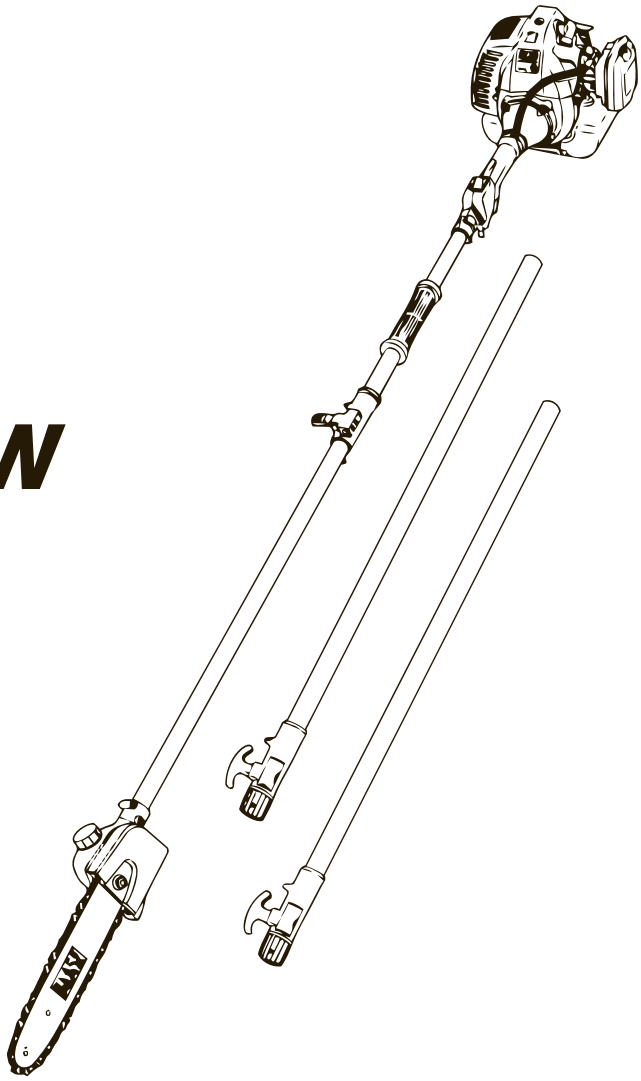
OWNER'S MANUAL

Assembly & Operating Instructions

BLACK MAX

10" POLE CHAINSAW

BMX-PS-52



N23701

BIGGER BOYZ TOYZ

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 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.

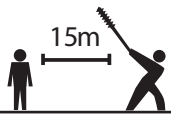
⚠ WARNING

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 15m from the equipment while it is in operation. Stop equipment if anyone enters the area.
	Never cut off branches over your head. The cut-off branches may hit you and cause serious injury.
	DO NOT use in the rain.

GENERAL SAFETY

This equipment is primarily designed for versatile garden and agricultural maintenance. Powered by a high-performance petrol engine, the unit offers maximum portability and freedom of movement, allowing the operator to work effectively in various outdoor environments without being restricted by power cords or fixed site conditions.

This manual must be carefully read and fully understood by the operator before using this equipment 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 equipment, 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 equipment 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. 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 equipment 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!

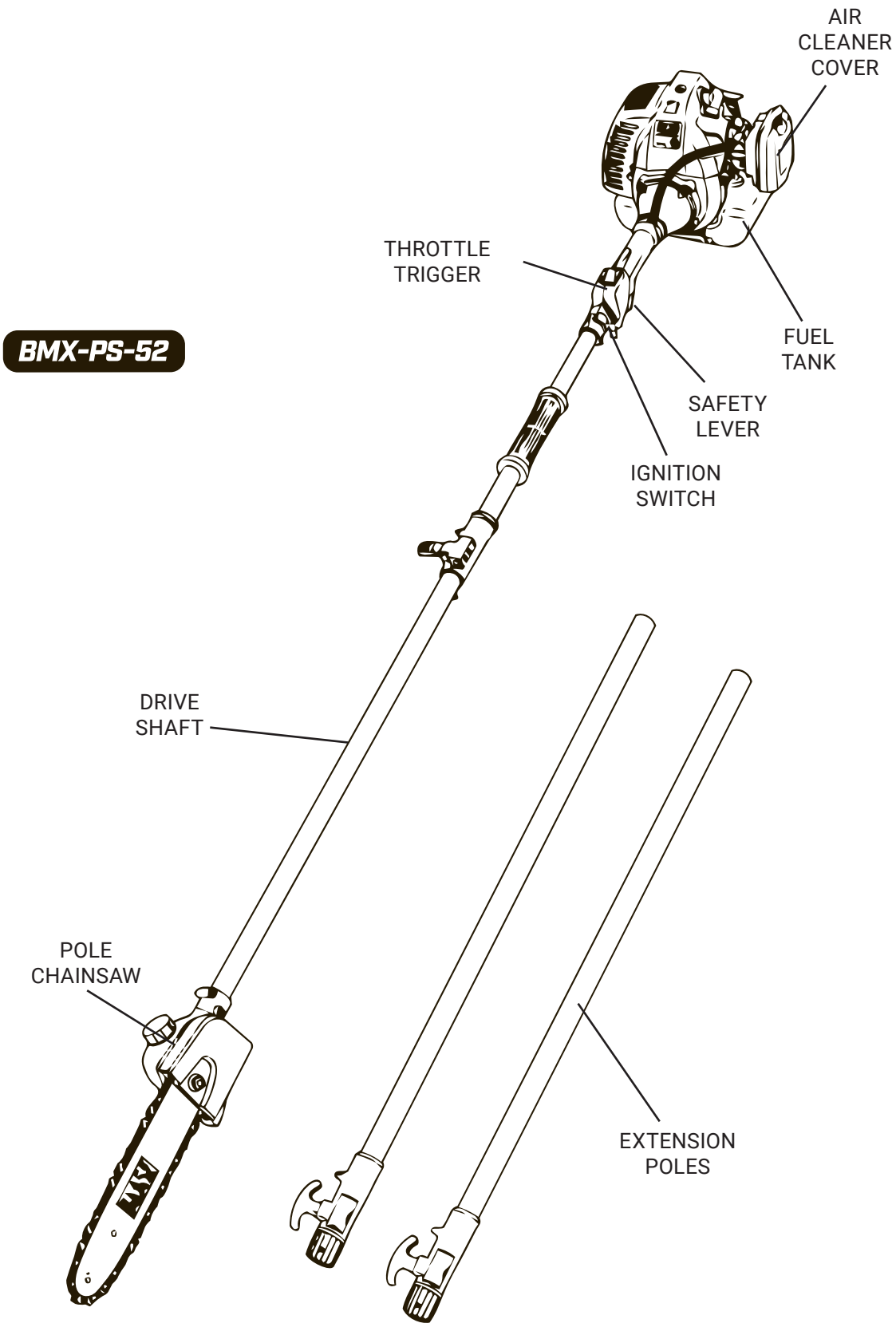
CARBON MONOXIDE HAZARD

- 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.

SPECIFIC SAFETY INSTRUCTIONS FOR THE POLE CHAINSAW

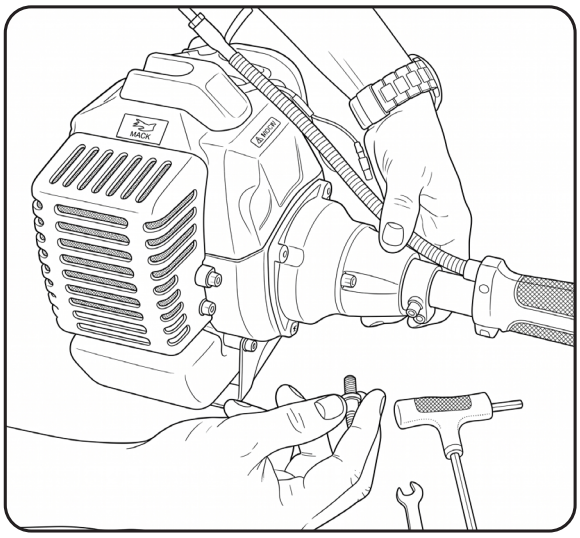
- **Electrical Hazard:** Like the hedge trimmer, the pole pruner is **not insulated**. Maintain a distance of at least 15 meters (49 feet) from electrical lines to avoid fatal shocks.
- **Kickback and Pinching:** Kickback happens rapidly if the guide bar tip touches an object; pinching occurs when wood closes around the chain. Grip the pruner firmly with both hands, cut at high speeds, and avoid cutting with the bar nose.
- **Falling Objects:** Never stand directly underneath the branch you are cutting, and do not cut off branches over your head.
- **Sprocket Cover:** Never operate the pole pruner without the sprocket cover installed.

PARTS LOCATION



ATTACHING THE BELLHOUSING AND THROTTLE CABLE

Attaching the Bellhousing

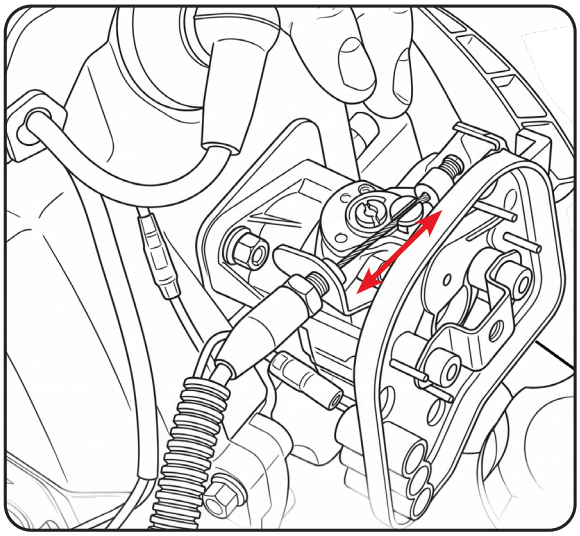


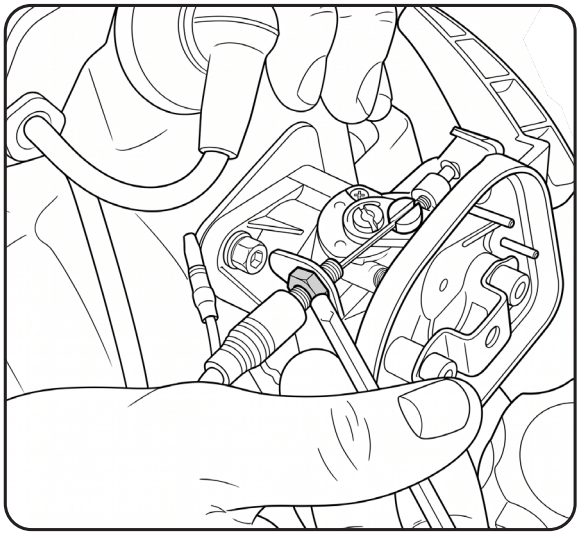
1. Take the first section shaft (with the bellhousing attached) and line it up with the engine unit.

2. Slide the bellhousing onto the engine unit. Insert the four mounting bolts into the corresponding holes.

3. Using the provided T-handle Allen key, tighten all four bolts. Ensure they are firmly secured to prevent the shaft from vibrating loose during use.

Connecting the Throttle Cable





4. Unscrew the knob on the air filter housing and remove the cover. This gives you better access to the carburetor throttle control.

5. Screw the threaded end of the throttle cable into the bracket opening on the engine.

6. Insert the “bullet” end of the inner throttle cable into the recessed slot on the carburetor’s throttle swivel.

7. Ensure the cable sits snugly in the recess. If adjusted correctly, there should be no significant slack in the cable when the trigger is at rest.

8. Once positioned, tighten the locking nut against the bracket using a small wrench to prevent the cable from vibrating out of adjustment.

Electrical Connections and Final Assembly

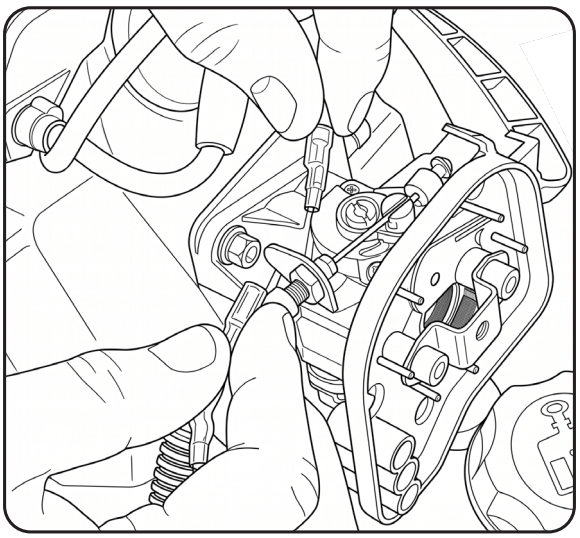
1. Locate the two wires coming from the handle and the two from the engine.

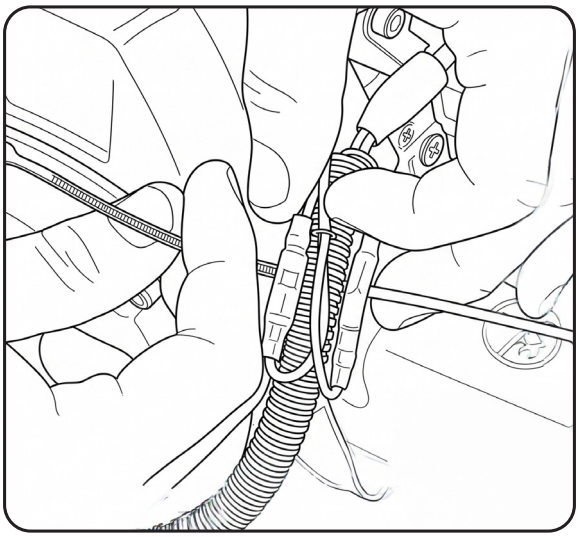
2. Connect the wires male-to-female. Note: Wire colors may not always match up exactly; simply ensure each wire from the handle is connected to a corresponding wire on the engine.

3. Bundle the connected wires and the throttle cable together neatly. Use a plastic cable tie to secure them to the engine housing.

4. Use a pair of cutters to snip off the long tail of the cable tie.

5. Place the foam air filter back into position, replace the plastic cover, and tighten the securing knob.





Latest workshop videos are available on our website. Visit our Workshop Resources page to learn more. https://bbta.com.au/pages/workshop-resources

INSTALLING THE GUIDE BAR AND SAW CHAIN

1. Place the sawing chain onto the sawing rail.

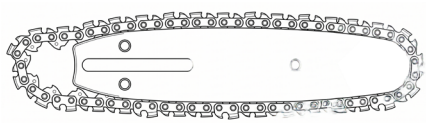
2. Position the guide bar so that the chain tensioning stud projects into the guide bar. Ensure that the saw chain runs in the correct direction!

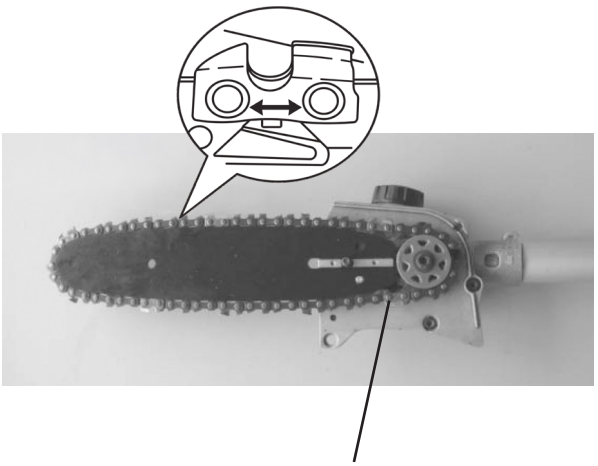
3. Attach the chain wheel protection and then tighten the fixing bolt lightly.

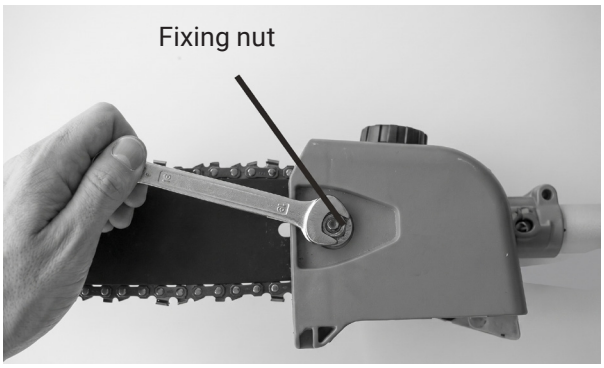
4. Tighten the tensioning screw.

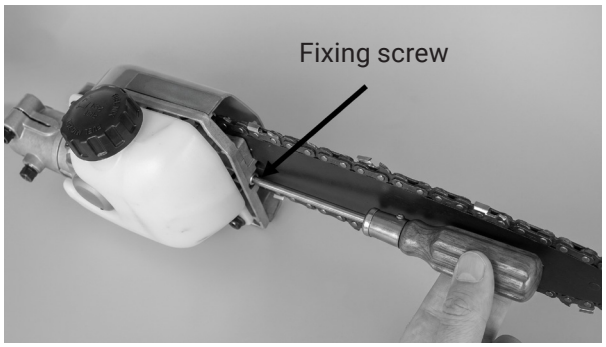
5. Tighten the fixing nut.

NOTE: The chain should not sag, but it should be possible to pull it a few millimeters away from the saw rail.



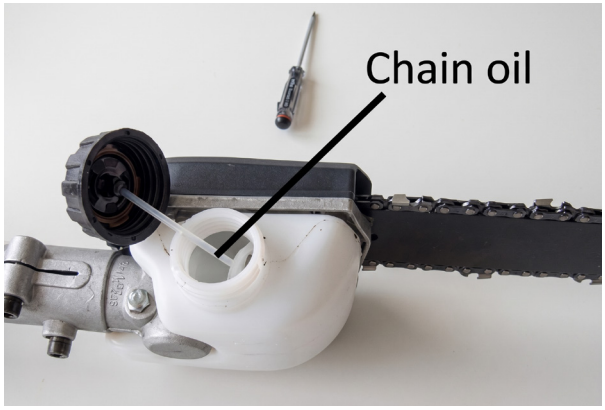






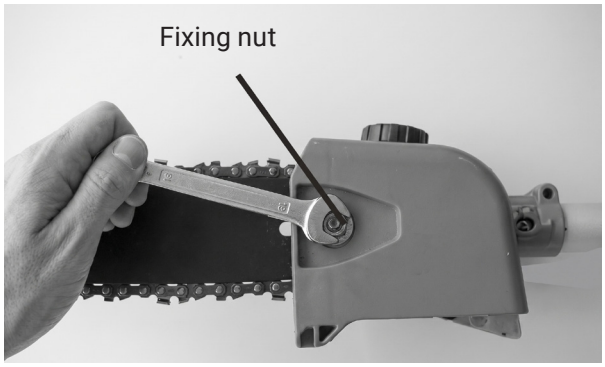
ADD CHAIN OIL

Feed the chain oil into the oil tank and tighten the cap securely.



CHAINSAW TENSION SET UP

1. Unscrew the fixing nut.

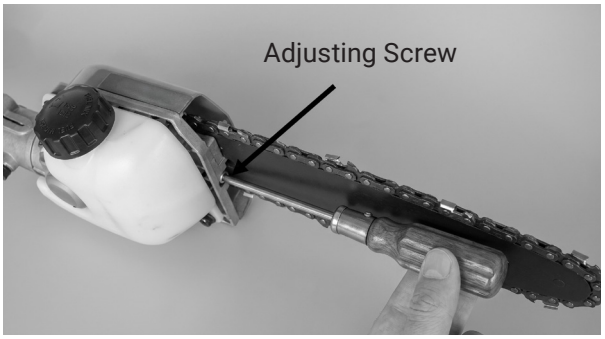


⚠ WARNING

The saw chain has very sharp edges. Use protective gloves for safety.

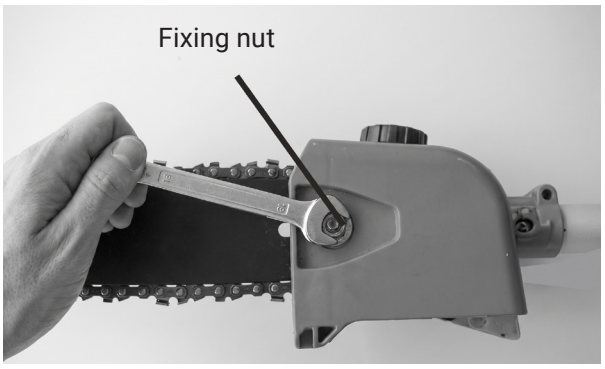
Always pay attention to the chain tension. A slackened chain will increase the risk of backlash. If slackened, the chain could spring out of the guide, could cause injury to the operator and as well as damage to the unit. A slackened chain wears out very quickly and the sprocket wheel and the guide bar wears out.

2. Turn the adjusting screw until the chain fits but may be moved with ease.



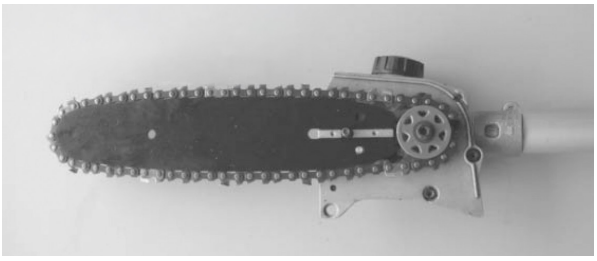
CHANGE GUIDE BAR OR SAW CHAIN

1. Unscrew the fixing nut and remove the chain wheel guard.



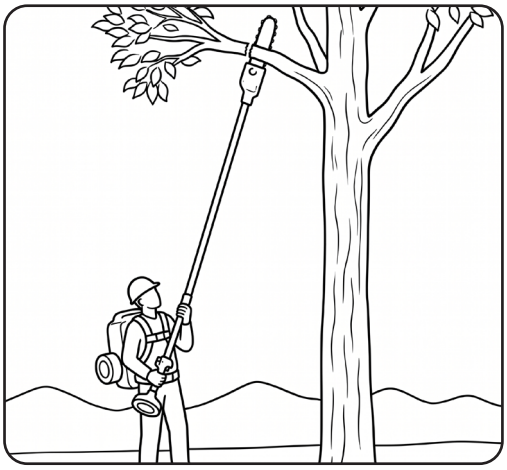
2. Remove the saw chain and guide bar.

3. Now you can change the bar or the saw chain.



Cutting with a Pole Chainsaw

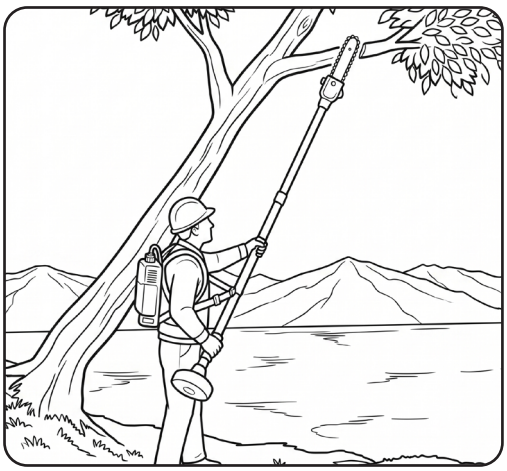
Typical Applications



Standard Cutting:

The most convenient working position is with the tool set at approximately a 60° angle. However, the angle can be adjusted to suit the task and working conditions.

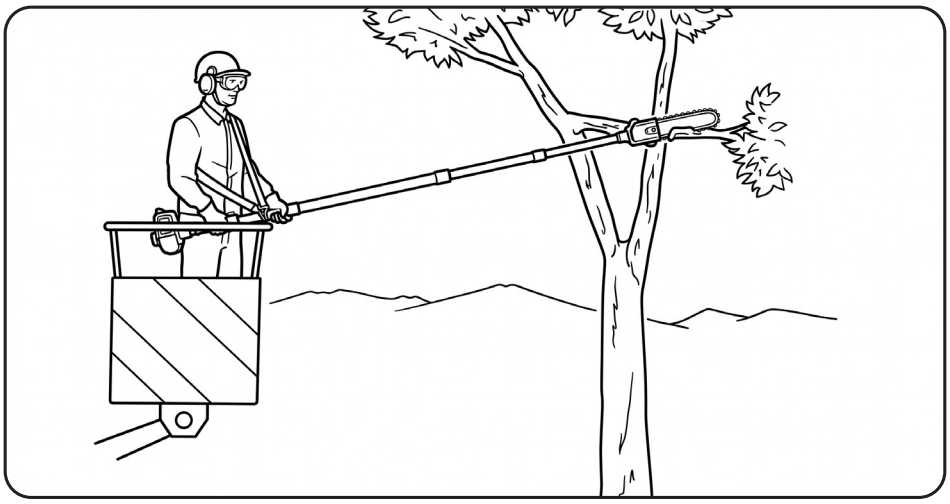
Cutting Above Obstacles:



The unit's extended reach allows you to prune branches over obstacles such as rivers or lakes. Adjust the tool angle as needed, depending on the position of the branch.

Cutting from a Work Platform:

The long reach enables safe cutting close to the trunk without risking damage to surrounding branches from the platform. Set the tool angle according to the branch position.

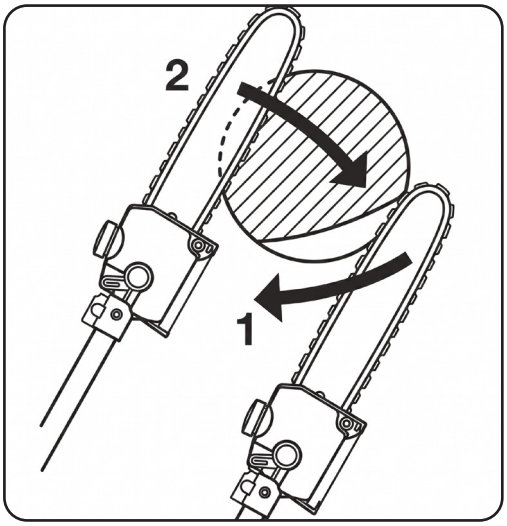


Working techniques

Relieving cut:

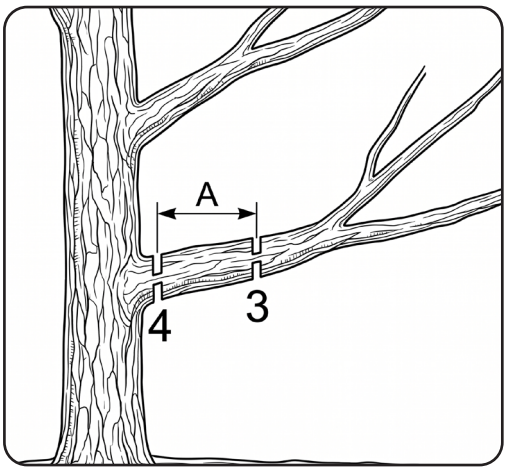
To avoid tearing the bark, kickback or pinching the bar when pruning thick branches, always start by performing a relieving cut (1) on the underside of the branch.

To do this, apply the cutting attachment and pull it across the bottom of the branch as far as the bar nose. Perform the cross-cut (2).



Flush-cutting thick branches:

If branch diameter is more than 10 cm (4”), first perform undercut (3) and cross-cut at a distance (1) of about 25cm (10”) from the final cut. Then carry out the flush-cut (4), starting with a relieving cut and finishing with a cross-cut.



Cutting with a Pole Hedger

- Ensure that no one is in your work area prior to use.
- Keep away from children and pets.
- Never hold the trimmer in a way in which the blades are pointed towards someone else.
- Never allow the blades to come into proximity with your body while the engine of the trimmer is in operation.
- Always be sure to turn off the engine before changing the angle of the blades, removing branches which have become stuck in the blades, or at any other time when coming into close proximity with the blades.
- Always wear work gloves made of leather or some other sturdy material when using the trimmer.
- Always place the blade cover provided with the trimmer over the blades when not in use.
- Falling branches may fall onto the face or into the eyes, resulting in injuries, scratches, and cuts, and for this reason you should always be sure to wear a helmet and face protector when using your trimmer.

⚠ DANGER

This product is equipped with extremely sharp blades, and when used improperly these blades can be extremely dangerous. Improper handling can cause accidents, which may lead to serious injury or death. For this reason, you should always be careful to follow the following instructions when using your trimmer.

⚠ CAUTION

The thickness of branches, which may be cut using this trimmer, is limited to up to approximately 24 mm. Never try to cut branches thicker than this, as doing so may result in damage to the trimmer.

Warning Carbon Monoxide Poisoning

All engines produce carbon monoxide, a deadly, colourless, tasteless, and odourless gas that may be present even without visible exhaust. Dangerous levels can build up in enclosed or poorly ventilated areas.

Inhaling carbon monoxide can cause headaches, drowsiness, nausea, dizziness, confusion, and may be fatal. If symptoms occur, move to fresh air immediately and seek medical attention.

Preventing Carbon Monoxide Poisoning

- **Never** run the engine indoors, as carbon monoxide can reach dangerous levels quickly.
- **Do not** run the engine outdoors where exhaust may be drawn into a building.
- Avoid poorly ventilated outdoor areas where exhaust can become trapped (e.g. pits, valleys, or areas surrounded by hills).
- **Never** operate in enclosed or partially enclosed spaces (e.g. buildings, tents, carports, basements).
- Always direct the exhaust and muffler away from the operator.
- **Never** point the exhaust at anyone.
- Keep all people at a safe distance during operation.

Petrol Fires and Handling Fuel Safely

Fuel and fuel vapours are highly flammable. Never use fuel near any spark, flame, or potential ignition source (e.g. hot water systems, clothes dryers, or electric motors). Keep all flames and sparks away from the engine and fuel. Fuel fires spread quickly and are highly explosive.

Prevention of Petrol Fires

- **Never** fill the fuel tank indoors (e.g. garage, shed, house, porch).
- Always refuel outdoors in a well-ventilated area.
- **Never** add fuel or remove the fuel cap while the engine is running; allow the engine to stop and cool first.
- **Never** drain fuel in an enclosed area.
- Wipe up any spilled fuel immediately and allow vapours to dissipate before starting.
- Ensure the fuel cap is properly installed and tightened before use.
- **Do not** operate the engine if the fuel cap leaks; replace if necessary.
- **Never** smoke while refuelling.
- Use only approved, non-metal portable fuel containers to prevent static discharge.
- **Do not** store the engine indoors with fuel in the tank.
- Tighten the fuel cap vent securely during storage.
- **Never** pour or siphon fuel from the engine by mouth.
- Always have an adult fill the fuel tank.
- **Never** allow children, or anyone under the influence of drugs or alcohol, to refuel the engine.

Burns and Fires

The muffler, muffler guard and other parts of the engine become extremely hot during the operation of the engine. These parts remain extremely hot even after the engine has stopped.

Prevention of Burns and Fires

- **Never** remove the muffler guard from the engine.
- **Never** touch the muffler guard as it is extremely hot and will cause severe burns.
- **Never** touch parts of the engine that become hot after operation.
- Always keep materials and debris away from muffler guard and other hot parts of the engine to avoid fires.

⚠ CAUTION

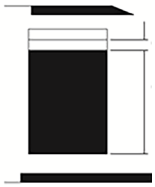
Hot gases are a normal by-product of a functioning catalytic converter. Follow all safety instructions to prevent burns and fires.

FUEL & OIL MIXTURE FOR 2-STROKE ENGINE

The 95 Octone or hieher fuel and oil mixture of 25:1

Fuel used for this model is a mixture of unleaded petrol and approved engine lubricant. When mixing petrol with 2-stroke engine oil, use only petrol which contains NO ETHANOL or METHANOL (types of alcohol). Use 95 octane or higher unleaded petrol known to be of good quality. This will help avoid possible damage to engine fuel lines and other engine parts.

Fuel mixed at a rate other than 25:1 may cause damage to the engine, ensure mixture ratio is correct.



⚠ WARNING

Petrol is highly flammable and explosive, and you can be burned or seriously injured when refuelling.

- Stop engine and keep heat, sparks and flame away.
- Refuel only outdoors.
- Wipe up spills immediately.

IMPORTANT: 2-stroke fuel may separate. Shake fuel container thoroughly before each use.

Stored fuel ages. Do not mix more fuel than you expect to use within a month.

IMPORTANT: Failure to follow proper fuel mix instructions may cause damage to the engine.

Adjusting Oil flow rate

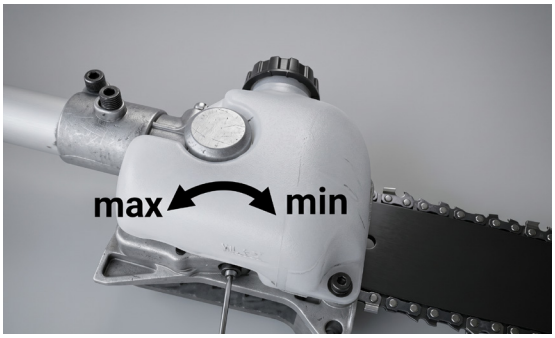
Never fill the oil reservoir nor adjust the oiler with the engine running.

Adjust the pump as follows:

1. Stop the engine and make sure the stop switch is in the “O” position.

2. Place the unit on its side with the oil reservoir up.

3. With a screwdriver, push in on the oil flow rate adjusting screw and turn in the desired direction.



⚠ CAUTION

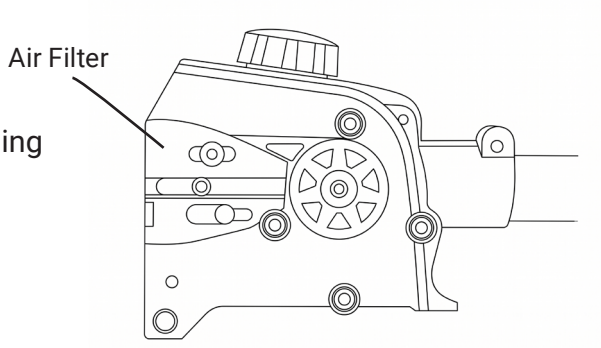
An increase in bar oil flow rate will speed oil consumption, requiring more frequent checks on the oil reservoir. To ensure sufficient lubrication, it may be necessary to check the oil level more frequently than at fuel tank refills.

The guide bar and chain are lubricated automatically by a pump that operates whenever the chain rotates. The pump is set at the factory to deliver a minimum flow rate, but it can be adjusted in the field. A temporary increase in oil flow is often desirable when cutting things like hardwood or wood with a lot of pitches.

The oil flow adjusting screw must be pressed in slightly in order to turn. Failure to do so could damage the pump and screw.

Oiling port

Dismount the guide bar and check the oiling port for clogging.

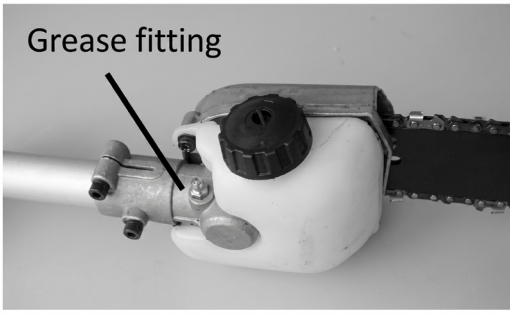


Transmission

The reduction gears are lubricated by multipurpose, lithium-based grease in the transmission.

Supply new grease every 25 hours of use or more often depending on the job condition.

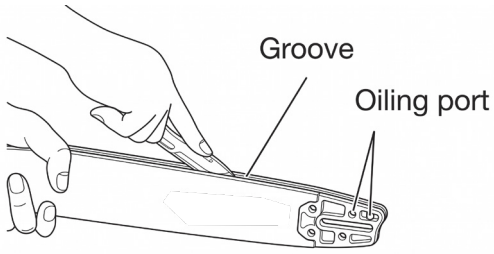
When adding lubricant, use a grease gun to insert lubricant into the three grease nipples located on the transmission.

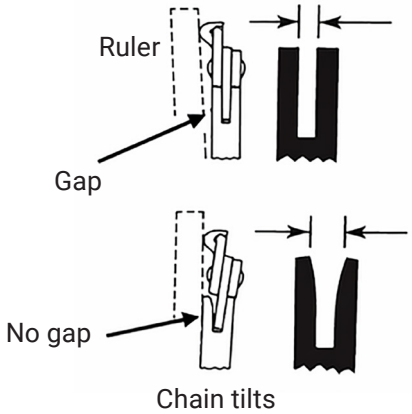


Guide Bar

Remove sawdust in the bar groove and the oiling port.

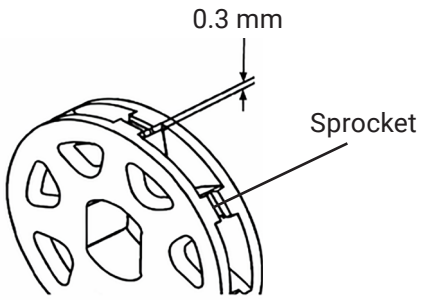
The bar rail should always be a square. Check for wear of the bar rail. Apply a ruler to the bar and the outside of a cutter. If a gap is observed between them, the rail is normal. Otherwise, the bar rail is worn. Such a bar needs to be corrected or replaced.





Sprocket

Check for extensive wear, and replace it when the teeth are worn over 0.3 mm.



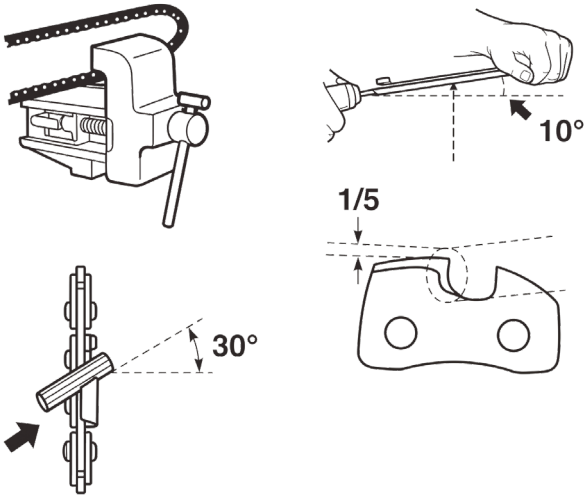
Chain

Your cutters need to be sharpened when:

- Sawdust becomes powder-like.
- You need extra force to saw in.
- The cut way does not go straight.
- Vibration increases.
- Fuel consumption increases.

⚠ CAUTION

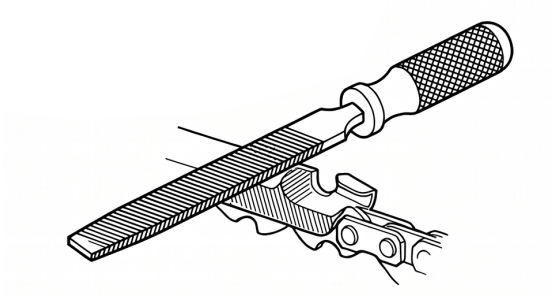
It is very important for smooth and safe operation to keep the cutters always sharp.



Cutting setting standards

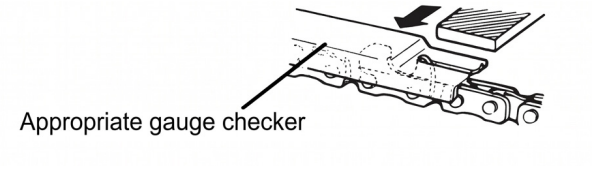
Before filing:

- Make sure the saw chain is held securely.
- Make sure the engine is stopped.
- Use a round file of proper size for your chain.
- Chain type : 91PJ
- File size : 5/32 in (4.0 mm)



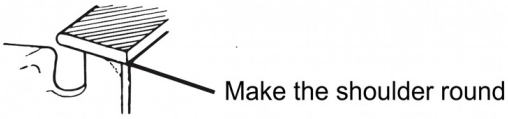
⚠ WARNING

Be sure to wear safety gloves.

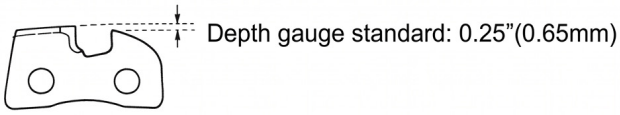


1. Place your file on the cutter and push straightforward.

2. Keep the file position as illustrated.

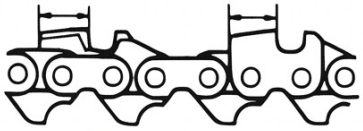


3. After every cutter has been set, check the depth gauge and file it to the proper level as illustrated.

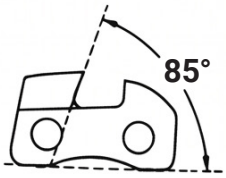


NOTE: Be sure to round off the front edge to reduce

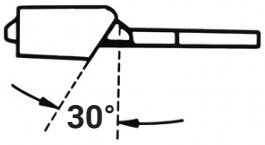
Make sure every cutter has the same length and edge angles as illustrated.



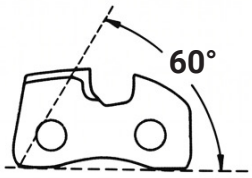
Cutter length



Side plate angle



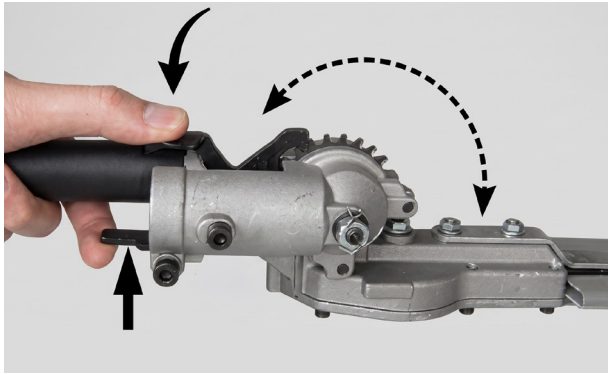
Filing angle



Top plate cutting angle

Adjusting the angle of the cutting blades

NOTE: Make sure you stop engine before changing the angle of the cutting blades.



1. Lift the lock lever and press down the adjusting lever.

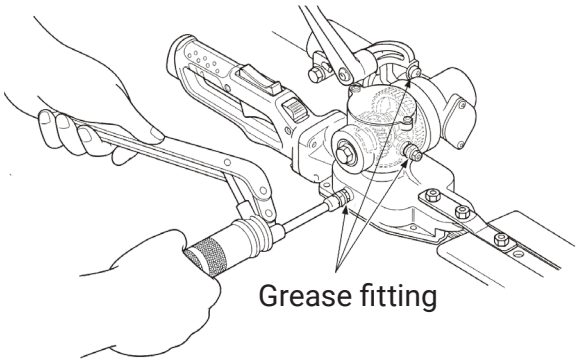
2. Adjust the angle of the blades to the desired angle and loose your hand.

Pole Hedger Transmission

The reduction gears are lubricated by multipurpose grease in the transmission.

Grease should be added every 25 hours of use or more often depending on the job condition.

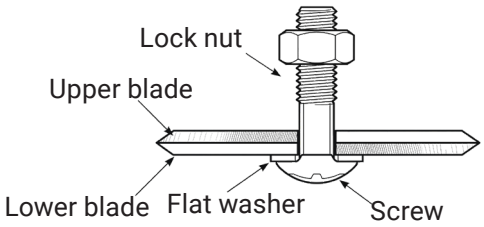
When adding lubricant, use a grease gun to insert lubricant into the three grease nipples located on the transmission.



Pole Hedger Blade

When refilling the tank or resting, it is often a good idea to use the time to oil the cutting blades.

If a gap exists between the upper and lower blades, follow the procedure below to adjust them so that they fit more closely together.



Tighten screw fully, and then turn one-third to one half of a rotation backward.

While holding onto the screw to keep it in position, tighten the lock nut.

Check to make sure that the flat washer is loose enough so that it may be turned by pressing on it with.

NOTE: Screwing in the screw too tightly may make it impossible for the blades to move. Conversely, not screwing in the screw tightly enough may make the blades of the trimmer feel dull and cause leaves and branches to become caught in the blades of the trimmer.

STARTING COLD ENGINE

1. Move the stop switch to the **START** position.

2. Press the primer bulb gently 7 to 10 times. Continue until you see fuel circulating through the bulb; this ensures the carburetor is ready to go.

3. Pull the choke lever UP to the **CLOSED** position. This restricts airflow to help the engine fire up when cold.

Note: If the engine is already warm from recent use, you can usually leave the choke open.

4. Slowly pull the starter handle until you feel slight resistance.

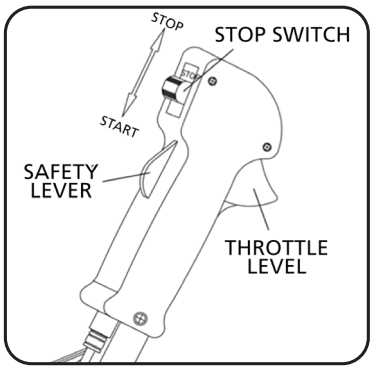
5. Give the cord a firm, swift pull. Continue until you hear the engine "cough" or "false fire" (a brief sound of ignition that doesn't stay running).

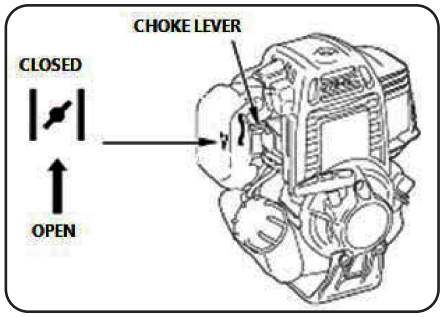
6. Once the engine has false-fired, pull the handle firmly again until the engine starts and stays running. Always guide the cord back gently rather than letting it snap against the housing.

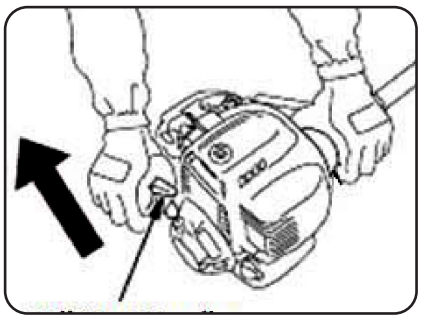
7. As the engine begins to fire and steady itself, slowly move the choke lever down to the **OPEN** position.

8. Let the engine idle and warm up for 2–3 minutes. This allows the oil and fuel to reach optimal operating temperature before you put the machine to work.

Pro Tip: If the engine doesn't start after 5–6 firm pulls with the choke closed, move the lever to the half-way point to prevent "flooding" the engine with too much fuel.







Control Positions (warm engine)

Set the throttle trigger to "fast idle".

Slide the ignition switch to the **"I" (START)** position.

Moving the choke lever down to the "**OPEN**" position

If the engine did not continue to run, repeat the appropriate cranking procedure (warm or cold engine).

When the engine starts, clear excess fuel from the combustion chamber by revving the engine several times with the throttle trigger (operating the trigger will automatically disengage the “fast idle” setting).

⚠ WARNING

The cutting attachment will engage and rotate as the engine starts and accelerates.

If The Engine Fails To Start

Repeat the appropriate cranking procedure (warm or cold engine). If the engine fails to start after repeated attempts, the engine is likely flooded. Proceed to the following procedure.

Starting A Flooded Engine

1. Disconnect the spark plug lead, and then use the spark plug wrench to remove the spark plug (turn counterclockwise to remove).

If the spark plug is fouled or soaked with fuel, clean the plug as necessary.

2. Open the choke and fully depress the throttle trigger with your left hand, then pull the starter handle rapidly with your right hand to clear excess fuel from the combustion chamber.

⚠ CAUTION

Incorrect spark plug installation can result in serious engine damage.

3. Reinstall the spark plug and tighten it firmly. If a torque wrench is available, torque the spark plug to **16.7-18.6 N.m**.

4. Repeat the starting procedure for a warm engine.

5. If the engine still fails to start, refer to the troubleshooting section near the end of this manual.

Stopping The Engine

1. **Cool the engine** by allowing it to idle for two or three minutes.

2. **Slide the ignition switch** to the “**o**” or **STOP** position.

⚠ WARNING

The cutting attachment can continue rotating after the engine is switched off!

POLE HEDGER OPERATION

- Ensure that no one is in your work area prior to use.
- Keep away from children and pets.
- Never hold the trimmer in a way in which the blades are pointed towards someone else.
- Never allow the blades to come into proximity with your body while the engine of the trimmer is in operation.
- Always be sure to turn off the engine before changing the angle of the blades, removing branches which have become stuck in the blades, or at any other time when coming into close proximity with the blades.
- Always wear work gloves made of leather or some other sturdy material when using the trimmer.
- Always place the blade cover provided with the trimmer over the blades when not in use.
- Falling branches may fall onto the face or into the eyes, resulting in injuries, scratches, and cuts, and for this reason you should always be sure to wear a helmet and face protector when using your trimmer.

⚠ DANGER

This product is equipped with extremely sharp blades, and when used improperly these blades can be extremely dangerous. Improper handling can cause accidents, which may lead to serious injury or death. For this reason, you should always be careful to follow the following instructions when using your trimmer.

⚠ CAUTION

The thickness of branches, which may be cut using this trimmer, is limited to up to approximately 24 mm. Never try to cut branches thicker than this, as doing so may result in damage to the trimmer.

MAINTENANCE

The Importance of Maintenance

Proper upkeep ensures safe, economical, and low-emission operation.

⚠ DANGER

Failure to perform maintenance or fix issues before use can lead to serious injury or death. Always follow the manual's schedule.

Service Guidelines

While the manual covers routine checks and basic repairs, complex tasks requiring special tools should be handled by a professional mechanic.

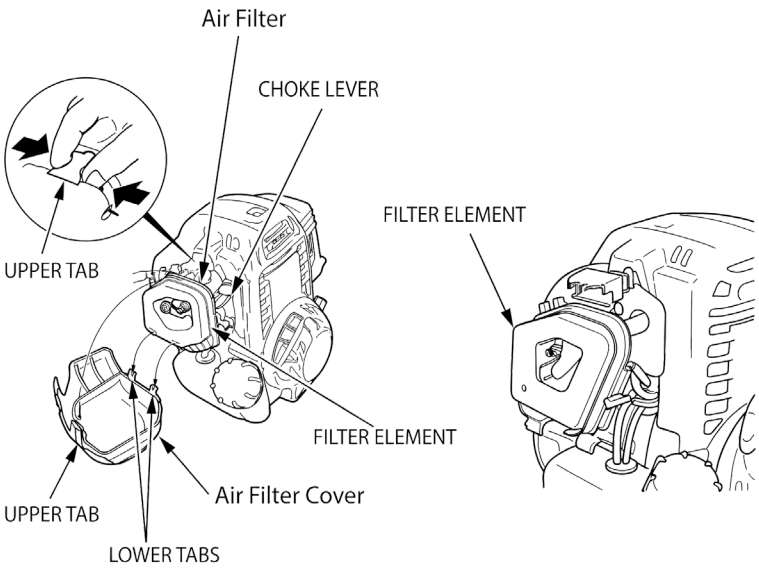
⚠ WARNING

- Stop the engine, disconnect the spark plug, and let the machine cool before servicing.
- Ensure you have the proper tools and skills before starting.
- Avoid fire risks: Keep fuel away from sparks/flames and never use petrol as a cleaning solvent.

Maintenance Schedule

		Each Use	3 mos or 25 hrs	6 mos or 50 hrs	12 mos or 100 hrs
Nuts & Bolt	**Check & Tighten**	**X**			
Fuel System	**Check for leaks**	**X**			
Transmission/Gearbox	**Check Operation**		**X**		
Transmission	**Grease**		**X**		
Spark Plug	**Clean & Gap**				**X**
Fuel Filter & Lines	**Check & Clean**		**X**		
Air Filter	**Check & Clean**	**X**	**X**		
	Replace				**X**

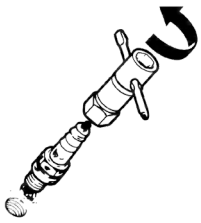
AIR FILTER

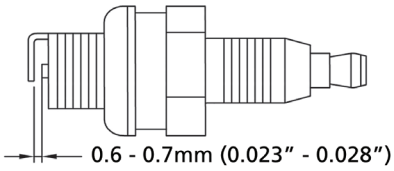


- Accumulated dust in the air filter will reduce engine efficiency. Increase fuel consumption and allow abrasive particles to pass into the engine. Remove the air filter as often as necessary to maintain in a clean condition.
- Light surface dust can readily be removed by tapping the filter. Heavy deposits should be washed out in suitable solvent.
- Remove filter cover by loosening air filter cover knob.

CHECK SPARK PLUG

- Do not attempt to remove the plug from a hot engine to avoid damaging the threads.
- Clean or replace the plug if fouled with heavy oily deposits.
- Replace the plug if the centre electrode is worn rounded at the end.
- Spark gap 0.6 - 0.7mm (.023” - .028”)
- Fastening torque = 145 - 155 kg.cm (125 -135 in.lb)





FUEL FILTER

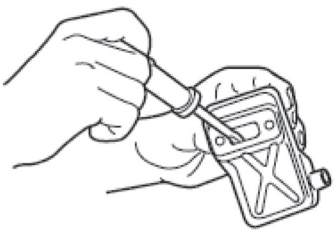
- Fuel tank is fitted with a filter.
- Filter is situated at the free end of fuel pipe and can be picked out through fuel port with a piece of hooked wire or something similar.
- When the inside of the fuel tank is dirty, it can be cleaned by rinsing the tank out with petrol.
- When filter is dirty, replace the filter.
- Check the fuel filter periodically. Do not allow dust to enter into fuel tank. A clogged filter will cause difficulty in starting engine or abnormalities in the engines performance.

ADJUSTING CARBURETTOR

NOTE: Do not adjust carburettor unless necessary. Improper adjustment may cause engine damage and void warranty.

MUFFLER

Remove the muffler, insert a screwdriver into the vent, and wipe away any carbon buildup. Wipe away any carbon buildup on the muffler exhaust vent and cylinder exhaust port at the same time.



⚠ WARNING

Inspect periodically, the muffler for loose fasteners, any damage or corrosion. If any sign of exhaust leakage is found, stop using the machine and have it repaired immediately.

Failing to do so may result in the engine catching on fire.

TROUBLE SHOOTING

ENGINE DOES NOT START

What to check		Possible Causes	Remedy
Does the engine crank?	NO →	Faulty recoil starter. Fluid in the crankcase. Internal damage.	Return unit to the dealer.
YES ↓			
Good compression?	NO →	Loose spark plug. Excess wear on cylinder, piston, rings	Tighten and re-test.
YES ↓			
Does the tank contain fresh fuel of the proper grade?	NO →	Fuel incorrect, stale, or contaminated. (2-stroke Engine) fuel mixture incorrect.	Refill with fresh fuel. Use 95 Octone or hight. (2-stroke Engine) petrol and engine oil 25:1 ratio
YES ↓			
Is fuel visible and moving in the return line when priming?	NO →	Check for clogged fuel filter and/or vent.	Clean as required; restart.
YES ↓			
Is there spark at the spark plug wire terminal?	NO →	The ignition switch is in “0” (Stop) position. Faulty ignition ground. Faulty transitor unit.	Move switch to “1” (Start) position and restart. Return unit to the dealer.
YES ↓			
Check the spark plug	NO →	If the spark plug is wet, excess fuel may be in the cylinder.	Crank the engine with the spark plug removed, replace the spark plug, and restart.
		The spark plug is foulded or improperly gapped.	Clean and re-gap the spark plug to 0.6-0.7mm. Restart.
		The spark plug is damaged internally or of the wrong size.	Replace the spark plug and restart.

ENGINE LACKS POWER

What to check	Possible Causes	Remedy
Is the engine overheating?	Operator is overworking the machine	Operate the machine at a slower rate.
	Carburetor mixture is too lean.	Return unit to dealer.
	Fan, fan cover, cylinder fins dirty or damaged.	Clean, repair or replace as necessary.
Engine is rough at all speeds. May also have black smoke and/or unburned fuel at the exhaust.	Clogged air cleaner element.	Move switch to “1” (Start) position and restart. Return unit to the dealer.
	Loose or damaged spark plug.	Ensure correct spark plug in use. Crank the engine with the spark plug removed, replace the spark plug, and restart.
	Air leakage or clogged fuel line.	Clean and re-gap the spark plug to 0.6-0.7mm. Restart.
	Water in the fuel.	Replace the spark plug and restart.
	Piston seisure.	Return unit to dealer.
	Faulty carburetor and/or diaphragm.	Return unit to dealer.
Engine is knocking	Overheating condition.	See above.
	Improper fuel.	Ensure 95 Octone or higher fuel in use. (2-stroke Engine) petrol and engine oil 25:1 ratio
	Carbon deposits in the combustion chamber.	Decarbonise.

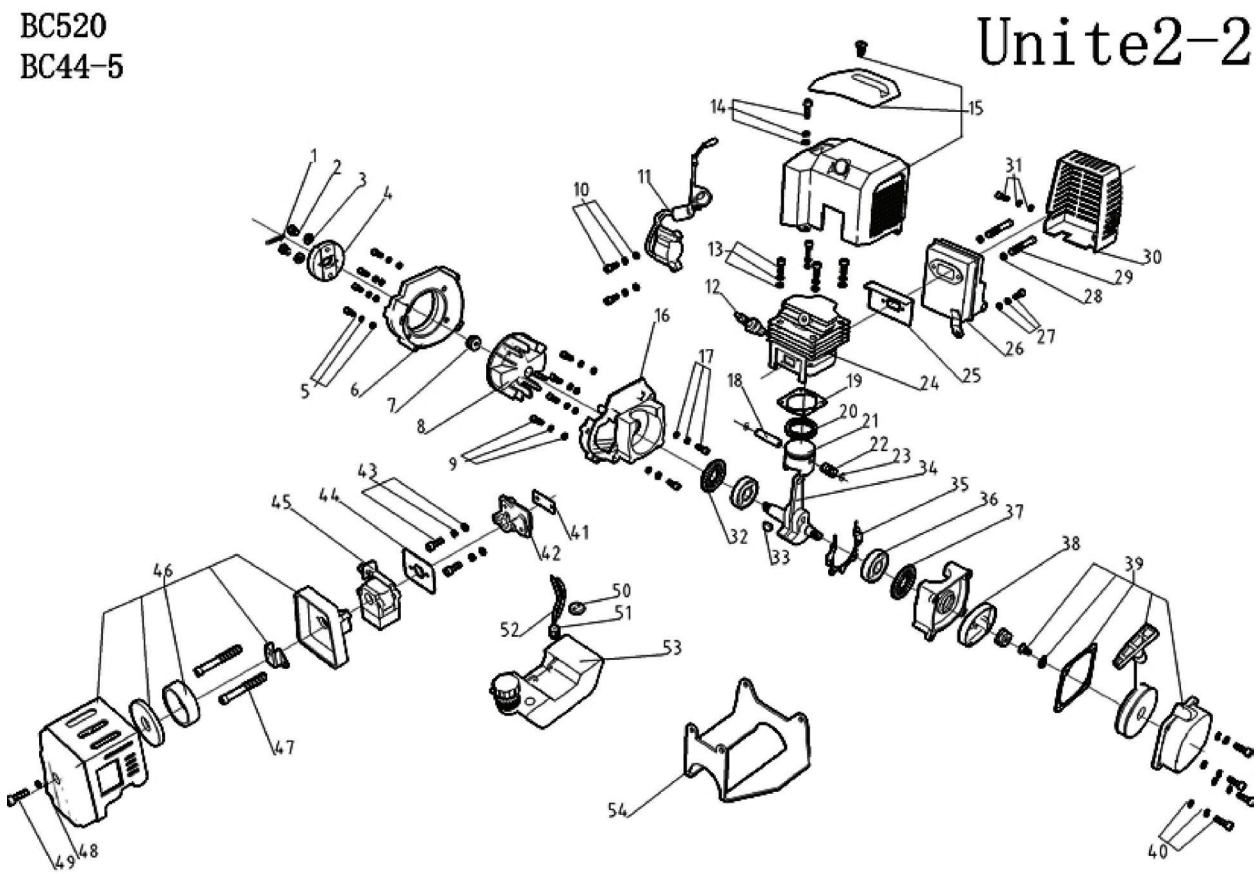
ADDITIONAL PROBLEMS

What to check	Possible Causes	Remedy
Poor acceleration.	Clogged air cleaner element.	Clean the air cleaner element.
	Clogged fuel filter.	Replace the fuel filter.
	Carburetor mixture too lean.	Return the unit to the dealer.
	Idle speed set too low.	Adjust 2750 min^3 (±250)
Engine stops abruptly.	Switch turned off.	Reset the switch to start positoin.
	Fuel tank empty.	Refuel 95 Octone or higher. (2-stroke Engine) petrol and engine oil 25:1 ratio
	Clogged fuel strainer.	Replace strainer.
	Water in the fuel.	Drain; replace with clean fuel.
	Shorted spark plug or loose terminal.	Ensure correct spark plug in use. Clean and replace spark plug, tighten the terminal.
	Ignition failure.	Replace the ignition unit.
	Piston seizure.	Return unit to the dealer
Engine difficult to shut off.	Ground (stop) wire is disconnected, or switch is defective.	Test and replace as required.
	Overheating due to incorrect spark plug.	Clean and regap to 0.6-0.7mm.
	Overheated engine.	Idle engine until cool.

What to check	What to check	What to check
Cutting attachment rotates at engine idle. →	Engine idle too high.	Set idle: 2750 min^3 (±250)
	Broken clutch spring or worn clutch spring boss.	Replace clutch assembly as requireed, check ideal speed.
	Loose attachment holder.	Inspect and re-tighten holders securely.
Excessive vibration. →	Warped or damaged attachment.	Inspect and replace attachment as required.
	Loose gear case.	Tighten gear case securely.
	Bent main shaft/worn or damaged bushings.	Inspect and replace as necessary.
Attachment will not rotate. →	Shaft not installed in power head or gear case.	Inspect and reinstall as required.
	Broken shaft.	Return unit to the dealer.
	Damaged gear case.	Return unite to the dealer.

SPARE PARTS LIST

52CC ENGINE

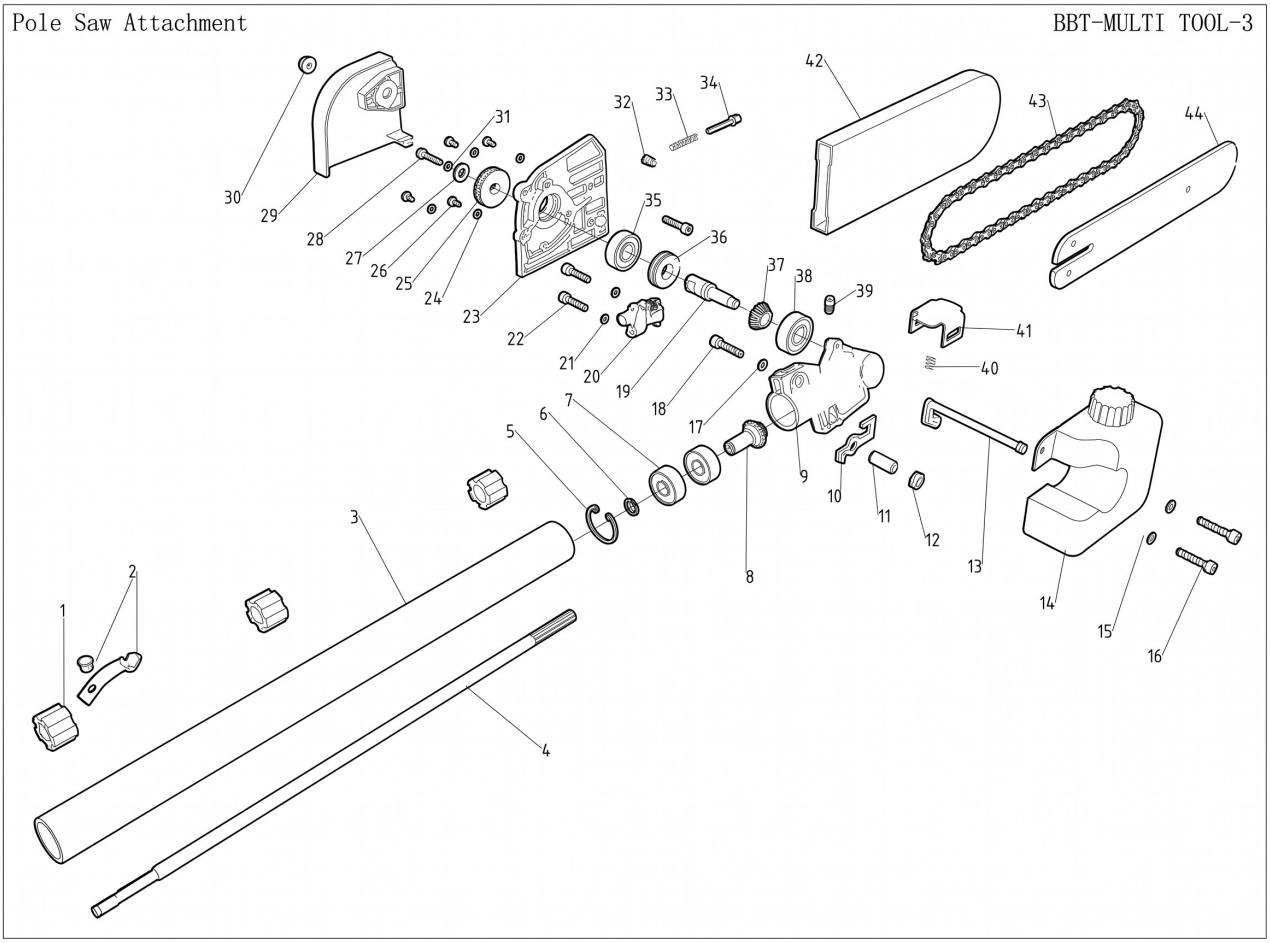


NO	DESCRIPTION	QTY
1	CLUTCH SPRING	1
2	CLUTCH BOLT M8	2
3	WASHER M8	2
4	CLUTCH	1
5	BOLT SET M5 X 20	4
6	FLYWHEEL COVER	1
7	FLANGE NUTS M8	2
8	FLY WHEEL	1
9	BOLT SET M5 X 35	4
10	BOLT SET M5 X 20	2
11	COIL	1
12	SPARK PLUG	1
13	BOLT SET M5 X 25	4
14	BOLT SET M5 X 12	1
15	COVER	1
16	BODY	1
17	BOLT SET M5 X 20	2
18	PISTON PIN	1

NO	DESCRIPTION	QTY
19	CYLINDER GASKET	1
20	PISTON RING	2
21	PISTON	1
22	PISTON NEEDLE 10 X 13 X 16	1
23	PISTON SPRING	2
24	CYLINDER HEAD	1
25	MUFFLER GASKET	1
26	MUFFLER	1
27	BOLT SET M5 X 12	1
28	WASHER M6	2
29	BOLT M6 X 55	2
30	COVER	1
31	BOLT SET M5 X 12	1
32	BIG OIL SEAL	1
33	WOODRUFF KEY 3 X 12	1
34	CRANKSHAFT	1
35	BODY GASKET	1
36	BEARING 6202	2

NO	DESCRIPTION	QTY
37	SMALL OILSEAL 12 X 22 X 7	1
38	PAWL	1
39	PULL START ASSY	1
40	BOLT SET M5 X 20	4
41	CARBY MOUNT GASKET	1
42	CARBY MOUNT	1
43	BOLT SET M5 X 25	2
44	CARBURETTOR GASKET	1
45	CARBURETTOR	1
46	AIR FILTER ASSY	1
47	BOLT M5 X 55	2
48	WASHER M5	1
49	BOLT M5 X 16	1
50	FUEL PIPE SEAL	1
51	FUEL FILTER	1
52	FUEL PIPE	2
53	FUEL TANK	1
54	FUEL TANK GUARD	1

POLE CHAINSAW ATTACHMENT

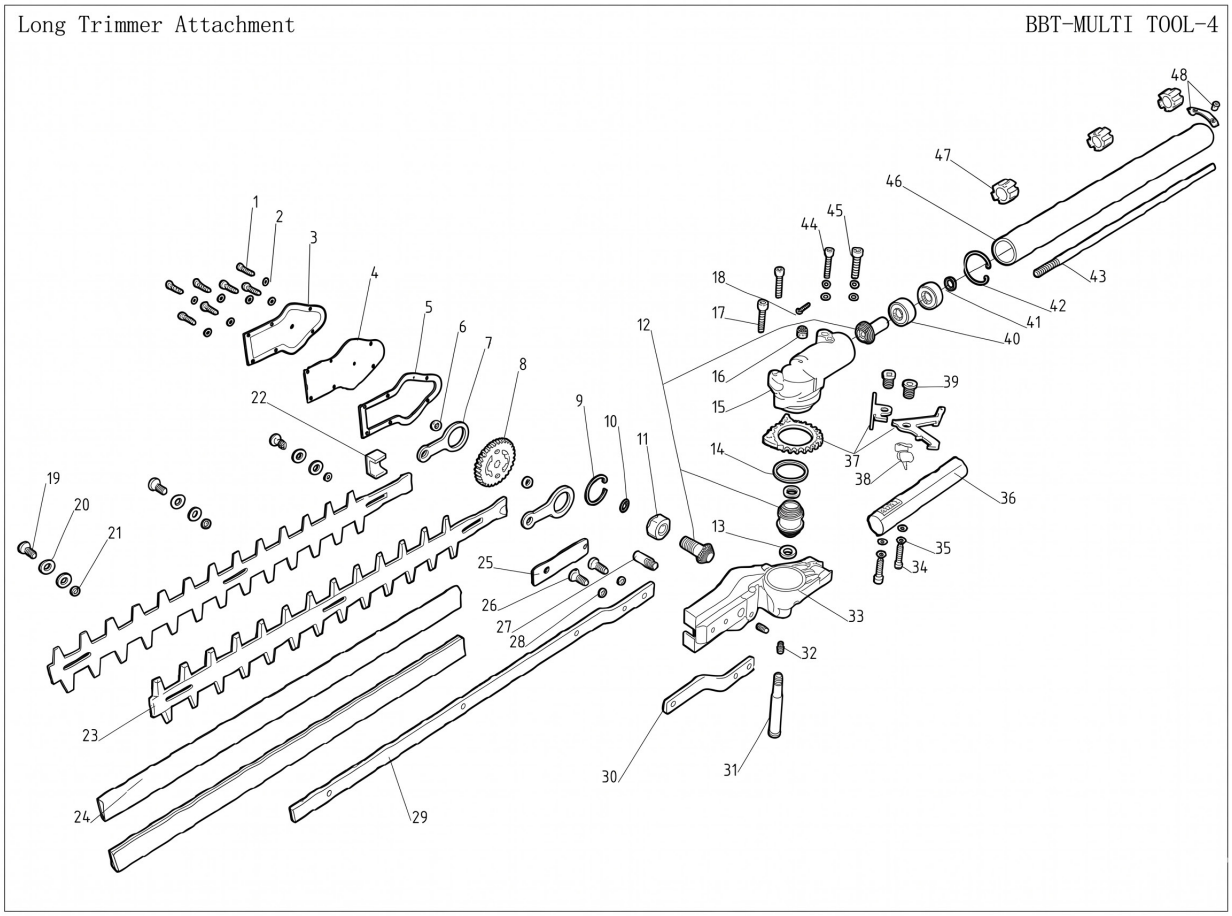


NO	DESCRIPTION	QTY
1	Oil-Retaining Bearing	3
2	Liu Nails	1
3	Aluminium Pole 745	1
4	Drive Shaft 762	1
5	Snap Ring	1
6	Snap Ring	1
7	Bearing 609z	2
8	Gear	1
9	Gearbox	1
10	Lock Blocks	1
11	Pin Set	1
12	Nut	1
13	Oil Tank Pipe	1
14	Oil Tank	1
15	Flat Mat	2

NO	DESCRIPTION	QTY
16	Bolt	2
17	Flat Mat	1
18	Bolt	2
19	Output Shaft	1
20	Oil Pump	1
21	Spring Gasket	2
22	Bolt	2
23	Gearbox Cover	1
24	Spring Gasket	4
25	Sprocket	1
26	Screw	4
27	Flat Mat	1
28	Bolt	1
29	Side Cover	1
30	Flange Nuts	1

NO	DESCRIPTION	QTY
31	Spring Gasket	1
32	Pin	1
33	Spring	1
34	Screw	1
35	Bearing 6001rs	1
36	Worm	1
37	Gear	1
38	Bearing	1
39	Brass Nozzle	1
40	Spring	1
41	Linking Piece	1
42	Bar Cover	1
43	Chain	1
44	Bar	1

POLE HEDGER ATTACHMENT



NO	DESCRIPTION	QTY
1	Bolt	7
2	Spring Gasket	7
3	Up Cover	1
4	Down Cover	1
5	Body Gasket	1
6	Block Circle	2
7	Collar	2
8	Big Gear	1
9	Snap Ring	1
10	Snap Ring	1
11	Bearing	1
12	Gear Set	1
13	Gasket	2
14	"O" Gasket	1
15	Gearbox	1
16	Nut	1

NO	DESCRIPTION	QTY
17	Bolt	2
18	Pin	1
19	Bolt	3
20	Gasket	6
21	Nut	3
22	Gasket	1
23	Blade	2
24	Blade Cover	2
25	Spring Iron	1
26	Bolt	2
27	Fixed Shaft	1
28	Nut	2
29	Blade Stents	1
30	Blade Cover	1
31	Shaft	1
32	Brass Nozzle	2

NO	DESCRIPTION	QTY
33	Gearbox	1
34	Bolt	2
35	Spring Gasket	4
36	Handle Assy	1
37	Gear Set	1
38	Spring	1
39	Bolt	2
40	Bearing	2
41	Snap Ring	1
42	Snap Ring	1
43	Drive Shaft	1
44	Bolt Set	1
45	Bolt Set	1
46	Aluminium Pole745	1
47	Oil-Retaining Bearing	3
48	Liu Nails	1

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 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

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