



# INSTRUCTION MANUAL

## 800W ELECTRIC TILLER

Model No: THET -- Product No: 193874002

ASSEMBLY REQUIRED

SAVE THESE INSTRUCTIONS

SPARES & SUPPORT: 01793 333212

**IMPORTANT**

Please read & understand this manual, paying 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



# **CONTENTS**

**SPECIFICATION**

**IMPORTANT INFORMATION**

**GENERAL SAFETY INSTRUCTIONS**

**COMPONENTS**

**ASSEMBLY**

**OPERATION**

**MAINTENANCE**

**TROUBLE SHOOTING**

**PARTS DIAGRAMS & LISTS**

**WARRANTY**

**EC DECLARATION OF CONFORMITY**

## **ASSEMBLY IS REQUIRED**

This product requires assembly before use. See the "Assembly" section for instructions. Please check that all parts required for the assembly of this spreader are included. If for any reason you believe a part for the assembly is missing or damaged, please contact us.

**If you require any assistance with regards to the contents or operation of your machine, please contact us:**

**TEL: 01793 333212**

**(MON – FRI 8.00AM TO 5.30PM EXCL. BANK HOLIDAYS)**

**EMAIL: [customerservice@handydistribution.co.uk](mailto:customerservice@handydistribution.co.uk)**

# SPECIFICATION

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

Model	THET
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 its 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

	<p>Read &amp; understand operator's manual before using the machine. Failure to follow instructions could result in death or serious injury.</p>		<p>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.</p>
	<p>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.</p>		<p>Keep all bystanders &amp; animals at least 20 metres away from the machine during operation. If approached, stop the machine immediately.</p>
	<p>Keep hands &amp; 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.</p>		<p>DO NOT smoke whilst using this machine</p>
			<p>Acoustic power level LWA accordance with directive 2000/14/EC + 2005/88/EC (Please see machine &amp; specification within this manual for actual reading)</p>



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.



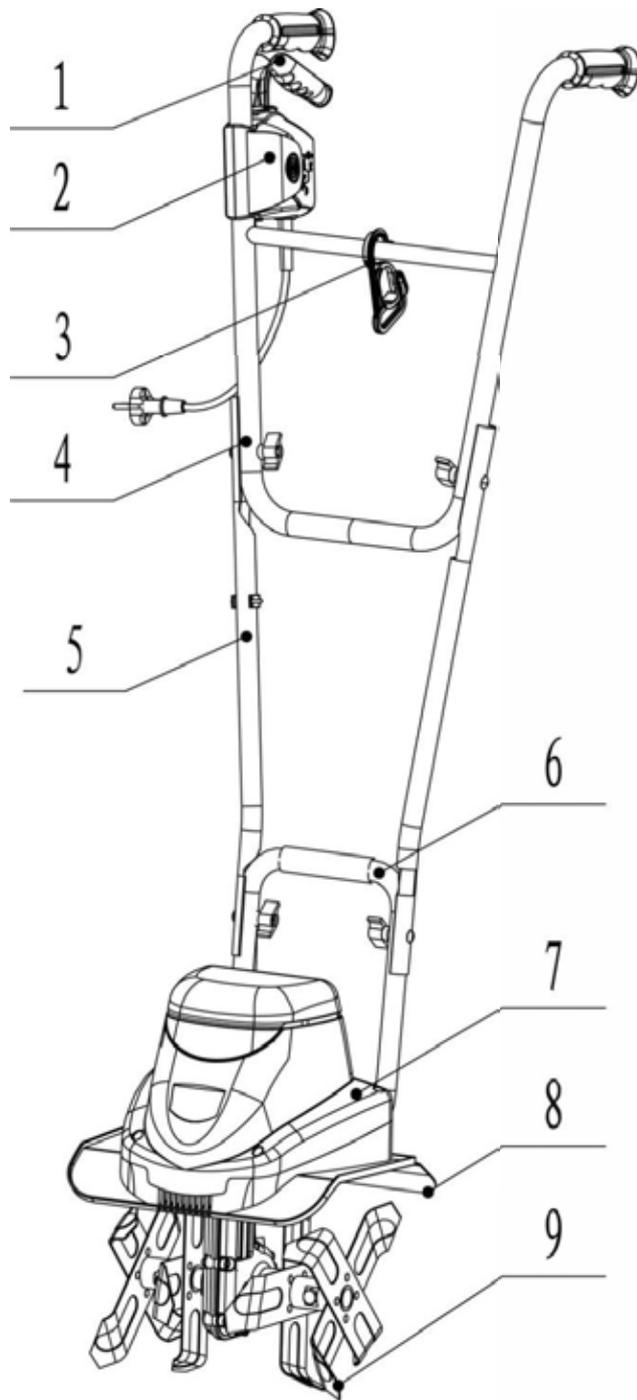
### CAUTION

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



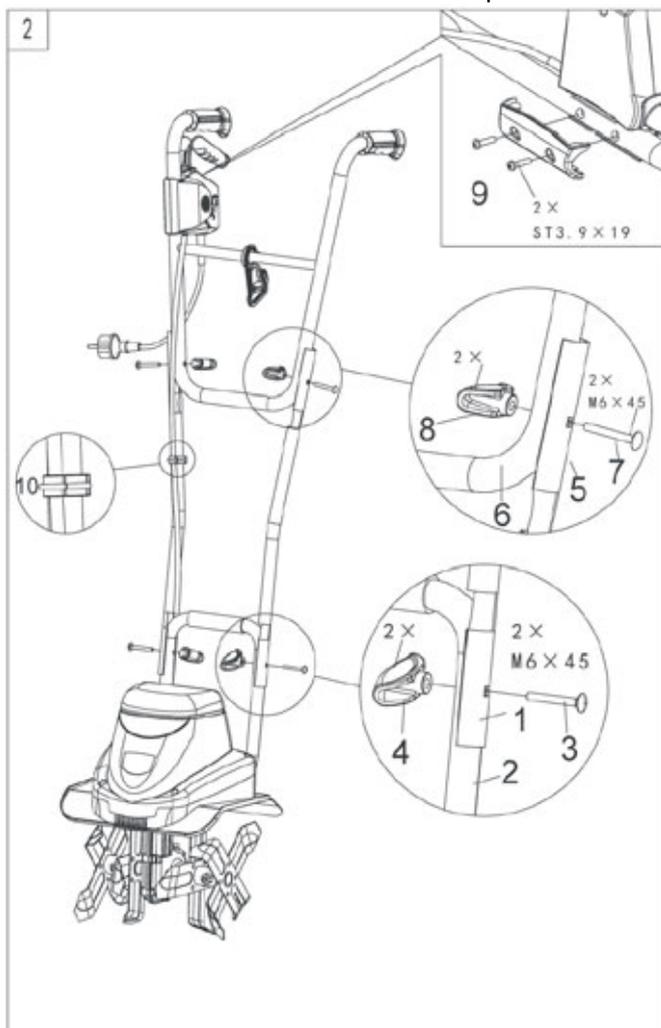
1	Trigger Lever
2	Safety Switch
3	Cable Relief
4	Upper Handle
5	Carrying Handle
6	Lower Handle
7	Fender
8	Protective Shield
9	Tines

# 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.

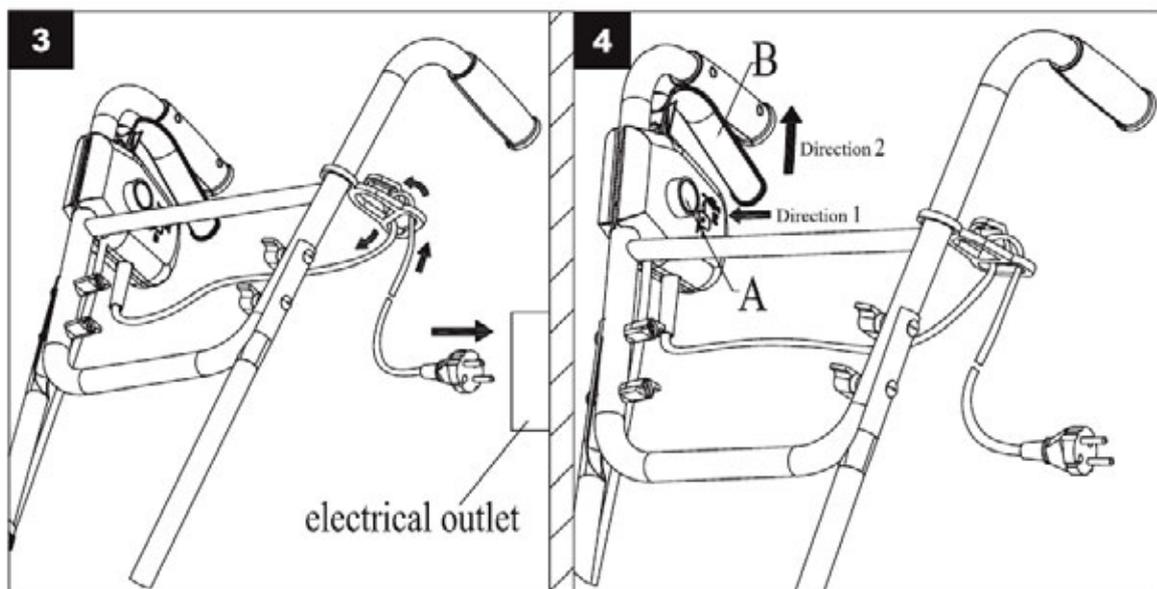
## STARTING THE MACHINE:

- 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



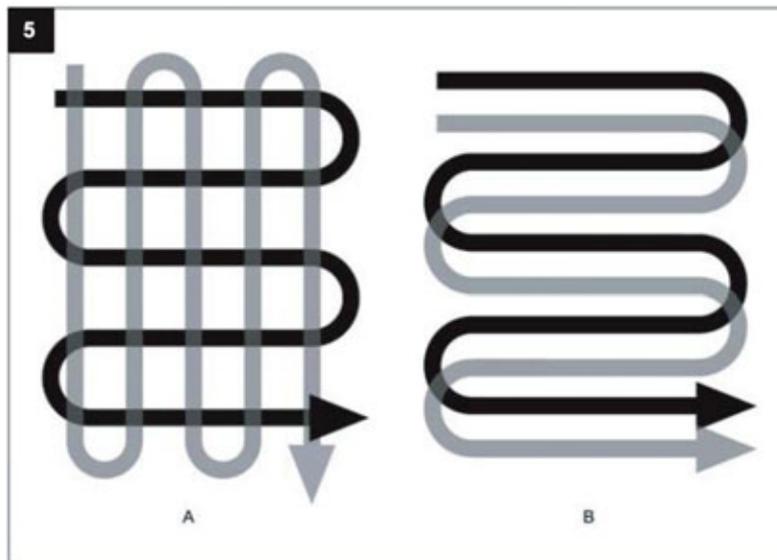
## CAUTION

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

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

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

### 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. Ensure all vents are clear of debris, dirt or grass. **(DO NOT SPLASH WITH WATER).**

### 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.

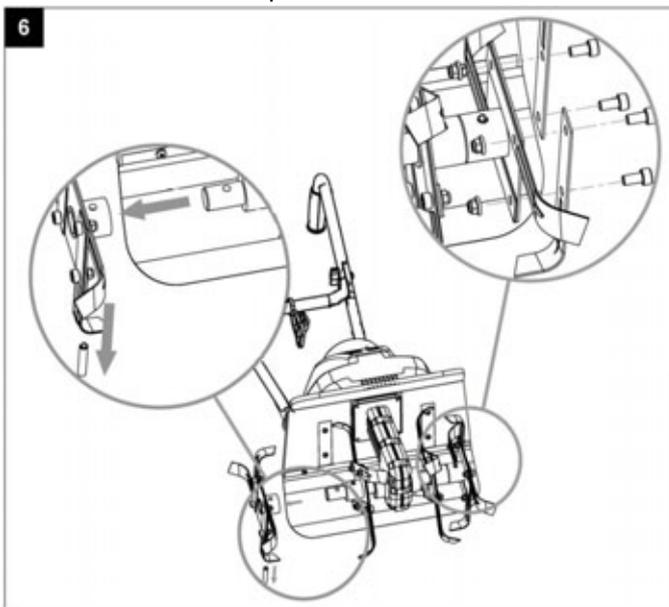
At the end of the season, or the tiller is not going to be used for some time:

- 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

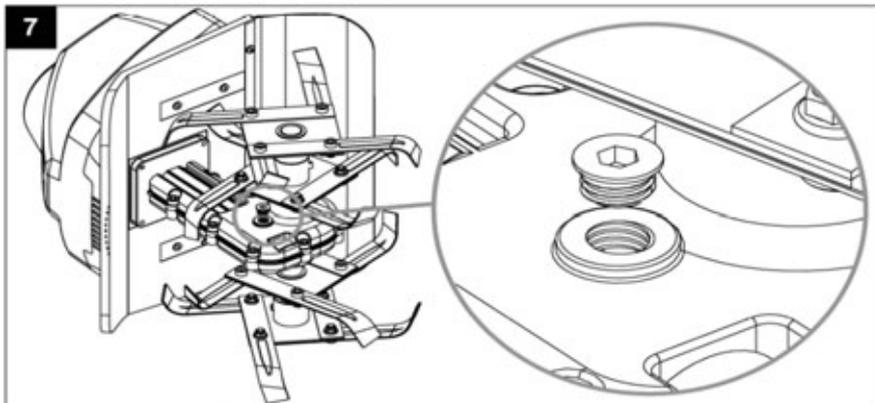
Worn tines can result in poor performance and overload the motor. Sharpen or replace tines with new ones if necessary. To remove tines:

- 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

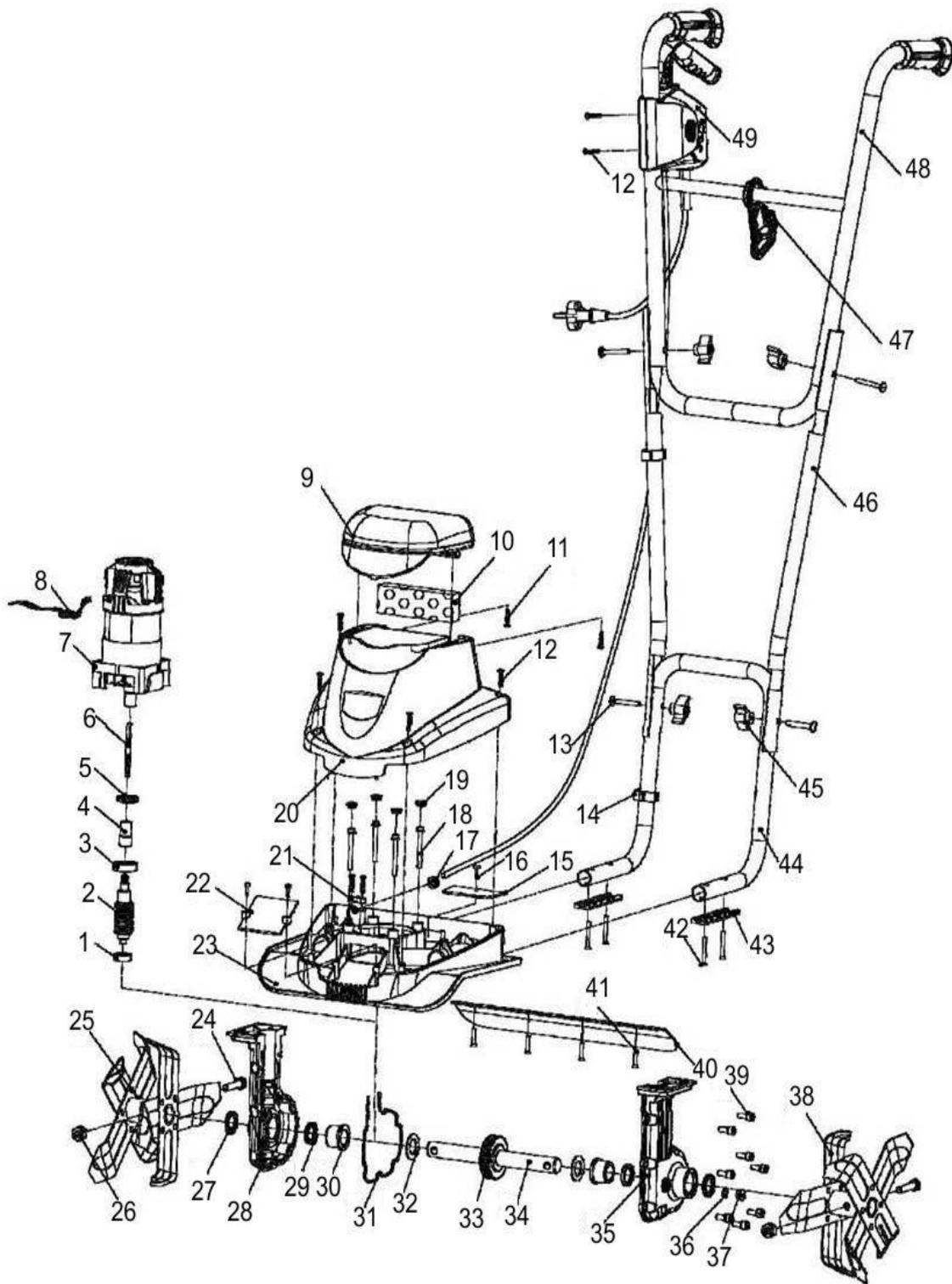
- The drain screw plug is located on the right side of the transmission housing.
- Lay the tiller on its left side & clean the transmission of dirt and debris. If necessary, disassemble the tines.
- Remove the drain screw, using a 5mm Allen key to unscrew the plug.
- Fill up using a grease gun & a high 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.
	Overheat protection activated	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.

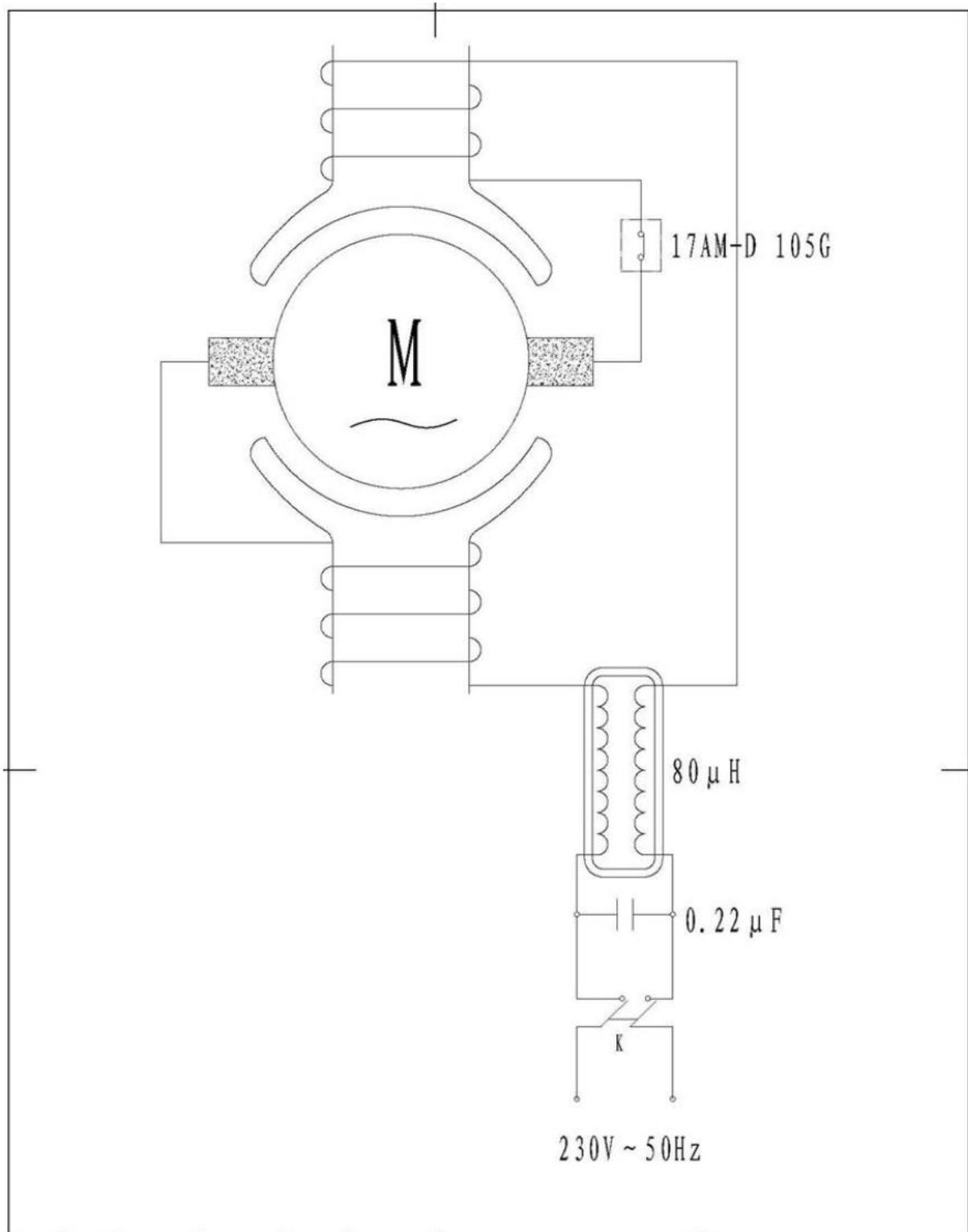
## PARTS LIST

No.	Part No.	Description	QTY
1	TH165-1	Bearing 608Z	1
2	TH165-2	Worm Shaft	1
3	TH165-3	Bearing 6200	1
4	TH165-4	Coupler	1
5	TH165-5	Rubber Seal 2	1
6	TH165-6	Flexible Shaft	1
7	TH165-7	Motor	1
8	TH165-8	Inductor	1
9	TH165-9	Cover	1
10	TH165-10	Sponge Strip	1
11	TH165-11	Screw ST3.5x16	4
12	TH165-12	Screw ST3.9x19	14
13	TH165-13	Screw M6x45	4
14	TH165-14	Cable Clip	2
15	TH165-15	Back Cover	1
16	TH165-16	Screw ST3x12	1
17	TH165-17	Cable Sleeve	1
18	TH165-18	Screw M5x48	4
19	TH165-19	Capping Plug	4
20	TH165-20GM	Motor Housing	1
21	TH165-21	Cable Holder	1
22	TH165-22	Cover	1
23	TH165-23	Fender	1
24	TH165-24	Screw M8x40	2
25	TH165-25	Tines Set 2	1

No	Part No.	Description	QTY
26	TH165-26	Nut M8	2
27	TH165-27	Ring	2
28	TH165-28	Gearbox Case Right	1
29	TH165-29	Rubber Seal	2
30	TH165-30	Oil Bearing	2
31	TH165-31	Seal	1
32	TH165-32	Washer	2
33	TH165-33	Worm Wheel	1
34	TH165-34	Shaft	1
35	TH165-35	Gearbox Case Left	1
36	TH165-36	O-Ring	1
37	TH165-37	Drain Plug	1
38	TH165-38	Tines Set 1	1
39	TH165-39	Screw M6x16	6
40	TH165-40	Protective Shield	1
41	TH165-41	Screw ST4.2x19	4
42	TH165-42	Screw ST4.2x32	4
43	TH165-43	Handle Holder	2
44	TH165-44GM	Lower Handle	1
45	TH165-45	Handle Nut	4
46	TH165-46GM	Middle Handle	2
47	TH165-47	Cable Hook	1
48	TH165-48GM	Upper Handle	1
49	TH165-49	Trigger & Safety Switch	1

**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.

# WIRING DIAGRAM



# GJ HANDY & CO LTD USER WARRANTY POLICY

## **Users Statement of Warranty**

Each new machine is warranted against defective material or assembly of material under normal usage. The warranty applies to the original purchaser and covers faulty parts and the labour involved in replacing and repairing those parts, which are of original manufacture.

## **Period of Warranty**

### **All Webb, Handy Pro (Brushcutter & Long Handle Hedgecutter only) and Sanli domestic products.**

2 years from the original date of sale to the first domestic user.

90 days from the original date of sale to the professional/commercial user.

90 days from the original date of sale when used for hire.

A reduced warranty period of 90 days applies to those items which are subject to normal wear and tear (e.g. wheels, tyres, cutter bars, cylinders, bottom blades, belts, cables, grass bags, spark plugs).

Engines as per the manufacturer's warranty statement which will be supplied with the machine.

90 days from the original date of purchase for Replacement Spare Parts (unless normal wear & tear component, which are covered for 30 days).

All machines' must be serviced within the first 12 months from the original date of purchase to comply with the warranty, failure to do so will invalidate the 2nd year of the warranty.

### **All Handy, Handy Pro (All others), Mowerland and Q-Garden domestic products.**

1 year from the original date of sale to the first domestic user.

90 days from the original date of sale to the professional/commercial user.

90 days from the original date of sale when used for hire.

A reduced warranty period of 90 days applies to those items which are subject to normal wear and tear (e.g. wheels, tyres, cutter bars, cylinders, bottom blades, belts, cables, collection bags, spark plugs).

Engines as per the manufacturer's warranty statement which will be supplied with the machine.

90 days from the original date of purchase for Replacement Spare Parts (unless normal wear & tear component, which are covered for 30 days).

All warranty repairs must be undertaken by an authorised service dealer. These dealers have been accredited by GJ Handy & Co Ltd and agree to only use genuine parts and follow our repair procedures.

# GJ HANDY & CO LTD USER WARRANTY POLICY

## **Not covered by this warranty**

- a) The warranty policy does not cover any depreciation or damages caused by ordinary wear, rusting or corrosion, lack of correct maintenance or operation, misuse, abuse, lack of transportation or accident.
- b) The warranty policy does not cover any costs necessary for the standard periodic maintenance services instructed by the operator's manual, or service parts replacement which would include oil, filters, tyres, belts, brake linings, fuses, blades, seals and other service parts unless it can be proven that the item has evidence of faulty manufacture.
- c) The warranty policy will not cover failure or damage caused as a result of parts or accessories being modified without the written approval of GJ Handy & Co Ltd.
- d) The warranty policy will not cover the unit if non-genuine parts have been fitted and as a result damage has occurred to the unit.
- e) The warranty policy is non-transferable and is only applicable to the original purchaser.

## **Disclaimer**

- a) This warranty is only a remedy for defect of products. GJ Handy & Co Ltd will never warranty in terms of the merchantability or the fitness for a particular purpose.
- b) No person is authorised to make any warranties, representations or promises, expressed or implied, on behalf of GJ Handy & Co Ltd, or to modify the terms conditions or limitation of this warranty policy in any way.
- c) Neither GJ Handy & Co Ltd nor any company affiliated with GJ Handy & Co Ltd shall be liable in any event or manner whatsoever for incidental or consequential damages or injuries, including, but not limited to, loss of crops, loss of profit, out of pocket expenses or profits, rental of substitute equipment or other commercial losses.

## **General**

- a) Most warrantable failures show up within the first few weeks of use. These failures are usually straightforward and warranty assessment is relatively easy.
- b) Failures relating to cutter decks and belts need careful investigation, as the cause may not always be straightforward. Look for damage to blades and pulleys especially when the cutter belt or blade boss have snapped or cracked as this could be due to impact damage.
- c) Customers should always refer to the operator/instruction manual when any disputed problem arises, you will find most areas covered within the manual.



## EC DECLARATION OF CONFORMITY

We Handy Distribution Ltd - SN3 5HY (Importer) declare that the product:

**Designation:** 800watt Electric Tiller

**Model(s):** THET-A

**Product Number:** 193874002

**Type/Serial No.** As per rating label on machine

Complies with the following directives:

**2006/42/EC** - Machinery Directive

Standards and technical specifications referred to:

**EN 55014-1:2006+A1+A2, EN 55014-2:1997+A1+A2, EN 61000-3-2:2006+A1+A2, EN 61000-3-3:2013, EN 60335-1:2012, EN 709:1997+A4, EN 62233:2008, ZEK 01.4-08/11.11**

**Name of the Notified Body:**

TÜV Rheinland LGA Products GmbH

**Address:**

Tillystrabe 2, 90431 Nürnberg

**Measured Noise Pressure Level:**  $L_{PA}$  73.6 dB (A)

**Guaranteed Noise Power Level:**  $L_{WA}$  93.0 dB (A)

**Authorised signatory and technical file holder**

**Date:** 08/09/2016

A handwritten signature in black ink, appearing to read 'S Belcher', is written over a horizontal line.

**Signature:**

**Name:** Mr Simon Belcher

**Position:** Managing Director

**Company:** Handy Distribution Ltd

**Address:** Murdock Rd, Swindon, Wiltshire, SN3 5HY.





For spares or support of your handy product,  
please contact us:

Tel: 01793 333212

(Mon – Fri 8.00am to 5.30pm excl. Bank Holidays)

Email: [customerservice@handydistribution.co.uk](mailto:customerservice@handydistribution.co.uk)

**To see our range of garden machinery & equipment visit:**

**[www.thehandy.co.uk](http://www.thehandy.co.uk)**

**Making gardening easier & affordable since 1938**

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