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Video Tutorial:
[Tillers – Assembly](#)



Six Blade Hand-Held Cultivator Tiller BT-677

[Revision 6.0 November 2019]

User Manual

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

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Preface

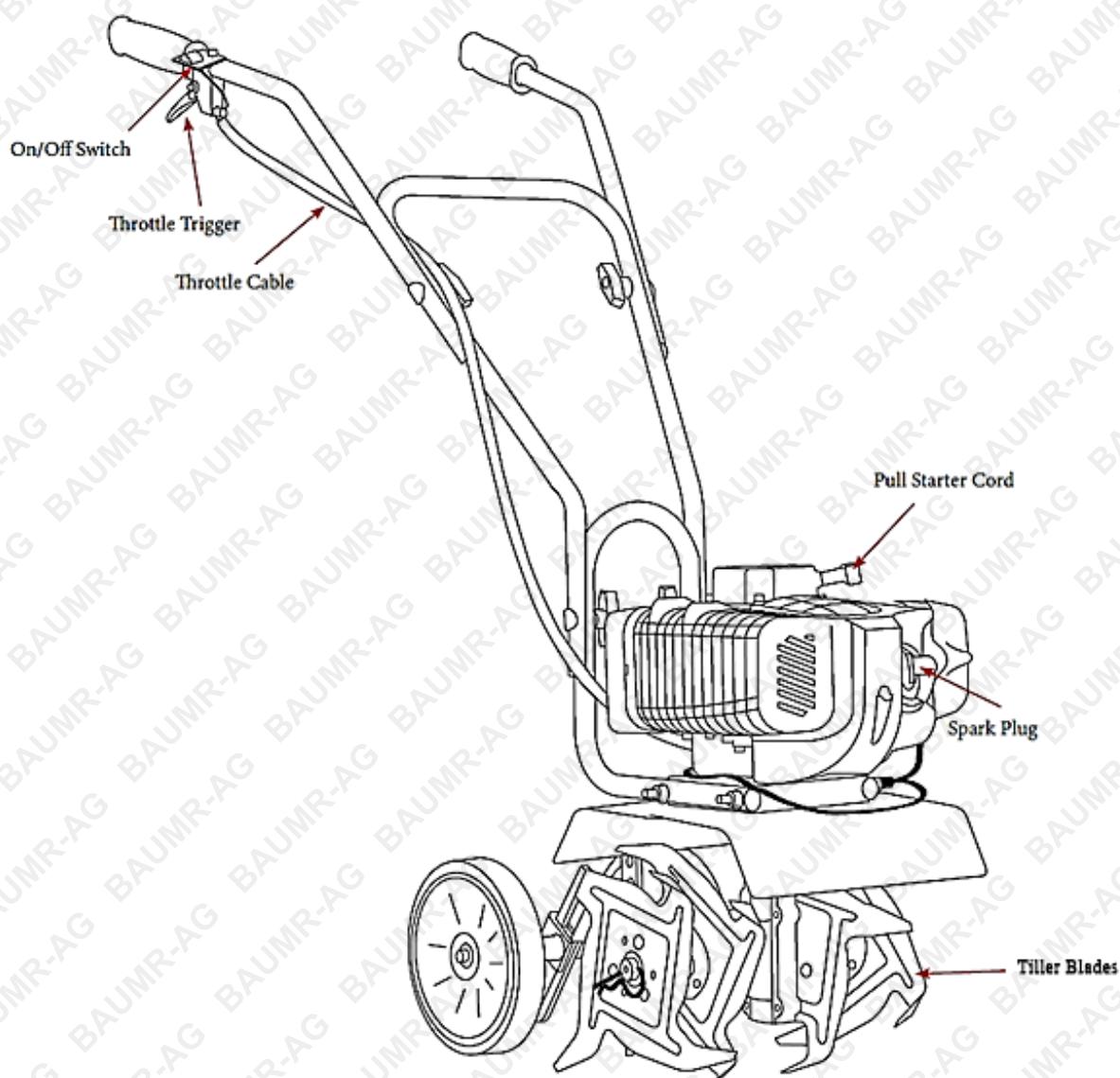
Thanks for buying the Six Blade Hand-Held Cultivator Tiller - BT677, another high-quality machine from our company! To get the most out of your purchase, please read the manual before using the tiller. We ask you to please read this manual carefully beforehand in order to familiarise yourself with this product and after reading, please store this instructional manual for future reference. Failure to follow the proper protocols listed in the manual may cause personal injury to the operator or damage to equipment.

Safety

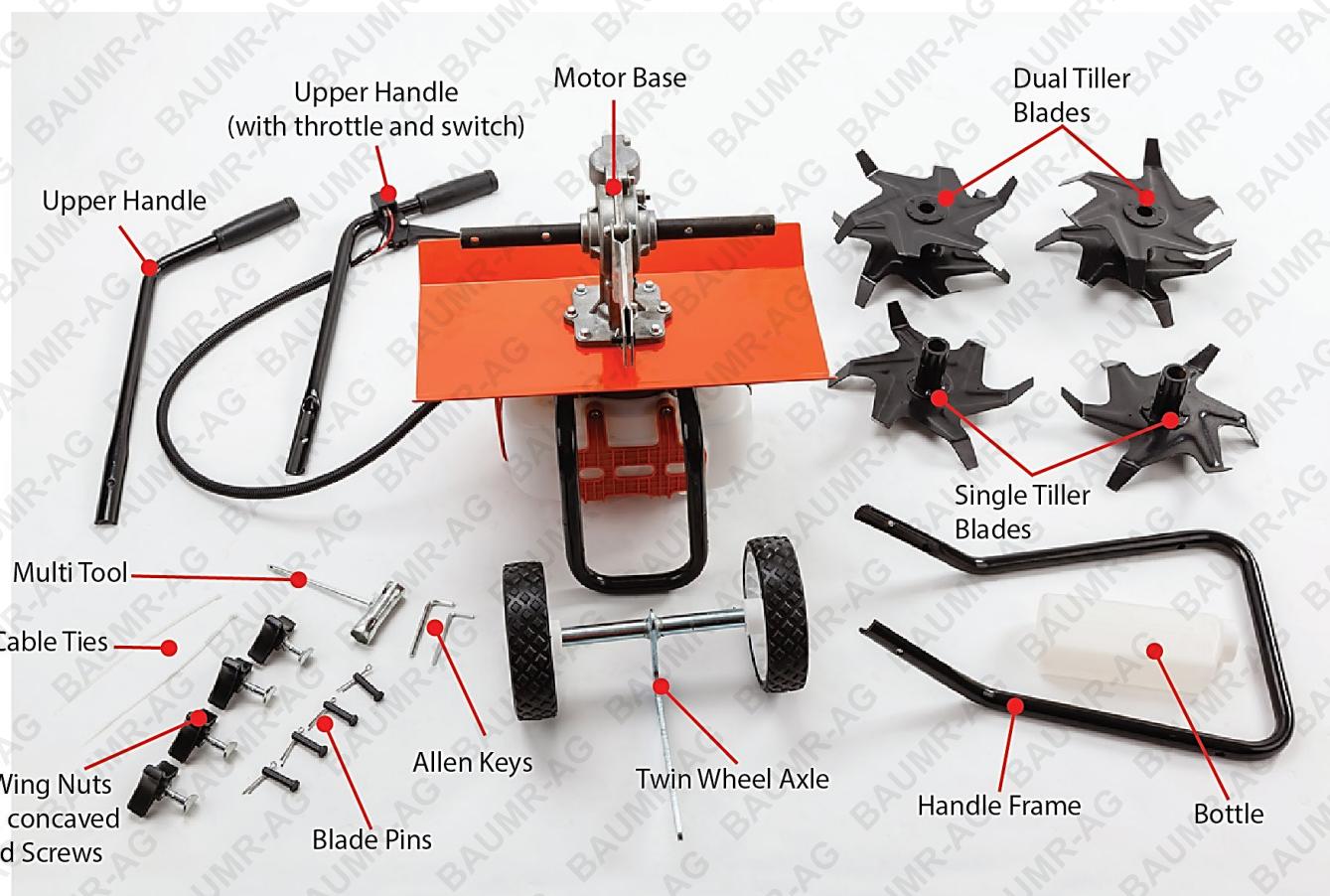
- Accurate assembly and safe and effective use of the rototiller is the owner's responsibility.
- Read and follow all safety instructions.
- Carefully follow all assembly instructions.
- Ensure that anyone who uses the tiller must read the manual and be familiar with all controls and safety precautions.
- Operate the tiller according to the safety instructions and recommendations outlined here.
- Your tiller is equipped with a safety device that enables you to stop the wheels and tines in an emergency.
- Learn how to safely control the tiller at all times.
- Do not allow children to operate this rototiller. Keep small children away from the area being tilled. Do not allow adults to operate the tiller without proper instruction.
- Dress appropriately when operating the tiller. Always wear sturdy footwear. Never wear sandals, sneakers or open shoes and never operate the tiller with bare feet. Do not wear loose clothing that might get caught in moving parts.
- 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.
- Disengage all clutches and leave all control levers in the neutral position before starting the engine.
- Handle fuel with care; it is highly flammable:
 - Use an approved fuel container.
 - Never add fuel to a running engine or hot engine.
 - Fill the fuel tank outdoors with extreme care. Never fill the fuel tank indoors.
 - Replace the gasoline cap securely and clean up spilled fuel before restarting.
- Never operate the tiller without guards, covers and hoods in place.
- Be extremely cautious when operating in reverse. Take extra care to avoid slipping or falling, and keep hands and feet clear from the tines.
- Use extreme caution when operating on or crossing gravel drives, walks or roads. Stay alert for hidden hazards or traffic.
- After striking a foreign object, stop the engine, remove the wire from the spark plug, thoroughly inspect the tiller for any damage and repair the damage before restarting and operating the tiller.
- If vegetation clogs the tines, raise the handlebars to elevate the lines and run the tiller in *reverse*. If this does not clean chopped vegetation from the tines, **stop the engine and disconnect the spark plug wire** before removing vegetation by hand.
- The engine muffler will be hot from operation. Do not touch it with bare skin or a severe burn may result.
- If the unit should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a sign of trouble.
- Do not run the engine indoors; exhaust fumes are deadly.
- Do not overload the machine capacity by attempting to fill too deep at too fast a rate.
- Never operate the machine at high transport speeds on slippery surfaces. Look behind and use care when backing.
- Never allow bystanders near the unit.
- Use only attachments and accessories approved by the manufacturer of the tiller.
- Never operate the tiller without good visibility or light.
- Be careful when tilling in hard ground. The tines may catch in the ground and propel the tiller backwards. If this occurs, let go of the handlebars and do not restrain the machine.

- 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 in place.
- When leaving the operating position for any reason:
 - Shut off the engine.
 - Wait for all moving parts to stop.

Know your Tiller



Included Items



- 1x** Motor Base (with upper handle, throttle and switch)
- 1x** Upper handle
- 2x** Dual Tiller Blades
- 2x** Single Tiller Blades
- 1x** Bottle (for fuel and 2 stroke mixing)
- 1x** Handle Frame

- 1x** Twin Wheel Axle
- 2x** Allen Keys (5mm & 4mm)
- 4x** Blade Pins
- 4x** Tri Wing nuts (for handles)
- 1x** Multi Tool (with 17mm & 19mm hex socket and Phillips head tip)
- 2x** Cable Ties

Assembly

Video Tutorial:
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Please note, this is to be done straight out of the box. Ensure no fuel or petrol mix is in the tank.

Augers and auger tips are consumable parts, and are not covered under warranty.

Step 1: Attaching the tiller blades

Place the motor base upside down (ensuring NO fuel is in the tank – Fig. 1a) and place 1 dual blade onto the axle and align the pin holes (Fig. 1b).



Figure 1a



Figure 1b

Step 2

Place a single blade with the spacer facing in (Fig. 2a) and align the pin holes (Fig. 2b).



Figure 2a



Figure 2b

Step 3

Insert blade pins then split pin and bend legs (Fig. 3).



Figure 3

Step 4

Do the same for the other side (Fig. 4).



Figure 4

Step 5: Attaching the Wheels

Slide wheel axle into the tail of the motor base (Fig. 5a and 5b). Insert pin and locking wire (Fig. 5c and 5d).



Figure 5a**Figure 5b****Figure 5c**

Step 6: Attaching the Handles

Turn motor base so it is standing upright on the wheels and tiller blades (Fig. 6a). Attach handle frame (Fig. 6b) with screws and tri wing nuts. Ensure that the concaved head is on the inside (Fig. 6c) and the tri wing nuts are on the outside (Fig. 6d).

**Figure 6a****Figure 6b****Figure 6c****Figure 6d**

Step 7:

Attach upper handles in the same manner as Step 6 (Fig. 7).



Figure 7

Step 8:

Tie down throttle cable with provided cable ties (Fig. 8a, 8b & 8c). Ensure that it is not too tight. If it is too tight, this may result in the throttle cable getting caught and will affect the operation of the engine. If this does happen, please cut cable tie and replace with a newly purchased cable ties.



Figure 8a



Figure 8b



Figure 8c

Step 9:

This is now complete (Fig. 9). Please refer to our quick start guide.



Figure 9

Quick Start Guide

Step 1: Ensure enough petrol/oil mixture is in the tank.

Always use 25:1 ratio (This equates to 40mL of 2 stroke oil to 1L of petrol).

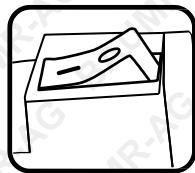
Please note the air filter needs to be oiled prior to use in order to trap dust and dirt before it reaches the motor.



Step 2: Press primer bulb 2-3 times (Fuel should flow through clear tube).



Step 3: Push ON/OFF switch to ON position.



Step 4: Turn choke to "COLD."



Step 5: Pull starter cord 3-4 times or until engine starts.



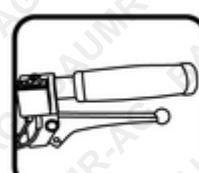
Step 6: Turn choke to "RUN."



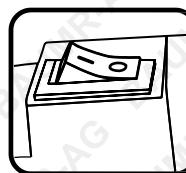
Step 7: If engine stalled, pull starter cord again until it starts.



Step 8: Squeeze throttle according to desired need.



Step 9: When finished, turn ON/OFF switch to OFF.



Click to Watch:
[Starting a 2-Stroke](#)



Maintenance

Air Filter

Every eight hours, remove the cover and the filter. The filter should be washed and dried before refitting it. Remove cover to get access to the air filter:



PLEASE NOTE: The air filter needs to be oiled prior to use in order to trap dust and dirt before it reaches the motor.

Spark Plug

Clean the spark plug and check the electrode gap periodically. Below are dimensions if it needs replacing.



This product comes with a **Torch** branded spark plug, model L7T. Please see below for cross referenced spark plugs:

- **NGK**; BM6A, BPM7A
- **CHAMPION**; CJ6Y, CJ7Y, CJ8
- **DENSO**; W20M-U
- **BOSCH**; WS5F, WS7F, WS8F

Reduction Gearbox

Every 100 working hours, change the grease in the reduction gearbox.



WARNING!

Maintenance procedures that are not reported in this manual must only be carried out by an authorised service personnel. Only use original spare parts.

Specifications

Max. Tilling Depth	150mm
Tilling Width	400mm
Engine Type	Petrol - Two Stroke Commercial
Displacement	65cc
RPM	10,000RPM w/ Centrifugal clutch
Starting System	Recoil (pull cord start)
Fuel Type	Regular Unleaded 95 +RON
Fuel-Oil Ratio	25:1 (25 parts fuel to 1 part two stroke oil)
Fuel Volume	1L
Max. Output	5hp
Max. Speed	9,000r/min



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

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