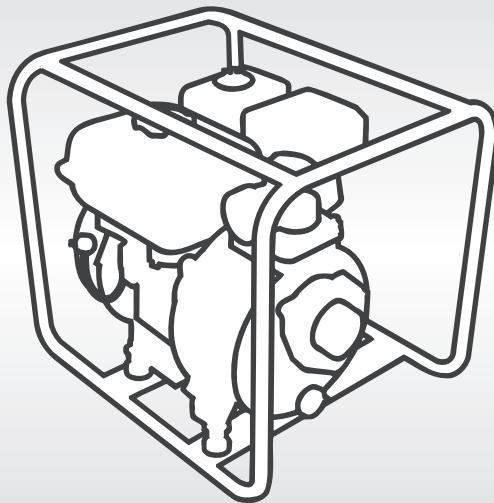


**HONDA**

Owner's Manual  
**WATER PUMP**  
**WB20XT•WB30XT**



Includes US and Canadian Models

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## **WARNING:**



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

Keep this owner's manual handy, so you can refer to it any time. This owner's manual is considered a permanent part of the water pump and should remain with the water pump if resold.

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# INTRODUCTION

Congratulations on your selection of a Honda water pump. We are certain you will be pleased with your purchase of one of the finest water pumps on the market.

We want to help you get the best results from your new water pump and to operate it safely. This manual contains the information on how to do that; please read it carefully.

As you read this manual, you will find information preceded by a

**NOTICE** symbol. That information is intended to help you avoid damage to your water pump, other property, or the environment.

We suggest you read the *Distributor's Limited Warranty (U.S.) / Distributor's Warranty (CA.)* to fully understand its coverage and your responsibilities of ownership. The *Distributor's Limited Warranty (U.S.) / Distributor's Warranty (CA.)* is a separate document that should have been given to you by your dealer. If not, you can obtain a copy from your dealer or download the *Distributor's Limited Warranty (U.S.) / Distributor's Warranty (CA.)* from:

U.S.A <http://powerequipment.honda.com/support/warranty>

Canada <http://powerequipment.honda.ca/parts-service/warranty>

When your water pump needs scheduled maintenance, keep in mind that your Honda servicing dealer is specially trained in servicing Honda water pumps. Your Honda servicing dealer is dedicated to your satisfaction and will be pleased to answer your questions and concerns.

# INTRODUCTION

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## A FEW WORDS ABOUT SAFETY

Your safety and the safety of others are very important. And using this water pump safely is an important responsibility.

To help you make informed decisions about safety, we have provided operating procedures and other information on labels and in this manual. This information alerts you to potential hazards that could hurt you or others.

Of course, it is not practical or possible to warn you about all the hazards associated with operating or maintaining a water pump. You must use your own good judgment.

You will find important safety information in a variety of forms, including:

- **Safety Labels** — on the pump.
- **Safety Messages** — preceded by a safety alert symbol  and one of three signal words, DANGER, WARNING, or CAUTION.

These signal words mean:

 **DANGER**

You **WILL** be **KILLED** or **SERIOUSLY HURT** if you don't follow instructions.

 **WARNING**

You **CAN** be **KILLED** or **SERIOUSLY HURT** if you don't follow instructions.

 **CAUTION**

You **CAN** be **HURT** if you don't follow instructions.

- **Safety Headings** — such as *IMPORTANT SAFETY INFORMATION*.
- **Safety Section** — such as *PUMP SAFETY*.
- **Instructions** — how to use this pump correctly and safely.

This entire book is filled with important safety information — please read it carefully.

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# PUMP SAFETY

## IMPORTANT SAFETY INFORMATION

Honda WB20XT and WB30XT pumps are designed to pump only fresh water that is not intended for human consumption; other uses can result in injury to the operator or damage to the pump and other property.

Most injuries or property damage can be prevented if you follow all instructions in this manual and on the pump. The most common hazards are discussed below, along with the best way to protect yourself and others.

### Operator Responsibility

It is the operator's responsibility to provide the necessary safeguards to protect people and property. Know how to stop the pump quickly in case of emergency. If you leave the pump for any reason, always turn the engine off. Understand the use of all controls and connections.

Be sure that anyone who operates the pump receives proper instruction. Do not let children operate the pump. Keep children and pets away from the area of operation.

### Pump Operation

Pump only fresh water that is not intended for human consumption. Pumping flammable liquids, such as gasoline or fuel oils, can result in a fire or explosion, causing serious injury. Pumping sea water, beverages, acids, chemical solutions, or any other liquid that promotes corrosion can damage the pump.

### Refuel With Care

Gasoline is extremely flammable, and gasoline vapor can explode. Do not refuel during operation.

Allow the engine to cool if it has been in operation.

Refuel only outdoors in a well-ventilated area and on a level surface. Never smoke near gasoline, and keep other flames and sparks away. Do not overfill the fuel tank.

Make sure that any spilled fuel has been wiped up and cleaned before starting the engine.

Always store gasoline in an approved container.

# PUMP SAFETY

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## Fire and Burn Hazards

- The exhaust system gets hot enough to ignite some materials.
  - Keep the pump at least 3 feet (1 meter) away from buildings and other equipment during operation.
  - Do not enclose the pump in any structure.
  - Keep flammable materials away from the pump.
- The muffler becomes very hot during operation and remains hot for a while after stopping the engine. Be careful not to touch the muffler while it is hot. Let the engine cool before storing the pump indoors.

## Carbon Monoxide Hazard

Your water pump's exhaust contains poisonous carbon monoxide gas, which you cannot see or smell.

Breathing carbon monoxide can KILL YOU IN MINUTES.

For your safety:

- Do not start or operate the engine in any closed or partially enclosed area, such as a garage.
- Never run the water pump in a closed or even partially closed area where people or pets may be present.
- Never operate the water pump near open doors, windows, or vents.
- Get fresh air and seek medical attention immediately if you suspect you have inhaled carbon monoxide.

Early symptoms of carbon monoxide exposure include headache, fatigue, shortness of breath, nausea, and dizziness. Continued exposure to carbon monoxide can cause loss of muscular coordination, loss of consciousness, and then death.



## SAFETY LABEL LOCATIONS

The labels shown here contain important safety information. Please read them carefully. These labels are considered permanent parts of your pump. If a label comes off or becomes hard to read, contact your servicing dealer for a replacement.

**⚠ WARNING**  
To avoid death or serious injury, read owner's manual before operation.

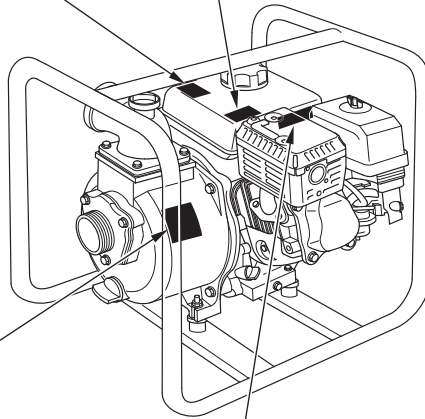
**⚠ AVERTISSEMENT** \*1  
Lisez le manuel de l'utilisateur avant usage, afin de prévenir de graves blessures, voire même mortelles.

**⚠ CAUTION**  
HOT MUFFLER CAN BURN YOU.  
Stay away if engine has been running.

**⚠ ATTENTION** \*1  
L'ÉCHAPPEMENT CHAUD PEUT VOUS BRÛLER.  
S'ÉLOIGNER QUAND LE MOTEUR FONCTIONNE.

**⚠ WARNING**  
Do not pump flammable liquids.  
An explosion or fire could result, causing death or severe injury.  
Dry operation will burn the seal.  
Fill pump chamber with water before running.

**⚠ AVERTISSEMENT** \*1  
Ne pompez aucun liquide inflammable.  
Une explosion ou un incendie pourrait en résulter et entraîner de graves blessures, voire même mortelles.  
Un fonctionnement sans amorçage endommagera le joint d'étanchéité.  
Remplissez le boîtier de pompe avec de l'eau avant de faire fonctionner.



\*2

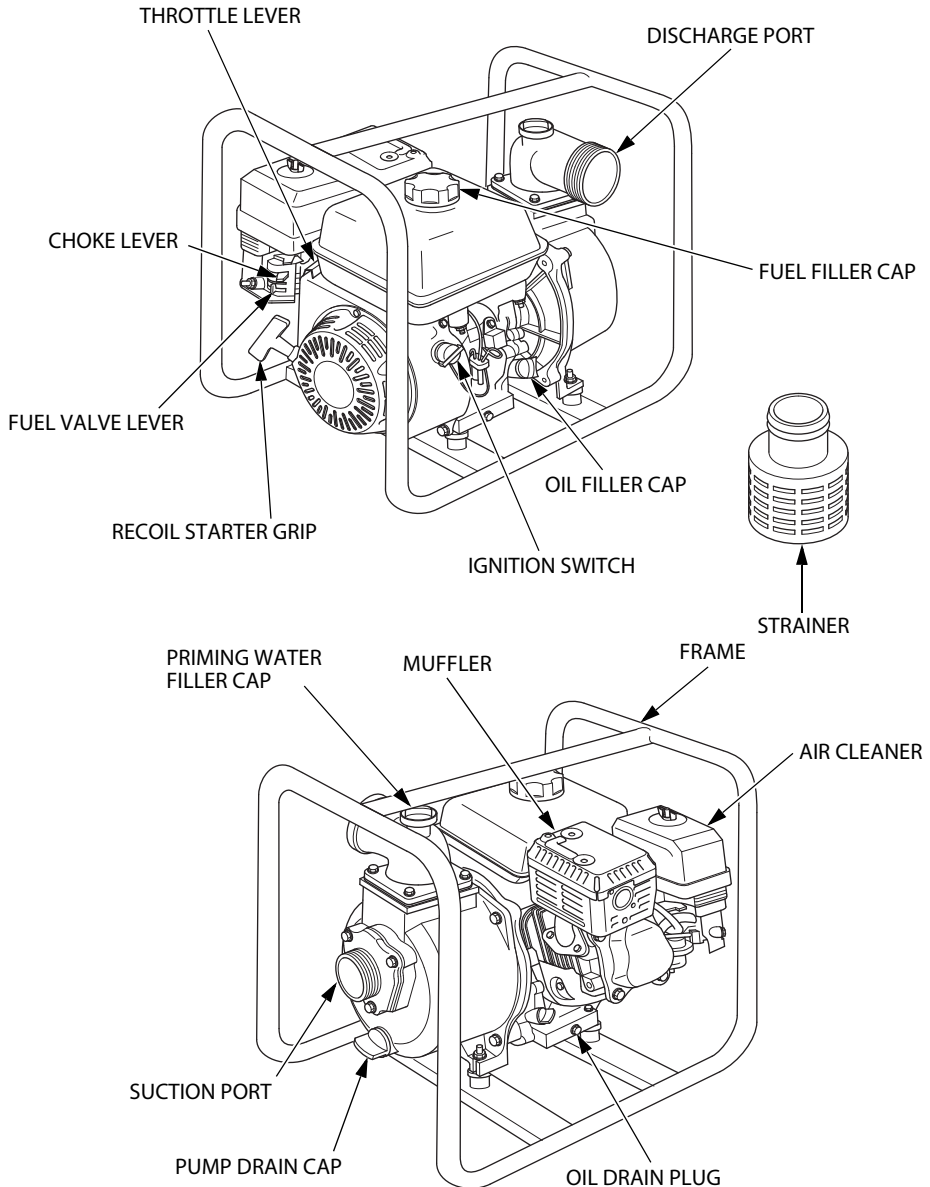
**⚠ WARNING**  
Operation of This Equipment May Create Sparks That Can Start Fires Around Dry Vegetation. A Spark Arrestor May be Required. The Operator Should Contact Local Fire Agencies For Laws or Regulations Relating to Fire Prevention Requirements.  
Per California Public Resources Code 4442.6

- \*1: Canadian model only  
French labels come with the water pump.
- \*2: USA model only

# CONTROLS & FEATURES

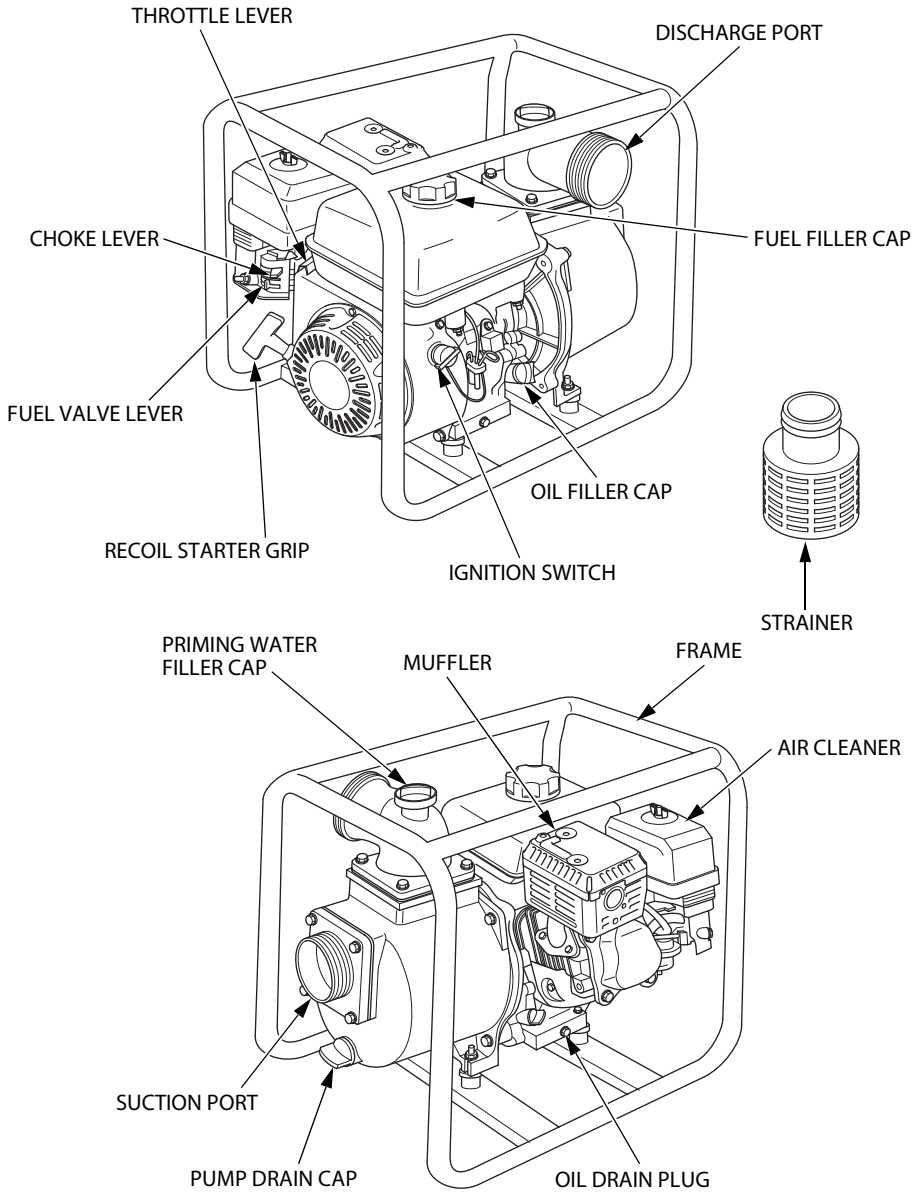
## COMPONENT & CONTROL LOCATIONS

<WB20XT>



# CONTROLS & FEATURES

<WB30XT>



# CONTROLS & FEATURES

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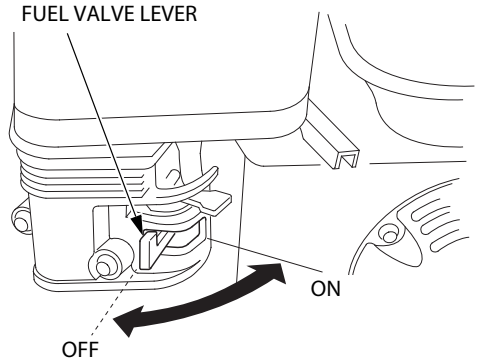
## CONTROLS

### Fuel Valve Lever

The fuel valve opens and closes the passage between the fuel tank and the carburetor.

The fuel valve lever must be in the ON position for the engine to run.

When the engine is not in use, leave the fuel valve lever in the OFF position to prevent carburetor flooding and to reduce the possibility of fuel leakage.

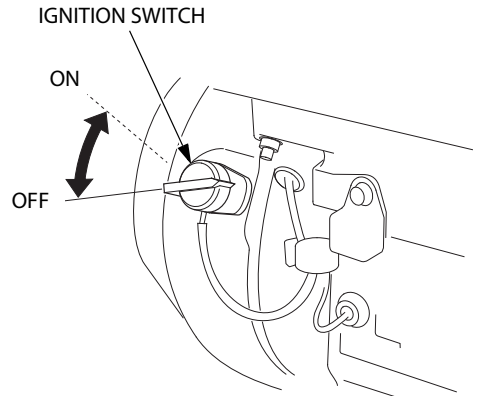


### Ignition Switch

The ignition switch controls the ignition system.

The ignition switch must be in the ON position for the engine to run.

Turning the ignition switch to the OFF position stops the engine.

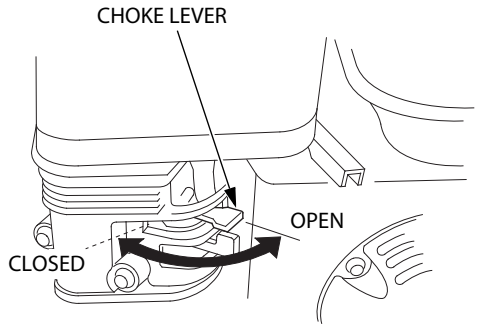


## Choke Lever

The choke lever opens and closes the choke valve in the carburetor.

The CLOSED position enriches the fuel mixture for starting a cold engine.

The OPEN position provides the correct fuel mixture for operation after starting, and for restarting a warm engine.

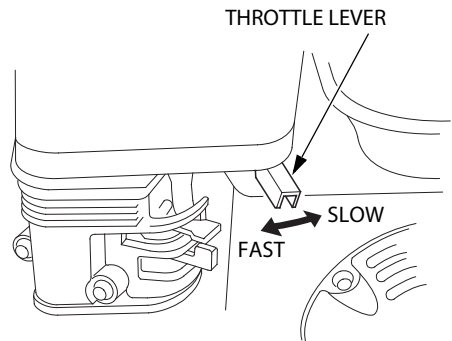


## Throttle Lever

The throttle lever controls engine speed.

Moving the throttle lever in the directions shown makes the engine run faster or slower.

Pump output is controlled by adjusting the throttle lever. At maximum throttle position, the pump will deliver the highest output volume. Moving the throttle lever toward the idle position will decrease the output volume of the pump.

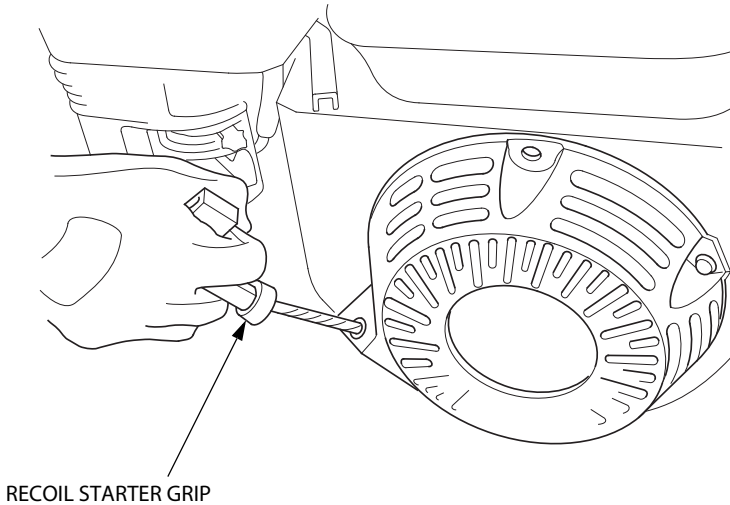


# CONTROLS & FEATURES

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## Recoil Starter Grip

Pulling the recoil starter grip operates the recoil starter to crank the engine.



## FEATURES

### Oil Alert® System

The Oil Alert® system is designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. Before the oil level in the crankcase can fall below a safe limit, the Oil Alert system will automatically stop the engine (the ignition switch will remain in the ON position).

If the engine stops and will not restart, check the engine oil level (page 30) before troubleshooting in other areas.

# BEFORE OPERATION

## ARE YOU READY TO GET STARTED?

Your safety is your responsibility. A little time spent in preparation will significantly reduce your risk of injury.

### Knowledge

Read and understand this manual. Know what the controls do and how to operate them.

Familiarize yourself with the pump and its operation before you begin pumping. Know how to quickly shut off the pump in case of an emergency.

Be sure of what you are pumping. This pump is designed to pump only fresh water that is not intended for human consumption.

## IS YOUR PUMP READY TO GO?

For your safety, to ensure compliance with environmental regulations, and to maximize the service life of your equipment, it is very important to take a few moments before you operate the pump to check its condition. Be sure to take care of any problem you find, or have your servicing dealer correct it, before you operate the pump.

### **WARNING**

Failure to properly maintain this pump, or failing to correct a problem before operation, could result in a significant malfunction.

Some malfunctions can cause serious injuries or death.

Always perform a pre-operation inspection before each operation and correct any problems.

To prevent a possible fire, keep the pump at least 3 feet (1 meter) away from building walls and other equipment during operation. Do not place flammable objects close to the engine.

Before beginning your pre-operation checks, be sure the pump is on a level and firm surface with the ignition switch in the OFF position.

# BEFORE OPERATION

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## Check the General Condition of the Pump

- Remove any excessive dirt or debris, especially around the engine muffler and recoil starter.
- Look for signs of damage.
- Check that all nuts, bolts, screws, hose connectors and clamps are tightened.

## Check the Suction and Discharge Hoses

- Check the general condition of the hoses. Be sure the hoses are in serviceable condition before connecting them to the pump. Remember that the suction hose must be reinforced construction to prevent hose collapse.
- Check that the sealing washer in the suction hose connector is in good condition (see page 17).
- Check that the hose connectors and clamps are securely installed (see pages 17 and 18).
- Check that the strainer is in good condition and is installed on the suction hose (see page 17).

## Check the Engine

- Before each use, look around and underneath the engine for signs of oil or gasoline leaks.
- Check the engine oil level (see page 30). Running the engine with a low oil level can cause engine damage.
- Check the air filter (see page 33). A dirty air filter will restrict air flow to the carburetor, reducing engine and pump performance.
- Check the fuel level (see page 28). Starting with a full tank will help to eliminate or reduce operating interruptions for refueling.



# OPERATION

## SAFE OPERATING PRECAUTIONS

To safely realize the full potential of this pump, you need a complete understanding of its operation and a certain amount of practice with its controls.

Before operating the pump for the first time, please review the *IMPORTANT SAFETY INFORMATION* on page 5 and the chapter titled *BEFORE OPERATION*.

For your safety, avoid starting or operating the engine in an enclosed area, such as a garage. Your engine's exhaust contains poisonous carbon monoxide gas that can collect rapidly in an enclosed area and cause illness or death.

### **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 this product's engine in a closed, or even partly closed area.

Pump only fresh water that is not intended for human consumption. Pumping flammable liquids, such as gasoline or fuel oils, can result in a fire or explosion, causing serious injury. Pumping sea water, beverages, acids, chemical solutions, or any other liquid that promotes corrosion can damage the pump.

# OPERATION

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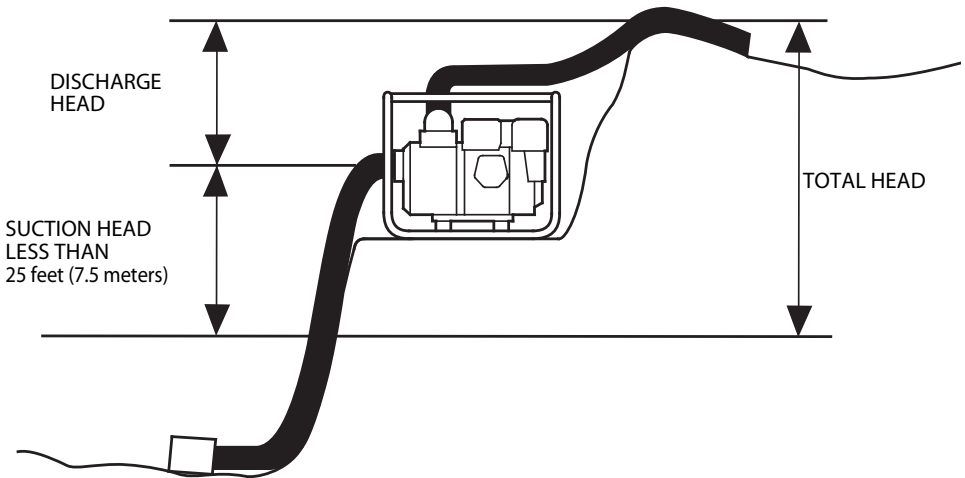
## PUMP PLACEMENT

For best pump performance, place the pump on a firm, level surface, and near the water level, and use hoses that are no longer than necessary. That will enable the pump to produce the greatest output with the least self-priming time.

As head (pumping height) increases, pump output decreases. The length, type, and size of the suction and discharge hoses can also significantly affect pump output.

Discharge head capability is always greater than suction head capability, so it is important for suction head to be the shorter part of total head. The maximum available suction head will vary based on the operating conditions. However, the suction head can never exceed 25 feet (7.5 meters) and should always be kept as low as possible.

Minimizing suction head (placing the pump near the water level) is also very important for reducing self-priming time. Self-priming time is the time it takes the pump to bring water the distance of the suction head during initial operation.



## SUCTION HOSE INSTALLATION

Use a commercially available hose and hose connector with the hose clamp provided with the pump (if necessary). Most hoses come with the connectors already installed. The suction hose must be reinforced with a noncollapsible wall or braided wire construction and cannot contain any perforations.

Do not use a hose smaller than the pump's suction port size.

Minimum hose size: WB20XT=2.0 in (50 mm)

WB30XT=3.1 in (80 mm)

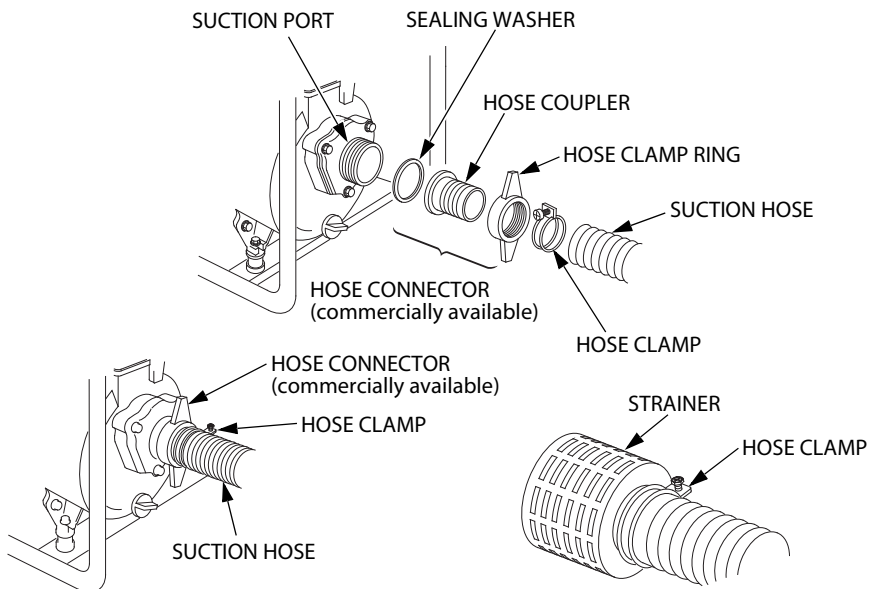
The suction hose should be no longer than necessary. Pump performance is best when the pump is near the water level and the hoses are short.

Use a hose clamp to securely fasten the hose connector to the suction hose in order to prevent air leakage and loss of suction. Verify that the hose connector sealing washer is in good condition.

Install the strainer (provided with the pump) one with equivalent hole sizes on the other end of the suction hose, and secure it with a hose clamp. The strainer will help to prevent the pump from becoming clogged or damaged by debris.

Never operate the pump without the strainer installed.

Securely tighten the hose connector on the pump suction port.



# OPERATION

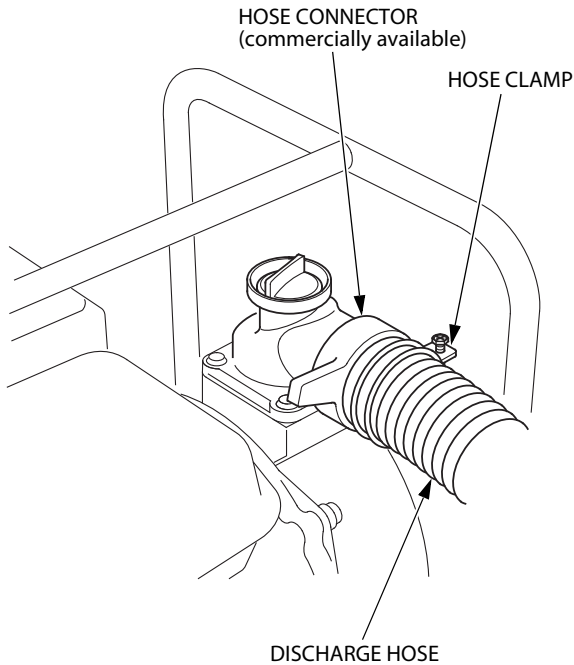
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## DISCHARGE HOSE INSTALLATION

Use a commercially available hose and hose connector with the hose clamp provided with the pump (if necessary).

It is best to use a short, large-diameter hose, because that will reduce fluid friction and improve pump output. A long or small-diameter hose will increase fluid friction and reduce pump output.

Tighten the hose clamp securely to prevent the discharge hose from disconnecting under pressure.



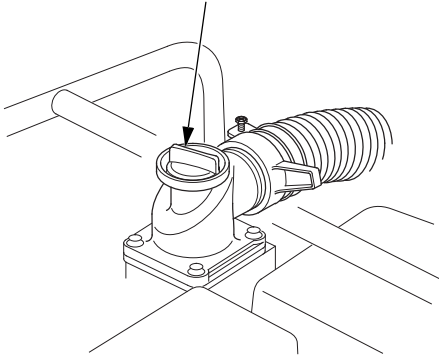
## PRIMING THE PUMP

Before starting the engine, remove the filler cap from the pump chamber. Fill the pump chamber to the undersurface of the discharge port with water. Reinstall the filler cap and tighten it securely.

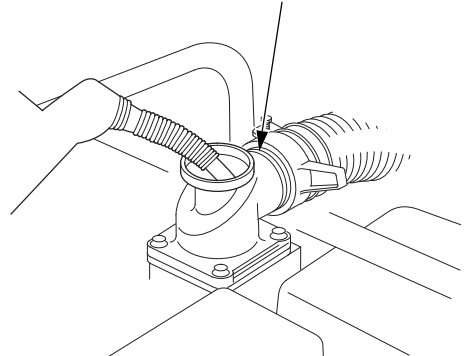
### NOTICE

*Operating the pump dry will destroy the pump seal. If the pump has been operated dry, stop the engine immediately, and allow the pump to cool before priming.*

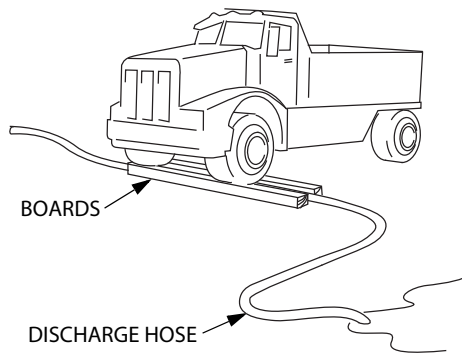
PRIMING WATER FILLER CAP



DISCHARGE PORT



If the discharge hose must run across a roadway, the hose should cross the roadway perpendicular to traffic flow. Also, heavy boards should be placed next to the hose so the motor vehicle weight does not shut off the discharge as vehicles cross over the hose.



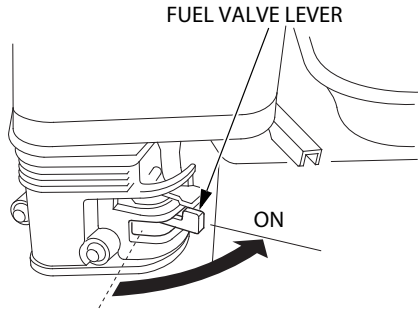
Driving over a discharge hose while the pump is running, or even possibly when the pump is stopped, may cause pump case failure.

# OPERATION

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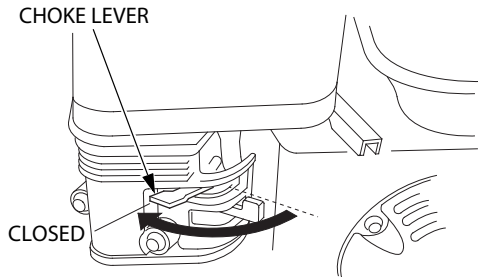
## STARTING THE ENGINE

1. Prime the pump (see page 19).
2. Move the fuel valve lever to the ON position.

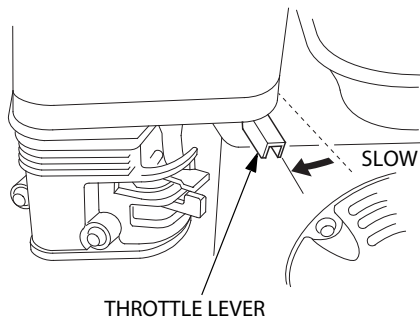


3. To start a cold engine, move the choke lever to the CLOSED position.

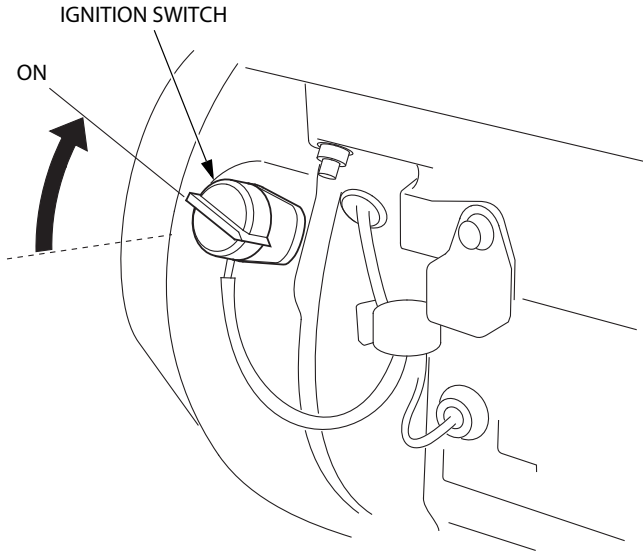
To restart a warm engine, leave the choke lever in the OPEN position.



4. Move the throttle lever away from the SLOW position about 1/3 of the way toward the FAST position.

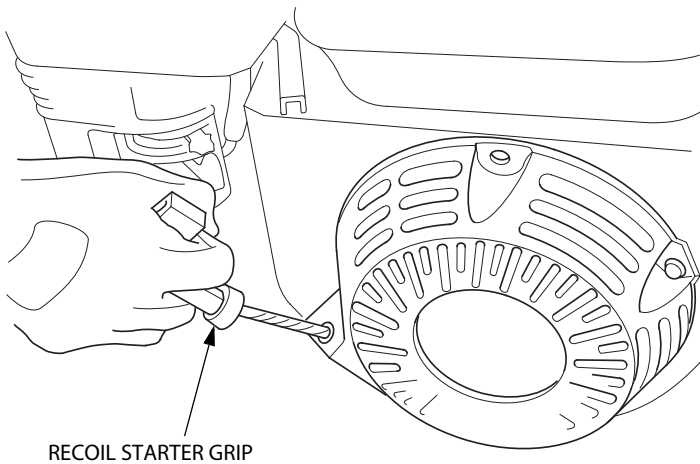


5. Turn the ignition switch to the ON position.



6. Pull the recoil starter grip lightly until you feel resistance, and then pull briskly.

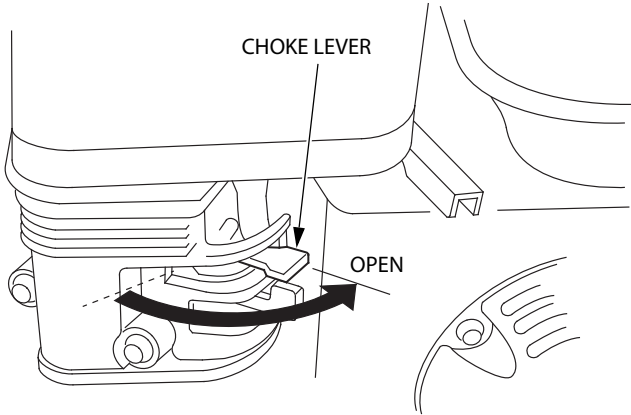
Do not allow the recoil starter grip to snap back against the engine. Return it gently to prevent damage to the starter.



# OPERATION

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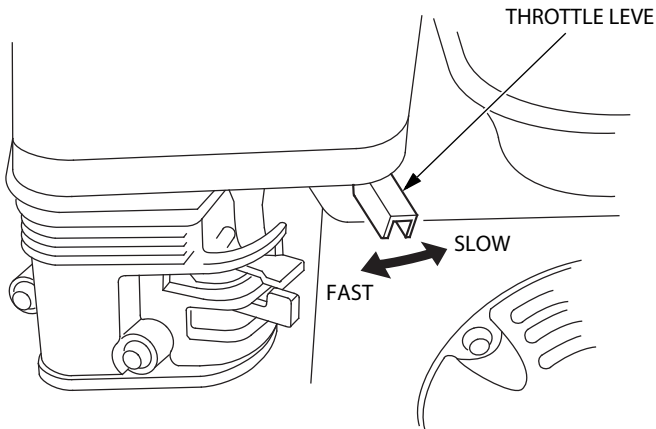
7. If the choke lever was moved to the CLOSED position to start the engine, gradually move it to the OPEN position as the engine warms up.



## SETTING ENGINE SPEED

After starting the engine, move the throttle lever to the FAST position for self-priming, and check pump output.

Pump output is controlled by adjusting engine speed. Moving the throttle lever in the FAST direction will increase pump output, and moving the throttle lever in the SLOW direction will decrease pump output.

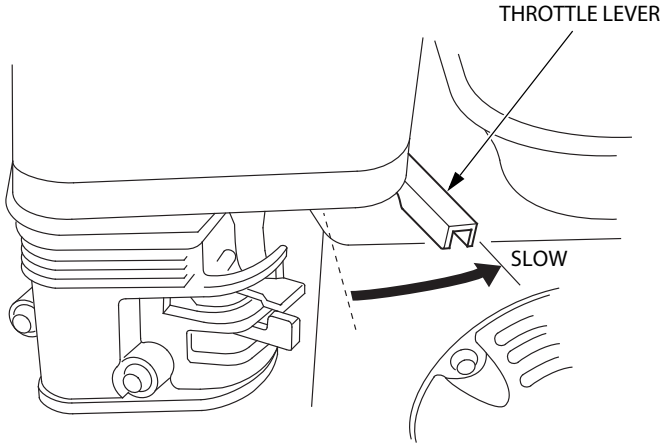




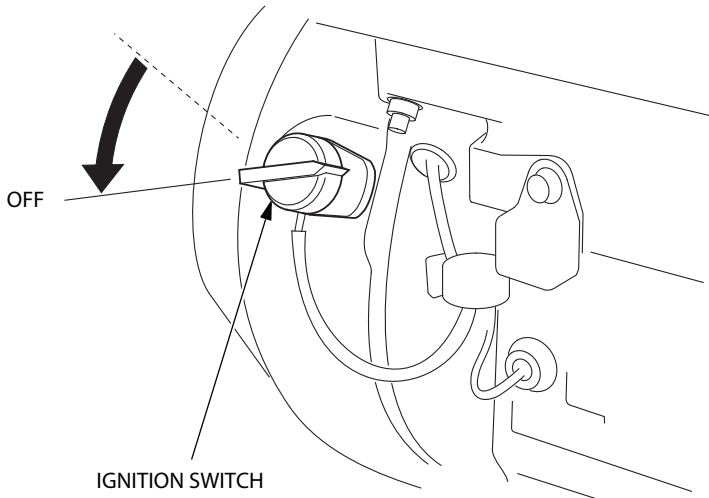
## STOPPING THE ENGINE

To stop the engine in an emergency, simply turn the ignition switch to the OFF position. Under normal conditions, use the following procedure.

1. Move the throttle lever to the SLOW position.



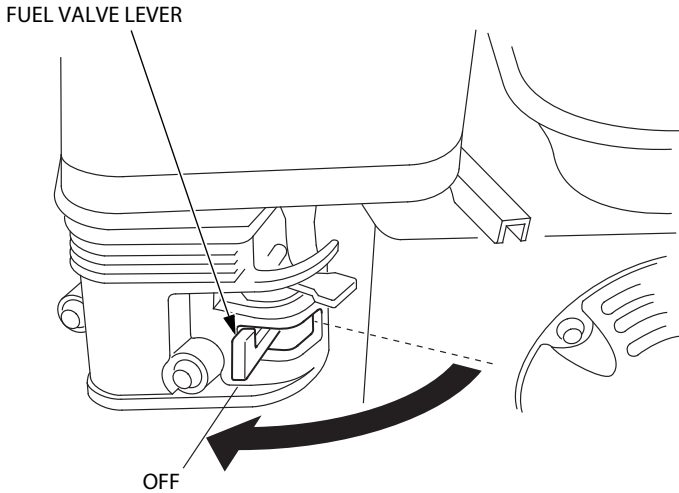
2. Turn the ignition switch to the OFF position.



# OPERATION

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3. Turn the fuel valve lever to the OFF position.



After use, remove the pump drain plug (see page 40), and drain the pump chamber. Remove the filler cap, and flush the pump chamber with clean, fresh water. Allow the water to drain from the pump chamber, and then reinstall the filler cap and drain plug.

# SERVICING YOUR PUMP

## THE IMPORTANCE OF MAINTENANCE

Good maintenance is essential for safe, economical, and trouble-free operation. It will also help reduce air pollution.

### **WARNING**

Failure to properly maintain this pump, or failing to correct a problem before operation, could result in a significant malfunction.

Some malfunctions can cause serious injuries or death.

Always follow the inspection and maintenance recommendations and schedules in this owner's manual.

To help you properly care for your pump, the following pages include a maintenance schedule, routine inspection procedures, and simple maintenance procedures using basic hand tools. Other service tasks that are more difficult, or require special tools, are best handled by professionals and are normally performed by a Honda technician or other qualified mechanic.

The maintenance schedule applies to normal operating conditions. If you operate your pump under severe conditions, such as sustained high-load or high-ambient temperature operation, or use in unusually wet or dusty conditions, consult your servicing dealer for recommendations applicable to your individual needs and use.

Remember that an authorized Honda servicing dealer knows your pump best and is fully equipped to maintain and repair it.

To ensure the best quality and reliability, use only new, Honda Genuine parts or their equivalents for repair and replacement.

**Maintenance, replacement, or repair of emission control devices and systems may be performed by any engine repair establishment or individual, using parts that are “certified” to U.S. EPA standards.**

# SERVICING YOUR PUMP

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## MAINTENANCE SAFETY

Some of the most important safety precautions follow. However, we cannot warn you of every conceivable hazard that can arise in performing maintenance. Only you can decide whether or not you should perform a given task.

### **WARNING**

Improper maintenance can cause an unsafe condition.

Failure to properly follow maintenance instructions and precautions can cause serious injuries or death.

Always follow the procedures and precautions in this owner's manual.

## Safety Precautions

- Make sure the engine is off before you begin any maintenance or repairs. This will eliminate several potential hazards:
  - **Carbon monoxide poisoning from engine exhaust.**  
Be sure there is adequate ventilation whenever you operate the engine.
  - **Burns from hot parts.**  
Let the engine and exhaust system cool before touching.
  - **Injury from moving parts.**  
Do not run the engine unless instructed to do so.
- Read the instructions before you begin, and make sure you have the tools and skills required.
- To reduce the possibility of fire or explosion, be careful when working around gasoline. Use only a nonflammable solvent, not gasoline, to clean parts. Keep cigarettes, sparks, and flames away from all fuel-related parts.

# SERVICING YOUR PUMP

## MAINTENANCE SCHEDULE

REGULAR SERVICE PERIOD (3)		Each use	First month or 20 hrs.	Every 3 months or 50 hrs.	Every 6 months or 100 hrs.	Every year or 300 hrs.	page
ITEM	Perform at every indicated month or operating hour interval, whichever comes first.						
Engine oil	Check level	o					30
	Change		o		o		31
Air cleaner	Check	o					33
	Clean			o(1)			34
	Replace					o*	34
Spark plug	Check-Adjust				o		36
	Replace					o	
Spark arrester (optional part)	Clean				o		38
Sediment cup	Clean				o		35
Idle speed	Check-Adjust					o(2)	—
Valve clearance	Check-Adjust					o(2)	
Combustion chamber	Clean	After every 500 hrs. (2)					
Fuel tank and filter	Clean				o(2)		
Fuel tube	Check	Every 2 years (Replace if necessary) (2)					
Impeller	Check					o(2)	
Impeller clearance	Check					o(2)	
Pump inlet valve	Check					o(2)	

\* Replace paper element type only.

- (1) Service more frequently when used in dusty areas.
- (2) These items should be serviced by your servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures. See "Honda Publications" on page 56 for ordering information.
- (3) For commercial use, log hours of operation to determine proper maintenance intervals.

Failure to follow this maintenance schedule could result in non-warrantable failures.

# SERVICING YOUR PUMP

## REFUELING

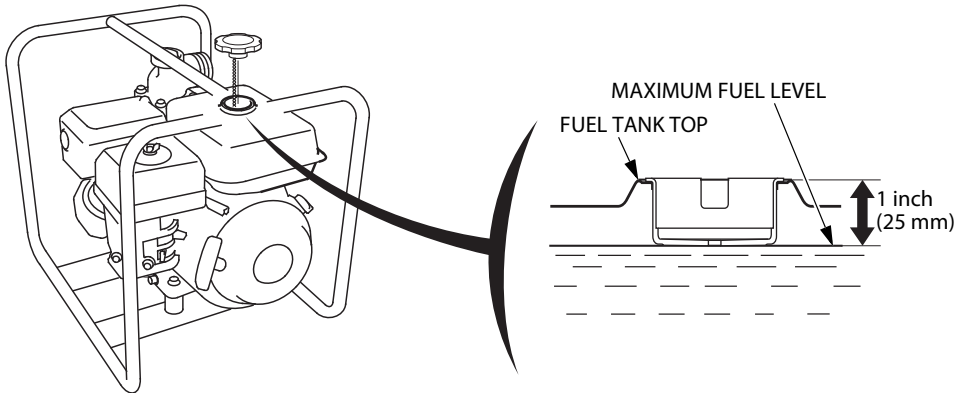
With the engine stopped and on a level surface, remove the fuel tank cap and check the fuel level. Refill the tank if the fuel level is low.

### **⚠ WARNING**

Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

- Stop the engine and let it cool before handling fuel.
- Keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Keep away from your vehicle.
- Wipe up spills immediately.



Refuel in a well-ventilated area before starting the engine. If the engine has been running, allow it to cool. Refuel carefully to avoid spilling fuel. Do not fill the fuel tank completely. Fill tank to approximately 1 inch (25 mm) below the top of the fuel tank to allow for fuel expansion. If may be necessary to lower the fuel level depending on operating conditions.

After refueling, tighten the fuel tank cap securely.

Never refuel the engine inside a building where gasoline fumes may reach flames or sparks. Keep gasoline away from appliance pilot lights, barbecues, electric appliances, power tools, etc.

Spilled fuel is not only a fire hazard, it causes environmental damage. Wipe up spills immediately.

## NOTICE

*Fuel can damage paint and plastic. Be careful not to spill fuel when filling your fuel tank. Damage caused by spilled fuel is not covered under the Distributor's Limited Warranty (U.S.) / Distributor's Warranty (CA.).*

## FUEL RECOMMENDATIONS

This engine is certified to operate on unleaded gasoline with a pump octane rating of 86 or higher.

Never use gasoline that is stale, contaminated, or mixed with oil. Avoid getting dirt or water in the fuel tank.

You may use regular unleaded gasoline containing no more than 10% ethanol (E10) or 5% methanol by volume. In addition, methanol must contain cosolvents and corrosion inhibitors.

Use of fuels with content of ethanol or methanol greater than shown above may cause starting and/or performance problems. It may also damage metal, rubber, and plastic parts of the fuel system.

Engine damage or performance problems that result from using a fuel with percentages of ethanol or methanol greater than shown above are not covered under the *Distributor's Limited Warranty (U.S.) / Distributor's Warranty (CA.)*.

If your equipment will be used on an infrequent or intermittent basis, please refer to the fuel section of the *STORAGE* chapter (page 40) for additional information regarding fuel deterioration.

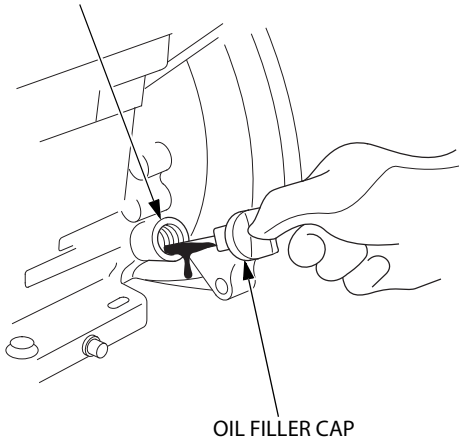
# SERVICING YOUR PUMP

## ENGINE OIL LEVEL CHECK

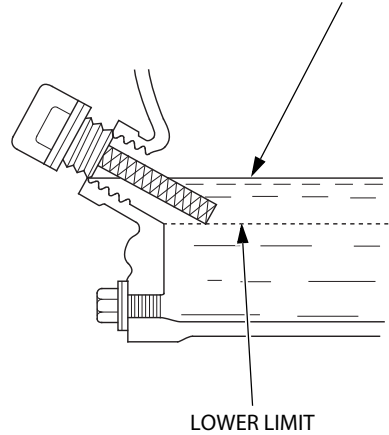
Check the engine oil level with the engine stopped and in a level position.

1. Remove the oil filler cap.
2. Check the oil level. If it is below the upper limit, fill with the recommended oil (see page 32) to the upper limit.
3. Reinstall the oil filler cap securely.

OIL FILLER NECK



UPPER LIMIT



### NOTICE

*Running the engine with a low oil level can cause engine damage. This type of damage is not covered under the Distributor's Limited Warranty (U.S.) / Distributor's Warranty (CA.).*



## ENGINE OIL CHANGE

Drain the used oil while the engine is warm. Warm oil drains quickly and completely.

1. Place a suitable container below the engine to catch the used oil, and then remove the oil filler cap, drain plug and sealing washer.
2. Allow the used oil to drain completely into an approved container, then reinstall the drain plug with a new sealing washer, and tighten it securely.

**TORQUE:** 18 N·m (1.8 kgf·m, 13 lbf·ft)

3. With the engine in a level position, fill with the recommended oil (see page 32) to the upper limit.

Engine oil capacities

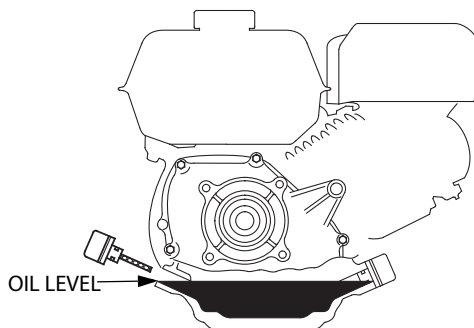
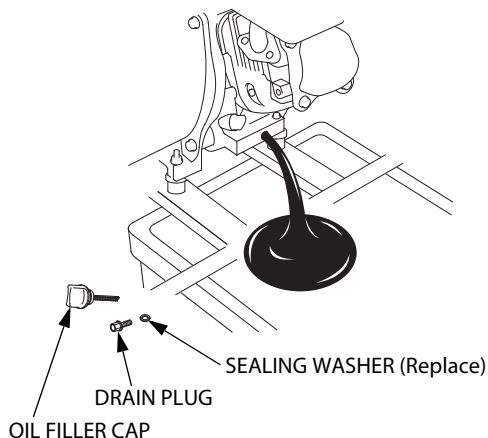
WB20XT: 0.59 US qt (0.56 L)

WB30XT: 0.61 US qt (0.58 L)

### NOTICE

*Improper disposal of engine oil can be harmful to the environment. If you change your own oil, please dispose of used motor oil properly. Put it in a sealed container, and take it a recycling center. Do not throw it in the trash, pour it on the ground, or pour it down a drain.*

4. Reinstall the oil filler cap securely.



Wash your hands with soap and water after handling used oil.

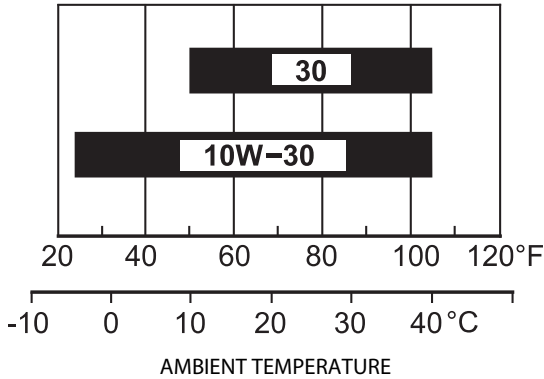
# SERVICING YOUR PUMP

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## ENGINE OIL RECOMMENDATION

Oil is a major factor affecting performance and service life. Use 4-stroke automotive detergent oil.

Use 4-stroke motor oil that meets or exceeds the requirements for API service category SJ or later (or equivalent). Always check the API service label on the oil container to be sure it includes the letters SJ or later (or equivalent).



SAE 10W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the recommended range.

## AIR FILTER INSPECTION

Unscrew the wing nut and remove the air cleaner cover. Check the air filter to be sure it is clean and in good condition.

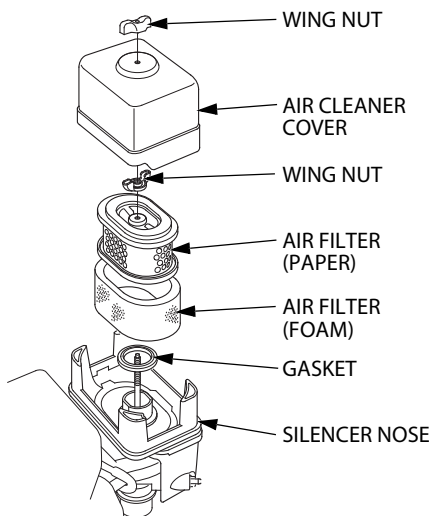
If the air filter is dirty, clean it as described on page 34. Replace the air filter if it is damaged.

Reinstall the air filter and air cleaner cover. Be sure all the parts shown below are in place. Tighten the wing nut securely.

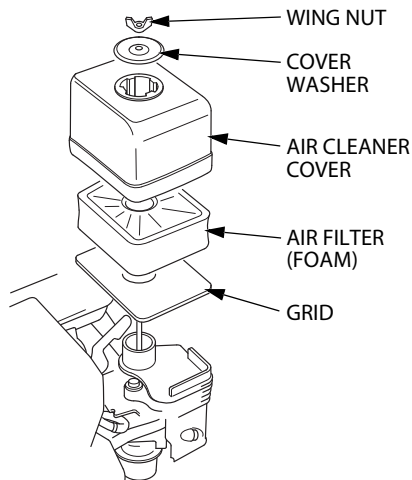
### NOTICE

*Operating the engine without an air filter, or with a damaged air filter, will allow dirt to enter the engine, causing rapid engine wear. This type of damage is not covered under the Distributor's Limited Warranty (U.S.) / Distributor's Warranty (CA.).*

#### <WB20XT>



#### <WB30XT>



# SERVICING YOUR PUMP

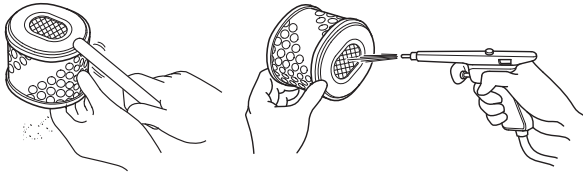
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## AIR FILTER CLEANING

A dirty air filter will restrict air flow to the carburetor, reducing engine performance. If you operate the pump in very dusty areas, clean the air filter more frequently than specified in the *Maintenance Schedule* (see page 27).

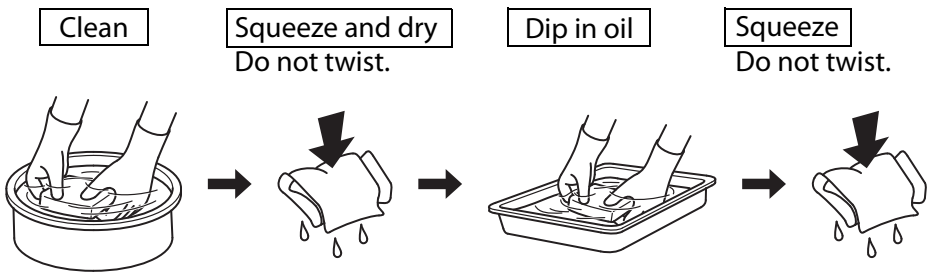
### Paper filter element:

1. Tap the air filter element several times on a hard surface to remove dirt, or blow compressed air [not exceeding 207 kPa (2.1 kgf/cm<sup>2</sup>, 30 psi)] through the air filter from the inside. Never try to brush off dirt; brushing will force dirt into the fibers. Replace the air filter if it is excessively dirty.
2. Wipe dirt from the air cleaner base and cover, using a moist rag. Be careful to prevent dirt from entering the air duct that leads to the carburetor.



### Form filter element:

1. Clean the air filter in warm soapy water, rinse, and allow to dry thoroughly. Or clean in nonflammable solvent and allow to dry.
2. Dip the air filter in clean engine oil, and then squeeze out all excess oil. The engine will smoke when started if too much oil is left in the foam.



3. Wipe dirt from the air cleaner base and cover, using a moist rag. Be careful to prevent dirt from entering the air duct that leads to the carburetor.

## SEDIMENT CUP CLEANING

1. Move the fuel valve lever to the OFF position, then remove the fuel sediment cup and O-ring.

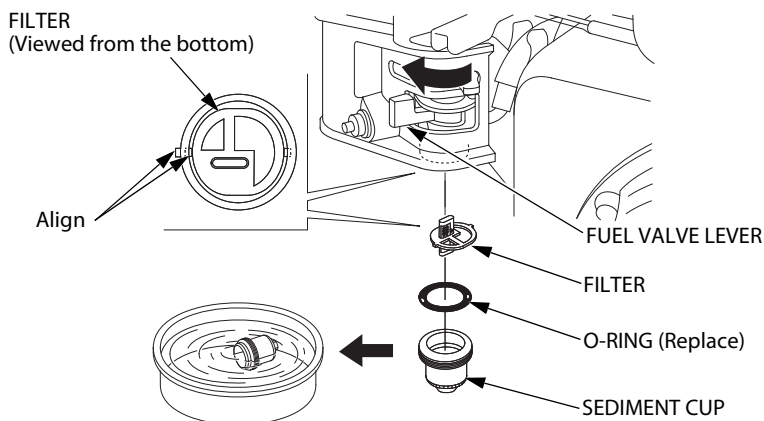
### **⚠ WARNING**

Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

- Stop the engine and let it cool before handling fuel.
- Keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Keep away from your vehicle.
- Wipe up spills immediately.

2. Wash the sediment cup and filter in non-flammable solvent, and dry it thoroughly.
3. Reinstall the filter, new O-ring, and sediment cup. Tighten the sediment cup securely.
4. Move the fuel valve lever to the ON position, and check for leaks.



# SERVICING YOUR PUMP

## SPARK PLUG SERVICE

In order to service the spark plug, you will need a spark plug wrench (commercially available).

Recommended spark plug: BPR6ES (NGK)

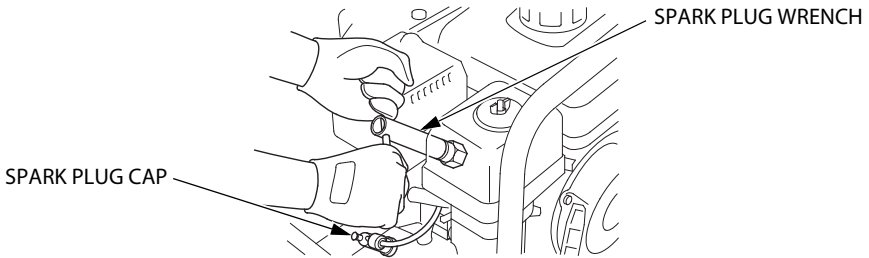
### NOTICE

*Incorrect spark plugs can cause engine damage.*

For good performance, the spark plug must be properly gapped and free of deposits.

Allow the engine to cool before servicing the spark plug.

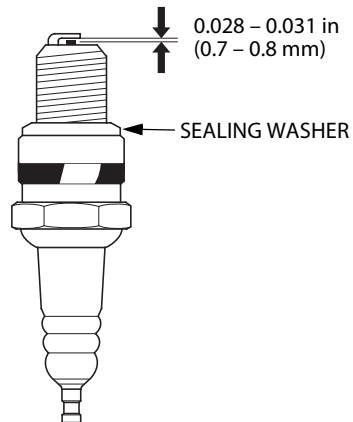
1. Disconnect the spark plug cap, and remove any dirt from around the spark plug area.
2. Remove the spark plug with a 13/16-inch spark plug wrench.



3. Inspect the spark plug. Replace it if the electrodes are worn, or if the insulator is cracked or chipped.
4. Measure the spark plug electrode gap with a suitable gauge. Correct the gap, if necessary, by carefully bending the side electrode.

The gap should be:

0.028—0.031 in (0.7—0.8 mm)



5. Install the spark plug carefully, by hand, to avoid cross-threading.
6. After the spark plug seats, tighten with a 13/16-inch spark plug wrench to compress the washer.

If reinstalling the used spark plug, tighten 1/8—1/4 turn after the spark plug seats.

If installing a new spark plug, tighten 1/2 turn after the spark plug seats.

**TORQUE:** 18 N·m (1.8 kgf·m, 13 lbf·ft)

**NOTICE**

*A loose spark plug can overheat and damage the engine.*

*Overtightening the spark plug can damage the threads in the cylinder head.*

7. Attach the spark plug cap.

# SERVICING YOUR PUMP

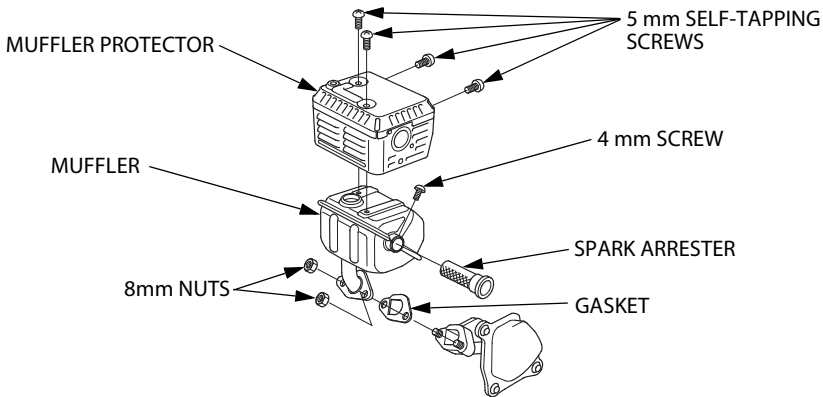
## SPARK ARRESTER SERVICE (optional equipment)

Your engine is not factory-equipped with a spark arrester. In some areas, it is illegal to operate an engine without a spark arrester. Check local laws and regulations. A spark arrester is available from your servicing dealers.

The spark arrester must be serviced every 100 hours to keep it functioning as designed.

If the engine has been running, the muffler will be very hot. Allow the muffler to cool before servicing the spark arrester.

1. Remove the two 8 mm nuts, and remove the muffler.
2. Remove the four 5 mm self-tapping screws, and remove the muffler protector from the muffler.
3. Remove the 4 mm screw from the spark arrester, and remove the spark arrester from the muffler.



4. Use a brush to remove carbon deposits from the spark arrester screen. Be careful to avoid damaging the screen.

The spark arrester must be free of breaks and holes. Replace the spark arrester if it is damaged.



5. Install the spark arrester, muffler protector, and muffler in the reverse order of disassembly using a new gasket.



# STORAGE

## STORAGE PREPARATION

Proper storage preparation is essential for keeping your pump trouble-free and looking good. The following steps will help to keep rust and corrosion from impairing your pump's function and appearance, and will make the engine easier to start when you use the pump again.

### Cleaning

#### 1. Wash the engine and pump.

Wash the engine by hand, and be careful to prevent water from entering the air cleaner or muffler opening. Keep water away from controls and all other places that are difficult to dry, as water promotes rust.

#### NOTICE

- *Using a garden hose or pressure washing equipment can force water into the air cleaner or muffler opening. Water in the air cleaner will soak the air filter, and water that passes through the air filter or muffler can enter the cylinder, causing damage.*
- *Water contacting a hot engine can cause damage. If the engine has been running, allow it to cool for at least half an hour before washing.*

#### 2. Wipe dry all accessible surfaces.

#### 3. Fill the pump chamber with clean, fresh water, start the engine outdoors, and let it run until it reaches normal operating temperature to evaporate any external water.

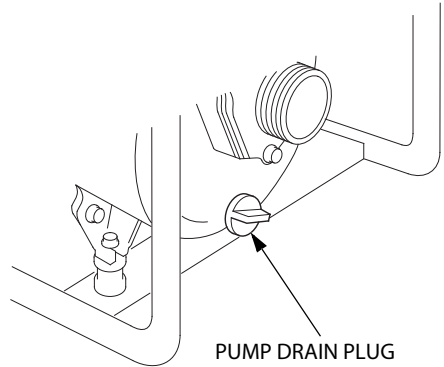
#### NOTICE

*Dry operation will damage the pump seal. Be sure the pump chamber is filled with water before starting the engine.*

# STORAGE

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4. Stop the engine, and allow it to cool.
5. Remove the pump drain plug, and flush the pump with clean, fresh water. Allow the water to drain from the pump chamber, and then reinstall the drain plug.
6. After the pump is clean and dry, touch up any damaged paint, and coat areas that may rust with a light film of oil. Lubricate controls with a silicone spray lubricant.



## Fuel

### NOTICE

*Depending on the region where you operate your equipment, fuel formulations may deteriorate and oxidize rapidly. Fuel deterioration and oxidation can occur in as little as 30 days and may cause damage to the carburetor and/or fuel system. Please check with your servicing dealer for local storage requirements.*

Gasoline will oxidize and deteriorate in storage. Old gasoline will cause hard starting, and it leaves gum deposits that clog the fuel system. If the gasoline in your engine deteriorates during storage, you may need to have the carburetor and other fuel system components serviced or replaced.

The length of time that gasoline can be left in your fuel tank and carburetor without causing functional problems will vary with such factors as gasoline blend, your storage temperatures, and whether the fuel tank is partially or completely filled. The air in a partially filled fuel tank promotes fuel deterioration. Very warm storage temperatures accelerate fuel deterioration. Fuel deterioration problems may occur within a few months, or even less if the gasoline was not fresh when you filled the fuel tank.

The *Distributor's Limited Warranty (U.S.) / Distributor's Warranty (CA.)* does not cover fuel system damage or engine performance problems resulting from neglected storage preparation.

You can extend fuel storage life by adding a fuel stabilizer that is formulated for that purpose, or you can avoid fuel deterioration problems by draining the fuel tank and carburetor.

## ***Adding a Fuel Stabilizer to Extend Fuel Storage Life***

### **Short Term Storage (30—90 days)**

If your equipment will not be used for 30—90 days, we recommend the following to prevent fuel-related problems:

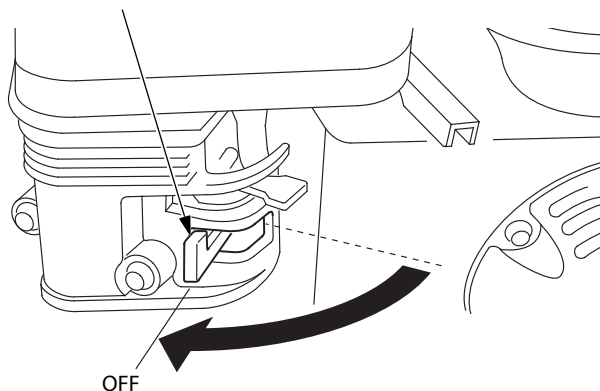
1. Add fuel stabilizer following the manufacturer's instructions.  
When adding a fuel stabilizer, fill the fuel tank with fresh gasoline. If only partially filled, air in the tank will promote fuel deterioration during storage. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline.
- If it takes more than 3 months to use the fuel in your storage container, we suggest adding a fuel stabilizer to the fuel when you full the container.
2. After adding a fuel stabilizer, fill the pump chamber with water and run the engine outdoors for 10 minutes to be sure that treated gasoline has replaced the untreated gasoline in the carburetor.

#### **NOTICE**

*Dry operation will damage the pump seal. Be sure the pump chamber is filled with water before starting the engine.*

3. Stop the engine, and move the fuel valve lever to the OFF position.
4. Remove the pump drain plug, and allow the water to drain from the pump chamber. Reinstall the drain plug.

FUEL VALVE LEVER



# STORAGE

## Long Term or Seasonal Storage (greater than 90 days)

### *Draining the Fuel Tank and Carburetor*

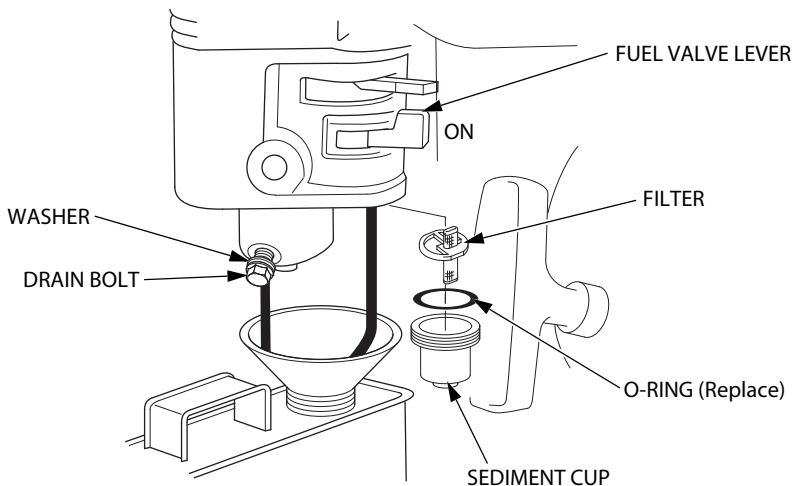
1. Place an approved gasoline container below the carburetor, and use a funnel to avoid spilling fuel.
2. Move the fuel valve lever to the OFF position, loosen the carburetor drain bolt by turning 1 to 2 turns counterclockwise and drain the fuel in the carburetor.
3. Remove the sediment cup, and then move the fuel valve lever to the ON position and drain the fuel in the fuel tank.

### **⚠ WARNING**

Gasoline is highly flammable and explosive.

You can be burned or seriously injured when handling fuel.

- Stop the engine and let it cool before handling fuel.
- Keep heat, sparks, and flame away.
- Handle fuel only outdoors.
- Keep away from your vehicle.
- Wipe up spills immediately.



4. After all fuel has drained into the container, tighten the carburetor drain bolt securely.
5. Reinstall a new O-ring and sediment cup.
6. Move the fuel valve lever to the OFF position.

### **Engine Oil**

Change the engine oil (see page 31).

### **Engine Cylinder**

1. Remove the spark plug (see page 36).
2. Pour a teaspoon (5 cc) of clean engine oil into the cylinder.
3. Pull the starter grip several times to distribute the oil in the cylinder.
4. Reinstall the spark plug.
5. Pull the recoil starter grip slowly until resistance is felt. This will close the valves so moisture cannot enter the engine cylinder. Return the recoil starter grip gently.

# STORAGE

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## STORAGE PRECAUTIONS

If your pump will be stored with gasoline in the fuel tank and carburetor, it is important to reduce the hazard of gasoline vapor ignition. Select a well-ventilated storage area away from any appliance that operates with a flame, such as a furnace, water heater, or clothes dryer. Also avoid any area with a spark-producing electric motor or where power tools are operated.

If possible, avoid storage areas with high humidity, because that promotes rust and corrosion.

Unless all fuel has been drained from the fuel tank, leave the fuel valve lever in the OFF position to reduce the possibility of fuel leakage.

Place the pump on a level surface. Tilting can cause fuel or oil leakage.

With the engine and exhaust system cool, cover the pump to keep out dust. A hot engine and exhaust system can ignite or melt some materials. Do not use a plastic sheet as a dust cover. A nonporous cover will trap moisture around the pump, promoting rust and corrosion.

## REMOVAL FROM STORAGE

Check your pump as described in the *BEFORE OPERATION* chapter of this manual.

If the fuel was drained during storage preparation, fill the tank with fresh gasoline. If you keep a container of gasoline for refueling, be sure that it contains only fresh gasoline. Gasoline oxidizes and deteriorates over time, causing hard starting.

If the cylinder was coated with oil during storage preparation, the engine may smoke briefly at startup. This is normal.

# TRANSPORTING

If the pump has been running, allow the engine to cool for at least 15 minutes before loading the pump on the transport vehicle. A hot engine and exhaust system can burn you and can ignite some materials.

Keep the pump level when transporting to reduce the possibility of fuel leakage. Move the fuel valve lever to the OFF position.

# TAKING CARE OF UNEXPECTED PROBLEMS

## ENGINE

### Engine Will Not Start

Possible Cause	Correction
Fuel valve OFF.	Move fuel valve lever to ON position.
Choke open.	Move choke lever to CLOSED position unless engine is warm.
Ignition switch OFF.	Turn ignition switch to ON.
Out of fuel.	Refuel (p. 28).
Bad fuel; pump stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank and carburetor (p. 42). Refuel with fresh gasoline (p. 28).
Spark plug faulty, fouled, or improperly gapped.	Gap or replace spark plug (p. 36).
Spark plug wet with fuel (flooded engine).	Dry and reinstall spark plug. Start engine with throttle lever in FAST position.
Fuel filter clogged, carburetor malfunction, ignition malfunction, valves stuck, etc.	Take the pump to your servicing dealer, or refer to shop manual.

### Engine Lacks Power

Possible Cause	Correction
Air filter clogged.	Clean or replace filter (p. 34).
Bad fuel; pump stored without treating or draining gasoline, or refueled with bad gasoline.	Drain fuel tank and carburetor (p. 42). Refuel with fresh gasoline (p. 28).
Throttle lever in slow position.	Move throttle to the FAST position.
Fuel filter clogged, carburetor malfunction, ignition malfunction, valves stuck, etc.	Take the pump to your servicing dealer, or refer to shop manual.



# TAKING CARE OF UNEXPECTED PROBLEMS

## PUMP

### No Pump Output

Possible Cause	Correction
Pump is placed on inappropriate places.	Place the pump on a firm, level surface.
Pump not primed.	Prime pump (p. 19)
Hose collapsed, cut or punctured.	Replace suction hose (p. 17).
Strainer not completely underwater.	Sink the strainer and the end of the suction hose completely underwater.
Air leak at connector.	Replace sealing washer if missing or damaged. Tighten hose connector and clamp (p. 17).
Strainer clogged.	Clean debris from strainer.
Strainer damaged.	Replace strainer (p. 17).
Excessive head.	Relocate pump and/or hoses to reduce head (p. 16).
Engine lacks power.	See page 46.

### Low Pump Output

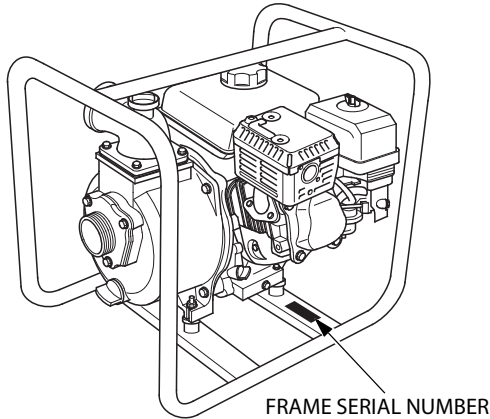
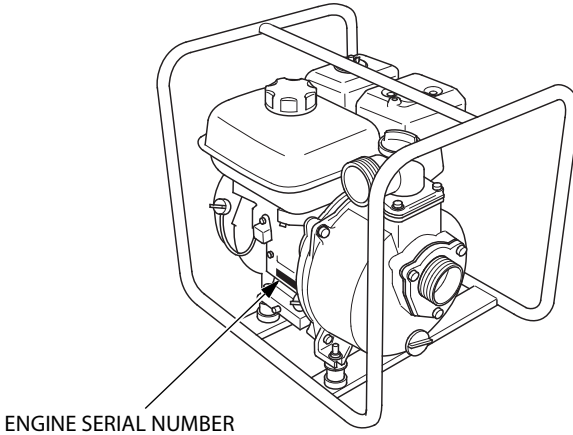
Possible Cause	Correction
Pump is placed on inappropriate places.	Place the pump on a firm, level surface.
Hose collapsed, damaged, too long, or diameter too small.	Replace suction hose (p. 17).
Air leak at connector.	Replace sealing washer if missing or damaged. Tighten hose connector and clamp (p. 17).
Strainer clogged.	Clean debris from strainer.
Strainer damaged.	Replace strainer (p. 17).
Hose damaged, too long, or diameter too small.	Replace discharge hose (p. 18).
Marginal head.	Relocate pump and/or hoses to reduce head (p. 16).
Engine lacks power.	See page 46.

# TECHNICAL INFORMATION

## Serial Number Location

<WB20XT>

<WB30XT>



Record the frame serial number, the engine serial number, and the date of purchase in the spaces below. You will need this information when ordering parts and when making technical or warranty inquiries (see page 57).

Engine serial number: \_\_\_\_\_

Frame serial number: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

## Carburetor Modification for High Altitude Operation

At high altitude, the standard carburetor air-fuel mixture will be too rich. Performance will decrease, and fuel consumption will increase. A very rich mixture will also foul the spark plug and cause hard starting. Operation at an altitude that differs from that at which this engine was certified, for extended periods of time, may increase emissions.

High altitude performance can be improved by specific modifications to the carburetor. If you always operate your pump at altitudes above 2,000 feet (610 meters), have your servicing dealer perform this carburetor modification. This engine, when operated at high altitude with the carburetor modifications for high altitude use, will meet each emission standard throughout its useful life.

Even with carburetor modification, engine horsepower will decrease about 3.5% for each 1,000-foot (300-meter) increase in altitude. The effect of altitude on horsepower will be greater than this if no carburetor modification is made.

### NOTICE

*When the carburetor has been modified for high altitude operation, the air-fuel mixture will be too lean for low altitude use. Operation at altitudes below 2,000 feet (610 meters) with a modified carburetor may cause the engine to overheat and result in serious engine damage. For use at low altitudes, have your servicing dealer return the carburetor to original factory specifications.*

# TECHNICAL INFORMATION

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## EMISSION CONTROL SYSTEM INFORMATION

### Source of Emissions

The combustion process produces carbon monoxide, oxides of nitrogen, and hydrocarbons. Control of hydrocarbons and oxides of nitrogen is very important because, under certain conditions, they react to form photochemical smog when subjected to sunlight. Carbon monoxide does not react in the same way, but it is toxic.

Honda utilizes appropriate air/fuel ratios and other emissions control systems to reduce the emissions of carbon monoxide, oxides of nitrogen, and hydrocarbons.

Additionally, Honda fuel systems utilize components and control technologies to reduce evaporative emissions.

### The U.S. and California Clean Air Acts, and Environment and Climate Change Canada (ECCC)

U.S. EPA, California and Canadian regulations require all manufacturers to furnish written instructions describing the operation and maintenance of emission control systems.

The following instructions and procedures must be followed in order to keep the emissions from your Honda engine within the emission standards.

### Tampering and Altering

#### NOTICE

*Tampering is a violation of federal and California law.*

Tampering with or altering the emission control system may increase emissions beyond the legal limit. Among those acts that constitute tampering are:

- Removal or alteration of any part of intake, fuel, or exhaust systems.
- Alterations that would cause the engine to operate outside its design parameters.

## Problems That May Affect Emissions

If you are aware of any of the following symptoms, have your engine inspected and repaired by your authorized Honda Power Equipment dealer.

- Hard starting or stalling after starting.
- Rough idle.
- Misfiring or backfiring under load.
- Afterburning (backfiring).
- Black exhaust smoke or high fuel consumption.

## Replacement Parts

The emissions control systems on your new Honda engine were designed, built, and certified to conform with EPA, California (models certified for sale in California only), and Canadian emissions regulations. We recommend the use of Honda Genuine parts whenever you have maintenance done. These original design replacement parts are manufactured to the same standards as the original parts, so you can be confident of their performance. Honda cannot deny coverage under the emission warranty solely for the use of non-Honda replacement parts or service performed at a location other than an authorized Honda dealership; you may use comparable EPA certified parts, and have service performed at non-Honda locations. However, the use of replacement parts that are not of the original design and quality may impair the effectiveness of your emissions control system.

A manufacturer of an aftermarket part assumes the responsibility that the part will not adversely affect emissions performance. The manufacturer or rebuilder of the part must certify that use of the part will not result in a failure of the engine to comply with emissions regulations.

## Maintenance

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

Follow the MAINTENANCE SCHEDULE on page 27.

Remember that this schedule is based on the assumption that your Honda engine product will be used for its designed purpose.

Sustained high-load or high-temperature operation, or use in dusty conditions, will require more frequent service.

# TECHNICAL INFORMATION

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## **Air Index (Models certified for sale in California)**

An Air Index Information label is applied to engines certified to an emission durability time period in accordance with the requirements of the California Air Resources Board.

The bar graph is intended to provide you, our customer, the ability to compare the emissions performance of available engines. The lower the Air Index, the less pollution.

The durability description is intended to provide you with information relating to the engine's emission durability period. The descriptive term indicates the useful life period for the engine's emission control system. See your "EMISSION CONTROL SYSTEM WARRANTY" (see page 53) for additional information.

<b>Descriptive Term</b>	<b>Applicable to Emission Durability Period</b>
Moderate	50 hours (0–80 cc, inclusive) 125 hours (greater than 80 cc)
Intermediate	125 hours (0–80 cc, inclusive) 250 hours (greater than 80 cc)
Extended	300 hours (0–80 cc, inclusive) 500 hours (greater than 80 cc) 1,000 hours (225 cc and greater)

## EMISSION CONTROL SYSTEM WARRANTY

Your Honda Power Equipment engine is designed, built, and equipped to meet the U.S. EPA, Environment Canada, and California Air Resources Board (models certified for sale in California only) emission standard for spark ignited engines. American Honda Motor provides the emission warranty coverage for engines in the United States and its territories. Honda Canada provides the emission warranty for engines in the 13 provinces and territories of Canada.

### Warranty Coverage

Honda Power Equipment engines certified to the U.S. EPA, Environment Canada, and State of California (models certified for sale in California only) emission regulations are covered by this warranty to be free from defects in materials and workmanship that may keep it from meeting the applicable U.S. EPA, CARB and Canadian emissions requirements for a minimum of 2 years or the length of the Honda Power Equipment Distributor's Limited Warranty, whichever is longer, from the original date of delivery to the retail purchaser. This warranty is transferable to each subsequent purchaser for the duration of the warranty period. Warranty repairs will be made without charge for diagnosis, parts, and labor. Information about how to make a warranty claim, as well as a description of how a claim can be made and/or how service can be provided, can be obtained by contacting an authorized Honda Power Equipment dealer or by contacting the following:

Email: [powerequipmentemissions@ahm.honda.com](mailto:powerequipmentemissions@ahm.honda.com)

Telephone: (888) 888-3139

The covered components include all components whose failure would increase an engine's emissions of any regulated pollutant or evaporative emissions. A list of specific components can be found in the separately included emissions warranty statement.

Specific warranty terms, coverage, limitations, and manner of seeking warranty service are also set forth in the separately included emissions warranty statement. In addition, the emission warranty statement can also be found on the Honda Power equipment website or at the following link:

<http://powerequipment.honda.com/support/warranty>

# TECHNICAL INFORMATION

## Specifications

### Dimensions and weight

Model	WB20XT4	
Description code	WABT	
Type	A	C
Length	19.3 in (490 mm)	
Width	14.4 in (365 mm)	
Height	16.5 in (420 mm)	
Dry mass [weight]	46 lbs (21 kg)	

### Engine design and performance

Model	GX120T3
Engine type	4-stroke, overhead valve, single cylinder
Displacement [bore×stroke]	7.4 cu-in (122 cm <sup>3</sup> ) [2.4×1.7 in (60.0×43.5 mm)]
Fuel tank capacity	0.53 US gal (2.0 L)
Cooling system	Forced air
Ignition system	Transistorized magneto
PTO shaft rotation	Counterclockwise

### Tune-up Specifications

Spark plug gap	0.028—0.031 in (0.70—0.80 mm)	See page 36.
Idle speed	1,400 <sup>+200</sup> <sub>-150</sub> rpm	See your servicing dealer.
Valve clearance (cold)	Intake: 0.08±0.02 mm Exhaust: 0.10±0.02 mm	See your servicing dealer.
Other specifications	No other adjustments needed.	

### Pump

Suction port diameter	2.0 in (50 mm)
Discharge port diameter	2.0 in (50 mm)
Maximum total head	Minimum 105.0 ft (32 m)
Maximum suction head	Minimum 24.6 ft (7.5 m)
Maximum discharge capacity	Minimum 163.8 US gal (620 L) /min
Priming time	Maximum 110 seconds / 16.4 ft (5 m)



## Dimensions and weight

Model	WB30XT3	
Description code	WACT	
Type	A	C1
Length	20.1 in (510 mm)	
Width	15.2 in (385 mm)	
Height	17.9 in (455 mm)	
Dry mass [weight]	57 lbs (26 kg)	

## Engine design and performance

Model	GX160T2
Engine type	4-stroke, overhead valve, single cylinder
Displacement [bore×stroke]	9.9 cu-in (163 cm <sup>3</sup> ) [2.7×1.8 in (68.0×45.0 mm)]
Fuel tank capacity	0.82 US gal (3.1 L)
Cooling system	Forced air
Ignition system	Transistorized magneto
PTO shaft rotation	Counterclockwise

## Tune-up Specifications

Spark plug gap	0.028—0.031 in (0.70—0.80 mm)	See page 36.
Idle speed	1,400 <sup>+200</sup> <sub>-150</sub> rpm	See your servicing dealer.
Valve clearance (cold)	Intake: 0.08±0.02 mm Exhaust: 0.10±0.02 mm	See your servicing dealer.
Other specifications	No other adjustments needed.	

## Pump

Suction port diameter	3.1 in (80 mm)
Discharge port diameter	3.1 in (80 mm)
Maximum total head	Minimum 75.5 ft (23 m)
Maximum suction head	Minimum 24.6 ft (7.5 m)
Maximum discharge capacity	Minimum 290.6 US gal (1,100 L) /min
Priming time	Maximum 150 seconds / 16.4 ft (5 m)

# CONSUMER INFORMATION

## **Dealer Locator Information**

To find an authorized Honda Servicing Dealer

For USA:

Visit our website: <http://powerequipment.honda.com/dealer-locator>

For Canada:

Call 1-888-946-6329 or visit our website:

English

<http://powerequipment.honda.ca/dealerlocator>

French

<http://powerequipment.honda.ca/trouver-concessionnaire>

## **Honda Publications**

### ***Shop Manual***

This manual covers complete maintenance and overhaul procedures. It is intended to be used by a skilled technician.

For USA:

Available through your Honda dealer or visit

<http://powerequipment.honda.com/support/shop-manuals>

For Canada:

Contact your dealer for information on the Shop Manual.

### ***Parts Catalog***

For USA:

This manual provides complete, illustrated parts lists. Available through your Honda dealer.

For Canada:

Contact your dealer for information on parts.

## Customer Service Information

Honda Power Equipment dealership personnel are trained professionals. They should be able to answer any question you may have. If you encounter a problem that your dealer does not solve to your satisfaction, please discuss it with the dealership's management. The Service Manager or General Manager can help. Almost all problems are solved in this way.

If you are dissatisfied with the decision made by the dealership's management, contact the Honda Power Equipment Customer Relations Office. You can write to:

American Honda Motor Co., Inc.  
Power Equipment Division  
Customer Relations Office  
4900 Marconi Drive  
Alpharetta, Georgia 30005-8847

Telephone: (770) 497-6400 M-F, 9:00 am to 7:30 pm ET

In Canada:  
Honda Canada, Inc.  
Customer Relations Department  
180 Honda Boulevard  
Markham, Ontario L6C 0H9  
Tel: 1-888-946-6329 (Toll free)  
Fax: 1-877-939-0909 (Toll free)  
E-mail: [honda\\_cr@ch.honda.com](mailto:honda_cr@ch.honda.com)

When you write or call, please give us this information:

- Model and serial numbers (see page 48)
- Name of the dealer who sold the Pump to you
- Name and address of the dealer who services your Pump
- Date of purchase
- Your name, address and telephone number
- A detailed description of the problem

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# QUICK REFERENCE INFORMATION

Fuel	Type	Regular unleaded gasoline with an ethanol content of no more than 10% and a pump octane rating of 86 or higher (see page 29)
Engine Oil	Type	SAE 10W-30, API SJ, for general use (see page 32)
	Capacity	WB20XT: 0.59 US qt (0.56 L) WB30XT: 0.61 US qt (0.58 L)
Spark Plug	Type	NGK: BPR6ES
	Gap	0.028—0.031 in (0.7—0.8 mm) (see page 36)
Carburetor	Idle speed	1,400 <sup>+200</sup> <sub>-150</sub> rpm
Maintenance	Before each use	Check engine oil level. Check air filter.
	First 20 hours	Change engine oil.
	Subsequent	Refer to the maintenance schedule on page 27.

# HONDA

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