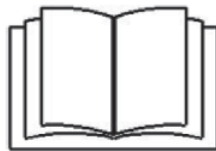
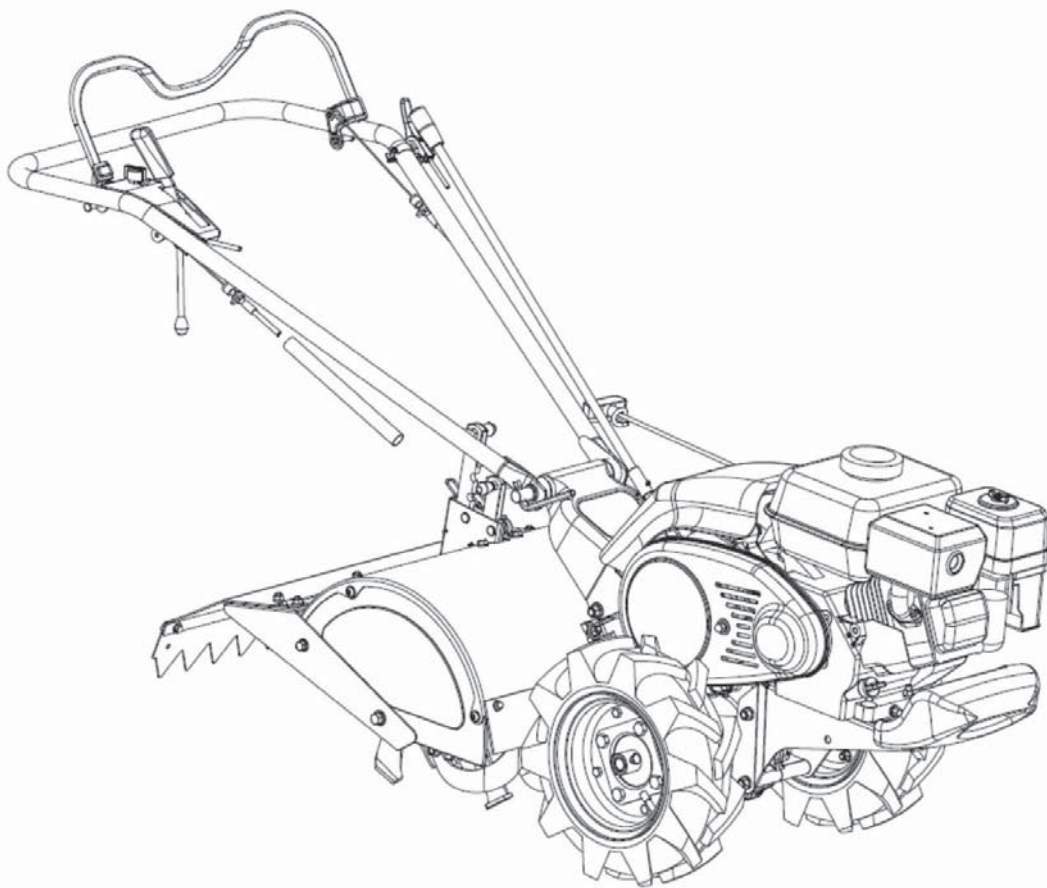


OWNER'S MANUAL

OREC[®]

A M E R I C A

SF600



Read this instruction manual carefully before any use of the machine, keep it as a reference. Also, the engine manual is included as a set with the owners manual. Please read both carefully.

For any questions about this manual, please contact your OREC dealer, the distributor in your country, or go to : <http://www.orecamerica.com>

0031-71010

Getting Started

Thank you for purchasing this machine. These instructions explain the correct and easy way to always keep this machine in fine working order and operate it safely.

Please read these instructions fully before using this machine in order to understand the safest, most efficient way of operating it, and the correct way maintain it.

Please keep these instructions in a safe place where they can be easily referred to at any time. We hope you will use this machine for many years to come.

Please understand that ongoing enhancements in quality and performance, and other possible parts improvements may cause the actual machine to vary slightly from what is described in these instructions.




Machine Regulations

This machine is designed to cut overgrown weeds and brush, and is not a lawn mower. Therefore it can not offer the same quality cut as a finishing mower.

This machine is designed mainly for commercial and agricultural users.

Definitions and Signs

In these instructions, the following signs and definitions are used to indicate the level of danger that exists. Please adhere to the following warnings and have a full understanding of the meaning of the signs.

Sign	Definition
 DANGER	Displayed when failure to obey instructions can result in death or serious injury.
 WARNING	Displayed when there is a danger of death or serious injury.
 CAUTION	Displayed when failure to follow instructions can result in injury, or when not attending to the machine and correcting it can also result in injury.
NOTICE	Displayed when it is important to know about operation and maintenance specific to this machine, or at times when misunderstanding and mistakes are common.

Contents

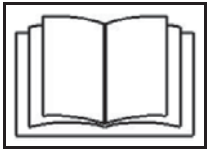
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For Safe Operation

Please read these instructions regarding safety and operation before operating this machine.
In order for this machine to satisfactorily demonstrate its true performance, please perform regular maintenance and inspection

Warning Symbols

The warning symbols are attached to the machine to draw attention to particularly serious dangers.
Please be sure to fully understand the meaning of each warning symbol before operating this machine.



- Read the safety and operating manual.



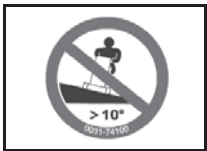
- Remove all objects that could be thrown by the tines. Beware of thrown objects.



- Pinch hazard. Keep body parts away from rotating parts



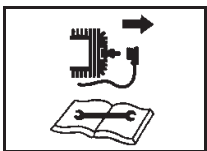
- Always wear safety glasses and ear protection while operating



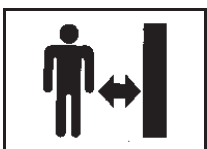
- Do NOT use on slopes of more than 10 degrees



- Keep body parts away from rotating tines



- For safety, disconnect the spark plug when performing inspections and maintenance



- Do not operate the machine near people or animals.
Stand clear the machine.



0215-83200



0031-74100



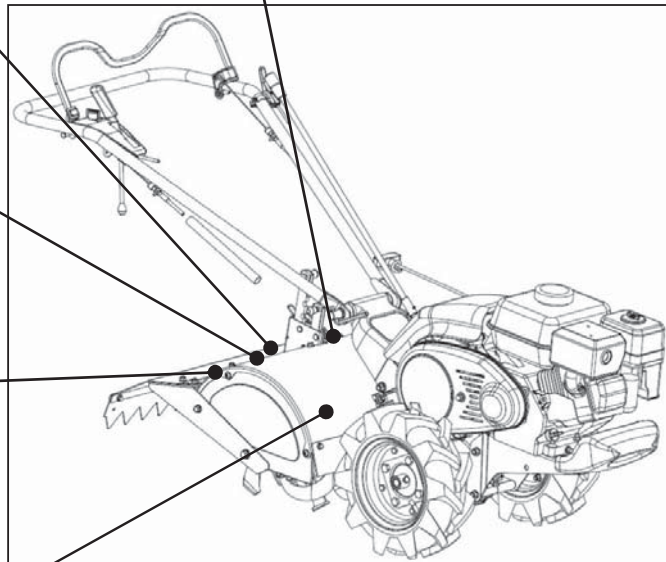
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83-1260-909-10



80-1488-928-10



NOTICE

- In the case that these warning symbols become difficult to see, please replace them so that they can be easily seen und understood.

Important Safety Points

This machine is equipped with a high-powered engine and fast moving tines. Misuse of this machine can result in serious injury or death. Before using this machine, please be sure to read these instructions and understand and adhere to the following warnings

■Notes for the operator of this machine.

WARNING

- The operator of this machine should fully read these instructions. You can safely use this machine only after gaining a full understanding of its operation and safety use guidelines.
- Operate this machine only after fully reading and understanding the included engine's instructions.
- The operation and maintenance of this machine should only be performed by trained persons
- Do not allow children, expectant mothers or any untrained person to use this machine, accident and injury can result. Also, please check and observe local laws which may place age limits on the operation of machinery.
- Do not operate if suffering from overwork or illness or if under the influence of alcohol or drugs. Accidents and injury can result.

■When lending this machine to another person

WARNING

When lending this machine to another person it is the owner's responsibility that the following measures are carried out.

- The owner should explain how to operate the machine and require the new operator to fully read these instructions. The owner should then guide the new operator until they have a comprehensive understanding of the machine's operation and safety guidelines. The owner should lend these instructions to the new operator with the machine.
- **When lending this machine to a person who can not read English, the owner should take responsibility for fully explaining its safe operation.**
- The owner holds responsibility for the management of this machine, including checking that all parts are correctly attached and that all functions are working correctly before lending it to anyone.

■Managing gasoline safely

DANGER

- Absolutely do not handle gasoline in the presence of lit cigarettes, open flame, or other sources of ignition. Gasoline is an extremely flammable liquid and its high volatility means there is a danger of fire and explosions.
- Do not use a type of gasoline other than that described. There is a danger of fire and explosions.

WARNING

- Store gasoline and oil safely away from sources of flame and places where children can easily reach. Accidents and injury can result.
- Please refuel in a place that is well ventilated. As gasoline is a highly volatile substance, there is a danger that you will feel unwell if you operate the machine in a poorly ventilated place.
- Do not open the fuel cap while running the engine.
- When refueling, be sure to stop the engine and allow it to cool down. There is a danger of suffering burns.

- When refueling, be sure not to fill the fuel tank over the maximum level. If you do overfill the fuel tank, remove fuel until it sits below the maximum level. Over-fueling can cause fire and other accidents.
- After refueling, securely close the fuel cap and store the machine in a safe place with no sources of ignition. There is a danger of fire.
- If you spill gasoline, move the machine a safe distance away without starting the engine. Starting the machine in close proximity to a fuel spill can result in a fire or other accident. Use a waste cloth to wipe away the spill and dispose of the cloth in accordance with local laws.
- Be sure to change your clothes immediately if they come into contact with gasoline. There is a danger that any gasoline on your clothes could ignite or cause you to feel unwell.
- Do not refuel in places such as inside a car or on a truck, they could move unexpectedly. Refuel after placing your fuel container safely on the ground, away from vehicles.
Fuel spills can cause fire and other accidents.
- Do not remove the refueling nozzle from the fuel tank until you have finished refueling.
Fuel spills can cause fire and other accidents.

■ Caution when starting the engine

DANGER

- Do not modify the engine as this can cause accidents or explosions. You will bear responsibility for any accidents or problems caused by modification. Also, trying to claim compensation in such cases will be ineffective
- Do not try to alter the position of the engine governor or change the set rotation speeds.
- Do not run the engine in a place that is poorly ventilated. Engine exhaust is odorless and contains carbon monoxide which can cause death or serious injury.

WARNING

- Do not allow highly flammable substances near the engine or the path of the exhaust as this can cause a fire.
- Do not touch the engine or muffler as they become extremely hot during operation and can cause severe burns.
- Do not allow weeds and leaves to accumulate in the engine, especially in the recoil cover, airfilter, and near to the muffler. Overheating and fire can result.
- Ensure that the clutch lever is in the [OFF] position, the speed change lever is in the [N] position, before starting the engine. Not taking precautions when starting the engine can cause injury and accidents.
- After starting the engine with the clutch lever in the [OFF] position, check the belt to be absolutely certain that it is not moving. If the belt is moving even a little, immediately switch off the engine and adjust the belt guard and the wire. Not taking precautions can cause injury and accidents.

■ Caution when loading and unloading

WARNING

- When loading or unloading using a truck, proceed carefully and be certain to park on a flat and safe surface. A truck moving suddenly could cause injury and accidents.
- Attach a gently sloping ramp securely to the truck's loading platform and lower the running of the engine. The speed change lever should be put in the forward [1] position for loading, and in the reverse [R] position for unloading. Proceed with caution as injury and accidents can be caused by the machine tipping over or running out of control.

■ Before operating the machine

WARNING

- Absolutely do not try to modify this machine (including modification of the protective cover and safety cover) as this can cause injury and accidents. You will bear responsibility for any accidents or problems caused by modification. Orec America will not bear any responsibility for modified machines.
 - Do not change or tamper with the safety apparatus. Inspection should be performed periodically to ensure the safety apparatus is working correctly.
 - For safety reasons, use the recommended accessories and attachments that are best suited to the ground you are working on and the type of work you are performing
 - This machine can not be ridden, do not try to ride it or allow children or pets to ride on it. This can cause injury to people/pets and damage to the machine.
 - Wear suitable clothing when operating this machine. Please wear the following items to protect against injury and reduce the possibility of accidents.
 - Long sleeves, long pants
 - Non-slip shoes
 - Helmet
 - Protective glasses
 - Gloves
 - Ear protection, etc.
- Cuffs, hems of loose clothing, and jewelry can become entangled in the machine. Avoid wearing such items to help prevent injury and accidents. Long hair should be tied up inside a helmet.
- Ensure that no part of your body comes into contact with the moving tines of this machine. There is the possibility of serious injury such as the severing of hands and feet.
 - Do not remove any parts of this machine that have been fitted as standard. To prevent accidents, be sure to use all covers and parts in the same state as they have been fitted.
 - Be sure that there are no people, animals or vehicles close by. Not taking precautions can cause injury and accidents.
 - Before starting, remove any rocks or branches that could be thrown and cause injury to bystanders or damage to the machine
 - Use this machine during daylight or with sufficient artificial light. Do not operate this machine at night when poor visibility will not allow you to be completely aware of your surroundings. Being unable to notice dangerous objects and bystanders is a cause of injury and accidents.
 - Absolutely do not operate this machine in places where there are dangerous drops, ditches or embankments. Accidents can be caused by the machine tipping over.
 - Do not use this machine on wet grass. It is easy to slip on wet grass, causing injury and accidents.

■ Spark arrester (optional)

WARNING

- This product is NOT equipped with a spark arrester. In some areas, it is illegal to operate the engine without a spark arrester. Please check local laws and regulations. An optional USDS approved spark arrester is available through your engine service dealer.

Spark arrestor (Honda) item code: 18355-ZL0-000

■Caution during operation

WARNING

- During operation, tines and belts are hidden by a cover, be sure to keep hands and feet well away. Touching these parts can cause serious injury such as the severing of hands and feet.
- During operation, the rotating tines come right to the edge of the tine cover. Absolutely do not put your feet inside the cover. Not taking precautions can cause injury.
- Before removing entangled grass or other foreign objects from the tines, be sure to stop the engine and remove the spark plug cord. Check that the tines have stopped moving before carefully removing any entangled material.
- Be sure that there are no people, animals or vehicles close by. When operating this machine, always maintain a distance of 100 FEET between you and bystanders. If people or animals come near, release the clutch and switch off the engine. Not taking precautions can cause injury and accidents.
- For safety reasons, do not make sudden starts/stops or sharp turns.
- Take care to move and turn the machine gently, and stop the tines when not tilling
Not taking precautions can cause injury and accidents
- The operator should always be behind the machine during use (handlebar side). When this machine's engine is running, do not stand in front of the path where you are tilling.
Not taking precautions can cause injury and accidents.

- If you notice any strange noises, smells, heat, or vibrations during the operation of this machine, switch off the engine immediately, remove the spark plug cord and ensure that all movable parts have completely stopped. Be sure to have the machine inspected for damage and obstructions and have any damaged parts repaired.
- Watch for holes in the ground and protruding tree roots. Also look out for obstructions that could be buried in ground. The handlebars can be taken from your control, causing injury and accidents.
- Be careful when approaching blind corners, bushes, and trees which block your line of sight. Such obstructions can hide children and animals from view.
- Do not operate this machine in the direction of rivers and drop-offs, people and buildings.
Accidents can be caused by falls and collisions.
- When moving the machine backwards, check that there are no people or obstacles behind you and that you have a secure foothold. When reversing, there is a danger of being trapped between the machine and a wall or falling from drop-offs.
- Exercise caution when operating the machine alongside fences, buildings and trees.
The machine's handlebars can be taken from your control if you come into contact with obstacles, possibly causing injury and accidents.
- Do not leave the machine unattended with the engine running. When leaving the machine unattended, park on a flat surface with the engine switched off, put the drive clutch lever in [OFF]. Injury and accidents can be caused if the machine moves while unattended

CAUTION

- When operating the machine close to buildings, or trees, take care not to cause accidents and damage by crashing into them. If you do hit something, switch off the engine immediately. Confirm that the tines have stopped moving and then check them for damage such as bending and cracking. Check all areas of the machine for damage and have parts repaired or replaced if necessary

■Using the machine on slopes

WARNING

When operating on slopes, serious accidents can be caused by you slipping and the machine rolling over. Be especially careful when working in such areas and stop operating the machine immediately if you feel in any danger at all.

- Do not operate the machine on slopes of more than 15°.
- Till across the face of slopes; never up and down. The handlebars can be taken from your control, or rollover, causing injury and accidents
- When changing direction on a slope, do it slowly and carefully. The machine could roll over, causing injury and accidents.
- Do not operate the machine on wet slopes. There is a danger of slipping, causing injury.
- Watch for holes in the ground and protruding tree roots. Also look out for obstructions that could be buried in ground. The handlebars can be taken from your control, causing injury and accidents.
- When operating on slopes, do not leave the machine with its clutch off or the speed change lever in neutral. The machine could run out of control, causing injury and accidents.

■Children

WARNING

When operating this machine, be particularly aware of children. Children are often interested in tillers and may be curious. As children may not be concentrating on their surroundings, accidents can occur if you take your eyes off them. Please treat the following points with great care.

- Do not allow children to come into the area where you are working. Make sure that young children are securely in the care of an adult other than the operator.
- Switch off the engine immediately if children enter the area where you are working.
- Do not allow children to operate the machine. Check and obey local laws which may place age limits on the operation of machinery
- Be careful when approaching blind corners, bushes, and trees which block your line of sight. Such obstructions can hide children from view.

■Maintenance

WARNING

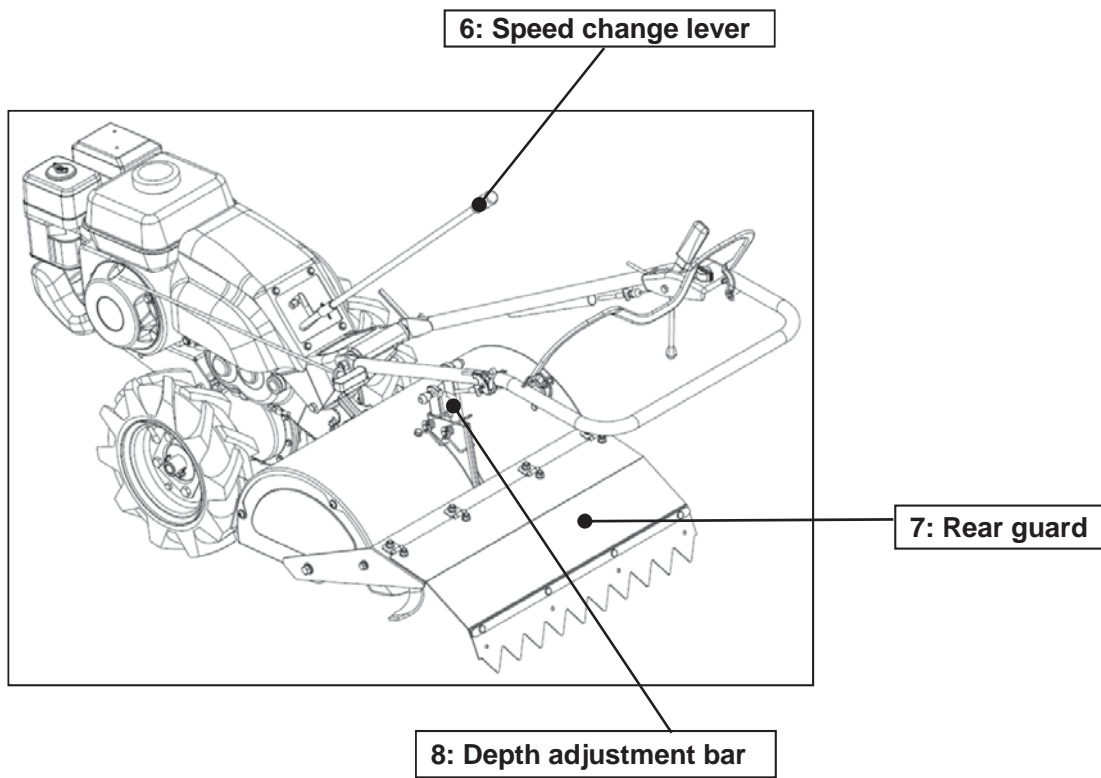
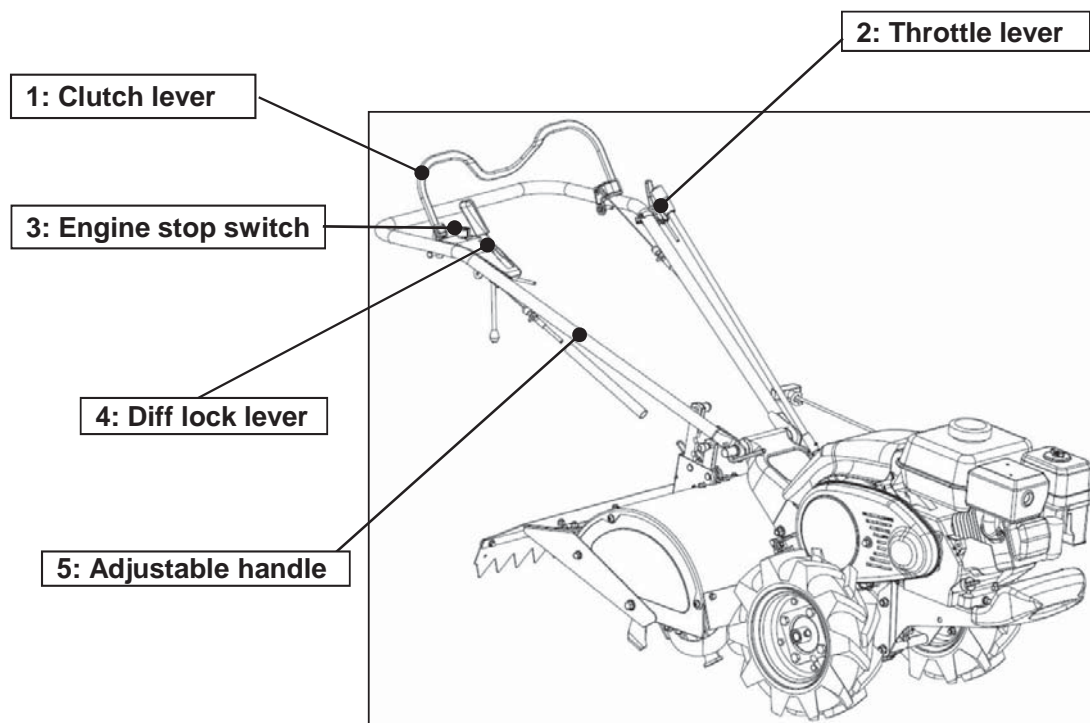
- Be sure to switch off the engine and remove the spark plug cord before performing any inspection, adjustment or maintenance on this machine.
- When performing inspection, adjustment or maintenance, use the correct tools to work as safely as possible
- Perform periodic inspections in order to work as safely as possible. If you discover any worn or damaged parts, please replace them with recommended parts only.
- When inspecting or handling the machine, do not directly touch the tines. Exercise caution by wearing gloves and wrapping the tines in cloth. If you notice any abnormalities in the tines, do not try to repair them, have them replaced with OEM parts from Orec. Not taking this precaution can cause injury and accidents
- Damage to the belt cover, tine cover, or rear guard, could cause injury or accidents. Be sure to have any damaged parts replaced before using the machine again.
- Be sure to check that the covers of rotating parts are refitted correctly in their original positions after being removed. Poorly fitted covers could open during operation and cause serious injury
- Check that all nuts and bolts are securely tightened
- Perform comprehensive inspection and adjustment of such parts as drive clutch, throttle, and gear change.

- When rubber fuel lines become old, they can split and dangerous fuel leaks can occur. Change rubber parts if they split or every 3 years regardless of damage. At this time, also change the fastening bands for the new parts.
- Be sure to check that the bolts in the wheels and blades are tightly fastened.
- When replacing the tines, also replace the attached nuts and bolts. There is a possibility of accidents caused by worn or damaged parts. Never substitute nuts and bolts with those that are not recommended.
- Remove fuel when storing or transporting the machine. Accidents and damage can be caused by fuel spills or expired fuel.
- When storing the machine, place it on a flat surface away from sources of flame. Not taking precautions can cause accidents and damage.
- Before storing the machine, remove such foreign material as weeds and leaves. Clean away any oil spills or fragments stained with oil.
- Make sure that the engine has completely cooled before covering the machine with a storage cover.

Depending on operating conditions, there may be occasions when incidents arise which are not covered by the warnings in this manual. The operator should always use common sense and put safety first when using this machine

《Name of Parts》

Note: the model in the pictures may slightly different than the actual machine.



1: Clutch lever

Operates by turning power transmission [ON]/ [OFF] from the engine to the drive transmission. Lower the lever and grip it together with the handlebars to transfer power to the transmission and start driving the machine [ON].

Release your grip on the lever and it will automatically return to its raised position, power transmission will be cut and the machine will stop moving.

2: Throttle lever

Adjusts the engine rotating speed (RPM)

3: Engine stop switch

Switches the engine ON/OFF.

4: Diff lock lever

When the lever is put into its forward position, the differential gear lock is [ON].

Normally, the machine should be operated with this lever [OFF].

When you are operating on a slope or soft ground where the tire on one side may slip and it may be difficult to go in a straight line, when unloading from a truck, or when you need to operate the machine in a straight line, switch the diff lock lever on to stop the tires from moving left and right, to increase the machine's ability to move forward in a straight line.



CAUTION

- There is a danger of damage to the gears if the diff lock lever is operated with the drive clutch lever [ON].
- For safety reasons, turn the diff lock lever [ON] when on slopes.

5: Adjustable handle

Handlebar height can be adjusted based on operator's height

6: Speed change lever

Select tilling speed. There are two forward speeds levels and one reverse.

When you select the tilling position[], the machine will begin tilling.

There is only one travel speed when tilling.

7: Rear guard

Protects the operator's feet from the tines and thrown objects when tilling.

8: Depth adjustment bar

Adjusts tilling depth.

How to Operate the Machine

How to start and stop the engine

(Refer engine manual)

■Before starting the engine

Place the machine on a flat surface and perform the following procedures to check the quantity of engine oil and fuel.

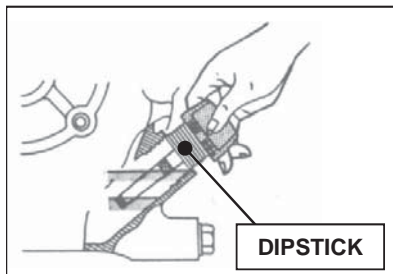
Prep 1 : Check engine oil

⚠ WARNING

- Make sure the engine has cooled down before checking oil. There is a danger of burns.

NOTICE

- When this machine is shipped, it is lubricated with oil;however, before operating the machine,make sure that it is lubricated with the described oil.



1. Unscrew the dipstick and inspect, using oil gauge.
Note: Check oil level by inserting and removing the dipstick without screwing it into the filler hole.
2. If the oil does not lie between the upper level and lower level, replenish to bring the oil to the upper level.

Note: Please make sure not to overfill the engine oil

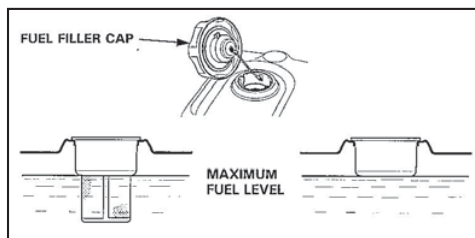
Prep 2 : Check fuel

⚠ DANGER

- Absolutely do not handle gasoline in the presence of lit cigarettes, open flame, or other sources of ignition. Gasoline is an extremely flammable liquid and its high volatility means there is a danger of fires and explosions.

⚠ WARNING

- Please refuel in a place that is well ventilated. As gasoline is a highly volatile substance, there is a danger that you will feel unwell if you operate the machine in a poorly ventilated place.
- When refueling, be sure to stop the engine and allow it to cool down. There is a danger of suffering burns.
- When refueling, do not overfill the fuel tank above the maximum level. If you do overfill the fuel tank, remove fuel until it sits below the maximum level. Over-fueling can cause fire and other accidents
- After refueling, securely close the fuel cap and store the machine in a safe place with no sources of flame. There is a danger of fire.
- If you accidentally spill gasoline, move the machine a safe distance away without starting the engine. Starting the machine in close proximity to a fuel spill can result in fire or other accident. Use a cloth to wipe away waste gasoline then dispose of according to local laws.

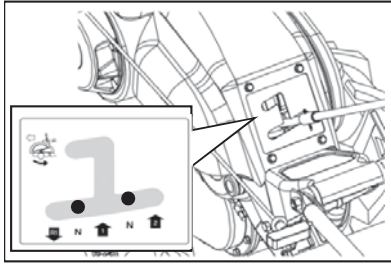


1. Refuel the machine with regular unleaded gasoline.
(Refer to fuel tank specifications on quantity)

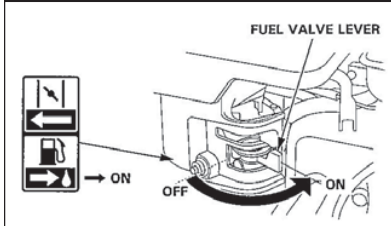
■How to start the engine

⚠ DANGER

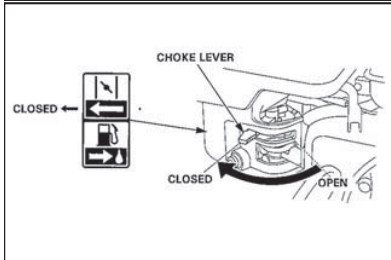
- Do not start the engine in a confined space or a place with insufficient ventilation.
Engine exhaust gas is odorless and contains carbon monoxide which can cause death.



1. Put the speed change lever in the [N] position.

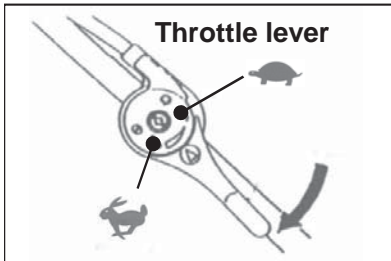


2. Move the fuel valve lever to the [ON] position

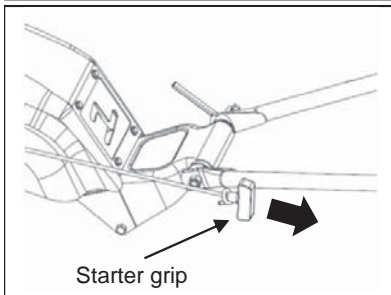


3. To start a cold engine, move the choke lever to the [CLOSED] position.

If the engine has been warmed up,
there is no need to use the choke.



4. Turn the throttle lever between the [🐢] and [🐐] positions

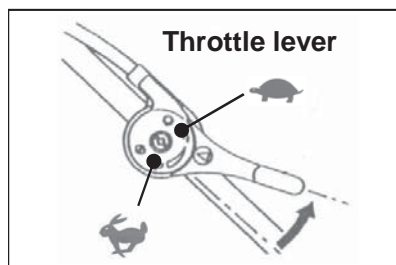


5. Grip the starter knob, pull slowly until you feel tension and then pull strongly from this position.
Immediately after the engine has started, slowly return the startknob to its original position.
6. If the choke lever to moved to the [CLOSED] position to start the engine, gradually move it to the [OPEN] position as the engine warms up

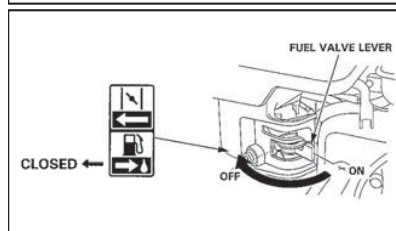
NOTICE

- Please warm up the engine by leaving it engaged, with the throttle in [LOW] for approximately 2 minutes.

■How to stop the engine



1. Turn the throttle lever to the [] position, then move the engine stop switch to the [OFF] position to stop the engine.



2. Shift the fuel valve to the [CLOSED] position

WARNING

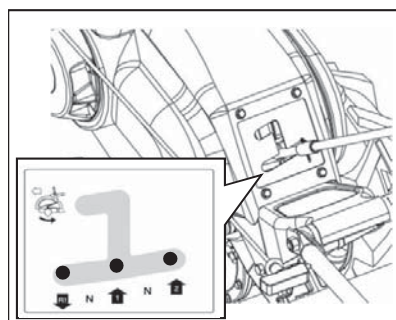
- Do not touch the hot engine immediately after switching off. Allow time for it to cool down as there is a danger of burns

How to drive, turn, change speed, and stop

WARNING

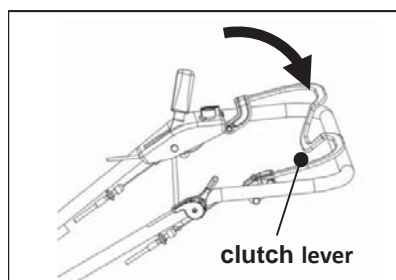
- Confirm that all around you is safe before proceeding to drive the machine.
 - If driving the machine alongside ditches or the edges of paths, there is a danger that the weight of the machine could cause the ground to collapse. Exercise sufficient caution when operating the machine on soft ground.
 - Do not operate the machine on slopes of more than 10° or on slippery ground. There is a danger of the machine rolling over or running out of control.

■How to drive



1. Start the engine.
2. Be sure to shift the speed change lever securely in the necessary position, [1], [2] or [R]

Do not shift in the [] position.



WARNING

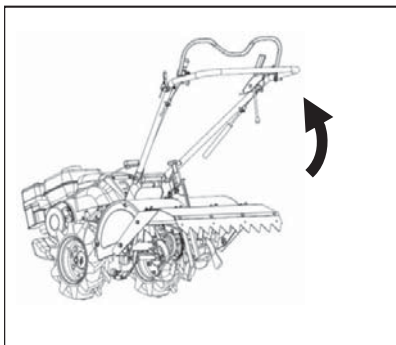
- If the speed change lever is not securely in place, there is a real danger that gears could be released while driving the machine. If a gear is difficult to engage, do not force it. Press the clutch lever to the [ON] position and be certain to check the gear change one more time.
- Turn the throttle lever to [] position. [] position will increase the risk of sudden start. Adjust throttle speed using the throttle lever after operating the clutch lever

3. The machine will start moving, when the clutch lever is pushed down.

NOTICE

- Place the machine on a flat surface and release the diff lock lever [OFF].
- When you are operating on a slope where the tires may slip and it may be difficult to go in a straight line, switch the diff lock lever [ON] to help your progress.

■How to turn



Steer the machine by lifting the handle bar so that the tines come to the ground surface.

⚠ WARNING

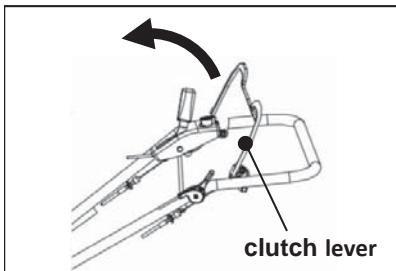
- Do not shift the speed change lever to [] position.

Rotating tines may cause serious injury and accident.

NOTICE

- Release the diff lock lever [OFF] when turning. Release the drive clutch lever [OFF] to operate the diff lock lever. Locking the differential makes both tires rotate at the same speed so that it helps to drive straight forward, however it creates a larger turning radius as well as a greater work-load on the transmission.

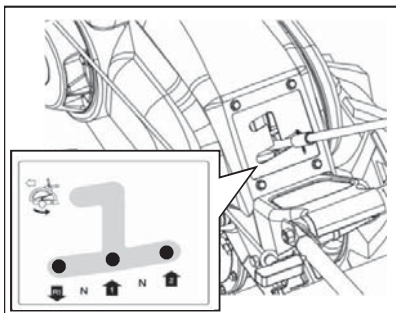
■How to change speed



1. Release the clutch lever [OFF] and allow the machine to stop

⚠ WARNING

- Do not try to change speed with the drive clutch lever [ON]. This can cause accidents and transmission damage.



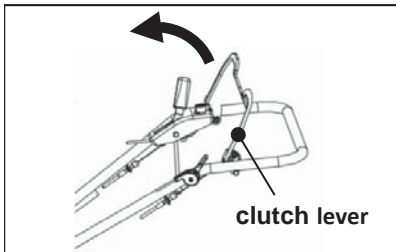
2. Please be sure to securely shift it to the necessary position.

⚠ WARNING

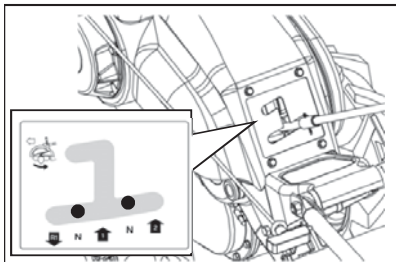
- Do not shift the speed change lever to [] position.

Rotating tines may cause serious injury and accident.

■How to stop



1. Release the drive clutch lever [OFF] and allow the machine to stop.



2. Shift the speed change lever to [N] position and stop the engine.

⚠ WARNING

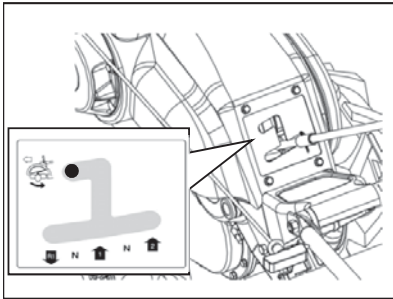
- Please park the machine on flat, open ground with no obstacles nearby. The machine may accidentally move if it's on a slope.
- Please turn off the engine when unattended.

Tilling

Please carefully read and understand the following important safety points.

WARNING

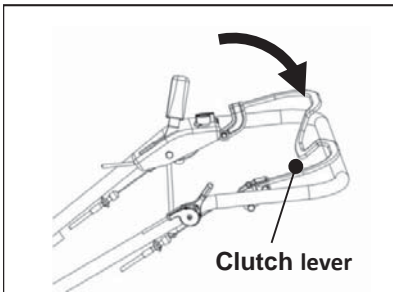
- Please clean inside the tine cover ONLY AFTER turning off the engine. Doing so without turning off the engine may cause serious injury.
- Please remove objects, such as big rocks, in advance, when operating this machine on rocky soil to protect the machine from damage.
- Do not push the handle bar down when operating but support lightly, as it causes extra strain to the machine, and the machine may move forward due to the rotational reaction force
- When working on hard compacted soil, till several times using a shallow depth setting.
- This machine will stop when the clutch lever is off. Please stop machine releasing the clutch lever in an emergency.
- Always use your hands to operate the clutch lever. Never use string or steel wire to hold the handle, as it may cause serious injury, because the turn off action will be delayed.



1. Shift the speed change lever into [] position.

WARNING

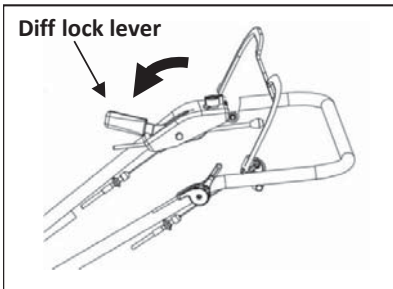
- Start tilling after checking that the rear guard is attached in the correct position. Tilling without the rear guard may throw outobjects and cause accidents.



2. Pressing the clutch lever will start the tines and wheels rotating

WARNING

- Please be careful of the rotating tines.



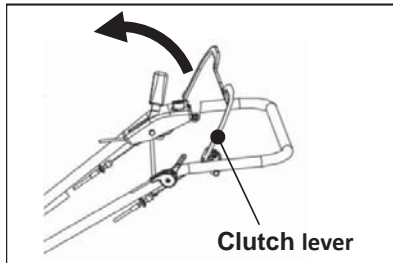
3. Use the diff lock lever set to [ON] when necessary.


Note: Put the diff lock lever [OFF] when flat and soil is in good condition. Use [ON], when working on slopes and loose ground.

■How to stop

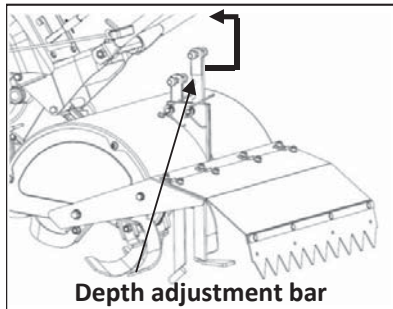
⚠ WARNING

- Please park the machine on flat open ground.
If the machine moves when unattended it may cause accidents or machine damage.
Please turn off the engine when unattended.



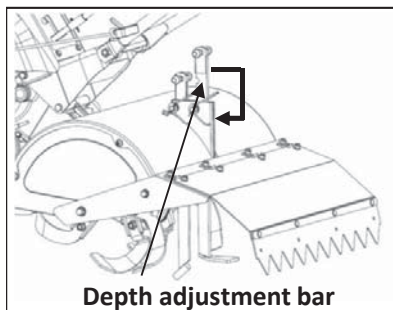
1. Release the clutch lever
2. Turn the throttle lever [] position then turn the engine stop switch [OFF] position.

■How to adjust the depth.



1. Pull the depth adjustment bar to unlock then move up and down to set and lock it at desired depth. There are 6 depth positions.

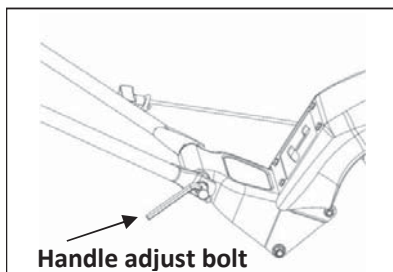
Move the depth adjustment bar up when tilling deeper.



2. Move the depth adjustment bar down when tilling more shallow

Note: If the depth adjustment bar becomes hard to move, remove any objects such as clogged mud, and lubricate with engine oil.

■ How to adjust the handle height.



The handle height is adjustable for operator.
Remove the handle adjust bolt then re-tighten at the proper position, with both tooth are biting each other.

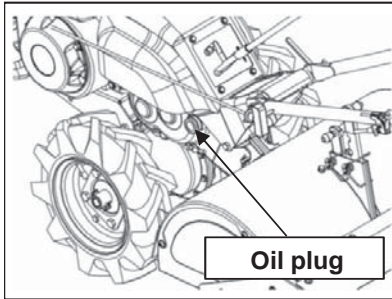
《Oiled Parts Inspection, Replacement, and Lubrication》

⚠ WARNING

- When this machine is shipped, it is lubricated with oil;however, before operating the machine, make sure that it is lubricated with the described oil.
- Before operating the machine, makesure that it is lubricated with the described oil, in the described parts, and in the described quantities.
- To always operate this machine in good condition, perform oil changes periodically

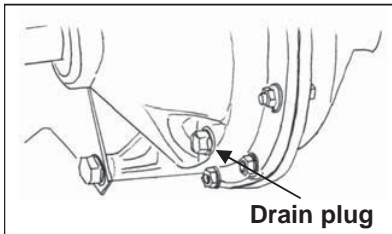
- When performing inspection, replacement, or lubrication of oiled parts, place the machine on a flat, open surface. Switch on the engine and warm it up to confirm it is working properly. Then switch off the engine, allow it to cool down and remove the spark plug cord. After switching off, please wait at least 10 minutes for all parts to cool down sufficiently before you touch the machine.
Immediately after the engine has stopped, the body will be very hot and can cause burns if touched. Also the oil will still be in the engine and transmission so the quantity of oil remaining will not be accurately displayed.
- After changing the oil, please dispose of waste oil appropriately.

Transmission oil inspection, replacement and lubrication



Inspection

Inspect around the oil inlet at the left side of the transmission, after removing the oil plug. If the oil level surface can be seen from there, there is a sufficient amount of oil.



Replacement

Place an oil pan under the transmission, then remove the drain plug at the left bottom of the transmission near drive shaft and drain old oil.

Change the gear oil after the first 20 hours of operation and every 100 hours thereafter

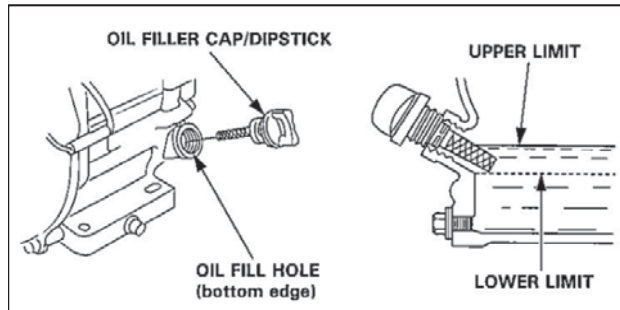
Lubrication

After reattaching the drain plug, fill with 3.2 qt (3 L) of gear oil (#90) by pouring through the oil inlet.

Engine oil inspection, replacement, lubrication

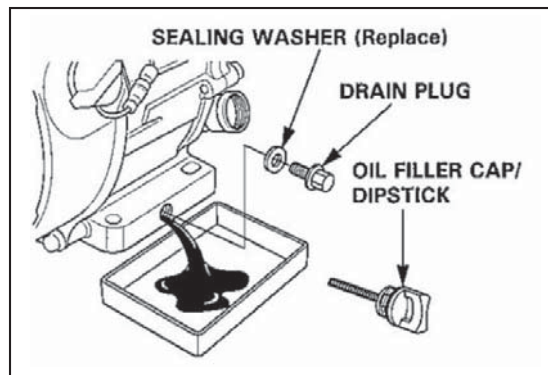
⚠ WARNING

- Before changing oil, please switch on the engine and warm it up. Allow at least 10 min for all parts to cool down after switched off in order to prevent burns.



Inspection

Perform this inspection before every use, and check oil quantity and quality using the dipstick. Make sure the engine oil is always at the maximum level on the level gauge. Inspect with the engine horizontal and do not screw in the dipstick.



Replacement

Remove the oil filler cap and the drain plug. Drain all old oil.

Replace engine oil after the first 5 hours of operation and roughly every 25 hours thereafter.

Lubrication

Remove the oil filler cap then put in the new engine oil (SAE10W-30) with 0.6qt (0.6L) (Refer to the engine manual)

1. After the oil has been removed, securely return the drain plug to its original position. Fill with new engine oil from the oil filler.
2. After filling with engine oil, securely reattach the oil inlet plug so that oil does not leak out

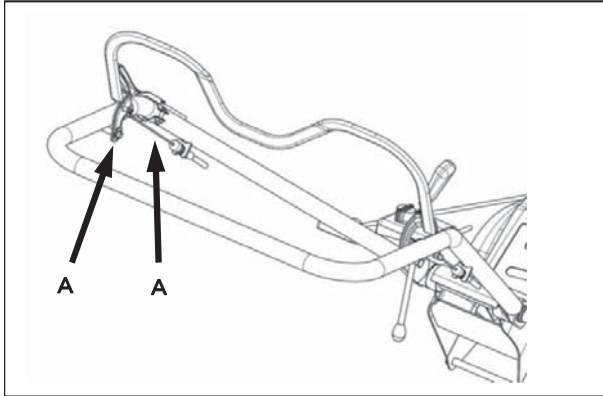
Note: The oil may bleed when the oil filler cap and the drain plug has not been tightened enough.

How to Lubricate Each Part

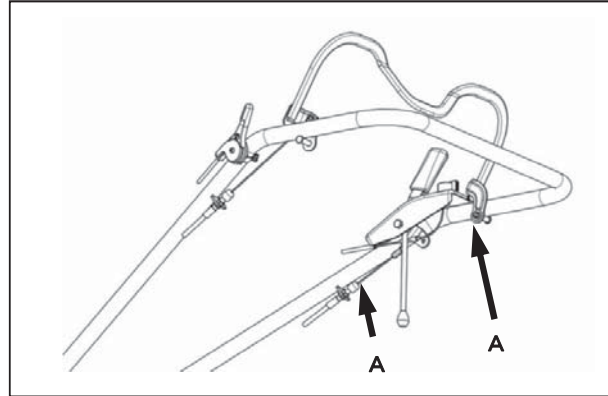
⚠ CAUTION

- Be sure to lubricate each part with grease or lubricating oil (#30) every 30 hours.
Operation will become heavy and the machine could be damaged if you neglect lubrication and allow oil to run out

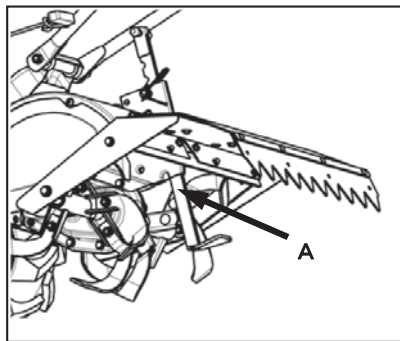
Lubricate all parts indicated by "A" in the pictures below



The clutch cable and the clutch lever pivoting point.



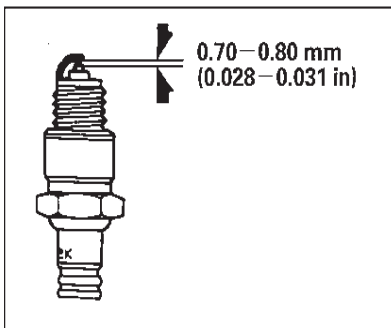
The diff lock cable and clutch lever pivoting point



The depth adjustment bar

《How to Inspect, Maintain, and Adjust Each Part》

How to inspect and adjust the spark plug



1. Remove the spark plug with a plug wrench and clean away any carbon deposits on the electrode with a wire brush and wipe away any moisture if present.
2. Replace the spark plug with a new one if the ceramic part has cracked or the electrode has suffered extensive wear and tear.
Plug: Honda GX200 ----BPR6ES (NGK)
3. Please adjust the spark plug electrode clearance to 0.028-0.031in (0.7-0.8mm)

NOTICE

- When attaching a spark plug onto the engine, screw by hand at first before tightening with a plug wrench. If you start by using a plug wrench to screw in the spark plug, there is a danger of cross-threading it

How to clean the air filter

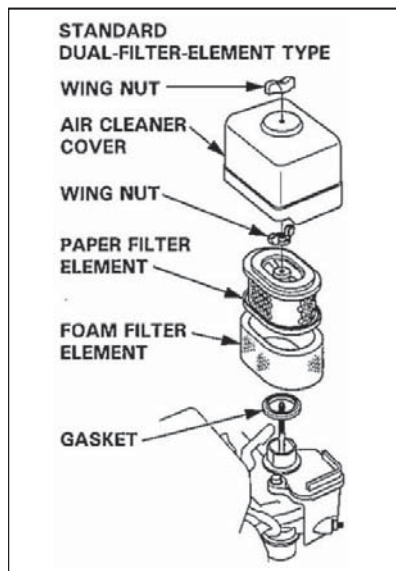
⚠ WARNING

- Be sure to periodically clean the air filters. If you continue to use the machine with the air filter and recoil starter clogged with weeds, etc., exhaust temperature will increase and could ignite fuel, resulting in a fire.

Cleaning, replacement time (approx.)

	Cleaning	Replacement
Foam element	Every 25 hours	Every 200 hours or 1 year
Paper element	Every 50 hours	Every 200 hours or 1 year

Take care to clean the filter more frequently when operating in an environment with a lot of dust or grime.

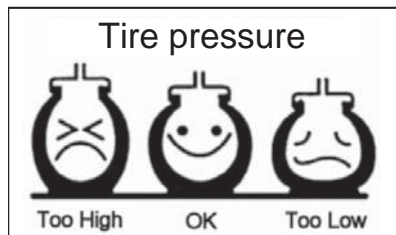


1. Release the wing nut and air cleaner cover
2. Remove the paper and foam elements and check for damage
Note: Replace with new parts if damaged
3. Wash the foam element with a pH neutral detergent. After washing, be sure to squeeze out all the water and allow it to dry. Then soak it in new engine oil (SAE10W-30 equivalent), wring it out hard, and shake to remove any surplus oil.
4. Lightly tap the paper element several times to remove any waste. Blow any dirt from the inside of the filter in an outward direction
5. Wipe any dirt from the inside of the case and reassemble back to its original position

NOTICE

- Replace the paper element with a new one if it is very dirty.
- Take care when tapping the paper element so as not to cause any damage to the filter.
- Do not use a brush as this could scrape the filter.

Tire pressure adjustment

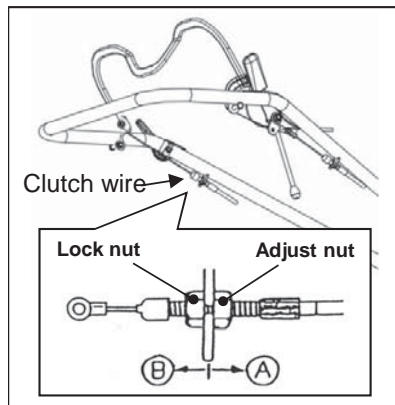


Please adjust tire pressure to 17.4 psi (0.12 MPa)
If the air pressure of the left and right tires is not equal, there is a danger of losing control of the handlebars.

Adjusting the Cables

WARNING

- Check that you are taking sufficient safety precautions when adjusting each cable by placing the machine on a flat, open surface with the engine switched off and the spark plug cord removed.



Clutch cable

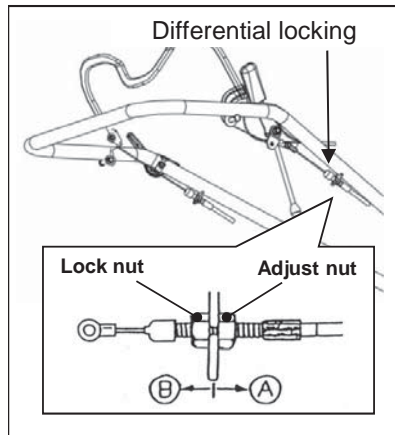
If the V-belt slips and the machine becomes over-loaded even when you grip the handlebar with the clutch lever

-Loosen the lock nut and move the adjust nut in the direction B

If the machine still moves when the drive clutch lever is released.

-Loosen the lock nut and move the adjust nut in the direction A

Please securely tighten the lock nut after the adjustment.



Diff lock cable

If the machine does not function even when diff lock lever is ON.

-Loosen the lock nut and move the adjust nut in the direction B

If the machine still functions even when diff lock lever is OFF.

-Loosen the lock nut and move the adjust nut in the direction A

Please securely tighten the lock nut after the adjustment.

Belt Inspection

WARNING

- Before working on the machine, stop the engine and remove the spark plug cord. Not taking this precaution could lead to serious injury and accident

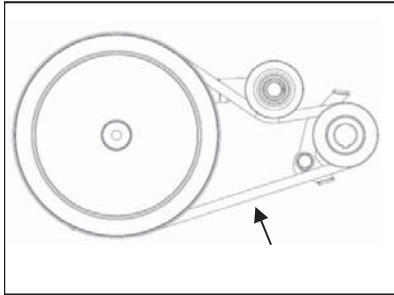
Please check the belt regularly as it is a consumable parts and subject to wear and tear.

If you notice wear or cracks in any of these parts, please replace immediately

Cog belt: Size----- HP-2 SB33 x 1

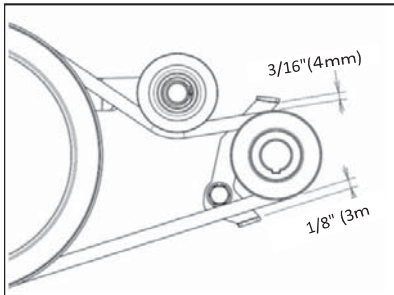
• Inspection time:

After the first 2-3 hours of operation and then every 30 hours of operation thereafter



Adjustment

Depress the clutch lever to [ON], and make sure the belt has about 1/4" deflection when it is pressed with 6 lbs force. If the adjuster at the clutch cable doesn't allow you to set it within the range, you can also adjust by loosening the engine mounts bolt to move the engine position.



Replacement

After changing or adjust the belt, please adjust belt holder's position.

When the clutch lever is in [ON] position, the gap between the belt and the belt holder is 3/16" (4mm) on the upper side, and 1/8" (3mm) on the lower side.

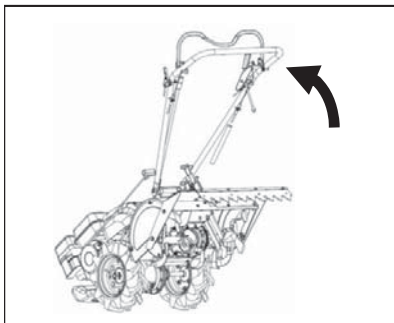
Confirming the attachment of the belt after replacing

Return the spark plug cord to its original position and run the engine for around 2 minutes with the blade clutch lever and drive clutch lever in both the [ON] and [OFF] positions to confirm that the belt is operating normally. After confirming, set nuts, bolts, and covers securely to their original positions

Tine Inspection and Replacement

WARNING

- When inspecting or replacing the tines, place the machine on a flat, open area. Always be sure to switch off the engine as there is a danger of injury.
- When replacing or repairing tines, always have the work performed by someone with the correct tools and experience.
- The inspection or replacement of blades should be performed by 2 people. The handlebars should be held firmly to stop the rear of the machine from falling down. Not taking this precaution can cause injury.
- To avoid injury, wear safety gloves when performing inspection or replacement and wrap the tips of the tines in cloth.
- Replace the tines if you detect any abnormalities. If you ignore wear and tear, cracks, and bending, there is a danger that the tines could break and fly out of the machine, severely injuring the operator or any bystanders.
- When replacing the tines, be sure to also replace the nuts and bolts which tighten the tines. This prevents accidents caused by wear and tear on the nuts and bolts. Never use nuts and bolts that are not recommended for this specified purpose.



1. Stop the engine and move the fuel valve to [CLOSE] position and remove the spark plug cap
2. Lift the machine's handlebars up to raise the rotor part of the machine.

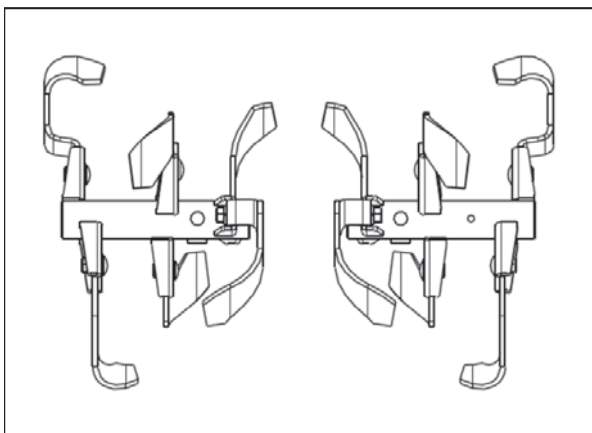
NOTICE

- Do not leave the machine in a tilted position, as the fluids may shift and prevent the engine from starting properly.

3. Inspect for any cracks, bending and wear.
4. Inspect all the tine setting bolts to be sure they are securely tightened

Replacing Tines

Place the rotor on flat surface and check from behind. When each tine's edge has no overlap, it's time to replace.



Tine distributions

Remove the tine setting bolts when replacing tines.

Please refer to the picture on the left, when attaching new tines.

Please check the curb directions and position of offset tines. Securely tighten with the tine setting bolts.

※The picture shown is the view from behind the machine.

Please check the rotating direction as well. When you replace, go from the left to right, one by one this will help you complete correctly. If the direction or position is incorrect, there may be clumping and uneven tilling.

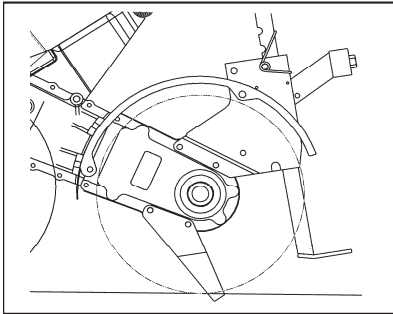
NOTICE

- We recommend purchasing a replacement set in advance.

Inspection and Replacement of EZ Anker

⚠ WARNING

- EZ Anker is a consumable part. Using worn EZ Anker will prevent proper resistance, and the machine may run rapidly on the ground, which may cause accidents.



1. If the length of the EZ Anker has become shorter than the rotor's rotating radius, it's time for replacement. When the machine runs rapidly on the ground surface, please check the EZ Anker for wear.
2. Please attach in the same direction when replacing.

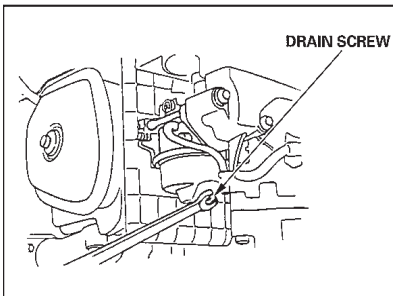
《Long-term Storage》

If you do not plan to use the machine for more than 30 days, please follow these procedures for proper storage.

If the machine is not stored properly, there is a danger of fuel spoilage, the machine failing to start, or difficulty in running the machine.

⚠ WARNING

- Please work on the machine in a place that is well ventilated. Gas fumes can fill a room and cause accidents.
- Before working on the machine, switch off the engine and remove the spark plug cord.
- Store the machine on a flat surface in a place protected from the elements that is well ventilated and cool.
- When removing fuel, do not work near lit cigarettes or other sources of open flame. Also, keep fireworks and firearms away as there is a danger of the machine catching fire.
- When removing fuel, be sure that the engine and muffler have cooled before touching the machine. There is a danger of burns. Take care to dispose of fuel in accordance with local laws and regulations.



1. Empty fuel from inside the fuel tank and the carburetor.
To remove fuel from inside the carburetor, remove the drain screw from underneath and allow any fuel to flow out.
2. Clean away any fuel on the outside of the engine or machine with a rag.
3. Please replace the engine oil.
Refer to [Replacing Engine Oil]
4. Wash all parts well.
 - Clean the recoil starter, air filter, muffler, around the carburetor, and inside the belt cover by blowing air through them to remove dirt and dust.
 - Remove rust from affected areas and apply anti-corrosion paint.
 - If you continue to operate with an accumulation of grass and dust in the machine, the engine can become clogged, causing it to overheat and possibly catch fire.
5. Refuel and lubricate the necessary parts and have any defective parts repaired
6. Put a cover over the machine to keep dust out.

NOTICE

- During storage, check the tire pressure periodically and add air as necessary

《Specifications Reference values》

Name		Mighty
Model		SF600
Total length x Total width x Total height		67"x 23"x 38" (1690x590x970mm)
Tilling width		19.7in (500mm)
Tines		12
Size of Cog belt		HP- II SB33 x 1
Weight		185 lbs.(84kg)
Size of tire		3.50-7 (φ350mm)
Clutch		Belt tightener
Speeds	Forward (MPH)	[1] 0.72 [2] 2.78
	Reverse (MPH)	[R] 0.72
Engine	Name	HONDA GX200
	Type	UT2-SAR
	Power	4.8 kW (6.5HP)
	Oil	0.6 qt (0.6L)
	Fuel tank	0.8 gallon (3.1L)

《Included Tools》

No	Name of Tool	Specification	Qty	Remarks
	Dual head wrench	10-12 (mm)	1	
	Dual head wrench	14-17 (mm)	1	
	Spark plug wrench		1	Engine tool

《Consumable Parts List》

No	Name of the Parts	Parts No	Qty/Unit	Remarks
1	Belt	89-6133-003301	1	HP-2 SB33
2	Regular tine L	80-1310-821-00	4	Marked as AR50 L
3	Regular tine R	80-1310-822-00	4	Marked as AR50R
4	Offset tine L	80-1310-826-00	2	Marked as AR50S L
5	Offset tine R	80-1310-827-00	2	Marked as AR50SR
6	Tine attaching bolt & nut set	85-1321-835-00	12	M10(round head square neck bolt)
7	Cable, clutch	83-1260-932-00	1	
8	Throttle cable assy	0023-72400	1	
9	Cable, diff lock	0016-73100	1	
10	EZ Anker	0031-02100	1	
11				
12				

《Periodic Voluntary Inspection Table》

Neglecting inspection and maintenance is a cause of accidents and damage. Perform inspection referring to [Periodic voluntary inspection table] in order to always keep the machine functioning correctly

Perform annual inspection once a year and monthly inspection once a month, and starting checks every time you use the machine

D: Daily M: Monthly Y: Yearly

		Inspection Content		Inspection Freq.		
				D	M	Y
Engine	Main Body	Condition at startup, abnormal noise	Machine starts up easily.	✓	✓	✓
		Revolution and acceleration	Revolution speed increases gradually and smoothly	✓	✓	✓
		exhaust and gas leakage	Exhaust color, smell, and sound are normal	✓	✓	✓
		Air filter damage, loosening, cleanliness	No damage, loosening, or noticeably dirty.	✓	✓	✓
		Loosening of the attachment of cylinder head and manifolds	Gas leak, cracking, noticeable corrosion. (Tightened to the correct torque, not loose)			✓
		Valve clearance	Clearance looks right range			✓
		Compressive pressure	Compressive pressure looks straight			✓
		Engine base cracking or deformity, loosening of nuts and bolts	The engine base is not cracked or deformed and the nuts and bolts are not loose.	✓	✓	✓
	Lubrication	Quantity, cleanliness	Oil quantity is suitable, not dirty or mixed with any water or metals.	✓	✓	✓
		Oil leakage	Oil seal and gasket are not leaking oil.	✓	✓	✓
	Fuel	Fuel leakage	Fuel is not leaking	✓	✓	✓
		Fuel filter blockage	Not noticeably dirty, deformed, or clogged		✓	✓
		Fuel quantity/quality	There is fuel in the engine and it is of good quality.	✓	✓	✓
	Electrics	Loosening, damage to electrical wire connections	Harness connections are suitable, not loose or damaged		✓	✓
		Spark Plug	There are no cracks in the ceramic, the electrodes are not worn, and there are no carbon deposits	✓	✓	✓
	Purity	Dirtying of air filter element	Air filter element is not dirty.	✓	✓	✓
		Element breakage	Element is not torn or worn out.	✓	✓	✓
	Cooling	Grass etc. clogged in the recoil cover	Recoil cover is not clogged with grass	✓	✓	✓
		Accumulation of grass in the muffler	There is no accumulation of grass around the muffler	✓	✓	✓
Transmitter	Belt	Loosening	There is suitable tension on the belt	✓	✓	✓
		Damage, cleanliness	Belt is not cracked, damaged or noticeably dirty		✓	✓
	Transmission	Abnormal noise, strange heat movement	There are no abnormalities, strange noises or heat, when running the machine		✓	✓
		Oil quantity, cleanliness	There is a suitable quantity of oil and it is not dirty.			✓
Body	Cover	Oil leakage	Oil seal and packing parts are not leaking oil.	✓	✓	✓
		Cracking or deformity, Mounting nuts and bolts are loose or have fallen off	Frame is not cracked or deformed. Nuts and bolts have not fallen off.		✓	✓
Drive	Lever&Cables	Cracking, deformity, corrosion	No cracking, deformity or corrosion			✓
		Damage, loosening, rattling of levers and cables, loss of split pins	When moving or loading there is no damage, loosening, rattling and nothing has fallen off.	✓	✓	✓
Drive	Tires (Wheel)	Air pressure and tread depth	Standard values are observed	✓	✓	✓
		Cracking, damage, wear and tear	No cracks, damage or wear and tear.	✓	✓	✓
		Metal, stones, etc., stuck in the tires	There is no debris in the tires	✓	✓	✓
		Loose or missing nuts and bolts	Nuts and bolts are not loose or missing	✓	✓	✓
		Rattling, strange noise	Mounted parts do not rattle or are missing.		✓	✓
	Labels	Damage	Warning labels and nameplate are attached and not damaged		✓	✓

If you do not understand any of these points, please consult with the retailer where you purchased this machine.

《Troubleshoot》

If any of the following effects occur, refer to the instruction manual and take the appropriate action

Effect	Cause	Treatment
Clumping tillage	Tines are worn out,	Replace whole set of tines.
	Tines are attached in the wrong direction	Reattach tines in the right direction
Tiller jumps forward and away	Too much work load	Till at a shallow depth setting.
	Ground is too compacted, hard	Divide area into smaller sections
Does not till evenly	Tines are attached in the wrong direction	Attach tines in the right directions
Belt slips	Belt tension is too low.	Adjust belt tension
	Entangled grass or other foreign objects in the tine cover	Clean them up
	Ground is wet	Wait until ground dries
	Belt worn	Change belt
Wheel slips	Too much work load	Till with shallow depth.
	Tine cover is clogged with mud etc.	Clean them up
	Ground is wet	Wait until ground dries
	The diff lock lever is [OFF] position	Switch the diff lock lever [ON] position
Diff. is not locked	Cable is stretched	Adjust cable
Engine bog	Engine rotation speed is low	Raise throttle
Can't move the depth adjustment bar	Mud and grasses are clogged up.	Take them out

If you do not understand any of these points, please consult with the retailer where you purchased this machine

《When engine won't work properly》

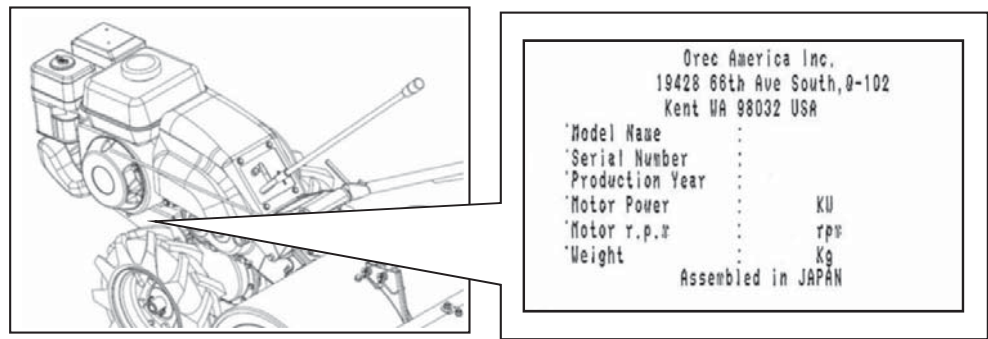
If the engine malfunctions, perform diagnosis by referring to the following table and then taking the appropriate action.

Effect	Cause	Treatment
trouble starting the engine (Engine won't start)	Engine stop switch is not in the [ON] position.	Put the safety switch to the [ON]
	Choke lever has not been turned to [CLOSE].	When cooling the engine, put the choke bar [CLOSE] position
	Fuel is not flowing properly.	Inspect fuel tank, remove impure deposits or water. Remove the fuel valve strainer and clean out any sediment deposited inside the cap together with any other attached dirt.
	There is air or water mixed in the fuel delivery system.	Remove foreign objects, inspect fastening bands, replace damaged parts with new ones.
	In cold weather, oil becomes thick, and the engine rotation is sluggish	Use the correct oil depending on the outside temperature.
	Ignition coil or unit is defective	Replace the ignition coil or unit.
	Defective spark plug.	Inspect the gap between spark plug electrodes and adjust Replace with a new spark plug
Output shortage	Fuel shortage.	Refuel the machine.
	Clogged air filter.	Clean the element.
	Poor quality fuel.	Replace with good quality fuel.
	Choke has not been fully opened.	Return the choke bar to [OPEN] completely
	Cooling system is clogged.	Clean around the recoil starter
The engine stalls suddenly.	Fuel shortage.	Refuel the machine.
	Fuel valve is closed.	Open the fuel valve.
Exhaust is abnormally black	Poor quality fuel.	Replace with good quality fuel.
	Overfilled with engine oil.	Adjust to correct fuel level
Muffler emits black smoke and power output falls.	Air filter element is clogged.	Clean the elements
	Choke has not been fully opened	Return the choke bar to [OPEN] completely
Muffler emits gray smoke.	Overfilled with engine oil.	Adjust to correct fuel level
	Cylinder or piston ring is worn out	Replace the ring.
Engine revolution is not stable (does not increase).	Choke has not been fully opened	Return the choke bar to [OPEN] completely
	Poor quality fuel	Replace with good quality fuel.
Momentary stall.	Defective ignition coil.	Replace the ignition coil.
	Fuel filter is clogged.	Clean the fuel filter.
Exhaust has an unusual smell	Poor quality fuel	Replace with good quality fuel.

If you do not understand any of these points, please consult with the retailer where you purchased this machine

■Warranty parts

The supply term (period) during which replacement parts will be supplied is 9 years from the time the last OREC product is produced. However, even during the supply period, it may be necessary to consult with OREC when seeking to purchase specific parts. If you have a request for replacement parts after this period has passed, please consult with OREC for prices and availability. If you have any questions please talk to staff at the point of purchase or at our head office. At the same time, please inform us of your machine's [model type, serial number, and engine type].



LIMITED WARRANTY

Terms and Conditions

- Orec America, Inc. provides a limited warranty of **two (2)** years for residential users, one **one (1)** year for commercial users, and **one (1)** year for rental companies, of its products against defects in workmanship and materials when said products are put to ordinary and normal use. The terms and conditions of the limited warranty are as set forth herein.

- The second year of the residential warranty shall cover only parts and NOT service.

- Crawlers are guaranteed for one hundred eighty (180) days after initial purchase.

This warranty covers defects in materials or workmanship only, and does not include damage to crawlers from normal use and other external factors.

- The warranty shall commence from the date of purchase.

This warranty is available only to the original purchaser, and is not transferable.

- OREC reserves the right to inspect covered machines and parts in order to determine the validity of warranty claims

- For the purposes of the above warranties "ordinary and normal use" does not include misuse, accidents, or damage due to inadequate maintenance.

- Under this warranty, the responsibility of Orec America is limited to replacement or repair of defective parts at Orec America, or at an authorized Orec dealer.

- Routine maintenance and adjustments, as defined by the manufacturer's owner's manuals, are the responsibility of the user and are not covered by the warranty.

- Degradation or deterioration of the product due to everyday use are excluded from the warranty

- Expendable components including but not limited to such as belts, blades, filters, spark plugs, bags, wheels hoses, cables, wires, brake pads and flappers, are excluded from the warranty.

This warranty does NOT cover tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps or glass.

- During the warranty period, the warranty holder is responsible for equipment transportation charges, and transportation expenses needed to process the claim will not be reimbursed.

- **The following are excluded from the warranty:**

- Repairs necessary due to inappropriate use or abuse including, but not limited to, damage caused by towing objects or overspeeding the engine.

- Paint peeling or rust that occur through exposure to the elements or through everyday use shall not be covered by the warranty.

- Repairs necessary because of operator negligence, including but not limited to, electrical and mechanical damage caused by improper storage, failure to use the proper grade and amount of engine oil, failure to keep the mowing deck clear of flammable debris, or the failure to maintain the equipment according to the instructions contained in the owner's manual.

- Repairs necessary because of accidents.

- Engine (fuel system) cleaning or repairs caused by fuel determined to be contaminated or oxidized (stale). In general, fuel should be used within thirty (30) days of its purchase date.

- Claims made after expiration of the warranty.

- Claims that are NOT specifically covered by warranty.

- Repairs, maintenance and/or modifications performed by unauthorized persons or dealers, as well as the use of unauthorized parts or accessories will lead to the immediate forfeiture of the warranty.

- Under NO circumstances shall Orec America be liable for damages or expenses of any kind resulting from inappropriate use of its products.

- Orec America shall NOT be responsible for incidental or consequential costs or damages resulting from defects in its machinery.

Such excluded costs and damages may include 1) Labor 2) Lost sales 3) Cost of replacement parts.

- This warranty shall apply only to models sold within the United States and purchased from authorized dealers.

Note: to request warranty service, please contact an authorized Orec dealer or refer to your owner's manual for the proper procedure

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

Warranty Registration

Register your information within 30 days of purchase at <http://www.orecamerica.com/warranty>

Warranty Claim Procedure

Should this Orec product fail due to a defect in materials and/or workmanship, the owner should use the following procedure to make a warranty claim:

- 1) The owner must take the machine to the dealer from whom they purchased the machine or to an authorized Orec America dealer.
- 2) The owner must present the warranty registration sheet or the invoice or receipt received at time of purchase.
- 3) The warranty claim will be taken and verified by the Orec Dealer or distributor service manager and submitted to an Orec distributor. The dealer or distributors service manager will make a report and submit it to Orec America for consideration of Warranty.
- 4) Orec will research the claim and may request that parts be returned for further examination. Orec will report their decision to the distributor service manager or dealer from whom the claim was received.
- 5) In the event that OREC approves the claim, parts will be exchanged free of charge and repairs performed by the dealer.
- 6) The decision by the Quality/Service department to approve or reject a warranty is final and binding.

Note: to process a warranty claim, it is necessary to include the model, and serial number