



PORTABLE GENERATORS

FOR MODELS:

*WGen**2000**, WGen**3600**, WGen**5500**
WGen**6500st**, WGen**7500**, WGen**8300st***

California

Proposition 65 Warning

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

California

Proposition 65 Warning

Certain components in this product and its related accessories contain chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

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.

WGen TECHNICAL SPECIFICATIONS

Model Number	Running Watts	Peak Watts	Fuel Tank Size (L/G)	Rated Speed (RPM)	Ignition Type	Spark plug	Engine Disp (cc)	Stroke X Bore	Oil Capacity (L)	Oil Type	THD
WGen2000	2000	2500	15/4.0	3600	TCI	F7TC	212	55X70	0.60	10W30	<23%
WGen3600	3600	4650	15/4.0	3600	TCI	F7TC	212	55X70	0.60	10W30	<23%
WGen5500	5500	6850	25/6.6	3600	TCI	F7TC	420	66X90	1.10	10W30	<23%
WGen7500	7500	9000	25/6.6	3600	TCI	F7TC	420	66X90	1.10	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.

HAVE QUESTIONS?

Email us at service@wpowerreq.com
or call 1-855-944-3571

FOR YOUR RECORDS:

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

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

MWE Investments LLC

777 Manor Park Drive

Columbus, Ohio 43228

2. Registering your product Online at www.westinghouseportablepower.com/register-your-product/

To register your generator you will need to locate the following information:

 Westinghouse MWE Investments LLC Columbus Ohio 43228 USA MWE Investments LLC Columbus Ohio 43228 Etats-Unis	Model Modèle Part No. Numéro de pièce	wGEN5500 05501	Power (Rated) Puissance (Nom.)	5500W	Insul Class Classe Isol.	H	Serial No./No. De Série 	 CSA Master Contract Number : 268850 Numéro de contrat principale de CSA 268850
	AC Voltage Tension CA	120/240V	Power (Peak) Puissance (Pointe)	6850W	Max Amb Temp Temp. Amb. Max	40°C (104°F)		
	AC Current Intensité CA	45.8/22.9 A	Frequency Fréquence	60Hz	Duty Service	S1		
	RPM TR/MIN	3600rpm	Designed in Columbus, Ohio USA Conçu à Columbus, Ohio, États-Unis		Made in China/ Fabriqué en Chine			

Sample from WGen5500

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

Límpielo 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 sumérjalo en aceite de motor limpio hasta saturarse, exprima el aceite de sobra.

FUEL



FOR TECHNICAL ASSISTANCE or SERVICE CALL TOLL FREE

Para la ayuda técnica y servicio llamada

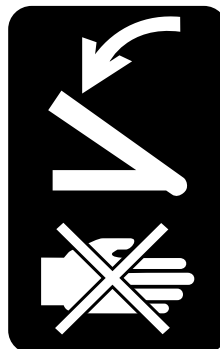
1-855-944-3571

3
YEAR
LIMITED
WARRANTY

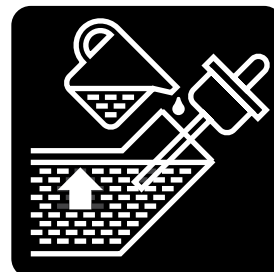
2



3



4



5

⚠ 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 permitir 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. Generadores presentan un riesgo de choque especialmente en caso de operar en condiciones húmedas o mojadas. Mantenga el generador y se almacena 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.

SAFETY

SAFETY LABELS AND DECALS

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Westinghouse
MWE Investments LLC
Columbus Ohio 43228 USA
MWE Investments LLC
Columbus Ohio 43228 États-Unis

Model Modèle	wGEN5500	Power (Rated) Puissance (Nom.)	5500W	Insul Class Classe d'isol.	H
Part No. Numéro de pièce	05501	Power (Peak) Puissance (Pointe)	6850W	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	45.8/22.9 A	RPM TR/MIN	3600rpm	Designed in Columbus, Ohio, USA Conçu à Columbus, Ohio, États-Unis	

Sample from WGen5500

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⚠ WARNING
HOT SURFACES

⚠ ADVERTENCIA
SUPERFICIES CALIENTES

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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.
RAVITAILLEZ TOUJOURS L'UNITÉ DANS UN ENDROIT BIEN AÉRÉ.
NETTOYEZ TOUJOURS LES DÉVERSEMENTS D'HUILE.
LAISSEZ TOUJOURS L'UNITÉ REFRROIDIR AVANT DE LA RAVITAILLER EN CARBURANT.

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⚠ 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.

⚠ PELIGRO
USAR EL GENERADOR EN INTERIORES **LO PUEDE MATAR EN MINUTOS**. EL ESCAPE DEL GENERADOR CONTIENE MONÓXIDO DE CARBONO. ESTE GAS ES UN VENENO QUE NO SE PUEDE VER NI OLER.

NUNCA USE EL GENERADOR DENTRO DEL HOGAR O EL GARAJE, AÚN SI LAS PUERTAS Y VENTANAS ESTÁN ABIERTAS. SOLO USELO EN EXTERIORES Y LEJOS DE VENTILACIONES, PUERTAS Y VENTANAS ABIERTAS.

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⚠ WARNING/AVERTISSEMENT

TOXIC FUMES HAZARD. Running engines gives off carbon monoxide, an odourless 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.

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WGen5500
WGen3600
WGen2000

WGen7500
WGen6500st
WGen8300st

EZ Start Instructions

START **BATTERY DISCONNECT** **MANUAL START** **ELECTRIC START** **SHUT DOWN** **STOP**

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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.

WHEEL KIT ACCESSORIES BOX

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

WGen2000 Components:

Tool Bag (1)
Spark Plug Socket Wrench (1)
0.6 Liter Bottle of SAE 10W30 Oil (1)
Oil Funnel (1)

WGen3600 Components:

Wheels (2)
Tool Bag (1)
Spark Plug Socket Wrench (1)
0.6 Liter Bottle of SAE 10W30 Oil (1)
Mounting Foot (2)
Oil Funnel (1)

WGen5500, WGen7500, WGen6500st & WGen8300st Components:

Wheels (2)
Tool Bag (1)
Spark Plug Socket Wrench (1)
1.1 Liter Bottle of SAE 10W30 Oil (1)
Mounting Foot (2)
Oil Funnel (1)

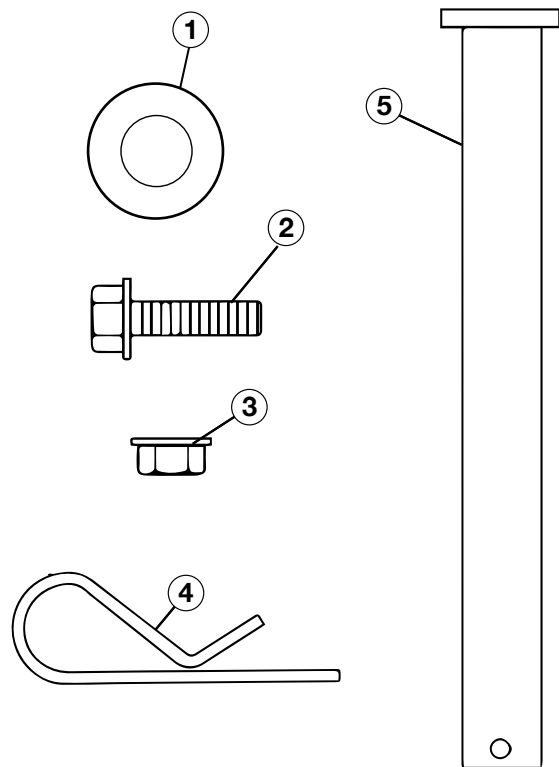


Figure 1 -Wheel and Feet Kit Hardware

1. Washer (2 used)
2. Flange Bolt M8 x16mm (4 used)
3. Locking Flange Nut M8 (4 used)
4. Hairpin Cotter Pin (2 used)
5. Wheel Axle Pin
WGen3600: 16 mm x 95mm (2 used)
WGen5500-8300 16 mm x 100mm (2used)

ASSEMBLY

INSTALLING WHEELS AND FEET (NOT APPLICABLE TO WGEN2000)



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.

Tools Required - tool bag (included)

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 its side as shown in Figure 2 (engine should be on the bottom).



Figure 2



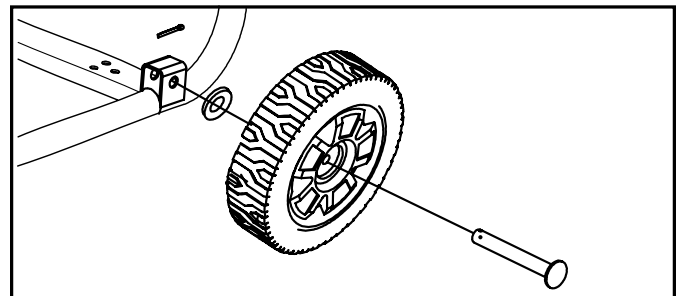
Figure 3 - Assemble Mounting Feet to Frame

3. Install the mounting foot to the frame using M8 flange bolts and nuts.

- 1 - Mounting Feet
- 2 - Flange Bolts M8
- 3 - Locking Flange M8 Nut

INSTALLING WHEELS TO FRAME

1. Insert axle pin through washer and wheel.



2. Install the wheel with axle pin through the axle bracket on the frame. The eye of the bolt should be facing toward the inside of the generator.

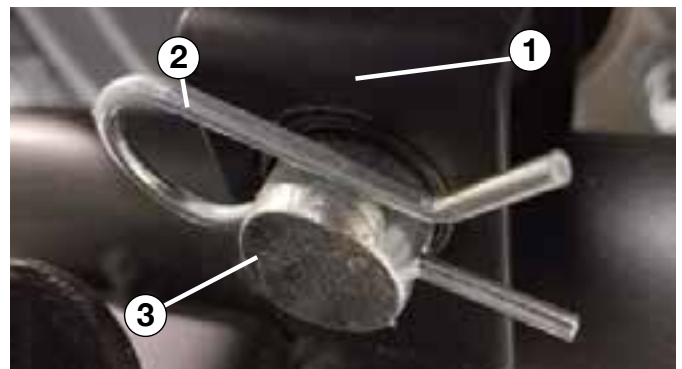


Figure 4 - Assemble Wheel to Frame

3. Install the hairpin cotter through the axle pin to lock it in place.

- 1 - Axle Bracket
- 2 - Hairpin Clip
- 3 - Axle Pin

4. Repeat previous steps on other wheel.

ASSEMBLY

INSTALLING THE BATTERY (ELECTRIC START GENERATORS ONLY)

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.

NOTE: THE GENERATOR COMES EQUIPPED WITH THE POSITIVE BATTERY CABLE (RED BOOT) ALREADY ATTACHED.

1. Verify the positive (+) battery cable (red boot) is securely tightened to the positive (+) battery post. Make sure boot is over battery post.
2. Carefully remove the protective wrapping around the lug of the negative (-) battery cable (black boot).
3. Locate negative (-) cable attached to alternator cable, remove tie and route to the negative (-) battery post. See figure 5 below for location of negative (-) cable.



Figure 5 - (1) Negative Cable

4. Pull back the black boot and securely attach the negative (-) battery cable (black boot) to the negative (-) battery post as shown in Figure 15. Replace the black boot so it protects the cable lug and battery post.



Figure 6 - Attaching the Negative (-) Battery Wire (black)

- 1 - Positive (+) Battery Cable (Red)
- 2 - Negative (-) Battery Cable (Black)

NOTE: The electric start generator is equipped with a battery charging feature. Once the engine is running, a small charge is supplied to the battery via the battery cables and will slowly recharge the battery.

FEATURES

BASIC GENERATOR FEATURES



- ① **Engine Control Switch:** Allows fuel to flow to engine and energizes the ignition system.
- ② **Push Button Electric Start:** Starts and stops the engine. Only on electric start models.
- ③ **Fuel Cap:** Close until clicking sound is heard.
- ④ **Battery Disconnect:** Stops engine and disconnects battery for storage. Only on electric start models.
- ⑤ **Control Panel:** Contains the circuit breakers and outlets
- ⑥ **Battery:** For electric start models only
- ⑦ **Oil Fill Plug/Dipstick:** Must be removed to add and check oil.

- ⑧ **Oil Drain Plug:** Must be removed to drain engine oil
- ⑨ **Never Flat Wheels:** Not available with WGen2000
- ⑩ **Air Cleaner Cover:** Must remove to service the air cleaner.
- ⑪ **Fuel Shut off Valve:** Controls the flow of fuel to the engine.
- ⑫ **Choke Lever:** Must be put in the ON position to start the engine and returned to the OFF position once the engine is running. (Not included on WGen7500)

FEATURES

BASIC GENERATOR FEATURES



- ① **Fuel Gauge:** Indicates fuel level.
- ② **Spark Plug Boot (Wire):** Must be removed when servicing the engine or the spark plug.
- ③ **CARB Canister:** Required for models sold into and used in California.
- ④ **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.

OPERATION

CONTROL PANEL FEATURES



- ① **Engine Control Switch (RUN/STOP for Manual Start Units):**
 - **RUN** - In the RUN position, the switch allows the generator to be started (for manual start models).
 - **STOP** - In the STOP position, the switch stops the engine.
- ② **Main Circuit Breaker:** The main circuit breaker controls total output of all outlets to protect the generator.
- ③ **120-Volt 30 Amp TT-30 Outlet:** Travel Trailer outlet can supply a maximum of 30 amps and 120 volts.
- ④ **120-Volt, 30 - Amp Twistlock Outlet (L5-30R):** Outlet can supply 120V output.
- ⑤ **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.
- ⑥ **20-Amp Circuit Breakers:** This circuit breaker limits the current that can be delivered through the 120-volt duplex outlets to 20amps.
- ⑦ **Ground Terminal:** The ground terminal is used to ground the generator.

OPERATION

CONTROL PANEL FEATURES



Figure 8 - Electric Start Control Panel Features

- ① **One Push Start Button (for One Push Start Units):**
 - Push once to automatically start the engine.
 - Green light shows when unit is on.
 - Push again to stop the engine.
- ② **Battery Disconnect:** Push anytime to stop the engine. When pressed it prevents the unit from drawing power from the battery. Twist to unlock.
- ③ **Hour Meter:** Displays how many hours the generator has been run when under load.
- ④ **Main Circuit Breaker:** The main circuit breaker controls total output of all outlets to protect the generator.
- ⑤ **120/240-Volt, 30-Amp Twist Lock Outlet (NEMA L14-30R):** Outlet can supply either 120V or 240V output.
- ⑥ **120-Volt, 20-Amp Duplex GFCI 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 **20-Amp Circuit Breakers:** Each circuit breaker limits the current that can be delivered through the 120-volt duplex outlets to 20amps.
- ⑧ **Battery Charge Port:** Used in conjunction with the ATS when the generator is in standby mode to charge the battery (battery charger not included).
- ⑨ **Battery Indicator Light:** When light is illuminated, the battery is connected and providing power to the electronics.
- ⑩ **ATS Outlet:** Connects the Automatic Switch to the control panel (ATS not included).
- ⑪ **Ground Terminal:** The ground terminal is used to ground the generator.

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 6 feet (1.8 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.

Floating Neutral (WGen2000 & WGen3600: The generator (stator winding) is isolated from the frame and from the AC receptacle ground pin.

Neutral Bonded (WGen5500, WGen7500, WGen6500st and WGen8300st): 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.

OPERATION

POWERCORD

Using Extension Cords

Westinghouse Portable Power 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.

The WCG25 power cord is connected to the generator at the 120/240 plug. 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.



OPERATION

TRANSFER SWITCH CONNECTIONS

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 household GFCI circuits. This is done by removing the jumper wire that connects the alternator ground to the alternator neutral.

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

If your generator is equipped with GFCI receptacles, removing the bonded neutral may not allow proper operation of the GFCI receptacles. Keep the jumper wire with the owner's manual in case it is needed for future use when not connected to a transfer switch.

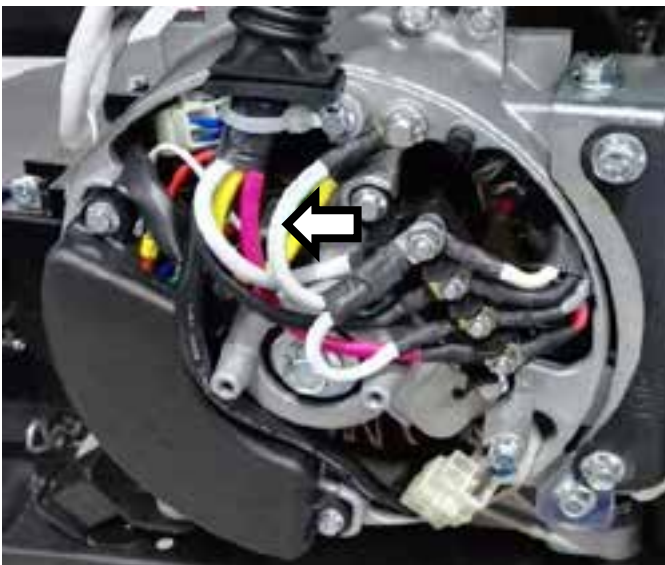


Figure 11

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* on page 24 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 12).
7. Install the fuel cap by rotating clockwise until you hear a click, indicating the cap is completely installed.



Figure 12 - 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* on page 24.
- The generator is situated in a proper location (Location Selection on page 16).
- The generator is on a dry surface (*Weather and Dry Surface* on page 16).
- All loads are disconnected from the generator (*No Connected Loads* on page 16).
- The generator is properly grounded the Generator (page 16).

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.

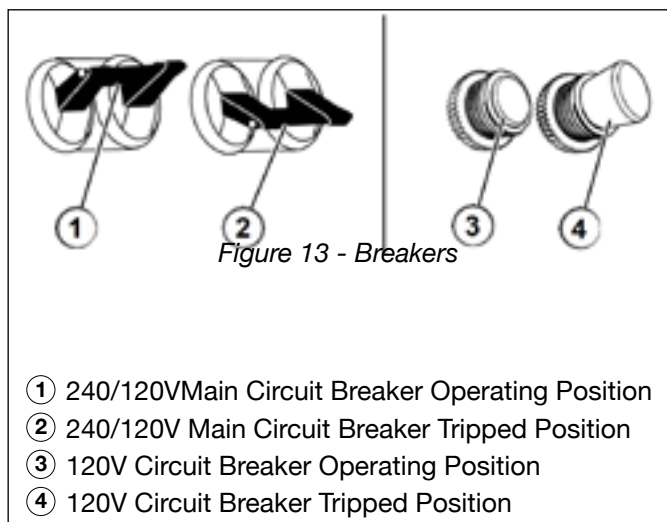
The owner of the generator is responsible to ensure the proper oil level is maintained during the operation of the generator. Failure to maintain the proper oil level can result in engine damage.

OPERATION

MANUALLY STARTING A GENERATOR

NOTE: This procedure can also be used on an electric start generator.

1. Check oil levels (see *Adding Engine Oil* page 24)
2. Make sure the circuit breakers are properly set (see Figure 13 below).



2. Move the fuel shut off valve to the ON position (see Figure 14 below).



Figure 14 - Fuel Shut Off - ON

3. Move the choke lever to the ON position (see Figure 15 below).

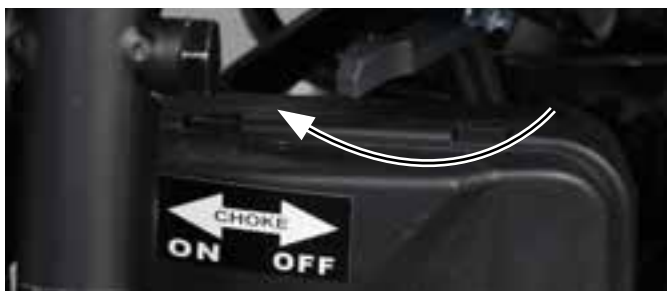


Figure 15 - Choke - ON

4. Push the engine control switch into the RUN position (see Figure 16 below).



Figure 16 - Engine Control Switch - RUN

5. 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 (see Figure 20).



Figure 17 - Engine Recoil Handle - PULL

6. As the engine starts and stabilizes, gradually move the choke lever back to the OFF position. (Figure 18)



Figure 18 - Choke - OFF

OPERATION

STARTING ONE PUSH START GENERATOR

1. Verify the battery is properly installed and both battery cables are attached (see *Installing the Battery (Electric Start Generators Only)* on page 11).
2. Make sure the circuit breakers are properly set (see Figure 13 on page 20).
3. Move the fuel shutoff valve to the ON position (see Figure 19 below).



Figure 19 - Fuel Shut Off - ON

4. Rotate the red Battery Disconnect button clockwise until the button pops out (see 1 below) .



Figure 21 - Battery Disconnect - Twist to unlock

5. Push and hold the engine start push button for 1 second and release (see Figure 22).
- The engine will automatically set the choke and begin the start sequence.
 - If the engine has started successfully the light indicator on the engine start button will turn green.
 - If the engine fails to start, the generator controls will attempt to start the engine two more times for a total of three attempts.
 - If the third attempt fails, the light on the engine start button will turn red.
 - If the engine has failed to start after three attempts the engine start button can be pushed again to begin the automatic start sequence.
 - The red engine stop button can be pushed at any time during the automatic start sequence to abort the engine start attempt.

NOTE: If the cranking speed drops after each unsuccessful attempt, then the battery may not be adequately charged. You can alternatively start the generator using the recoil start as instructed in Manually Starting a Generator on page 20.



Figure 22 - Push Button Start

OPERATION

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 **STOP** or if you plan to store the generator after use, turn the fuel shutoff valve to the **OFF** position and allow the fuel to be consumed from the carburetor.
4. For Push Button Start models if you plan to store the generator after use push the Battery Disconnect button in so it stops drawing power from the battery.

During an Emergency

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



Manual Start - Move switch to STOP



Push Button Start - Push in start/stop button to STOP or push in Battery Disconnect button if you plan to store generator to prevent draining the battery

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.

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

MAINTENANCE

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 20 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

TABLE 2: MAINTENANCE SCHEDULE - AUTHORIZED WESTINGHOUSE SERVICE DEALER PERFORMED

Maintenance Item	Before Every Use	After First 20 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

MAINTENANCE

ENGINE OIL MAINTENANCE

Engine Oil Specification

1. Only use the engine oil specified in Figure 25.
2. Only use 4-stroke/cycle engine oil. **NEVER USE 2-STROKE/CYCLE OIL.** Synthetic oil is an acceptable substitute for conventional oil.

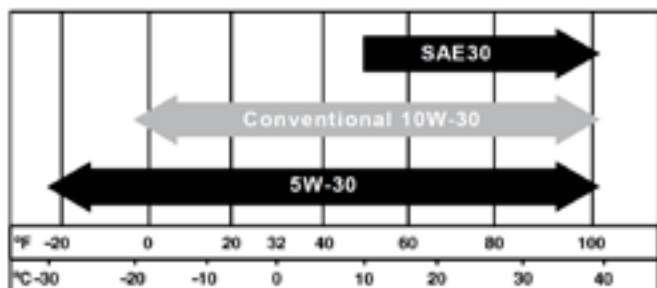


Figure 25 - Recommended Oil

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 26 below).



Figure 26 - 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 27).
 - **Low Oil** – Oil is below the L line on the oil fill plug/ dipstick.

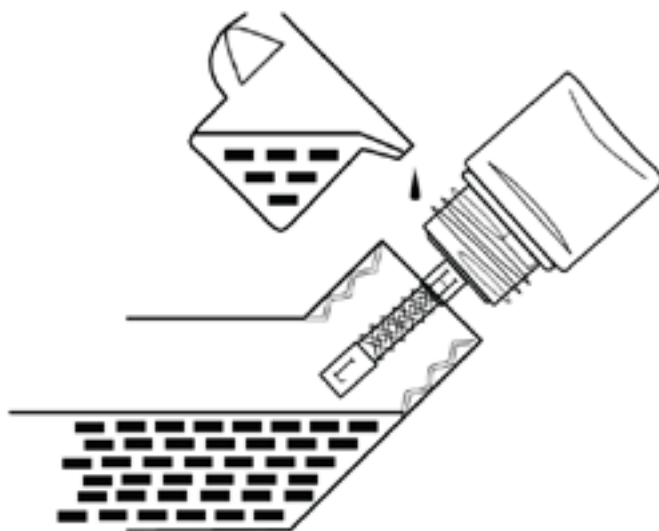


Figure 27 - Checking Oil Level

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 25.
7. Using the supplied funnel and tube, 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. See Figure 27.

MAINTENANCE

CHANGING ENGINE OIL

1. Stop the engine.
2. Let engine sit and cool for several minutes (allow crankcase pressure to equalize).
3. Place oil pan (or suitable container) under the oil drain plug (see Figure 28).
4. With a damp rag, thoroughly clean around the oil drain plug.
5. Remove the oil drain plug (see Figure 28). Once removed, place the oil drain plug on a clean surface.



Figure 28 - Oil Drain Plug

6. Allow oil to completely drain.
7. Replace oil drain plug.
8. Fill crankcase with oil following the steps outlined in *Adding Engine Oil* on page 24.

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 top and bottom of the air filter cover (Figure 29) or turn the small knob on the bottom (Figure 30) and remove the air filter cover.



Figure 29 - Some units have clips that secure air filter



Figure 30 - Some units have a knob at the bottom which secures air filter

4. Remove the black coarse air filters (see Figure 30).



Figure 30 - Remove Coarse Air Filters

5. Wash the foam air filter elements by submerging the elements in a solution of household detergent soap and warm water. Slowly squeeze the foam to thoroughly clean.

MAINTENANCE

Cleaning the Air Filter - Continued from Page 25

NOTICE

NEVER twist or tear the foam air filter element during cleaning or drying. Only apply slow but firm squeezing action.

6. Rinse in clean water by submerging the air filter elements in fresh water and applying a slow squeezing action

NOTICE

Never dispose of soap cleaning solution used to clean the air filter by dumping the solution 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.

7. Dispose of used soap cleaning solution properly.
8. Dry the air filter elements by again applying a slow firm squeezing action.
9. Once the air filters are dry, coat the air filters with clean engine oil (see Figure 31 below).

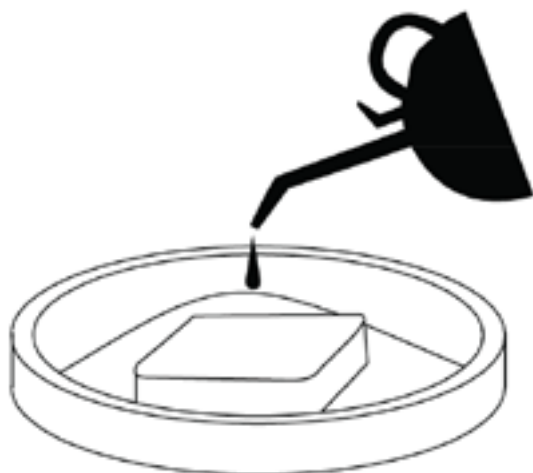


Figure 31

10. Squeeze the filters to remove any excess oil (see Figure 32 below).



Figure 32

11. Install the filters back into the unit. If there are two filters make sure the gray (fine) air filter goes in first followed by the black (coarse) air filter on the outside.
12. Install the air filter cover and secure the air filter assemble.

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 33).

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.

MAINTENANCE



Figure 33

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 (see Figure 34 below).



Figure 34 – Removing Spark Plug

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]) (see Figure 35).

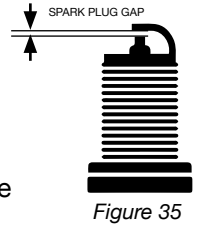


Figure 35

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.

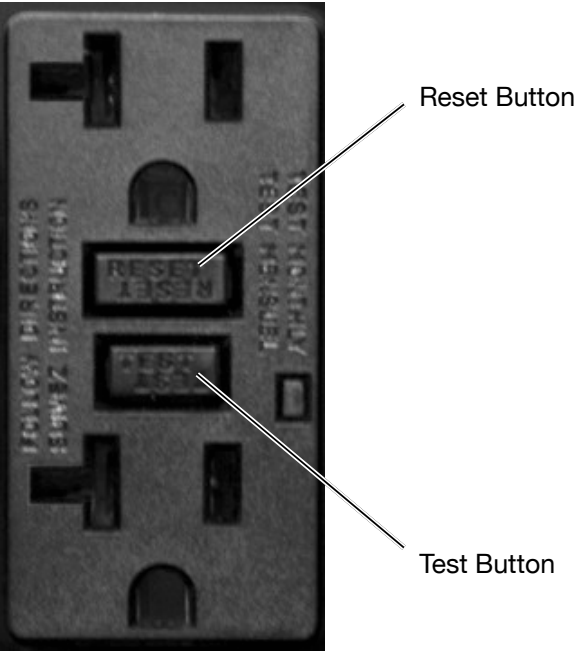
Recommended Spark Plug Replacement:

AC Delco: 4EXLS
Autolite: 52
Champion: N9YC
Bosch: W7DC
Torch: F7TC

MAINTENANCE

TESTING GFCI OUTLETS

- 1. Start the generator and allow it to warm up.
- 2. Press the test button on the GFCI outlet.



- 3. The reset button should pop out and there will be no power from the outlets. If the reset button does not pop out, the GFCI outlet is not working correctly and must be repaired before the generator can be operated.
- 4. Press the reset button to restore power to the outlet.

BATTERY SERVICE

To ensure the battery remains charged, the generator should be started every 2 to 3 months and run for a minimum of 15 minutes. If the generator is stored more than a year without running, a battery charger may be needed to recharge the battery.

Battery Replacement

- 1. Remove the spark plug wire from spark plug.
- 2. Loosen and remove the bolt on the battery hold down plate and swing the plate out (see Figure 36).
- 3. Tip the battery forward slightly to access battery cables.



Figure 36 - (1) Bolt, (2) Battery Hold Down Plate

- 4. Disconnect the black negative (-) battery cable from the battery first.
- 5. Disconnect the red positive (+) battery cable second and remove the battery.

NOTICE

Dispose of the used battery properly according to the guidelines established by your local or state government.

- 6. Install the new battery into the generator frame.
- 7. Connect the red positive (+) battery cable to the battery first.
- 8. Connect the black negative (-) battery cable to the battery second.
- 9. Install the battery hold-down plate using the nuts removed in step 2.
- 10. Install the spark plug wire onto spark plug.

See below for the battery specification when replacing the battery.

Westinghouse Part No.	100557
After Market Battery Model	YT9A
Volts	12
Amp Hr	9
Dimensions	5 5/16in by 3in by 5 3/8in

MAINTENANCE

CLEANING THE GENERATOR

It is important to inspect and clean the generator before 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 (see Figure 38).



Figure 38 - Engine Air Inlet and Outlet Ports

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 (see Figure 39).



Figure 39 - Engine 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 (see Figure 40 and Figure 41).



Figure 40



Figure 41

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

CLEANING THE SPARK ARRESTOR

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

1. Stop the generator and let it cool for several minutes if running.
2. Move the generator to a flat, level surface.
3. Remove heat shield around the spark arrestor.
4. Using a flat head screw driver remove the screw holding in the spark arrestor.
5. Using a wire brush, remove any dirt and debris that may have collected on the spark arrestor screen.
6. If the spark arrestor screen shows signs of wear (rips, tears or large openings in the screen), replace the spark arrestor screen.
7. Place spark arrester back over muffler tip and secure screw.

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.
- For electric start units make sure the Battery Disconnect button is pressed in so the generator does not draw power from battery.

2.
- Clean the generator as outlined in Cleaning the Generator on page 29.
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.
- Change the oil (see Changing Engine Oil on page 25).
7.
- Remove the spark plug (see Spark Plug Maintenance on page 26) and place about 1 tablespoon of oil in the spark plug opening. While placing a clean rag over the spark plug opening, slowly pull there 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.
8.
- Replace the spark plug (see Spark Plug Maintenance on page 26).
9.
- 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. GFCI outlet is tripped	5. Press the reset button on the GFCI outlet (see page 28).
	6. If trying 1-5 above does not solve the problem, the cause might be the generator has a fault.	6. Take the generator to your nearest authorized service dealer.

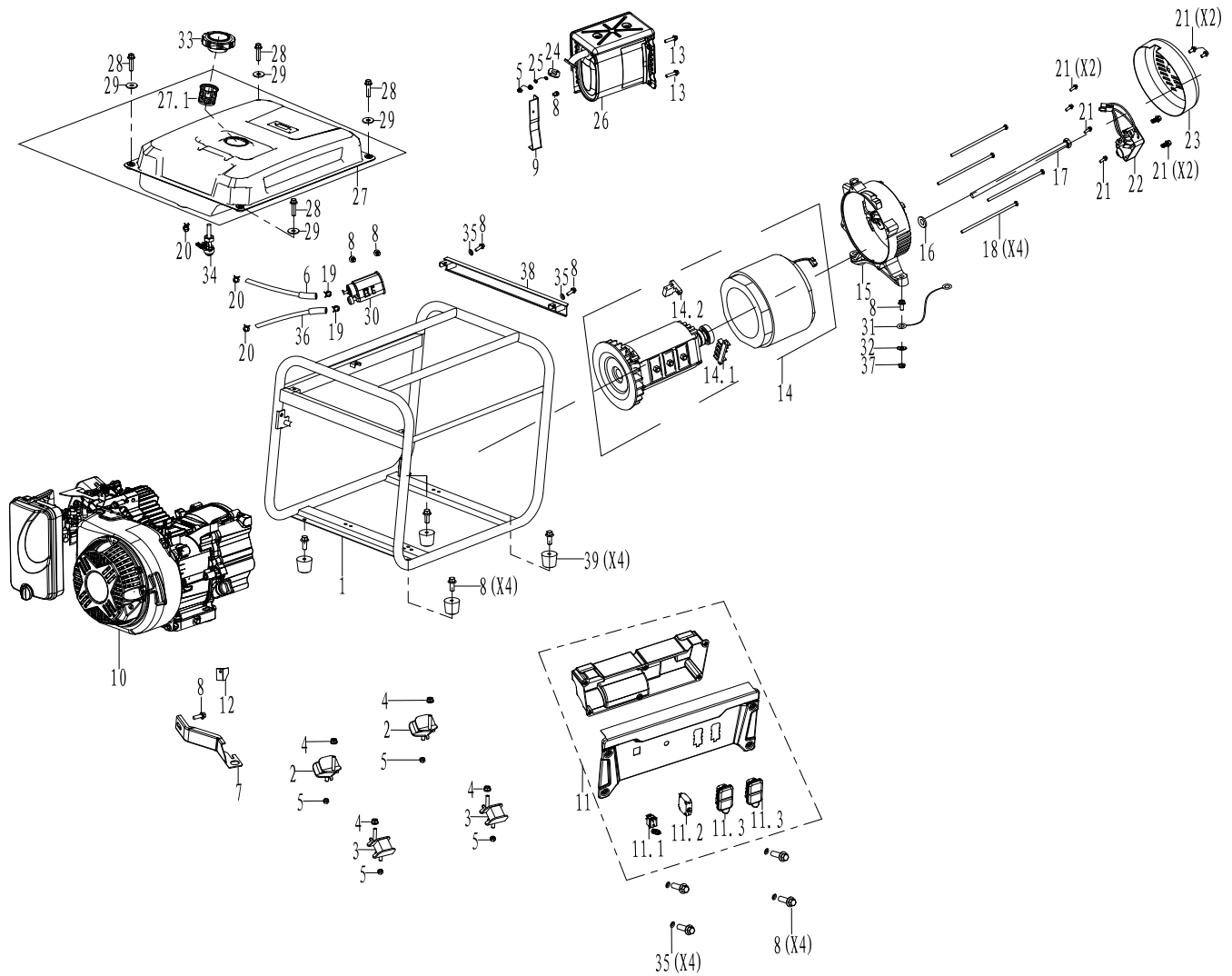
TROUBLESHOOTING

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 (see Figure 14 page 20).
	2. Generator is out of gasoline.	2. Add gasoline to the generator (see page 19).
	3. Fuel flow is obstructed.	3. Inspect and clean fuel delivery passages.
	4. Unit is over choked.	4. Move the choke lever halfway between the ON and OFF positions.
	5. Starting battery may have insufficient charge	5. On electric start models only. Check battery output and charge battery as necessary.
	6. Dirty air filter	6. Check and clean the air filter (see page 25).
	7. Low oil level shut down switch is preventing the unit from starting.	7. Check oil level and add oil if necessary (see page 24).
	8. Spark plug boot is not fully engaged with the spark plug tip.	8. Firmly push down on the spark plug boot to ensure the boot is fully engaged
	9. Spark plug is faulty.	9. Remove and check the spark plug. Replace if faulty (see page 27).
	10. Dirty/plugged spark arrestor	10. Check and clean the spark arrestor (see page 29).
	11. Stale fuel	11. Drain fuel and replace with fresh fuel (see page 19).
	12. If trying 1-11 above does not solve the problem, the cause might be the generator has a fault.	12. Take the generator to your nearest authorized service dealer.

PROBLEM	POTENTIAL CAUSE	SOLUTION
Generator suddenly stops running.	1. Generator is out of fuel.	1. Check fuel level (see page 19). Add fuel if necessary.
	2. The low oil shut down switch has stopped the engine.	2. Check oil level and add oil if necessary (see page 24).
	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. Choke was left in the ON position.	1. Move choke to the OFF position
	2. Dirty air filter	2. Clean the air filter (see pages 26-29).
	3. Applied loads maybe cycling on and off	3. As applied loads cycle, changes in engine speed may occur; this is a normal condition.
	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.

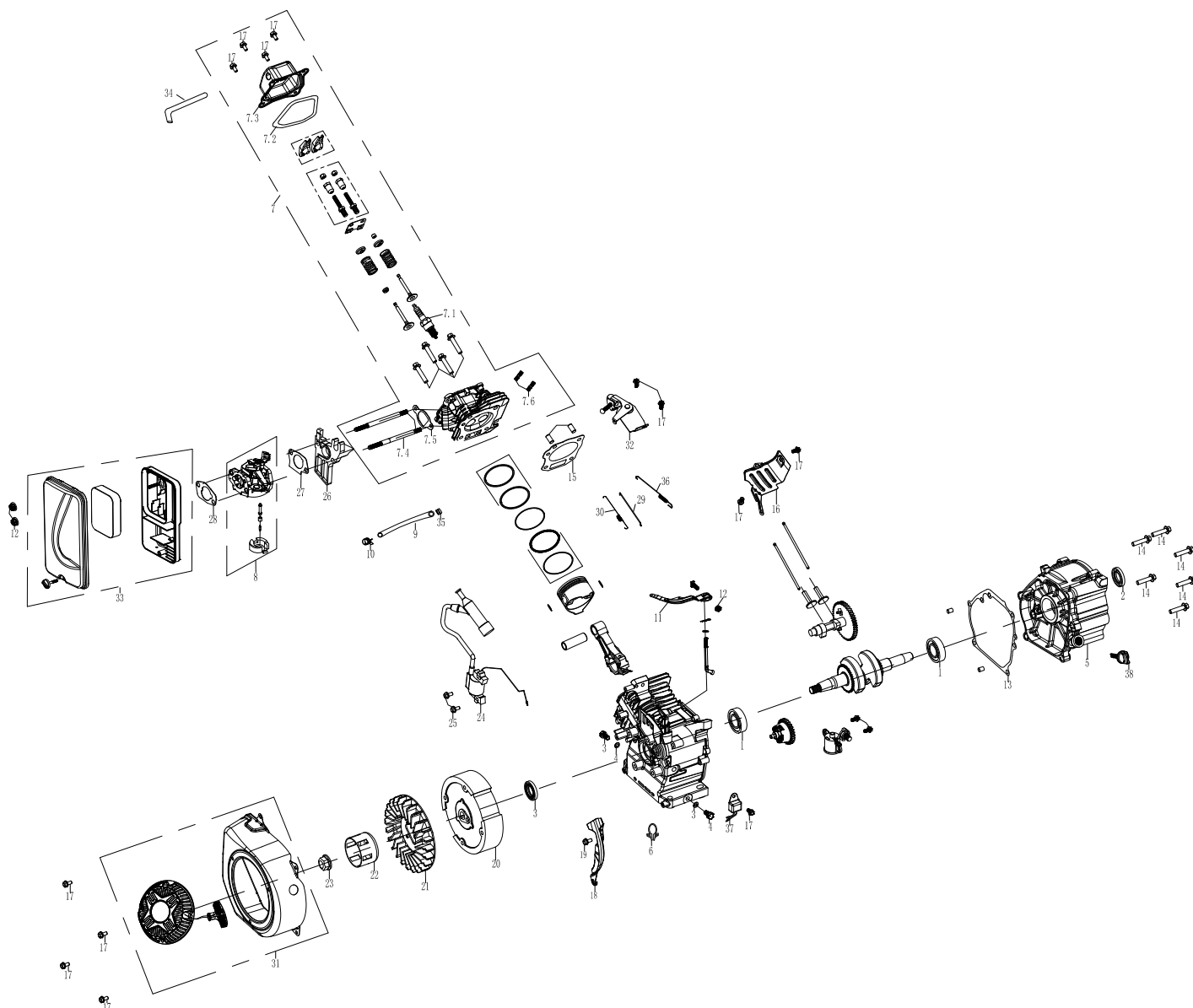
WGen2000 EXPLODED VIEW



NO.	Part	Description	Qty
1	100550	Frame	1
2	100560	Damper	2
3	100559	Damper	2
4	100520	M8 Nut	4
5	180524	M8 Nut	6
6	150519	Hose	1
7	180569	Bracket	1
8	120505	M6X12	15
9	110520	Bracket	1
10	180565	Engine Assy	1
11	130520	Control Panel Assy	1
11.1	130502	Start Switch	1
11.2	130518	Circuit Breaker 1P18A	1
11.3	130512	R5-20 Receptacle	2
12	180568	Dust Plate	1
13	100516	M8X16	2
14	120538	Alternator Assy	1
14.1	120526	Terminal Block	1
14.2	120525	Brush Assy	1
15	120527	Rear Bearing Carrier	1
16	120532	Washer	1
17	100542	M8X185	1
18	120534	M6X130	4
19	150518	Hose Clamp	2
20	140508	Hose Clamp	3
21	120537	M5X12	8

22	120529	AVR	1
23	120530	Alternator Cover	1
24	110519	Gasket	1
25	110502	Spring Washer	2
26	110521	Muffler Assy	1
27	150521	Fuel Tank	1
27.1	150517	Fuel Strainer	1
28	120536	M6X25	4
29	150501	M6 Washer	4
30	150520	Carbon Canister	1
31	120528	Ground Strap	1
32	120533	M6 Washer	1
33	150505	Fuel Tank Cap	1
34	150502	Fuel Valve	1
35	100547	M6 Washer	6
36	150522	Hose	1
37	100548	M6 Nut	1
38	100530	Bracket	1
39	100549	Rubber Foot	4

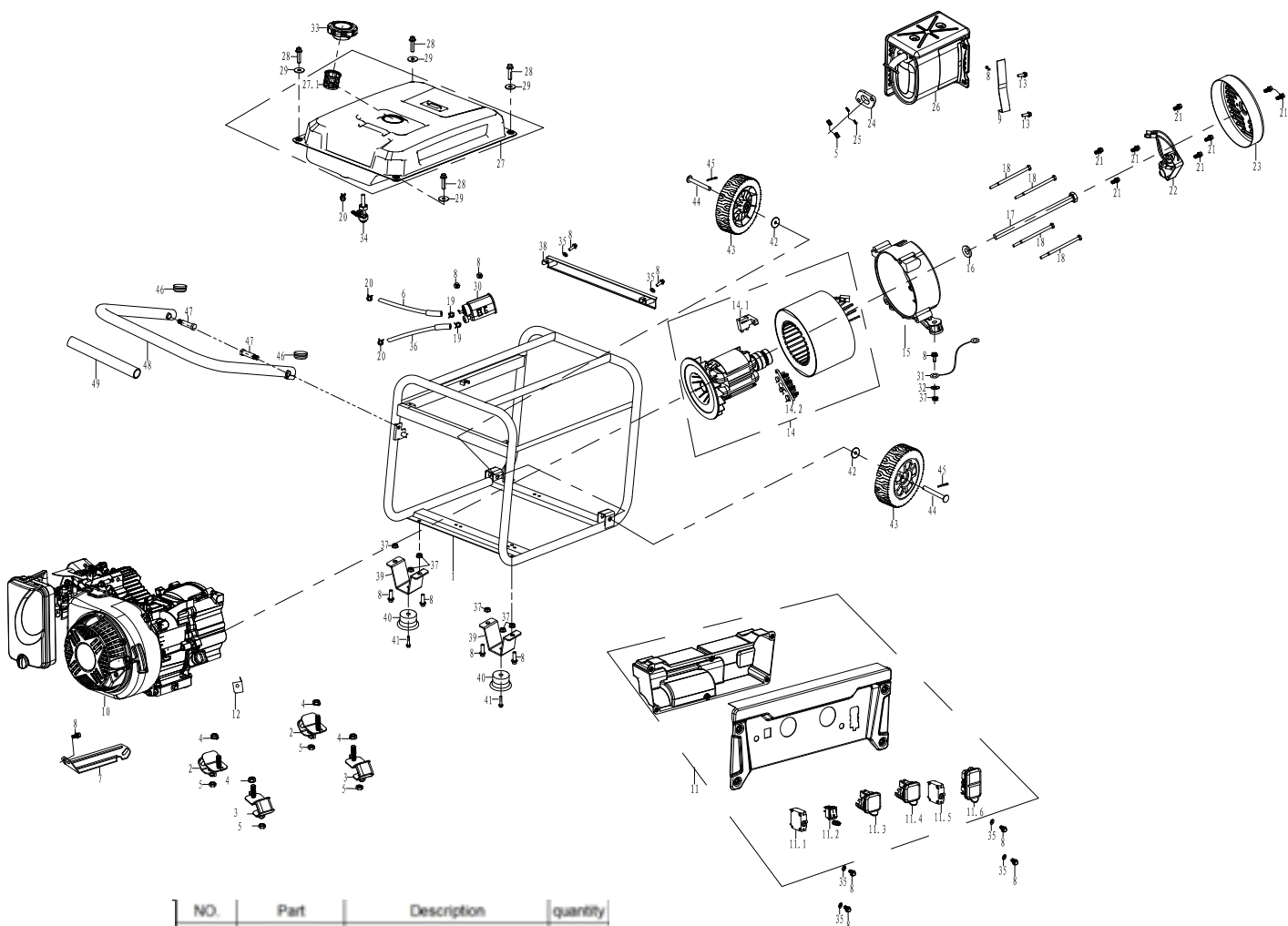
WGen2000 ENGINE VIEW



NO.	Part	Description	quantity
1	180556	Ball Bearing	2
2	180541	Oil Seal	2
3	180543	Drain Plug	2
4	180544	Drain Plug Seal	2
5	180546	Crankcase Cover	1
6	170502	Harness Clamp	1
7	180548	Cylinder Head Assy	1
7.1	180526	Spark Plug	1
7.2	180555	Valve Cover Gasket	1
7.3	180554	Valve Cover	1
7.4	140515	M6 Stud	2
7.5	140516	Gasket	1
7.6	180571	M10X80 Stud	2
8	140512	Carburetor Assy	1
9	140518	Fuel Hose	1
10	140508	Hose Clamp	1
11	180549	Governor Arm	1
12	100548	M6 Nut	3
13	180545	Gasket	1
14	110503	M8X30	6
15	180547	Cylinder Head Gasket	1
16	180553	Heat Shield	1

17	120505	M6X12	13
18	180566	Dust Plate	1
19	180567	M6X20	1
20	180540	Flywheel Assy	1
21	180539	Engine Cooling Fan	1
22	180538	Starter Cup	1
23	180537	Crankshaft Nut	1
24	180542	Ignition Coil Assy	1
25	100518	M6X25	2
26	140514	Spacer	1
27	140513	Gasket	1
28	140517	Gasket	1
29	180570	Governor Linkage	1
30	180551	Throttle Return Spring	1
31	170501	Recoil Assy	1
32	180552	Governor Bracket	1
33	160501	Air Cleaner Assy	1
34	180559	Vent	1
35	140506	Fitting	1
36	180550	Governor Spring	1
37	180509	Amplifier	1
38	180557	Dipstick	1

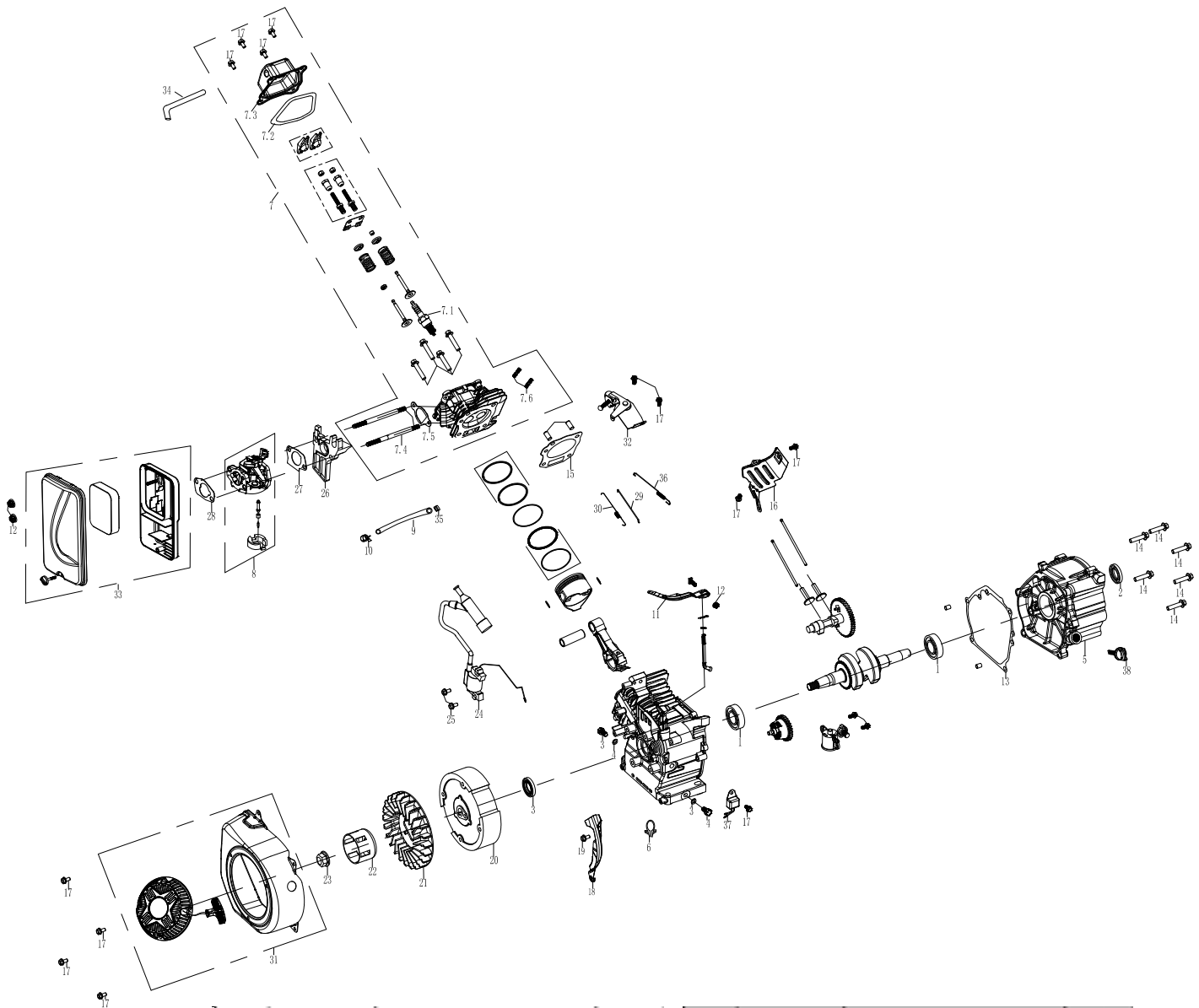
WGen3600 EXPLODED VIEW



NO.	Part	Description	quantity
1	100536	Frame	1
2	100560	Damper	2
3	100559	Damper	2
4	100520	M8 Nut	4
5	180524	M8 Nut	6
6	150519	Hose	1
7	180569	Bracket	1
8	120505	MSX12	15
9	110520	Bracket	1
10	180565	Engine Assy	1
11	130519	Control Panel Assy	1
11.1	130509	Circuit Breaker 1P30A	1
11.2	130502	Start Switch	1
11.3	130510	L5-30R	1
11.4	130511	TT-30 Receptacle	1
11.5	130507	Circuit Breaker 1P20A	1
11.6	130512	R5-20 Receptacle	1
12	180568	Dust Plate	1
13	100516	MSX16	2
14	120524	Alternator Assy	1
14.1	120525	Brush Assy	1
14.2	120526	Terminal Block	1
15	120527	Rear Bearing Carrier	1
16	120532	Washer	1
17	120531	M8X20	1
18	120521	M8X165	4
19	150518	Hose Clamp	2
20	140508	Hose Clamp	3
21	120537	MSX12	8
22	120529	AVR	1
23	120530	Alternator Cover	1
24	110519	Gasket	1

25	110502	Spring Washer	2
26	110518	Muffler Assy	1
27	150521	Fuel Tank	1
27.1	150517	Fuel Strainer	1
28	120536	M8X25	4
29	150501	M6 Washer	4
30	150520	Carbon Canister	1
31	120528	Ground Strap	1
32	120508	M8 Washer	1
33	150505	Fuel Tank Cap	1
34	150502	Fuel Valve	1
35	100547	M6 Washer	6
36	150522	Hose	1
37	100548	M6 Nut	7
38	100530	Bracket	1
39	100541	Foot Bracket	2
40	100515	Rubber Pad	2
41	100518	M8X25	2
42	100540	Washer	2
43	100538	Wheel	2
44	100537	Axle Pin	2
45	100508	Cotter Pin	2
46	100546	Plug	2
47	100545	Handle Fastener	2
48	100543	Handle	1
49	100544	Handle Cover	1

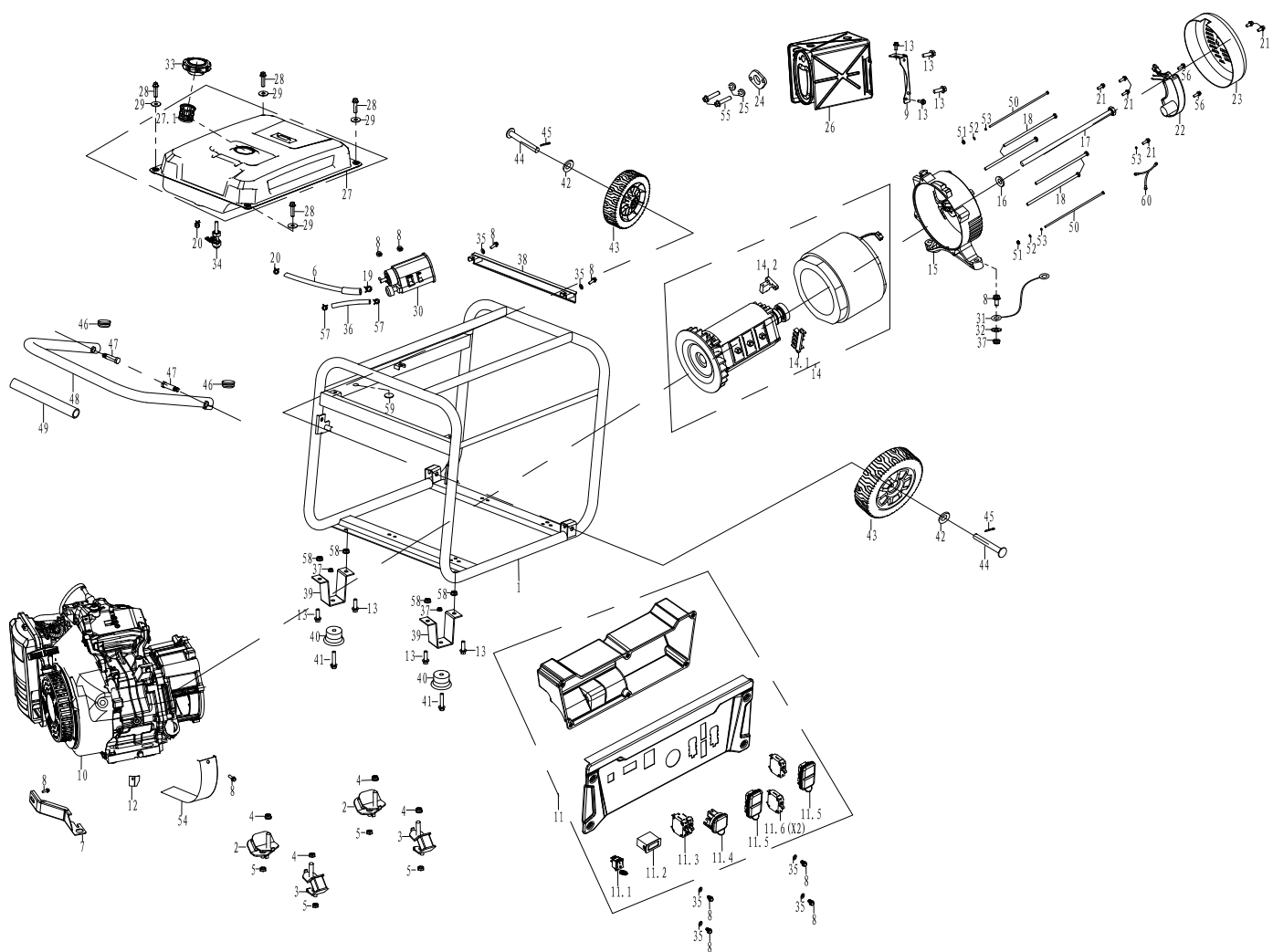
WGen3600 ENGINE VIEW



NO.	Part	Description	quantity
1	180556	Ball Bearing	2
2	180541	Oil Seal	2
3	180543	Drain Plug	2
4	180544	Drain Plug Seal	2
5	180546	Crankcase Cover	1
6	170502	Harness Clamp	1
7	180548	Cylinder Head Assy	1
7.1	180526	Spark Plug	1
7.2	180555	Valve Cover Gasket	1
7.3	180554	Valve Cover	1
7.4	140515	M6 Stud	2
7.5	140516	Gasket	1
7.6	180571	M10X80 Stud	2
8	140512	Carburetor Assy	1
9	140518	Fuel Hose	1
10	140508	Hose Clamp	1
11	180549	Governor Arm	1
12	100548	M6 Nut	3
13	180545	Gasket	1
14	110503	M8X30	6
15	180547	Cylinder Head Gasket	1
16	180553	Heat Shield	1

17	120505	M6X12	13
18	180566	Dust Plate	1
19	180567	M6X20	1
20	180540	Flywheel Assy	1
21	180539	Engine Cooling Fan	1
22	180538	Starter Cup	1
23	180537	Crankshaft Nut	1
24	180542	Ignition Coil Assy	1
25	100518	M6X25	2
26	140514	Spacer	1
27	140513	Gasket	1
28	140517	Gasket	1
29	180570	Governor Linkage	1
30	180551	Throttle Return Spring	1
31	170501	Recoil Assy	1
32	180552	Governor Bracket	1
33	160501	Air Cleaner Assy	1
34	180559	Vent	1
35	140506	Fitting	1
36	180550	Governor Spring	1
37	180509	Amplifier	1
38	180557	Dipstick	1

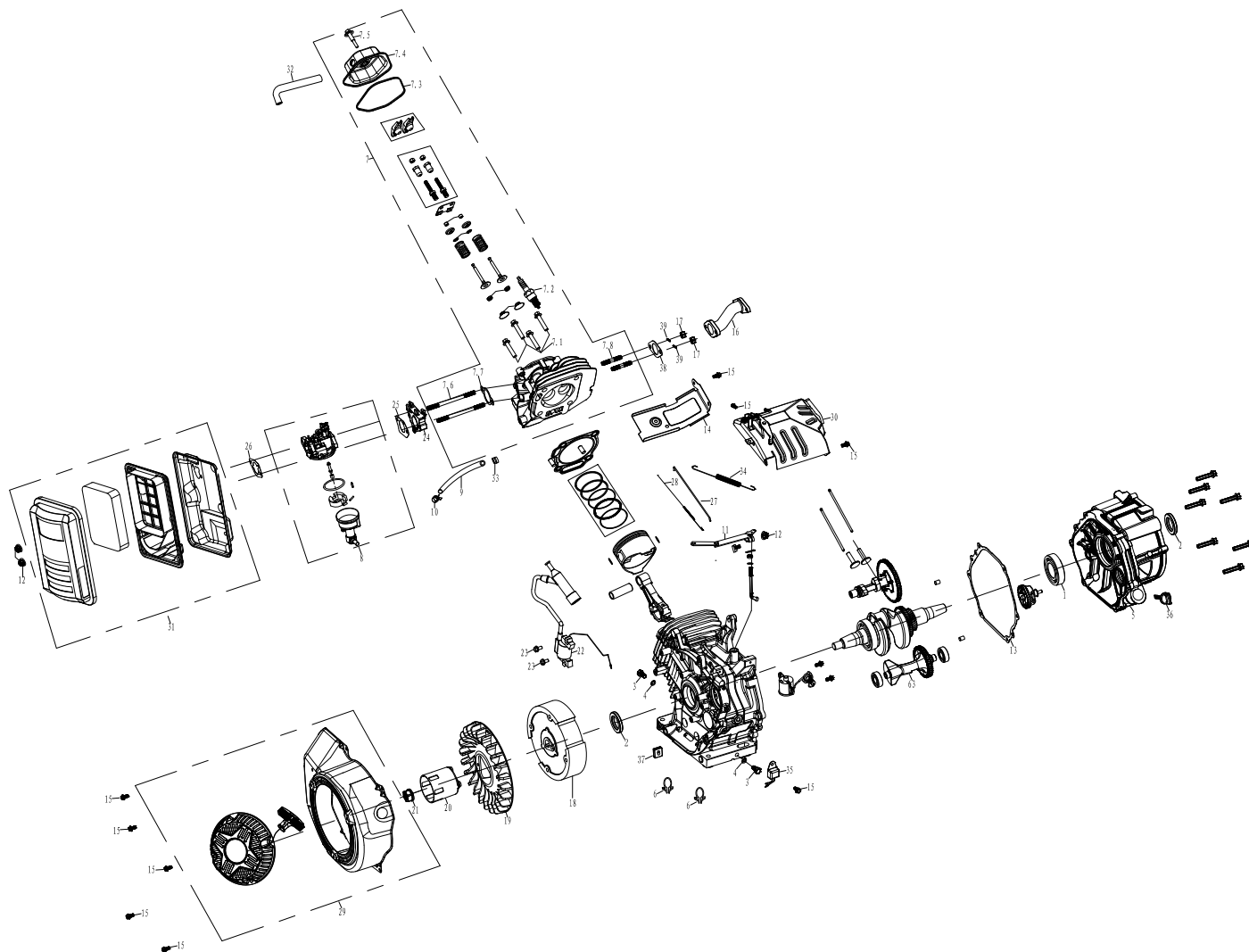
WGen5500 EXPLODED VIEW



No.	Part	Description	Qty
1	100553	Frame	1
2	100552	Damper	2
3	100553	Damper	2
4	100551	MTX Nut	4
5	100524	MT Nut	4
6	100507	Hose	1
7	100563	Bracket	1
8	100500	MTX12	11
9	110504	Bracket	1
10	100504	Engine Assy	1
11	100501	Control Panel Assy	1
11.1	100502	Start Switch	1
11.2	100503	VFT Meter	1
11.3	100504	Circuit Breaker 2P25A	1
11.4	100505	L14-50 Receptacle	1
11.5	100506	RS-20 GFCI Receptacle	2
11.6	100507	Circuit Breaker 1P25A	2
12	100562	Dust Plate	1
13	100516	MTX16	8
14	100505	Alternator Assy	1
14.1	100503	Terminal Block	1
14.2	100502	Brush Assy	1
15	100504	Rear Bearing Carrier	1
16	100546	Washer	1
17	100522	MTX16 25005	1
18	100521	MTX18	6
19	100508	Hose Clamp	1
20	100508	Hose Clamp	2
21	100507	MTX12	6
22	100523	Axle	1
23	100519	Alternator Cover	1
24	110501	Gasket	1
25	110502	Spring Washer	2
26	110517	Muffler	1
27	100500	Fuel Tank	1

27.1	100500	Fuel Strainer	1
28	100526	MTX25	4
29	100501	MT Washer	4
30	100512	Carbon Canister	1
31	100507	Ground Strap	1
32	100508	MT Washer	1
33	100505	Fuel Tank Cap	1
34	100502	Fuel Valve	1
35	100547	MT Washer	6
36	100510	Hose	1
37	100546	MT Nut	5
38	100520	Bracket	1
39	100512	Foot Bracket	2
40	100515	Rubber Pad	2
41	100518	MTX25	2
42	100510	Washer	2
43	100506	Wheel	2
44	100504	Axis Pin	2
45	100508	Cutter Pin	2
46	100527	Rug	2
47	100528	Handle Fastener	2
48	100521	Handle	1
49	100523	Handle Cover	1
50	100536	MSX004	2
51	100510	MT Nut	2
52	100511	MT Washer	2
53	100512	MT Lock Washer	3
54	100501	Fan Guard	1
55	110503	MTX00	2
56	100516	MTX16	2
57	100516	Hose Clamp	2
58	100520	MT Nut	4
59	100529	Rubber Pad	1
60	100518	Ground Strap	1

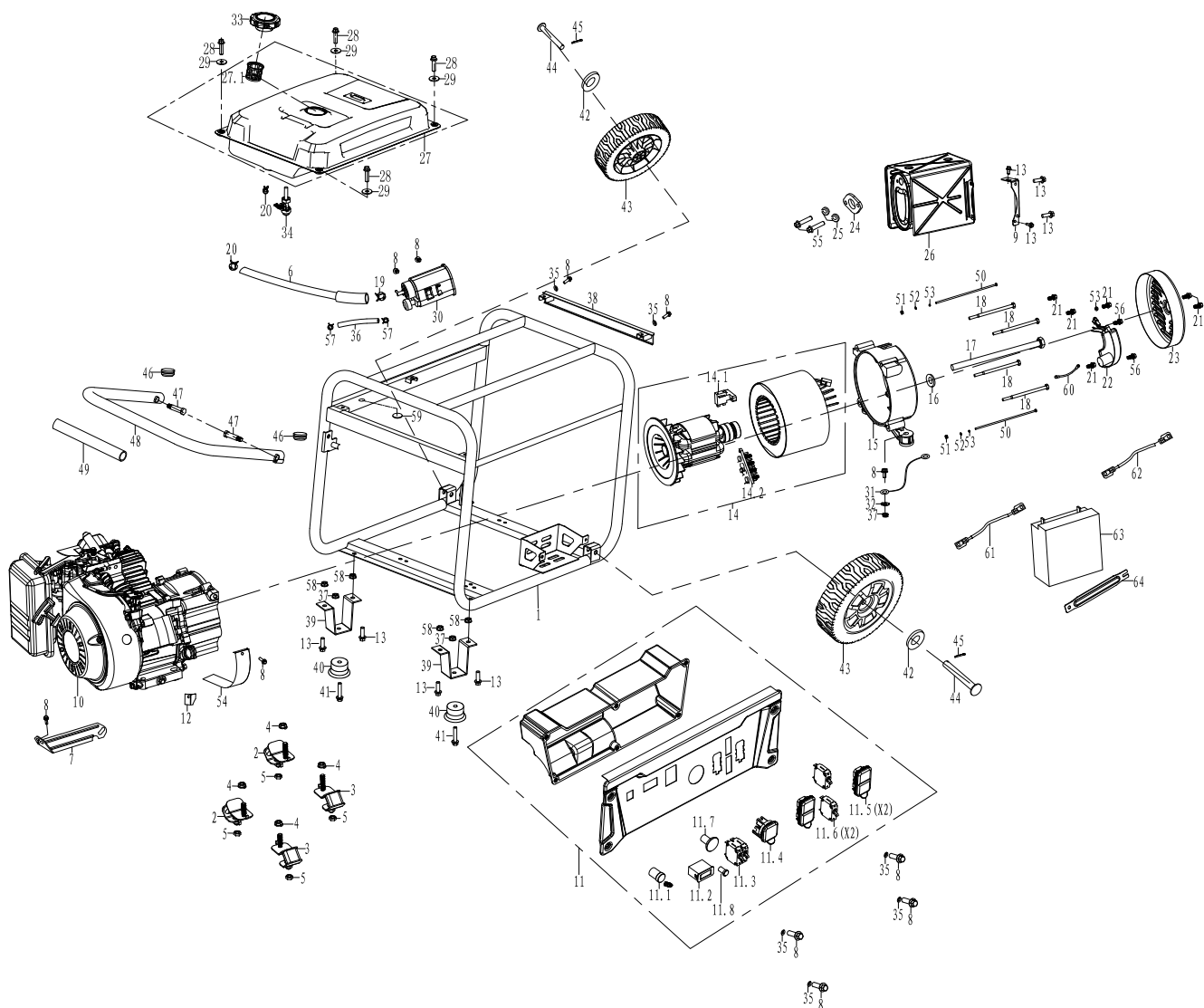
WGen5500 ENGINE VIEW



NO.	Part	Description	quantity
1	180536	Ball Bearing	1
2	180504	Oil Seal	2
3	180507	Drain Plug	2
4	180508	Drain Plug Seal	2
5	180534	Crankcase Cover	1
6	170502	Harness Clamp	2
7	180535	Cylinder Head Assy	1
7.1	180523	M10X80 Stud	4
7.2	180526	Spark Plug	1
7.3	180528	Valve Cover Gasket	1
7.4	180527	Valve Cover	1
7.5	180529	Valve Cover Bolt	1
7.6	140503	M6 Stud	2
7.7	140510	Gasket	1
7.8	180571	M10X80 Stud	2
8	140500	Carburetor Assy	1
9	140519	Fuel Hose	1
10	140508	Hose Clamp	1
11	180515	Governor Arm	1
12	100548	M6 Nut	3
13	180574	Gasket	1
14	180520	Heat Shield	1
15	120505	M6X12	9
16	180521	Exhaust Pipe	1

17	180524	M8 Nut	2
18	180573	Flywheel Assy	1
19	180502	Engine Cooling Fan	1
20	180501	Starter Cup	1
21	180500	Crankshaft Nut	1
22	180505	Ignition Coil Assy	1
23	100518	M6X25	2
24	140502	Spacer	1
25	140509	Gasket	1
26	140505	Gasket	1
27	180516	Governor Linkage	1
28	180517	Throttle Spring	1
29	170500	Recoil Assy	1
30	180519	Heat Shield	1
31	180500	Air Cleaner Assy	1
32	180533	Vent Hose	1
33	140506	Fitting	1
34	180518	Governor Spring	1
35	180509	Amplifier	1
36	180531	Dipstick	1
37	180510	Grommet	1
38	180522	Gasket	1
39	110502	Spring Washer	2

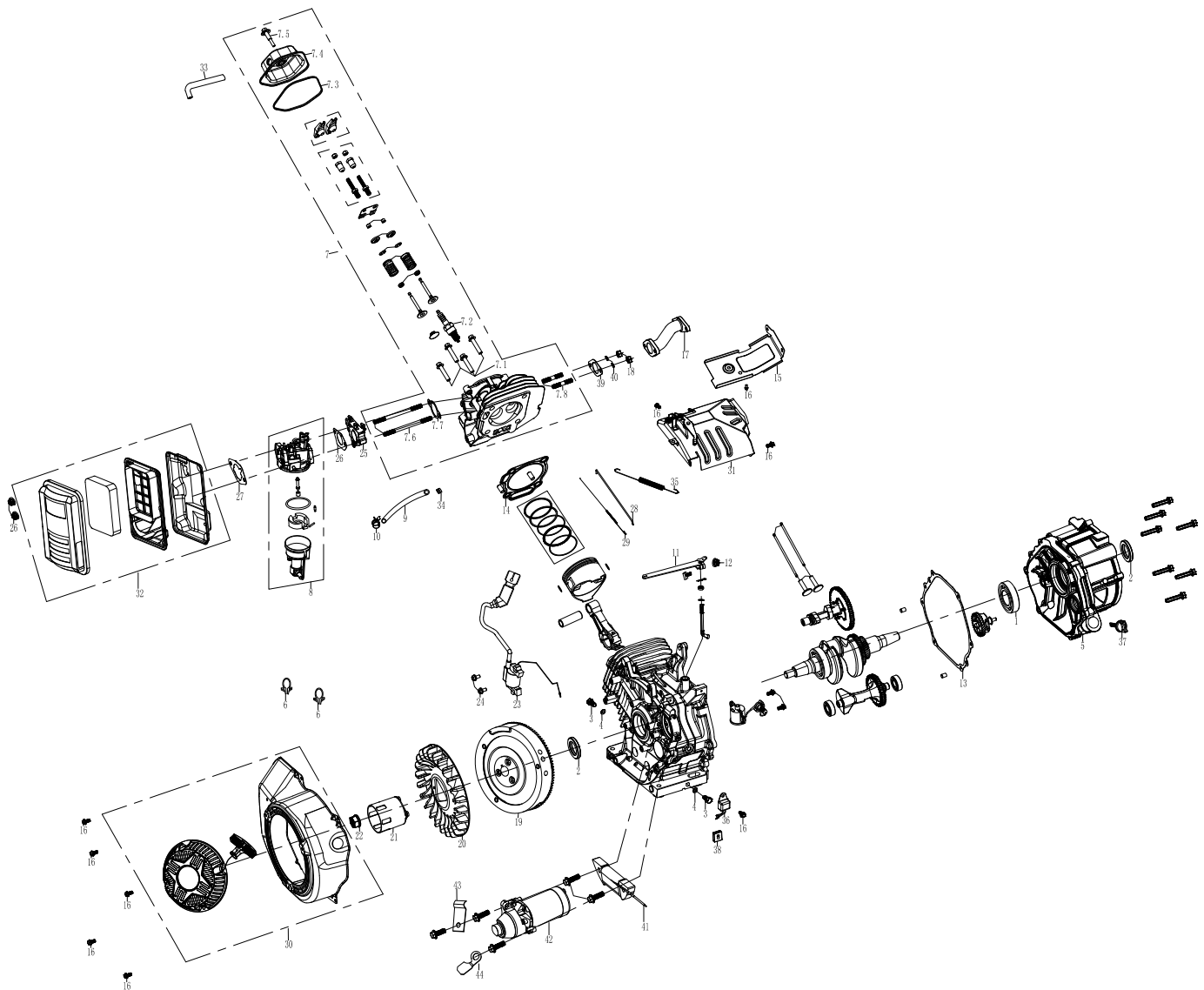
WGen7500 EXPLODED VIEW



No.	Part	Description	Qty
1	100500	Frame	1
2	100502	Damper	2
3	100503	Damper	2
4	100501	M10 Nut	4
5	100504	M8 Nut	4
6	100507	Hose	1
7	100503	Bracket	1
8	120505	MSX12	11
9	110504	Bracket	1
10	100572	Engine Assy	1
11	120506	Control Panel Assy	1
11.1	130513	Start Switch	1
11.2	130503	VFT Meter	1
11.3	130514	Circuit Breaker 2P20A	1
11.4	130505	L14-50 Receptacle	1
11.5	130506	RS-20 GFCI Receptacle	2
11.6	130507	Circuit Breaker 1P20A	2
11.7	130516	Stop Switch	1
11.8	130517	Battery Indicator	1
12	100502	Dust Plate	1
13	100516	MSX08	8
14	120501	Alternator Assy	1
14.1	120502	Brush Assy	1
14.2	120503	Terminal Block	1
15	120504	Rear Bearing Carrier	1
16	100540	Washer	1
17	120514	M10X25X0.8	1
18	120513	MSX00	4
19	100508	Hose Clamp	1
20	140508	Hose Clamp	2
21	120507	MSX12	6
22	120517	AVR	1
23	120518	Alternator Cover	1
24	110501	Gasket	1
25	110502	Spring Washer	2
26	110500	Muffler	1

27	100500	Fuel Tank	1
27.1	100506	Fuel Strainer	1
28	120506	MSX25	4
29	100501	M8 Washer	4
30	100512	Carbon Canister	1
31	120507	Ground Strap	1
32	120508	M8 Washer	1
33	100505	Fuel Tank Cap	1
34	100502	Fuel Valve	1
35	100547	M8 Washer	8
36	100510	Hose	1
37	100548	M8 Nut	3
38	100530	Bracket	1
39	100512	Foot Bracket	2
40	100515	Rubber Pad	2
41	100516	MSX25	2
42	100510	Washer	2
43	100506	Wheel	2
44	100504	Axle Pin	2
45	100508	Cotter Pin	2
46	100527	Plug	2
47	100525	Handle Fastener	2
48	100521	Handle	1
49	100523	Handle Cover	1
50	120506	MSX20	2
51	120510	M8 Nut	2
52	120511	M8 Washer	2
53	120513	M8 Lock Washer	3
54	100501	Fan Guard	1
55	110503	MSX00	2
56	120516	MSX08	2
57	100516	Hose Clamp	2
58	100520	M8 Nut	4
59	100529	Rubber Pad	1
60	120516	Ground Strap	1
61	100508	Negative Lead	1
62	100508	Positive Lead	1
63	100557	Battery	1
64	100558	Camp	1

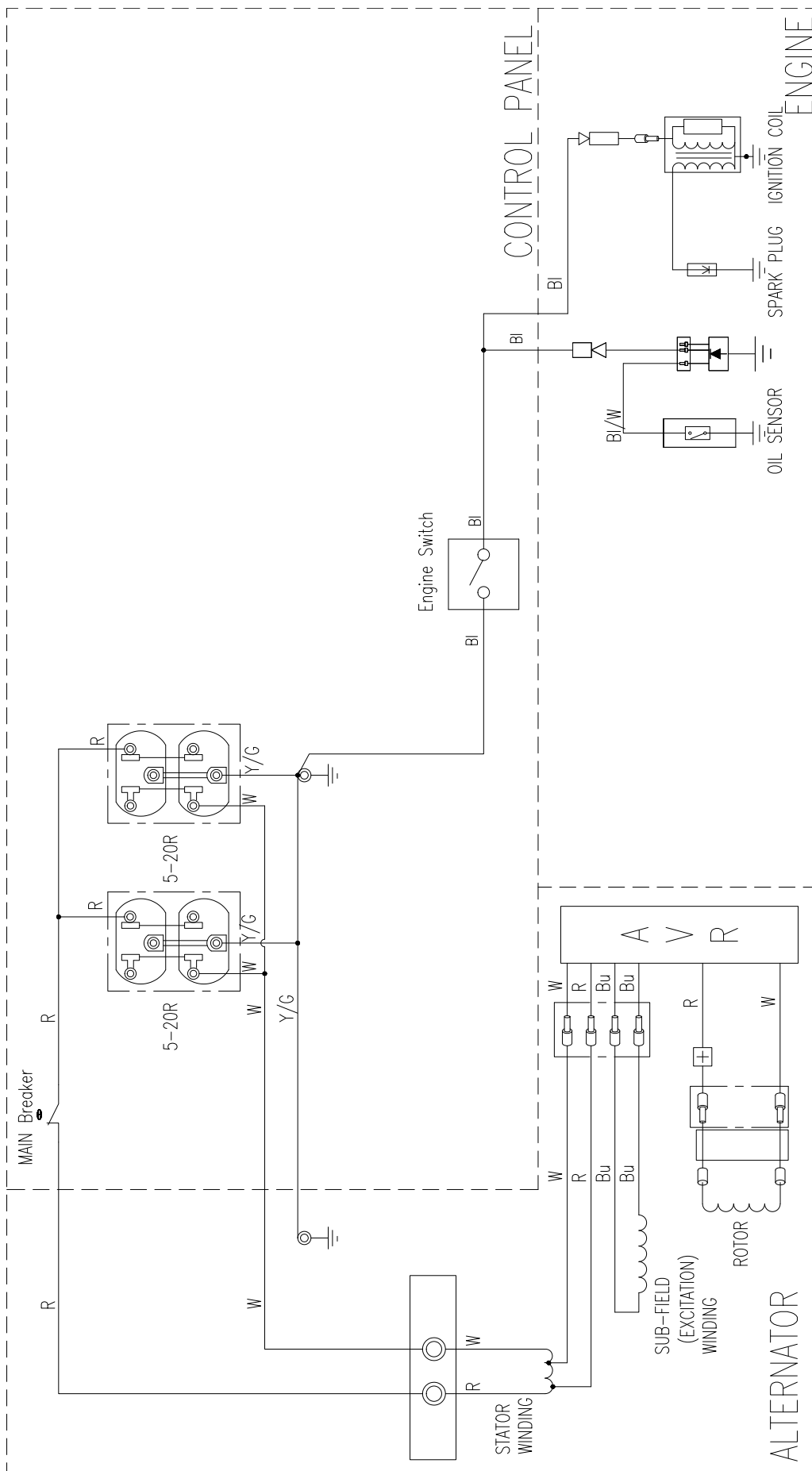
WGen7500 ENGINE VIEW



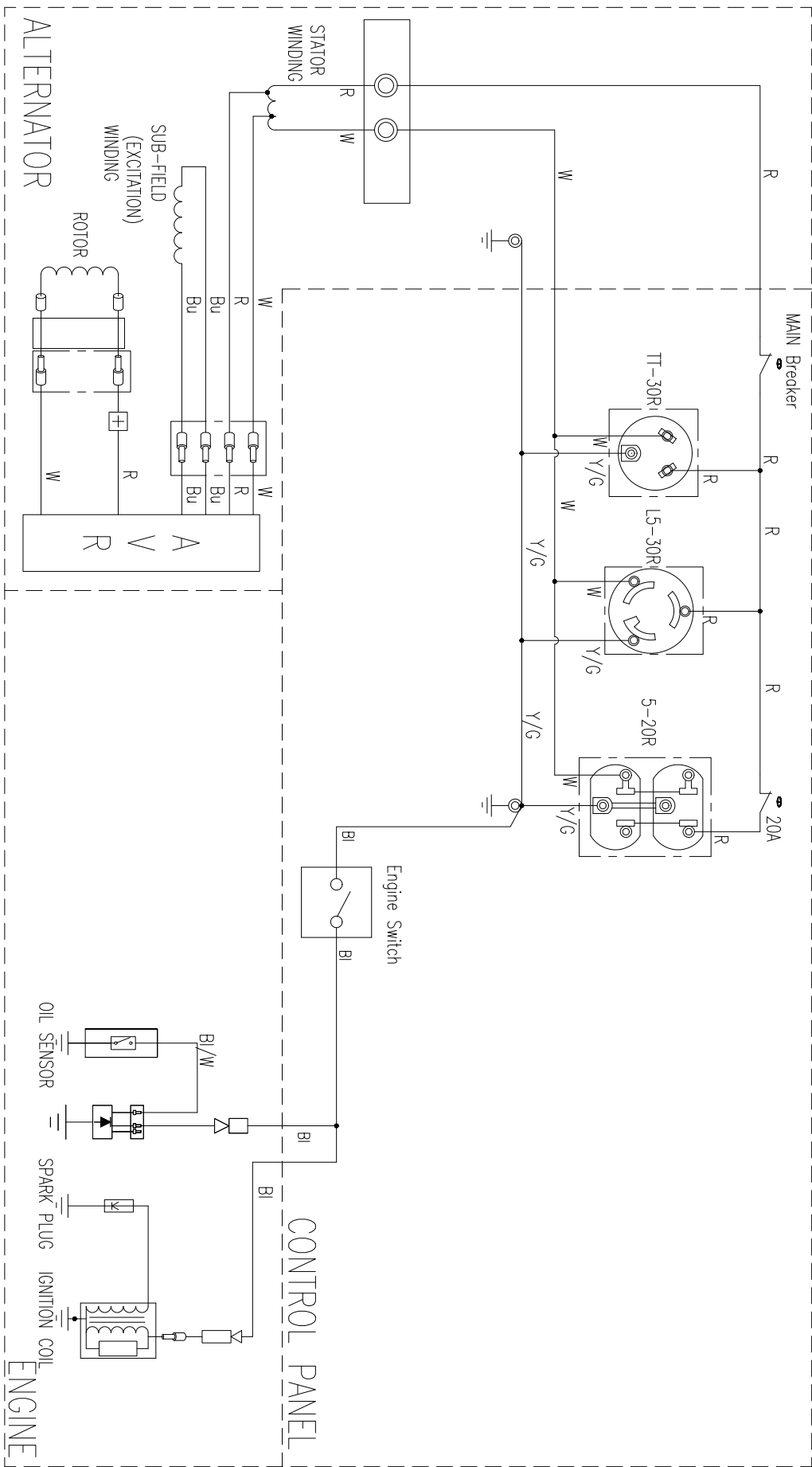
NO.	Part	Description	Qty
1	180530	Ball Bearing	1
2	180504	Oil Seal	2
3	180507	Drain Plug	2
4	180508	Drain Plug Seal	2
5	180512	Crankcase Cover	1
6	170502	Harness Clamp	2
7	180514	Cylinder Head Assy	1
7.1	180523	M10X80 Stud	4
7.2	180526	Spark Plug	1
7.3	180528	Valve Cover Gasket	1
7.4	180527	Valve Cover	1
7.5	180529	Valve Cover Bolt	1
7.6	140503	M8 Stud	2
7.7	140504	Gasket	1
7.8	180571	M10X80 Stud	2
8	140500	Carburetor Assy	1
9	140507	Fuel Hose	1
10	140508	Hose Clamp	1
11	180515	Governor Arm	1
12	100548	M8 Nut	3
13	180511	Gasket	1
14	180513	Cylinder Head Gasket	1
15	180520	Heat Shield	1
16	120505	M8X12	9
17	180521	Exhaust Pipe	1
18	180524	M8 Nut	2
19	180503	Flywheel Assy	1

20	180502	Engine Cooling Fan	1
21	180501	Starter Cup	1
22	180500	Crankshaft Nut	1
23	180505	Ignition Coil Assy	1
24	100518	M8X25	2
25	140502	Spacer	1
26	140501	Gasket	1
27	140505	Gasket	1
28	180516	Governor Linkage	1
29	180517	Throttle Spring	1
30	170500	Recoil Assy	1
31	180519	Heat Shield	1
32	180500	Air Cleaner Assy	1
33	180533	Vent Hose	1
34	140506	Fitting	1
35	180518	Governor Spring	1
36	180509	Amplifier	1
37	180531	Dipstick	1
38	180510	Grommet	1
39	180522	Gasket	1
40	110502	Spring Washer	2
41	180506	Charge Coil	1
42	170503	Engine Starter	1
43	170504	Wire Clamp	1
44	170506	Wire Clamp	1

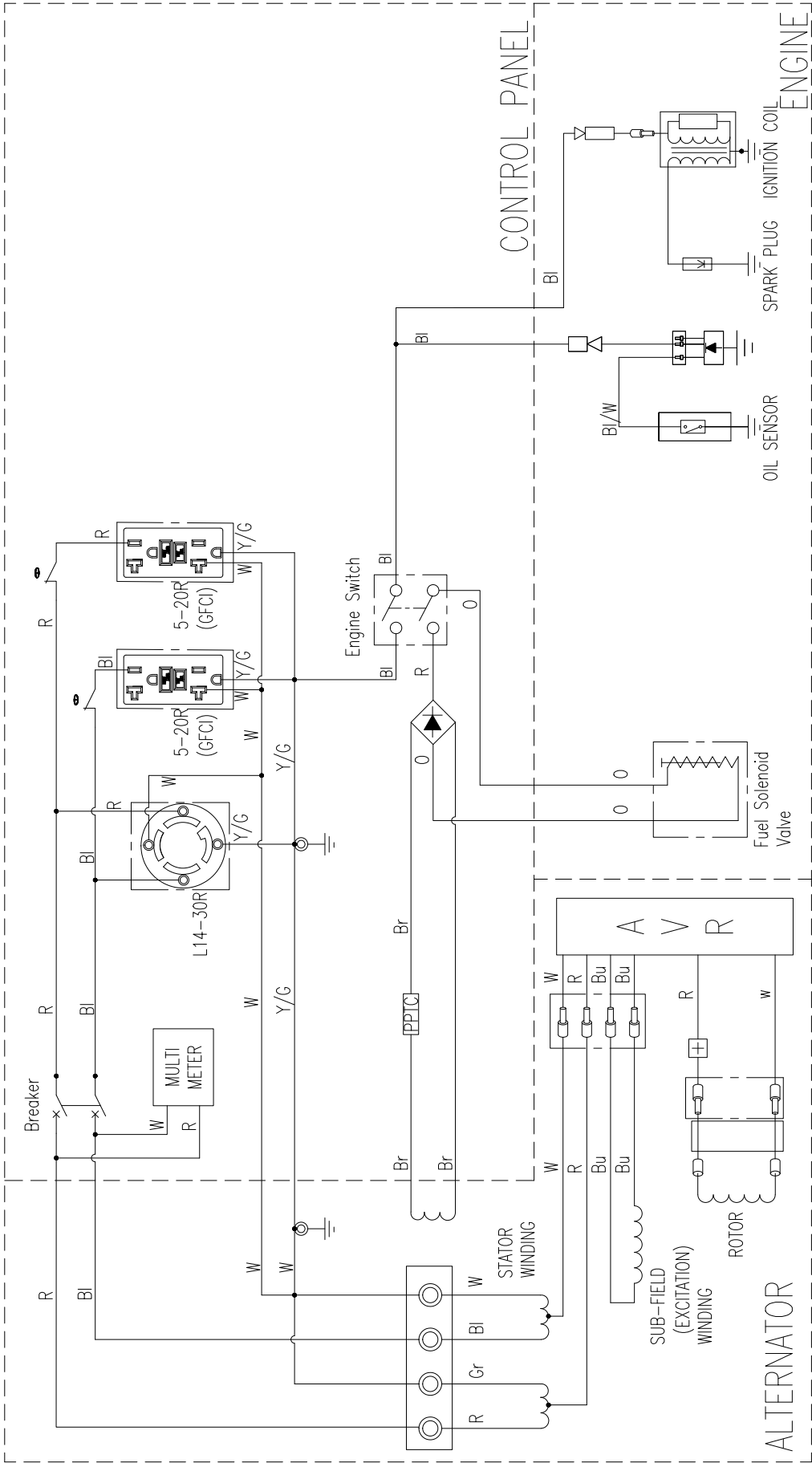
WGen2000 SCHEMATIC



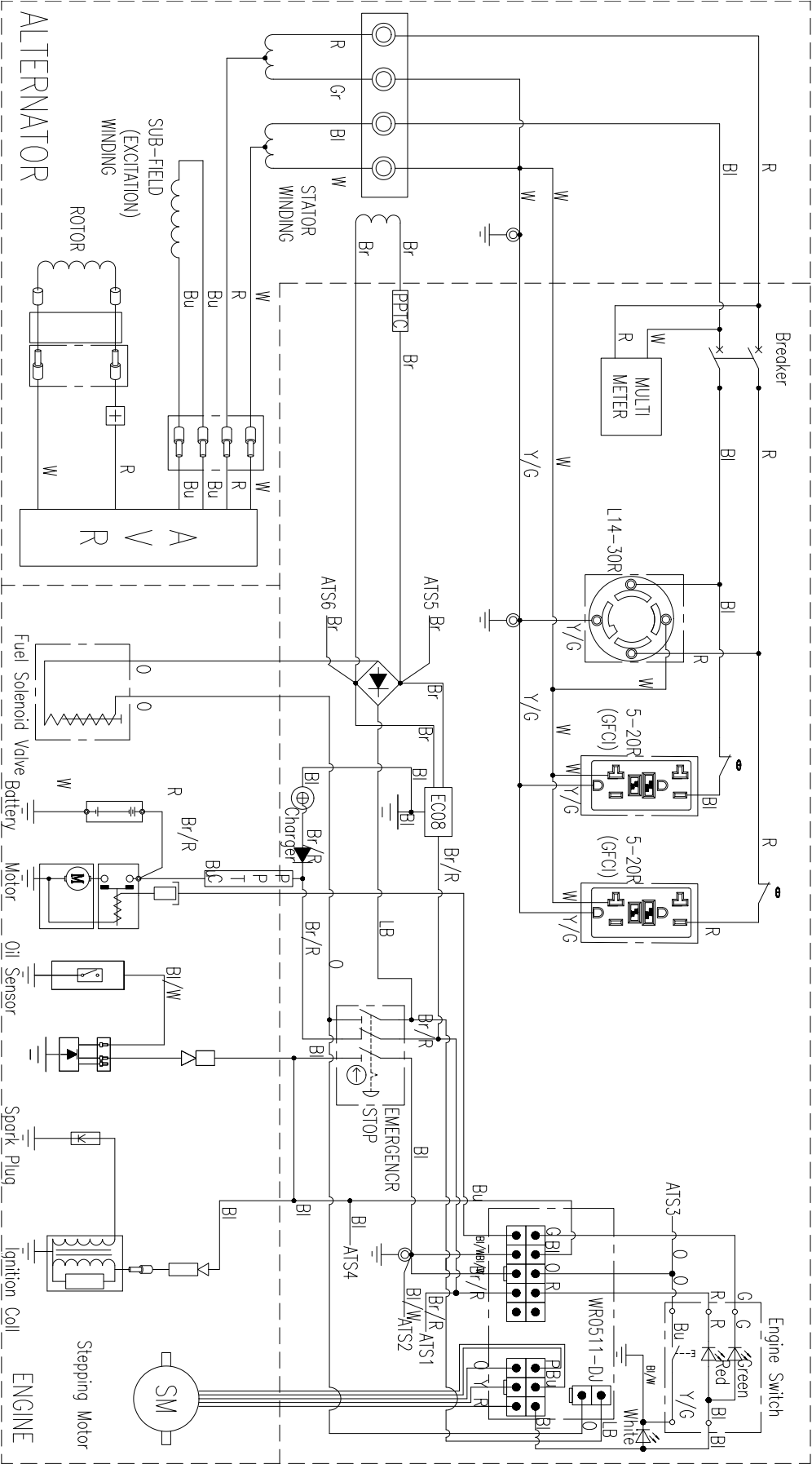
WGen3600 SCHEMATIC



WGen5500 SCHEMATIC



WGen7500 SCHEMATIC





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