

OWNER'S MANUAL

Assembly & Operating Instructions



BBT Wood Chipper
BBT-CH-4000



Thank you for choosing our equipment. It was carefully engineered to provide excellent performance when properly operated and maintained.

Please read this entire manual before operating the equipment. It instructs you on how to set up, operate, and maintain your equipment safely and easily. Ensure that you and any other persons operating the equipment carefully follow the recommended safety practices at all times, as failure to do so could result in personal injury or property damage.

All information in this manual is relevant to the most recent product information available at the time of printing. Review this manual frequently to familiarise yourself with the equipment, its features, and operation. Please note that this Owner's Manual may cover a range of product specifications for various models. Characteristics and features discussed and/or illustrated in this manual may not be applicable to all models. We reserve the right to change product specifications, designs, and equipment without notice and without incurring obligation.

All the power testing information used to establish the power rating of the engine equipped on this equipment can be found in the engine manufacturer's manual or website. If you encounter any problems or have questions about the equipment, please contact our Customer Support Department.

Throughout this manual, all references to the right and left side of the equipment are observed from the operating position. The engine manufacturer is responsible for all engine-related issues concerning performance, power-rating, specifications, warranty, and service. Refer to the engine manufacturer's Owner's Manual, packed separately with your equipment, for more information.

Customer Support

Before initiating a product return, kindly reach out to our dedicated Customer Support Department at Bigger Boyz Toyz. We are here to assist you.

Phone: 02 4257 4787

Email: bbt@bbta.com.au

Warehouse: Unit 2/3 Delta Place, Albion Park Rail NSW 2527

If you have difficulty assembling the product or have any questions about the controls, operations, or maintenance of the equipment, please don't hesitate to get in touch with our Customer Support Department.

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SAFETY & ALERT SYMBOLS

FOR YOUR SAFETY AND THE SAFETY OF OTHERS!



Safety precautions should be followed all the time when operating this equipment. Failure to read and understand the Safety Messages and Operating Instructions could result in injury to yourself and others.



This Operating Instructions has been developed to provide complete instructions for the safe and efficient operation of this equipment. Refer to the engine manufactures instructions for data relative to its safe operation.



WARNING: Read and thoroughly understand all instructions in this equipment and on the safety decals before assembling or operating this equipment. Failure to do so may cause serious injury or death. Do not allow anyone to operate this equipment who has not read this manual. As with all power equipment, this equipment can be dangerous if assembled or used improperly. Do not operate this equipment if you have any questions concerning its safe operation. Contact our Customer Support Department for assistance in addressing any queries or concerns.

This SAFETY ALERT SYMBOL identifies important safety messages in this manual. Failure to follow this important safety information may result in serious injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in serious injury or death.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in serious injury or death.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

ADDITIONAL INFORMATION AND POTENTIAL CHANGES

We reserve the right to discontinue, change, and improve our products at any time without notice or obligation to the purchaser. The descriptions and sections contained in this manual were in effect at the time of printing. Equipment described within this manual may be optional. Some illustrations may not be applicable to your equipment.

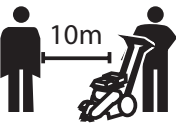
WARNING

Your Responsibility—Restrict the use of this equipment to persons who have read, understood, and will follow the warnings and instructions in this manual and on the machine

SAVE THESE INSTRUCTIONS!

HAZARDS SYMBOLS

Potential hazards associated with the operation of this equipment will be referenced with Hazard Symbols which appear throughout this manual.

	READ THE OWNER'S MANUAL(S) : Read, understand and follow all instructions in the manual(s) before attempting to assemble and operate.
	FACE PROTECTION : Always wear safety goggles or safety glasses with side shields or a face shield when operating this equipment as well as ear protection.
	WEAR GLOVES : Always wear non-slip, heavy-duty protective gloves when operating this equipment.
	WEAR SAFETY FOOTWEAR : Always wear non-slip steel-toed safety footwear when operating this equipment.
	BEWARE OF ROTATING BLADES : This equipment has a rotating cutting blade capable of amputating hands and feet and throwing objects. Keep hands and feet out of openings while machine is running. Failure to observe these safety instructions could result in serious injury or death.
	BEWARE OF FLYING OBJECTS : Beware of thrown objects, which can ricochet causing serious injury to the eyes. Always wear eye & ear protection when operating.
	Never wear loose clothes or long jewellery and keep your long hair secured when operating this equipment. Never operate this equipment in bare feet or sandals.
	CARBON MONOXIDE AND GAS : Exhaust contains poisonous carbon monoxide, a colourless and odourless gas. Breathing exhaust fumes can cause loss of consciousness and may lead to death.
	RESPIRATORY HAZARDS : ALWAYS wear approved respiratory protection when required.
	PETROL OIL : Petrol is extremely flammable and the vapours are explosive. Serious personal injury can occur when petrol is spilled on you or your clothing, which can ignite. In the event of a petrol spill, wash your skin and change clothes immediately.
	BURN HAZARDS : Engine components can produce intense heat. To avoid burns, DO NOT touch these areas while the engine is running or right after operations. Never operate the engine with removed heat shields or guards.
	BYSTANDERS : Keep bystanders, helpers, pets, and children at least 10m from the equipment while it is in operation. Stop equipment if anyone enters the area.
	SINGLE OPERATOR : Only one person should operate the equipment at a time.
	DO NOT use in the rain.

GENERAL SAFETY

This power wood chipper is mainly used in the garden, modern agriculture for small trees, waste branches, leaves and woody material crushing, after that they become debris particles which is easy to store and transport, can also be used for composting directly. Due to the using of efficient gasoline engine, this wood chipper is not be restricted by the site environment and other conditions and can much conveniently using for operator.

This manual must be carefully read and fully understood by the operator before using this wood chipper to avoid unnecessary damage and hurts. In this manual, we focus on the safety matters, structural characteristics, main technical parameters, working process, use instructions, maintenance, installation, handling storage, troubleshooting and other aspects of the wood chipper, and also equipped with a sketch to show operator the necessary usage and maintenance knowledge for reference.

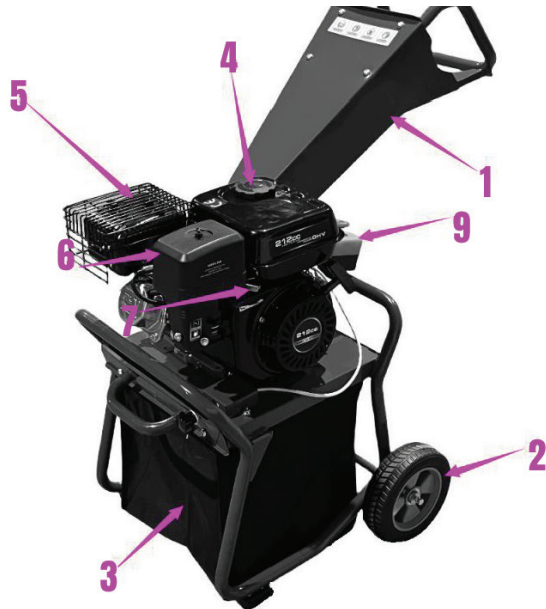
- » **Age Requirement:** Do not allow operation by persons under 18 years of age.
- » **Protective Clothing:** Always wear protective clothing, including shatterproof glasses and steel-toed boots.
- » **Health Check:** Do not operate if you are unwell, fatigued, or under the influence of drugs or alcohol.
- » **Proper Protection:** Use respiratory masks, hearing, and eye protection.
- » **Decal Visibility:** Replace any unreadable safety decals or nameplates.
- » **Attachments:** Use only recommended accessories to prevent damage or injury.
- » **High Temperatures:** Let the engine cool before refueling or servicing. Never touch hot components like the exhaust manifold.
- » **Ventilation:** Refuel in well-ventilated areas, away from open flames.
- » **Explosive Atmospheres:** Avoid operating near combustible materials.
- » **Unattended Operation:** Stop the engine if leaving the equipment unattended.
- » **Maintenance:** Keep the equipment in safe operating condition. Service air filters and check all bolts before use.

OPERATION SAFETY

- » This wood chipper cannot be used for any other purposes that not stated in the user manual.
- » Only original machines and parts are allowed. Safety risk will be increased by using non-approved parts, which is not allowed. We are not responsible for any accidents or damages caused by the use of non-original parts.
- » You must use it under the proper guidance of a dealer or someone who has experience in using it in the first time.
- » Minors are not allowed to touch and use this machine.
- » This machine can only be lent to people who are familiar with the machine and have a reasonable knowledge of its usage, together with safety and operating instructions.
- » Check carefully if all the safety protection parts of the machine are installed in place and confirm all the fasteners are firm and reliable before using the machine.
- » Choose a suitable flat working area before using this machine. This machine can only be used outdoors, need to keep away from no-noise workshop, laboratory, office and other places. The fuel of this machine is petrol, which is flammable and explosive, operation and maintenance must be away from the fire, prevent static electricity and flammable and explosive materials to avoid burns, slide, fire, explosion, and other safety accidents.
- » When using this machine, you must wear durable gloves, goggles, ear muffs, dust mask and non-slip shoes, and wear tight clothing to avoid personal injury caused by clothing involvement in the machine,
- » Stop operation before any adjustment, refueling, cleaning. (Note: Do not smoke while refueling.)
- » Check whether the wood chipper has good support to ensure stability when it works. (Note: Do not work on slopes, must be placed on a flat solid ground.)
- » Proper maintenance must be carried out before and after use, which can avoid the occurrence of some safety accidents and extend the service life of the machine.
- » Read and understand this manual and related safety matters carefully before operating, otherwise it may cause injury or damage!

STRUCTURAL FEATURE

This machine has safe protection, solid structure and smooth operation.



- | | |
|-------------------|-----------------------------|
| 1. Feed hopper | 7. Accelerator |
| 2. Wheel | 8. Fuel shut-off Valve |
| 3. Collection Bag | 9. Emergency stop |
| 4. Fuel tank cap | 10. ON/OFF switch |
| 5. Exhaust | 11. Air Lever (Choke Lever) |
| 6. Air Filter | |

ASSEMBLY

UNPACKING AND LIST OF MATERIALS

Carefully inspect the product to ensure that there are no damaged elements. If you find any damaged or missing parts, do not use the machine until the defect has been repaired or all the missing pieces has been replaced.

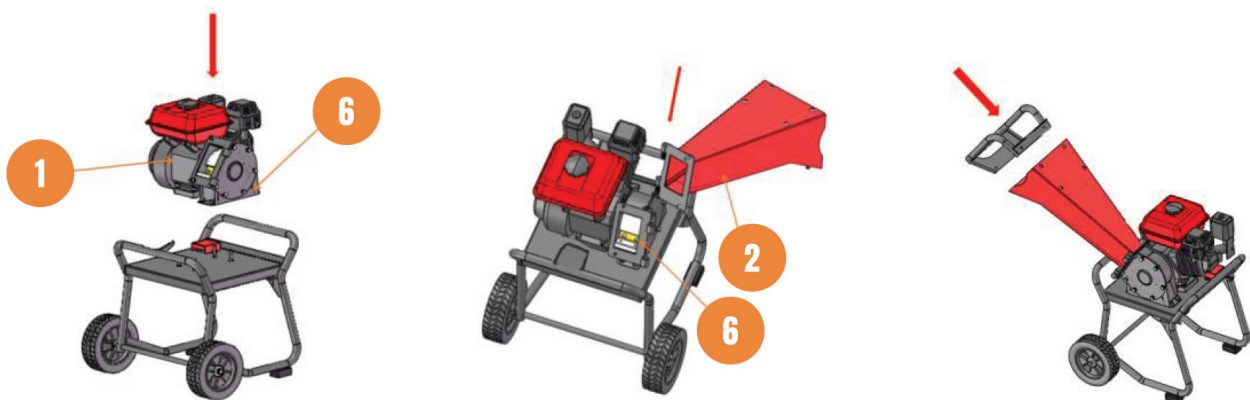
Using the machine without all of its parts or with defective parts can cause severe personal injury.

MOUNTING

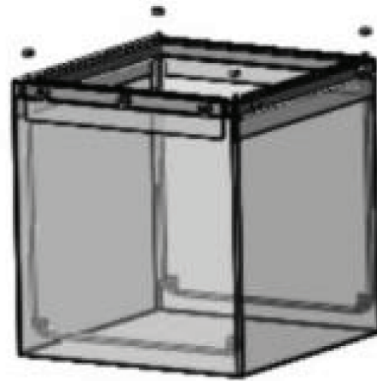
Step 1. Upside down the rack base (3) , fixed the rubber mats (8) and wheels (4)



Step 2. Fix the main chipping room (6) with engine (1) on the rack base. Add the feed hopper (2), then fix the feed hopper handle with bolts, as follows.



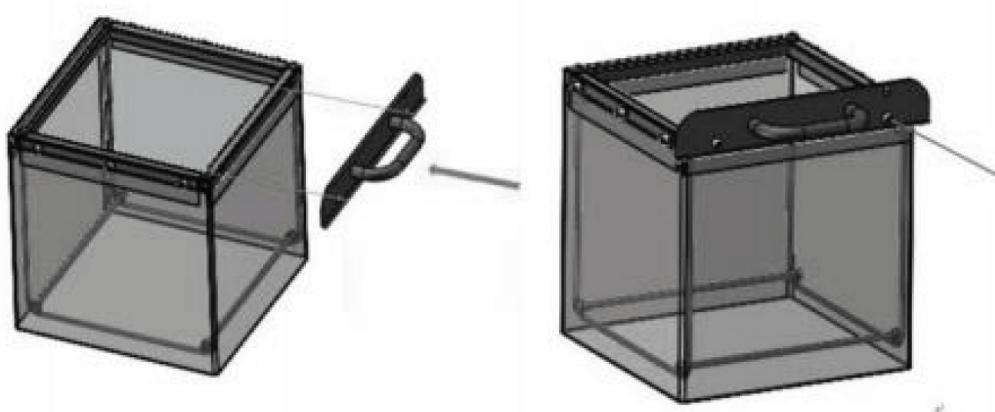
Step 3. Assembly of the collection bag. Put the U legs into the bag and lock them with nuts.



Connect the two I Legs with bolts and fixed.



Connect the handle with screws.



Step 4. Assembly the emergency stop on the rack, and push the collection bag to its rail. Screwed the knob onto the lock switch. Connect the lines for both emergency stop and interlock switch to engine.



The finally assembly machine is as attached.



OPERATION

SAFETY WITH PETROL - POWERED MACHINES

WARNING

Petrol is a highly flammable liquid. Petrol also gives off flammable vapor that can be easily ignited and cause a fire or explosion. Never overlook the hazards of petrol. Always follow these precautions:

- » Never run the engine in an enclosed area or without proper ventilation as the exhaust from the engine contains carbon monoxide, which is an odorless, tasteless, and a deadly poisonous gas.
- » Store all fuel and oil in containers specifically designed and approved for this purpose and keep away from heat and open flame, and out of the reach of children.
- » Replace rubber fuel lines and grommets when worn or damaged.
- » Fill the petrol tank outdoors, after the engine off and cool completely. Don't handle petrol if you or anyone nearby is smoking, or if you're near anything that could cause it to ignite or explode. Reinstall the fuel tank cap and fuel container cap securely.
- » If you spill petrol, do not attempt to start the engine. Move the machine away from the area of the spillage and avoid creating any source of ignition until the gas vapors have dissipated. Wipe up any spilled fuel to prevent a fire hazard and properly dispose of the waste.
- » Allow the engine to cool completely before storing in any enclosure. Never store a machine that has gas in the tank, or a fuel container, near an open flame or spark such as a water heater, space heater, clothes dryer or furnace.
- » Never adjust or repair with the engine running. Shut down the engine, disconnect the spark plug wire, keeping it away from the spark plug to prevent accidental starting, wait 5 minutes before adjusting or making repairs.
- » Never tamper with the engine's governor setting. The governor controls the maximum safe operation speed and protects the engine. Over-speeding the engine is dangerous and will cause damage to the engine and to the other moving parts of the machine. If required, see your authorized dealer for engine governor adjustments.
- » Keep combustible substances away from the engine when it is hot.
- » Never cover the machine while the muffler is still hot.
- » Do not operate the engine with the air cleaner or the carburetor air intake cover removed. Removal of such parts could create a fire hazard. Do not use flammable solutions to clean the air filter.
- » The muffler and engine become very hot and can cause a severe burn; do not touch.
- » If this machine has not been used for a long time, it is necessary to pour out old oil (loose this bolt) before adding the new oil, otherwise the engine may not be started.



Important: This machine is supplied without fuel and oil. Fill, before use, fuel and oil to the correct level. Operating the machine without, with too little or the incorrect oil can cause serious motor damage that is not covered by the warranty.

⚠ WARNING

- » Read and understand all instructions, safety precautions, and/or warnings listed in *Safety Attention*s before operating the wood chipper. If any doubt or question arises about the correct or safe method of performing anything found in this manual, please contact the dealers in your area.
- » When operating the Wood Chipper, make sure you are standing in the safe operating area. You must always stay in the safe operating area when feeding branches into the machine. Never place any part of your body into a position that causes an unsafe operating condition.
- » Before loading and operating the wood chipper, always wear protective gear, including safety goggles, hearing protection, tight-fitting gloves without draw strings or loose cuffs, and steel-toed shoes.
- » Knowing the correct and incorrect methods of Chipping woods. Never using an incorrect or unsafe method.
- » Block or short&thick wood are not allowed to be chipped separately, for the safety of the operator and the good of the blades, they are better to be crushed with branches .
- » Thick wood end go firstly then thin end.

PREPARE

1. Check engine condition
2. Fill engine with right type engine oil (according engine manual).
3. Check blade condition make sure the blade is not dull and the blade-fan is not blocked.
4. Check the tank for enough oil (about 2/3 volume).
5. Check bolts condition and if all bolts are tight.
6. Check safety switch in function.

STARTING

1. Position your Wood Chipper on flat, dry ground, make sure the machine cannot be moved.
2. Set the emergency stop to "ON" position and the interlock switch is connected.
3. Make sure the fuel shut-off valve is in the "ON" position.

4. Move the choke control lever to the "CHOKE" position (should only be needed if the engine is cold).
5. Move the throttle control lever to the "FAST" position.
6. Gently pull the starter cord until you feel resistance, then pull the cord firmly until the motor starts.
7. Move the choke control lever (if used for cold engine) slowly back to the "RUN" position when the engine is running well.
8. If the wood chipper has not been running (cold engine), warm up the engine by running the engine at half throttle for 3 to 4 minutes, then advance the engine throttle control to the maximum speed.

STOPPING

1. Press the emergency stop to stop the engine.
2. Turn the "ON/OFF" switch to "OFF" position on the engine.
3. Loose the interlock switch Knob on the collection bag position can also stop the engine.
4. Set the fuel level in the "OFF" position. The motor will stop running within minutes due to a lack of petrol.

WHEN BLOCKED

If the drum stops while chipping woods or branches, the engine should be stopped, and take out the woods which stuck the drum, and then restart the engine, and chip again.

If the machine starts to make an unusual noise or vibrate, shutdown the engine, disconnect the spark plug wire. Wait 5 minutes for the engine to cool down, then inspect for damage. Vibration is generally a warning of trouble. Check damaged parts and clean, repair and/or replace as necessary. If the machine topples over during operation, immediately turn off.

Check all hardware for tightness before each operating

A Note to All Users

List of warnings and cautions cannot be all-inclusive. If situations occur that are not covered by this manual, the operator must apply common sense and operate this wood chipper in a safe manner. Contact the dealers for assistance in your area.

MAINTENANCE

Regular maintenance is the way to ensure the best performance and long life of your machine.

Check all the parts regularly with 1-2 times monthly including blades, etc. Replace the blades as soon as the chipping performance begins to deteriorate. The blunt blades will lower working efficiency and cause the damage of machine.

Please refer to this manual and the engine manufacturer's user manual for maintenance procedures.

⚠ WARNING

Before performing any maintenance procedure or inspection, stop the engine, wait five minutes to allow all parts to cool. Disconnect the spark plug wire, keeping it away from the spark plug.

Do not smoke during the following activities. Do not perform work in the vicinity of sparks, flames or open flames.

Never clean the machine with water or a high-pressure cleaner. Water in the machine can cause a short circuit or corrosion. Remove large waste with the help of a soft brush.

ENGINE SERVICE

Refer to the engine manufacturer's user manual for engine maintenance.

MAINTENANCE SCHEDULE

Proper maintenance extends this life of the machine and ensure safe and trouble-free use. Never carry out maintenance work while the motor is running.

Action		Each use	1st month or 20 hrs	Every 3 months or 50 hrs	Every 6months or 100hrs	Every year or 300hrs
Motor Oil	Check	*				
	Replace		*		*	
Spark Plug	Check electrode distance, clean			*		
	Replace					*
Air Filter	Check	*				
	Clean			*(1)	*(1)	
	Replace					*(1)
Fuel Lever	Check and adjust when motor has cooled down					*
Fuel tank and filter	Clean and replace if necessary					*
Fuel line	Check and replace if necessary	*				
Carburetor	Check	*				

(1) More often when used in dusty environments.

TRANSPORT AND STORAGE

Switch off the motor and close the fuel lever before moving the machine.

If the machine is taken out of use for a longer period of time, you must empty the fuel tank and change the oil. This prevents problems with the restart.

- » Allow the motor to cool before storing.
- » Empty the fuel tank.
- » Store fuel in containers specially designed and approved for this purpose.
- » Store fuel in a cool, well-ventilated place, away from sparks, open flames, or other sources of ignition.
- » Never store fuel or a machine with fuel in the tank in a building where fumes can come into contact with sparks such as an open fire or a boiler, oven tumble dryer.
- » Change the oil.
- » Cover the machine and place it in a clean and dry environment.

SPECIFICATION

Model	BBT-CH-4000
Chipping Capacity	50mm
Collection Bag	40L
Displacement	212cc
Output power	4.3KW/3600rpm
Petrol tank capacity	3.6L
Oil capacity	0.6L
Starting System	Recoil
Fuel Type	Unleaded Petrol
Guaranteed sound power	112dBA
Carton Measurement	560 x 500 x 640mm

The above maximum wood chipper capacity data was obtained from the actual chipping test of bamboo with 90% moisture content and paulownia with 80% moisture content. Due to the variety of wood materials that can be chipped by this machine, and the differences in hardness, toughness, moisture content and so on, the actual maximum particle diameter and efficacy of this machine may be different from the above related parameters. The manufacturer recommends that the best particle diameter is 40MM, the specific chipping method and the selection of raw materials see the instructions and precautions.

All of the above maximum speed of the blade drum is measured at the engine output speed at 3600rpm.

TROUBLESHOOTING

The troubleshooting guide below lists the most common problems, causes and remedies.

THE COMMON FAULTS	ELIMINATION METHOD
The engine cannot be started	Read the engine users' manual, check the fuel ON-OFF, see if it's ON, check if gets enough fuel and motor oil, check the emergency stop button is on, check the interlock switch is connected.
Engine flameout midway	Check if the engine is stopped by overloading, check if something blocked in the chipping hopper, check the emergency stop button and interlock switch, and also check whether the fuel is out.
The hopper blocked	Stop the machine and remove the feed hopper. Don't touch the blade during the working, make sure your hands not to be cut by the blades.
Has strange noise	Stop the machine, check if the fastener gets loose, if not, let the professionals to check the repair.
The blade destroyed	Go to the professional repair point to change or repair the blades.
The material grinding not sufficient	Let the professional to adjust the blade space, the recommended space for chipping is 1.5mm-3mm.



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