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ITEM # GENMAX1500
1500 SURGE WATTS / 900 RUNNING WATTS
2-CYCLE PORTABLE GENERATOR
INSTRUCTION MANUAL

READ ALL INSTRUCTIONS AND WARNINGS BEFORE USING THIS PRODUCT.

This manual provides important information on proper operation & maintenance. Every effort has been made to ensure the accuracy of this manual. These instructions are not meant to cover every possible condition and situation that may occur. We reserve the right to change this product at any time without prior notice.

HAVE QUESTIONS OR PROBLEMS? CONTACT CUSTOMER SERVICE

If you experience a problem or need parts, visit our website http://www.buffalotools.com or call customer service at 1-866-460-9436, Monday-Friday, 8 AM - 4 PM Central Time. A copy of the sales receipt is required. IF THERE IS ANY QUESTION ABOUT A CONDITION BEING SAFE OR UNSAFE, DO NOT OPERATE THIS PRODUCT!

FOR CONSUMER USE ONLY – NOT FOR PROFESSIONAL USE.

KEEP THIS MANUAL, SALES RECEIPT & APPLICABLE WARRANTY FOR FUTURE REFERENCE.

ATTENTION: 2-CYCLE OIL AND GASOLINE IS NOT INCLUDED WITH THE GENERATOR AND MUST BE ADDED BEFORE FIRST USE.

ATTENTION: THIS GENERATOR IS NOT INTENDED TO POWER MEDICAL DEVICES OR LIFE SUPPORT APPLIANCES.

ATTENTION: FOLLOW ENGINE BREAK-IN PROCEDURE FOR FIRST 20 HOURS OF USE.

ATTENTION: DO NOT EXCEED MAX WATTAGE CAPACITY, OTHERWISE DAMAGE CAN OCCUR TO GENERATOR AND/OR APPLIANCES. FOLLOW WATTAGE GUIDE TO DETERMINE PROPER STARTING & RUNNING WATTS.

ITEM # GENMAX1500 1500 Surge Watts / 900 Running Watts

This is a 2-cycle generator which requires 50:1 gasoline-to-oil ratio

FEATURES:

- 1500 Surge Output / 900 Running Watts
- 120V Operation
- 2.0 HP Engine, 2 Stroke, 3600 RPM
- Displacement (CC): 72
- UL Listed Electrical Components
- Engine Shut Off Switch
- Spark Plug Model F6TC
- 1-12V DC Outlet
- 2-120V AC Outlets
- 1 Gallon Max Capacity Fuel Tank
- EPA Approved
- Decibel Rating < 65 db at 0% load measured at 24 feet
- Run time = 8 hrs @ 50% load Gasoline
- Fuel type: 50:1 gasoline-to-oil ratio
- High Altitude Use: This generator is not recommended for high altitude use above 3,000 feet.
- If you are using a generator at 3,000 feet above sea level, the generator may not function properly because of air flow getting through the carburetor.

2 YEAR LIMITED EMISSION-RELATED WARRANTY

THIS ENGINE MEETS U.S. EPA EMISSION STANDARDS UNDER 40 CFR 1054.625 .The emission-related limited warranty is valid for two (2) years. Keep the purchase receipt and mail in the product registration card for proof of purchase. Buffalo Corp limits emission-related warranty repairs to authorized service centers for owners located within 100 miles of an authorized service center. For owners located more than 100 miles from an authorized service center, Buffalo Corp will, in its sole discretion, either pay for shipping costs to and from an authorized service center, provide for a service technician to come to the owner to make the warranty repair, or pay for the repair to be made at a local non-authorized service center.
The provisions of this paragraph apply only for the contiguous states, excluding the states with high-altitude areas identified in 40 CFR part 1068, Appendix III.
To exercise this warranty, DO NOT RETURN TO RETAILER. Instead, call Customer Service toll free at 1-866-460-9436 (email address info@buffalotools.com) and you will be instructed on where to take the engine for warranty service. Take the generator and proof of purchase (your receipt) to the repair facility recommended by the Customer Service Representative. The warranty does not extend to generators damaged or affected by fuel contamination, accidents, neglect, misuse, unauthorized alterations, use in an application for which the product was not designed and any other modifications or abuse.

1 YEAR LIMITED WARRANTY **(30 Day Limited Warranty for Commercial and Rental Purpose)**

Generators are warranted to be free from defects in materials and workmanship for a period of 1 YEAR from date of original purchase. Buffalo Corp. is not liable for any indirect, incidental or consequential damages from the sale or use of this product. Any implied warranties are limited to 1 YEAR as stated, or as otherwise stated, in this written limited warranty. Some states do not allow the exclusion or limitation of incidental or consequential damages. Some states do not allow limitation on the length of an implied warranty. Buffalo Corp will repair or replace, at its discretion, any part that is proven to be defective in materials or workmanship under normal use during the 1 YEAR warranty period. Warranty repairs or replacements will be made without charge for parts or labor. Parts replaced during warranty repairs will be considered as part of the original product and will have the same warranty period as the original product. This warranty gives you specific legal rights, and you may have other rights that vary state to state

RECOGNIZE SAFETY SYMBOLS, WORDS AND LABELS

What You Need to Know About Safety Instructions

Warning and Important Safety Instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when operating or cleaning tools and equipment.

Always contact your dealer, distributor, service agent or manufacturer about problems or conditions you do not understand.

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER — DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING — WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION — CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION — CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Legal Requirements:
Federal and/or State Occupational Safety and Health Administration (OSHA) regulations, local codes, and/or ordinances may apply to the intended use of this generator. Consult a qualified electrician, electrical inspector, and/or the local agency having jurisdiction. Some areas require generators to be registered with local utility companies. Additional regulations may apply if this generator will be used at a construction site.

⚠ DANGER

CARBON MONOXIDE

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

- NEVER use a generator inside homes, garages, crawlspaces, or other partly enclosed areas. Deadly levels of carbon monoxide can build up in these areas. Using a fan or opening windows and doors does NOT supply enough fresh air.
- ONLY use a generator outside and far away from windows, doors, and vents. These openings can pull in generator exhaust.

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

IMPORTANT SAFETY INSTRUCTIONS

STOP!

Before using this generator and if you have any questions regarding the hazard and safety notices listed in this manual and/or on this generator, call 1-866-460-9436, Monday - Friday, 8 AM - 4 PM Central Time.

⚠ DANGER

Carbon Monoxide Gas: When in operation, the exhaust from this generator contains poisonous carbon monoxide gas. Carbon monoxide gas is both odorless and colorless AND may be present even if you do not see or smell gas. Breathing this poison gas can lead to headaches, dizziness, drowsiness, loss of consciousness and eventually death.

• Use this generator ONLY outdoors in non-confined areas.
• Keep at least several feet of clearance on all sides to allow proper ventilation for this generator.

⚠ DANGER

Powerful Voltage: This generator produces powerful voltage, which can result in electrocution.

• ALWAYS ground this generator before using it. (See "Ground the Generator" section in this manual).
• Only electrical devices should be plugged into this generator, either directly or with an extension cord. NEVER connect a building electrical system to this generator without a qualified electrician. ***Doing so voids your warranty.*** Such connections must isolate generator power from utility power and comply with local electrical laws and codes. Failure to comply can create a back feed into utility lines creating an electrocution hazard, which may result in serious injury or death to utility workers. Such a back feed may cause this generator to explode, burn and create fires when utility power is restored.
• Do not use this generator in wet conditions (rain, snow, active sprinkler system, wet hands, etc.). Always keep this generator dry and operate it with dry hands.
• Do not touch bare wires or outlets (receptacles).
• Do not allow children or non-qualified persons to operate this generator.

⚠ DANGER

High Temperatures: This generator produces heat when in operation. Temperatures near the exhaust can exceed 150 Degrees Fahrenheit (65 Degrees Celsius).

• Do not touch hot surfaces. Observe all warning placards on this generator denoting hot surfaces.
• Allow this generator to cool for several minutes after use before touching the engine, muffler or other areas that are hot during operation and before storing indoors.
• Hot exhaust may ignite some materials. Keep flammable materials away from this generator.
• Keep at least several feet of clearance on all sides of this generator during operation. Do not enclose this generator in any structure.

⚠ WARNING

Usage: Avoid the use of extension cords if possible. If you choose to use them, be sure they are sized adequately to handle the flow of electricity. An undersized cord can overheat, short out and cause a fire.

⚠ CAUTION

Usage: Misuse of this generator can damage it or shorten its life.

• Use this generator only for its intended purpose.
• Operate this generator only on a dry, level surface.
• Allow this generator to run for several minutes before connecting any electrical devices.
• Promptly turn off any malfunctioning devices and disconnect them.
• Do not operate an excessive number of electrical devices in excess of the wattage capacity of this generator.
• Do not turn on electrical devices until *after* they are connected to this generator.
• Turn off all connected electrical devices before stopping this generator.

⚠ DANGER

Flammable liquid gas under pressure. Can form explosive mixtures with air. May cause frostbite. **In Case Of Inhalation**: Persons suffering from lack of oxygen should be removed to fresh air. If victim is not breathing, administer artificial respiration. If breathing is difficult, administer oxygen. Obtain prompt medical attention. **In Case Of Eye Contact**: Contact with liquid or cold vapor can cause freezing of tissue. Gently flush eyes with lukewarm water. Obtain medical attention immediately. **In Case Of Skin Contac**t: Contact with liquid or cold vapor can cause frostbite. Immediately warm affected area with lukewarm water not to exceed 105°F (40°C). **Fire And Explosion Hazards:** Propane is easily ignited. It is heavier than air, therefore, it may collect in low areas or travel along the ground where an ignition source may be present. Pressure in a container can build up due to heat, and it may rupture if pressure relief devices should fail to function. **Storage:** Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling or being knocked over. Protect cylinders from physical damage; do not drag, roll, slide or drop. Use a suitable hand truck for cylinder movement. Post "No Smoking or Open Flames" signs in the storage areas. There should be no sources of ignition. All electrical equipment should be explosion proof in the storage and use areas. Storage areas must meet national electric codes for class 1 hazardous areas.

⚠ WARNING

Usage: Consult a physician(s) before using this generator if using a pacemaker. Electromagnetic fields in close proximity to a heart pacemaker could cause a pacemaker to malfunction or fail. Caution is necessary when near the engine's recoil starter.

⚠ CAUTION

Usage: Prolonged exposure to high noise levels can be hazardous to hearing. Always wear ANSI-approved hearing protection when operating or working around the generator when it is running.

⚠ WARNING

THIS GENERATOR PRODUCES HEAT WHEN RUNNING. TEMPERATURES NEAR EXHAUST CAN EXCEED 150°F. (65° C) DO NOT TOUCH HOT SURFACES. PAY ATTENTION TO WARNING LABELS ON THE GENERATOR DENOTING HOT PARTS OF THE MACHINE. ALLOW GENERATOR TO COOL AFTER USE BEFORE TOUCHING ENGINE OR AREAS WHICH HEAT DURING USE.

⚠ WARNING

EXHAUST CONTAINS POISONOUS CARBON MONOXIDE GAS THAT CAN BUILD UP TO DANGEROUS LEVELS IN CLOSED AREAS. BREATHING CARBON MONOXIDE CAN CAUSE UNCONSCIOUSNESS OR DEATH. Never run the generator in a closed or even partly closed area where people may be present.

⚠ WARNING

THE GENERATOR IS A POTENTIAL SOURCE OF ELECTRICAL SHOCK IF NOT KEPT DRY. Do not expose the generator to moisture, rain or snow. Do not operate the generator with wet hands. READ OWNER'S MANUAL CAREFULLY BEFORE OPERATION.

⚠ DANGER

IMPROPER CONNECTIONS TO A BUILDING CAN ALLOW ELECTRICAL CURRENT TO BACKFEED INTO UTILITY LINES, CREATING AN ELECTROCUTION HAZARD. Connections to a building must isolate generator power from utility power and comply with all applicable laws and electrical codes.

⚠WARNING

GASOLINE IS HIGHLY FLAMMABLE AND EXPLOSIVE. YOU COULD BE BURNED OR SERIOUSLY INJURED IF THE GASOLINE IS IGNITED. Before refueling, stop the engine and keep heat, sparks and flame away. Handle fuel only outdoors. Do not fill the fuel tank above the upper limit line. Wipe up spills immediately.

In addition to the previously described safety information, familiarize yourself with all safety and hazard notices on this generator.

⚠ DANGER POISONOUS GAS

Generator exhaust contains toxic carbon monoxide gas. Breathing exhaust can cause loss of consciousness and shortness of breath. NEVER operate generator in poorly ventilated areas.

⚠ WARNING

Risk of electric shock. Do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

⚠ WARNING! RISK OF ELECTRIC SHOCK

This generator produces high voltage.
Always ground properly before use.
Do not connect to any building electrical system.
Never use in rainy or wet conditions.
Never touch bare wires or receptacles.
Never allow children or non-qualified person to operate.

⚠ 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.

⚠ CAUTION! HOT EXHAUST

DO NOT TOUCH

⚠ CAUTION!
HIGH TEMPERATURE
DO NOT TOUCH

PACKAGE CONTENTS

The following items are supplied with this Model GENMAX1500 Portable 2-Cycle Generator. Verify that all items are included.

STOP!

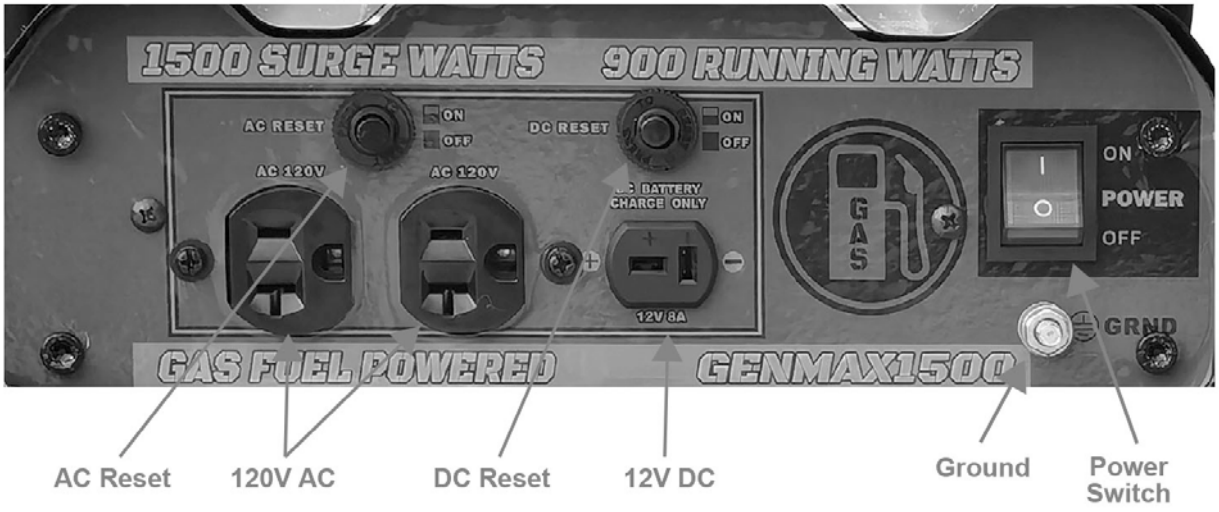
If there are missing items, **call 1-866-460-9436, Monday - Friday, 8 AM - 4 PM Central Time** for customer service. **DO NOT RETURN THIS GENERATOR TO THE RETAILER.**

Item List:	
	Set of 2 DC connector wires for charging 12 Volt automotive-type batteries
	Spark plug remover

	Screwdriver

GENERATOR COMPONENTS

Observe the locations and functions of the various components and controls of this generator.



To prevent electrical shock from faulty appliances, the generator should be grounded. Connect a length of heavy wire between the ground terminal and the ground source.

Consult with a qualified electrician to ensure compliance with local electrical codes.

ATTENTION:

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

PREPARING THE GENERATOR FOR USE

Using this Generator for the First-Time

STOP! **CAUTION**

The following section describes the required steps for preparing this generator for the first use. Failure to correctly perform these steps can damage this generator and/or shorten its life. If still unsure about how to perform any of these steps after reading this section, call 1-866-460-9436 Monday - Friday, 8 AM - 4 PM Central Time for customer service.

If this generator is being used for the first time, the following few steps are required to prepare it for operation:

Step 1 - Before Use, Mix 1 Gallon Gas With 2.5 oz. 2-Cycle Engine Oil (which is a 50:1 ratio) In Separate Container, Then Pour Gas/Oil Mixture Into Fuel Tank.

This generator is equipped with a 2-stroke engine and is therefore powered by a fuel mixture of gasoline and 2-stroke oil. Use only a mix of unleaded gasoline and 2-stroke oil in a ratio of 50:1. The generator is delivered without fuel mixture and must be filled prior to start-up operation. **Attention!** Always add fuel mixture when the generator is switched off. Please ensure that the fuel switch is in the “OFF“ position. Open the tank cover and fill it with max. 1 gallon of fuel mixture while ensuring that the fuel filter is inserted. Do not overfill the tank. Please note that fuel can expand with warm temperatures. Close the tank lid carefully.

Attention! Do not smoke, keep fire and open flame away while filling the fuel tank!

Pre-Operation Check List

Step 1 CHOKE VALVE GRIP is at CHOKE (CLOSED TO START) position. (The generator may be hard to start if CHOKE VALVE GRIP is at OPEN position.)

Step 2 Make sure GROUND TERMINAL is properly grounded.

Step 3 AC OUTPUT no load connected.
Disconnect all electrical loads from the generator set before starting the engine. The generator may be hard to start if a load is connected.

Step 4 DC OUTPUT no load connected.

Step 3 - Ground the Generator

⚠ WARNING

Failure to properly ground this generator can result in electrocution.

Ground this generator by tightening the grounding nut against a grounding wire as illustrated in Figure 3. A No. 12 AWG (American Wire Gauge) stranded copper wire is generally an acceptable grounding wire. The other end of this grounding wire should be connected to a copper or brass grounding rod that is driven into the earth.

Grounding codes can vary by location. Contact a local electrician for information on grounding regulations for your area.

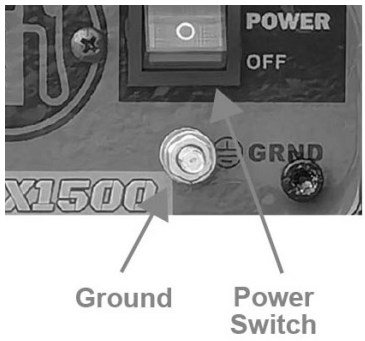


Figure 3 - Attaching the Grounding Wire to this Generator

Ground this generator by tightening the grounding nut against a grounding wire as previously illustrated in Figure 3. A generally acceptable grounding wire is a No. 12 AWG (American Wire Gauge) stranded copper wire. The other end of this grounding wire should be connected to a copper or brass grounding rod that is driven into the earth. Grounding codes can vary by location. Contact a local electrician for information on grounding regulations for your area.

STARTING THE GENERATOR

STOP!

Before starting this generator, confirm that all the steps in the section titled, "Preparing the Generator for Use," of this manual have been correctly completed. If unsure about how to perform any of these steps, call 1-866-460-9436, Monday - Friday, 8 AM - 4 PM Central Time for customer service.

⚠ CAUTION

Disconnect all electrical loads from this generator before attempting to start.

Step 1 Make sure unleaded gasoline fuel has been added to the tank.
Step 2 Turn POWER SWITCH to ON position
Step 3 Move Choke Lever to CLOSED TO START position.
Step 4 Pull the STARTER GRIP slowly until resistance is felt and then pull rapidly. After the engine started, return the STARTER GRIP gently to prevent damage to the starter or housing. DO NOT allow the starter grip to snap back. Return it slowly by hand.
Step 5 Turn the CHOKE LEVER to OPEN TO RUN position.

Choke Rod

The choke is used to provide an enriched fuel mixture when starting a cold engine. It can be opened and closed by operating the choke rod manually. Pull the rod out toward CLOSED to enrich the mixture for cold starting

USING THE GENERATOR

After the engine has been running for several minutes, electrical devices may be connected to this generator.

AC Usage

Electrical devices running on AC current may be connected according to their wattage requirements. The rated (running) and surge wattage:

GENMAX1500 Rated (Running) Wattage	900
GENMAX1500 Surge Wattage	1500

The *rated (running) wattage* corresponds to the maximum wattage a generator can output on a continuous basis.

The *surge wattage* corresponds to the maximum amount of power a generator can output for a short time. Many electrical devices, such as a refrigerator, require short bursts of extra power for starting and stopping fan motors, etc., in addition to their listed rated wattage. Motorized devices typically require more than their rated wattage for startup. The surge wattage ability of a generator allows for this extra power requirement.

The total running wattage requirement of the electrical devices connected to a generator should not exceed the rated wattage of the generator itself. To calculate the total wattage requirement of the electrical devices to be connected, look up the rated (running) wattage of each device and add these numbers together to find the total wattage that all of the devices together will draw from the generator. If the total wattage of the selected devices exceeds the rated wattage of the generator, DO NOT connect all of the devices. Select a combination of the electrical devices that will have a total wattage less than or equal to the rated wattage for the generator, i.e., no more than 1800 watts for this generator.

⚠ CAUTION

This generator can run at its surge wattage capacity for only a short time. Connect electrical devices requiring a rated (running) wattage equal to or less than the rated wattage of this generator. Never connect devices requiring a rated wattage equal to the surge wattage of a generator.

A device's rated (running) wattage should be listed somewhere on the device itself and/or in its manual. If the wattage specification for a device is not available, the wattage can be calculated by multiplying the Voltage requirement (120 or 240) by the Amperage drawn.
Watts = Volts x Amperes
Or, the wattage required by a device can be estimated by using the following chart (see Figure 7). The chart provides only estimates and it is better to know the exact wattage of each electrical device to be powered by this generator.

Electrical Device	Rated (Running) Watts	Additional Surge Watts
box fan	300	600
clock radio AM/FM	300	0
coffee maker	1500	0
computer w/17 inch monitor	800	0
deep freezer	500	500
electric drill (1/2 HP)	1000	1000
DVD/CD player or VCR	100	0
garage door opener (1/2 HP)	480	520
light bulb (75 watt)	75	0
microwave oven (1000 watt)	1000	0
quartz halogen work light	1000	0
security system	180	0
electric stove - single element	1500	0
television (27 inch color)	500	0
window fan	300	600

Figure 7 - Estimated wattage requirements for common electrical devices.

Connect electrical devices to this generator according to the following procedure:

1. Allow the engine to run for several minutes after it has been started.

2. Confirm that the electrical device is switched off prior to plugging it into this generator.

⚠ CAUTION

Connect only electrical devices that are in good working order. Faulty devices or power cords present the risk of electrical shock. Immediately turn off and disconnect any device that commences to operate abnormally, sluggish or abruptly stops. Determine if the problem was the device or the rated load capacity of this generator has been exceeded.

NOTE: While this generator is running, power is available from either the standard 120 Volt outlets or the 12 Volt DC outlet. Both 120 Volts and 12V can be simultaneously drawn from this generator.

3. Turn on the connected electrical devices beginning with the device with the highest rated wattage requirement and then each additional device with the next lower rated wattage requirement.

⚠ CAUTION

Do not connect 50Hz or 3-phase loads to this generator.

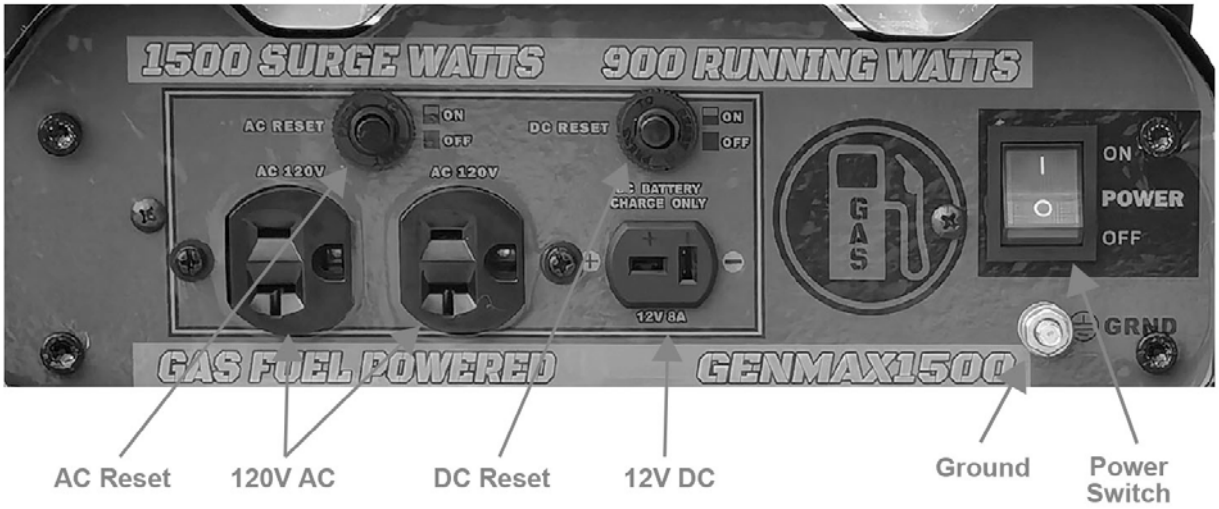


Figure 8 - Outlets available on this generator

SOME NOTES ABOUT POWER CORDS

Long or thin cords can require more wattage from a generator to power an electrical device. Figure 9 shows the recommended cords according to the power requirement of the electrical device. When using cords that exceed these specifications, allow for the electrical device to have a slightly higher rated wattage requirement.

Device Requirements			**Max. Cord Length (ft) by Wire Gauge**				
Amps	Watts (120V)	Watts (240V)	#8 wire	#10 wire	#12 wire	#14 wire	#16 wire
2.5	300	600	NR	1000	600	375	250
5	600	1200	NR	500	300	200	125
7.5	900	1800	NR	350	200	125	100
10	1200	2400	NR	250	150	100	50
15	1800	3600	NR	150	100	65	NR
20	2400	4800	175	125	75	50	NR
25	3000	6000	150	100	60	NR	NR
30	3600	7200	125	65	NR	NR	NR
40	4800	9600	90	NR	NR	NR	NR

NR = Not Recommended.

Figure 9 - Maximum Extension Cord Lengths by Power Requirement

DC Usage

⚠ CAUTION

The DC outlet is only for recharging 12 Volt automotive-type batteries. Do not connect any other device to this outlet.

⚠ CAUTION

Use this generator only for recharging 12 Volt batteries. NEVER attempt to jumpstart a car with this generator.

⚠ DANGER

Failing to use the correct procedure can cause a battery to explode, seriously injuring anyone nearby. Keep heat, sparks, flame and smoking materials away from the battery.

To connect 12 Volt batteries to the DC outlet:

1. Connect the red charging wire to the positive terminal of the battery and the black charging wire to the negative terminal of the battery.
2. Connect the plug end of the wire to the 12V DC outlet on this generator.
3. Start this generator.
4. When disconnecting, always disconnect the wires from this generator first to avoid a spark.

⚠ DANGER

Storage batteries emit highly explosive hydrogen gas when charged.
Batteries also contain acid, which can cause severe chemical burns.

- Do not allow open flames or cigarettes nearby for several minutes after charging a battery.
- Always wear protective goggles and rubber gloves when charging a battery.
    - If battery acid gets on the skin, flush with water.
    - If battery acid gets in the eyes, flush with water and immediately call a physician.
    - If battery acid is swallowed, drink large quantities of milk and immediately call a physician.

STOPPING THE GENERATOR

To stop this generator:

1. Turn off all connected electrical devices and then unplug them.
2. Allow this generator to run for several more minutes with no electrical devices connected to help stabilize the temperature of this generator.
3. Turn off the engine switch.

⚠ WARNING

Allow this generator to cool down before touching areas that become hot during operation.

MAINTENANCE/CARE

Proper routine maintenance of this generator is essential for safe, economical, and trouble-free operation. It will help prolong the life of this generator as well as help reduce air pollution. Perform maintenance checks and procedures according to the schedule in Figure 10.

STOP!

If you have questions about maintenance procedures described in this manual, **call 1-866-460-9436 , Monday - Friday, 8 AM - 4 PM Central Time.**

⚠ CAUTION

Never perform maintenance procedures while this generator is running. Allow this generator to cool before commencing any maintenance procedures. Keep heat, sparks and flame away.

⚠ WARNING

Improper maintenance and/or failure to correct any problems prior to operating this generator can cause a malfunction which could cause death or serious injury. Always follow the inspection and maintenance recommendations and schedules in this manual.

Recommended Maintenance Schedule

		Each Use	Every Month or Each 20 Hrs	Every 3 Months or Each 50 Hrs	Every 6 Months or Each 100 Hrs	Every Year or Each 300 Hrs
Air Filter	Check	X				
	Clean			X		X
Fuel Filler	Clean				X	
Spark Plug	Check/Clean			X		

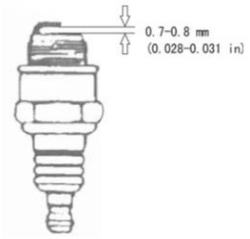
Figure 10 - Recommended maintenance schedule

Cleaning the Generator

Always try to use this generator in a cool dry place. If this generator becomes dirty, the exterior can be cleaned with a damp cloth, soft brush, vacuum and/or pressurized air. Never clean this generator with a bucket of water and/or a hose as water can get inside and cause a short circuit or corrosion. Never use gasoline to clean parts of this generator.

Spark Plug Maintenance

The spark plug is essential for proper engine operation. The spark plug should be intact, free of deposits, and properly gapped. A bad or incorrectly installed spark plug can cause engine damage.



To inspect the spark plug:

1. Remove the spark plug by pulling on the spark plug cap.
2. Unscrew the spark plug from this generator by using the included spark plug wrench.
3. Inspect the spark plug. If it is cracked and/or chipped, install a new spark plug. A F6TC spark plug is recommended.
4. Measure the spark plug electrode gap with a gauge. The gap should be 0.028-0.031in (0.7-0.8mm). (See Figure 9.)
5. If re-using the spark plug, use a wire brush to clean any dirt from around the spark plug base and then re-gap the spark plug.
6. Screw the spark plug back into place on this generator by using the included spark plug wrench.
7. Replace the spark plug cap.

Cleaning the Air Filter

Routine maintenance of the air filter helps maintain proper airflow to the carburetor. Occasionally verify that the air filter is free of excessive dirt. The air filter will require more frequent cleaning when operating this generator in extremely dusty areas.

To clean the air filter, remove the foam filter element from the generator and wash it in warm water and household dish detergent. Thoroughly rinse and dry. Pour a small amount of motor oil onto the filter, ring out ALL excess oil, and reinstall the foam filter element in the generator.

Emptying the Carburetor

To store this generator for extended time, the fuel needs to be drained from the carburetor.

To drain the gasoline from the carburetor turn the fuel valve to the “off” position while the engine is running. The generator will shut down when all the gasoline in the carburetor has been used.

SPECIFICATIONS

GENMAX1500 1500 Surge Watt / 900 Running Watt Portable 2-Cycle Gas/Oil Mix Fuel Generator

Generator

Type	Revolving Magnetic Field, Self Exciting, Double-Pole, Single Phase

AC Output

Rated Wattage (W)	900
Surge Wattage (W)	1500
Rated Voltage (V)	120
Rated Amperage	15
Rated Frequency (Hz)	60
Phase	Single

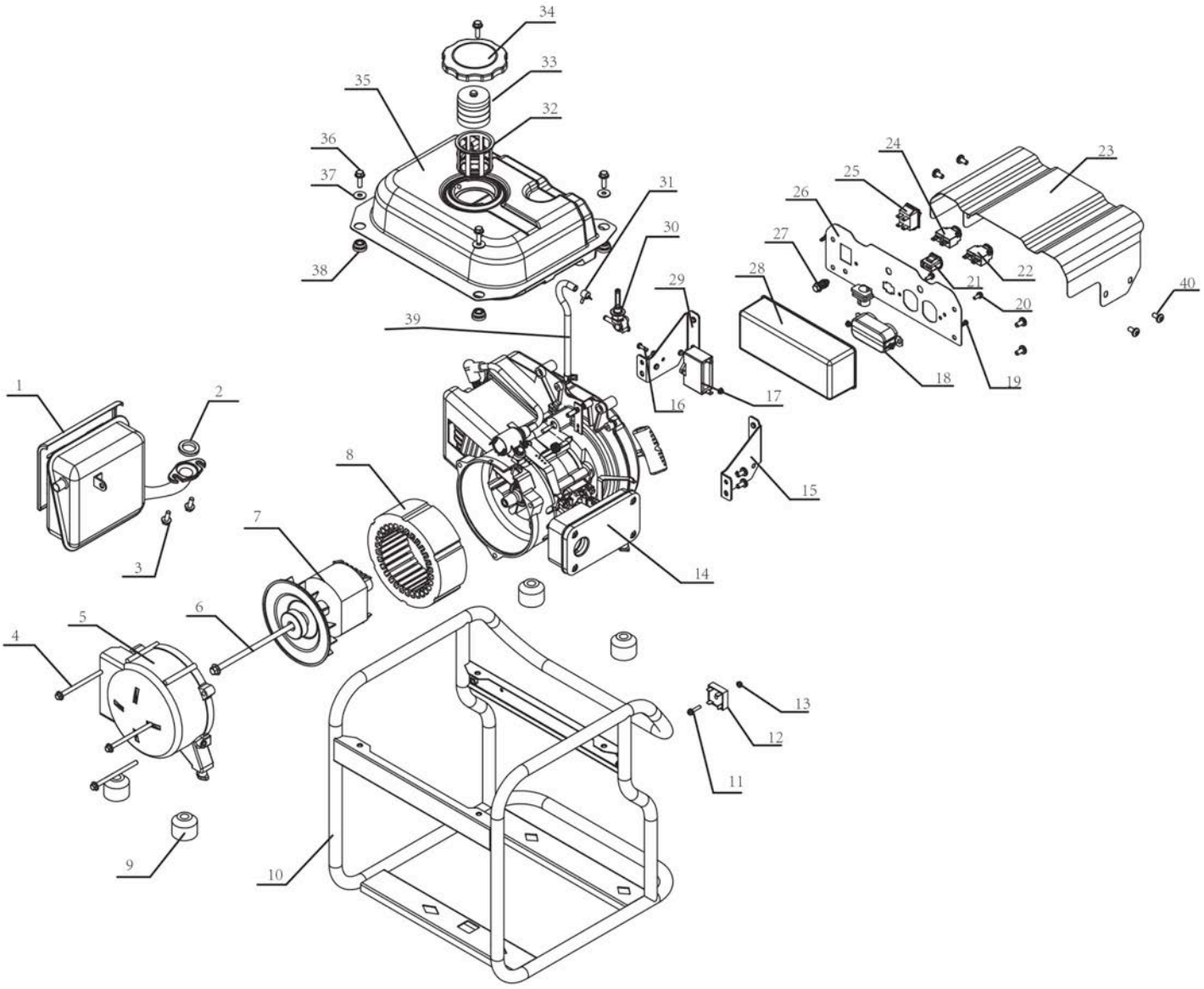
DC Output

Voltage (V)	12
Circuit Breaker Amperage (A)	8

Engine

Engine Type	2-stroke single cylinder with forced air cooling system.
Engine Displacement	72cc
Engine Model (HP)	2.0
Compression Ratio	8:1
Ignition System	CDI
Starting System	Recoil
Bore* Stroke (mm)	47 x 41.6
Continuous Operating Hours	Run time = 8 hrs @ 50% load

PARTS DIAGRAM

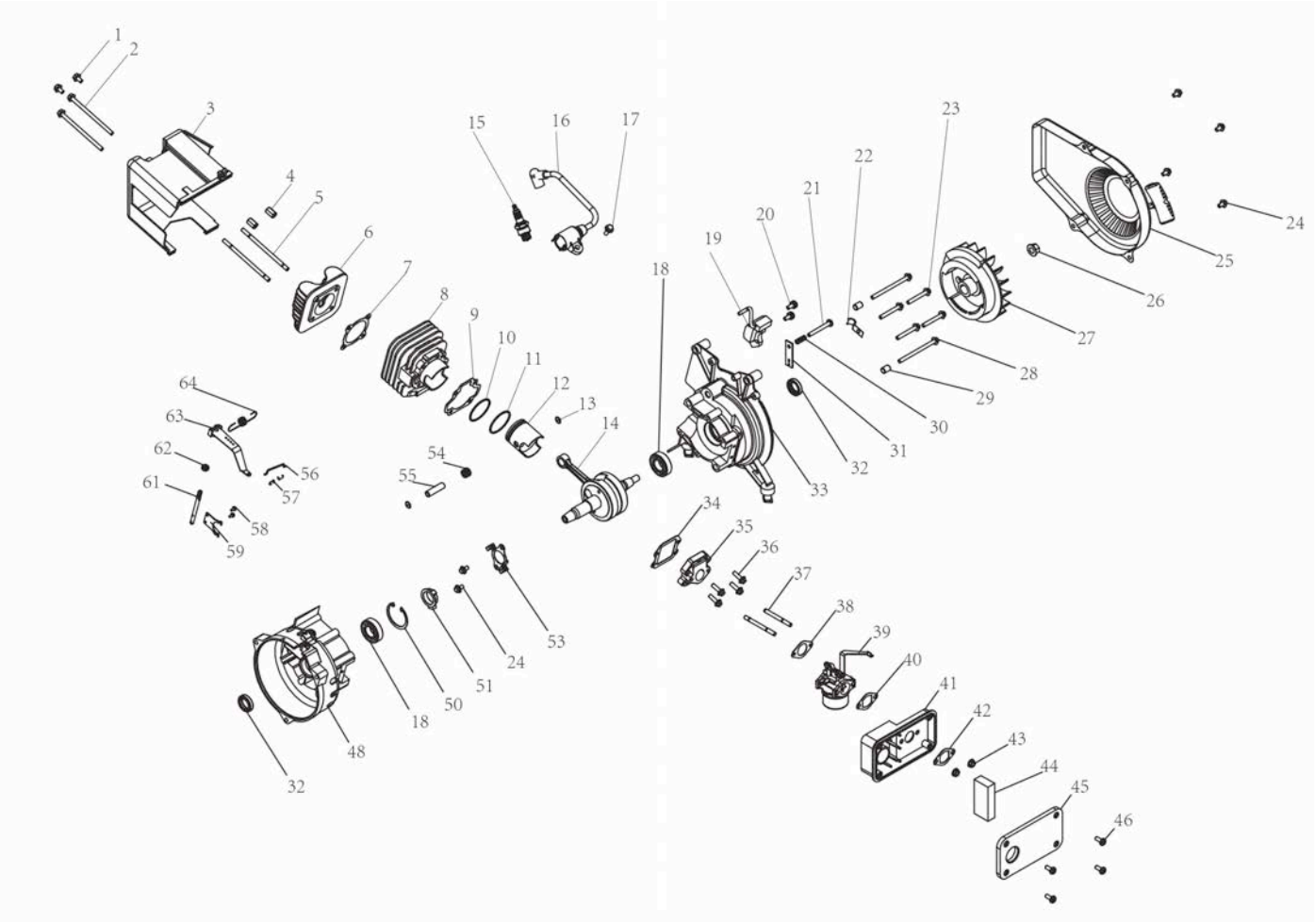


PARTS LIST

No	Part number	Description	Qty
1	ST950A01-01-EPA	muffler	1
2	ST950A01-02	washer	1
3	GB16674 M6×18	hex head bolt,M6×18	2
4	GB16674 M6×85	hex head bolt,M6×85	3
5	ST950A02-03-GEN1500SS	alternator end cover	1
6	GB16674 M8×160	hex head bolt,M8×160	1
7	CT150-106P/850W-1	stator	1
8	CT150-106P/850W-2	rotator	1
9	ST950A02-04	rubber foot	4
10	GEN1500SS03-01	frame	1
11	GB9074.4 M4×20	Phillips screw set,M4×20	1
12	KBPC3510	rectifier	1
13	GB6177.1 M4	nut,M4	1
14	1E47F-EPA00	engine	1
15	GEN2000DF-SS03-08L	left bracket	1
16	GB823 M4×15	Phillips screw ,M4×15	1
17	CAPA-12uF	capacitor	1
18	B-016	AC socket	1
19	GB13806.2 ST3.9×12	tapping Phillips screw	2
20	GB9074.4 M4*12	Phillips screw set,M4×12	2

No	Part number	Description	Qty
21	YG T12-10	T-DC socket	1
22	88-8A	protector, 8A	1
23	GEN2000DF-SS03-06	contol pannel shade	1
24	88-8A	protector, 8A	1
25	KCD4	power switch	1
26	GEN1500SS04-01	contol panel	1
27	GB5782 M6×18.00	grounding hex head bolt set	1
28	GEN2000DF-SS04-02	back cover, contol panel	1
29	GEN2000DF-SS03-08R	right bracket	1
30	RBT05-04- I	fuel tap	1
31	GG-φ9	clasp 9	2
32	KJ1000A06.00-01	fuel filter	1
33	ST950A05-01.01	fuel gauge	1
34	KJ1000A06.00-02	fuel tank cap	1
35	GEN1500SS05-01	fuel tank	1
36	GB5789 M6×20	hex head bolt, M6×20	4
37	GB96 6	big washer 6	4
38	KJ2500A05-08	fuel tank cushion	4
39	YG 5×9-EPA/CARB	fuel hose	1
40	GB2672 M6×12	torx,M6×12	12

PARTS DIAGRAM



PARTS LIST

No.	Part number	Description	Qty
1	GB5789 M6×10	hex head bolt,M6×10	2
2	GB5789 M6×100	hex head bolt,M6×100	2
3	1E45F05-01	cylinder head cover	1
4	1E45F02-09	connecting nut	2
5	GB900 M6×101	stud,M6×101	2
6	1E45F02-02	cylinder head	1
7	1E47F02-07	gasket,cylinder head	1
8	1E47F02-01	cylinder	1
9	1E45F02-06	gasket, cylinder	1
10	1E47F03-04	piston ring 1	1
11	1E47F03-05	piston ring 2	1
12	1E47F03-03	piston	1
13	1E45F03-07	clasp,piston pin	2
14	1E47F03-01	crankshaft,assy	1
15	F6TC	spark plug	1
16	1E45F04-04	high voltage set	1
17	GB5789 M6×16	hex head bolt,M6×16	1
18	GB276 6004	bearing,6004	2
19	1E45F04-02.00	ignition coil set	1
20	GB9074.4 M6×16	Phillips screw set,M6×16	2
21	GB823 M6×50	Phillips screw set,M6×50	1
22	1E45F01-05	clamp	1
23	GB16674 M6×45	hex head bolt,M6×45	4
24	GB16674 M6×10	hex head bolt,M6×10	6
25	1E45F05-02	starter	1
26	GB6177.2 M10×1.25	nut,M10×1.25	1
27	1E45F04-01	flying wheel	1
28	GB16674 M6×55	hex head bolt,M6×55	2
29	1E45F01-03	locating pin	2
30	1E45F06-09.02	adjusting spring	1

No.	Part number	Description	Qty
31	1E45F06-09.01	adjusting plate	1
32	1E45F01-04	oil seal	2
33	1E45F01-02-B	right crank case	1
34	1E45F02-08	gasket,inlet valve	1
35	1E45F02-05	air inlet valve	1
36	GB16674 M6×20	hex head bolt,M6×20	4
37	GB900 M6×60	stud,M6×60	2
38	1E45F07-02	gasket,carburetor	1
39	1E45F07-01-EPA	carburetor	1
40	1E45F07-03	gasket,air cleaner	1
41	GEN1500SS04-01	air cleaner	1
42	ST950A04-02	flange plate,air cleaner	1
43	GB6177.1 M6	hex head nut,M6	2
44	ST950A04-05	air sponge	1
45	ST950A04-03	air cleaner cover	1
46	GB818 M6×15	Phillips screw,M6×15	4
48	1E45F01-01-B	left crank case	1
50	GB893.1 45	clasp,bearing	1
51	1E45F06-02	slip ring	1
53	1E45F06-01	centrifugal set	1
54	1E45F03-02	needle bearing	1
55	1E45F03-06	piston pin	1
56	1E45F06-08	connecting rod	1
57	1E45F06-06	throttle return spring	1
58	GB9074.4 M3×8	Phillips screw set	2
59	1E45F06-03.02	governing fork	1
61	1E45F06-03.01	governing shaft	1
62	1E45F06-04	oil seal, governing shaft	1
63	1E45F06-05	governing arm	1
64	1E45F06-07/60Hz	governing spring	1

EMISSION CONTROL SYSTEM WARRANTY BUFFALO CORPORATION

Your Warranty Rights and Obligations

The California Air Recourse Board, U.S. EPA and Buffalo Corp. are pleased to explain the Emission Control System Warranty on your 2020 model year new outdoor power equipment engine.

Other States, U.S. Territories

In other areas of the United States, your engine must be designed, built and equipped to meet the U.S. EPA emission standards for spark-ignited engines at or below 19 kilowatts.

All of the United States

Buffalo Corp. must warrant the emission control system on your power equipment engine for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your power equipment engine. Where a warrantable condition exists, Buffalo Corp. will repair your power equipment engine at no cost to you including diagnosis, parts and labor.

Your emissions control system may include parts such as: carburetors or fuel injection system, ignition system, catalytic converters, fuel tanks, valves, filters, clamps, connectors, and other associated components. Also, included may be hoses, belts, connectors, sensors, and other emission-related assemblies.

Manufacturer's Warranty Coverage:

The emission control system is warranted for two years. If any emissions-related part on your engine is defective, the part will be repaired or replaced by Buffalo Corp.

Owner's Warranty Responsibility

As the power equipment engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. BUFFALO CORP. recommends that you retain all receipts covering maintenance on your power equipment engine, but BUFFALO CORP. cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the power equipment engine owner, you should however be aware that BUFFALO CORP. may deny your warranty coverage if your power equipment engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your power equipment engine to distribution center or service center authorized by BUFFALO CORP. as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 day.

If you have any questions regarding your warranty rights and responsibilities, you should contact Buffalo Corp. customer service representative at 1-866-460-9436 or write to info@buffalotools.com

DEFECTS WARRANTY COVERAGE

Adopted by the Air Resources Board, Buffalo Corp. warrants to the ultimate purchaser and each subsequent purchaser that the small off-road engine (SORE)(1) has been designed, built and equipped so as to conform with all applicable regulations; and (2) is free from defects in materials and workmanship that cause the failure of a warranted part to conform with those regulations as may be applicable to the terms and conditions stated below.

(a) The warranty period begins on the date the engine is delivered to an ultimate purchaser or first placed into service. The warranty period is two years.

(b) Subject to certain conditions and exclusions as stated below, the warranty on emissions related parts is as follows:

(1) Any warranted part that is not scheduled for replacement as required maintenance in your Owner's Manual is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by Buffalo Corp. According to Subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the periods.

(2) Any warranted part that is scheduled only for regular inspection in your owner's manual is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.

(3) Any warranted part that is scheduled for replacement as required maintenance in your owner's manual is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by Buffalo Corp. According to Subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.

(4) Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station at no charge to the owner.

(5) Notwithstanding the provisions herein, warranty services or repair will be provided at all of our distribution centers that are franchised to service the subject engines.

(6) The engine owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.

(7) Buffalo Corp. is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part.

(8) Throughout the engine warranty period stated above, Buffalo Corp. will maintain a supply of warranted part sufficient to meet the expected demand for such parts.

(9) Any replacement may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not

reduce the warranty obligations of Buffalo Corp.

(10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claims. Buffalo Corp. will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

(11) The manufacturer issuing the warranty shall provide any documents that describe that manufacturer's warranty procedures or policies within five working days of request by the Air Resources Board.

EMISSION WARRANTY PARTS LIST

(1) Fuel Metering System:

(a) Gasoline carburetor assembly and its internal components

(b) Carburetor gaskets (c) Fuel line

(d) Clamps (e) Fuel tank

(f) Fuel line fittings (g) Pressure regulator (if equipped)

(h) Mixer assembly and its internal components (if equipped)

(2) Air induction system including:

(a) Intake pipe/manifold (b) Air cleaner

(3) Ignition system including:

(a) Spark plug (b) Ignition coil

(4) Catalytic muffler assembly including:

(a) Muffler gasket (b) Exhaust manifold

(c) Catalytic converter (if available)

(5) Crankcase breather assembly including:

(a) Breather connection tube

(6) Fuel tank evaporative emissions control system including:

(a) Purge valves (b) Carbon canister

(c) Canister mounting brackets (d) Fuel cap

(e) Fuel tank

(7) Miscellaneous items used in above systems including:

(a) Switches (b) Hoses, belts connectors and assemblies

(8) Air injection system

(a) Pulse valve

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