

# **WEIBANG<sup>®</sup>**

## **GARDEN MACHINES**

Yangzhou Weibang Garden Machine Company Limited  
Hanjiang Industrial Park, Yangzhou City, Jiangsu  
Province 225127, P. R. China

## **LAWN AERATOR**

MODEL:

WB456AH

WB457AB

WB516AH

WB517AB



## **Operator' s manual**

(Original instruction)



DO NOT operate this equipment until you have read and understood all the enclosed Operator' s Manual.  
READ ALL the sections in this manual PRIOR to attempting to service, maintain or operate this equipment.

# **Weibang Warranty Statement**

Weibang guarantees all weibang Professional Aerators to be free from any manufacturer's defects in material and workmanship for a period of one (1) year from the date of purchase. This warranty is exclusive of the engine (please consult the accompanying engine manual with your unit for details), and any normal wear and tear and/or consumable parts, such as, but not limited to, coring tines, clutch, clutch lining, drive belt, and throttle cable. All normal wear and tear and/or consumable parts are protected from manufacturer's defects in material and workmanship for a period of thirty (30) days from the date of purchase.

Weibang Warranty Summary	Protection
1. weibang Professional Aerator Unit	1 year parts and labour
2. weibang normal wear and tear parts or consumable parts	30 days parts and labour
3. Engine	Consult with engine manufacturer

To make a warranty claim within this time period, please contact the Service Manager of Local dealer, , who will advise the validity and claim procedure. Once the claim has been accepted by Local dealer, the unit and/or parts should be shipped to Local dealer or the specified Authorized Service Centre at the customer's expense. Be sure to securely pack the unit and parts in a strong container. Damage in transit is not covered by this warranty. All approved repairs under this warranty will be returned by Local dealer free of charge.

Warranties expressed in this document are void if repairs are attempted by anyone other than an Authorized Service Centre or Local dealer or if the unit has been modified from original factory design in any way. This warranty is expressly conditional upon the customer's compliance with all precautions and instructions contained in this manual and excludes any claims made as a result of abuse, neglect, accident, normal wear and tear and misuse. This warranty is nontransferable.

Weibang's liability under warranty is limited to repair of the product and/or replacement of parts and is given to the purchaser in lieu of all other remedies including incidental and consequential charges. There are no expressed warranties other than those specified herein.

# Weibang Warranty Registration

Congratulations for choosing a weibang product to meet all your tough jobsite needs! Please file your original bill of purchase for this unit in a safe place. For warranty service of your weibang product, you will need to provide a copy of this document to confirm your warranty status.

Product registration is a key step toward enjoying your new weibang product! While registration is not necessary to enjoy our manufacturer's warranty, there are many benefits to participating in this program. Registration helps to facilitate warranty service, and notify you of any updates, changes, and service advisories on your product. Complete this Warranty Registration Card and fax it to your dealer or mail it to the address on the back of this card:

Warranty Registration Information	
<i>A. Ownership Information</i>	
Owner's Name:	
Company Name:	
Company Address:	
Company Telephone:	
Company Fax:	
Company E-Mail:	
Company Website:	
<i>B. Machine Information</i>	
Machine Make:	
Machine Model #	
Machine Serial #	
Date of Purchase:	
<i>C. Product Information Update</i>	
Can we contact you with any product-related news?	
Who should we contact?	
Contact Telephone:	
Contact Fax:	
Contact E-Mail:	
What is the preferred contact method?	

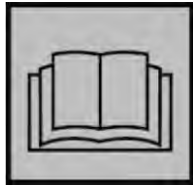
## ***Explanation of symbols on the shredders/chippers***



General hazard safety alert.



Beware of thrown or flying objects to bystanders.



Read instruction manual.



Keep bystanders away from the machine.



Beware of sharp blade(s).  
Keep hands and feet out of openings while machine is running.



Wear eye and ear protection.



Remove spark plug before maintenance.



The guaranteed value is :  $L_{WA}=102\text{dB(A)}$   
WB457AB      WB456AH



The guaranteed value is :  $L_{WA}=107\text{dB(A)}$   
WB517AB      WB516AH



# Aerator

## WEIBANG Gas Powered Aerator Operator's Manual

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**DO NOT** operate this equipment until you have read and understood all the enclosed Operator's Manual.

**READ ALL** the sections in this manual PRIOR to attempting to service, maintain or operate this equipment.

## Pre-Operation Note

Thank you for your purchase of the weibang Professional Aerator. This aerator has been designed and manufactured to our highest quality demands for durability and performance.

Weibang is committed to offering durable products and quality after-market service. The weibang Professional Aerator is warranted to be free from manufacturer's defects in material and workmanship for a period of one (1) year from the date of purchase. This warranty will be void if the machine has not been operated and maintained in the manner prescribed in this Operator's Manual. Any machine malfunctions, and/or warranty claims that arise from the misinterpretation or the misunderstanding of the instructions and cautions discussed in this booklet will not be eligible for warranty protection.

In order for the aerator to perform at its optimum capabilities, the operator must read this manual thoroughly before using this unit. This Operator's Manual contains important product operation procedures, safety precautions, maintenance and troubleshooting tips as well as other advisories. Please keep this manual nearby when operating the lift as a reference should any questions arise.

The weibang Professional Aerator is a self-propelled aerator designed for aerating established lawns and large grass covered areas. The machine should not be used for any other purpose than that stated above. The inappropriate use of any machine can cause serious damage and/or bodily harm to the environment and operator. It is imperative that the operator of this equipment be responsible for the operational environment of the aerator. Please be prepared and well-informed for all specific requirements precautions and work hazards that may and/or do exist at the jobsite.

Powered by a 5.5 hp Honda or 6.5 hp Briggs&Stratton engine, the weibang aerator is a powerful driving 24 replaceable spring steel coring tines on a reel for deep, penetrating aeration. For optimum aeration results, ensure that the lawn is mowed to its normal cut height, and thoroughly watered the day before aeration. Inspect your jobsite for any debris such as rocks, wiring, string or any other items that can become hazardous during work. Identify and mark all fixed objects to be avoided during work, such as sprinkler heads, water valves, buried cables, or clothes line anchors etc. The jobsite environment, soil conditions, job specifications and operator experience will all be factors that must be considered to select the proper tool for the job. Failure to maintain the aerator in a proper manner will lead to decreased productivity of the tool and hazards to the operator and bystanders. Do not use the machine if it has been modified or improperly maintained.

All jobsites are different. Please ensure that when using the weibang Aerator, all local bylaws and codes are followed. All operators and mechanics of this machine should be trained in general machine use and safety.

Every care and effort has been made to ascertain the accuracy and completeness of procedures described in this document to ensure your enjoyment and satisfaction. If you have any questions or concerns, please contact the Service Department of Local dealer.

Model	WB457AB	WB456AH	WB517AB	WB516AH
Engine model	Briggs&Stratton 750Series 5.5HP	HONDA GX160 5.5HP	Briggs&Stratton 750Series 5.5HP	HONDA GX160 5.5HP
Clutch	Tensional pulley			
Working width(mm)	450		530	
Aerate depth(mm)	70			
Aerate spacing (mm)	100x200			
Wheel size	Front10"x2.75'    Rear8"x2"		10"x2.75"	
Max.m²/h	1600		2700	
Bob weight(kgs)	16×2		Front 9.3kgx1    Rear 22.3kg x1	
Net weight(kgs)	140	136.5	173.5	170
Dimension L*W*H	1100x740x850mm		995x860x930mm	
Noise level Lpa	79.2dB(A) Kpa=2.5dB(A)		84.4dB(A) Kpa=2.5dB(A)	
Guaranteed noise power level Lwa	102dB(A)		107dB(A)	
Lpa at operator's position	82.8dB(A) Kpa=2.5dB(A)		87.6dB(A) Kpa=2.5dB(A)	
Vibration acceleration value: 2002/44/EC K=1.5m/s²	on handlebar grip    a <sub>hw</sub> = 7.6m/s²			

## Safety Precautions

1. READ AND UNDERSTAND OPERATOR'S MANUAL PRIOR TO USE OF AERATOR
2. Before operating aerator, ensure that it is structurally and mechanically safe by checking the following:
  - a. Are all engine controls and the clutch action functioning within acceptable tolerances?
  - b. Are the belt and chain in good condition?
  - c. Are wheel ratchets working properly?
  - d. Are the protective guards in place?
3. Before using the aerator on proposed jobsite, perform the following environmental checks:
  - a. Inspect the entire work area for unexpected buried hazards, such as boulders, foundations, and fencing
  - b. Clean work area of any litter or debris, such as wire, boards, rocks, or any other potential hazards
  - c. Know and mark the location of any and all buried utility lines or sprinkler systems. If in doubt, always check with your local utilities provider for survey information and assistance.
  - d. Check for ventilation in area. Do not operate the aerator or run the engine in unventilated areas.



**If any of the above checks fail, please take necessary steps to maintain or repair the unit before operating it in any environment.**



**Call your local utility company so that they can locate and mark these lines for you. Any cut electrical cable or gas line can result in injury or fatality.**

**ALWAYS OPERATE AERATOR OUTDOORS!!**

4. When operating the aerator, follow these guidelines for operator's personal safety:
  - a. Always wear proper safety clothing and equipment for the job. These can and should include eye and ear protection, gloves, dust mask and any other items that are appropriate for the job and jobsite requirements
  - b. Never wear any jewelry, neck ties, or other loose or hanging items that can be caught on any part of the machine
  - c. Tie back or remove any loose hair, clothing and any other potential hazards and obstructions
  - d. Keep all hands, loose clothing, hair, jewelry and all other personal parts and belongings away from moving parts of the machine.
  - e. Avoid coming in contact with the muffler and other engine parts after the engine is started and the time immediately after the machine is turned off. Machine and engine temperatures may exceed 150°F or 66°C. Machine must be allowed to cool before touching it or attempting to perform any maintenance!
5. For the safety of others and that of the operator, observe the following precautions:
  - a. Keep observers and bystanders away from the aerator and its immediate working environment (i.e.: the turf that is being aerated etc.) while the aerator is in use.
  - b. Stop operations or if anyone or anything (i.e.: humans, animals, debris etc.) approaches from the front or the sides while the machine is in operation.
  - c. Stop work and turn off the aerator if it hits any debris that jams the machine or causes it to labour unnecessarily. Inspect the aerator and surrounding environment for any possible causes.
  - d. If the machine is jammed, stop the engine and remove the sparkplug wire before attempting to clear any jams in the unit.
  - e. Never leave machine unattended
  - f. DO NOT, under any circumstances, operate machine if any of the following conditions are applicable:

- i. Any impairment (i.e.: medical conditions, medicinal side-effects, alcohol, drugs etc.) of the operator.
- ii. The operator has not read or understood the operator's manual for this machine.
- iii. The operator does not clearly understand the operations of the machine.
- iv. The machine is in need of repair
- v. The operator is inappropriately attired to operate the machine.

## Safety Precautions cont'd ...

6. Due to the nature of the machine and the tasks that it is designed to perform, the aerator may behave in the following manner:
- a. Always start aerating a safe distance away from any object such as a fence, foundation or any other structural obstructions. The coring tines could possibly catch and climb on the object.
  - b. Use extreme caution when operating aerator on uneven terrain. Do not risk the possibility of tipping over the machine or causing it to rollover.

## SAVE THESE INSTRUCTIONS!!

Regular maintenance and parts replacement are important steps to extending the life of your equipment and enjoying its optimum performance. When performing or conducting any maintenance or repairs, always check that your working surroundings are safe and well-ventilated and that the technician is familiar and comfortable with all aspects of the machine and required procedures.

This guide aims to serve as a representational guide to the aerator. Any other uses or application beyond the scope of this document are strictly prohibited. While every attempt has been made to maintain its accuracy, Local dealer Inc. reserves the right to update and modify the equipment without prior notification. Prior to undertaking to perform any maintenance or repair procedures, please contact our Technical Support Hotline for clarification and to acquire appropriate parts.

To order spare parts, please provide the following information:

- 1 Machine Make
- 2 Model Number
- 3 Machine Serial Number
- 4 Quantity Required of Each Part
- 5 Part Numbers
- 6 Part Descriptions.

All weibang parts are guaranteed by a thirty (30) day warranty against any manufacturer's defects in workmanship and material.

## Contents list

**Prior to setting up the professional aerator, check that the following items are enclosed:**

Item	Quantity	Check if enclosed
WEIBANG Professional Aerator Unit	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
WEIBANG Professional Aerator Unit Handle	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
WEIBANG Professional Aerator Operator's Manual	1	<input type="checkbox"/> Yes <input type="checkbox"/> No
Original Engine Manufacturer's Manual	1	<input type="checkbox"/> Yes <input type="checkbox"/> No

If any of these items are missing, please contact your local dealer at once.

DO NOT ATTEMPT ASSEMBLY OR OPERATION WITHOUT ANY OF THESE LISTED PARTS!

## Setting up the aerator

1. Cut away and remove box from aerator.
  - a. The aerator is a heavy unit. DO NOT ATTEMPT TO MANUALLY LIFT FROM BOX ALONE!



**MAKE** sure that **BOTH** people lifting the machine are capable of lifting at least 100 lbs/45.36 kgs individually!!  
**NEVER ATTEMPT TO LIFT THE MACHINE WITH ONLY ONE PERSON!!**

2. Fold handle into upright position.
3. Tighten cam lock on the handle to ensure that it is securely attached to the aerator unit.
4. Check engine to ensure that it is filled with oil.
5. Verify with Engine Manufacturer's Manual for any further procedures to prepare engine for use.

## Pre-Operation Procedures

Before using the Professional Aerator, please perform the following procedures for the personal and property safety of the operator and jobsite and for optimal performance.

1. Before operating the aerator ensure that it is structurally and mechanically safe by checking the following:
  - a. Perform a detailed visual inspection on the machine with particular attention to the following:
    - i. Are there any loose, worn or damaged parts? If so, DO NOT ATTEMPT TO OPERATE THE MACHINE. Make note of required parts, and contact Local dealer for replacement parts and further assistance to service the unit PRIOR to any further use.
    - ii. Is the machine, particularly the coring wheel and tines, clean and free of debris? Small rocks and other foreign objects can jam machine and cause the unit to malfunction, leading to serious injury to the operator and property damage on the jobsite.
    - iii. Are there any cracks or damage on the engine? Consult with the engine manufacturer's manual for guidelines and instructions on service. DO NOT ATTEMPT TO OPERATE THE MACHINE until engine is refurbished to engine factory standards.
    - iv. Are the latches for the removable weights securely bolted onto the aerator? If not, ensure that they are firmly attached to the unit to prevent removable weight bars from sliding out of the machine or losing parts and creating debris that could jam the machine and cause it to malfunction.
    - v. Are the coring tines engaged in the traveling position (i.e: raised from the working surface)?  
 Ensure that the coring reel is securely raised away from the working surface until arrival at jobsite. Moving the aerator with the coring tines in the lowered working position can damage the unit and jobsite.
  - b. Inspect the handle for the following:
    - i. Is the handle properly and securely attached to the machine?
    - ii. Is the handle set in the correct operating position and secured by locking the cam lock?

- c. Consult the "Inspection Schedule" section of this manual and verify that:
  - i. The ball bearings, casters and chain are lubricated and in good condition.
  - ii. The coring tine reel and coring tines are clean and not in need of replacement. Consult the "Maintenance Procedures" section of this manual for guidelines and instructions on when and how to change the coring tines.
  - iii. The drive belt and chain are in good condition and set to the appropriate tension. Consult the "Maintenance Procedures" section of this manual for guidelines and instructions on taking care of the belt and chain.
  - iv. The torque on the tine reel nut is set to 100 ft.lbs/135.58 Nm. Reset the torque with a torque wrench to the appropriate level.



**THE NUT MUST BE MAINTAINED AT THE APPROPRIATE TORQUE OR THE MACHINE CAN MALFUNCTION, THEREBY CAUSING SEVERE BODILY DAMAGE AND/OR PROPERTY AND JOBSITE DAMAGE.**



**If any of the above checks fail, please take necessary steps to maintain or repair the unit before operating it in any environment.**

- 2. Before operating the aerator perform the following environmental checks:
  - a. Is the ground where the aerator will be operating level and solid? If it is a slope of more than 35% grade, please refer to "Aerating on Inclined Surfaces" under the "Operation Procedures" section of this manual.
  - b. Has the lawn been cleared of debris such as string, wire, rocks, metal and other materials? Such items could cause malfunction or damage to the aerator that could also be potentially hazardous to the machine and operator.
  - c. Are all obstructions such as sprinkler lines, electrical boxes, fences etc. clearly marked?

## Operation Procedures

### A. Transporting the AERATOR

- 1. Unlatch the removable weight locks and remove the 2 weight bars.
- 2. Fasten the locks securely to the aerator and store the weight bars away.
- 3. Release cam lock on handle and fold down the handle over the engine until the handle is resting against the machine.
- 4. Working with a partner, have each person grab a lifting handle on the aerator and lift the unit to the transportation vehicle.
  - i. ALWAYS use safe lifting techniques to avoid back or muscle injury! Consult your local health and safety organization for tips and best practices for moving heavy machinery.
  - ii. The AERATOR is a HEAVY machine. The net weight without the removable weights is 198 lbs (89.81 kgs). ALWAYS remove and store the weights away safely prior to any lifting.



**MAKE** sure that **BOTH** people lifting the machine are capable of lifting at least 100 lbs (89.81 kgs) individually!!  
**NEVER ATTEMPT TO LIFT THE MACHINE WITH ONLY ONE PERSON!!**



### B. Preparing to aerate

1. For optimum results, make sure that the ground is soft and moist to allow easy aeration. To determine soil conditions, check whether a garden hand spade can be easily driven into the soil about 2" to 3" (5 cm to 7.6 cm ) deep. If not, water work area ONE DAY before aerating to properly prepare the ground.
2. Check for the slope of any inclined area. This machine is NOT recommended on use on slopes with more than 35% grade.
3. If the removable weights are being used, ensure that they are securely latched in by tightening the bolts on the security latch. If the weights are not in use, store them safely away and verify that the security latches are firmly attached to the aerator.
4. Before operating the aerator, check that the engine is in good order in accordance with the engine manufacturer's handbook.

### C. Aerating on Flat Surfaces

1. Start engine and adjust throttle speed to comfortable walking speed for the operator to maintain control of the aerator at all times.
2. Push down the rear wheel control handles to lower coring tines into the ground.
3. For control and increased tine penetration, push handle down to operate at waist level.
4. Engage clutch control and release to stop aerator.



**ALWAYS keep coring tines RAISED where there is any possibility of crossing hard objects or surfaces such as rocks, pavement, etc.)**

5. To turn the aerator, choose either:
  - i. Release clutch control, pull up on the rear wheel control handle, and pivot on rear wheels OR
  - ii. Release clutch control handle, lift handle bars and pivot machine on front wheels.



**DO NOT USE EITHER OF THE ABOVE METHODS WHEN OPERATING ON HILLS!**  
Refer to following section for further details!

## Operation Procedures cont'd ...

### D. Aerating on Inclined Surfaces

1. When operating on inclines, note the following:
  - i. THIS MACHINE IS NOT DESIGNED FOR USE ON INCLINES OF MORE THAN 35% GRADE.



**IF MACHINE IS USED ON EXTREME INCLINES, THE MACHINE MAY BECOME UNBALANCED TO THE POINT OF PRESENTING THE DANGER OF ROLLING OVER.**

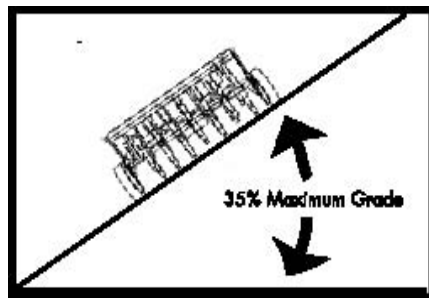
- ii. Aerating on inclines will cause the centre of gravity of the unit to shift to the

downward side of the machine. The following conditions may occur as a result:

1. Greater effort and physical exertion may be required to maneuver and control the balance of the machine.
2. Uneven aeration results from the shift in gravity leading to downhill tines penetrating to their maximum depth and the uphill tine working at minimum capacity.

2. Consider the following tips for aerating on inclines:

- i. Move machine up and down on the hill rather than across hills for greater control and even penetration (see above for explanation and Diag.1 below for diagram) Angle aerator such that it is 45° to the slope.



Diag.1: Aerating on inclined site

- ii. Remove the removable weights when aerating downhill for improved balance and aerating results.

**! Disengage tines from ground only when machine is on a flat surface. NEVER DISENGAGE TINES WHEN TRAVELLING UP OR DOWN**

## Storing the aerator

1. Ensure that the area in which the machine will be stored is well-ventilated and free of any potential fire hazards such as open flames, gas appliances, furnaces, water heaters, and other appliances.
2. Clean and lubricate machine prior to storage.
3. Lightly lubricate coring tines and rotor to inhibit rusting.
4. Touch-up any scratches or damaged area exposing metal to the elements.
5. Order and re-apply any safety labels. Refer to "Information on Safety Decals" in "Parts Breakdown Section" of the manual for placement and parts numbers.
6. Verify with engine manufacturer's handbook for guidance on preparing engine for storage.
7. Store unit in transport position (see "Transporting the AERATOR" in "Operation Procedures" section)
8. Store the machine in a covered or indoor storage area for increased protection and longevity.

## Maintenance Procedures

This section encompasses two general types of maintenance: 1. Preventative Maintenance and 2. General Service. The first refers to regularly scheduled routine care of the aerator, such as cleaning and lubrication. The second provides information on common procedures, such as changing tines, and adjusting chain tension that are to be performed as needed.

By following the Inspection Schedule below BEFORE and AFTER each use of the aerator,



appropriate actions can be taken to extend the service life of the machine and reduce any costly repairs and unnecessary downtime for the unit.



### A. Inspection Schedule

The following list aims offer some basic guidelines to performing a detailed inspection BEFORE and AFTER each use. Certain checks will require some disassembly, i.e. the removal of the drive guard, to perform. Depending on various environmental conditions and frequency of use, other inspection points may have to be added for each machine.

Item	Yes	No
Is the engine oil filled to recommended levels? Consult Engine Manufacturer's Manual.		
Is the gear box well lubricated and clean? Check p.17 "Lubrication Schedule".		
Is the engine air cleaner properly attached and clean? Consult Engine Manufacturer's Manual.		
Is the clutch cable properly attached? Refer to p.12 "Setting up the Aerator" for details.		
Is the clutch cable worn or visibly damaged? Replace if necessary.		
Is the chain tension properly set for jobsite? Refer to p.19 "Adjusting the Drive Chain" for details.		
Is the drive chain and surrounding area clean and free of any debris? Clean if necessary.		
Is the drive belt tension set properly? Refer to p.19 "Changing and Adjusting the Drive Belt" for details.		
Does the drive belt show signs of wear and tear? Replace if necessary.		
Are all tines in good condition? Are any tines worn down to minimum length of 4-3/8"? If so, have they been replaced?		
Are the sprockets and set screws showing signs of wear? If so, make sure that the sprockets will be replaced before any further use as worn sprocket can lead to chain slippage and other mechanical issues that may cause serious harm to the jobsite and/or bodily damage to the operator.		
Is the carriage securely fastened and free of all debris? Lingering debris may lead to premature wear on the machine and shorten performance life.		
Are the safety warning labels and other decals clearly identifiable and legible? If not, ensure that fresh decals will be re-applied prior to use for operator safety.		

### B. Preventative Maintenance Procedures

Maintaining a regular cleaning and lubrication schedule as well as taking time to perform preventative maintenance procedures will prolong the service life of the aerator. The following are guidelines to setting up a regular maintenance routine for the aerator.

#### 1. Cleaning the AERATOR

- i. After each use, the aerator, in particular the coring tine and rotor assembly, should be cleaned and washed of any dirt or debris that may be trapped in the unit.
- ii. When using a power pressure washer to clean the unit, DO NOT USE ANY MACHINE RATED HIGHER THAN 1000 PSI.
- iii. Beware of damaging any warning decals and labels, as well as the drive chain, bearings and engine. Limit direct spray on these objects to help prevent their wear and tear.
- iv. For easier access to cleaning the aerator, the machine may be tipped on its engine guard for NO MORE THAN 2 MINUTES. Engine damage may result from gasoline flowing into the crankshaft due to prolonged tipping.

## Maintenance Procedures cont'd ...

### 2. Lubrication Schedule

Regularly scheduled lubrication of the drive chain, gear box, rear wheels, tines & rotor assembly, and linkage joints in the carriage is essential to smooth performance and extended equipment life. The following schedule is a recommended guide to lubricating your aerator. The schedule should be adjusted for various environmental conditions and frequency of use.

Item	Suggested Lubricant	Every 20 hours	Every 60 hours	As required	After each pressure wash	Storage
Engine	Refer to Owner's Manual for Engine			*		
Gear Box	SAE80W90			* 200 hours		
Wheels	Lithium-based Grease		*	*	*	*
Drive Chain	Spray-on Graphite Dry Lubricant	*		*	*	*
Coring Tines	Mineral-based Rust Inhibiting Oil			*	*	*
Linkage	30W Oil	*		*	*	*
Zerks	Lithium-based Grease			*	*	*

### C. General Service Procedures

The following are general guidelines for servicing common wear components on the Aerator. ALL MAIN-TENANCE AND SERVICE WORK MUST BE PERFORMED BY A TRAINED AND EXPERIENCED TECHNICIAN. Ensure that the work area is clean and free of debris prior to starting any maintenance or service work. Small particles may become trapped in key components that may lead to serious damage to the machine and cause severe bodily harm to the operator or technician.

Before performing any service and maintenance procedures, consult these general safety procedures for a safe working environment.

1. Make sure that both the engine and aerator are cool prior to any service or maintenance work.
2. Verify that work area is clean and free of any debris, tripping or fire hazards, and other potential sources of danger.
3. Always wear proper safety clothing and equipment for the job. These can and should include eye and ear protection, protective helmets, gloves, dust mask and any other items that are appropriate for the job and jobsite requirements
4. Ensure that the technician has tied back or remove any loose hair, clothing and any other potential hazards and obstructions
5. Disconnect spark plug.
6. Remove both weights and refasten safety latch.



**Technician should read and thoroughly understand all manuals pertaining to the machine to be serviced. Do NOT proceed with any service and maintenance activity until ALL questions and concerns have been addressed. Please call your dealer for technical support and advice.**



**ALWAYS** consult and verify that all local codes and bylaws are followed before performing any service or maintenance procedures.

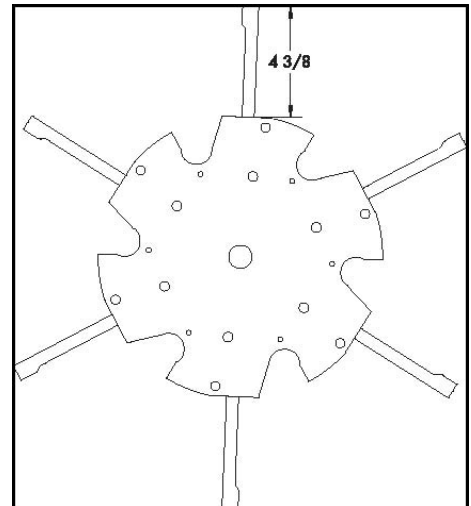
## Maintenance Procedures cont'd ...



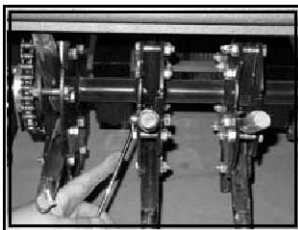
Use **WEIBANG** parts for compatibility and optimum performance. Use of any other parts prior to consulting with **WEIBANG** will void all warranties expressed herein.

**1. Replacing Individual Tines** Tines are a normal wear and tear item. If tines are shorter than 4-3/8" (see diagram 2), they must be changed before the next use of the aerator. To ensure consistency, it is recommended that both tines and tine fastening kit are replaced in complete sets of 6 per tine reel.

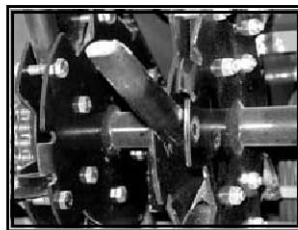
- i. Fold handle over aerator and with the assistance of another person, lift aerator to work bench.
- ii. Brace wheels to prevent the machine from rolling or otherwise moving on work area.
- iii. Refer to fig.1 and note direction in which the "spoon" section of the coring tine is facing. Make sure that all spoons follow the same orientation when re-installing new parts.
- iv. Remove and set aside both retaining and stop bolts on tine reel (see fig.1). Remove old tine and discard. Inspect bolts and lock nuts for wear.
- v. Insert new tine (fig.2) and make sure that it follows the direction as noted in step 3. Line up the tine to the holes for the retaining and stop bolts (see fig.3).
- vi. Insert bolts back into holes. The retaining bolt goes through the tine wheel and bolt, while the stop bolt goes on top of the covered side of the coring tine (see fig. 4). Fig.5 shows incorrect placement of the bolts. Tighten all bolts and repeat for all other tines.



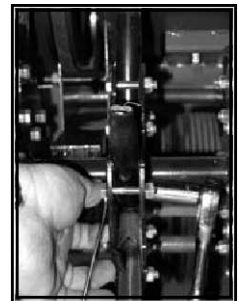
Diag.2: Correct tine length reference



**Fig.1:** Tines facing in proper direction



**Fig.2:** Line-up new tine to retaining and stop bolt holes



**Fig.3:** Tighten all lock nuts and bolts



Fig.4: Correct bolt positioning



Fig.5: Incorrect bolt positioning

## Maintenance Procedures cont'd ...

### 2. *Adjusting the Drive Chain*

- i. Remove drive guard (see fig.6)
- ii. Loosen idler bolt and lock nut (see fig.7)
- iii. Turn idler adjustment bolt to allow 1/8" to 1/4" slack on chain. DO NOT over tighten drive chain!
- iv. Tighten lock nut to maintain desired tension. Re-install drive guard.

### 3. *Changing the Drive Chain*

- i. Remove drive guard.
- ii. Loosen idler bolt and lock nut (see fig.7)
- iii. Manually rotate the drive chain until main link is accessible. Remove main link.
- iv. Remove drive chain.
- v. Inspect and affirm that the drive sprockets are aligned. Check that set screws are in good condition.
- vi. Carefully drop new drive chain over top sprocket (see fig.8). Feed chain through sprockets and re-fasten with main link (see figs.9,10 & 11)
- vii. Adjust drive chain tension as per instructions outlined in "Adjusting the Drive Chain" section.

### 4. *Changing and Adjusting the Drive Belt*

Do not proceed with drive belt adjustment until engine is cool. Do not adjust drive belt until engine has been disabled. Disable engine by removing key from switch and then removing spark plug wire and battery cable. Be sure to wear personal protective equipment.

If it is needed to replace drive belt, please contact your local dealer for details.



**New belts have a break-in period and must be checked after 15 hours of use.**



**Fig. 6:** Removing the drive guard



**Fig. 7:** Loosen idler bolt and nut



**Fig. 8:** Drop chain on top sprocket



**Fig. 9:** Loop chain around top sprocket



**Fig. 10:** Guide chain under rotor sprocket

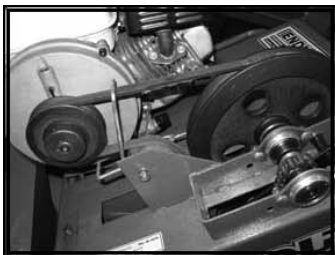


**Fig. 11:** Bring chain around wheel sprocket

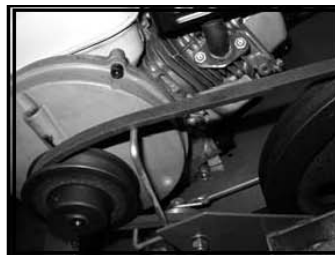
## Maintenance Procedures cont'd ...

### 5. Replacing the Rotor Assembly and Bearing Assemblies

- i. Follow steps 1-4 in "Changing the Drive Chain".
- ii. Unbolt bearing assemblies from both ends of the rotor (see fig. 15).
- iii. Remove rotor assembly (see fig. 16).
- iv. Inspect bearing assemblies and sprocket for any wear. Replace if necessary.
- v. Reverse these steps to re-install the rotor.
- vi. Follow steps 5-7 to reinstall drive chain.
- vii. After re-installing the chain, verify that the drive chain tension is set appropriately. See "Adjusting the Drive Chain" for instructions.



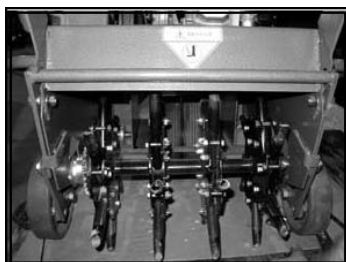
**Fig. 12:** Correctly installed drive belt



**Fig. 13:** Incorrectly installed drive belt



**Fig. 14:** Adjusting belt tension on clutch cable



**Fig. 15:** Rotor will drop when bearing assemblies are removed



**Fig. 16:** Completely remove rotor and set aside with drive chain and other components for re-installation



## Troubleshooting

Often, small problems can occur in daily operation of any machine. The following troubleshooting guide aims to address common issues and offer suggestions on how to correct such problems.

Please review this guide before requesting service. Small problems can often be fixed simply by following these guidelines. If there are any further questions or concerns, please do not hesitate to contact Local dealer for assistance!

Problem	Possible Causes	Suggested Solutions
Engine stalls or labours when aerating	Working on too steep a slope	Turn aerator 45° and move up and down the slope at this angle instead of across the slope.
Abnormal or excessive vibration	Damaged or missing tines Loose handle bolts Loose engine bolts	STOP WORK IMMEDIATELY Replace any damaged or missing tines and tighten all bolts and nuts.
Engine will not start	Stop switch is off. Throttle in "off" position. Engine not in full choke position. Out of gasoline. Bad or old gasoline. Spark plug wire is disconnected or improperly connected. Engine oil level too low (Oil Alert). Dirty air cleaner	Check that all switches are on. Verify that throttle and choke position are in proper setting. Fill gas tank up. Empty and dispose of bad/old gasoline as per local bylaws. Refill with new gasoline. Reconnect spark plug wire. Refill engine oil. Clean or replace air filter.
Engine is locked and will not pull over	Debris locked up against rotor assembly and/or drive pulleys. Engine problem.	Disconnect spark plug wire and remove debris prior to restarting machine. Refer to engine owner's manual for instructions on any engine problems.
Engine is making loud noises or unusual sounds	Gear box oil level is low.	Refill gear box with oil. If problem still persists, contact your Local dealer.
Unit does not move when clutch is engaged	Drive belt out of adjustment. Loose or damaged drive chain and pulleys. Damaged or broken clutch cables.	Refer to "Maintenance Procedures" in this manual for further details. Contact Local dealer for further assistance.



**ALWAYS MAKE SURE THAT THE MACHINE IS TURNED OFF AND ON STABLE GROUND PRIOR TO PERFORMING ANY SERVICE OR TROUBLESHOOTING PROCEDURES.**

## WEIBANG WARRANTY STATEMENT

WEIBANG GARDEN MACHINES COMPANY LIMITED guarantees all WEIBANG Professional Lawn areator to be free from any manufacturer's defects in material and workmanship for a period of one (1) year from the date of purchase . This warranty is exclusive of the engine (please consult the accompanying engine manual with your unit for details), and any normal wear and tear and/or consumable parts, such as, but not limited to, flails, spacers, clutch, clutch lining, drive belt, and throttle cable. All normal wear and tear and/or consumable parts are protected from manufacturer's defects in material and workmanship for a period of thirty (30) days from the date of purchase.

Weibang Warranty Summary	Protection
1. WEIBANG Professional Lawn areator Unit	1 year parts and labour
2. WEIBANG normal wear and tear parts or consumable parts	30 days parts and labour
3. Engine	Consult with engine manufacturer

To make a warranty claim within this time period, please contact your local weibang authorized dealer, who will advise the validity and claim procedure. Once the claim has been accepted, the unit and/or parts should be shipped to the specified Authorized Service Centre at the customer's expense. Be sure to securely pack the unit and parts in a strong container. Damage in transit is not covered by this warranty. All approved repairs under this warranty will be returned free of charge.

Warranties expressed in this document are void if repairs are attempted by anyone other than an Authorized Service Centre or your local authorized dealer or if the unit has been modified from original factory design in any way. This warranty is expressly conditional upon the customer's compliance with all precautions and instructions contained in this manual and excludes any claims made as a result of abuse, neglect, accident, normal wear and tear and misuse. This warranty is non-transferable.

Yangzhou Weibang Garden Machine Company Limited  
Hanjiang Industrial Park  
Yangzhou, Jiangsu, P.R. CHINA

Tel : +86-514-87849959 Fax: +86-514-87849938

Email questions and comments to:

[Sale@weibang.com](mailto:Sale@weibang.com)

Visit our website:

[www.weibang.com](http://www.weibang.com)

# DECLARATION OF CONFORMITY

Business name of the manufacturer: Yangzhou Weibang Garden Machine Company Limited  
full address of the manufacturer: Hanjiang Industrial Park, Yangzhou City,  
Jiangsu Province 225127, P. R. China

name and address of the person (established in the Community) compiled the technical file:  
Van Dyck Marcel Belgium, Provinciebaan 79, 2235 Houtvenne Belgium

We declaring that the machinery :

product name: Lawn aerator

commercial name:Lawn aerator

function: Penetrating the lawn surface

model: WB457AB, WB456AH, WB517AB, WB516AH

type: Gasoline

Serial Number:

Noise at ear, L<sub>PA</sub> : WB457AB,WB456AH 82.8 dB(A), K=2.5 dB(A),

WB517AB,WB516AH 87.6 dB(A), K=2.5 dB(A),

Guaranteed, L<sub>WA</sub> : WB457AB,WB456AH 102 dB(A)

WB517AB,WB516AH 107 dB(A)

Vibration, ah: 7.6 m/s<sup>2</sup>, K=1.5 m/s<sup>2</sup>

fulfils all the relevant provisions of Directives

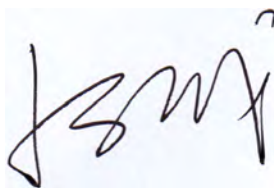
2006/42/EC, 2004/108/EC

tested in accordance with below standards

EN13684:2004+A3:2009

place and date of the declaration: Yangzhou, P. R. China 2014-10

signature of the person:



General manager



## WEIBANG WARRANTY REGISTRATION

### Customer keep

Congratulations for choosing an WEIBANG product to meet all your tough jobsite needs! Please file your original bill of purchase for this unit in a safe place. For warranty service of your WEIBANG product, you will need to provide a copy of this document to confirm your warranty status.

Product registration is a key step toward enjoying your new WEIBANG product! While registration is not necessary to enjoy our manufacturer's warranty, there are many benefits to participating in this program. Registration helps to facilitate warranty service, and notify you of any updates, changes, and service advisories on your product. Complete this Warranty Registration Card and fax it to \_\_\_\_\_ or mail it to the address on the back of this card within 14 days.

Data Protection: your data will be held and used by WEIBANG and their authorized dealers for warranty administration and marketing purposes only. WEIBANG will not forward this data to third parties.

If you do not wish to receive marketing information please tick box. ☐

Warranty Registration Information			
<i>A. Ownership Information</i>			
Owner's Name:			
Owner's Address:			
Post code:		Country:	
<i>B. Machine Information</i>			
Date of purchased:			
Machine Model:			
Machine Serial No:			
<i>C. Product Information Update</i>			
Can we contact you with any product-related news?			
Who should we contact?			
Contact Telephone:			
Contact Fax:			
Contact E-Mail:			
What is the preferred contact method?			
<i>D. Signature</i>			
Dealer name/address		Signature	
Customers: My signature hereby confirms that I have received the operating instruction intended for the device, instructions and the device free of obvious defects.		Signature	

## WEIBANG WARRANTY REGISTRATION

### Dealer

Congratulations for choosing an WEIBANG product to meet all your tough jobsite needs! Please file your original bill of purchase for this unit in a safe place. For warranty service of your WEIBANG product, you will need to provide a copy of this document to confirm your warranty status.

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If you do not wish to receive marketing information please tick box. ☐

Warranty Registration Information			
<i>A. Ownership Information</i>			
Owner's Name:			
Owner's Address:			
Post code:		Country:	
<i>B. Machine Information</i>			
Date of purchased:			
Machine Model:			
Machine Serial No:			
<i>C. Product Information Update</i>			
Can we contact you with any product-related news?			
Who should we contact?			
Contact Telephone:			
Contact Fax:			
Contact E-Mail:			
What is the preferred contact method?			
<i>D. Signature</i>			
Dealer name/address		Signature	
Customers: My signature hereby confirms that I have received the operating instruction intended for the device, instructions and the device free of obvious defects.		Signature	

## WEIBANG WARRANTY REGISTRATION

### Return to weibang

Congratulations for choosing an WEIBANG product to meet all your tough jobsite needs! Please file your original bill of purchase for this unit in a safe place. For warranty service of your WEIBANG product, you will need to provide a copy of this document to confirm your warranty status.

Product registration is a key step toward enjoying your new WEIBANG product! While registration is not necessary to enjoy our manufacturer's warranty, there are many benefits to participating in this program. Registration helps to facilitate warranty service, and notify you of any updates, changes, and service advisories on your product. Complete this Warranty Registration Card and fax it to \_\_\_\_\_ or mail it to the address on the back of this card within 14 days.

Data Protection: your data will be held and used by WEIBANG and their authorized dealers for warranty administration and marketing purposes only. WEIBANG will not forward this data to third parties.

If you do not wish to receive marketing information please tick box. ☐

Warranty Registration Information			
<i>A. Ownership Information</i>			
Owner's Name:			
Owner's Address:			
Post code:		Country:	
<i>B. Machine Information</i>			
Date of purchased:			
Machine Model:			
Machine Serial No:			
<i>C. Product Information Update</i>			
Can we contact you with any product-related news?			
Who should we contact?			
Contact Telephone:			
Contact Fax:			
Contact E-Mail:			
What is the preferred contact method?			
<i>D. Signature</i>			
Dealer name/address		Signature	
Customers: My signature hereby confirms that I have received the operating instruction intended for the device, instructions and the device free of obvious defects.		Signature	



Fold along dotted line


Place  
Stamp  
Here

ATTN: SERVICE DEPARTMENT

Fold along dotted line

