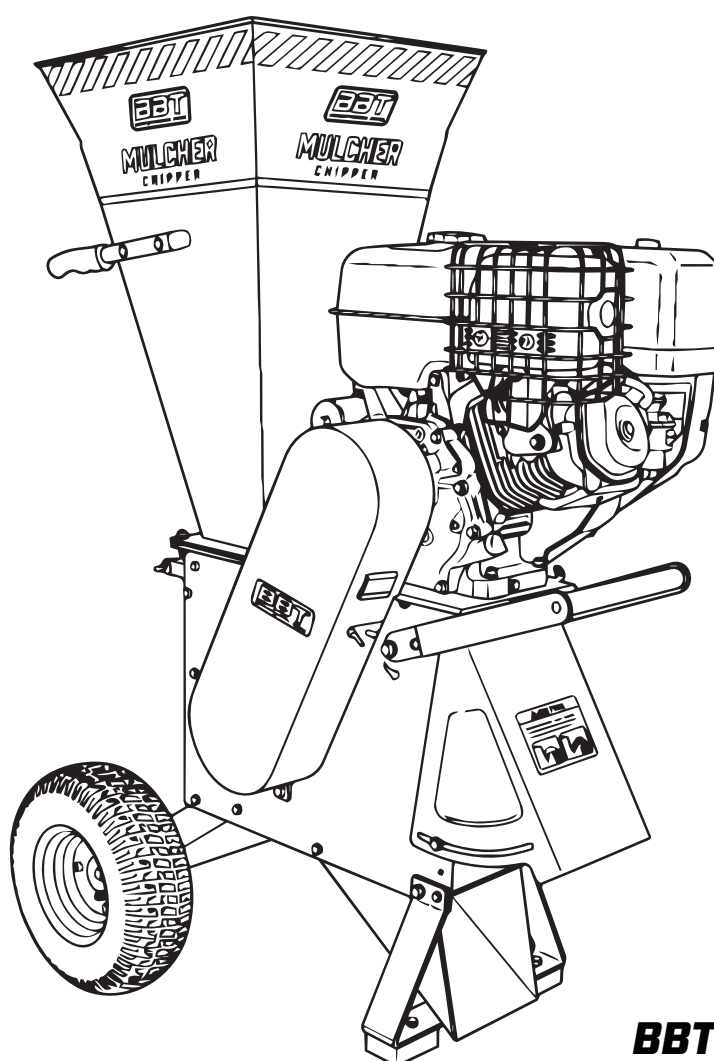




Mulcher/Chipper



OWNER'S MANUAL

**BBT-MUL-7HPES
BBT-MUL-13.5HPBS
BBT-MUL-15HPES**

IMPORTANT: Please make sure that the person who is to use this equipment carefully reads and understands these instructions before operating.

Save this manual for future use



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.

Customer Support

Before initiating a product return, kindly reach out to our dedicated Customer Support Department at BBT Australia. 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 manufacture's 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.

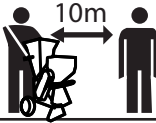
WARNING

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 restricted by the site environment and other conditions and can be used more conveniently by the operator.

This manual must be carefully read and fully understood by the operator before using this wood chipper to avoid unnecessary damage and injuries. 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 becoming entangled 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!

CARBON MONOXIDE HAZARD

- » Carbon monoxide is a colorless and odorless gas. Inhaling this gas can cause death as well as serious long term health problems such as brain damage.
- » The symptoms of carbon monoxide poisoning can include but are not limited to the following: Headaches, dizziness, nausea, breathlessness, collapsing or loss of consciousness.
- » Carbon monoxide poisoning symptoms are similar to the flu, food poisoning, viral infections and simply tiredness. It is quite common for people to mistake this very dangerous poisoning for something else.
- » To avoid carbon monoxide poisoning DO NOT use Petrol/Diesel powered equipment inside any of the following: Home, garage, tent, camper van, mobile home, caravan or boat. This is not exhaustive and if you are in any doubt contact your dealer.
- » If you think you have or someone around you has been affected by carbon monoxide poisoning: Get them fresh air immediately, by leaving the affected area or by opening doors and windows. If safe and practical to do so make sure that the machine is turned off.
- » DO NOT enter a room you suspect of have carbon monoxide present- instead call the emergency services.
- » Contact a Doctor immediately or go to Hospital - let them know that you suspect carbon monoxide poisoning.
- » DO NOT use in an enclosed area or moving vehicle.

MAINTENANCE SAFETY

- » **Responsibility:** Good maintenance is your responsibility; poor maintenance is an invitation to trouble.
- » **Cleanliness:** Keep service area clean and dry.
- » **Grounding:** Be sure electrical outlets and tools are properly grounded.
- » **Lighting:** Use adequate light for the job at hand.
- » **Engine Off:** Make sure the engine is off before you begin any maintenance or repairs. This will eliminate several potential hazards.

STORAGE SAFETY

Follow the steps below to prepare your tiller for storage. Read your engine manual for detailed instructions on preparing the engine for storage.

1. **Rust Protection:** Protect wheels and axles from rust:
 - » Remove lock pin and slide wheel off hub.
 - » Coat the axles lightly with axle grease.
 - » Slide wheel back on hub and insert lock pin.
2. **Fuel System:** Drain fuel system completely following Engine manufacturer's instructions or add fuel stabilizer to prevent fuel from gumming up during extended storage period.
3. **Oil Change:** While engine is still warm, drain the oil from the engine. Refill with fresh oil of the recommended grade.
4. **Cleaning:** Clean external surfaces, engine, and cooling fan.
5. **Spark Plug:** Remove spark plug, pour one ounce of SAE 30 oil into spark plug hole.
6. **Storage Location:** Transport unit to a suitable storage location. If you have chosen to use a fuel stabilizer and have not drained the fuel system, follow all safety instructions storage precautions in this manual to prevent the possibility of fire from the ignition of gasoline fumes. Remember, gasoline fumes can travel to distant sources of ignition and ignite, causing risk of explosion and fire.
7. **Unauthorized Use:** If there is any possibility of unauthorized use or tampering, remove the spark plug and store it in a safe place before storing the tiller unit. Be sure to plug the spark plug hole to prevent foreign material from entering.

STRUCTURAL FEATURE

Fuel Tank

Use regular unleaded fuel. Always leave about 1" of air gap at the top of the tank for fuel expansion to prevent seepage or spills.

Throttle Lever

Move the throttle lever to 1/4 of the course, and full throttle when the engine starts

Choke Lever

Move the choke lever to the CHOKE position to prepare a cold engine for starting.

Fuel Valve

Use the fuel valve to turn fuel on and off to engine.

Discharge Chute

Chipped materials are discharged through this opening. It may be left open or the chipper collection bag can be attached to the chute.

Blade Access Hatch

Remove the blade access hatch to clean, remove, or sharpen the Mulcher/Chipper blade.

Hopper

Use the chipper hopper to feed leaves and small branches, up to 25mm (1").

On/Off Switch

Set this switch to **On** before using recoil starter. Set switch to **Off** to switch off engine.

Recoil Starter

The starter handle is located on the engine. Pull the starter handle to start engine.

Chipper Chute

Use the side chipper chute to feed longer and/or thicker pieces of yard waste into the impeller for chipping.

Ensure bottom chute is in the down position before starting. As failure to do so, could result in clogging and jamming of the mulcher.



ASSEMBLY

Required tools: 13mm spanner, 12mm Spanner, A Philips head screwdriver.

Approximate assembly time: 20 minutes

Scan the QR code on the right to watch the assembly video.



1. Remove the chipper from its carton.

Remove staples, break glue on top flaps, or cut tape at carton end and peel along top flap to open carton.

2. Verify all parts

- » Hopper
- » Engine and body (pre-assembled)
- » Chipper Chute
- » Hardware Bag
- » Trailer hitch (15HP model only)
- » Hopper handles
- » 2 x Wheels
- » Front Support Leg
- » Handle Bars
- » Axle

3. Disconnect the spark plug wire.

Before setting up your Mulcher/Chipper, disconnect the spark plug wire from the spark plug and ground against the engine to prevent inadvertent starting. This step should be taken as a precaution whenever you are working on this machine.

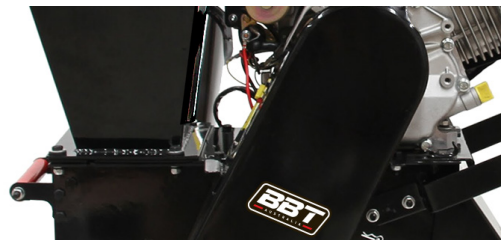
4. Attach the hopper.

FIRST, attach the two handles to the sides of the hopper using the wrench provided and a Phillips head screw driver. Tighten the nuts securely.



SECOND, place the hopper over the opening on the chipper box, ensuring the rubber gasket is correctly aligned. Secure the hopper with the two "swing up bolts" and the one fixed bolt using the wrench provided. Tighten the nuts securely.

5. Attach the side chipper chute.



Place the side chipper chute over the four bolts protruding from the side of the chipper box and secure the nuts tightly using the wrench provided.

6. Attach the chip collection bag.

Place the metal grommets of the bag over the wire loops located at the base of the engine. Wrap the bag under the bottom of the discharge chute and pull the draw string tightly and secure it.

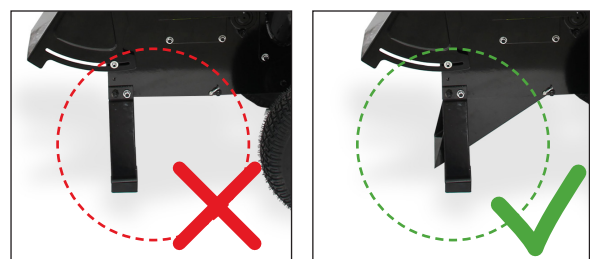
7. Attach the trailer hitch (15HP model only).

Place the trailer hitch into the socket at the base of the chipper over the axle assembly. Insert the pin and secure with the locking cotter pin.

8. Re-connect the spark plug wire.

9. Move the bottom chute in the down position.

Ensure bottom chute is in the down position before starting. As failure to do so, could result in clogging and jamming of the mulcher.



OPERATION

1. **DO NOT** put hands and feet near rotating parts or in the feeding chambers and discharge opening. Contact with the rotating impeller can amputate fingers, hands and feet.
2. Before starting the machine, make sure the side chipper chute, feed intake, and cutting chamber are empty and free of all debris.
3. Thoroughly inspect all material to be shredded and remove any metal, rocks, or other foreign objects which could cause personal injury or damage to the machine.
4. If it becomes necessary to push material through the hopper, use a small diameter stick. Do not use your hands or feet.
5. If the impeller strikes a foreign object or if your machine should start making an unusual noise or vibration, immediately shut the engine off. Allow the impeller to come to a complete stop. Disconnect the spark plug wire, ground it against the engine and perform the following steps:
 - a. Inspect for damage.
 - b. Repair or replace any damaged parts.
 - c. Check for any loose parts and tighten to assure continued safe operation.
4. **Do not** allow an accumulation of processed material to build up in the discharge area. This can prevent proper discharge and result in kickback of material through the feed opening.
5. **Do not** attempt to shred or chip material larger than specified on the machine or in this manual. Personal injury or machine damage could result.
 - a. The hopper is for leaves and small branches, up to 25mm (1"). **DO NOT use the hopper for vines or long branches as they may clog the rotating blades.**
 - b. The side chipper chute is for longer and/or thicker pieces of yard waste.
8. **Never** attempt to unclog either the feed intake or discharge opening while the engine is running. Shut the engine off, wait until all moving parts have stopped, disconnect the spark plug wire and ground it against the engine before clearing debris.
9. **Never** operate without the hopper, side chipper chute, or discharge chute properly attached to the machine.
10. **Never** empty or change discharge bag while the engine is running. Stop the engine when leaving the operating position.
11. Keep all guards, deflectors and safety devices in place and operating properly.
12. Keep your face and body back and to the side of the side chipper chute while feeding material into the machine to avoid accidental kickback injuries.
13. **Never** operate this machine without good visibility or light.
14. **Do not** operate on a non-level surface.
15. **Do not** operate in a confined space.
16. **Do not** operate this machine while under the influence of alcohol or drugs.
17. **Do not** touch the muffler and engine as they become hot and can cause a burn.
18. **Never** pick up or carry machine while the engine is running.
19. **Do not** leave the machine running while unattended.
20. Keep children, bystanders, and pets 10m away.
21. Use only manufacturer approved accessories/attachments.

DANGER

This machine was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury.

WARNING



Always wear hearing and eye protection while operating this machine or if you are within 10 metres of this machine.

IMPORTANT: This unit is shipped without petrol or oil in the engine. Be certain to fill the engine with petrol and oil as instructed before operating your machine.

WARNING

ADD PETROL AND OIL



Step 1: Add petrol (recommended 95 - 98 unleaded)

Step 2: Add the recommended SAE30 engine oil as per the specifications on page 20, or until the oil is about to overflow from the oil fill spout. A low oil sensor will prevent the engine from running unless the oil is COMPLETELY FULL. Ensure both oil fill plugs are secure after filling.

Never fill fuel tank indoors, with engine running or until the engine has been allowed to cool for at least 2 minutes after running.

STARTING THE ENGINE

Step 4: Move choke lever on engine to CHOKE position. (A warm engine may not require choking).

Step 5: Turn the fuel valve to the ON position.

Step 6: Grasp starter handle and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point). Pull rope with a rapid, continuous, full arm stroke. Keep a firm grip on starter handle. Let the rope rewind slowly. Repeat the previous steps until engine fires.

Rapid retraction of the recoil starter cord can pull the starter cord back faster than you can let go. When starting the engine, pull the cord slowly until resistance is felt then pull rapidly to avoid kickback.

Step 7: Electric start: Follow Step 3 to Step 5, and then turn the key to start the engine. Do not run starter more than 10 times at intervals of 5 seconds On / 5 seconds Off.

Step 8: When engine starts, move choke control gradually to the RUN position.

NOTE: A noise will be heard when finding the start of the compression cycle. This noise is caused by the flails and fingers, which are part of the shredding mechanism, and it should be expected until the impeller reaches full speed.

Step 9: After engine is started, gradually release choke.



USING THE MULCHER/CHIPPER

Yard waste such as leaves and pine needles can be raked up and placed in the hopper assembly for shredding. **DO NOT PUT BRANCHES INTO THE TOP Hopper. BRANCHES SHOULD BE FED INTO THE SIDE CHIPPER CHUTE.**

If using the side chipper chute to chip branches, it is important to let the chipper feed the branches through automatically. **DO NOT** attempt to force the branches through. If the branches do not automatically feed through, gently push the branch and then allow the chipper to automatically feed the branch through. Forcing branches into the side chute may wear the belt prematurely.

After the material has been shredded by the flail blades on the impeller assembly, it will be discharged out of opening or into chip catcher bag.

DO NOT attempt to shred or chip any material other than vegetation found in a normal yard (i.e. branches, leaves, twigs, etc.) Avoid fibrous plants such as tomato vines until they are thoroughly dried out.

IMPORTANT: The flail screen is located inside the housing in the discharge area. If the flail screen becomes clogged, remove and clean as instructed. For best performance, it is also important to keep the chipper blade sharp.

The maximum chipping capacity depends on your model. Forcing oversized material into the machine can cause damage and is a safety hazard. Always check the chute opening before starting work.

- » **For 3-inch Models (BBT-MUL-6.5HPBS & BBT-MUL-7HPES):** The chute opening is 76mm x 76mm. These models can chip branches up to 3 inches (76mm) in diameter.
- » **For 4-inch Models (BBT-MUL-13.5HPBS & BBT-MUL-15HPES):** The chute opening is 128mm x 80mm. These models can chip branches up to 4 inches (100mm) in diameter, provided they fit through the opening.

WARNING

DO NOT attempt to use the side chute while using the hopper at the same time. The chipper will bog down and will vibrate violently causing premature wear.

TO EMPTY THE CHIP BAG

Step 1: Stop the engine.

Step 2: Release the drawstring and remove the bag from the discharge chute.

Step 3: Empty bag and reattach to the discharge chute opening.

MAINTENANCE

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

Check all the parts regularly with one to two times per month 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.

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.

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.

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.

	Before each use	20 hrs or every 3 months	50 hrs or every 3 months	100 hrs or every 6 months	300 hrs or every 1 years
Engine Oil (Check)	X				
Engine Oil (Change)		X			
Air Cleaner (Check)	X				
Air Cleaner Wash			X		
Fuel Filter Cap (Clean)				X	
Spark Plug (Clean)				X	
Spark Plug (Change)					X
Lubricate Release Bracket			X		
Lubricate Hopper Assembly			X		
Check Chipper Blade		X			
Fuel Tank and Filter (Clean)				X	

MAINTENANCE AND STORAGE

- » **NEVER** tamper with safety devices. Check their proper operation regularly.
- » Check bolts and screws for proper tightness at frequent intervals to keep the machine in safe working condition. Also, visually inspect machine for any damage and repair, if needed.
- » Before cleaning, repairing or inspecting, stop the engine and make certain the impeller and all moving parts have stopped. Disconnect the spark plug wire and ground it against the engine to prevent unintended starting.
- » **DO NOT** change the engine governor settings or overspeed the engine. The governor controls the maximum safe operating speed of the engine.
- » Maintain or replace safety and instruction labels as necessary.
- » Follow this manual for safe loading, unloading, transporting, and storage of this machine.
- » **NEVER** store the machine or fuel container inside where there is an open flame, spark or pilot light such as a water heater, furnace, clothes dryer, etc.
- » Always refer to the operator's manual for proper instructions on off-season storage.
- » If the fuel tank has to be drained, do this outdoors.
- » Observe proper disposal laws and regulations for petrol, oil, etc. to protect the environment.

IF THE CHIPPER BECOMES CLOGGED

If the discharge area becomes clogged:

1. Stop the engine. Disconnect spark plug wire from spark plug and ground against the engine.
2. Remove the large hopper and the clean out the access hatch on the side of the chipper engine box (as necessary).
3. Reach in and clear the debris causing the blockage. Reinstall the hopper and the clean out access hatch.
4. Connect the spark plug wire and restart.

Always stop engine, disconnect spark plug, and ground against engine before cleaning, lubricating or doing any kind of maintenance on your machine. Occasionally, changing or tightening the belt is required.

REMOVING AND SHARPENING THE BLADE

The chipper was shipped with one blade attached and one blade in the hardware bag. You can extend the belt life by operating the chipper with a sharp blade.

1. Disconnect the spark plug wire and ground against the engine.
2. Remove the blade access hatch and rotate the blade to align with the access hatch.
3. Remove the flail screen in the discharge chute by removing the pins that secure it at the top and bottom of the screen.
4. Remove the blade using a 3/16" Allen wrench on the outside of the blade and an adjustable wrench on the impeller assembly (through the discharge chute). Use a piece of pipe or wood to block the flails, preventing them from inadvertently turning.
5. Add, replace or sharpen the blade as desired.
6. When sharpening the blade, protect hands by using gloves and following the original angle of grind. Torque to 250–300 in. lbs.

CHANGING OR TIGHTENING THE BELT

Proper belt tension is critical for performance and preventing premature wear. Occasionally, you may need to tighten a loose belt or replace a worn one. To change the belt:

⚠ WARNING

Before starting any maintenance, follow these steps:

1. Stop the engine and wait for all moving parts to come to a complete stop.
2. Allow the engine to cool down for at least five minutes.
3. Disconnect the spark plug wire and ground it against the engine to prevent accidental starting. To tighten the tension on the pulleys, follow the above steps plus:

How to Change a Worn Belt

Use this procedure when installing a brand new belt.

1. Remove the belt guard to expose the pulleys and belt.
2. Loosen the four engine mounting bolts enough for the engine to slide. Slide the engine forward (toward the chipper chute) to create slack in the belt.
3. Carefully slip the old belt off both the engine and impeller pulleys. Install the new belt, ensuring it is properly seated in the groove of each pulley.
4. Slide the engine backward (away from the chipper chute) to apply tension to the new belt. A properly tensioned belt should have approximately 10mm (3/8") of play when pressed firmly in the middle.
5. Once the tension is correct, securely tighten all four engine mounting bolts.
6. Reinstall the belt guard and reconnect the spark plug wire.



**BBT mulcher belt change
using vice grips**



BBT mulcher belt change

How to Tighten a Loose Belt

Use this procedure if the existing belt is in good condition but has stretched and become loose.

1. Remove the belt guard. To get clear access to the engine bolts, you may also need to remove the handle and the discharge chute.
2. For reference, you can use a pencil to scribe a mark on the base plate along the current edge of the engine. This helps track your adjustment.
3. Loosen the four engine mounting bolts so the engine can slide.
4. Carefully slide the engine backward (away from the chipper chute) about 1/8" (3mm) to increase tension on the belt.
5. Press firmly on the middle of the belt. It should have approximately 10mm (3/8") of play. If it is still too loose, slide the engine back slightly more. If it is too tight, slide the engine forward slightly.
6. Once the tension is correct, securely tighten all four engine mounting bolts.
7. Reinstall the discharge chute, handle, and belt guard. Finally, reconnect the spark plug wire.

CLEANING THE MULCHER/CHIPPER

1. Make sure engine is off.
2. Wipe off machine with an oiled rag to prevent rust.
3. If the fuel tank has to be drained, do so outdoors.
4. Observe proper disposal laws and regulations for gas, oil, etc., to protect the environment.

STORING THE MULCHER/CHIPPER

1. Clean the equipment thoroughly.
2. Wipe equipment with an oiled rag to prevent rust.
3. Refer to engine manual for correct engine storage instructions.
4. Store unit in a clean, dry area. Do not store next to corrosive materials such as fertilizer.

NEVER store the machine or fuel container inside where there is an open flame, spark or pilot light such as a water heater, furnace, clothes dryer, etc.

OPTIMIZING CHIPPER PERFORMANCE - KEEP THE BLADE SHARP!

During operation, if you notice any of the following symptoms, your chipper blade probably needs to be sharpened:

- » Chipper does not auto-feed
- » Chipper engine bogs down or labours
- » Chipper produces “chunks” or “sawdust” instead of “chips”
- » Smoke issues from the drive belt
- » Chipper jams or stops altogether

For optimal chipping, you will need to sharpen and/or replace your chipper’s blade frequently. Similar to the teeth of a chainsaw, your chipper blade requires frequent sharpening. We recommend that you check the blade for sharpness before each use and after every 2-3 hours of operation.

Some models contain a spare blade in the hardware bag. If you require additional blades, they can be purchased from us. Please contact our customer service.

As a rough guide, your chipper blade will require sharpening after 4-8 hours of normal use when chipping harder woods such as maple or oak. When chipping softer woods such as poplar and pine, the blade can last 10-20 hours before sharpening is required. If you hit a foreign object such as a stone or nail or if you are processing limbs that have small amounts of sand or soil on them, you will need to sharpen the blade much more frequently.

Operating the chipper with a sharp blade will extend the life of :

1. **The blade** because if a chipper blade becomes too dull, much of the blade itself will have to be removed during the sharpening process. Frequent sharpening maintenance as needed is best. Occasional, intensive sharpening will greatly diminish the life of the chipper blade.
2. **The belt** because as the blade becomes dull, the forces on the belt increase and belt wear is accelerated.
3. **The chipper structure** because if wood is forced into a chipper with a dull blade, the force can bend the feed chute, bend the blade carousel and/or shear the bearing bolts.

To remove and/or replace the blade, please follow the instructions in the owner’s manual.

Since the blade is hardened steel, it should be sharpened on a wet wheel, or by hand on a stone. (Avoid sharpening the blade using a grinder the way you would a lawn mower blade. If you do, the localized heat will cause the steel to lose its tempered edge and the blade will dull more quickly in use). While many customers are comfortable sharpening their own blade, most local service centres will sharpen your blade for a small fee. If you need assistance finding a service centre or with blade sharpening, please contact our Customer Service .

SPECIFICATION

MODEL	BBT-MUL-6.5HPBS	BBT-MUL-7HPES	BBT-MUL-13.5HPBS	BBT-MUL-15HPES
Maximum RPM	3600 RPM	3600 RPM	3600 RPM	3600 RPM
Horsepower	6.5 HP	7 HP	13.5 HP	15 HP
Fuel Type	Unleaded 95 Octane or higher	Unleaded 95 Octane or higher	Unleaded 95 Octane or higher	Unleaded 95 Octane or higher
Fuel Capacity	3.5L	3.5L	7L	7L
Oil Type	SAE30	SAE30	SAE30	SAE30
Oil Capacity	600ml	600ml	1100ml	1100ml
Engine Type	Briggs & Stratton Vanguard	JD	Briggs & Stratton	JD
Displacement	196cc	208cc	196cc	420cc
Start Type	Pull Start	Electric Start & Pull Start	Pull Start	Electric Start & Pull Start
Chipper	YES	YES	YES	YES
Mulcher	YES	YES	YES	YES
Maximum Chipping Capacity	76mm (Up to 3-inch branches)	76mm (Up to 3-inch branches)	128mm x 80mm (Up to 4-inch branches)	128mm x 80mm (Up to 4-inch branches)

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
Engine fails to start	Spark plug lead disconnected. Fuel tank empty or stale fuel. Throttle control lever not in correct starting position. Choke not in CHOKE position. Fuel supply in OFF position. Blocked fuel line. Faulty spark plug. Low oil level.	Connect lead to spark plug. Fill tank with clean, fresh petrol. Move throttle lever to FAST position. Move choke to CHOKE position. Turn fuel to ON. Clean fuel line. Clean, adjust gap, or replace. Fill.
Engine runs erratic	Spark plug lead loose. Unit running on CHOKE. Blocked fuel line or stale fuel. Water or dirt in fuel system. Dirty air cleaner. Carburettor out of adjustment.	Connect and tighten spark plug lead. Move choke lever to OFF position. Clean fuel line; fill tank with clean, fresh fuel. Drain fuel tank. Refill with fresh fuel. Clean or replace air cleaner. See authorised service dealer.
Too much vibration	Loose parts or clogged flail. Trying to force branches or logs too fast into the side chipper chute Trying to force branches in the hopper or attempting to put branches into hopper while side chipper chute is in use	See authorized service dealer. Cut off excess limbs off of large branches and ensure blades are sharp Allow the branches to feed through the side chipper chute first before attempting to use the hopper. Also do not put branches in the hopper.

PROBLEM	CAUSE	REMEDY
Engine overheats	Engine oil level low. Dirty air cleaner. Carburettor not adjusted properly.	Fill crankcase with oil. Clean or replace air cleaner. See authorised service dealer.
Occasional skip (hesitates)	Spark plug gap too close.	Adjust gap to .030".
Unit does not discharge	Discharge chute clogged. Foreign object lodged in impeller. Low engine RPM.	Stop engine immediately and disconnect spark plug lead. Clean screen and inside of discharge opening. Stop engine and disconnect spark plug lead. Remove lodged object. Always run engine at full throttle.
Rate of discharge slows	Low engine RPM. Chipper blade dull.	Always run engine at full throttle. Replace chipper blade or see your authorised service dealer.

WARRANTY

This product comes with a 2-year parts warranty for all items used for domestic purposes from the date of purchase. For products used for commercial purposes, the warranty period is 3 months.

Warranty coverage does not include damage caused by normal wear and tear, accidents, misuse, lack of maintenance, neglect, natural disasters, or other external causes. Additionally, damage caused by operating the equipment in a manner outside the described instructions will not be covered. The warranty is considered void if the item has been modified, altered, or tampered with by a person, excluding standard periodic maintenance.

The warranty does not cover consumables such as tyres, blades, belts, brakes, chains, clutches, bearings, and pull starts.

Misuse or Abuse: We do not offer a warranty on items damaged due to misuse, abuse, or infrequent servicing. No refund or exchange will be provided in such instances. Please check each item description for further warranty details, as some specific components of power equipment are not covered. Warranties do not cover issues arising from lack of oil in engines or improper oil-fuel mixtures where required

Australian Consumer Law: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if they fail to be of acceptable quality and the failure does not amount to a major failure.

Customer Support

For further assistance, kindly reach out to our dedicated Customer Support Department at BBT Australia. 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



OUR PRODUCT RANGE

Wood Log Splitters
Chippers & Mulchers
Chainsaws & Garden Care
Post Hole Diggers & Tillers
Generators & Water Pumps
Outdoor Kitchens & BBQs

Sales & Support: (02) 4257 4787

Location: Albion Park Rail, NSW

NEED HELP, PARTS, OR AN UPGRADE?

Scan a QR code below for instant access:



bbta.com.au