

INSTRUCTION MANUAL



OREC **LAWN MOWER FL 500**



**Read this instruction manual carefully before any use of the machine, keep it as a reference.
For any question about this manual, please report to your OREC dealer or to the distributor of
your country or to :<http://www.orec-jp.com>.**

Update : September 2018

“only the English version of this manual can be used as a reference.”

INTRODUCTION

Forward to the user

Read this manual before any use of your mower, only the herein instructions shall help you to achieve an efficient and safe work.

A safe use will only result from the manner you will use the machine in accordance with the restrictions described in this manual. Thus, you must know and follow **all** the safety measures in this manual and those relating to the use of your mower.

The MOWER that you have just bought has been designed and manufactured for your entire satisfaction. As any other mechanical machine, it requires a proper maintenance and must be kept clean. Grease the machine like indicated. Follow the rules and safety indications as described in this manual and as showed on the preventive instruction stickers.

About maintenance, always mind that your OREC dealer has the skills, the genuine parts and the necessary tools to solve the possible problems.

Use only the OREC original parts : “ non genuine ” parts will not assure you of a correct and safe working and are likely to make the guarantee null and void. Write the name and the serial number of your machine hereunder :

MODEL :.....

SERIAL NUMBER (refer to the pictures herein) :.....

Always mention these informations to your dealer in order to obtain the right parts.

Concerned about constant progress, OREC keeps the right to modify the machines without being compelled to modify those already sold.

The illustrations and characteristics in this manual might lightly differ from your machine because of the constant improvements made by our production department.

In this manual, the left and the right hand or the rear and the front position are determined according to the mower handlebar.

All along this manual the word **IMPORTANT** is used to indicate that a fault might cause damage to the machine. The words **WARNING**, **CAUTION** and **DANGER** are used with the “ safety/warning ” pictogram (triangle with an exclamation mark) in order to indicate a hazard for your safety.



This symbol indicates that you must be very attentive because your safety is at stake. It reminds that you must follow the safety instructions and pay attention to hazardous operations that might cause injuries.



Reminds the safety rules that might cause injury if they are not respected



Remembers to pay attention to a real danger that is likely to cause injury or even death if no proper precaution is taken.



Indicates a major hazard that is most likely to cause irremediable injury or death if the right precautions are not taken.

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CARACTERISTICS

Model	FL500BC	FL500BC-Hi
Engine	HONDA GXV160	HONDA GXV160
Transmission	Belts	Belts
Forward speed (km/h)	(1) 1,5 (2) 2,5 (3) 4.0	(1) 1,5 (2) 2,5 (3) 4.0
Reverse speed (km/h)	1,7	1,7
Cutting width (mm)	500	500
Height of cut (mm)	20-80	20-80
Weight (kg)	68	68
Fuel tank capacity (liters)	1.4	1.4
Blade transmission	Belt	Belt
blade speed (rpm)	2268	2968
Over all width (mm)	580	580

CHECK LIST

INSTRUCTIONS TO THE DEALER

- The assembling, the installation and the first application of the machine is under the OREC dealer's responsibility.
- Read the instruction manual as well as the safety measures. Check that all the before delivery and at delivery check points specified in the following lists have been verified and possibly modified before delivering the machine to its owner.

CHECKS BEFORE DELIVERY

- Check that all the shields, grids and safety guards are in place and in a good state.
- Check that the hydraulic hoses are in place and in a good state. Replace them if necessary.
- Check that there is no oil leak, repair if necessary.
- Check that the safety instruction stickers are in place and in a good state. Replace them if necessary.
- Check that all the bolts and screws are properly tightened with the right torque (refer to torque chart).
- Protect the grease nipples by coating them with grease and lubricate the machine.
- Check that the machine can work properly.

CHECKS ON DELIVERY

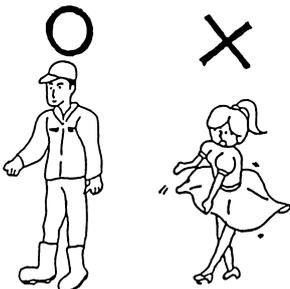
- Show the user how to perform the adjustments.
- Explain to the user the importance of the lubrication and show him the different greasing points on the machine.
- Show him the safety devices, grids, guards and the optional equipments.
- Give the instruction manual to the customer, ask him to read it carefully.

SAFETY RULES



Some of the illustrations show the machine with no guard, no shield. Never use the machine without these devices.

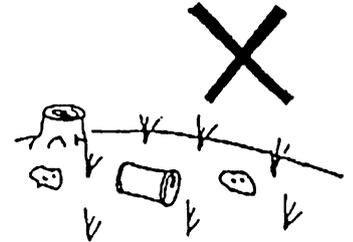
- Learn to stop the machine in case emergency.
- Read this manual.
- Do not let anybody use the machine before having read and understood this manual.
- Do not let children use the machine.
- Do not wear loose clothes. They might be grasped by moving parts.
- Always wear protection equipments for when using the machine.
- Only work during daylight or with a good artificial light.
- Check that the safety instruction stickers are in place and in a good condition.
- Keep the machine free from debris or mud.
- Check that the machine can work properly before any use.
- Check that all the shields, grids and safety guards are in place and in a good state.
- It is strictly forbidden to carry persons or animals onto the machine during the work or during the transportation.
- Never stop or start roughly when working on a slope. Never use the machine to work on a stepping terrain.



- Reduce the ground speed when running on a slope and when turning straight in order to prevent from any risk of losing control.
- Be very careful when bordering ditches.
- Stop the engine, and remove the sparking plug ignition cover before any intervention on the machine.
- Never work under the machine or its parts when lifted, unless they are blocked and maintained into position with sufficient security.
- When running on a slope, always work going up or down but never across the slope.
- Steer clear of unsteady embankments, holes or rocks. They might be

dangerous during manoeuvres or transport.

- Keep away from electric wires and obstacles. A contact with electric wires cause electrocution and death.
- Stop the machine progressively when lifting or lowering the machine.
- When stopping the work, stop the engine and remove the sparking plug ignition cover before leaving the mower.
- Engage all the safety equipments.
- Move the controls only when correctly sat down in the mower
- Visually check hydraulic leaks and if some parts are faulty or missing. Repair before use.
- Never change the adjustment of the regulator, it is set in the factory. Unsetting this valve would cause failures.
- Ensure that the user of the machine has already read and understood this manual and that he is aware of all the safety instructions before any use.
- Always use a chuck and bronze hammer when replacing or intervening on the pins and bolts at the end of rams, rod ... etc in order to avoid the projection of metal fragments.
- Clear the mowing path from foreign objects, stones, woods, cans, • bottle, pieces of steel, wich can ne thrown by the mower.



DESCRIPTION OF THE MACHINE

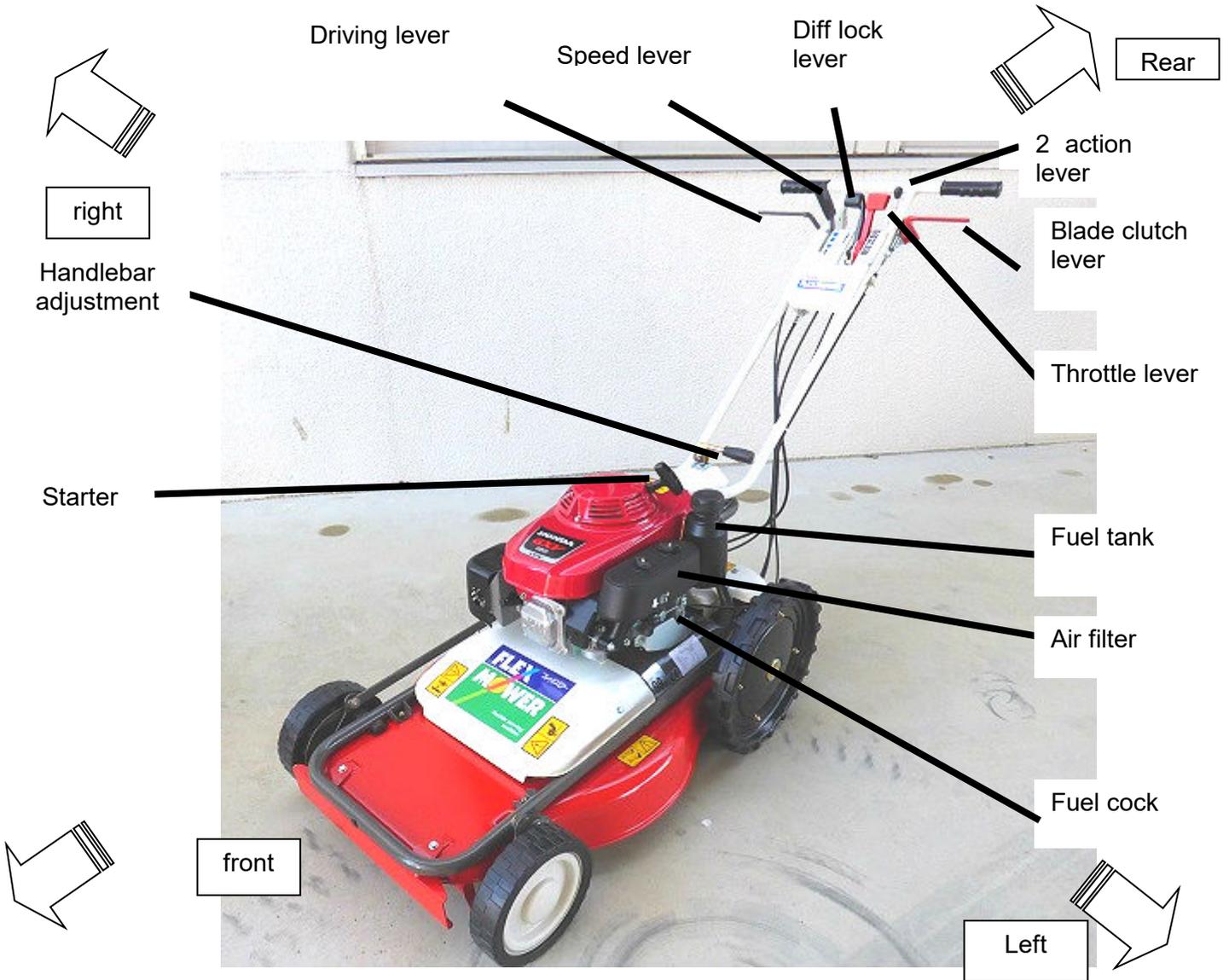


Figure 1

SAFETY STICKERS

Note their location and replace them immediately in case of damage or when missing



Read owner's manual



Beware of hot surfaces near engine



Beware of toxics exhaust gases



No hands or feet under the mowing deck



Beware of rotative blade under the shield



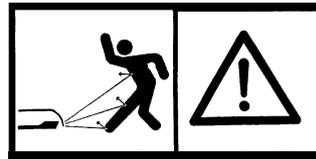
Keep away from the machine



Do not exceed 15° slopes



Unplug sparking wire before maintaining the machine



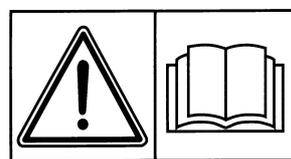
Beware of thrown objects



Always wear protective equipment for dust, noise and wear glasses



Keep away from the machine



Read owner's manual

CONTROLS

DRIVING LEVER (1, FIGURE 2)

Push the lever forward to the handlebar 1, figure 2 to make the machine moving. Release the lever, then the machine stops.

SPEED LEVER (2, FIGURE 2)

The lever allowed to select the speed ratio needed. The machine offer 3 forward speed (1, 2, 3) and, 1 reverse speed (R).

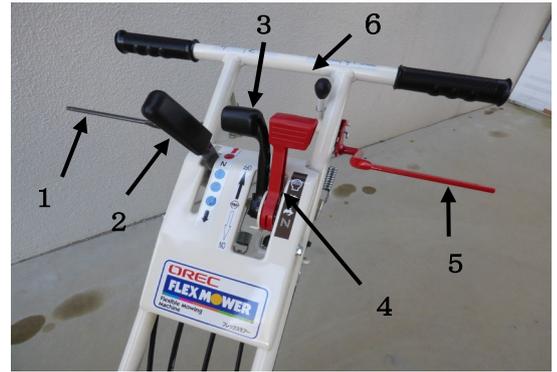


Figure 2



**Never change speed while driving.
In the case of changing speed, travel lever must be released (OFF).**

DIFFERENTIAL LOCK LEVER (3, FIGURE 2,)

Push the lever forward to drive the rear wheel together in slipping condition.



Never turn the machine with the differential locked.

Throttle lever and Choke lever (4, figure 2)

Push the lever completely forward to operate the choke to start cold engine, when engine has start release it. Push the throttle lever forward to « HI » to increase engine speed, pull the throttle lever rearward to « LO » to decrease engine speed to idle rpm. Always operate mower at full engine speed.

IMPORTANT

Do not use the choke when the engine is hot, it did not start

CUTTING BLADE CLUTCH LEVER

Cutting blade Clutch lever make the engine drive the blade to mow. Push the 2 action lever (6, figure 2), then pull the blade clutch lever (5, figure 2) rearward to the handlebar to make the blade turning. Release the lever, then the blade stops.



WARNING

Never try to start or stop the engine with blade engaged.

FUEL COCK

The fuel cock (1, Figure 3) is closed when machine is not use. Fuel cock is closed pushed rearward and open pushed forward.

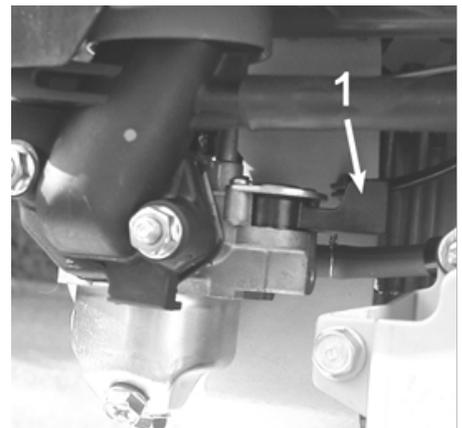


Figure 3

HEIGHT OF CUT CONTROL

Height of cut can be setted by turning the crank-lever 1 Figure 4, clockwise to increase the height of cut and anti- clockwise decrease the height of cut.



WARNING

Always perform this adjustment engine off and sparking plug cover unplug

When cutting in low position, power needed and thrown objects are more important. Cutting low can cause damage to the machine and injury.

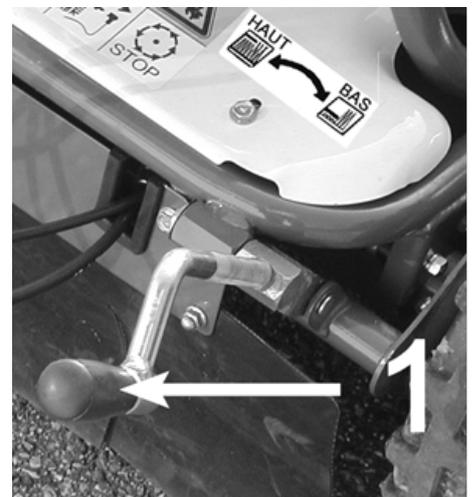


Figure 4

OPERATION



Check the tightening of bolts, referring to the tightening torque charts

The safety is one of our main worry when designing and manufacturing this machine. Therefore, negligence in the use of the machine should reduce our efforts to nothing. The prevention strictly depends on the care and on the skill of the user when applying and maintaining the machine. The best safety method remains a careful and skilled user ; we wish you to be this kind of user.

The user of this machine is responsible for its safe use. He must be a skilled user specially trained for the use of this machine. Read the safety instructions. This machine has been designed to mow grass. It is not designed for any other operation. It is no designed to transport other tools or materials that might damage it and cause injuries to the user. It must not be used to carry persons.



Never use the machine without having priorly carried out all the maintenance operations as described in the daily maintenance chapter.



Never let children or unskilled persons use the machine. Check that nobody or no object stands near the machine when at work. They could be hit by the moving parts. Nobody must stand on the machine except the driver. Never put your hands under moving parts.

STARTING OF THE ENGINE

- Turn the fuel cock "ON".
- Check than cutting blade and travel lever are disengaged.
- Pull choke lever if engine is cold or push throttle lever half of his stroke if the engine is hot.
- Pull the starter rope. When the engine has started, push back the choke lever. Select a speed ratio, then, move to the mowing path.

MOWING

- Start the engine
- Adjust the height of cut control bar as needed.



Do not forget that it is better to mow a few grass often than an important quantity in one operation. Short grass do not resist to dry weather, and athe blade can hit the grown with damage and trhown objects. Working in slopes is very dangerous. Never work in slopes more than 15°.

- Push slowly cutting blade control lever in engage position and the travel lever, increase engine speed to the maximum, then go forward in the grass to mow.
- The best cutting speed depends of quantity and the density of the grass. Usually it is asked to mow between 2,5 and 6 Km/H. A tall grass will be cut slowly and a low grass will be cut faster.



CAUTION

Clear the mowing path from foreign objects, stones, woods, cans, bottle, pieces of steel, which can be thrown by the mower. They can cause injury to the operator or the bystanders.

HOW TO STOP THE MACHINE

- Release driving lever and blade clutch lever.
- Pull backward the throttle lever to stop.
- Close the fuel cock
- Lock the parking brake lever



CAUTION

Never park the machine on slopes. Stop it on a level and flat surface.

STORING THE MACHINE

Thoroughly clean the machine. Use touch up paint to prevent rust. Check for worn and damage parts, install new parts as required. Perform the normal maintenance of the machine according to maintenance chart. Store the machine in a dry protected area. Remove sparking ignition wire from the sparking plug.

TRANSPORT

- Check that the cutting rotor is disengaged.
- Check that the sparking plug cover is disconnected.
- Check that the fuel cock is closed.



CAUTION

Take care of hot surfaces of the machine, especially around the engine.

MAINTENANCE OPERATIONS TO BE CARRIED OUT BY THE USER



BEFORE perform any maintenance operation on the machine, cut off the engine, and remove the spark wire from the sparking plug

If maintenance operation are not realized, damages can occur to the machine and personal injuries to the user and/or spectators. These damages and injuries will not be covered by the warranty.

- Daily maintenance will be performed by the user.
- Maintenance opérations for first 20 hours, 100 et 300 should be realized by the dealer.
- Ask your dealer to check the machine if you meet some problems.
- Ask your distributor the name of your dealer.

DAILY MAINTENANCE BEFORE START MOWING

FUEL (FIGURE 5)

Check tank level is full before start to work. Check that tank plug is fully closed, and check for leaks. Use only a good quality unleaded gasoline.



Check fuel tank is closed, wipe fuel spillages before start the machine. Check there is no fire, electric sparks, cigarettes near the machine when refuelling.



Figure 5

SAFETY STICKERS

- Check safety stickers are stucked at their place. Replace them if they are worn, damage or missing.

Blade and blade holder condition



You can be cutted and injured by cutting blade. Always wear gloves when holding blades.

Check rotary blades are in good condition, change worn or damage blade (figure 6).

- Changing blade : unscrew hexagonal screws and washer from the blade holder.
- Check the blade condition. Change it if it is worn bend or crackle.
- Check thightening of hexagonal screws according to the chart at the end of the manual.
- Sharpen as shown in C figure 6, follow the angle of 30-40°, keep a sharpen hedge of 0,4 to 0,6 mm. Always keep 30 mm of width.

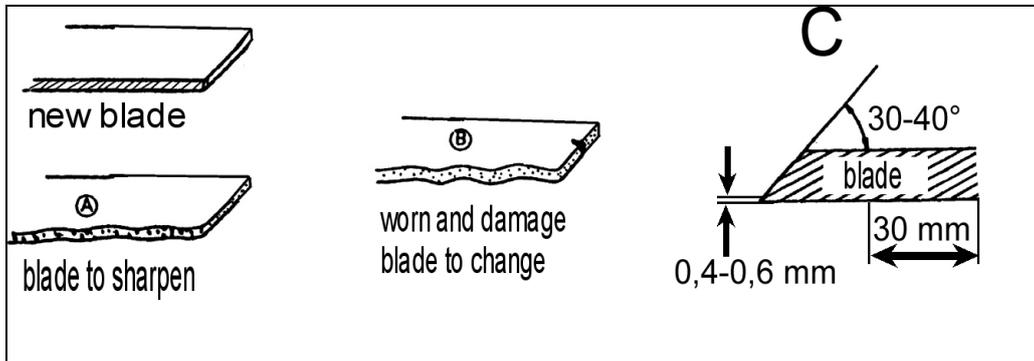


Figure 6

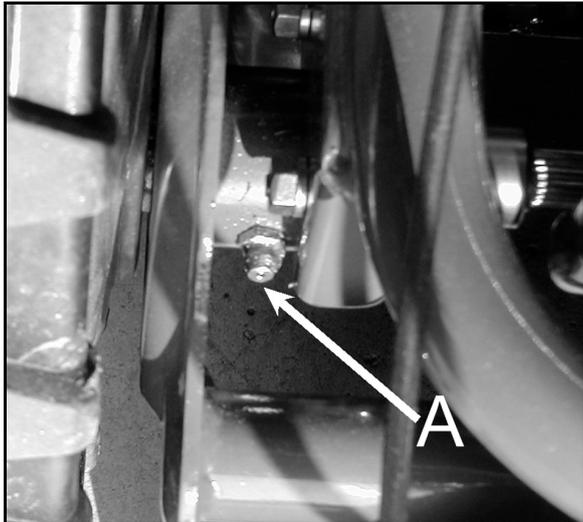


Figure 7

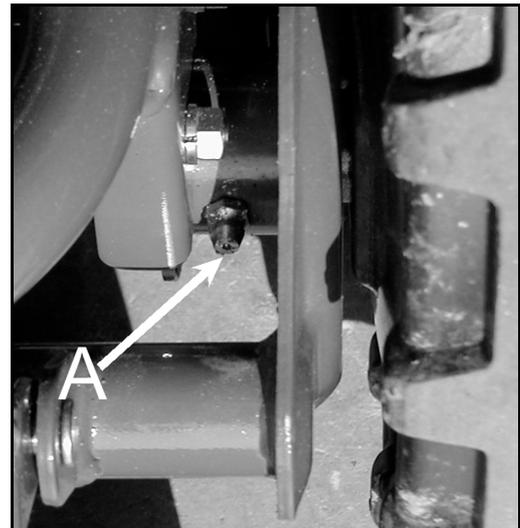


Figure 8



CAUTION

Only use original genuine OREC parts. Other parts may be dangerous for your health and for the bystanders and the machine.

If some vibration occur. If you feel vibrations in the handlebar, check the blade. Vibrations may cause loosening of the bolt and nuts and may crack the steel of the machine.

Lubrication

Grease at the rear of the wheel shaft. Do not let the grease in excess, particularly in sandy areas grease the nipples with a grease pump, use only a good quality grease NLGIn°0.

AIR FILTER

- Dismant the air filter by the two wing nuts (A Figure 9). blow the cartridge "B" with low air pressure from the inside to the outside, opposite to the normal air flow. Change the cartridge if it is too dusty or after five cleaning.
- Clean the foam "C" with water and soap. Dry the foam before and oil slightly with engine oil, then assembling again.

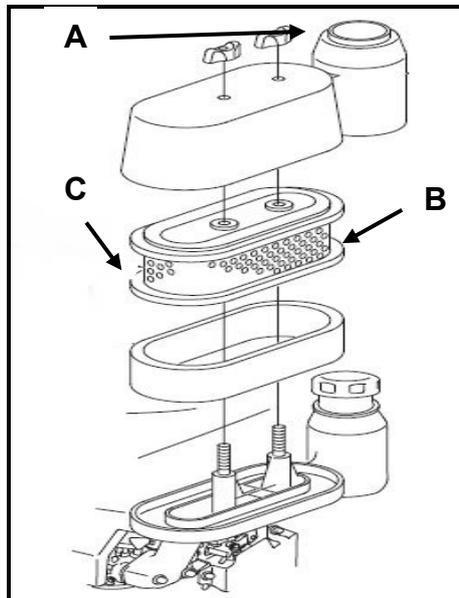


Figure 9

ENGINE OIL LEVEL:

Refer to engine manual

MONTHLY MAINTENANCE

DRIVING WIRE ADJUSTMENT:

When you pull the lever for driving (Figure 10, 1) the machine start to move, there must be a distance of between 20 and 30 mm (Figure 10).

If this is not the case, adjust the tension of the change wire by first loosening the idler adjustment nut (Figure 10,A) and then by screwing the idler adjustment nut (Figure 10,B) until the distance is correct. Repeat the procedure if it is incorrect.

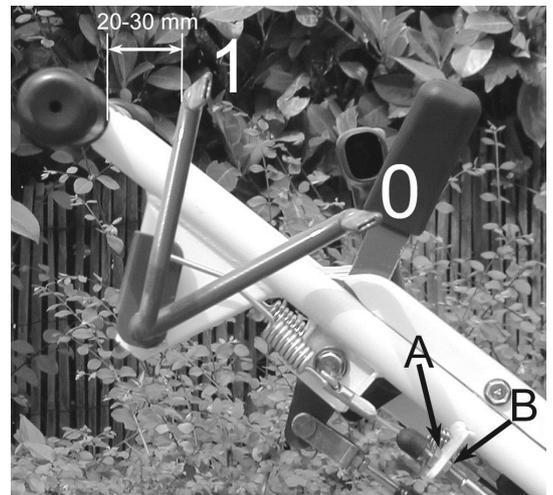


Figure 10

BLADE WIRE ADJUSTMENT

Play of the blade wire:

This wire must set the blade lever between 3-8 mm (Figure 11). If this is not the case, adjust the tension of the blade wire by first losing the tension adjustment nut (A, Figure 10), and then by adjusting the tension adjustment nut (B, Figure 10) until the play is correct. Tighten the tension adjustment nut to secure it then check if the setting is correct. Repeat the procedure if it is incorrect.



Figure 11

CHANGE WIRE:

If the machine does not stop when the driving lever is released, unscrew the tension adjusting nut of the change wire (B, Figure 12). Adjust the tension adjustment nut of the change wire if necessary. Tighten the adjustment nut to secure it then check if the machine is operating normally. Repeat the procedure if the machine does not function normally. If, despite the adjustment of the change and driving lever to the correct settings, the machine does not move, do the following.

Unscrew the nut (A, Figure 12) and screw change cable adjustment nut (B, Figure 12) and adjust the change wire nut (B, Figure 12). Tighten the lock to secure it then check if the machine is operating normally. Repeat the adjustment procedure if the machine does not function normally.

DIFFERENTIAL LOCK WIRE

It is necessary to tighten the wire if the differential is not engaged or slacken the wire if the differential lock is not adjustable.

To tighten the wire, loosen the tensioner (C, Figure 12) and tighten the lock nut against (C, Figure 12).

To slacken the wire, loosen the tensioner, adjust the tensioner, then tighten the lock nut to secure. Refer to the engine manual supplied with the machine.

BELTS ADJUSTMENT :

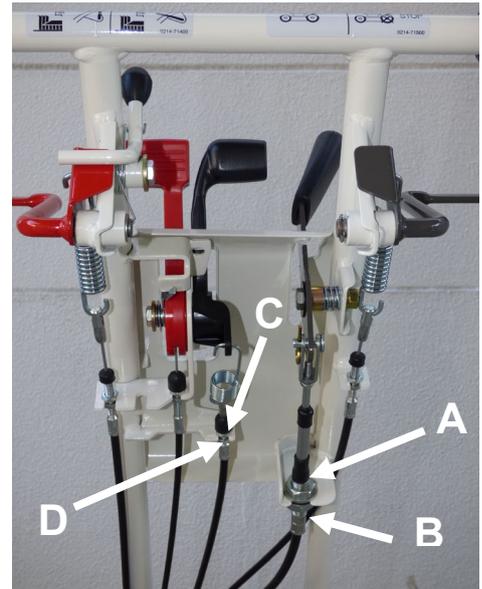


Figure 12



WARNING

A loosen belt may slips and worn quickly, a too tighten belt may worn bearings.

- Check for belt condition, cracks and wear. Replace if necessary.

Transmission belt

Blade belt

- Stop engine and disconnect sparking cover, clutch the blade.
- Engage blade lever and push the belt with a finger on the belt must move from 10 to 12 mm. If the belt does not move accordingly, adjust the tension wire near the lever.
- Check that the belt guides are close 4 or 6 mm from the tighten belt.
- Fit the belt cover with the bolts.

- Stop engine and disconnect sparking cover.
- Unscrew the bolts of the transmission cover to reach the belts.
- Engage travel lever and push the belt with a finger on the belt must move from 10 to 12 mm. If the belt does not move accordingly, adjust the tension wire near the lever.
- Check that the belt guides are close of 3 or 5 mm from the tighten belt.
- Fit the belt cover with the bolts

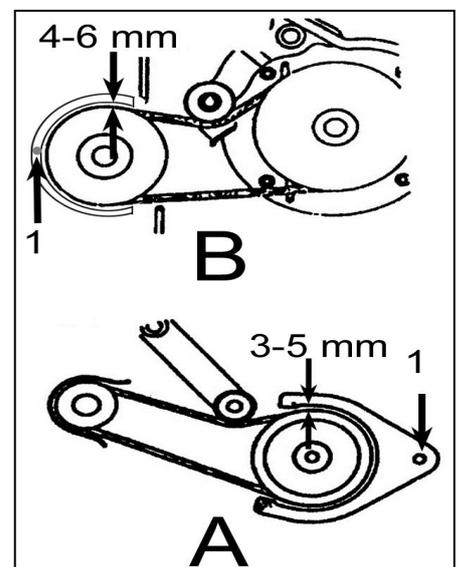


Figure 13

TIGHTENING OF BOLT AND NUTS

- Check for tightening of bolt and nuts according to the chart. Vibrations of the machine may loosen bolt and nuts.

Engine:

Refer to the engine manual, supplied with the machine.

Protection:

Make sure the rubber protections are in good condition. Change them immediately if damaged

ANNUAL MAINTENANCE

Change engine oil:

Drain oil early in the season or once a year.

Drain the oil when the engine is hot to facilitate the flow of oil.

Unscrew the drain plug and the oil filler cap (Figure 14).

Once all the previous oil, replace the drain plug.

Topped up with oil 0.65 L semi-synthetic oil SAE 10W30 or API SL class.

Check the oil level. It should be between 1 and 2 (Figure 15). If the level is low, add oil, remove in if you exceed the maximum level.

Apply and tighten the oil filler cap.

NOTE: Do not discard the used oil anywhere. Bring it to a recycling canter or to the nearest depot.

Engine oil replacement frequency.

First replacement : After 20 hours of operation	Later replacement: Each 100 hours or Every year whichever comes first.
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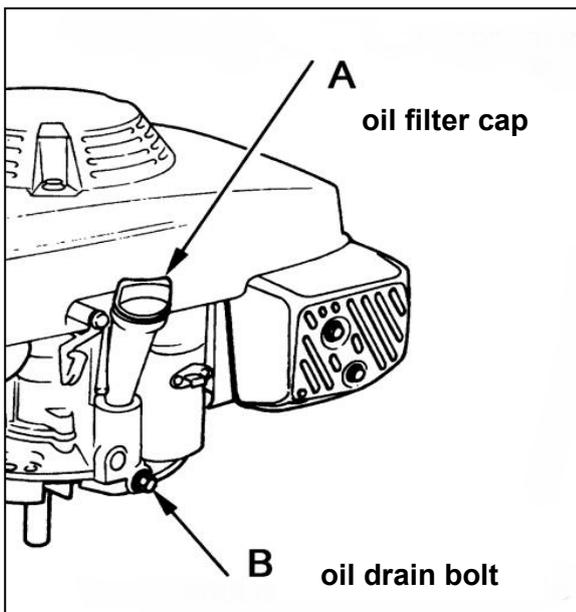


Figure 14

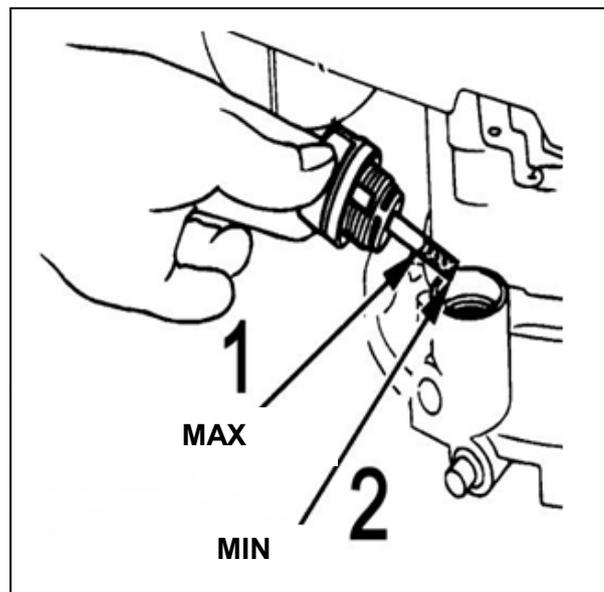


Figure 15

MAINTENANCE CHART

- Ask your dealer to realize this operation needing special tools and knowledge.
- ⊕ Inspection to realize by the owners before starting the engine
- ⊗ Inspection to realize by the owners after starting the engine

Part to inspect	Inspection	Every use	first 20 hours	Every 100 hours	Every 300 hours or Every year
Blade belt	Check belt tension		□	□	
	Check wear		□	□	
Fuel	refuelling	⊕			
	Fuel cock	⊕			
Flammables materials	Clean the machine from flammables materals	⊕			
Drive clutch lever	check machine do not move when lever is on "N"	⊗			
	Check travel lever goes on "N" when applying brake	⊗			
Chasis	Check for rust, and cracks				
Safety stickers	Check they are in place and in good condition	⊕			
Safety switches	Check for efficiency	⊗			
Guards & shields	Check they are bolted in their place and in good condition	⊕			
Tank and fuel hoses	Check for leaks and good condition Replace if needed	⊕			
Throttle lever	Check for efficiency	⊗			
Blades	Check they are bolted in their place and in good condition	⊕			
Blade clutch control lever	Check the adjustment of the wire	⊕	□	□	
Blade brake	Check the adjustment	⊕	□	□	
Blade belt	Check they tensionned and in good condition		□	□	
Engine	Refer to engine manual				
Rear Wheel	Clean inside of wheel Check if gears are properly greased.	⊕			

BREAKDOWNS AND SOLUTIONS

PROBLEM	CAUSE	SOLUTIONS
Engine does not start	No fuel	Refuel the tank
	Battery is empty	Load or replace the battery
	Safety switches are working	Check brakes, blade clutch and seat and travel lever
The machine does not drive	Parking brake is locked	unlock parking brake
The machine does not stop	Drive clutch lever is not on « N »	Move the drive clutch lever to « N »
The blade does not rotate	Blade clutch lever is not engage	engage Blade clutch lever
	Safety switches are working	Check brakes, blade clutch and seat and travel lever

TIGHTENING TORQUES (Nm)

Diameter of screw(mm)	Mark on the screw head				
	4 or without mark	7	8	9	11
3	0.3~0.5	---	---	---	---
4	0.8~1.0	---	---	---	---
5	2.5~3.4	5.4~6.4	6.4~7.4	6.4~7.4	8.8~9.8
6	4.9~6.9	9.8~11.8	11.8~13.7	11.8~13.7	14.7~16.7
8	11.8~16.7	24.5~29.4	29.4~34.3	34.3~36.2	36.3~41.2
10	20.6~29.4	39.2~44.1	49~53.9	49~53.9	72.6~82.4
12	44.1~53.9	83.4~93.2	93.2~107.9	93.2~107.9	122.6~137.3
14	63.7~78.5	117.7~132.4	132.4~147.1	147.1~166.7	205.9~225.6
16	88.3~107.9	152~171.6	176.5~196.1	215.8~245.2	313.8~343.2
18	117.7~137.3	205.9~235.4	245.2~274.6	313.8~343.2	441.3~470.7
20	147.1~166.71	235.4~274.6	313.8~353	441.3~480.5	617.8~657.1
22	176.5~205.9	421.7~451.1	539.4~578.6	608~647.2	843.4~882.6
24	235.4~264.8	539.4~568.8	706.1~745.3	784.5~823.8	1098.4~1137.6

EC CONFORMITY DECLARATION

Business name and full address of the manufacturer:

OREC CO LTD
548-22 HIYOSHI HIROKAWA-MACHI
YAME-GUN FUKUOKA JAPAN
S.A.T. sarl - Force 7 – ZA –
38110 ROCHETOIRIN France
owner of the technical documents

Designation : walk behind rotary mower
Mark : OREC
Type : FL500BC
Serial Identification :
Engine :
- Manufacturer : HONDA
- type : GXV160
- Power : 3,5 kW
Width of cut : 500 mm
Conforms to directives: 2000/14/EC, 2006/42/EC, 2004/108/EC
Conformity assessment : 2006/42/EC Annex VIII
Measured acoustic power level : 93.55 dB(A)
Granted acoustic power level : 96 dB(A)
Conformity assessment : 2000/14/EC Annex VI part 1
Notified body n°0088 : Lloyd's Register Quality Assurance
71 Fenchurch street London EC3S 4BS UK
Acoustic pressure level at operator's ears : 81.3 dB(A)
Harmonized standards used : EN ISO 5395-2013, EN ISO 14982-2009,
EN ISO 3744-2010, EN ISO 3746-2010,
EN1032-2003+A1-2008, EN ISO 20643-2008

made at : Fukuoka, 24 August 2016

Signed : Haruhiko Imamura
Function : Managing director



MEASUREMENT OF VIBRATIONS

Mark : OREC
Engine : GXV160

Type : FL500BC

Accelerometer Position	
100mm from external side of handlebar(Left side)	2,42 m/s ²
100mm from external side of handlebar(Right side)	2,24 m/s ²

EC CONFORMITY DECLARATION

Business name and full address of the manufacturer:

OREC CO LTD
548-22 HIYOSHI HIROKAWA-MACHI
YAME-GUN FUKUOKA JAPAN
S.A.T. sarl - Force 7 – ZA –
38110 ROCHETOIRIN France
owner of the technical documents

Designation : walk behind rotary mower
Mark : OREC
Type : FL500BC-Hi
Serial Identification :
Engine :
- Manufacturer : HONDA
- type : GXV160
- Power : 3,5 kW
Width of cut : 500 mm
Conforms to directives: 2000/14/EC, 2006/42/EC, 2004/108/EC
Conformity assessment : 2006/42/EC Annex VIII
Measured acoustic power level : 93.55 dB(A)
Granted acoustic power level : 96 dB(A)
Conformity assessment : 2000/14/EC Annex VI part 1
Notified body n°0088 : Lloyd's Register Quality Assurance
71 Fenchurch street London EC3S 4BS UK
Acoustic pressure level at operator's ears : 81.3 dB(A)
Harmonized standards used : EN ISO 5395-2013, EN ISO 14982-2009,
EN ISO 3744-2010, EN ISO 3746-2010,
EN1032-2003+A1-2008, EN ISO 20643-2008

made at : Fukuoka, 24 August 2016

Signed : Haruhiko Imamura
Function : Managing director



MEASUREMENT OF VIBRATIONS

Mark : OREC Type :FL500BC-HI
Engine : GXV160

Accelerometer Position	
100mm from external side of handlebar(Left side)	2,42 m/s ²
100mm from external side of handlebar(Right side)	2,24 m/s ²

