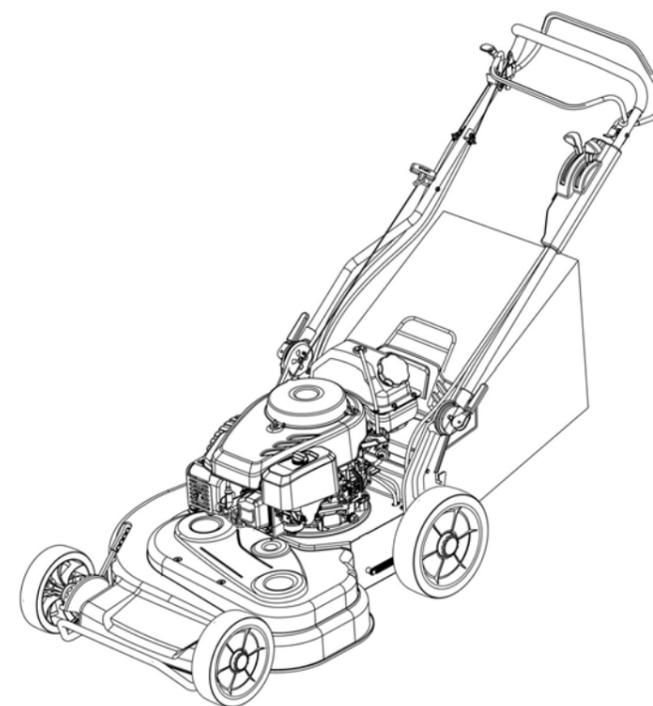


WEIBANG® GARDEN MACHINES

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

Commercial Mower

Model Numbers:
WB778SLC V-3in1



Operator's manual
(Original instruction)



Fold along dotted line

Place
Stamp
Here

ATTN: SERVICE DEPARTMENT

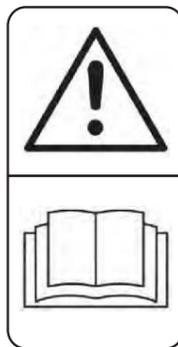
Fold along dotted line



M2401010

English

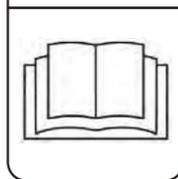
- Read the operating instructions before you use the machine!
- Keep third parties away from the danger zone!
- When you are reading the instructions for use, Please unfold the front and back pages.



General hazard safety alert



Beware of thrown or flying objects to bystanders.



Read Operator's manual



Keep bystanders away from the machine.



Beware of sharp blades



Remove spark plug before maintenance



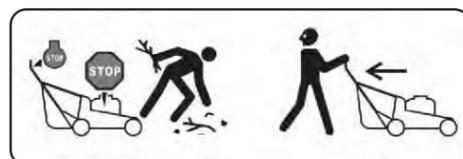
Caution - Do not touch rotating cutting means



Never operate the lawn mower with discharge chute open



Do not mow excessively steep slopes, mow across the face of slopes, never up and down



Never pick up or carry a lawnmower while the engine is running, Use extreme caution when reversing or pulling the lawnmower towards you.



Do not use this machine on slopes greater than 15°



Keep hands and feet away.



Wear eye and ear protection.

Dear Owner:

Thank you for purchasing this Commercial Mower.

Your new mower allows you to mow much faster than the usual walk-behind mower because of its wide 30" cut. Three forward speeds allow precise mowing control. The 90L large grass catcher can collect more grass chips and the cutting height can be adjusted.

There is no such better walk-behind mower that is available for large lawns over 5000m2.

Please carefully read this Owner's Manual which tells you how to safely and easily assemble, operate and maintain your machine.

Be sure that you and any other user carefully follow the recommended safety practices at all times. Failure to do so could result in personal injury or property damage.

If you have any questions regarding the operation or maintenance of this machine, or desire information not found in this Owner's Manual, contact your local WEIBANG Dealer. If you need help locating a dealer, please contact the WEIBANG Customer Support Department.

Safety Alert Symbol

This is a safety alert symbol. It is used in this Owner's manual to alert you to potential hazards. Whenever you see this symbol, read and obey the safety message that follows it. Failure to obey the safety message could result in personal injury or property damage.

WARNING

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

Owner's Record
Please write the Model Number and Serial Number of your machine in the user manual spaces provided. Numbers are printed on a name plate that is attached to the side of the mower deck.

YOU SHOULD RECORD BOTH SERIAL NUMBER AND DATE OF PURCHASE AND KEEP IN A SAFE PLACE FOR FUTURE REFERENCE.

MODEL NUMBER: _____

SERIAL NUMBER: _____

DEALER NAME: _____

DEALER ADDRESS: _____

DEALER PHONE: _____

DATE PURCHASED: _____

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SAFETY REGULATIONS

I. General Operation

● Before starting to use this machine, read, understand and follow all instructions that are provided in this manual. Be thoroughly familiar with the controls and the proper use of the machine before starting operations.



WARNING: Do not put your hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.

● This machine may only be operated by responsible persons, who are familiar with the operating instructions. Never allow children or people unfamiliar with these instructions to use the lawnmower. Local regulations can restrict the age of the operator.

● To prevent injury, be sure that there are no persons in the immediate area where you are mowing. If any person enters this area, stop the machine by releasing the drive control bar. Never mow while people, especially children, or pets are nearby.

● Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.



CAUTION: Do not operate the mower when barefoot or while wearing open sandals. Always robust footwear when mowing.

● While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.

● Thoroughly inspect the area where the equipment is to be used and remove all such objects as rocks, toys, wire, bones, sticks and any other items, which can be thrown by the machine through the discharge opening.

● Do not pull the mower backwards, unless this is absolutely necessary. Always look down and behind you, before and while moving backwards. Use extreme caution when reversing or pulling the lawnmower towards you.

● Before operating the mower, make sure that all protective screens, the grass catcher and other protective devices are properly installed. Never operate the lawnmower with defective guards, or without safety devices, for example deflectors and/or grass catchers in place.

● Observe the instructions of the manufacturer, for proper operation and installation of accessories. Only those accessories that have been approved by the manufacturer may be used.

● Make sure that the blade(s) of the mower is (are)

not rotating, before crossing gravel drives, walkways or roads.

● Stop the engine (motor) and wait until the blade comes to a complete stop, before removing the grass catcher.

● Mowing should only be done during daylight or under good artificial lighting.

● Do not operate the machine while under the influence of alcohol or drugs.

● Never operate the mower in wet grass, where feasible. Always be sure of your footing: Keep a firm hold on the handle and walk; never run.

● Before starting the engine (motor), disengage all blade and self-propelling mechanism or drive clutch on mowers so equipped.

● If the mower should start to vibrate abnormally, stop the engine (motor) and check immediately for the cause. Vibration is generally a warning of trouble.

● Keep hands and feet away from the enclosure.

● Worn parts should be referred to our repair shop to be replaced. If necessary, contact the service specified address.

● Before using the machine, inspect the machine by visual to determine whether the cutting, fastening bolts and the entire mower deck worn or damaged. To avoid an imbalance may be, replace worn out or damaged cutting attachment bolts sets.

II. SLOPE OPERATION

● Slopes are a major factor related to slip and fall accidents, which can result in severe injury. All slopes require extra caution. If you feel uneasy on a slope, do not mow it.

DO:

● Mow across the face of slopes: never up and down. Exercise extreme caution when changing direction on slopes.

● Remove obstacles such as rocks, tree limbs, etc.

● Watch for holes, ruts, or bumps. Tall grass can hide obstacles.

DO NOT:

● Do not trim near drop-offs, ditches or embankments. The operator could lose footing or balance.

● Do not trim excessively steep slopes.

● Do not mow on wet grass. Reduced footing could cause slipping.

III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. Never assume that children will remain where you last saw them.

● Keep children out of the trimming area and under the watchful care of another responsible adult.

● Be alert and turn machine off if children enter the area.

● Before and while walking backwards, look behind and down for small children.

● Never allow children to operate the machine.

● Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. GENERAL INSTRUCTIONS FOR WORKING WITH YOUR LAWMOWER

● **WARNING**-petrol is highly flammable. Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.

- Store fuel in containers specially designed for this purpose; Use only an approved fuel container.

- Refuel outdoors only and do not smoke while refueling; Never refuel the machine indoors.

- Never store the machine or fuel container near an open flame, such as a water heater

- Add fuel before starting the engine. Never remove the cap of the fuel tank or add petrol while the engine is running or when the engine is hot; Allow the engine to cool before refuelling.

- If petrol is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapors have dissipated.

- Replace all fuel tanks and container caps securely;

- Do not smoke in the neighbourhood of the mower.

● Replace faulty silencers

● Clean up any oil or fuel spills.

● Do not start the engine when standing in front of the discharge chute.

● Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times.

● Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect; Walk never run.

● Always be sure of your footing on slopes.

● Do not change the engine governor settings or over-speed the engine;

● Never make adjustments or repairs with the engine (motor) running. Disconnect the spark plug wire, and keep the wire away from the plug to prevent accidental starting.

● Check regularly that nuts and bolts, especially blade attachment bolts, are fastened tightly and keep the equipment in a good condition.

● Never tamper with safety devices. Check their proper operation regularly.

● Make sure that grass, leaves or other debris does not collect in the mower; check regularly and remove such residues to blocking.

● Stop and inspect your lawnmower if you strike any object. Repair, if necessary, before restarting.

● Never attempt to make wheel height adjustments while the engine (motor) is running.

● Grass catcher components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be ejected.

Frequently check these components and, if necessary, replace damaged components with parts recommended by the manufacturer.

● Mower blades are sharp and can cause injuries. Wrap the blade(s) or wear gloves when handling them, and use extra caution during blade maintenance.

● Be especially careful in case you reverse the mower or going to use the machine.

● Stop the blade(s) if the lawnmower has to be tilted for transportation when crossing surfaces other than grass, and when transporting the lawnmower to and from the area to be mowed.

● Start the engine or switch on the motor carefully according to instructions and with feet well away from the blades.

● Do not tilt the lawnmower when starting the engine or switching on the motor, except if the lawnmower has to be tilted for starting. In this case, do not tilt it more than absolutely necessary and lift only the part which is away from the operator.

● Never pick up or carry a lawnmower while the engine is running.

● Stop the engine and disconnect the spark plug wire.

- Before clearing blockages or unclogging chute.

- before checking, cleaning or working on the lawnmower.

- after striking a foreign object. Inspect the lawnmower for damage and make repairs before re-starting and operating the lawnmower;

● if lawnmower starts to vibrate abnormally (check immediately).

● Stop the engine:

- whenever you leave the lawnmower.

- before re-fuelling.

● Reduce the throttle setting during engine shut down and, if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of mowing;

● Allow the engine to cool before storing in any enclosure.

● Never store the equipment with petrol in the tank inside a building where fumes can reach an open flame or spark. To reduce the fire hazard, keep the engine, silencer, battery compartment and petrol storage area free of grass, leaves, or excessive grease.

● Check the grass catcher frequently for wear or deterioration

● If the fuel tank has to be drained, this should be done outdoors.



WARNING: Engine exhaust gases and some of its constituents, as well as certain other vehicle components contain or emit chemicals, which are known to cause cancer, possible birth defects or harm to the reproductive organs.

PRODUCT SPECIFICATIONS

MODEL	WB778SLC V-3in1
Cutting Width (mm)	769
Motor	WEIBANG CV300-7
Nominal power	5.5kW
Moving type	Self-propelled
Cutting Height (mm)	17~129
Cutting height adjustment	15
Drive speed	3 gears
Grass bag capacity (L)	90
Blade speed Max.	Blade 1: 3319/min, Blade 2: 5966/min
Net Weight	104kg
Sound pressure level (L _{PA}) K=3dB(A)	96.7 dB(A)
Sound power level (L _{WA}) K=3dB(A)	110.3 dB(A)
Vibration K=1.5m/s ²	4.36m/s ²
Blade type	1382000332 (1382000132) 1382000432 (1382000232)

Note: The commercial mowers' net weight is depending on the different model of engine.

These specifications are provided as a reference, these are familiarized with the mower. We reserve the right to make technical changes and other without advance notification. It is possible that some details in this manual does not coincide completely with your machine.

CONGRATULATIONS on your purchase of a new lawnmower. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact the nearest authorized service center/department. We have competent, well-trained technicians and the proper tools to service or repair this lawnmower.

Please read and retain this manual. The instructions will enable you to assemble and maintain your lawnmower properly. Always observe the "SAFETY REGULATIONS"

PROPER USE

The gasoline lawnmower is for private use in the home and garden suitable hobby. The mower may only be used for the maintenance of grass or lawns in the home and garden hobby can be used. Any application that is not listed in this guide is prohibited. The above use and safety instructions must be strictly adhered to. The manufacturer assumes no liability for any damage caused by improper operation, improper use, misuse, unauthorized repairs or alterations performed.

Close the side discharge door. The grass will be cut multiple times under the cutting deck until small enough to be left on the lawn. The mulched grass will soon decay, becoming fertilizer for the promotion of better grass growth.

CUSTOMER RESPONSIBILITIES

- Read and observe the safety regulations contained in this manual.
- Follow a regular schedule for maintaining, caring for and using your lawnmower.
- Follow the instructions in the "Customer responsibilities" and "Storage" sections of this owner's manual.
- Remember that the operator is responsible for accidents with other persons or their property.



Residual risks

Even when the power tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the power tool's construction and design:

1. Damage to lungs if an effective dust mask is not worn.
2. Damage to hearing if effective hearing protection is not worn.
3. Damages to health resulting from vibration emission if the power tool is being used over longer period of time or not adequately managed and properly maintained.

ASSEMBLY

Read these instructions and this manual in its entirety before you attempt to assemble or operate your new lawn mower.

IMPORTANT: THIS LAWN MOWER IS SHIPPED WITHOUT OIL OR GASOLINE IN THE ENGINE. Your new lawn mower has been assembled at the factory with the exception of those parts left unassembled for shipping purposes. All parts such as nuts, washers, bolts, etc., necessary to complete the assembly have been placed in the parts bag. To ensure safe and proper operation of your lawn mower, All parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to ensure proper tightness.

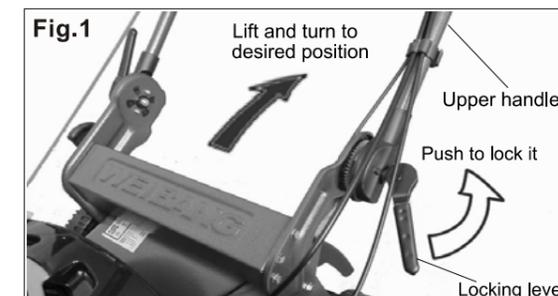
I. TO REMOVE MOWER FROM CARTON

- Remove loose parts included with mower.
- Cut down two end corners of carton and lay end panel down flat.
- Remove all packing materials except padding between upper and lower handle and padding holding operator presence control bar to upper handle.
- Roll lawn mower out of carton and check carton thoroughly for additional loose parts.

II. HOW TO SET UP YOUR MOWER

IMPORTANT: UNFOLD HANDLE CAREFULLY SO AS NOT TO PINCH OR DAMAGE CONTROL CABLES.

- Lift and unfold upper handle to desired height and pull two levers on both sides to lock upper handle. Refer to Service and Adjustments section.



CAUTION: Unfold the handle carefully to avoid pinching and damaging the control cables.

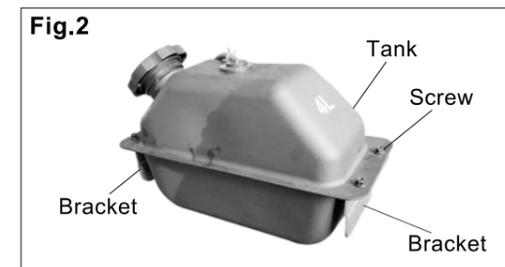
- Remove any packing material from around control bar.
- Your handles may be adjusted for your mowing comfort. Refer to Service and Adjustments section of this manual.

CAUTION: Wear protective gloves during operation of setting up your mower.

III. ASSEMBLE FUEL TANK

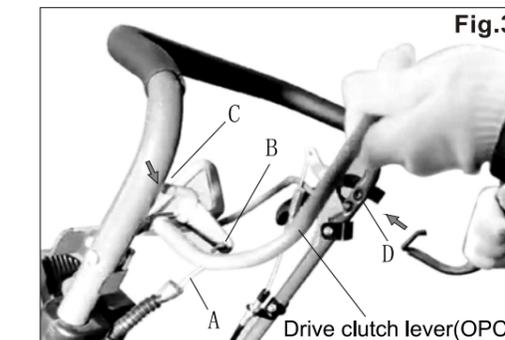
- Remove packing material, and then turn the empty fuel tank and set it on the tank bracket.

- Reassemble the tank to the bracket with screws preassembled on the top of bracket. Fasten all screws.



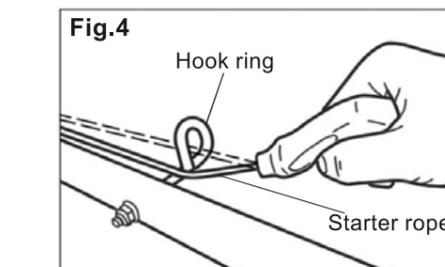
IV. ASSEMBLE DRIVE CLUTCH LEVER

- Hook the S-type head of unconnected drive clutch's cable A into the hole B of the Drive clutch lever.
- Insert both ends of the Drive clutch lever in turns into the corresponding holes C and D as arrows indicated. (Hole C and D on the inside of the upper handle).



V. ASSEMBLE ENGINE STARTER KNOB

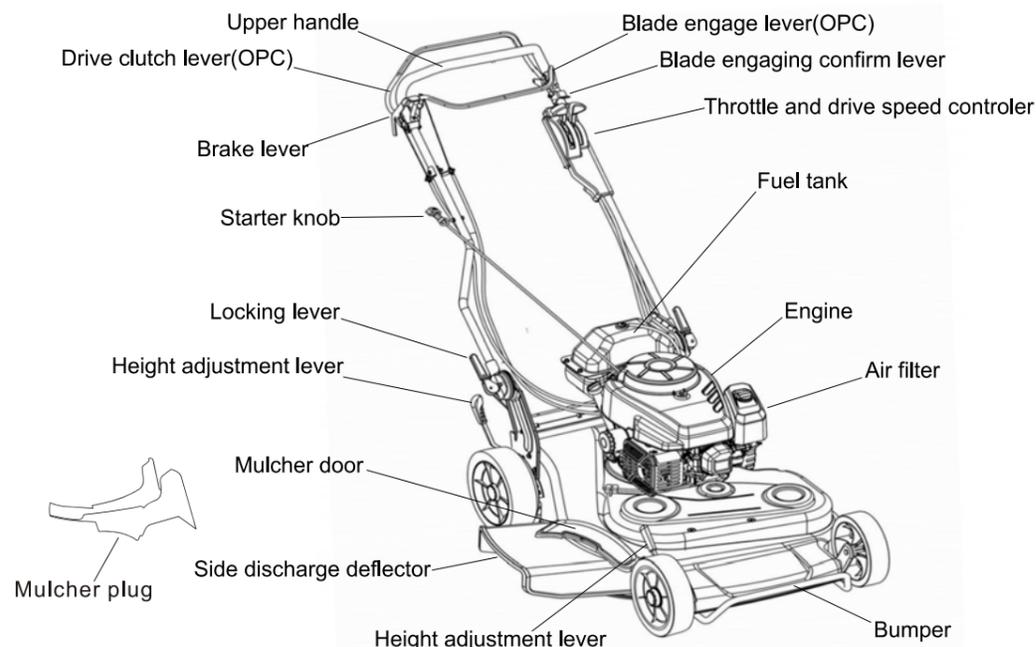
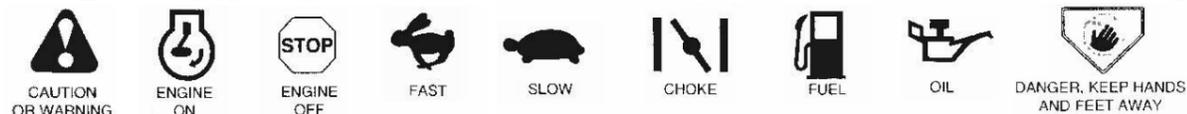
- Press down engine brake handle by left hand, and meanwhile pull the knob of starter rope back to the hook ring on upper handle, assemble. The rope into the hook ring through the opening of hook ring.
- Always keep starter rope in hook ring during all mowing work.



WARNING: The safety position of starting engine is at the back of upper handle. Users must keep the rope always in the middle of the hook ring during starting engine and mowing work. It is danger to starting engine away from the safety position, which will lead to the risk of feet hurting.

OPERATION

These symbols may appear on your lawn mower or in literature supplied with the product. Learn and understand their meaning.



DRIVE CLUTCH LEVER- used to engage power propelled forward motion lawn mower.

THROTTLE CONTROL- used for starting the engine and allows you to select either fast or slow engine speed.

DRIVE SPEED CONTROL- used for shifting among three gears for desired walking speed.

STARTER KNOB- used for starting the engine.

MULCHER PLUG- located at the discharge opening, must be removed when converting to bagging operation.

MULCHER DOOR- allows conversion to discharge or bagging operation.

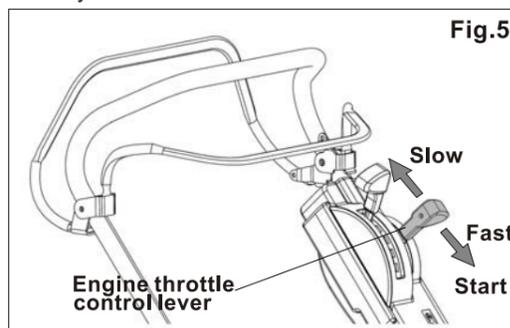
BRAKE LEVER- brake the mower during walking or parking period.

BLADE ENGAGING CONFIRM LEVER- must be pressed down to the handle to lift for blade engaging.

WARNING: The operation of any lawn mower can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye Shields while operating your lawn mower or performing any adjustments or repairs. We recommend wide vision safety mask over spectacles or standard safety glasses.

HOW TO USE YOUR MOWER ENGINE SPEED

A throttle located on the side of the upper handle controls the engine speed. Fast position is for normal cutting, trimming and better grass bagging. Slow position is for light cutting, trimming and fuel economy.



ENGINE CONTROL ZONE

● Your lawn mower is equipped with 2 operator presence control levers which requires the operator to be positioned behind the mower's upper handle to operate the machine.

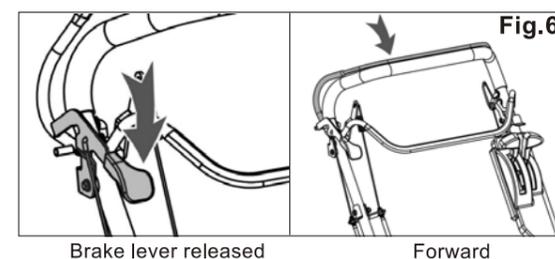
TO OPERATE DRIVE SYSTEM(See Fig.6)

● To start forward motion, depress the brake lever

firstly to release Park brake, and then lift drive clutch lever up to handle.

● To stop forward motion, release drive clutch lever.

IMPORTANT: ALWAYS KEEP DRIVE CONTROL FULLY ENGAGED AGAINST HANDLE WHEN IN USE.

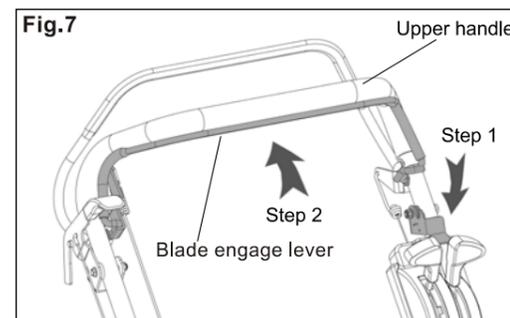


ENGAGE THE BLADE (See Fig.7)

1. For safety, the blade-clutch-lever can not be engaged directly after releasing. Depress the confirm lever to upper handle with left hand to release the blade engage lever.

2. Lift the blade engage lever to upper handlebar completely to engage blade.

3. Release the blade-engage-lever completely to disengage and stop blades.



ADJUSTING THE DRIVE SPEED (See Fig.8)

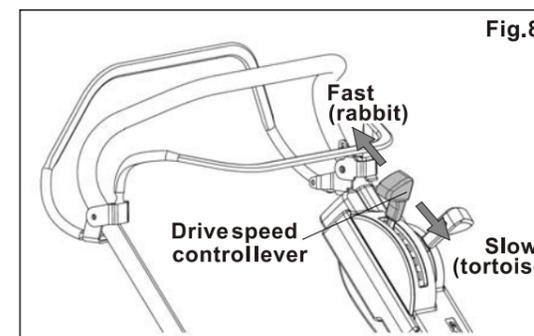
NOTE: The speed may only be adjusted when the engine is running in order to avoid damage!

-The driving speed can be continuously adjusted by using the adjustment lever mounted on the upper hand.

-First press the lever slightly downwards and adjust to the desired speed. The lever automatically clicks back into the nearest new position.

-Position "rabbit" =fast(max.speed)

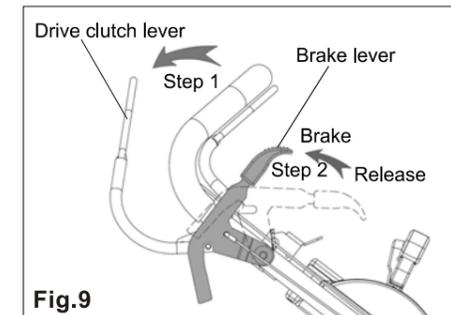
-Position "tortoise" =slow (min.speed)



OPERATING THE BRAKE (See Fig.9)

● To brake the unit during walking forward, release the drive clutch lever firstly and then pull the brake lever backward.

● To brake the unit during parking, pull the brake lever backward to the end of stroke after the unit stopped completely.



ADJUSTING THE CUTTING HEIGHT (See Fig.10)

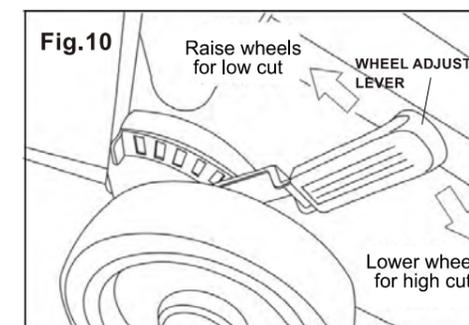
● Never adjust the cutting height with motor running.

● The mower is adjusted to one cutting height upon delivery.

● The mower has two levers on right side to adjust the front wheel and rear wheel individually.

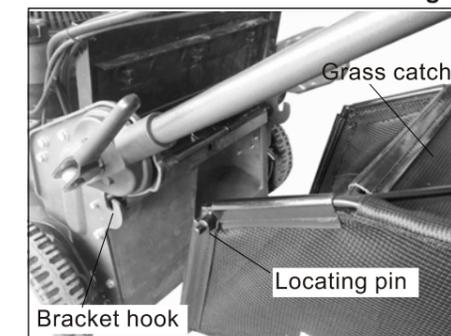
● You can set the cutting height to the desired height to fit different terrain. Pull the lever out from the catch, move to the desired position and let it fall back into the catch. Shift two levers forward for high cut and backward for low cut.

WARNING: The mower can only be used on level lawns if the lowest cutting height is being used.



TO ATTACH GRASS CATCHER

1. Lift the rear door of the lawn mower, and then place the locating pins of grass catcher into hooks on both sides bracket.



2. The grass catcher is secured to the lawn mower housing when the rear door is lowered onto the grass catcher frame.

CAUTION: Do not run your lawn mower without clipping deflector or approved grass catcher in place. Never attempt to operate the mower with rear door removed or propped open.

TO EMPTY GRASS CATCHER

1. Lift up on grass catcher using the frame handle.
2. Remove grass catcher with clippings from under lawn mower handle.
3. Empty clippings from bag using both frame handle and bag handle.

NOTE: Do not drag the bag when emptying; it will cause unnecessary wear.

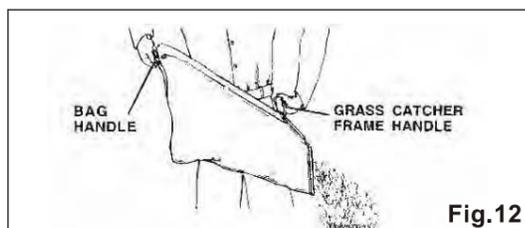


Fig.12

CAUTION: During operation of emptying clippings from grass catcher, please wear protective gloves to prevent environmental influence on your skin.

TO CONVERT MOWER

Your lawn mower was shipped ready to be used as a mulcher. To convert to bagging or discharging:

REAR BAGGING

- Open rear door and remove mulcher plug. Store mulcher plug in a safe place.
- You can now install the grass catcher.
- To convert to mulching or discharging operation, install mulcher plug into rear discharge opening of mower.

SIDE DISCHARGING

- Mulcher plug must be installed into rear discharge opening of mower.
- Press down lever A to unlock and open mulcher door and install discharge deflector under the door as shown.
- Mower is now ready for discharging operation.
- To convert to mulching or bagging operation, discharge deflector must be removed and discharge guard must be closed.

MULCHING

- Mulcher plug must be installed into rear discharge opening of mower.
- To convert to mulching, discharge deflector must be removed and discharge guard must be closed.
- Mower is now ready for rear discharging operation.

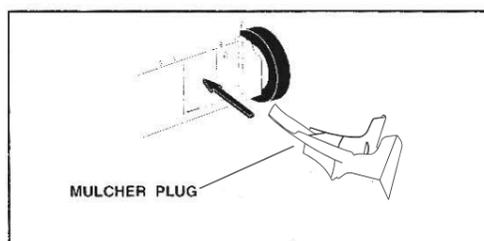
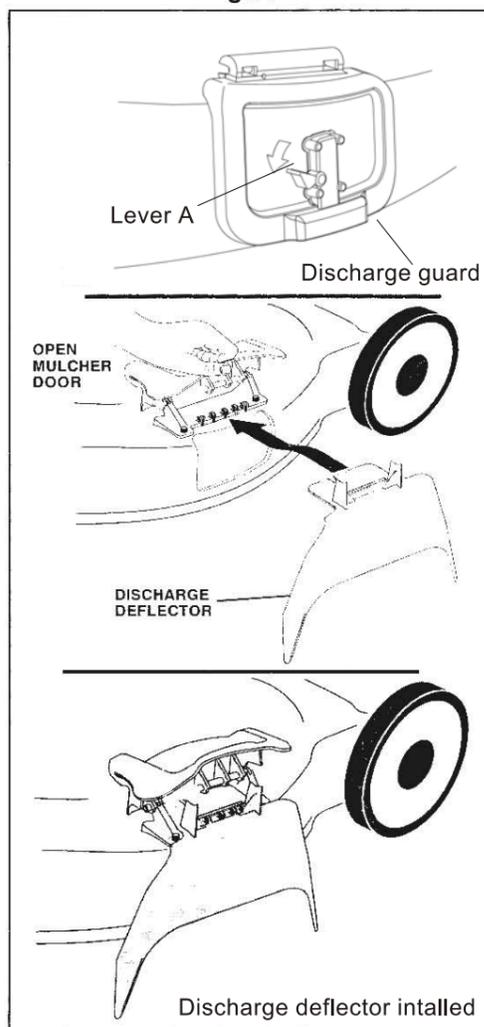


Fig.13



CAUTION: Do not run your lawn mower without rear door closed or approved grass catcher in place. Never attempt to operate the lawn mower with the rear door removed or propped open.

BEFORE STARTING ENGINE

ADD OIL

Your lawnmower is shipped without oil in the engine. Engine holds approximately 0.6L refer to engine manufacturers specifications in engine hand book. For type and grade of oil to use, see "ENGINE" in Customer Responsibilities section of this manual.

1. Be sure lawnmower is level and area around oil fill is clean.

2. Remove engine oil cap and fill to the full line on the dipstick. Pour oil slowly. Do not over fill.

NOTE: Allow oil to settle down into engine for accurate reading. To read proper level, tighten engine oil cap, then remove it to read the dipstick.

3. Reinstall engine oil cap and tighten.

- Check oil level before each use. Add oil if needed. Fill to full line on dipstick.

- Change the oil after every 25 hours of operation or each season. You may need to change the oil more often under dusty, dirty conditions.

ADD GASOLINE

NOTE: Before filling fuel tank, remove and discard the debris plug that is inside the tank.

Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octants. Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

WARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See storage instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

CAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

TO START ENGINE

NOTE: Due to protective coatings on the engine, a small amount of smoke may be present during the initial use of the product and should be considered normal.

1. To start a cold engine, push primer three times before trying to start. Use a firm push. This step is not usually necessary when starting an engine, which has already run for a few minutes.

2. Move throttle control lever to fast position.

3. Hold operate presence control bar down to the handle and pull starter handle quickly. Do not allow starter rope to snap back.



CAUTION: If the engine fails to start in 30 second after repeated starting operation by pulling the starter knob, please stop your operation and check the causes. See trouble shooting.

TO STOP ENGINE

- To stop engine, release operator presence control Bar.

NOTE: In cooler weather it may be necessary to repeat priming steps. In warmer weather over priming may cause flooding and engine will not start. If you do flood engine, wait a few minutes before attempting to start and do not repeat priming steps.

MOWING TIPS

WARNING

To avoid injury or property damage:

- Before mowing, thoroughly inspect area where mower is to be used and remove all stones, sticks, wires, bones, nails and other foreign objects.
- Disengage mower blades before crossing gravel drives, roads, of sidewalks to prevent blades from throwing stones or other hazardous objects.

Mow When Lawn Is Dry

For best results, avoid cutting grass when it is wet. Wet grass tends to form clumps which interfere with the cutting action. The best time to mow is in the late afternoon or early evening when the grass is usually dry.

Cut Top 1/3 of Grass

Cutting more than 1/3 of grass length may cause the grass to become excessively dry. In tall grass, it may be necessary to mow at a higher setting and then mow again at the desired height.

NOTE: The cutting height is critical to achieving a well-groomed lawn. You should experiment with various settings to find that "just right" cutting height.

- Under certain conditions, such as very tall grass, it may be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of grass clippings. It may also be necessary to reduce ground speed and /or run the mower over the area a second time.

- For extremely heavy cutting, reduce the width of cut by overlapping previously cut path and mow slowly.

- For better grass bagging and most cutting conditions, the engine speed should be set in the fast position.

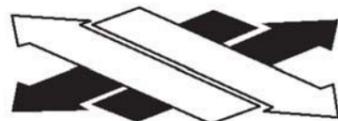
- Pores in cloth grass catchers can become filled with dirt and dust with use and catchers will collect less grass. To prevent this, regularly hose catcher off with water and let dry before using.

- Keep top of engine around starter clear and clean of grass clippings and chaff. This will help engine air flow and extend engine life.



IMPORTANT: FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS AND TRASH. SEE "CLEANING" IN CUSTOMER RESPONSIBILITIES SECTION OF THIS MANUAL.

Vary Cutting Pattern



Vary the cutting pattern from week to week to help prevent matting of the grass. One week, mow from north to south, the next week mow from east to west. Overlap several inches when mowing to obtain an even appearance.

Mowing on Slopes



Do not mow excessively steep slopes (see WARNING statement that follows). Slow down and exercise extreme caution when changing direction on slopes. Before mowing on slopes, check the engine oil level and make sure that the level is at the FULL mark. Maintaining a FULL oil level is particularly important when operating on slopes as oil can be drain away from vital engine parts.

WARNING

To avoid injury or properly damage:

- Maximum safe operating angle is 15°
- Exceeding maximum safe operating angle may cause tipping or loss of footing.
- Do not mow wet slopes.
- Mow across slopes, not up and down.
- Exercise extreme caution when changing direction on slopes.

MULCHING MOWING TIPS

- The special mulching blade will re-cut the grass clippings many times and reduce them in size so that as they fall onto the lawn they will disperse into the grass and not be noticed. Also, the mulched grass will biodegrade quickly to provide nutrients for the lawn. Always mulch with your highest engine (blade) speed, as this will provide the best re-cutting action of the blades.
- Avoid cutting your lawn when it is wet. Wet grass tends to form clumps and interferes with the mulching action. The best time to mow your lawn is the early afternoon. At this time the grass has dried and the newly cut area will not be exposed to the direct sun.

● For best results, adjust the lawn mower cutting height so that the lawn mower cuts off only the top one-third of the grass blades. If the lawn is overgrown it will be necessary to raise the height of cut to reduce pushing effort and to keep from overloading the engine and leaving clumps of mulched grass. For extremely heavy mulching, reduce your width of cut by overlapping previously cut path and mow slowly.

- Certain types of grass and grass conditions may require that an area be mulched a second time to completely hide the clippings. When doing a second cut, mow across or perpendicular to the first cut path.
- Change your cutting pattern from week to week. Mow north to south one week then change to east to west the next week. This will help prevent matting and graining of the lawn.

Mulching Leaves

The mower can be used to mow fallen leaves. The leaf particles filter down into the lawn and provide added fertilizer.

The leaves must be dry in order to be mulched. Use a slower ground speed if the leaves are not mulched into fine particles.

If you mulch oak leaves (which add acid to the soil), add lime to the lawn in the spring to reduce the acidity of the soil.

Keep Mower Blades Sharp

For best mower performance, keep the blades sharp. Dull blades will tear, bruise and split the ends of grass. See blade sharpening instructions in Section 5: Maintenance.

Clean Mower Frequently

Clean the underside of the mower deck frequently to remove grass build-up. See mower cleaning instructions in Section: Maintenance.

Precision Trimming

For precision trimming, use the slowest gear and trim the mower along by "feathering" the Wheel Drive Control so that you can manually maneuver the mower.

Mowing Ditches

If you have to mow ditches, stop the engine and adjust the cutting height to its highest setting. Mow in the direction of the ditch. Mow both sides of the ditch first, and then mow the bottom. When mowing ditches, watch out for cans, bottles, or other debris.

BLADE CLUTCH CONTROL TEST

When the Wheel Drive Control is released during operation of the mower, the engine does not stop, but the blades should stop within 5 seconds. The following test provides a visual test of whether the Blade Clutch Control System is functioning. Perform this test before each use of the mower.

WARNING

To avoid personal injury or property damage, make sure that the mower is on grass, and that the test area is clear of foreign objects and bystanders before you begin the Blade Control test. If the Wheel Drive Control or Blade Clutch Control are not adjusted correctly, the blades may continue

to rotate after release of the Blade Clutch lever. If the blades do not stop within 5 seconds of release of the Blade clutch lever, move the Engine Throttle Control to the STOP position, disconnect the spark plug wire, and move the wire away from the spark plug. Do not operate the mower until the Blade Clutch Control System has been repaired.

Failure to do this could result in personal injury or property damage.

1. Park mower on a portion of lawn which has not been recently mowed.
2. Set the cutting height so the mower cuts 1/3 of the grass height.
3. Start the engine.
4. Put the Gear Select Lever in the No. 1 setting.

5. Lift the Wheel Drive clutch lever up against the handlebar grip and pull the Blade Drive Control fully backward to engage blades. and drive the mower for several feet. Then release it.

6. Look at the lawn just mowed. The lawn should be cut up to the point where the Wheel Drive Control was released. This indicates that the Blade engage lever has disengaged the blade and stopped it.

7. If the cutting means does not stopped in 5 seconds **Immediately stop the engine, disconnect the spark plug wire, and move the wire away from the spark plug.**

8. Do not use the mower until the Blade Clutch control System has been inspected, adjusted or repaired by an authorized dealer.

CUSTOMER RESPONSIBILITIES, Maintenance

Carefully read this Section on mower and engine maintenance and service. Performing the required maintenance according to schedule will ensure the proper performance and long life of your machine.

WARNING

Before inspecting, cleaning or servicing the machine, shut off engine, make sure that all moving parts have come to a complete stop, disconnect spark plug wire and move wire away from spark plug. Remove ignition key on electric

start models.

Failure to follow these instructions can result in personal injury or property damage.

NOTE: All references to left, right, front and rear of the machine are determined by standing behind the handlebars and facing the direction of forward travel.

IMPORTANT: REFER TO MINTENANCE CHART IN THIS SECTION FOR A LISTING OF REGULARLY SCHEDULED MAINTENANCE PROCEDURES.

MAINTENANCE SCHEDULE

FILL IN DATES AS YOU COMPLETE REGULAR SERVICE		BEFORE EACH USE	AFTER EACH USE	EVERY 10 HOURS	EVERY 25 HOURS OR EVERY SEASON	BEFORE STORAGE	SERVICE DATES
M O W E R	Check for loose fasteners	✓				✓	
	Clean/Inspect Grass Catcher (If Equipped)	✓	✓			✓	
	Clean Lawnmower		✓			✓	
	Clean Under Drive Cover (Power-Propelled Mowers)			✓		✓	
	Check/Sharpen/Replace Blade				✓3		
	Lubrication Chart				✓	✓	
E N G I N E	Change Engine Oil				✓		
	Check Engine Oil Level	✓1, 2					
	Clean Air Filter			✓2			
	Inspect Muffler				✓		
	Clean or replace Spark Plug				✓		
	Replace Air Filter Paper Cartridge				✓		

1. Change more often when operating under a heavy load or in high ambient temperatures.
2. Service more often when operating in dirty or dusty conditions.
3. Replace blades more often when mowing in sandy soil.

GENERAL RECOMMENDATIONS

The warranty on this lawn mower does not cover items that have been subjected to operate or abuse or negligence. To receive full value from the warranty, operator must maintain mower as instructed in this manual. Some adjustments will need to be made periodically to properly maintain your unit. All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

Once a year, replace the spark plug, clean or replace air filter element and check blade for wear. A new spark plug and clean/new air filter element assures proper air-fuel mixture and helps your engine run better and last longer.

Follow the maintenance schedule in this manual.



WARNING: MAKE SURE DOING ALL OPERATIONS WHEN THE ENGINE STOPPED.

BEFORE EACH USE

1. Check engine oil level.
2. Check for loose fasteners.

LUBRICATION

Keep unit well lubricated.

LAWN MOWER

Always observe safety rules when performing any maintenance.

TIRE

- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

BLADE CARE

For best results, mower blade must be kept sharp. Replace bent or damaged blades.

WARNING

Mower blades are sharp.

- **When working near blades, wear heavy leather gloves or wrap blades in thick rags to protect yourself from the sharp edges.**
- **Wear eye protection when sharpening blades.** Examine mower blades before operation. For efficient mowing, Cutting edges of blades should always be kept sharp. Check for blade wear or

damage. See Figure 5-16. Replace a severely worn or damaged blade with a new one.

TO INSPECT BLADES

1. Stop engine and wait for all parts to stop moving, and disconnect spark plug wire.

2. Lifting the mower backward for service:

- Loosen 2 lock lever A on both sides of handle bar.
- Rotate upper handle to the front of mower and set it to storage position. and re-tighten both lock levers. following instructions "TO ADJUST HANDLE" in the Section "SERVICE AND ADJUSTMENTS".
- Open the rear discharge cover and turn the whole unit backward and make it stand on the ground via the unit's tail.

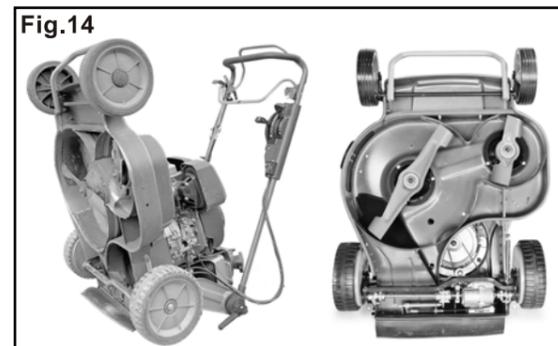


Fig.14

TO REMOVE BLADE

1. Use a woodblock between blade and mower housing to prevent blade from turning when removing blade bolt.

NOTE: Protect your hands with gloves and/or wrap blade with heavy cloth.

2. Remove blade bolt by turning counter-clockwise.
3. Remove blade and attaching hardware.

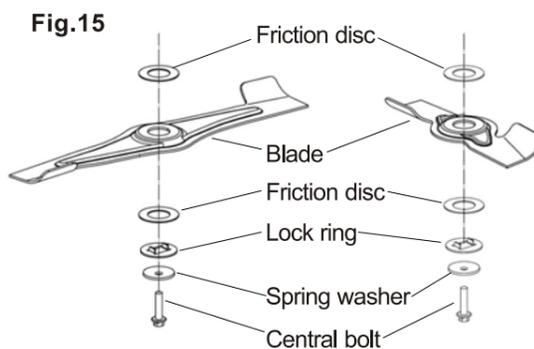


Fig.15

TO REPLACE BLADE

1. Position the blade adapter on the engine cranks haft. Be sure key in adapter and crankshaft keyway are aligned.
2. Be sure the trailing edge of blade (opposite sharp edge) is up toward the engine.
3. Install the blade bolt with the Belleville spring into blade adapter and crankshaft.
4. Use block of wood between blade and lawn mower housing and tighten the blade bolts, turning clockwise to a torque value of 35ft. lbs. (47Nm).



IMPORTANT: BLADE BOLT IS GRADE 10.9 HEAT TREATED.

TO SHARPEN BLADE

NOTE: We do not recommend sharpening blade but if you do, be sure the blade is balanced.

Care should be taken to keep the blade balanced. An unbalanced blade will cause eventual damage to lawn mower or engine.

- Grind or file the same amount from each blade end to maintain blade balance. An unbalanced mower blade produces excessive vibration and may damage spindle bearings. Sharpen cutting edge straight across, parallel to rear edge of mower blade. See Figure 5-16. After sharpening, blade balance must be checked.

Tip: It is recommended extremely to use new blades directly instead of old ones.

IMPORTANT: PROFESSIONAL SHARPENING SERVICES OR YOUR AUTHORIZED DEALER IS EQUIPPED TO SHARPEN MOWER BLADES SAFELY.

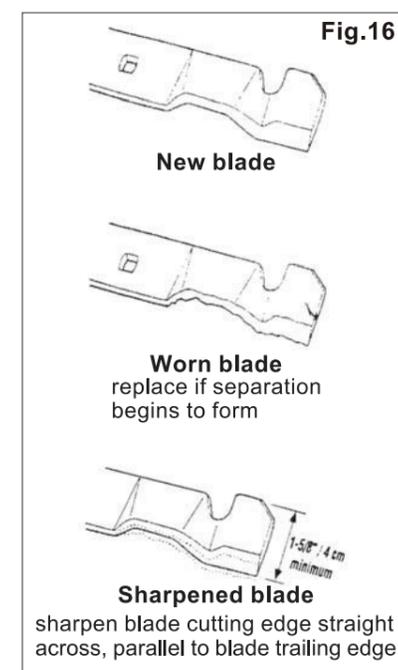
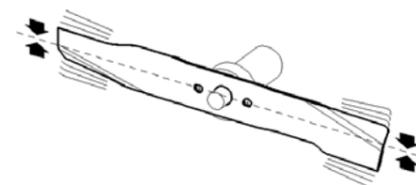


Fig.16

- To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of blade over the head of the nail. If blade is balanced, it should remain in a horizontal position. If either ends of the blade moves downward, sharpen the heavy end until the blade is balanced.



GRASS CATCHER

- The grass catcher may be hosed with water, but must be dry when used.
- Check your grass catcher often for damage or deterioration. Through normal use it will wear. If catcher needs replacing, replace only with a manufacturer approved replacement catcher. Give the lawn mower model number when ordering.

DRIVE WHEELS

Check rear drive wheels each time you mow to be sure they move freely. The wheels not turning freely means trash, grass cuttings, etc. may be inside the drive wheel and dust cover area and must be cleaned out to free drive wheels. If necessary to clean the drive wheels, check both rear wheels.

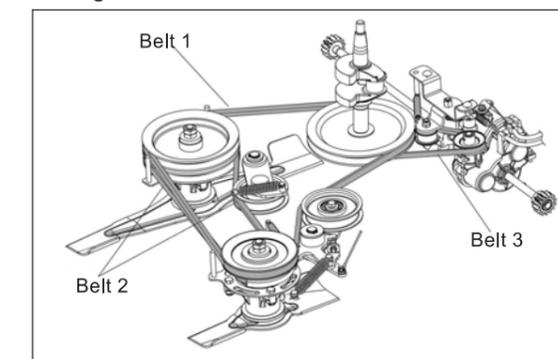
1. Remove hubcaps, bolt, spring lock washer and washer.
2. Remove wheels from wheel adjuster axles.
3. Remove any trash or grass cutting from inside the dust cover, pinion and/or drive wheel gear teeth.

NOTE: The pinion gear, on both sides of the mower, are the same, however, they must be installed correctly. If installed incorrectly, the drive system will not work.

4. Place wheels back on adjuster axles.
5. Replace spring lock washer, washer, bolt and hub caps.

DRIVE BELT

If the belts must be replaced, please contact your service agent or local dealer for details.



ENGINE SERVICE

Routine engine service is described below. For more complete engine service information, refer to the engine manual provided with your machine. For complete engine service, contact your authorized dealer.

ENGINE OIL

OIL LEVEL: With mower on level ground the engine oil level must be between the "ADD" and "FULL" marks on the dipstick at all times. Check before each use and every 5 operating hours.

OIL CHANGE: On a new engine, change oil after first 2 hours of use, then change oil regularly as specified on the Maintenance Chart. Refer to Engine Owner's Manual for oil capacity.

OIL TYPE: Use clean, high quality detergent oil having an A.P.I. service classification of SE, SF or SG. Use no special additives with oil. Refer to the Engine Owner's Manual for recommended SAE viscosity grades that match the starting temperature anticipated before the next oil change.

Checking Oil level:

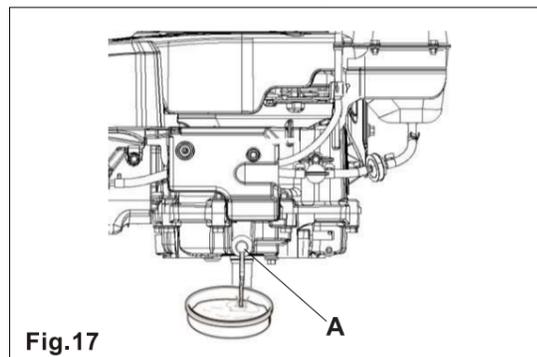
1. Park the machine on level ground.
2. **Stop engine, wait for parts to stop moving, and disconnect spark plug wire.**
3. Clean the area around dipstick to prevent dirt from entering oil fill hole.
4. Remove the dipstick. Oil level must be between "ADD" and "FULL" marks. Do not exceed "FULL" mark on dipstick.
5. To add oil, pour slowly into dipstick opening. While adding, check oil level frequently by securely replacing dipstick and removing to read oil level. Wipe dipstick clean each time oil level is checked.
6. After filling to "FULL" mark, securely replace dipstick.

TO CHANGE ENGINE OIL

NOTE: Before tipping lawn mower to drain oil, drain fuel tank by running engine until fuel tank is empty.

Change oil while engine is still warm from recent operation. Warm oil flows more freely and carries away more impurities.

1. **Stop engine, wait for parts to stop moving, and disconnect spark plug wire.**
2. Remove the dipstick.
3. Loosen the screw plug (A) anti-clockwise with a spanner and remove the plug.

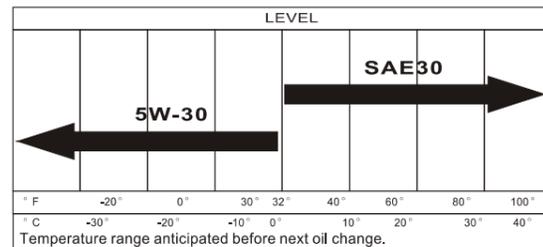


4. Put an appropriate oil collection receptacle below oil drain port. It is suggested to push an oil drain hose (B) onto oil drain port, and route other end of hose to oil collection receptacle when needed.

5. Drain oil completely.
6. Remove drain hose. Replace the screw plug clockwise and screw it with spanner.
7. Refill engine with fresh oil and securely replace dipstick.

CAUTION: Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with spark plug.

LUBRICATION CHART



NOTE: Although multi-viscosity oils (5W30, 10W30 etc) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32° F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil. Change the oil after every 25 hours of operation or at least once a year if the lawn mower is not used for 25 hours in one year. Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Tighten oil plug securely each time you check the oil level.

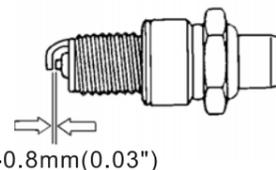
MUFFLER

Inspect and replace corroded muffler as it could create a fire hazard and/or damage.

SPARK PLUG

Inspect the spark plug (Figure 5-3) after every 100 hours of operation. Be sure the gap is set at .030". Do not reuse plug if it is severely worn or damaged.

Fig.18



Best results are obtained with a new plug. See Engine Owner's Manual to determine proper replacement plug. Use of incorrect plug can cause engine damage.

NOTE: Do not clean spark plug in machines which use abrasive grit. Clean spark plug by scraping or wire brushing, or washing with a commercial solvent.

AIR FILTER

Your engine will not run properly and may be damaged by using a dirty air filter. Clean the element after every 25 hours of operation, more often if lawn mower is used in very dusty, dirty conditions.

See the maintenance section of your engine manual.

AIR CLEANER SERVICE

Improper air cleaner maintenance can cause engine damage. Refer to the Engine Owner's Manual for more complete air cleaner service information.

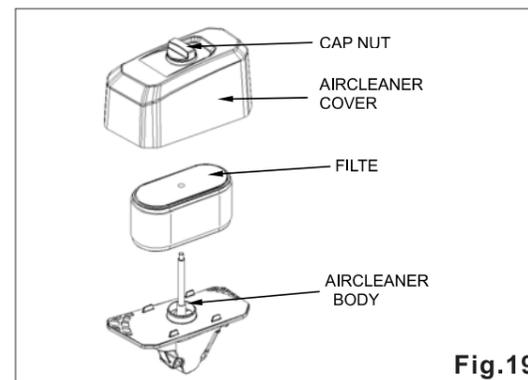
SERVICE SCHEDULE:

Outer foam pre-cleaner-wash every 25 operating hours or every season, whichever occurs first. Inner paper cartridge-clean or replace every

100 operating hours or every season, whichever occurs first.

To Service Air Cleaner (Figure 5-2):

1. **Stop engine and wait for parts to stop moving, and disconnect spark plug wire.**
2. Pull up on air cleaner cover handle, and rotate toward engine.
3. Carefully lift paper cartridge and foam pre-cleaner from blower housing. Separate foam pre-cleaner from paper cartridge.
4. Wash foam pre-cleaner in soapy water. Squeeze dry in a clean cloth.
5. Clean base of air cleaner cartridge area carefully to prevent debris from entering engine. Replace paper cartridge, if necessary.
6. Reassemble paper cartridge and foam pre-cleaner into blower housing. Cartridge must fit securely in base.
7. Align tabs on cover with slots of blower housing and replace cover.
8. Hook handle and close cover.



CARBURETOR

The carburetor is adjusted at the factory. It should not need to be reset. If black exhaust is noted, check the air cleaner first. An over-rich mixture is usually caused by a poorly serviced or clogged air cleaner element, not an improperly adjusted carburetor. If readjustment is necessary, refer to Engine Owner's Manual or contact your local authorized dealer.

IMPORTANT: FOR BEST PERFORMANCE, KEEP MOWER HOUSING FREE OF BUILT-UP GRASS & TRASH. CLEAN THE UNDERSIDE OF YOUR MOWER AFTER EACH USE.

ENGINE CLEANING

- **Stop engine, wait for parts to stop moving, disconnect spark plug wire, and allow engine to cool before inspecting or cleaning engine.**
- Daily or more often, before running engine, remove grass and chaff from recoil finger guard or rotating screen to prevent engine damage caused by overheating.

- Daily or more often, before running engine, clean muffler area (be sure muffler is cool) to remove all grass and combustible debris. If engine is equipped with a spark arrester screen, remove assembly every 50 hours for cleaning and inspection. Replace if damaged.

- Grass or chaff may clog engine's air cooling system, especially after prolonged operation cutting tall, dry grass. See Engine Owner's Manual for instructions on cleaning underneath the engine blower housing.

4. We do not recommend using a garden hose to clean mower unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in shortened engine life.

CLEANING UNDERSIDE OF MOWER DECK

WARNING

Mower blades are sharp.

When working near blade, wear heavy leather gloves or wrap blades in thick rags to protect yourself from the sharp edges.

Frequently check, and clean if necessary, the underside of the mower deck. Grass build-up in this area can affect the cutting performance. Before inspecting or cleaning, make sure that the engine is shut off and the spark plug wire is disconnected from the spark plug.

Inspection/Cleaning of Mower Deck:

1. **Stop engine and wait for all parts to stop moving, and disconnect spark plug wire.**
2. Lifting the mower backward to service position.
3. Use a plastic or metal scraper to remove grass build-up from deck or blades. If needed, spray with a garden hose.

SERVICE AND ADJUSTMENTS

CAUTION: BEFORE YOU CHANGE SETTINGS OR MAINTENANCE TASKS:

1. Release drive clutch lever and blade clutch lever, and then shift the engine throttle lever to "choke" to stop the mower.
2. Make sure the blade and all moving parts have stopped completely.
3. Disconnect cable from the sparkplug and place where it cannot come in contact with plug.
4. Make sure that all the nuts, bolts and screws are tightened and the device in a safe condition.
5. Let the mower to cool before using it in a closed area off.
6. In order to avoid the risk of fire, keep motor housing and ventilation openings free of grass, leaves and oil or fat.
7. Be sure to check the grass Fang's establishment of the wear and tear or loss of functionality.
8. Replace worn out or damaged parts for security reasons.

COMMERCIAL MOWER

TO ADJUST CUTTING HEIGHT

See "TO ADJUST CUTTING HEIGHT" in the Operation section of this manual.

TO ADJUST HANDLE

The handle on your lawn mower has different height positions-adjust to height that suits you.

1. Loosen the 2 lever A on both sides.
2. Rotate upper handle to new catch desired.
3. Re-tighten lever A.

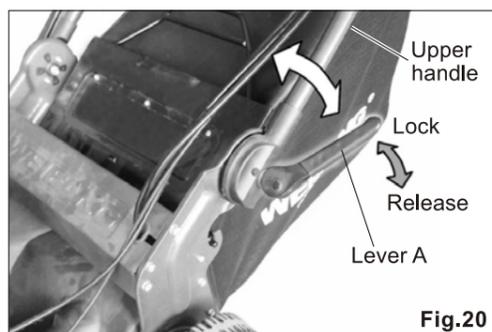


Fig.20

REAR DEFLECTOR

The rear deflector, attached between the rear wheels of your mower, is provided to minimize the possibility that objects will be thrown out of the rear of the mower into the operator's mowing position. If the deflector becomes damaged, it should be replaced.

ENGINE

ENGINE SPEED

Your engine speed has been factory set. Do not attempt to increase engine speed or it may result in personal injury. If you believe that the engine is running too fast or too slow, take your lawn mower to an authorized service center for repair and adjustment.

THROTTLE CONTROL

If it becomes necessary to adjust or replace the throttle control, see the adjustment section of your engine manual.

CARBURETOR

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load.

- The air filter must be assembled to the carburetor when running engine.
- Best carburetor adjustment is obtained when fuel tank is 1/4 full.
- In order for the engine to run, the control bar must be held in the operating position. Therefore, an assistant will be required to hold the control bar in the operating position when making final adjustment to the carburetor.

See the Adjustment section of your engine manual for further instruction.

STORAGE

OFF-SEASON STORAGE

Stop engine, wait for all parts to stop moving, and disconnect spark plug wire before performing any storage procedures. Review the storage safety rules in the Safety Section of this Manual.

If engine will be unused for 30 days or more, prepare it for storage by following the recommended procedures found in the Engine Owner's Manual.

Inspect all parts for damage, breakage, and wear. Tighten or replace fasteners. Contact your local authorized dealer for factory-approved replacement parts.

Clean the exterior of the mower thoroughly and touch up all chipped or scratched surfaces to prevent rust from forming.

WARNING

Never store machine with fuel in the fuel tank inside a building where fumes may reach an open flame or spark, or where ignition sources are present such as hot water and space heaters, furnaces, clothes, dryers, stoves, electric motors, etc.

1. Clean entire lawn mower (See "CLEANING" in the Customer Responsibilities section of this manual) Store in a clean, dry area.
2. Lubricate as shown in the Customer Responsibilities section of this manual.
3. Be sure that all nuts, bolts, screws, and pins are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
4. Touch up all rusted or chipped paint surfaces; sand lightly before painting.

HANDLE

You can fold your lawn mower handle for storage.

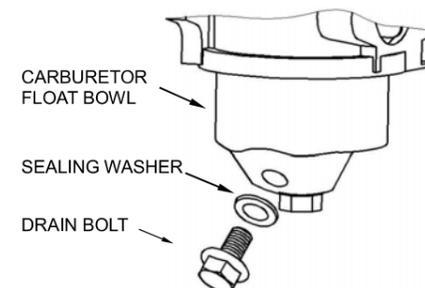
1. Loosen lever A on sides of the upper handle and pivot entire handle assembly forward and allow it to rest on mower. Re-tighten lever A.
2. When setting up your handle from the storage position, loosen lever A on both sides, and rotate handle and set it to new catch desired.

ENGINE

FUEL SYSTEM

IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Draining The Fuel Tank And Carburetor



- a) Place an approved gasoline container below the carburetor, and use a funnel to avoid spilling fuel.
- b) Remove the carburetor drain bolt and sealing washer, and then move the fuel valve lever to ON position.
- c) After all the fuel has drain into the container, reinstall the drain bolt and sealing washer. Tighten them securely.

- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the CUSTOMER RESPONSIBILITIES section of this manual).

CYLINDER

1. Remove spark plug.
2. Pour one ounce (29ml) of oil through spark plug hole into cylinder.
3. Pull starter handle slowly a few times to distribute oil.
4. Replace with new spark plug.

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and /or dirt in your gasoline will cause problems.
- If possible, store your unit indoors and cover it to give protection from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust.



IMPORTANT: NEVER COVER MOWER WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.



CAUTION: Never store the lawn mower with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

TROUBLESHOOTING POINTS

WARNING: Before inspecting, cleaning or servicing the unit, shut off engine, wait for all parts to come to a complete stop, disconnect spark plug wire and move wire away from spark plug. Remove ignition key on electric start models. Failure to follow these instructions can result in serious personal injury or property damage.

ATTENTION! This table describes service guidelines only. It does not provide complete service information. Complete service is available from your local Weibang Dealer. Before performing any of the corrections in this table, refer to the appropriate information contained in this Manual or the Engine Owner's Manual for the correct safety precautions and operating or maintenance procedures.

TROUBLESHOOTING POINTS※

SYMPTOM	POSSIBLE CAUSE	TREATMENT
Engine will not start	1.Out of fuel or fuel valve OFF	Refuel, move lever to ON
	2. Bad fuel,engine stored without treating or draining gasoline	Drain fuel tank and carburetor, refuel with fresh gasoline
	3.Wrong grade fuel	Refer to Engine manual
	4.Spark plug wire disconnect	Connect spark plug wire
	5.Spark plug improperly gapped , faulty, fouled, or wet with fuel	Remove spark plug, clean, adjust gap or replace
	6. Fuel hose choked	Clean
	7. Throttle lever out of right position	Readjust
	8.Dirty air filter.	Clean/replace air filter.
	9.Choke lever on opened position	Close except warm start
	10.Water in fuel.	Drain fuel tank and carburetor and refill tank with
Engine Lacks power	1.Fuel hose choked or has air in it	Clean and let air out
	2.Muffler, exhaust carbon deposits	Clean
	3.Air filter element(s) clogged	Clean or replace
	4.Breather tube leak	Fix or replace
	5.Piston, piston ring and cylinder wore	Replace
	6.Interface leak between cylinder head and cylinder block	Replace cylinder gasket
	7.Valve clearance improper	Readjust
	8.Plug wire loosed	Connect firmly
	9.Impurity or water in fuel system	Drain tank, refuel fresh gasoline
	10.Fuel filter cap exhaust choked	Clean
	11.Carburetor improper adjust	Readjust
	12.Valve leak	Honing valve

SYMPTOM	POSSIBLE CAUSE	TREATMENT
Flameout during running	1.Out of fuel	Refuel
	2.Carburetor choked	Check and clean
	3.Spark plug damage	Replace
	4.Ignition winding damaged	Replace
	5.Cylinder or valve damaged	Fix or replace
Engine overheat	1.Engine oil lack	Add engine oil
	2.Air circulate is not expedite	Clean engine fan
	3.Carburetor improper adjust	Readjust
Grass catcher not filling	1.Cutting height too low.	1.Raise cutting height.
	2.Lift on blade worn off.	2.Replace blade.
	3.Catcher not venting air.	3.Clean grass catcher.
Hard to push	1.Grass is too high or wheel height is too low.	1.Raise cutting height
	2.Rear of lawn mower housing/blade dragging in grass.	2.Raise rear of lawn mower housing one (1) setting higher.
	3.Grass catcher too full.	3.Empty grass catcher.
	4.Handle height position not right	4.Adjust handle height to suit.
Loss of drive	1.Belt wear.	1.Check/replace drive belt.
	2.Belt off of pulley.	2.Check/reinstall drive belt.
	3.Dirt in drive pinions.	3.Clean drive pinions.
Loss of power	1.Cutting too much grass.	1.Set to "Higher Cut" position.
	2.Rear of lawn mower housing of cutting blade dragging in heavy grass.	2.Set to "Higher Cut" position.
	3.Buildup of grass, leaves, and trash under mower.	3.Clean underside of mower housing.
	4.Dirty air filter.	4.Clean/replace air filter.
	5.Too much oil in engine.	5.Check oil level.
	6.Walking speed too fast.	6.Cut at slower walking speed.
Poor cut-uneven	1.Worn, bent or loose blade.	1.Replace blade. Tighten blade bolt.
	2.Buildup of grass, leaves and trash under mower.	2.Clean underside of mower housing.
	3.Wheel heights uneven.	3.Set all wheels at same height.
Over vibration	1.Blades loosed or unbalanced	Re-tighten or re-balance
	2.Blades bracket distortion	Replace

SYMPTOM	POSSIBLE CAUSE	TREATMENT
Exceptional noise	1.Blades conflict strike each other	Replace and adjust to perpendicular each other
	2.Engine oil lake	Check oil leak or replace piston ring
Discharge improper or can not discharge	1.Low engine speed	Move throttle lever to "rabbit" position
	2.Lawn too wet	Wait until lawn dry
	3.Grass heavy or tall	First mow on highest height, then mow at desired height
	4.V-belt skidded	Adjust tensioner
Lawn not flat	Blades edge over abrasion	Replace or regrind
Can not self-move	1.V-belt loosened	Adjust or replace
	2.Transmission problem	Maintain transmission

✘ 1)Ensure the engine and blades are stopped and the spark plug disconnected before performing any maintenance, do not touch the engine muffler after use at very high temperature.

ATTENTION: Before the mower is stored, make sure the engine cool.

TRANSPORTATION:

Turn off the engine. Make sure the blade are not bent or damaged when you are pushing the mower over obstacles.

WARRANTY

Proper maintenance of your Weibang equipment is the owner's responsibility. Follow the instructions in your owners guide for correct lubricants and maintenance schedule. Your Weibang dealer carries a complete line of quality lubricants and filters for your equipments engine, transmission, chassis and attachments.

We provide a 2 year warranty from date of purchase: During that time we will replace we assure a free of charge replacement of any part or parts found to be defective in material or workmanship or both, after examination by an authorized dealer, or by the service department of Weibang. We will supply repair services for the machine during a warranty period limited to 2 years.

A warranty period of 90 days applies to machines used for commercial purposes.

If your lawnmower has malfunctioned within the warranty period, and on presentation of a properly filled in warranty certificate and the purchase invoice, please contact with Your local dealer or Yangzhou Weibang Garden Machine, if there is no authorised maintenance station or dealer in your area. The machine will be repaired expense depended on warranty certificate and invoice.

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.

Damages caused by an inappropriate or faulty operation, by non-observance of the safety regulations and operating instructions contained in this manual, by unauthorised repairs or a dismantling of the machine by unauthorised persons, or any other deficiency that cannot be attributed to faulty workmanship or materials, do not fall under this guarantee. Such deficiencies, malfunctions or damages are the sole responsibility of the owner, and eventually necessary repairs are at the owner's expense.

This limited warranty gives you specific legal rights, and which is in addition to any statutory rights to which you may be entitled and your statutory rights are not affected by this warranty. If you need additional information concerning this written warranty, or assistance in obtaining services, please contact:

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

Tel: +86-514-87849959, +86-514-87849975 Fax: +86-514-87849938

Email questions and comments to:

Sale@weibang.com

Visit our website:

www.weibang.com

EC 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:

Cristoph Meyer, Bochstraße 1, D23569 Lubeck, Germany

We declaring that the machinery

product name: **Lawn mower**

commercial name: **Commercial mower**

function: **Service for agriculture**

model: **WB778SLC V-3in1**

serial number: (paste code sticker hear)

type: **gasoline powered**

fulfils all the relevant provisions of Directives:

2006/42/EC, 2014/30/EU

and tested in accordance with below standards:

EN ISO 5395-1:2013+A1; EN ISO 5395-2:2013+A1+A2; EN ISO 14982:2009

place and date of the declaration: **Jiangsu 2023-11-18**

signature of the person:



Sucheng Ju (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

A. Ownership Information

Owner's Name:			
Owner's Address:			
Post code:		Country:	

B. Machine Information

Date of purchased:			
Machine Model:			
Machine Serial No:			

C. Product Information Update

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?	

D. Signature

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

Packing List

NAME	QTY.	REMARK
Lawn Mower	1	
Grass Catcher	1	
Mulching plug	1	
Ejector (discharge deflector)	1	
ENGINE OPERATOR'S MANUAL	1	
Commercial Mower OPERATOR'S MANUAL	1	

Record of maintenance/service works

Date	Content	Maintenance Man	Remark

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Contact E-Mail:	
What is the preferred contact method?	

D. Signature

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