug. Replace if faulty.
	9. Dirty/plugged spark arrestor	9. Check and clean the spark arrestor.
	10. Stale fuel	10. Drain fuel and replace with fresh fuel.
	11. If trying 1-11 above does not solve the problem, the cause might be the generator has a fault.	11. Take the generator to your nearest authorized service dealer.
Generator suddenly stops running.	1. Generator is out of fuel.	1. Check fuel level. Add fuel if necessary.
	2. The low oil shut down switch has stopped the engine.	2. Check oil level and add oil if necessary.
	3. Too much load	3. Restart the generator and reduce the load.
	4. If trying 1-3 above does not solve the problem, the cause might be a fault in the generator.	4. Take the generator to your nearest authorized service dealer.
Engine runs erratic; does not hold a steady RPM.	1. Dirty air filter	1. Clean the air filter.
	2. Applied loads maybe cycling on and off	2. As applied loads cycle, changes in engine speed may occur; this is a normal condition.
	3. If trying 1-3 above does not solve the problem, the cause might be a fault in the generator	3. Take the generator to your nearest authorized service dealer.

WGen5300s EXPLODED VIEW



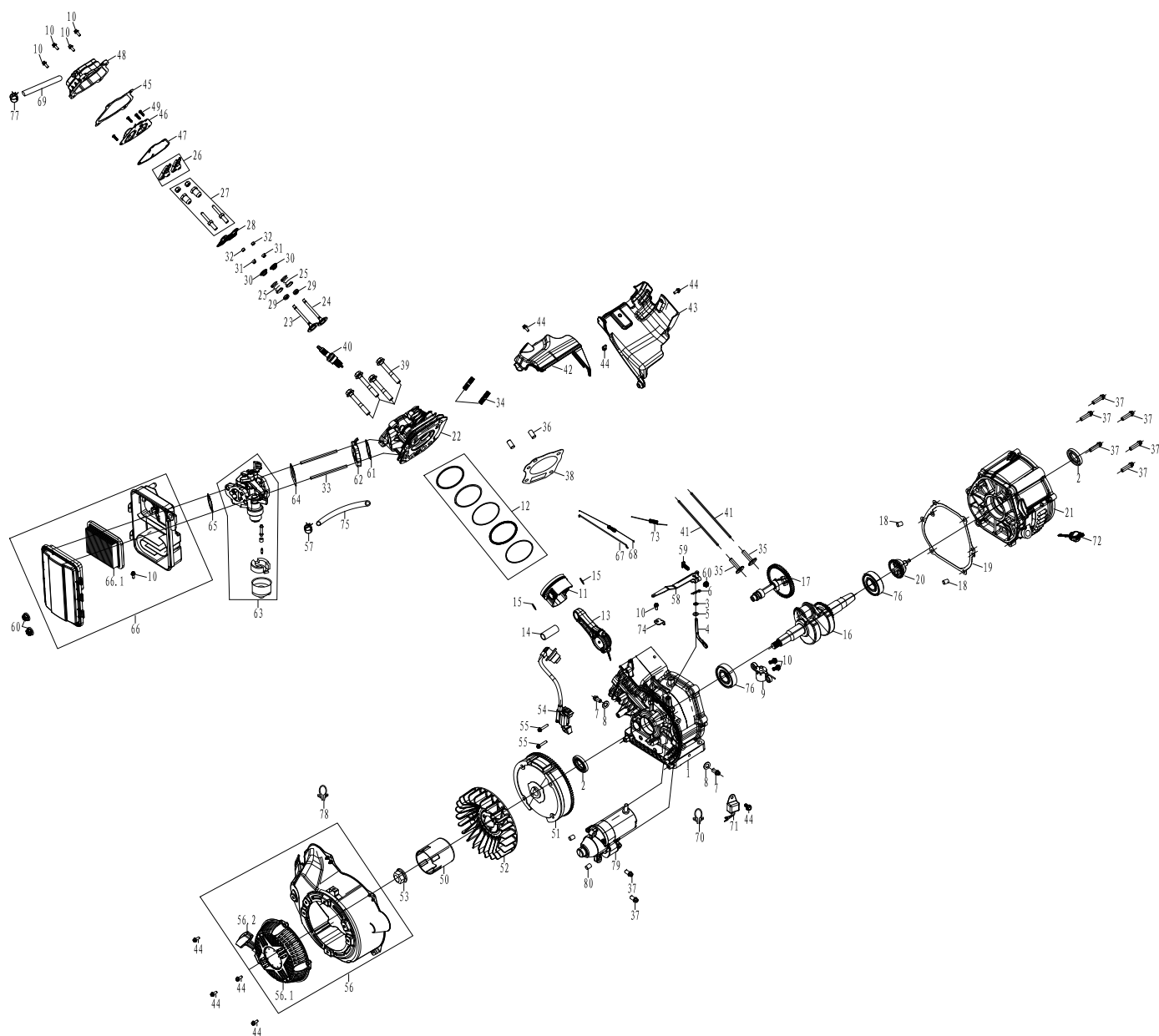
Westinghouse Generator Accessories (call to order)	
210004	GENERATOR COVER
3013425C	25' GENERATOR CORD: 30A 120V TT-30P TO TT-30R
3013450C	50' GENERATOR CORD: 30A 120V TT-30P TO TT-30R
3015425C	25' GENERATOR CORD: 30A 120V L5-30P TO TT-30R
30151425C	25' GENERATOR CORD: 30A 120V L5-30P TO (3X) 5-20R
3021225C	25' GENERATOR CORD: 30A 120V L14-30P TO L14-30R
3021250C	50' GENERATOR CORD: 30A 120V L14-30P TO L14-30R
5027825C	25' GENERATOR CORD: 50A 120/240V 14-50P TO 14-50R
5027850C	50' GENERATOR CORD: 50A 120/240V 14-50P TO 14-50R
30211625C	25' GENERATOR CORD: 30A 120V L14-30P TO (4X) 5-20R
30211650C	50' GENERATOR CORD: 30A 120V L14-30P TO (4X) 5-20R
30114A	GENERATOR PLUG ADAPTER: 30A 120V L14-30P TO TT-30R
50218A	GENERATOR PLUG ADAPTER: 50A 120/240V L14-30P TO 14-50RR
302116A	GENERATOR PLUG ADAPTER: 30A 120V L14-30P TO (4X) 5-20R
30154A	GENERATOR PLUG ADAPTER: 30A 120V L5-30P TO TT-30R
30136A	GENERATOR PLUG ADAPTER: 30A 120V TT-30P TO L5-30R
301514A	GENERATOR PLUG ADAPTER: 30A 120V L5-30P TO (3X) 5-20R
30194A	GENERATOR PLUG ADAPTER: 30A 120V 5-20P TO TT-30R
30196A	GENERATOR PLUG ADAPTER: 30A 120V 5-20P TO L5-30R
50158A	GENERATOR PLUG ADAPTER: 30A 120V L5-30P TO 14-50R
50138A	GENERATOR PLUG ADAPTER: 30A 120V TT-30P TO 14-50R

WGen5300s EXPLODED VIEW PART NO.

NO.	Code	DESCRIPTION
1	774057-116	FRAME
2	531318	ISOLATOR
3	90016	NUT M6
4	90018	NUTM8
5	90011	M8 NUT
6	91325	M6X12
7	95021	CONNECTING PIPE
8	91327	BOLT M6X12
9	520308	MUFFLER BRACKET
10	110027520002	ENGINE ASSY DH275E
11	714360	PANEL COMP
11.1	6022	IGNITION SWITCH
11.2	6041	VFT DIGITAL METER
11.3	6508	VOLTAGE-SELECTED SWITCH
11.4	6386	GROUND BOLT ASSEMBLY
11.5	6385/6413	L14-30 RECEPTACLE
11.6	6441-22	22A THERMAL PROTECTOR
11.7	6015/6414	TT-30R THE RV SOCKET
11.8	6441-30	30A THERMAL PROTECTOR
11.9	6441-20	20A THERMAL PROTECTOR
11.10	6032	5-20R SOCKET
12	542614-116	SHROULD, BATTERY
13	91344	BOLT M8X16
14	755537	ROTOR STATOR ASSEMBLY
14.1	599019	BRUSH ASSEMBLY
14.2	6188	TERMINAL BLOCK
15	532306	REAR BEARING CARRIER
16	96813	SMALL WHEEL WASHER
17	91721	BOLT M10X1.25X225
18	91619	BOLT M6X140
19	94440	CLIP,FUEL LINE M8
20	94413	HOSE CLAMP
21	91322	BOLT M5X12
22	534301	AVR
23	533302-221	ALTERNATOR COVER
24	96252	EXHAUST GASKET
25	94206	LOCK WASHER (SPRING)
26	705532	MUFFLER COMP
26.1	5946	SPARK ARRESTER
27	700271-116	FUEL TANK ASSEMBLY
27.1	518801	FUEL FILTER
27.2	6785	FUEL GAUGE
28	91307	M6X25
29	96801	FUEL TANK WASHER

NO.	Code	DESCRIPTION
30	544604	GROUNDING WIRE
31	544301	FRAME WIRE
32	94403	FUEL LINE CLIP
33	519406	FUEL TANK CAP
34	518202	FUEL SWITCH
35	96120	PAPER WASHER
36	530324-116	FUEL TANK BRACKET
37	94002	M6 WASHER
38	543601	CARBON CANISTER
39	525314-116	SUPPORT,FRAME
40	531115	RUBBER PAD
41	91333	M6X28
42	96815	FLAT WASHER
43	523308	WHEEL (WGEN3600)
44	524320	AXLE PIN
45	548301	COTTER PIN
46	527613	PLUG
47	527611	HANDLE FASTENER
48	526639-116	HANDLE ASSEMBLY
49	528609	RUBBER,HANDLE
50	91513	BOLT M5X175
51	90009	M5 NUT
52	94219	M5 WASHER
53	94204	M5 LOCK WASHER
54	539602	FAN GUARD
55	511008	BATTERY
56	91323	M5X16
57	512058	BATTERY CABLE KIT OPEN FRAME UNITS
58	95020	AIR LINE CARBON TO TANK
59	99010	SPARK PLUG TOOL WRENCH (LONG) 17MM
60	99504	FUNNEL
61	99025	WRENCH 10 & 13 MM ENDS
62	99616	OIL BOTTLE

WGen5300s ENGINE VIEW



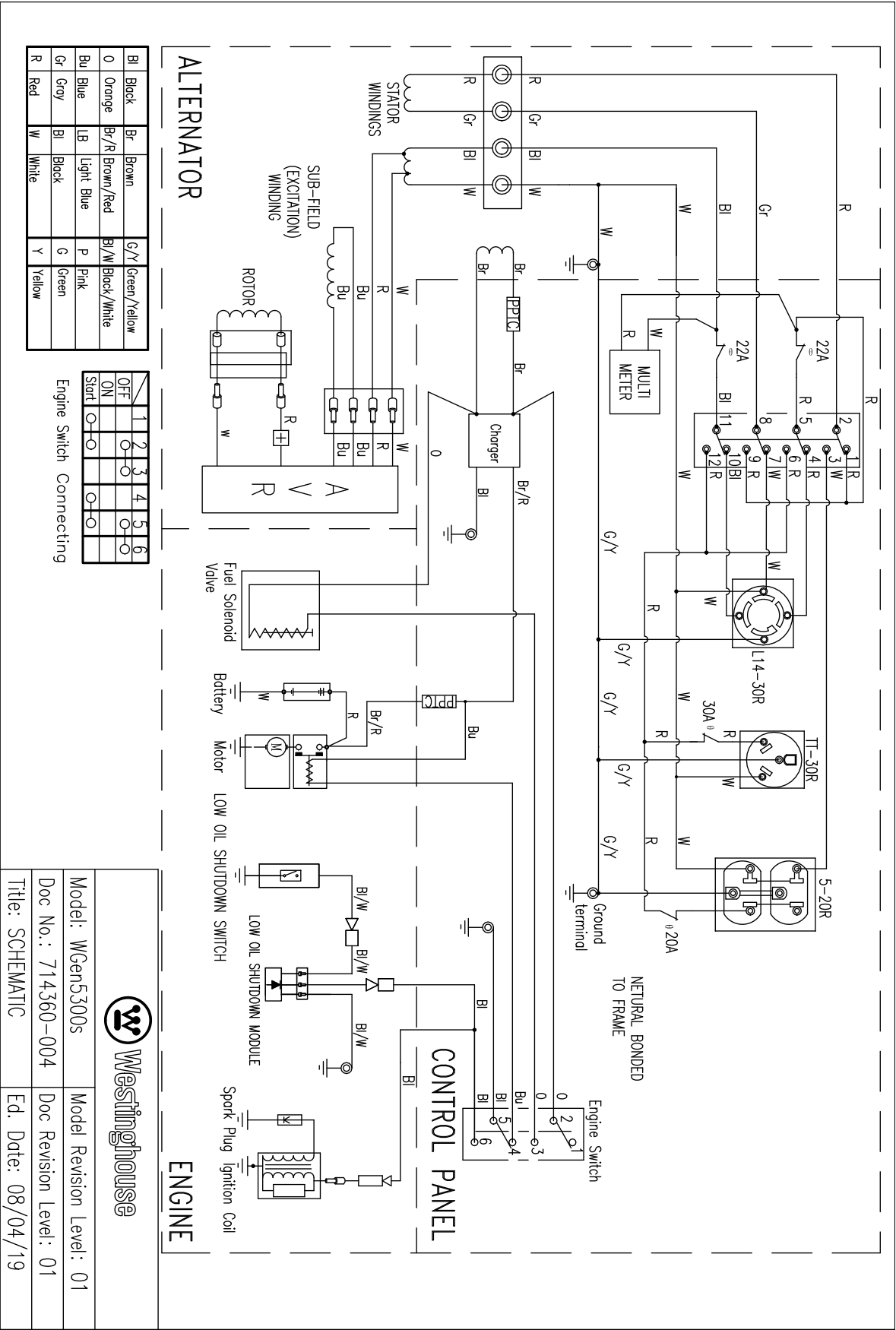
NO.	PART.	DESCRIPTION
1	400201	CRANKCASE
2	93509	CRANKCASE OIL SEAL
3	93520	SWING ROD OIL SEAL
4	403901	RACKING BAR
5	96804	SWINGING ROD GASKET
6	383902	RETAINING CLIP
7	91816	OIL DRAIN BOLT
8	94007	OIL DRAIN BOLT WASHER
9	245106	OIL SENSOR ASSEMBLY
10	91329	BOLT M6X16
11	401201	PISTON

WGen5300s ENGINE VIEW PART NO.

NO.	Code	DESCRIPTION
1	400202	THE CRANKSHAFT BOX BODY
2	93509	THE CRANKSHAFT OIL SEAL
3	93520	PENDULUM STEM SEAL
4	403901	SWINGING ROD
5	96804	SWINGING ROD WASHER
6	383902	CONTROL ARM CLIP
7	91816	OIL DRAIN BOLT
8	94007	OIL DRAIN BOLT WASHER
9	245106	OIL SENSOR
10	91329	BOLT M6X16
11	401201	THE PISTON
12	401601	PISTON RING ASSEMBLY
13	401501	CONNECTING ROD COMPONENT
14	405501	THE PISTON PIN
15	241301	PISTON PIN RETAINER
16	400301	THE CRANKSHAFT
17	402002	CAMSHAFT ASSEMBLY
18	240904	POSITIONING PIN OF CRANKCASE
19	96222	CRANKCASE GASKET
20	404301	CENTRIFUGAL GOVERNOR GEAR ASSEMBLY
21	400101	CRANKCASE COVER
22	401002	CYLINDER HEAD
23	401701	INLET VALVE
24	405901	THE EXHAUST VALVE
25	406001	VALVE SPRINGS
26	402101	ROCKER ARM
27	91818	ROCKER ARM FASTENING BOLT ASSEMBLY
28	402201	LIMIT PLATE ASSEMBLY
29	241806	VALVE SEAL
30	241817	VALVE-SPRING RETAINER
31	329930	VALVE LOCK CLAMP
32	241804	TOP CAP
33	91022	STUD BOLT
34	91007	STUD BOLT
35	406101	THE VALVE LIFTER
36	260901	CYLINDER HEAD LOCATING PIN
37	91347	COIL BOLT M8X30
38	96223	CYLINDER HEAD GASKET
39	91452	COIL BOLT M10X1.25X70
40	97108	SPARK PLUG
41	401901	THE VALVE PUSH ROD
42	407501	WIND DEFLECTOR
43	407601	UNDER THE COVER
44	91325	COIL BOLT M6X12
45	96225	HEADCOVER GASKET
46	401102	CYLINDER HEAD COVER INNER COVER

NO.	Code	DESCRIPTION
47	96226	CYLINDER HEAD COVER INNER COVER GASKET
48	401101	CYLINDER CRANIUM
49	92036	CROSS RECESS PAN HEAD SCREW
50	244508	START THE CUP
51	240413	FLYWHEEL COMPONENTS
52	404601	THE IMPELLER
53	90003	FLYWHEEL NUT M14*1.5
54	97514	IGNITER
55	91331	BOLT M6X25
56	404707-221A	RECOIL ASSEMBLY
56.1	5942-221	RECOIL STARTER
56.2	5943	RECOIL HANDLE
57	94403	FUEL LINE CLIP
58	404001	CONTROL ARM
59	91822	BOLT
60	90016	NUT M6
61	96235	INTAKE GASKET
62	402301	CARBURETOR CONNECTION BLOCK
63	402801-295	CARBURETOR ASSEMBLY
64	96224	CARBURETOR GASKET
65	94226	STEEL PAD
66	402901	AIR CLEANER ASSEMBLY
66.1	5941	AIR CLEANER ELEMENT
67	402701	THROTTLE LEVER
68	404201	THROTTLE SPRING
69	95603	EXHAUST PIPE
70	240801	Q-SHAPE CLIP
71	245104	OIL PROTECTOR
72	245601-295	OIL GAUGE ASSEMBLY
73	404101	SPEED REGULATING SPRING
74	407701	SPEED ADJUSTMENT BRACKET
75	95407	FUEL PIPE
76	93012	BEARING
77	94435	EXHAUST PIPE CLAMP
78	260801	Q -SHAPE CLIP
79	97442	STARTING MOTOR ASSEMBLY
80	240910	LOCATING PIN

WGen5300s SCHEMATIC





WestinghouseOutdoorPower.com

Service Hotline: (855) 944-3571

**777 Manor Park Drive
Columbus, OH 43228**

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