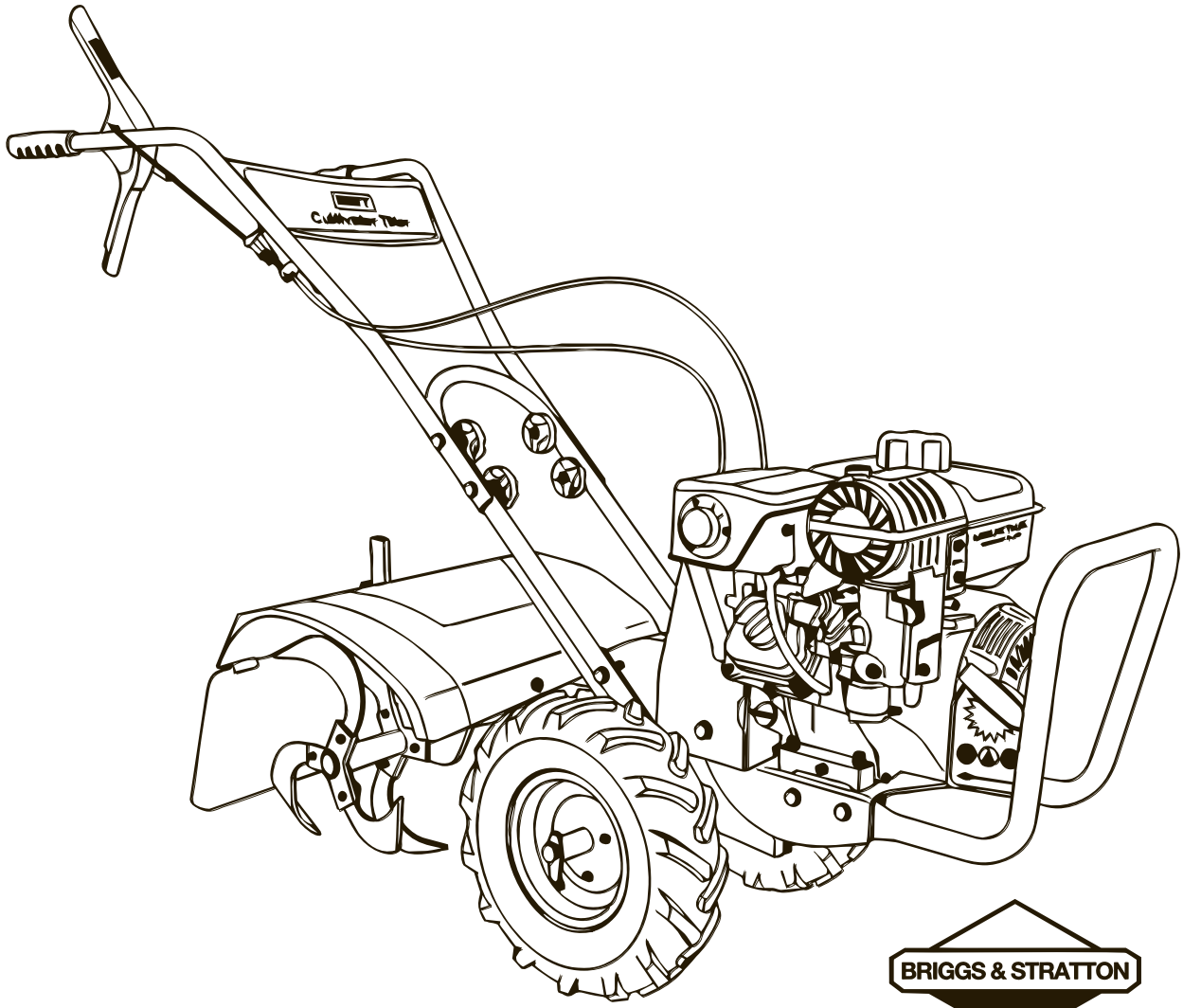
BBT AUSTRALIA

Cultivator / Tiller



BRIGGS & STRATTON

OWNER'S MANUAL

TILL65-BS

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 manufactures instructions for data relative to its safe operation.



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

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

⚠ DANGER	**DANGER** indicates a hazardous situation which, if not avoided, will result in serious injury or death.
⚠ WARNING	**WARNING** indicates a hazardous situation which, if not avoided, could result in serious injury or death.
⚠ CAUTION	**CAUTION** indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

ADDITIONAL INFORMATION AND POTENTIAL CHANGES

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

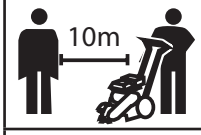
⚠ WARNING

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

SAVE THESE INSTRUCTIONS!

HAZARDS SYMBOLS

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

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

GENERAL SAFETY

» **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 refuelling 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

» **Safety Features:** Ensure all guards and safety devices are attached and functional.

» **Environment:** Carefully inspect the area to be tilled and remove all foreign objects. Do not till above underground water lines, gas lines, electric cables, or pipes. Do not operate the tiller in soil with large rocks and foreign objects which can damage the equipment.

» **Engage the wheel lock pin:** Never start the engine or operate the tiller with the wheels in the free-wheel position. Make sure the wheel lock pins are engaged through the wheel hubs and wheel axle. The wheels act as a brake to keep the tiller at a controlled speed. Disengage wheel lock pins to permit free-wheeling only when engine is stopped.

» **Safety Precautions:** Keep hands away from moving parts and never attempt to operate the controls with your feet. Do not start the engine until the machine is in the cutting position next to the stump. Do not overreach.

» **Overreaching:** Keep proper footing and balance at all times. This allow better control of the machine in unexpected situations.

» **Positioning:** When using the machine, **DON'T STAND IN FRONT OF THE CUTTING WHEEL. PLEASE STAND IN THE HANDLE SIDE, DO NOT EXCEED THE PROTECTIVE AREA BEFORE MAKE SURE THE THROTTLE IS IN THE SLOW SPEED POSITION**.

» **Operation:** Blades and wheels rotate when the tiller is engaged in forward or reverse. In forward, blades and wheels rotate when the drive safety control lever (FORWARD) is pushed down toward the handlebar. In reverse, wheels and blades rotate when the drive safety control lever (REVERSE) is pulled back toward the operator. Releasing the reverse handle to the neutral position stops the wheels and blades. Do not operate both drive

safety control levers at the same time.

» **Reverse Operation:** Be extremely cautious when operating in reverse. Take extra care to avoid slipping or falling, and keep hands and feet clear of Blades.

» **Hidden Hazards:** Use extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.

» **Clogged Blades:** If vegetation clogs the Blades, raise the handlebars to elevate the Blades, and run the tiller in reverse. If this does not clean clogged vegetation from the Blades, STOP THE ENGINE AND DISCONNECT THE SPARK PLUG WIRE before removing vegetation by hand.

» **Hot Muffler:** Engine muffler will be hot from operation. Do not touch it with bare skin or a severe burn may result.

» **Vibration:** If the unit should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.

» **Exhaust Fumes:** Do not run the engine indoors; exhaust fumes are deadly.

» **Capacity:** Do not overload the machine capacity by attempting to till too deep at too fast a rate.

» **Transport:** Never operate the machine at high transport speeds on slippery surfaces. Look behind and use care when backing.

» **Attachments:** Use only attachments and accessories approved by the manufacturer of the tiller.

» **Visibility:** Never operate the tiller without good visibility or light.

» **Hard Ground:** Be careful when tilling in hard ground. The blades may catch in the ground and propel the tiller backward. If this occurs, let go of the handlebars and do not restrain the machine.

» **Precautions:** Take all possible precautions when leaving the machine unattended. Disengage all control levers, stop the engine, wait for all moving parts to stop, and make certain guards and shields are in place.

» **Leaving Position:** When leaving the operating position for any reason:

  » shut off the engine.

  » wait for all moving parts to stop.

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 flue, 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.

ASSEMBLY

The tiller is delivered partially assembled. There are still some parts need to be mounted.

Parts Identification



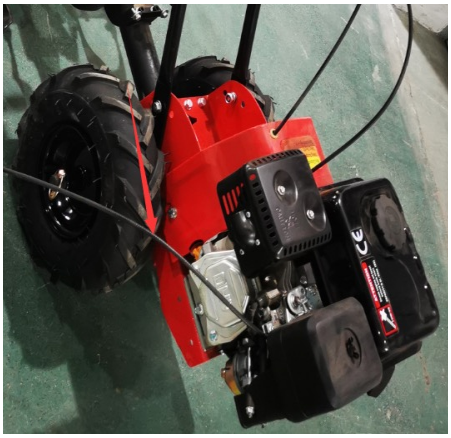
No.	Name	No.	Name
1	Engine /main part/transmission box/ handle lower arm	5	Depth Adjuster
2	Blade Set	6	Mudguard
3	Wheel	7	Exhaust Grille (depends on different engine brand, this part number may not exist separately)
4	Handle Upper Arm		

Step 1. Mounting Wheels

There is an arrow on the wheels to indicate how the wheels should be mounted. You must mount the wheels with the arrow pointing to the forwarder with the ring lock down.





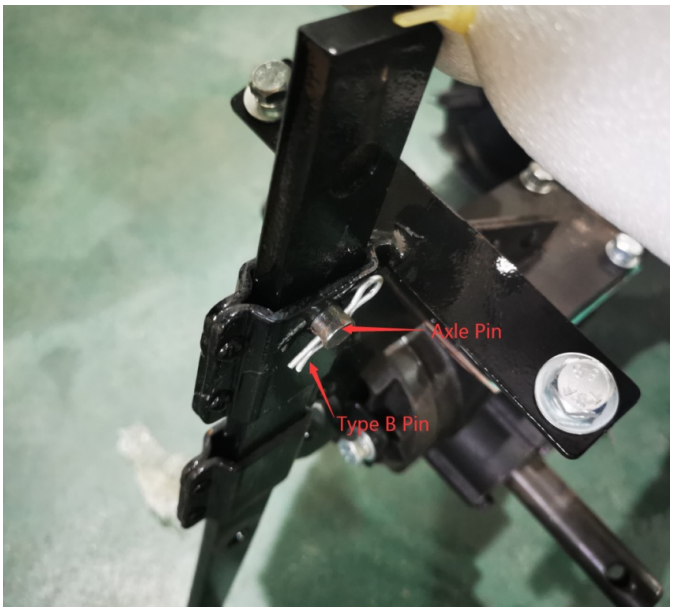


Step 2. Set Depth Control

Mount the depth adjuster to the depth adjuster holder and secure with the Axle Pin and Type B Pin (which attached on the main machine).

The depth adjuster should touch the ground.





Note:

Depth control down = shallow plowing

Lock the depth adjuster on the lowest hole for shallow plowing.

Depth control up = deep plowing

Tighten the depth adjuster on the toppest hole for deep plowing.

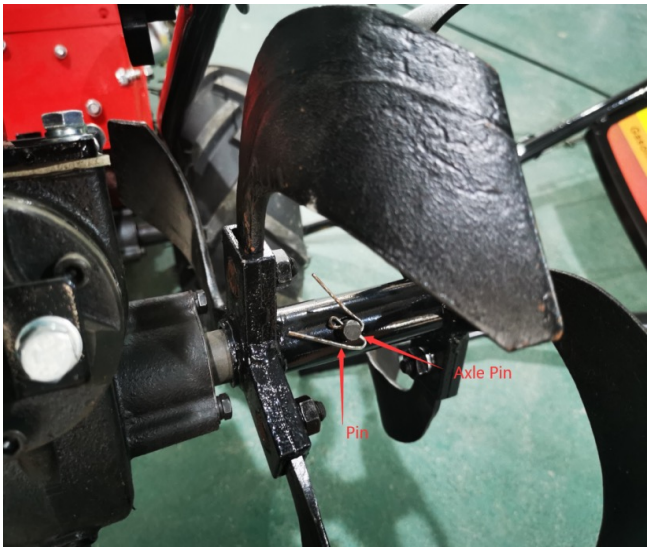
Warning: Only adjust the depth adjuster when the tiller is turned off.

Warning: Always set the depth adjuster to the transport position when turning on the machine.

Step 3. Install the Blade Sets

First check the blade sets sharper side forwarder as attached photo and fixed with pins and axle pins.





Replace the Blade Sets

Remove the locking pin to remove the cutter block from the shaft.

Loosen the bolt and remove the blade.

Place the new blade in the recess and fasten it.



Step 4. Mounting handles

The handles are mounted on the outside of the transmission cover. There are 3 holes on the hood. The handle can be mounted in 3 positions.

Move the bolts on the normally middle hole on transmission cover, and upper the handle arm, fixed the lower handle arm with washer, spring and bolts.




Move the Knobs on the handle lower arm, and place the handle upper arm outside the lower arm and align the holes and fixed with knobs.




Tighten all screws securely.

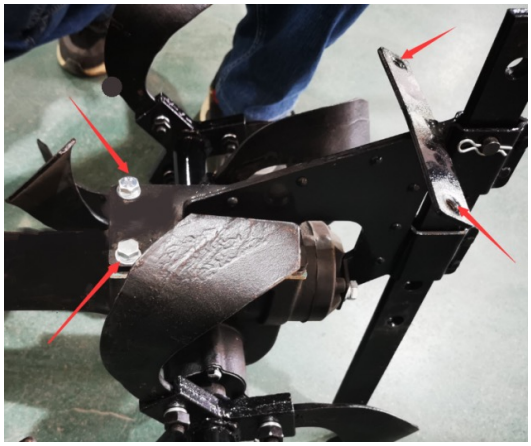
Step 5. Fixed Remote Throttle Switch (If have)

Fixed the remote throttle switch on the left handle position.



Step 6. Install the mudguard

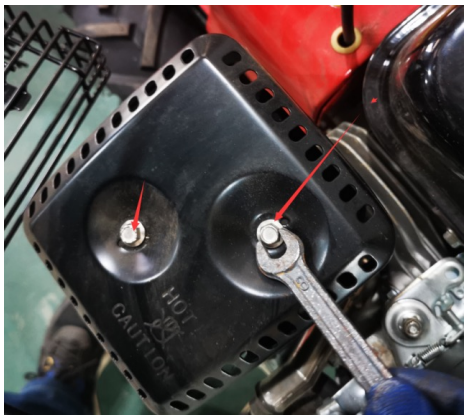
Move the bolts on the four position as attached on the upper position of the transmission box, and put the mudguard as attached position, fixed with bolts, screwed.





Step 7. Assembly the grille for exhaust (depends on different engine brand, this step may not be asked)

Moving these two bolts on the exhaust of engine, and put the grille on and fixed.



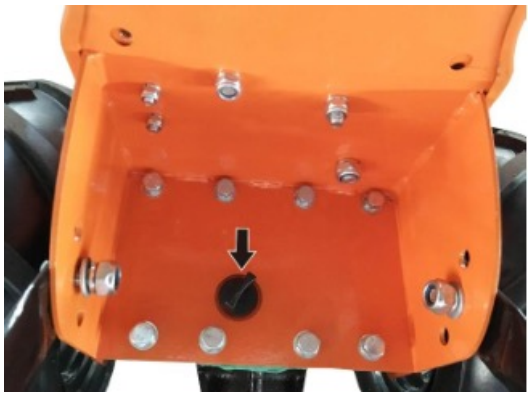
Oil

The tiller is supplied without oil and gasoline. Before use, engine oil and gasoline must be added.

Use engine oil such as 10W30. Make sure the oil level is correct, but not overfill it. Check the oil level before each use. The engine oil can be topped up on both sides of the machine. The opening of the oil tank can be recognized by the yellow filler cap.



For the transmission oil, which is special oil for the transmission box. It is normally full from the supplier, so when transport please check the black filler cap tighten.



OPERATION

PRE-START INSPECTION

1. Make sure the tiller is fully assembled and equipped with all safety guards.
2. Check the oil level for the engine oil and transmission oil.
3. Check that the air filter is clean. If necessary, clean the air filter.
4. Make sure the spark plug is installed
5. Check whether the wheels are in the correct position and secured.
6. Check depth adjuster.
7. Check that there are no oil leaks or fuel leaks under the machine.
8. Check the fuel hoses for leaks.
9. Check the engine for any damage or defects.
10. Remove debris from exhaust and recoil starter.

⚠ WARNING Do not start the engine before reading the manual carefully.
Before every start, you have to do the preparation again. Warning! Gasoline is highly flammable. Never fill the fuel tank when the tiller is hot or running. Always fill the fuel tank outdoors. Warning! The wheels must always be locked when the engine is running. Never work with the tiller if the wheels are not locked. Put the wheels in the correct position before starting. Warning! Move the depth adjuster to the transport position before use. The blades must not touch the ground. Warning! The tiller is supplied without engine oil and gasoline. Before, use, engine oil and gasoline must be added. Warning! Always keep hands and feet from moving parts.

START-UP

The controls required to start and run the tiller are located on the engine and are marked “choke” and “Throttle”.

Starting a cold engine

1. Set the on/off switch to “on”.
2. Move the choke lever to full position.
3. Move the throttle lever to “start” position.
4. Slowly pull the recoil starter until you feel resistance, then pull it on with force. And let it return normally.
5. When the engine start, gradually move the choke lever to “no choke” position and increase the throttle speed.

Start a warm engine

1. The choke does not need to be adjusted to start a warm engine.
2. Move the throttle to “start” position.
3. Pull starting rope out rapidly until engine starts. Allow rope to return normally. Repeat until engine starts.
4. Adjust throttle speed to “high” for best tiller action.

IDLE SPEED

Use the “low” position on the throttle lever to reduce stress on the engine when tilling is not being performed. Lowering the engine speed to “idle” will help extend the life of the motor, as well as conserve fuel and reduce the noise level of the equipment.

Operating speed

For normal tilling, set the throttle lever to “fast”.

TURN OFF THE ENGINE

To stop the engine at any time, turn engine ON/OFF switch to the off position. To stop wheels and Blades at any time, release drive safety control levers to neutral position.

TILLING

1. Adjust the depth regulator lever to desired tilling depth.

NOTE: Raise depth adjuster up one hole at a time, testing tiller operation after each raise. Raising depth adjuster too high can result in loss of control of tiller!

2. Move the throttle control to fast.

3. Place the tiller in forward by pushing down on the drive safety control lever (FORWARD)--this will engage the wheels and Blades.

NOTE: You can slow the tiller’s forward advance at any time by putting slight downward pressure on the handlebars. You can stop the tiller by releasing the drive safety control levers to the neutral position.

⚠ WARNING

TEMPERATURE OF MUFFLER AND NEAR BY AREAS MAY EXCEED 150° F. AVOID THESE AREAS.

DO NOT MOVE CHOKE CONTROL TO CHOKE TO STOP ENGINE. BACKFIRE OR ENGINE DAMAGE MAY OCCUR.

TO STOP WHEELS AND TINES AT ANY TIME, RELEASE DRIVE SAFETY CONTROL LEVERS TO NEUTRAL POSITION.

ALWAYS RELEASE DRIVE SAFETY CONTROL LEVERS TO NEUTRAL POSITION BEFORE ADJUSTING THE DEPTH OF THE REGULATOR LEVER.

⚠ DANGER

ENGINE AND SURROUNDING PARTS BECOME EXTREMELY HOT DURING NORMAL USE AND WILL CAUSE SERIOUS BURN INJURIES IF TOUCHED BEFORE THE ENGINE HAS COOLED.

ALLOW ENGINE TO COOL COMPLETELY BEFORE TOUCHING THESE HOT SURFACES.

IMPORTANT

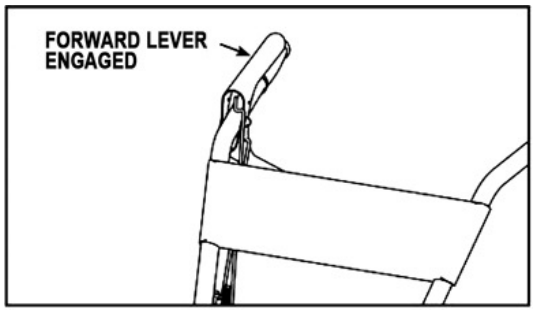
PRACTICE OPERATING THE CONTROLS AND TILLER WITH TINES OUT OF GROUND BEFORE BEGINNING TO TILL. IT IS IMPORTANT THAT YOU KNOW HOW TO USE THE TILLER PROPERLY, KEEP CONTROL AT ALL TIMES, STOP THE TINES AND WHEELS FROM TURNING, AND STOP THE ENGINE IF NECESSARY. IF YOU DO NOT KNOW HOW TO DO THESE THINGS, READ THE CONTROLS, ADJUSTMENTS AND SAFETY SECTIONS BEFORE PROCEEDING.

DRIVE SAFETY CONTROL LEVERS

FORWARD LEVER

Engages wheels and Blades into forward.

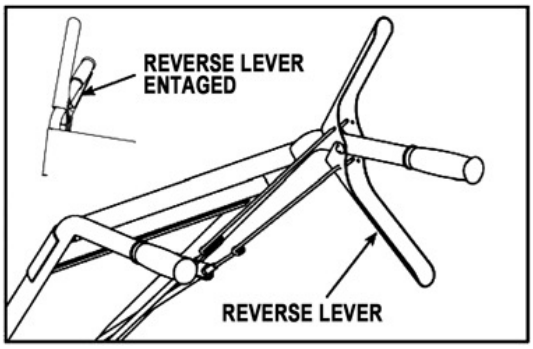
Pushing down the drive safety control lever (FORWARD) toward the handlebar engages the wheels and Blades. Releasing the lever stops the wheels and Blades and brings the tiller to a complete stop.



REVERSE LEVER

Engages wheels and Blades into reverse.

Pulling the drive safety control lever (REVERSE) toward the handlebar reverses tiller. Releasing the lever stops the wheels and Blades.



⚠ CAUTION

DO NOT OPERATE BOTH "FORWARD" AND "REVERSE" DRIVE SAFETY CONTROL LEVERS AT THE SAME TIME.

THIS INFORMATION IS PROVIDED HERE ONLY TO INTRODUCE THE CONTROLS. DO NOT START THE ENGINE AT THIS TIME. STARTING AND OPERATING INSTRUCTIONS ARE GIVEN ON PAGE ??. PLEASE READ THIS SECTION AND ALL OPERATING AND SAFETY INSTRUCTIONS BEFORE STARTING YOUR TILLER.

- **AS A SAFETY PRECAUTION, THE DRIVE SAFETY CONTROL LEVERS WILL NOT LOCK IN THE FORWARD OR REVERSE POSITION.**
- **AS A SAFETY PRECAUTION, THE REVERSE DRIVE SAFETY CONTROL LEVER WILL NOT LOCK IN REVERSE.**
- **TO STOP THE WHEELS AND TINES AT ANY TIME RELEASE THE DRIVE SAFETY CONTROL LEVERS OR RELEASE THE REVERSE HANDLE.**
- **DO NOT OPERATE BOTH THE REVERSE AND FORWARD DRIVE SAFETY CONTROL LEVERS AT THE SAME TIME.**

ADJUSTMENTS

⚠ WARNING

ENGINE SHOULD BE OFF BEFORE ADJUSTING ANY CONTROLS.

EXTREME CAUTION SHOULD BE USED WHEN OPERATING ROTOTILLER IN THE REVERSE DIRECTION.



WHEEL LOCK PINS

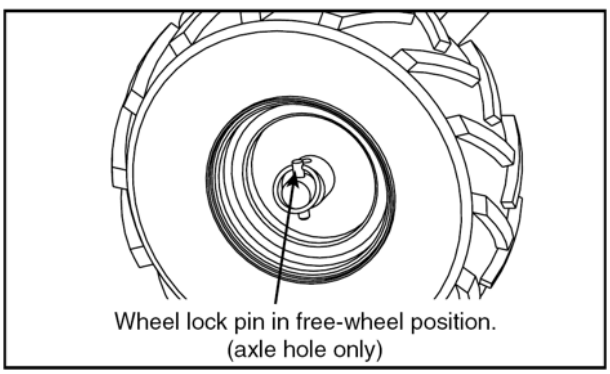
Place wheels in tilling position.

1. Remove lock pin. Align hole in axle with hole in wheel hub.
2. Insert lock pin through holes, fold lock pin ring to secure pin to axle.
3. Firmly lock wheel and axle together before tilling.
4. Repeat for other wheel.

NOTE: Always have both wheel lock pins in or out. Do not operate tiller with only one wheel locked.

To place wheels in free-wheel position.

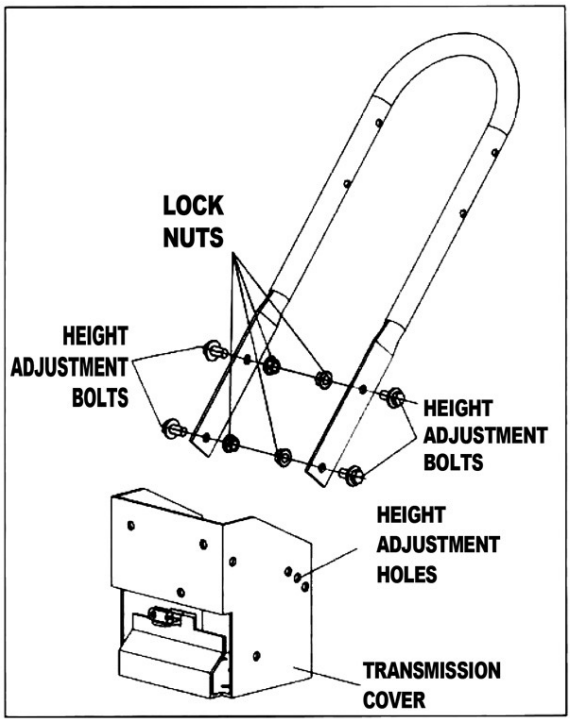
1. Remove lock pin. Slide wheel inward toward machine.
2. Insert pin in axle only.
3. Wheel should turn freely on axle.


Wheel lock pin in free-wheel position. (axle hole only)

HANDLEBAR HEIGHT ADJUSTMENT

The ideal height of the handlebar varies with operator height and the depth of tilling. To adjust handlebar height:

1. Unscrew nuts and remove top and bottom bolts on each side.
2. Align handlebar to desired holes on the lower handlebar mount.
3. Install bolts and nuts. Retighten.



DEPTH REGULATOR LEVER

Tilling depth is controlled by the height of the depth regulator lever. To adjust tilling depth:

⚠ WARNING

DO NOT ADJUST TILLING DEPTH UNLESS DRIVE SAFETY CONTROL LEVERS ARE RELEASED TO NEUTRAL POSITION.

ALWAYS SET THE DEPTH REGULATOR LEVER IN THE TRANSPORT POSITION BEFORE STARTING ENGINE, THAT IS, PLACE THE DETENT PIN IN THE HIGHEST HOLE OF THE DEPTH REGULATOR LEVER.

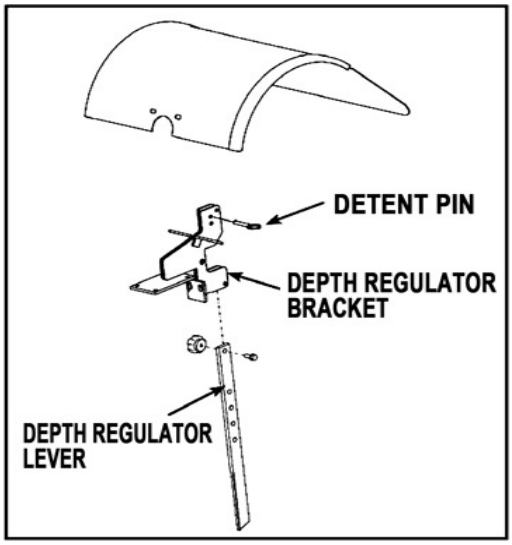
1. Remove detent pin.
2. Raise the depth regulator lever to position Blades at chosen tilling depth.
3. Align hole in depth regulator lever with hole in depth regulator bracket and replace detent pin.

Depth Regulator Lever Up = Shallower tilling.

Place the detent pin in the bottom hole of the depth regulator lever for shallowest tilling.

Depth Regulator Lever Down = Deeper tilling.

Place the detent pin in the top hole of the depth regulator lever for deepest tilling.



BELT TENSION ADJUSTMENT

Proper belt tension is critical to good performance. After 1/2 hour of operation, all cables may have to be adjusted due to initial stretch. Thereafter, check tension after every 2 hours of operation.

To increase belt tension:

1. Loosen upper jam nut. Turn nut up cable in 1/8” increments.
2. Tighten lower jam nut.
3. check adjustment.

This procedure can be repeated until conduit adjustment bolts are fully adjusted. If no more adjustment can be made, belt may have to be replaced.

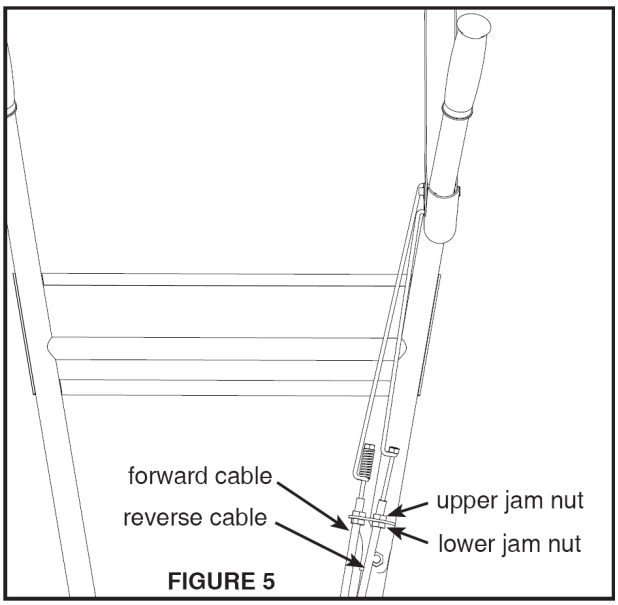


FIGURE 5

TILLING TIPS

The key to successful tilling is to begin with a shallow cut on the first pass, and then work an inch or two deeper on each successive pass.

» Tilling depth will vary with ground conditions.

» When beginning to till in unbroken ground or in extremely hard soil, set the detent pin in the highest hole of the drag stake (follow instructions under tilling section). This will allow for shallow tilling. With the drag stake in this position, make several light passes over the area to be tilled. Reset for deeper depths with successive passes.

» If tiller jumps or skids uncontrollably, lower the drag stake by placing the detent pin in a higher hole. This will allow for shallower tilling. Hold firmly to the handlebars to control sudden lurches.

» If weeds, tall grasses, vines, or other

materials clog or jam the Blades, reverse the tiller to unwind vegetation.

⚠ WARNING

EXTREME CAUTION MUST BE TAKEN IN SELECTING TILLING DEPTH. IF YOU ATTEMPT TO TILL TOO DEEPLY FOR SOIL CONDITIONS, THAT IS, WITH THE DRAG STAKE IN TOO HIGH A POSITION, LOSS OF CONTROL COULD RESULT.

IF REMOVING MATERIAL FROM THE TINES BY HAND, STOP ENGINE AND REMOVE SPARK PLUG WIRE FIRST.

Immediately release the drive control levers if the Blades jam or you strike a foreign object. With drive control levers in neutral position, push throttle control to stop position to stop the engine. Disengage the spark plug wire. When Blades have stopped, remove foreign objects and check for damage.

CULTIVATING TIPS

If you plan to use your tiller for cultivating:

» Plant rows on 20” - 22” centers for ease of turning.

» Set the depth regulator lever with the detent pin in one of the higher holes. This will allow for shallow cultivation necessary to turn over weeds, and break up and aerate the soil.

MAINTENANCE SCHEDULE

Please read this normal care schedule, and note the recommended care operating intervals to extend the life of your unit.

		Each use	1st month or 20 hrs	Every 3 months or 50 hrs	Every 6months or 100 Hours	Every year or 300 Hours
Drive Belt Tension	Check	*				
	Change	*				
Engine oil	Check level	*				
	Change		*		*	
Air filter	Check	*				
	Clean			*(1)	*(1)	
	Replace					*
Tiller Transmission Grease	Check	*				
	Replace			*		
Tire Pressure	Check	*				*
Tine Shaft	Clean	*				*
Wheel Axle Shaft	Lubricate			*		*

Service more frequently when used in dusty areas.

ENGINE MAINTENANCE

⚠ CAUTION

DO NOT OPERATE TILLER BEFORE READING THE ENGINE MANUAL PROVIDED IN THE PARTS PACKET.

Refer to the engine manual included in your parts packet for information on engine maintenance. Your engine manual provides detailed information and a maintenance schedule for performing the following tasks:

1. Check oil level before each use or after every 8 hours of operation.
2. Change oil after first 5-8 hours of operation. Change oil while engine is warm. Refill with new oil of recommended grade.
3. Check spark plug yearly or every 100 hours of operation.
4. Service air cleaner.
5. Keep engine and parts clean.
6. Check engine and equipment often for loose nuts and bolts, keep these items tightened.

IMPORTANT

ENGINE IS SHIPPED FROM FACTORY WITHOUT OIL. YOU MUST ADD ENGINE OIL BEFORE STARTING ENGINE.

CHECK OR FILL ENGINE CRANKCASE

1. Add oil according to engine manual. Do not overfill. Use clean, high quality detergent oil. Do not mix oil with gasoline. Oil level must be full. Check the oil level by removing oil fill plug. Oil level should be up to the bottom of the fill plug opening.
2. Always check oil level before starting engine. Refer to engine manual for capacity and type of oil to use.

CHECK TILLER TRANSMISSION OIL

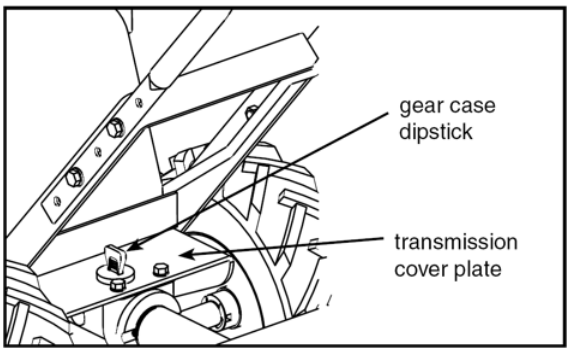
Check the grease level annually. To check the grease level:

1. Move tiller to level ground.
2. Remove grease level dipstick located between the handlebar mounts on the engine mount. If the grease level couldn't touch the dipstick, pals fill the grease.
3. Replace grease level dipstick in the filler hole.
4. Note that the front wheel transmission and rear blade transmission are one common reservoir. When you add to the front transmission, you must wait a short period of time for the grease to flow rearward and equalize in both front and rear. The dipstick will read correctly on level ground for both gear units.

IMPORTANT

TILLER TRANSMISSION IS SHIPPED FROM FACTORY WITH THE PROPER AMOUNT OF LIQUID GREASE.

WHEN REPLACING GREASE, THE TILLER TRANSMISSION HOLDS 18-22 OUNCES. DO NOT OVERFILL.



CHECK TIRE PRESSURE

Recommended tire pressure is 20 PSI. If tires do not have equal pressure, tiller will pull to one side.

LUBRICATION

Proper lubrication of moving mechanical parts is critical for proper care and maintenance. Oil the moving parts shown at 10 hour intervals using the 30 weight oil.

CLEAN BLADE AXLE SHAFT

1. Turn off engine. Engine must be cool.
2. Remove spark plug wire and secure from spark plug.
3. Tip the tiller forward. Block the tiller in position so that it rests on the engine mount and the Blades are exposed.
4. Remove all vegetation, string, wire, and other material that may have accumulated on the axle between the inside set of Blades and the seal on the transmission housing.
5. Tip the tiller back to a level position.
6. Replace spark plug wire.

SPECIFICATION

Tilling Scope	500mm
Tilling Depth	175~350mm
Gear Shifting	0, 1, -1
Engine Type	OHV 4-stroke
Starting System	Recoil
Displacement	196cc
Max Output	6.5HP/3600rpm
Engine Speed	3600rpm
Fuel Volume	3.6 L
Oil Volume	0.6 L
Fuel Type	Unleaded Gasoline

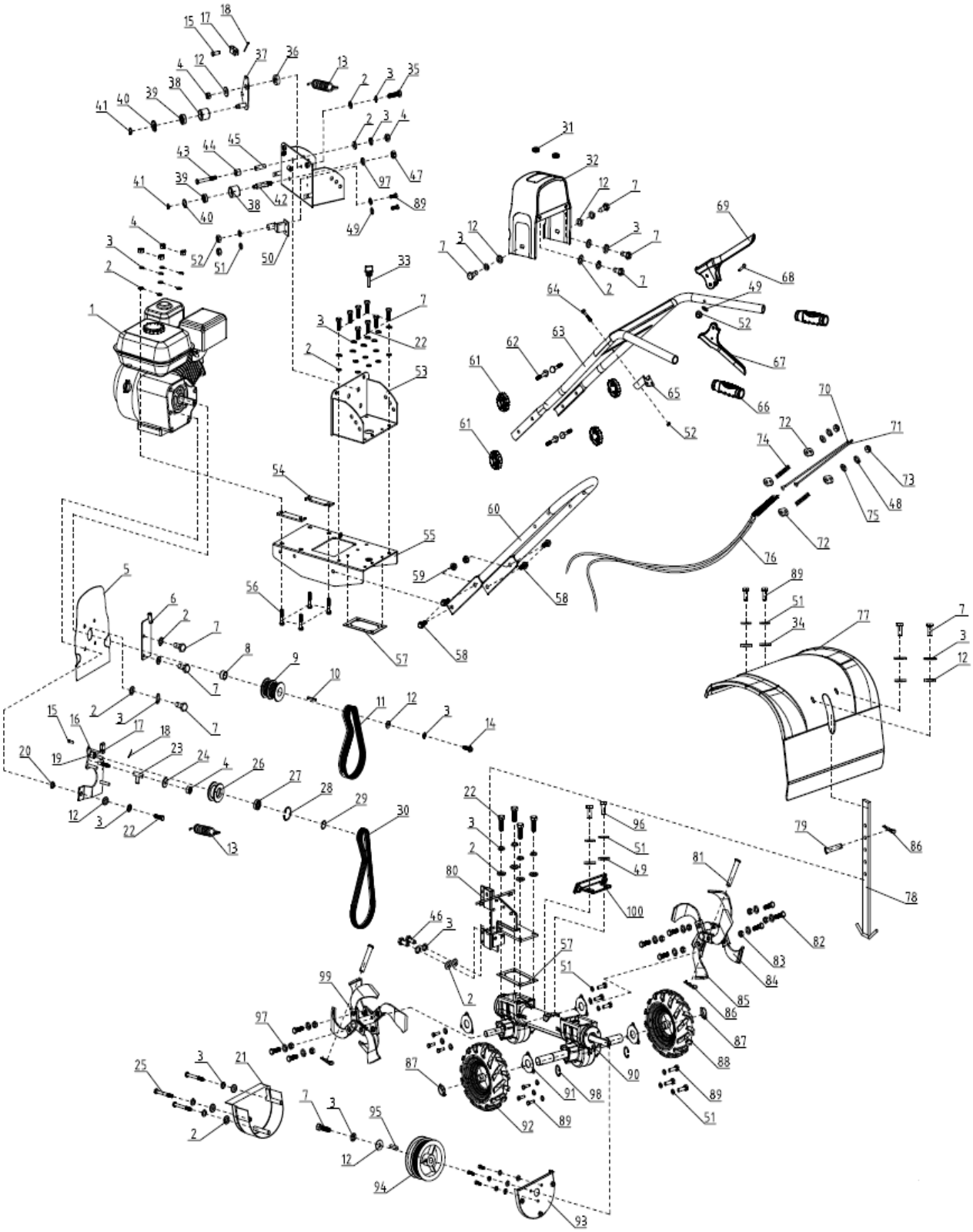
TROUBLESHOOTING

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

POSSIBLE CAUSES	POSSIBLE CORRECTIVE ACTION
Engine will not start	» Add gas to gas tank. » Connect spark plug wire to spark plug » Throttle must be positioned at choke for a cold start
Engine runs rough, foods during operation	» Clean or replace air cleaner
Engine is hard to start	» Drain old fuel and replace with fresh. Use gas stabiliser at end of season » Make sure spark plug wire is securely attached to spark plug » Drive safety control levers must be released to neutral position to start the engine
Engine misses or lacks power	» Raise the Blades for shallow tilling by lowering the depth regulator lever » Remove and clean fuel tank » Clean or replace air cleaner » Improper carburetor adjustment, take to authorized engine service center » Replace spark plug and adjust gap » Drain and refill gas tank and carburetor
Engine will not stop when throttle control is positioned at stop	» See engine manual to check and adjust throttle linkage
Tiller moves forward during starting	» Drive safety control levers must be released to neutral position to start the engine
Tiller is difficult to control when tilling (machine jumps or lurches forward)	» Lock wheels in tilling position » Raise the Blades for shallower tilling by lowering the depth regulator lever
Blades turn, wheels do not turn	» Lock wheels in tilling position » Internal transmission failure, see your dealer
Blades turn, wheels turn, tiller does not move	» Lower the Blades for deeper tilling by raising the depth regulator lever

Belts squeal in neutral and/or reverse	» Adjust forward belt guide: • turn engine off and allow muffler to cool • replace belt guard and spark plug wire • disconnect spark plug wire and secure from spark plug • remove belt guard • pull down on drive safety control levers • manually bend forward belt guide so there is 1/16 inch or less clearance between belt guide and belt
Belts squeal in forward operation	» Adjust tabs on the reverse belt guide • turn engine off and allow muffler to cool • disconnect spark plug wire and secure from spark plug • release drive safety control levers to neutral position • remove belt guard • adjust tabs of reverse belt guide: while drive safety control levers are released, bend metal tabs on reverse belt guide to 1/64 inch or less clearance from reverse belt • replace belt guard and spark plug wire
Excessive heat build up in transmission/tine area during tilling	» Remove vegetation by following instructions in clean Tine Axle Shaft of Normal care section. FOLLOW ALL SAFETY INSTRUCTIONS » Check transmission fluid and fill if needed

REPLACEMENT PARTS LIST



PART#	DESCRIPTION	QYT
1	Engine	1
2	Flat Washer	28
3	Spring Washer	33
4	Bolt	7
5	Engine Baffle	1
6	Reverse Gear Cable plate	1
7	Bolt	14
8	Spacer	1
9	Small Pulley	1
10	Key	1
11	Forward Belt	1
12	Flat Washer	7
13	Spring	2
14	Bolt	1
15	Shaft Pin	2
16	Reverse Tension Arm	1
17	Cable Clamp	2
18	Pin	2
19	Space Sleeve	1
20	Stop Sleeve	1
21	Big Pulley Protection Cover	1
22	Bolt	9
23	Blocking Arm	1
24	Flat Washer	1
25	Bolt	3
26	Reverse Tension Wheel	1
27	Bearing	1
28	Retaining Ring	1
29	Retaining Ring	1
30	Reverse Belt	1
31	Rubber Stopper	1
32	Belt Cover	1
33	Seal Stopper	1
34	Flat Washer	2
35	Hex bolts	1
36	Stop Sleeve	1
37	Forward Tension Arm	1
38	Forward Tension Wheel	2

PART#	DESCRIPTION	QYT
39	Bearing	2
40	Retaining Ring	2
41	Retaining Ring	2
42	Wheel Lever	1
43	Bolt	1
44	Spacer	1
45	Spacer	1
46	Bolt	2
47	Screw	1
48	Spring Washer	2
49	Flat Washer	5
50	Belt Stopper Arm	1
51	Spring Washer	18
52	Screw	4
53	Armrest Seat	1
54	Adjustment Plate	2
55	Engine Plate	1
56	Bolt	4
57	Oil resistant cardboard	2
58	Hex bolts	4
59	Screw	2
60	Handle Armrest	1
61	Handle Knob	4
62	Sector Bolt	4
63	Handle	1
64	Hex bolts	1
65	Cable fixed Seat	1
66	Handle glove	2
67	Reverse handle	1
68	Bolt	1
69	Forward Handle	1
70	Forward Rod	1
71	Reverse Rod	1
72	Rod Protection plate	4
73	Screw	2
74	Spring	2
75	Flat Washer	2
76	Clutch Cable Assembly	2

PART#	DESCRIPTION	QYT
77	Mudguard	1
78	Resistant lever	1
79	Shaft Pin	1
80	Resistant lever seat	1
81	Shaft Pin	2
82	Bolt	12
83	Screw	12
84	Left Blade	6
85	Right Blade	6
86	B Type Pin	3
87	Ring Lock	2
88	Left Wheel	1

PART#	DESCRIPTION	QYT
89	Bolt	14
90	Drive housing	1
91	Oil Seal Cover	4
92	Right Wheel	1
93	Inner Shield for Big Pulley	1
94	Big Pulley	1
95	Key	1
96	Bolt	2
97	Spring Washer	13
98	Retaining Ring	2
99	Tiller shaft seat	2
100	Small Fixed Frame	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 consumables such as blades, bars, chains, recoil starters, or 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

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