

*The*  
**Handy**

# INSTRUCTION MANUAL

## 800W ELECTRIC TILLER

Model No: THET-A -- Product No: 193874002

ASSEMBLY REQUIRED

SAVE THESE INSTRUCTIONS

SPARES & SUPPORT: 01793 333212

Please read & understand this manual, paying particular attention to the safety instructions, before use.

The manufacturer reserves the right to change the product specification and livery according to continued product improvements.

Images used are for illustration purposes only

## SPECIFICATION

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Model	THET-A
Product Number	193874002
Motor	230v, 50Hz, 800W
Idle Speed	400rpm
Tilling Width	30cm
Tilling Depth	20cm
Noise Pressure Level (L <sub>PA</sub> )	73.6dB(A)
Guaranteed Noise Power Level (L <sub>WA</sub> )	93.0 dB(A)
Vibration	1.131m/s <sup>2</sup>
Net Weight	8.5kg

## IMPORTANT INFORMATION

### INTENDED USE

The product is intended for domestic gardens. This product is not intended for commercial use. Generally acknowledged accident prevention regulations and enclosed safety instructions must be observed. Only perform work described in these instructions for use, any other use is incorrect. The manufacturer will not assume responsibility for damage resulting from such use.

## GENERAL SAFETY INSTRUCTIONS

Read and understand the owner's manual and labels affixed to the product. Learn its application and limitations as well as the specific potential hazards. Retain these instructions for future reference. The operator is responsible for following the warnings & instructions in this manual and on the product.

### STAY ALERT

Do not operate the machine while under the influence of drugs, alcohol, or any medication that could affect your ability to use it properly. Do not use this machine when you are tired or distracted from the job at hand. Be aware of what you are doing at all times. Use common sense.

### AVOID DANGEROUS CONDITIONS

Make sure there is adequate surrounding workspace. Cluttered areas invite injuries. Keep your work area clean with sufficient light. Keep the area around the machine clear of obstructions, grease, oil, rubbish and other debris which could cause persons to fall onto moving parts.

### INSPECT YOUR MACHINE

Check all bolts, nuts, and screws for tightness before each use, especially those securing guards and drive mechanisms. Vibration during use, may cause these to loosen. Form a habit of checking to see that all other tools/equipment are removed from the working area before turning it on. Replace damaged, missing or failed parts before using it. Warning labels carry important information. Replace any missing or damaged warning labels.

### DRESS PROPERLY

Do not wear loose clothing, gloves, scarfs, neckties or jewelry (rings, wrist watches), which can be caught in moving parts. Protective electrically non-conductive gloves and non-skid heavy duty footwear are highly recommended when working. Wear a face or dust mask if the operation is dusty. Always wear safety glasses/goggles and/or face shields. Everyday eyeglasses have only impact resistant lenses; they are not safety glasses/goggles. Wear protective hair covering to contain long hair, preventing it from getting caught in machinery.

### DO NOT SMOKE

Do not smoke when using the tiller and ensure caution when handling fuel. We recommend you fuel the machine at least 3 metres away from where you wish to work, in case any spilt fuel ignites when starting the engine.

### AVOID ELECTRICAL SHOCK

Do not operate near underground electrical cables, telephone lines, pipes or hoses.

### ALWAYS SWITCH THE MACHINE OFF

Always switch off the machine, disconnect the plug and wait for the tines to stop turning before carrying out any inspection or maintenance. The tines will not stop immediately after switching off.

### ELECTRICAL SAFETY

The mains voltage must correspond to the one marked on the technical data plate (230V-50Hz). Do not use any other source of power. The use of a circuit breaker is recommended for an intervention range of 10 to 30 rated mA.

Make sure you always know where the cable is and never pass the tiller over the cable to avoid cutting the cable with the tines.

Do NOT use the machine in the rain and do NOT leave it outside overnight. Try to prevent it getting wet or being exposed to humidity.

Check the power cable regularly to ensure it is not damaged. Only use an extension cable which is suitable for outdoor use. If the cable is damaged arrange for a replacement before further use. The mobile socket of the extension cable should be splash proof in compliance with DIN57282 and VDE 0282 regulations; the cross section of the wire ( max length 75m) should be at least 1.5mm<sup>2</sup>. Use H07RN-F harmonised cable.

### KEEP BYSTANDERS AND CHILDREN AWAY

Keep unauthorised persons a minimum distance of 20 metres away from the machine. If approached, stop the machine immediately. Do not allow children to handle, climb on or in the mixer.

### DO NOT OVERREACH

Keep proper footing and balance at all times when using the machine. Never stand on the machine. Serious injury could occur if the machine is tipped or if the moving parts are unintentionally contacted. Do not store anything above or near the machine, where anyone might stand on the machine to reach them.

### AVOID INJURY FROM UNEXPECTED ACCIDENT

Keep hands & feet out of the way of all moving parts. Do not place any part of your body or any tool e.g. in the machine during operation.

### DO NOT FORCE TOOL

Always work within the rated capacity. Do not use machine for a purpose for which it was not intended.

### NEVER LEAVE MACHINE RUNNING UNATTENDED

Do not leave the machine unattended until it has come to a complete stop.

### MAINTAIN YOUR MACHINE WITH CARE

Clean the machine immediately after use. Keep the machine clean to ensure it operates to it's full and safest performance. When maintaining this machine, only the manufacturer's original replacement parts should be used. The use of non-original manufacturer parts may invalidate your warranty.

### PROTECT THE ENVIRONMENT

Take left over materials to an authorised collection point or follow the stipulations in the country where the mixer is used. Do not discharge into drains, soil or water.

### STORE IDLE EQUIPMENT

When not in use, the machine should be stored in a dry location. Keep the machine away from children and others not qualified to use it.

### SAFETY SYMBOLS

	Read & understand operator's manual before using the machine. Failure to follow instructions could result in death or serious injury.		Always inspect the machine thoroughly before turning it on. Keep guards in place and in working order. Do not use the machine with the electric motor cover removed.
	Whenever the machine is in use, safety glasses must be worn to safeguard against flying objects. Wear gloves to protect your hands and head protection. Wear foot protection at all times.		Keep all bystanders & animals at least 20 metres away from the machine during operation. If approached, stop the machine immediately.
	Keep hands & feet out of the way of all moving parts. Do not place any part of your body or any tool in the tines during operation.		DO NOT smoke whilst using this machine
			Acoustic power level LWA accordance with directive 2000/14/EC + 2005/88/EC (Please see machine & specification within this manual for actual reading)



Safety alert symbol. Used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury.



#### DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in serious injury.



#### WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in serious injury



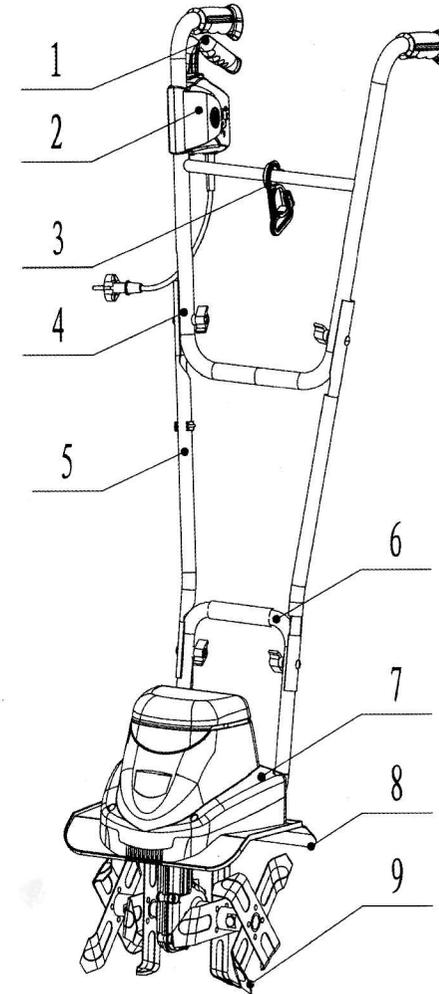
#### CAUTION

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

#### CAUTION

Used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

### COMPONENTS



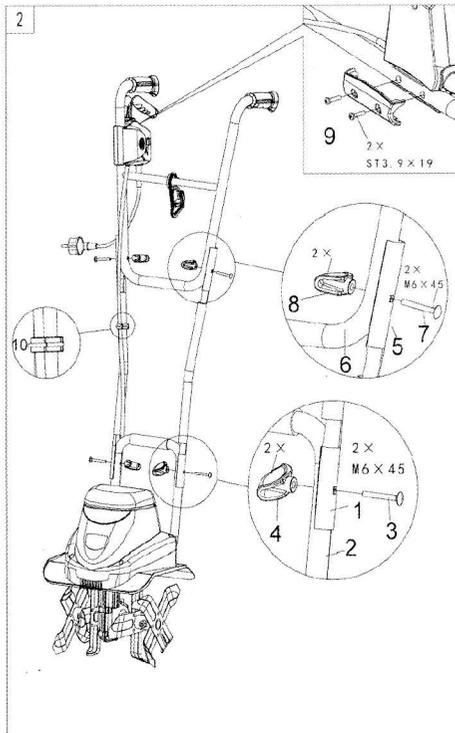
1	Trigger Lever
2	Safety Switch
3	Cable Relief
4	Upper Handle
5	Carrying Handle
6	Lower Handle
7	Fender
8	Protective Shield
9	Tines

## ASSEMBLY

Before commencing assembly, unpack the contents of the box and check that nothing is damaged. You will require a Phillips (crosshead) screwdriver and an 8mm spanner.

### HANDLEBARS

- Remove the two black crosshead screws from the Trigger switchbox. Remove the small switchbox housing. Attach the Trigger switchbox to the Upper Handle, by placing the attached lugs in the handle holes, on the right hand side. Re-attach the small housing onto the outside of the upper handle and secure using the two black crosshead screws.
- Attach the Middle Handles to the Lower Handle Frame and fasten with the two handle knobs, and bolts. The handle knob should be located on the inside with the bolt on the outside of the handlebars.
- Repeat the above process, when attaching the Upper Handle to the Middle Handles.
- Take care not to pinch the electric cable or switch wires.
- Secure the wires to the handle, using the black cable clips.
- Ensure the handle knobs are secured in place.



## OPERATION

Move the tiller to the work area before starting the motor.

### GEARBOX LUBRICATION

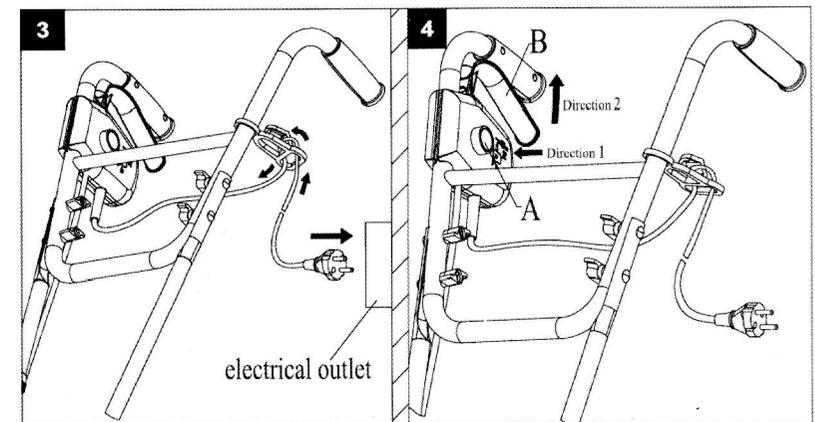
Grease is supplied in the machines gearbox at the factory. High quality automotive grease should be applied to the gearbox every 2 years. The gearbox holds a maximum of 60ml of grease. Regularly check for leaks coming from the gearbox.

### STARTING THE MACHINE:

- Plug the machine into the mains. If using an extension cable, please check that it meets the necessary requirements, as stated in this manual.
- When you are at your working area, press the Safety Button on the Trigger Switchbox with your thumb. Squeeze the green Trigger, up towards handle assembly.
- The tines will now rotate.
- With the tines rotating, release the Safety Button with the Trigger still squeezed.
- To stop, release the Trigger

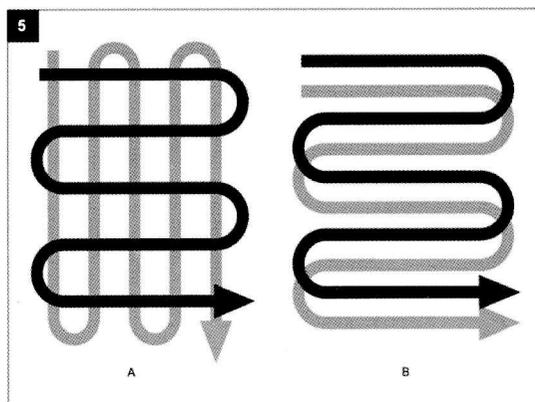


**CAUTION**  
The tines will still rotate, after trigger has been released.



## USING THE MACHINE

- Hold the tiller firmly when switching on as it may jump when the tines start rotating.
- The tines will pull the tiller forward during operation – press down on the handle to dig the tines into the soil.
- By pulling the tiller backwards the tines will dig deeper and more aggressively, take care not to trip over and keep the cable clear.
- For breaking sod or deep tilling, allow the tines to move forward to arms reach and then pull back firmly. By repeatedly allowing the tiller to move forward and backward, cultivating will be more effective.
- If the tiller digs deep enough to stay in one spot, rock gently from side to side to move the tiller forward again.
- For preparing seed beds, we recommend you use one of the patterns shown below. Either make two passes at right angles to each other, or make two passes, side by side with the second overlapping the first.
- Take care when transporting the machine. Always carry the tiller to avoid causing damage to the tines when moving over hard ground.
- Switch off the power and clear the tines of all debris, roots, stones etc. regularly when using. If weeds are wrapped round the tines you may have to remove the tines as shown later in this manual.



## MAINTENANCE

Keeping your tiller in top running condition will prolong its life and help you obtain optimum performance whenever you wish to till your garden.

**BEFORE CARRYING OUT ANY MAINTENANCE, DISCONNECT THE MACHINE FROM THE POWER SOURCE.**

### CLEANING

Clean the tiller underneath the tine shield after each use. It is easier to clean off soon after use before it has had time to dry. Let it to cool down before cleaning off the tines with a stiff brush. **DO NOT SPLASH WITH WATER.**

Ensure all vents are clear of debris, dirt or grass.

### ONLY USE MANUFACTURER APPROVED PARTS

If a part needs replacing, only use the manufacturer's original parts. Non-original replacement parts will invalidate your warranty and may result in a safety hazard or poor operation.

## STORAGE

The tiller should be stored in a dry area, out of the reach of children.

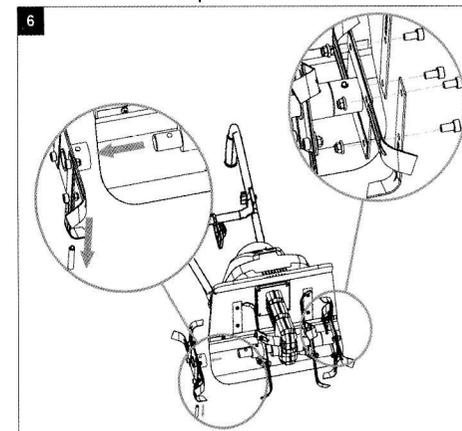
At the end of the season, or the tiller is not going to be used for some time:

- Clean the tiller.
- Wipe over the metal surfaces with an oil-impregnated cloth to protect them from corrosion (non-resinous oil) or spray a fine coat of oil onto them from a can.
- Fold the top handle down for ease of storage.

## ADJUSTING AND CHANGING THE TINES

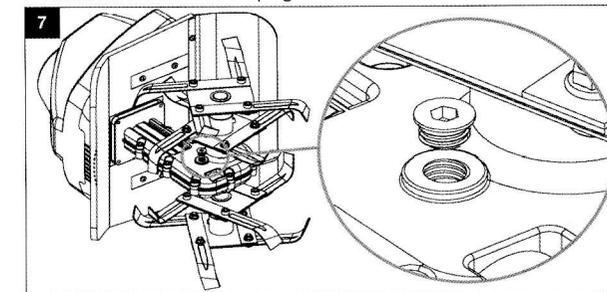
Worn tines can result in poor performance and overload the motor. Sharpen or replace tines with new ones if necessary. To remove tines:

- Remove the lock pin from the end of the shaft.
- Take off the outer tine set from the shaft.
- Remove the lock pin and take off the inner tine set from the shaft.
- Reverse above steps to install tines.



## CHECKING TRANSMISSION LUBRICANT

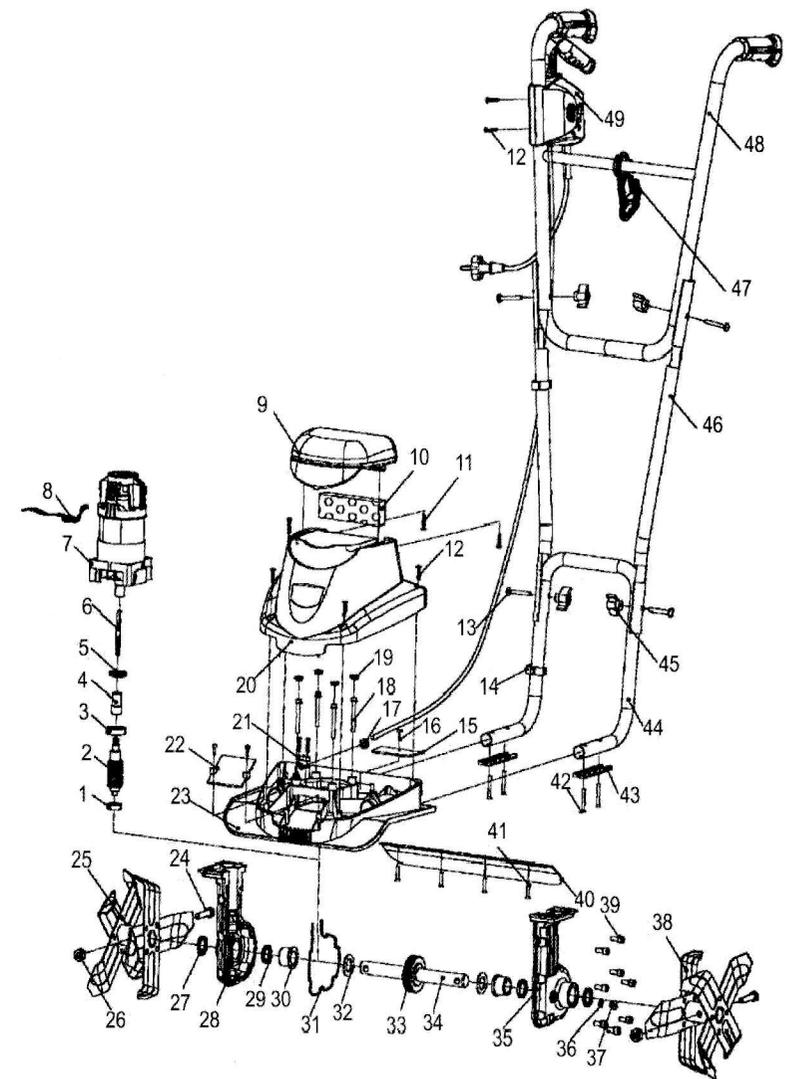
- The drain screw plug is located on the right side of the transmission housing.
- Lay the tiller on its left side & clean the transmission of dirt and debris. If necessary, disassemble the tines.
- Remove the drain screw, using a 5mm Allen key to unscrew the plug.
- Fill up using a grease gun & a high quality automotive grade grease until it begins to seep out around the edge of the hole of the nozzle. From empty, 60ml of grease will fill gearbox.
- Reinstall the drain screw plug.



## TROUBLE SHOOTING

Issue	Likely Cause	Solution
<b>Motor does not start</b>	No Electricity	Check mains connection
	Defective Cable	Check cable, replace if necessary or repair if possible. Should only be carried out by electrical specialist.
	Defective safety switch or plug	Arrange for inspection by electrical or garden machinery specialist.
<b>Overheat protection activated</b>	Blades blocked	
	Soil too hard – move tiller forward/backward several times slowing down the tine speed. Allow motor to cool down before restarting.	
<b>Abnormal Noises</b>	Blade jammed	Switch the machine off, remove from the mains. When the blades completely stopped, remove the foreign object.
	Lack of lubrication	Top up gearbox grease if necessary. Alternatively, if leaking, have machine inspected by garden machinery specialist.
	Loose bolts, nuts or other securing components	Tighten all components, contact garden machinery specialist if continues.
<b>Abnormal Vibration</b>	Tines damaged or worn	Replace or have the tines checked by garden machinery specialist
<b>Poor results</b>	Worn tines	Replace or have the tines checked by garden machinery specialist

## PARTS DIAGRAM - MACHINE



**NOTE:** Parts Lists are supplied for information purposes only, not all parts are stocked individually & we recommend you contact our Spares Team on 01793 333212 for expert advice.