

1750W, 3000W 4000W AND 5000W ALTERNATORS FOR PORTABLE POWER



JOHN DEERE

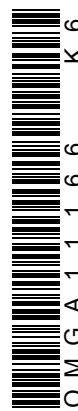
OPERATORS MANUAL

**1750W, 3000W 4000W AND 5000W
ALTERNATORS FOR PORTABLE
POWER**

OMGA11166 K6 English

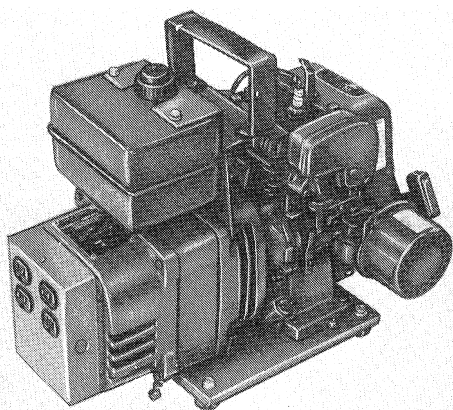
**OUTSIDE MANUFACTURED PRODUCTS
OMGA11166 K6**

**LITHO IN THE U.S.A.
ENGLISH**



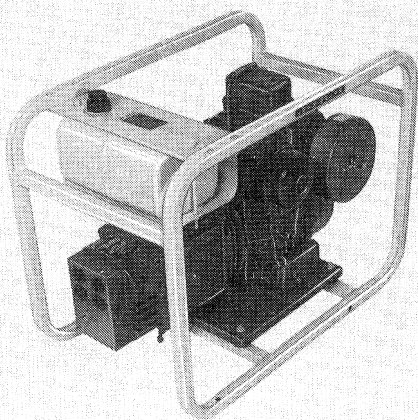


To The Operator



G10357Y

1750W Alternator



G10358Y

5000W Alternator



This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Record your alternator and engine serial numbers in the space provided on page 25.

Because John Deere sells its products world-wide, U.S. units of measure are shown with their respective metric equivalents throughout this operator's manual. These equivalents are the SI (International System) Units of Measure.

1750W, 3000W, 4000W, AND 5000W ALTERNATORS FOR PORTABLE POWER

PREDELIVERY CHECK LIST

The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- ☐ Check engine for proper lubrication.
- ☐ Check all nuts and bolts to be sure they are tight.

Paint all parts scratched in shipment.

Engine Run-In

- ☐ Start the engine.
- ☐ Run engine until it warms up.
- ☐ Observe the operation of moving parts. Watch for any signs of faulty operation, or listen for unusual sounds.
- ☐ The alternator has been tested and to the best of my knowledge is ready for delivery to the customer.

(Date)

(Technician)

DELIVERY CHECK LIST

- ☐ Show the customer the location and function of the controls.
- ☐ Explain the procedure for operating alternator.
- ☐ Give the Operator's Manual to the customer and explain that all things discussed so far are explained and illustrated in the manual.

- ☐ Invite the customer to come in and discuss any problems encountered while operating his alternator.

(Date)

(Technician)

AFTER SALE CHECK LIST

The following is a suggested list of items to be checked at a dealer-customer mutually agreeable time after using the alternator.

- ☐ With alternator operating in normal conditions, observe the operation of moving parts. Watch for signs of faulty operation, overheated bearings, or any unusual sounds.
- ☐ Check and make sure all nuts and bolts are tight.
- ☐ Check with the customer to see if the recommended periodic lubrication has been performed.
- ☐ Check with the customer as to the performance of the alternator.

(Date)

(Technician)

OWNER REGISTER

Name _____

Post Office _____

County _____ State _____

Date _____



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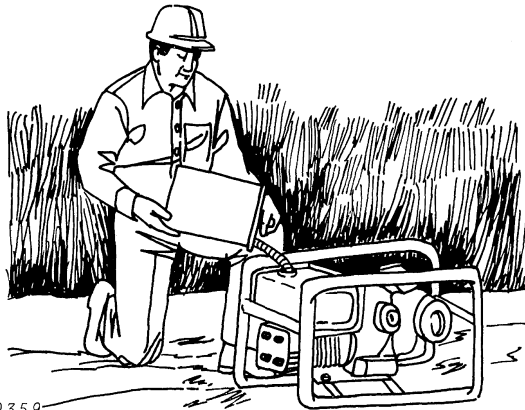
Safety Suggestions

Operate Alternator Safely

Always use a load transfer switch when connecting portable power to circuits to prevent feedback through utility power lines.

Make certain only a qualified electrician performs the electrical installations.

When working around electrical equipment, move slowly. Do not lunge after falling tools.



G10359

Handle Fuel Safely

Do not fill fuel tank while engine is running.

Do not add fuel when engine is hot.

Always wipe up spilled fuel.

Never smoke when handling fuel.

Never add fuel indoors.

Drain gas before transporting alternator where danger of spilled gas may exist.

Have An Extinguisher Nearby

Have a multipurpose dry chemical fire extinguisher filled and handy. Know how to use it.

Respect Electricity

Do not touch electrical equipment while standing on metal floors, damp concrete, or other well-grounded surfaces.

Do not handle electrical equipment while wearing damp clothing (particularly wet shoes) or while skin surfaces are damp.

Be extra cautious when working with alternator during wet weather.

Stop all power, and ground all high-voltage points before touching wires.

Make certain that power cannot be accidentally restored.

Do not examine live equipment when mentally or physically fatigued.

Do not work on ungrounded electrical equipment.

Do not take unnecessary risks.

Do not work alone.

Before working on alternator shut the engine off.

Remove spark plug wire when working on engine.

Read the operator's manual.

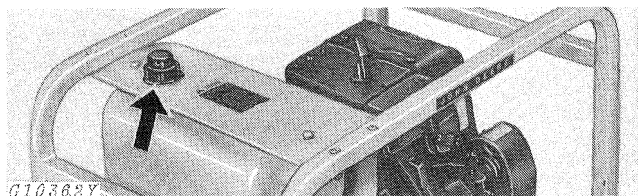


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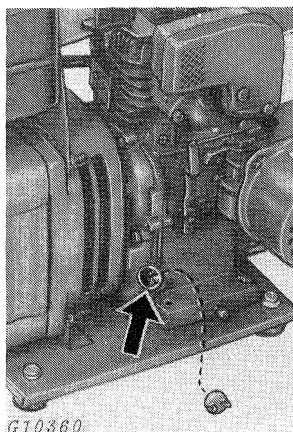
Preparing For Use

FUEL TANK



IMPORTANT: Fill the fuel tank with fresh, clean, regular grade gasoline. Do not use gasoline that has been stored for long periods.

CRANKCASE OIL

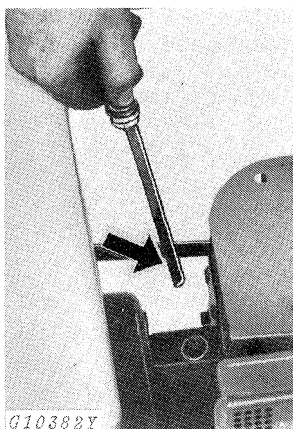


IMPORTANT: Stop engine. Never add or check oil while engine is running.

1750W

With alternator on a level surface, fill engine with oil to bottom thread of filler opening. Refer to page 12 for proper oil viscosity.

3000W, 4000W and 5000W



With alternator on a level surface, add oil until level is in "SAFE" range on dipstick. See page 12 for proper oil viscosity.



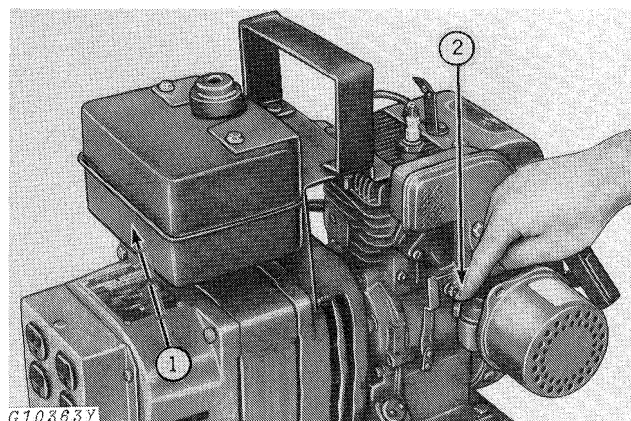
Field Operation and Adjustments

1750W ALTERNATOR

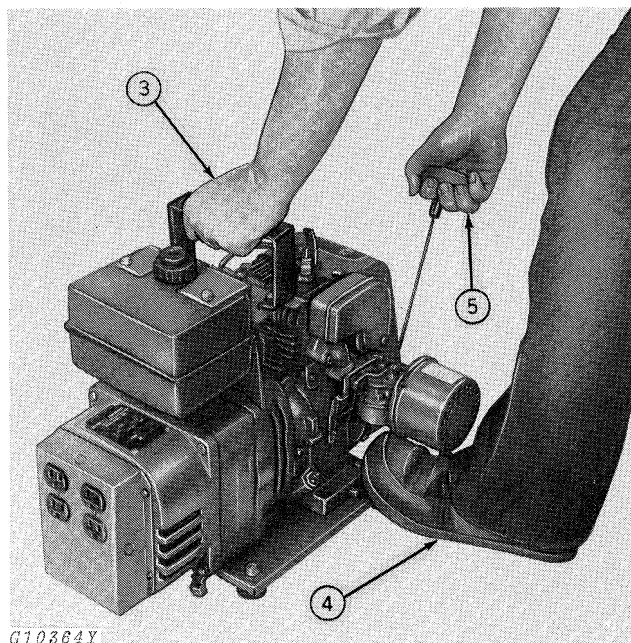
Starting Engine

NOTE: Check oil and gasoline level before starting.

1. Open gas shut-off valve under gas tank by turning it counterclockwise.
2. Apply the choke. The choke is needed only when starting a cold engine; however, when starting an extremely hot engine or one which has just been refueled, it may be necessary to apply the choke until the engine runs smoothly.

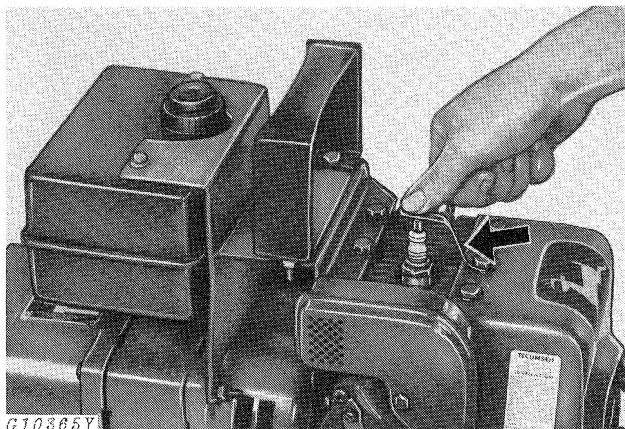


3. Grasp the carrying handle with your left hand.
4. Hold the alternator down firmly by placing your left foot on the mounting base.
5. Using your right hand, pull the starter handle with a short, sharp pull.
6. (Not illustrated.) When the engine first pops but does not start, immediately release the choke. Then pull the starter handle to start the engine. If the engine does not start after several pulls, repeat the procedure starting with Step No. 1.



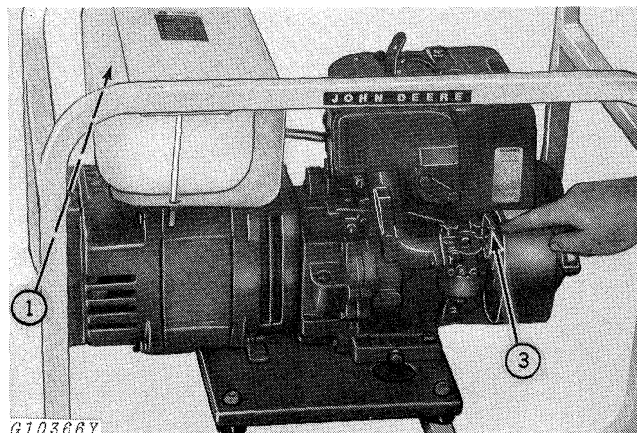
Stopping Engine

Press the shut-off clip against the spark plug until the engine stops.



Continued on next page

3000W, 4000W AND 5000W ALTERNATORS



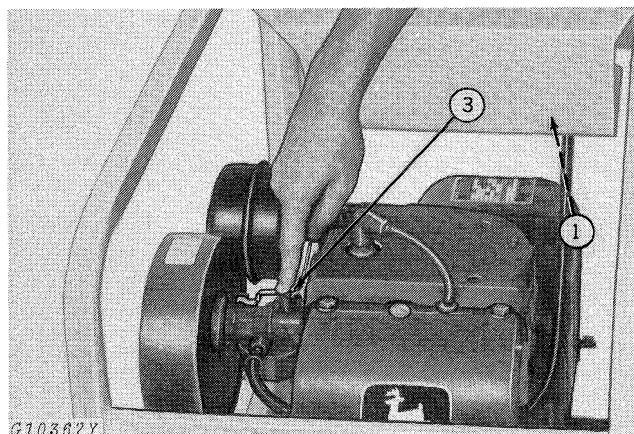
G10366Y

3000W Alternator

Starting Engine

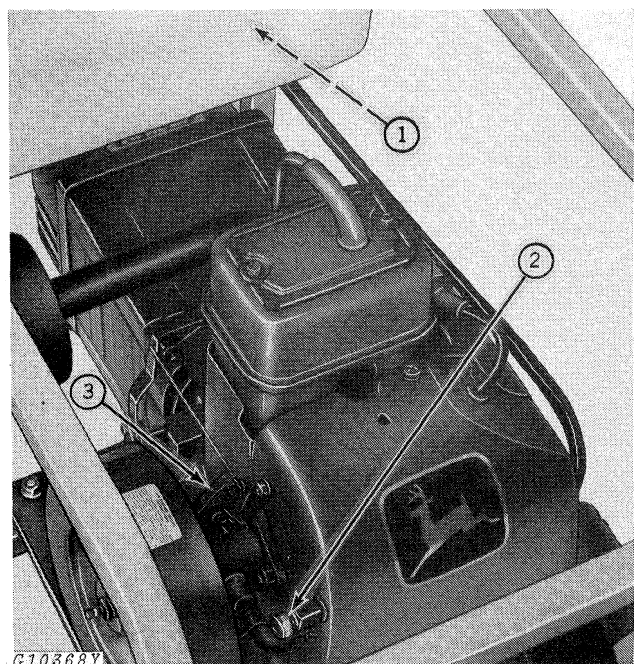
NOTE: Check oil and gasoline before starting.

1. Open gas shut-off valve under gas tank by turning it counterclockwise.
2. (5000W only) Open in-line gas shut-off valve as shown.
3. Apply the choke. The choke is needed only when starting a cold engine; however, when starting an extremely hot engine or one which has just been refueled, it may be necessary to apply the choke until the engine runs smoothly.



G10367Y

4000W Alternator



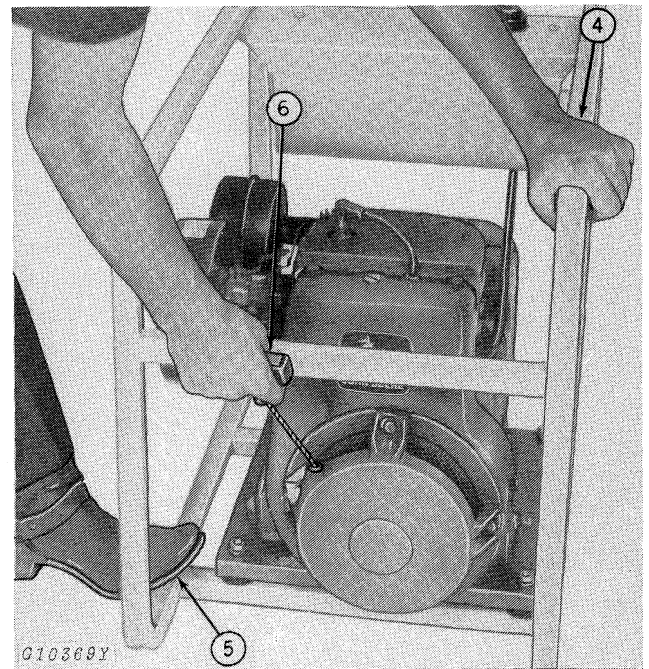
G10368Y

5000W Alternator

4. Grasp the carrying frame.
5. Hold the alternator down firmly.
6. Pull the starter handle with a short, sharp pull.

IMPORTANT: Pull starter handle to the outside of the carrying frame.

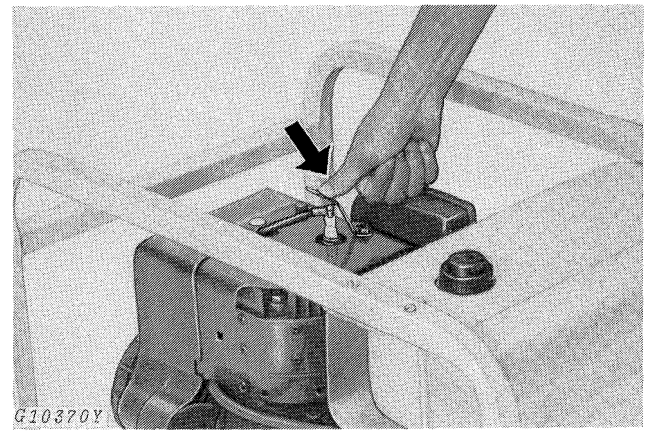
7. (Not illustrated.) When the engine first pops but does not start, immediately release the choke. Then pull the starter handle. If the engine does not start after several pulls, repeat the procedure starting with Step No. 1.



Stopping Engine

3000W

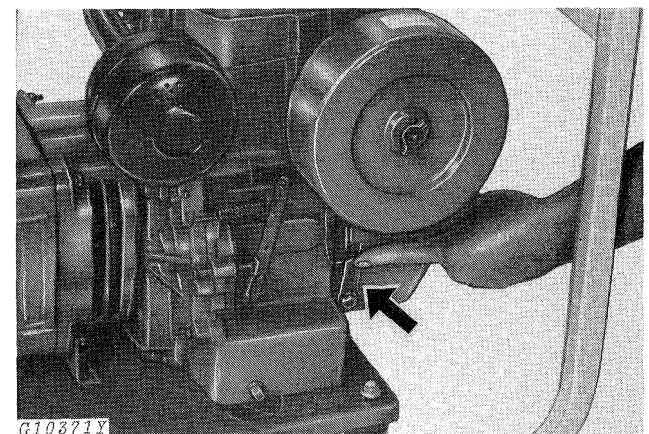
Press the shut-off clip against the spark plug until the engine stops.



3000W Alternator

4000W and 5000W

Press the shut-off clip against the screw attached to the wire from the magneto.



4000W and 5000W Alternators

RECEPTACLES

Before attempting to use the alternator, check the wattage of the equipment you are going to operate. See page 24.

If the wattage requirements are not shown on the equipment, check to see if the amps and volts are listed. Multiply the number of amps times the number of volts to obtain the wattage requirement.

IMPORTANT: Do not exceed the rated wattage output of your alternator.

1750W

NOTE: Make certain equipment you are supplying power to is 125 volts.

The 1750W alternator supplies power to 125-volt equipment only.

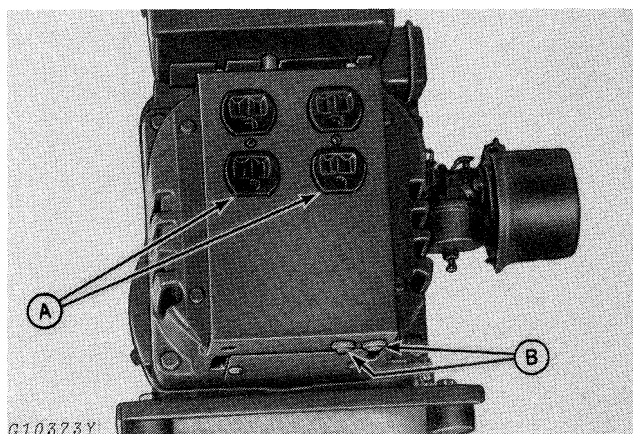


CAUTION: Do not attempt to plug 250-volt equipment into the 125-volt receptacles on the 1750W Alternator.

Circuit Breakers

The 1750W Alternator is equipped with two circuit breakers which control output to their respective receptacles and prevent an overload to the system.

Push to reset circuit breakers.



A—125-Volt Receptacles
B—Circuit Breakers

3000W, 4000W and 5000W

These alternators supply power to both 125- and 250-volt equipment.

The right-hand receptacles supply 125-volts and the left-hand receptacles supply 250-volts.



CAUTION: Do not attempt to plug 250-volt equipment into a 125-volt receptacle or 125-volt equipment into a 250-volt receptacle on the alternator.

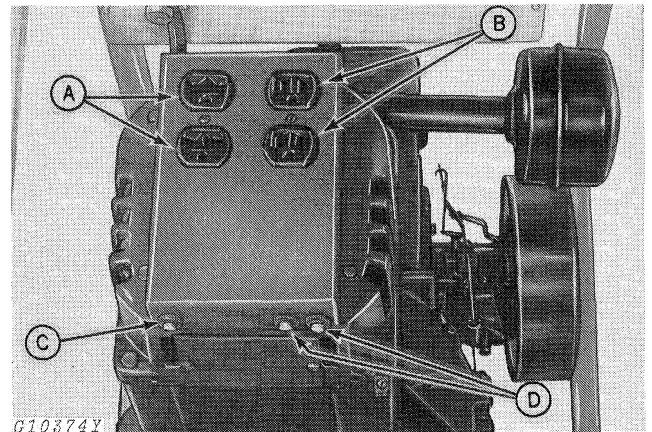
When using the alternator place it on a level surface.

NOTE: Start engine before plugging in any equipment.

Circuit Breakers

The 3000W, 4000W and 5000W Alternators are equipped with three circuit breakers. Two breakers control output to the 250-volt receptacles. One circuit breaker controls output to the 125-volt receptacles.

Push to reset circuit breakers.

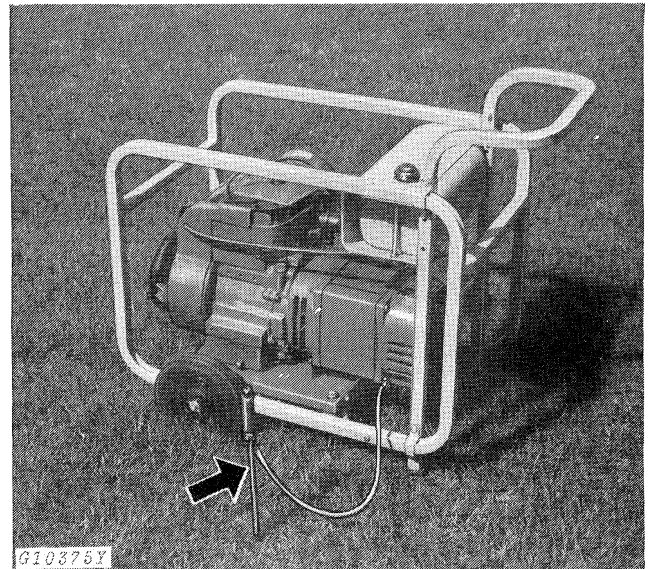


G10374Y

- A—250-Volt Receptacles
- B—125-Volt Receptacles
- C—125-Volt Circuit Breaker
- D—250-Volt Circuit Breakers

GROUNDING

When using the alternator outside, ground it to a ten foot copper rod as shown.



G10375Y

4000W Illustrated

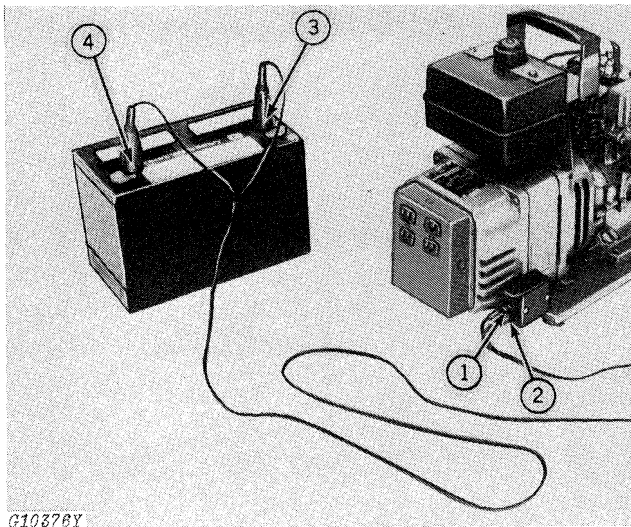
BATTERY CHARGER



Gas given off by batteries is explosive. To avoid injury, keep sparks or flame away from battery!

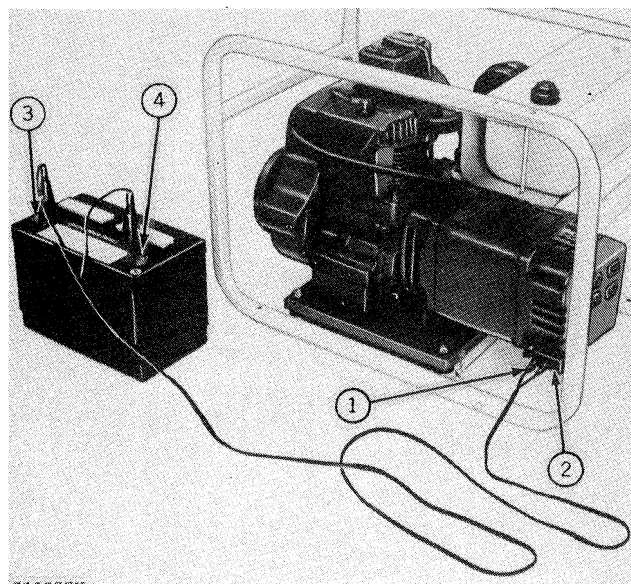
1. Attach the positive battery cable to the positive battery charger receptacle.
2. Attach the negative battery cable to the negative battery charger receptacle.
3. Attach the negative battery cable connector to the negative battery terminal.
4. Attach the positive battery cable connector to the positive battery terminal.

Start engine and charge battery for approximately four hours.



G10376Y

1750W



G10377Y

3000W, 4000W and 5000W

STORAGE



CAUTION: Remove spark plug and drain gas outdoors away from open flame.

Drain the gas from the gas tank. Start the engine. Run the engine until it stops.

Remove spark plug and pour one ounce (30 ml) of fresh engine oil into cylinder. Crank engine twice to distribute oil. Replace spark plug.

Store inside in a cool, dry place.

Removing From Storage

1. Clean the alternator and engine of any dirt.
2. Check oil level, page 4.
3. Fill the fuel tank with regular grade gasoline, page 4.



Lubrication

ENGINE LUBRICATING OILS

If oil other than Torq-Gard Supreme is used, it must conform to the following specifications:

Single Viscosity Oils

API Service CD/SD
MIL-L-2104C*
Series 3*

Multi-Viscosity Oils

API Service CC/SE, CC/SD or
SD MIL-L46152

Select oil viscosity depending on the highest expected prevailing temperature for the fill period.

Air Temperature	John Deere Torq-Gard Oil	Other Oils	
		Single Viscosity Oil	Multi-Viscosity Oil
Above 32°F. (0°C)	SAE 30	SAE 30	Not recommended
-10°F to 32°F (-23°C to 0°C)	SAE 10W-20	SAE 10W	SAE 10W-30
Below -10°F (-23°C)	SAE 5W-20**	SAE 5W**	SAE 5W-20**

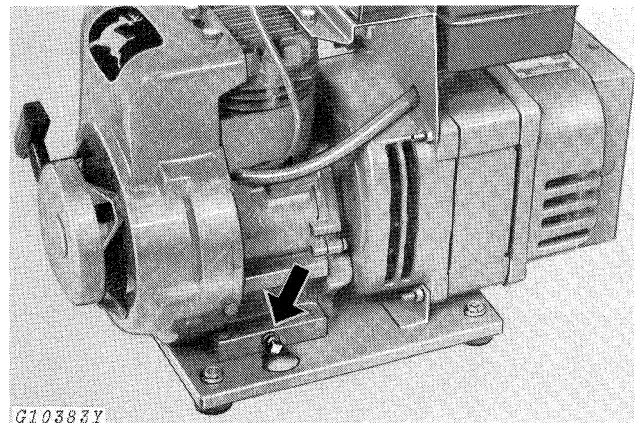
**As further assurance of quality, the oil should be identified as suitable for API Service Designation SD.*

***Some increase in oil consumption may be expected when SAE 5W-20 or SAE 5W oils are used. Check oil level more frequently.*

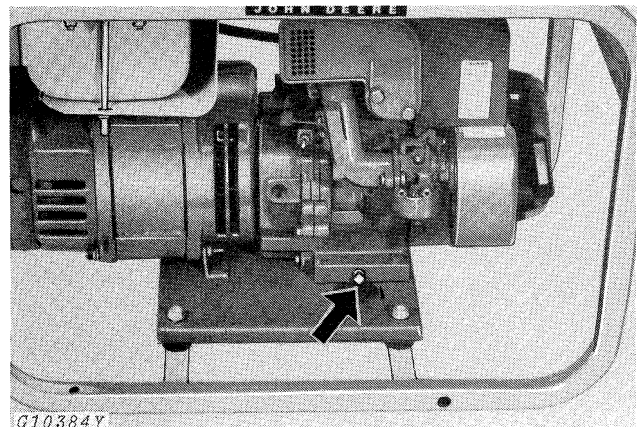
CHANGING OIL

Change oil after using the first two tanks of gasoline. Change oil regularly after each twenty-five hours of operation, or more often in extremely dusty conditions.

Remove drain plug and drain oil from crankcase. Install the drain plug and fill the crankcase, page 14.

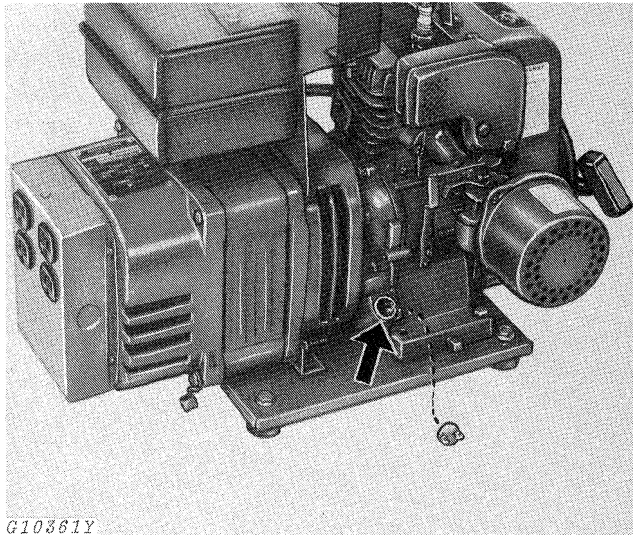


G10383Y
1750W



G10384Y
3000W, 4000W and 5000W

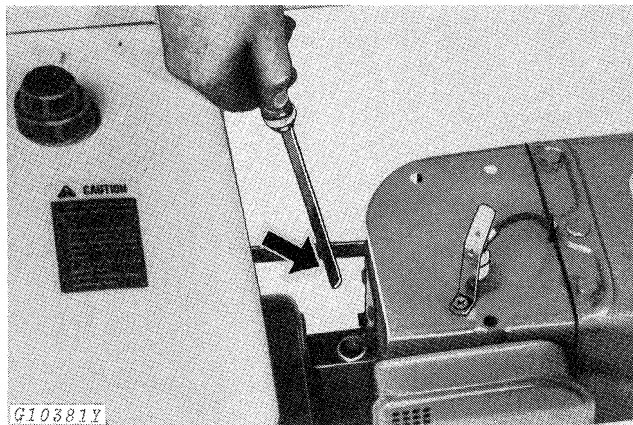
FILLING CRANKCASE



IMPORTANT: Stop engine. Never check or add oil when engine is running.

1750W

Place alternator on a level surface. Wipe off dust and unscrew oil fill plug. If oil level is lower than the bottom thread line, add oil.



3000W, 4000W and 5000W

Place the alternator on a level surface. Wipe off dust and unscrew oil fill dipstick. Oil should be in "SAFE" range on dipstick. If engine has been running it will be necessary to wipe off dipstick with a clean cloth and screw it all the way into the filler tube to obtain an accurate reading.

If oil is not in "SAFE" range on dipstick, add oil.



SERVICE

AIR CLEANER

Cleaning or Replacing Filter Element

Use low pressure compressed air to clean a dry dusty element. Direct the air blast up and down the pleats, blowing from the inside of the element to the outside.

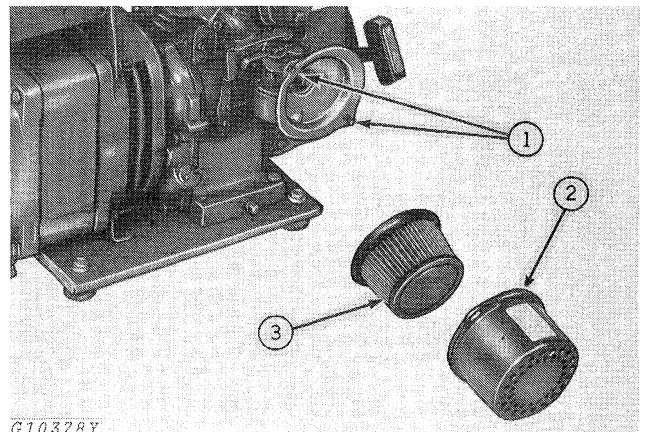
IMPORTANT: Never wash element in fuel oil, gasoline, or solvent. Do not oil element.

Replace the air cleaner.

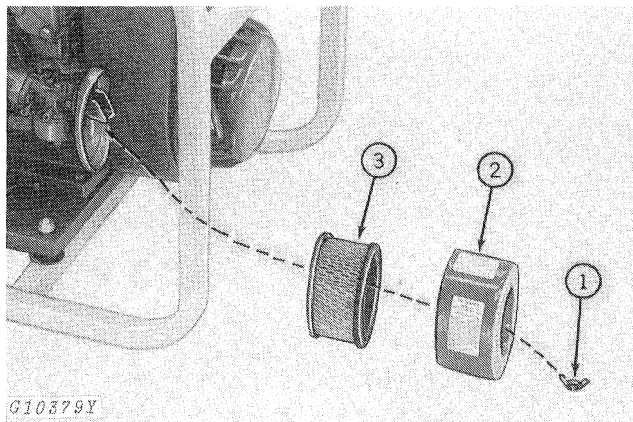
NOTE: Make sure all connections are tight when servicing air cleaner.

1750W

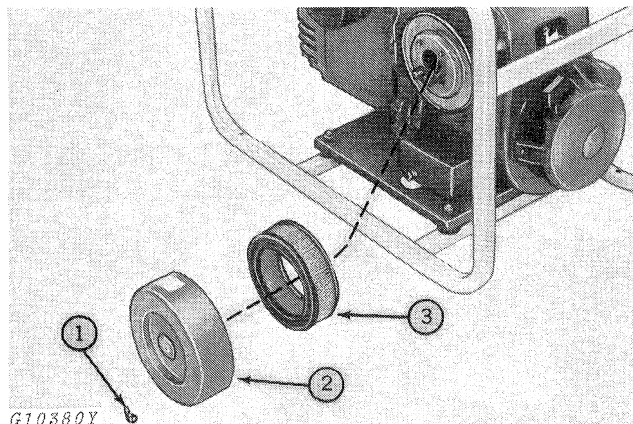
1. Loosen the two screws.
2. Turn the air cleaner cap counterclockwise and pull the cap off.
3. Remove the air filter element.



G10378Y
1750W



3000W

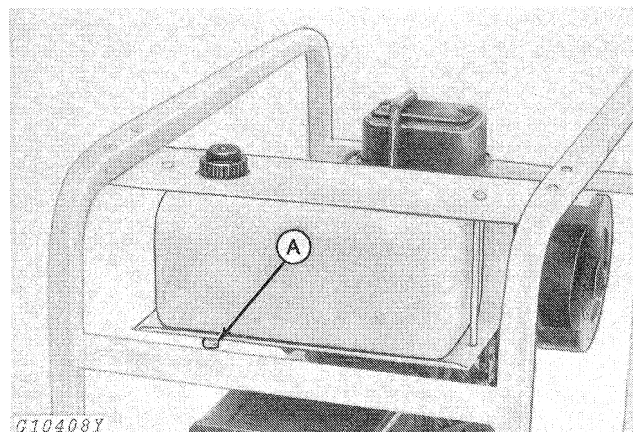


4000W and 5000W

3000W, 4000W and 5000W

1. Loosen the wing nut.
2. Pull the air cleaner cap off.
3. Remove the air cleaner element.

GAS TANK



CAUTION: Drain gas before transporting or working on the alternator.

On the 1750W Alternator remove the fuel line from the gas tank.

On the 3000W, 4000W and 5000W Alternators remove the fuel line from the gas shut-off valve or remove the valve by turning it counterclockwise.

A—Gas Shut-Off

SPARK PLUGS

Two things will cause a grounded electrical current through spark plugs - a heavy coating of carbon and a cracked porcelain insulator. If porcelain is cracked, replace the plug.

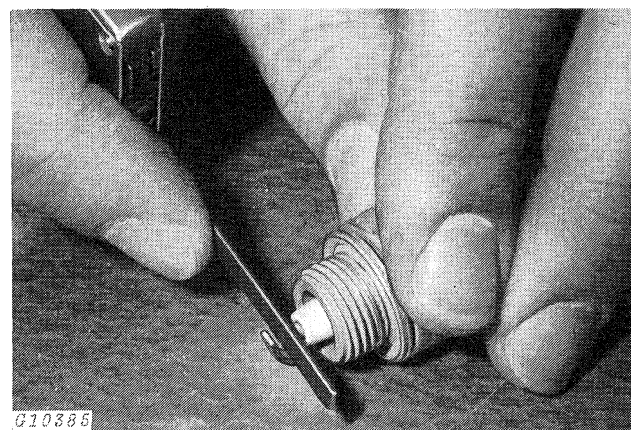
Reconditioning

Use an abrasive cleaner to remove combustion deposits. With clean air, blast away all abrasive material on plug.

IMPORTANT: DO NOT use a wire brush to clean plug because the insulator tip of the spark plug is harder than the bristles of the wire brush, and a conductive, metallic film is deposited on the insulator. The electrodes will mushroom and the threads may even be distorted.

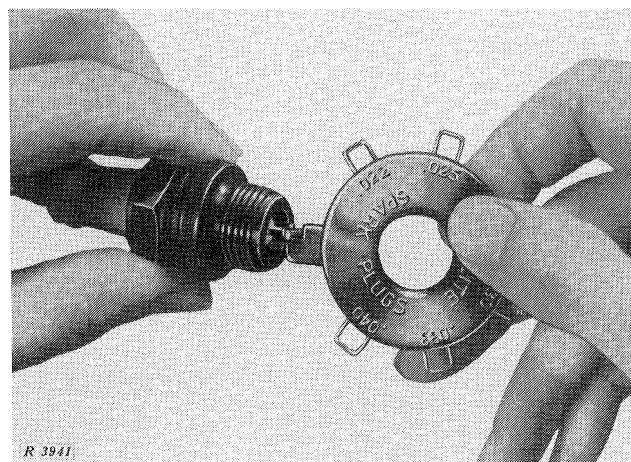


Filing the electrode flat and square will lower the amount of voltage it will take to make the plug spark. A round electrode will take more voltage to make a plug spark.



Check electrode gap with a round wire-type feeler gauge for a 0.030-inch (0.762 mm) clearance.

When adjusting the gap, bend only the outer electrode.





Trouble Shooting

Trouble	Possible Cause	Possible Remedy	Page
ALTERNATOR			
No output or low output.	Brushes worn excessively.	See your John Deere Dealer.	--
	Brushes sticking or broken brush spring.	See your John Deere Dealer.	--
	Dirty collector rings.	See your John Deere Dealer.	--
	Broken wire or loose connection.	See your John Deere Dealer.	--
	Faulty receptacle.	See your John Deere Dealer.	--
	Faulty capacitor in end bell.	See your John Deere Dealer.	--
ENGINE			
Engine fails to start.	No fuel in tank.	Fill tank with fuel.	4
	Gas shut-off valve closed.	Open valve.	5
	Obstruction in fuel cap vent.	Open vent in fuel tank cap.	--
	Water in fuel.	Drain tank.	--
	Engine over-choked.	Close fuel shut-off until engine pops.	--
	Improper carburetor adjustment.	See your John Deere Dealer.	--
	Faulty magneto.	See your John Deere Dealer.	--
	Spark plug fouled.	Clean spark plug.	17
	Spark plug porcelain cracked.	Replace spark plug.	17
	Poor compression.	See your John Deere Dealer.	--

Trouble	Possible Cause	Possible Remedy	Page
Engine knocks.	Carbon in combustion chamber.	See your John Deere Dealer.	--
	Loose or worn connecting rod.	See your John Deere Dealer.	--
	Loose flywheel.	See your John Deere Dealer.	--
	Worn cylinder.	See your John Deere Dealer.	--
Engine misses under load.	Spark plug fouled.	Clean and regap spark plug.	17
	Spark plug porcelain cracked.	Replace spark plug.	17
	Improper spark plug gap.	Regap spark plug.	17
	Improper carburetor adjustment.	See your John Deere Dealer.	--
	Improper valve clearance.	See your John Deere Dealer.	--
	Weak valve spring.	See your John Deere Dealer.	--
Engine lacks power.	Choke partially closed.	Open choke.	5-6
	Improper carburetor adjustment.	See your John Deere Dealer.	--
	Worn rings.	See your John Deere Dealer.	--
	Lack of oil.	Fill crankcase to proper level.	14
	Air cleaner dirty.	Clean air cleaner.	15-16
	Valves leaking.	See your John Deere Dealer.	--
Engine overheats.	Engine improperly timed.	See your John Deere Dealer.	--
	Carburetor improperly adjusted.	See your John Deere Dealer.	--
	Air flow obstructed.	Remove obstructions.	--
	Cooling fins clogged.	Clean cooling fins.	--
	Excessive load on engine.	Reduce load.	--
	Carbon in combustion chamber.	See your John Deere Dealer.	--
	Lack of lubrication.	Fill crankcase to proper level.	14
Engine surges or runs unevenly.	Fuel cap vent hole clogged.	Open vent hole.	--
	Governor parts binding.	See your John Deere Dealer.	--
	Carburetor parts binding.	See your John Deere Dealer.	--
	Intermittent spark at spark plug.	Check wires for poor connections.	--

20 *Trouble Shooting*

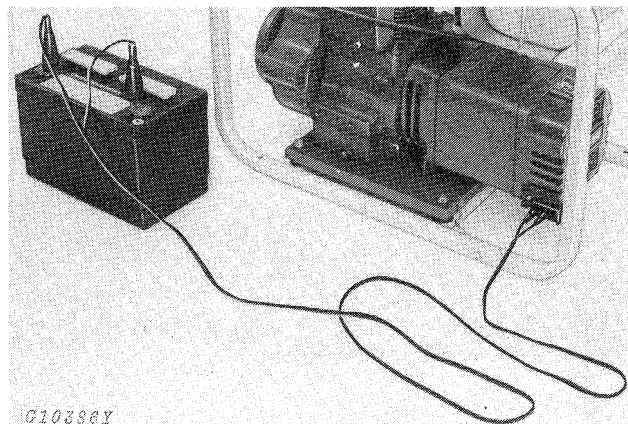
Trouble	Possible Cause	Possible Remedy	Page
Engine vibrates excessively.	Engine not securely mounted.	Tighten loose mounting bolts.	--
	Bent crankshaft.	See your John Deere Dealer.	--
Engine uses excessive oil.	Engine rpm too high.	See your John Deere Dealer.	--
	Oil level too high.	Check level, drain some oil if necessary.	13-14
	Oil filler cap loose or gasket damaged.	Replace gasket under cap and tighten cap securely.	--
	Breather element dirty.	Clean or replace element.	--
	Gaskets damaged.	See your John Deere Dealer.	--
	Valve guides worn.	See your John Deere Dealer.	--
	Cylinder wall worn or glazed.	See your John Deere Dealer.	--
	Piston rings and grooves worn.	See your John Deere Dealer.	--
	Piston fit undersized.	See your John Deere Dealer.	--
	Oil passages obstructed.	See your John Deere Dealer.	--
Oil seal leaks.	Oil seal hard and worn.	Replace seal.	--
	Crankshaft seal surface is worn undersize.	See your John Deere Dealer.	--
	New seal damaged upon installation.	See your John Deere Dealer.	--
	Bent crankshaft.	See your John Deere Dealer.	--
Breather passing oil.	Engine rpm too high.	See your John Deere Dealer.	--
	Loose oil fill cap or oil cap gasket damaged.	Install new gasket and tighten cap securely.	--
	Oil level too high.	Check oil level - drain excess oil if necessary.	13-14
	Rings not seated properly.	See your John Deere Dealer.	--



Attachments

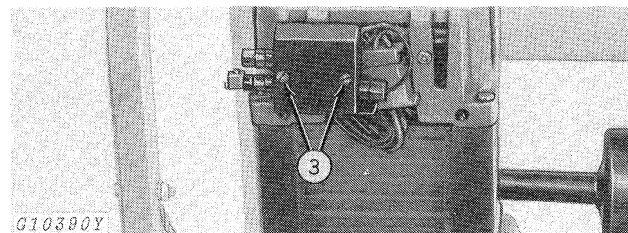
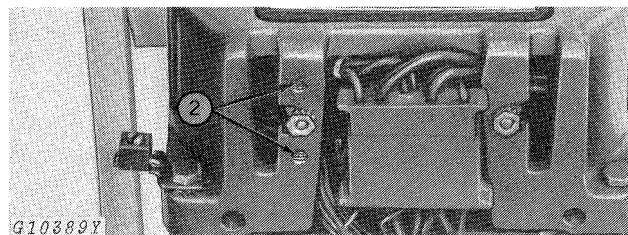
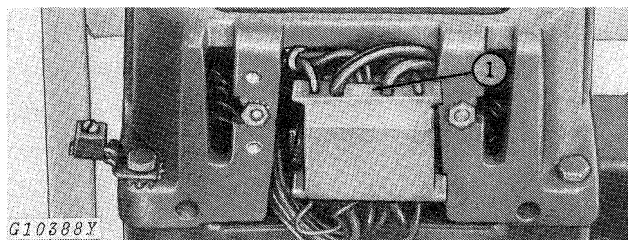
BATTERY CHARGER AND CABLES

A battery charger and cables are used for charging 12-volt batteries.



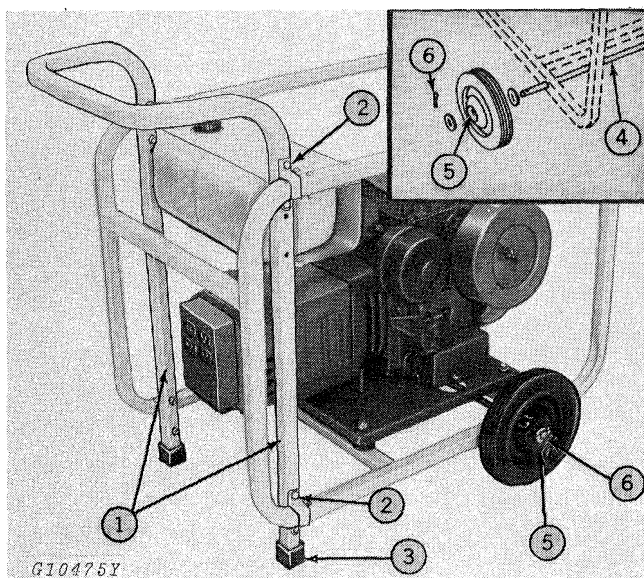
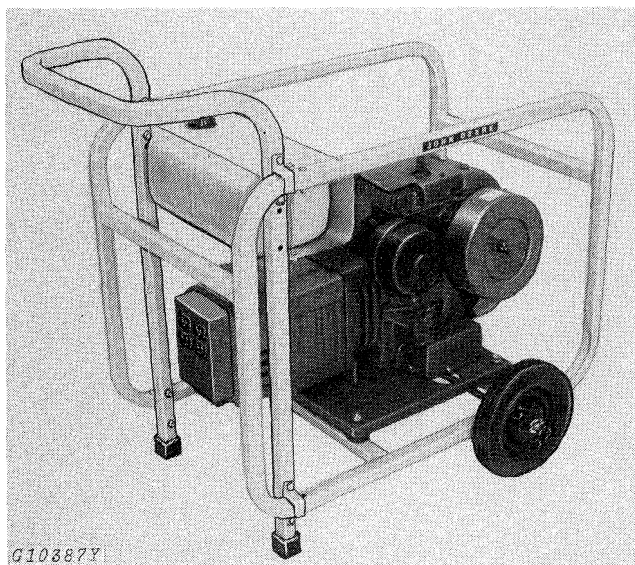
Assembly

1. Plug connector from charger into terminal No. 3 on harness. Be sure connector snaps into place.
2. Install charger on underside of end bell using two No. 10 x 1/2-inch pan-head screws.
3. Install charger cover using two No. 10 x 3/8-inch pan-head screws.



TWO-WHEEL DOLLY

The two-wheel dolly is used for transporting.



Assembly

1. Place the handle on the inside of the carrying frame and align so the carrying frame is positioned between the handle holes.
2. Install the clamps on the handle using eight 1/4-inch washers and eight 1/4 x 1-1/2-inch cap screws and lock nuts.
3. Install the caps on the bottom of the handle.
4. Install the axle on the frame.
5. Install the wheel on the axle with a flat washer installed on both sides of the wheel.
6. Install a 1/8 x 1-inch cotter pin on the axle.



Specifications

DESCRIPTION	1750W	3000W	4000W	5000W
Starting	Manual recoil	Manual recoil	Manual recoil	Manual recoil
Fuel tank capacity	2 qt (1.9 l)	6 qt (5.7 l)	6 qt (5.7 l)	6 qt (5.7 l)
Spark plug	Resistor-type	Resistor-type	Resistor-type	Resistor-type
Dry weight	70 lbs (31.8 kg)	115 lbs (52.2 kg)	180 lbs (81.7 kg)	205 lbs (93.0 kg)
Air cleaner	Paper	Paper	Paper	Paper
Crankcase capacity	21 ozs (0.62 l)	24 ozs (0.71 l)	52 ozs (1.53 l)	52 ozs (1.53 l)
Engine speed (full load)	3600 rpm	3600 rpm	3600 rpm	3600 rpm
Muffler	Lowtone	Lowtone	Lowtone	Lowtone
Fuel filter	Screen	Screen	Screen	Screen
ENGINE				
Fuel	Regular gasoline	Regular gasoline	Regular gasoline	Regular gasoline
Spark plug gap	0.030 (0.76 mm)	0.030 (0.76 mm)	0.030 (0.76 mm)	0.030 (0.76 mm)
Breaker point gap	0.020 (0.51 mm)	0.020 (0.51 mm)	0.020 (0.51 mm)	0.020 (0.51 mm)
Bore	2-5/8-in (6.67 cm)	3-1/16 in (7.78 cm)	3-5/16 in (8.41 cm)	3-5/16 in (8.41 cm)
Stroke	1-15/16 in (4.92 cm)	2-17/32 in (6.42 cm)	2-3/4 in (6.99 cm)	2-3/4 in (6.99 cm)
Displacement	10.49 cu in (172.06 cm ³)	18.65 cu in (305.52 cm ³)	23.70 cu in (388.37 cm ³)	23.70 cu in (388.37 cm ³)
Compression ratio	8.13:1	6.10:1	6.70:1	6.70:1
Carburetor type	Float	Float	Float	Float
Governor	Mechanical adjust	Mechanical adjust	Mechanical adjust	Mechanical adjust
Horsepower	4	8	10	14
ALTERNATOR				
Watts	1750	3000	4000	5000
Volts	125	125,250	125,250	125,250
Receptacles	Two duplex 3-prong grounded	Two duplex 3-prong grounded	Two duplex 3-prong grounded	Two duplex 3-prong grounded
Cycle	60	60	60	60
Current	AC	AC	AC	AC

(Specifications and design subject to change without notice)

MISCELLANEOUS POWER REQUIREMENTS (WATTAGE)

Item	Approximate Wattage
Attic Fan	370
Broiler	1325
Brooders	500-1000
Clothes Dryer	4600
Dairy Utensil Sterilizer (25 cows)	1000-1600
Dishwasher (Conventional)	290
Dishwasher (Heat Unit)	1155
Disposer	320
Drills, 1/4-inch to 1/2-inch	125-700
Egg Cooler	200-300
Fan	75-300
Food Freezer	300-800
Furnace Fan	225
Grinders	700-1000
Heater, Portable	1000-2000
Milk House, Heating	660-2500
Oil Burner	245
Pasturizer	1500
Radio	90
Range	3000-12000
Refrigerator (Conventional)	200-200
Refrigerator (Combination)	250-600
Sanders	40-1000
Saws	400-1500
Stock Tank Heater	200-1500
Sump Pump	250-500
Television	280
Washer (Automatic)	1000
Washer (Conventional)	250-640
Water Heater	5000
Water Pump (Shallow Well)	250-1000
Water Pump (Deep Well)	250-1000

Single Phase Motors - 115/230 Volts

Horsepower	Approximate Wattage	
	Starting	Continuous
1/4 (0.19 kW)	2500	390
1/3 (0.23 kW)	2900	358
1/2 (0.4 kW)	4360	525



Serial Number

When ordering parts, always bring with you the model and serial numbers as given on the serial number plate.

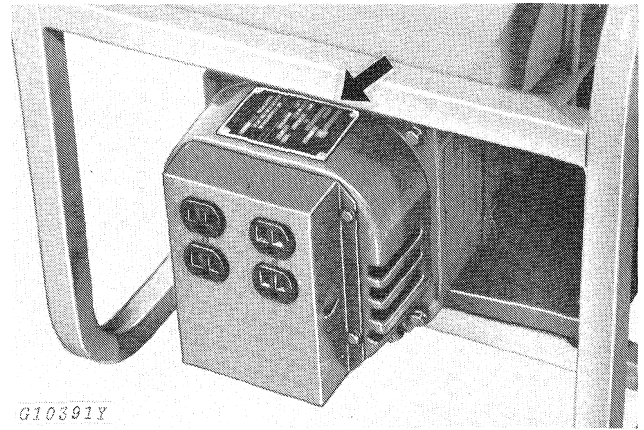
Model No. (1750W, 3000W,
4000W, 5000W) _____

Alternator Serial No. _____

Engine Serial No. _____

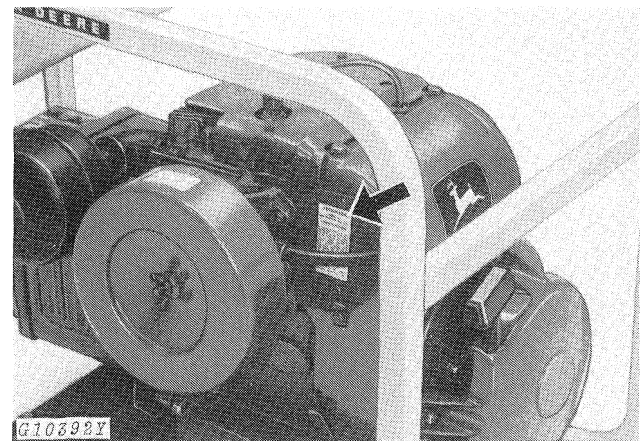
Date of Purchase _____

(To be filled in by purchaser)



G10391Y

Alternator Serial Number



G10392Y

Engine Serial Number Plate

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Title	Order No.	Qty.	Price Each
Parts Catalog - 1750W, 3000W, 4000W and 5000W Alternators for Portable Power	PC-1490		
Operator's Manual - 1750W, 3000W, 4000W and 5000W Alternators for Portable Power	OM-GA11166		

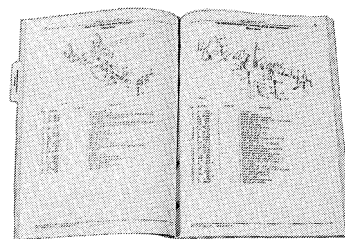
NOTE: If you want manuals or catalogs for equipment not shown on this list, list the model number, serial number and name of the equipment below.

FMO Manual - Tractors	FMO-101B		
FMO Manual - Tillage	FMO-111B		
FMO Manual - Planting	FMO-121B		
FMO Manual - Crop Chemicals	FMO-131B		
FMO Manual - Hay & Forage Harvesting	FMO-141B		
FMO Manual - Combine Harvesting	FMO-151B		
FMO Manual - Preventive Maintenance	FMO-161B		
FMO Manual - Machinery Management	FMO-171B		
FMO Manual - Machine Safety	FMO-181B		
FMO Set of 9 Manuals above	FMO-394 Set		
FOS Manual - Hydraulics	FOS-10B		
FOS Manual - Electrical Systems	FOS-20B		
FOS Manual - Engines	FOS-30B		
FOS Manual - Power Trains	FOS-40B		
FOUR FOS MANUALS (above)	FOS-90 Set		
FOS Manual - Shop Tools	FOS-51B		
FOS Manual - Welding	FOS-52B		
FOS Manual - Belts and Chains	FOS-53B		
FOS Manual - Bearings and Seals	FOS-54B		
FOS Manual - Tires and Tracks	FOS-55B		
FOS Manual - Mowing and Spraying Equipment	FOS-56B		
FOS Manual - Air Conditioning	FOS-57B		
FOS Manual - Fuels, Lubricants and Coolants	FOS-58B		
FOS Manual - Fiber Glass	FOS-59B		
FOS Manual - Fasteners	FOS-60B		
SET OF TEN FOS MANUALS FOS-51B, 52B, 53B, 54B, 55B, 56B, 57B, 58B, 59B and 60B	FOS-70 Set		
SET OF ALL FOURTEEN FOS MANUALS	FOS-180 Set		

Illinois State Residents add 5% for ROT.

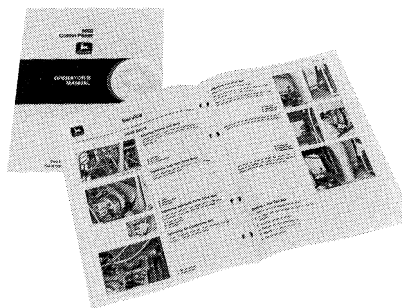
Check or money order in U.S. dollars enclosedTotal
(Do not send cash or stamps)

PARTS CATALOG



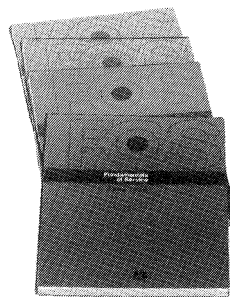
A parts catalog containing exploded view illustrations and lists of all parts is useful when purchasing service parts. Helps identify the correct parts. Useful in assembling and disassembling.

OPERATOR'S MANUAL



An extra copy of the operator's manual may be important if the copy furnished with your machine is misplaced.

FMO AND FOS MANUALS



These are basic manuals covering most all types and makes of agricultural machinery. FMO manuals tell you how to *operate* machines; FOS manuals tell you how to *service* machines. Each manual starts with basic theory and is fully illustrated with colorful diagrams and photographs. Both the "whys" and "hows" of adjustments and repairs are covered in this reference library.

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