

# ***Rotabroach***<sup>TM</sup>

# **ELEMENT 14**

## **METAL CUTTING SAW**

**Model Number Element 14/1, Element 14/3**

**This machine (Serial Number .....) is CE approved.**



***Rotabroach***<sup>®</sup>

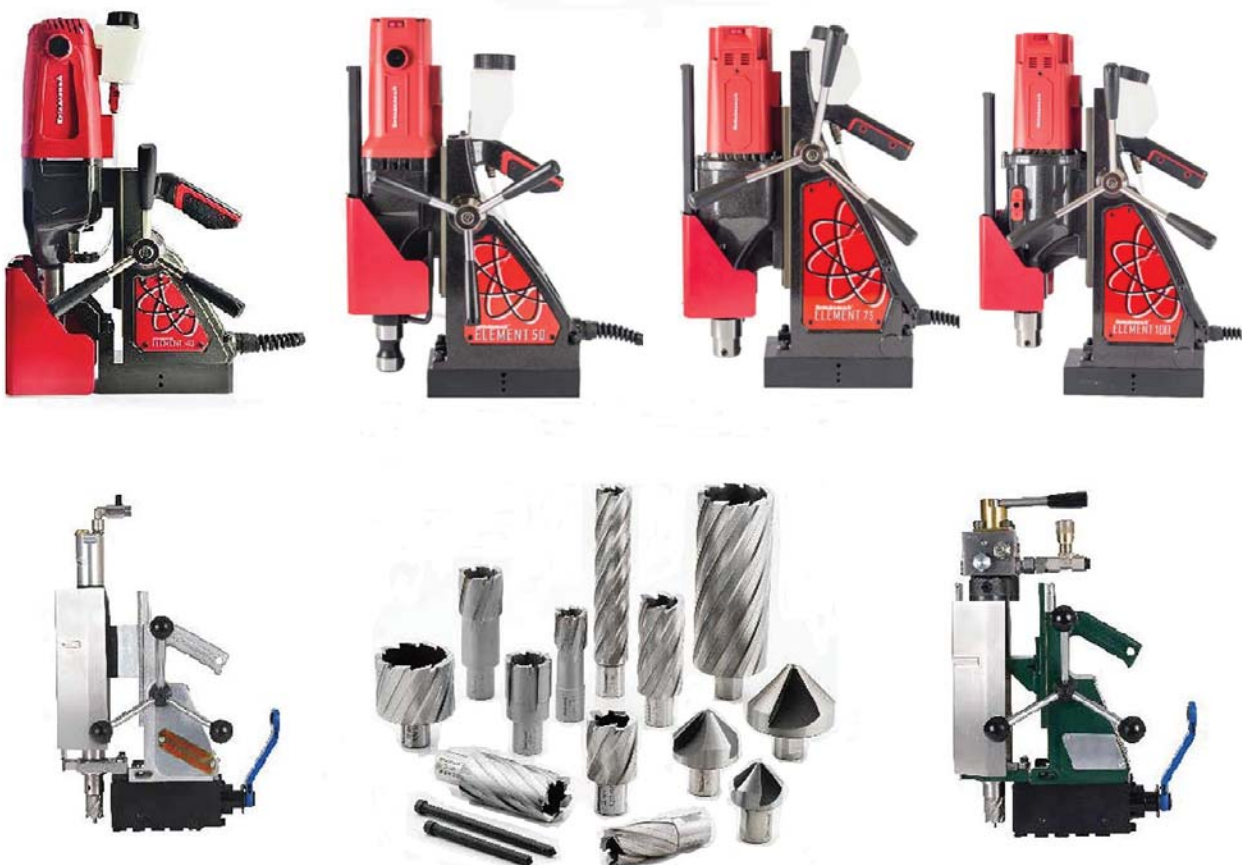
**Rotabroach Ltd  
Burgess Road  
Sheffield, South Yorkshire  
United Kingdom  
S9 3WD**

**Tel: +44 (0) 114 2212 510  
Email: [info@rotabroach.co.uk](mailto:info@rotabroach.co.uk)**

**Fax: +44 (0) 114 2212 563  
Website: [www.rotabroach.co.uk](http://www.rotabroach.co.uk)**

**Thank you for purchasing our Element 14 Chop saw.  
We would really like your feedback on this machine.**

***Other Products by Rotabroach:***



**Thank you for your purchase**

## CONTENTS OF THE MANUAL

	Page
1) Intended use	4
2) General safety rules	4
3) Information plate symbols	5
4) Unpacking	6
5) Specification	6
6) Operational safety instructions	7
7) Operating instructions	9
8) Changing the blade	13
9) Extension cable selection	14
10) Maintenance	15
11) Machine breakdown	16
12) Parts list	17
13) Trouble shooting	19
14) Warranty statement	21

## 1) INTENDED USE

The intended use of this saw, is to cut through metals. The vice is used to hold the workpiece in place whilst the saw is functioning. It is designed for use in fabrication, construction and any other applications when cutting metal.

Any deviation from its intended use will not be covered by warranty.

## 2) GENERAL SAFETY RULES

Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. This machine was designed for certain applications only. It is strongly recommended that this machine NOT to be modified and/or used for any application other than for which it was designed.

**Warning! Failure to follow these rules may result in serious personal injury.**

1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE TOOL. Learn the tool's application and limitations as well as the specific hazards peculiar to it.
2. DO NOT USE the saw without the guards in position, in good working order and properly maintained.
3. ALWAYS WEAR EYE PROTECTION.
4. GROUND ALL TOOLS. If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to for a two-prong receptacle, the adapter lug must be attached to a known ground. Never remove the third prong.
5. REMOVE ADJUSTING KEYS & WRENCHES.  
Have it a habit of checking to see that keys and adjusting wrenches are removed from tool before turning it "ON."
6. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
7. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet location, or expose them to rain. Keep work area well lighted.
8. KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept a safe distance from work area.
9. MAKE WORKSHOP CHILDPROOF- With padlocks, master switches, or by removing starter keys.
10. DON'T FORCE TOOL. It will do the job better and be safer at the rate for which it was designed.
12. WEAR PROPER APPAREL. No loose clothing, gloves, neckties, rings, bracelets, or other jewelry could get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
13. ALWAYS USE SAFETY GLASSES AND HEARING PROTECTION. Also use face or dust mask if cutting operation is dusty. Wear gloves for handling saw blades and rough material.
14. SECURE WORK. Use clamps or a vise to hold work pieces when practical. It's safer than using your hand and frees both hands to operate tool.
15. DON'T OVERREACH. Keep proper footing and balance at all times.
16. MAINTAIN TOOLS IN TOP CONDITION. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
17. DISCONNECT TOOLS before servicing and when changing accessories such as blades, bits, cutters, etc.
18. USE RECOMMENDED ACCESSORIES. The use of improper accessories may cause hazards.
19. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in "OFF" position before plugging in power cord.
20. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
21. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its Intended function -check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other part that is damaged should be properly repaired or replaced.
22. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or

cutter only.

23. NEVER LEAVE TOOL RUNNING UNATTENDED. POWER OFF. Don't leave tool until it comes to a complete stop.
24. DRUGS, ALCOHOL, MEDICATION. Do not operate tool while under the influence of drug, alcohol or any medication.
25. MAKE SURE TOOL IS DISCONNECTED FROM THE POWER SUPPLY while motor is being mounted, connected or reconnected.
26. WARNING: The dust generated by certain products can be injurious to your health. Always operate machinery in well-ventilated areas and provide for proper dust removal. Use dust collection systems whenever possible.

### 3) INFORMATION PLATE SYMBOLS



1. Refer to the user manual for operational and safety issues with regard to this machine.
2. Dispose of the machine and electrical components correctly.
3. Eye protection must be worn when operating the machine.
4. Ear defenders must be worn when operating the machine.

## 4) UNPACKING

Your saw is shipped complete in one box

**WARNING:** Although compact, this saw is heavy. To avoid back injury, get help whenever you have to lift the saw.

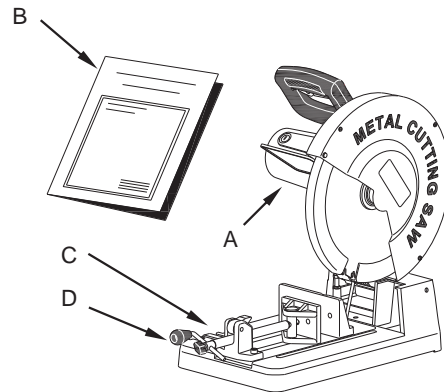
1. Remove the saw from the carton by lifting the saw with the carrying handle.
2. Place the saw on a secure, stationary work surface and look the saw over carefully.

### Table of Loose Parts

The following parts are included:

**NOTE:** Before beginning assembly, check that all parts are included. If you are missing any part, do not assemble the saw.

Part or Assembly	Qty.
A. Basic Saw Assembly.....	1
B. Owner's Manual.....	1
C. Arbor Wrench (stored on base) .....	2
D. Vise Handle.....	1



## 5) SPECIFICATION

Motor Rating	2200w	
Voltage	110-120	220-240
Amperes	15	7.5
Hertz (Cycles)	50-60	
Phase	Single	
RPM	1300	
Rotation of Shaft	Counter-clockwise	

Ear and eye defenders must be worn when operating this machine. Wear gloves to protect hands when operating the machine.

**Suitable only for a single phase 50-60Hz A.C. power supply**

**DO NOT USE ON D.C. SUPPLY**

**WARNING: THIS APPLIANCE MUST BE EARTHED!**

**NB: ANY MODIFICATIONS TO THIS MACHINE WILL INVALIDATE THE GUARANTEE**

## 6) OPERATIONAL SAFETY PROCEDURES

### **Before Using Metal Cutting Saw.**

To avoid injury from jams, slips or thrown pieces

- Completely assemble and align the saw.
- Learn the use and function of the ON-OFF switch, upper and lower blade guards, lock pin, and work piece clamp. (See "Getting to Know Your Metal-Cutting Saw" section within.)
- Review and understand all safety instructions and operating procedures in this manual.
- Review the maintenance methods for this Metal-cutting saw. (See "Maintenance section within").

To avoid injury or death from electrical shock:

- Make sure your fingers do not touch the plug's metal prongs when plugging or unplugging the Metal-Cutting saw

### **Before Each Use:**

Inspect your saw.

Disconnect the Metal-Cutting Saw. To avoid injury from accidental starting, unplug the saw, before changing the setup, changing the blade or adjusting anything.

Tighten the arbor screw.

Tighten the cover plate stop screw.

Check Damaged Parts. Check for:

- Alignment of moving parts,
- Damaged electric cords,
- Binding of moving parts,
- Broken parts,
- Stable mounting,
- Function of arm return spring and lower guard: Push the arm all the way down, then let it rise up until it stops by itself. Check the lower guard to see if it closed fully. If it did not, follow the instructions in the Troubleshooting section.
- Other conditions that may affect the way the saw works

If any part of this saw is missing, bent, or broken in any way, or any electrical parts don't work, turn the saw off and unplug it. Report to the sales store to replace damaged, missing, or failed parts before using the saw again.

Keep Guards in Place, in working order, and in proper adjustment

Maintain Tools with Care. Keep the saw clean for best and safest performance Follow instructions for lubricating

Remove Adjusting Keys and Wrenches from tool before turning it on.

- Use Only Recommended Accessories. Consult this Owner's manual for recommended accessories. Follow the instructions that come with the accessories. The use of improper accessories may cause risk of injury to persons.
  - Choose the right 355mm diameter metal cutting blade for the material and the type of cutting you plan to do.
  - Make sure the blade is undamaged and properly sharpened. Observe the maximum speed marked on the saw blade.
  - With the saw unplugged, push the power-head all the way down. Hand spin the blade and check for clearance. If the blade hits anything, make the adjustments shown in the Maintaining Maximum Cutting Capacity section.
  - Ensure the blade and arbor collars are clean.
  - Ensure the collars' recessed sides are facing the blade.
  - Using the arbor wrench supplied, make sure the arbor screw is firmly hand tightened.
  - Make sure all clamps are tight and there is no excessive play in any parts-
  - Keep work area clean and properly lighted. Cluttered areas and benches invite accidents. Floor around machine level shall be well maintained and free of loose material chip and cut-off and must not be slippery.
- Know your saw. Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as the specific potential hazards peculiar to this tool.

To avoid injury from accidental contact with moving parts, don't do layout, assembly, or setup work on the saw while any parts are moving.

Avoid Accidental Starting. Make sure switch is "OFF" before plugging Metal-cutting saw into a power outlet. Plan your work.

Use the Right Tool. Don't force the tool or attachment to do a job it was not designed to do. Use a different tool for any work piece that can't be held in a solidly braced, fixed position.

**CAUTION:** when cutting any metals, sparks or hot fragments could cause a fire.

Plan Ahead to Protect Your Eyes, Hands, Face, Ears. Any power saw can throw foreign objects into the eyes. This can result in permanent eye damage.

Wear safety goggle (not glasses) that comply with ANSI Z87.1 (shown on package). Everyday eyeglasses have only impact resistant lenses. They are not safety glasses. Safety goggles are available at Sears retail stores.

Glasses or goggles not in compliance with ANSI Z87.1 could seriously hurt you when they break.

**Dress for safety.**

- Do not wear loose clothing, gloves, neckties or jewelry (rings, wrist watches) They can get caught and draw you into moving parts.

- Wear no slip footwear-

- Tie back long hair.

- Roll long sleeves above the elbow.

- Noise levels vary widely. To avoid possible hearing damage, wear earplugs or muffs.

- For dusty operations, wear a dust mask or respirator along with safety goggles.

Plan your work to avoid thrown pieces caused when the work piece binds on the blade and is torn from your hands.

Avoid awkward operations and hand positions where a sudden slip could cause fingers or hand to move into the blade.

Don't Overreach. Keep good footing and balance.

Keep your face and body to one side of saw blade, out of line with possible thrown sparks or dusts.

**Never cut Freehand:**

- Clamp your work piece solidly against the bench and table top so it will not rock or twist during the cut.

- Make sure there's no debris between the work piece and its supports-

- Make sure no gaps between the work piece, the table will let the work piece shift after it is cut in two-

- Keep the cut off piece free to move sideways after it's cut off. Otherwise, it could get wedged against the blade and could be thrown violently.

- Clear everything except the work piece and related support devices off the table before turning the saw on.

- **Secure Work.** Use clamps or a vise to help hold the work when it's practical.

Use extra caution with large, very small or awkward work pieces:

- Use extra supports (tables, saw horses, blocks, etc.) For any work pieces large enough to tip when not held down to the table top.

- Never use another person as a substitute for a table extension, or as additional support for a work piece that is longer or wider than the basic Metal-Cutting saw table or to help feed, support or pull the work piece.

- Do not use this saw to cut pieces too small to let you easily hold the work with the clamp.

- When cutting irregularly shaped work pieces, plan your work so it will not slip and pinch the blade and be torn from the clamp.

**Whenever Saw Is Running:**

**Warning!** Don't allow familiarity (gained from frequent use of your Metal-Cutting saw) cause a careless mistake. A careless fraction of a second is enough to cause a severe injury.

Before starting your cut, watch the Metal-Cutting saw while it runs. If it makes an unfamiliar noise or vibrates a lot, stop immediately. Turn the saw off. Unplug the saw. Do not restart until finding and correcting the problem.

Keep Children Away. Keep all visitors a safe distance from the saw. Make sure bystanders are clear of the saw and work piece.

Never confine the piece being cut off. Never hold it, clamp it, touch it, or use length stops against it while the blade is spinning. It must be free to move sideways on its own. If confined, it could get wedged against the blade and thrown violently.



Let the blade reach full speed before cutting. Don't Force the Tool. It will do the job better and be safer at its designed rate. Feed the saw into the workspace only fast enough to let the blade cut without bogging down or binding.

**Before freeing jammed material:**

- Turn saw "OFF" by releasing trigger switch.
- Wait for all moving parts to stop.
- Unplug the Metal-Cutting saw.

After finishing a cut:

- Keep holding the power head down.
- Release the switch, and wait for all moving parts to stop before moving your hands.

**Before Leaving the Saw:**

Never Leave Tool Running Unattended. Turn power off Wait for all moving parts to stop.

Make Workshop Childproof. Lock the shop. Disconnect master switches. Store tool away from children and other not qualified to use the tool.

**Motor Safety Protection**

Important: To avoid motor damage, this motor should be blown out or vacuumed frequently to keep dust from interfering with normal motor ventilation.

1. Connect this tool to a power source with the appropriate voltage for your model and a 20-amp branch circuit. Use with wrong size fuse can damage the motor.

2. If the motor won't start, release the trigger switch immediately. Unplug the Tool. Check the saw blade to make sure it turns freely. If the blade is free, try to start. See the "Motor Trouble-Shooting Chart."

3. If the motor suddenly stalls while cutting, release the trigger switch, unplug the tool, and free the blade from the work piece. The motor may now be restarted and the cut finished.

4. Fuses may "blow" or circuit breakers may trip frequently if:

a: Motor is Overloaded-Overloading can occur if you feed too rapidly or make too many start/stops in a short time.

b: Line voltages should not be more than 10% above or below the nameplate voltage. For heavy loads, however, the voltage at motor terminals must equal the voltage specified for your model.

c: Improper or dull saw blade are used.

5. Most motor troubles may be traced to loose or incorrect connections, overload, low voltage (such as small size wire in the supply circuit) or to overly long supply circuit wire. Always check the connections, the load and the supply circuit whenever motor doesn't work well. Check wire sizes and length with the Wire Size Chart below.

## 7) OPERATING INSTRUCTIONS

**General Cutting Instructions**

**WARNING!** Always securely fix the material to be cut by using the vise.

**WARNING!** Always wear safety glasses and protective gloves when operating the Metal-Cutting saw.

**WARNING!** Always disconnect the tool from power source before making any adjustment.

Familiarize yourself with the following functions of the Metal-Cutting saw before connecting it to a power source and using it.

1. When starting this Metal-Cutting saw for the first time or after it has been idle for a while, always let the machine run for one full minute with the blade completely recessed into the guard before making any cuts. If there are any unknown defects in the blade that could cause breakage, they usually would do so within the first minute of operation. If the blade wobbles or vibrates, discard and replace immediately.

2. When beginning a cut with the saw, care should be exercised not to bump or slam the blade into the work; once it has entered, continue the cut with an even smooth stroke. The faster a cut is made the less heat is created in the work piece, preventing discoloring, and blade life is prolonged. Cut with maximum force without overloading the motor

3. Use an outboard support when cutting long, heavy piece to prevent them from tipping the saw or falling down after they are cut.

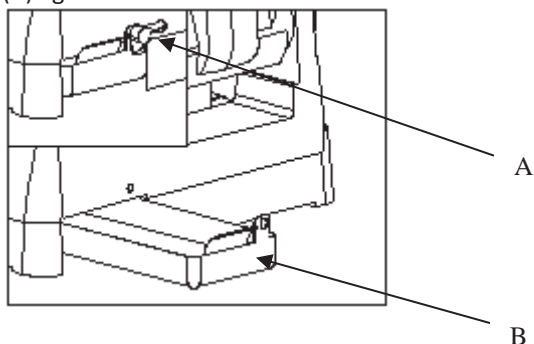
4. When transporting the saw secure the motor mount to the base to prevent damage.
5. When cut-off blade comes up to full speed, push the handle to begin cutting. It is important to cut with steady and even pressure (Do Not Force) in order to obtain a uniform cut.

**WARNING!** To avoid injury from unexpected saw movement:

- a. Before moving the saw, lock the power head in the lower position. Unplug electric cord.
- b. To avoid back injury, hold the tool close to your body when lifting. Bend your knees so you can lift with your legs, not your back. Lift by using the handhold areas at each side of the bottom of the base or by the carrying handle.
- c. Never carry saw by the power cord or the trigger grip of the plastic handle. Carrying the tool by the power cord could cause damage to the insulation or the wire connections resulting in electric shock or fire.
- d. Place the saw so other people cannot stand behind it. Thrown debris could injure people in its path.
- e. Place the saw on a firm, level surface where there is plenty of room for handling and properly supporting the work piece.
- f. Support the saw so the table is level and the saw does not rock.
- g. Bolt or clamp the saw to its support.

### Cleaning the Dust Tank

Loosen the screw (A), take out the dust tank (B) and clear it. Put back the dust tank (B) deck and tighten the screw (A) again.



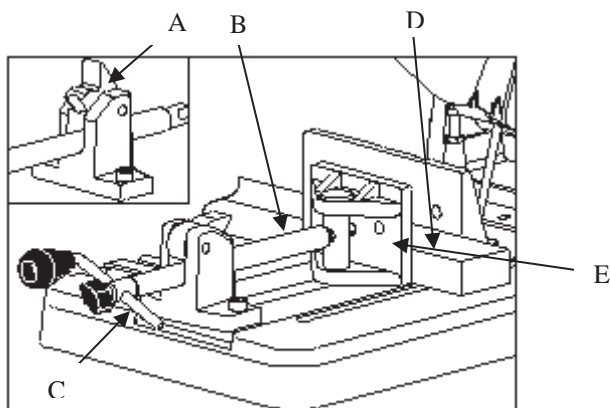
### Adjusting the Stationary Vise

Clamping the work piece can be accomplished quickly and easily as follows:

1. Lift thread-nut (A)
2. Pull out screw handle (C) far enough to allow work piece (D) to be placed in the vise opening against rear vise jaw (E) as shown.

NOTE: It is not necessary to thread screw handle (C) when the thread-nut (A) is in the raised position. The screw handle (C) can be rapidly pulled out or pushed in.

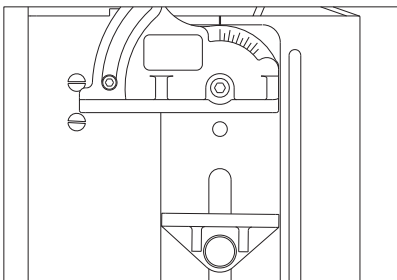
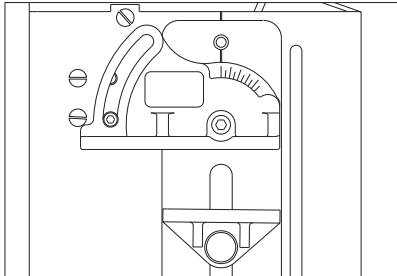
3. Push screw handle (C) until front vise jaw (E) contacts the work piece (D).
4. Flip thread-nut (A) over to engage vice screw (B) and tighten screw handle (C) to securely clamp work piece (D) in the vise.



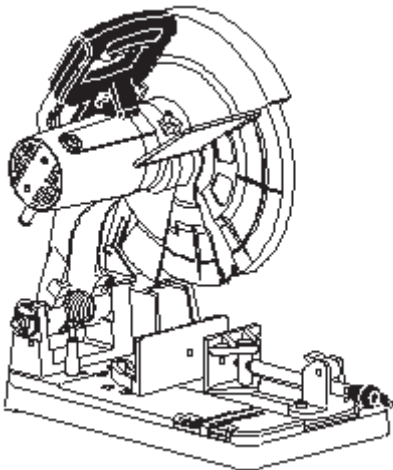
**Changing the Cutting Angle**

The vise can be adjusted from 00 to 45° right.

1. Using the arbor wrench loosen the two bolts on the vise, then set working surface on the vise at the desired angle.
2. Tighten the two bolts.

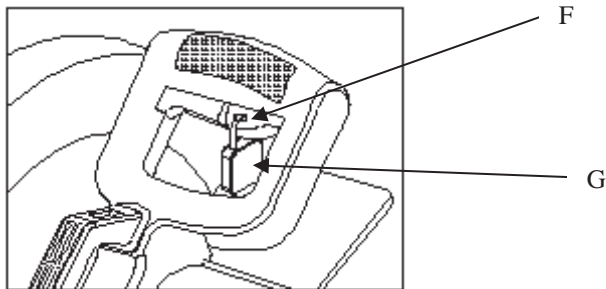
**Big Blade Guard and Small Blade Guard**

When the saw blade pressed down, the big blade guard and small blade guard appropriately separate to allow cutting of materials.



**Locking Switch, The "OFF" Position**

Important: We suggest that when the machine is not in use, the switch be locked in the "OFF" position using a padlock (G) through the holes in the switch trigger (F).

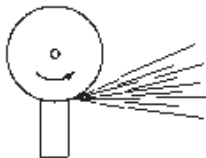
**Work piece clamping**

Positions work in vise so that if jam occurs. The blade shall not tend to move the work piece in the vise. Clamp it securely.

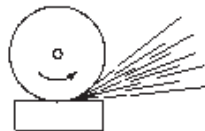
Angle bar should be clamped in a position as shown.



Generally, the saw cuts most efficiently if the blade is cutting the thinnest section at any time.



Yes









No

**Recommended Cutting Capacity**

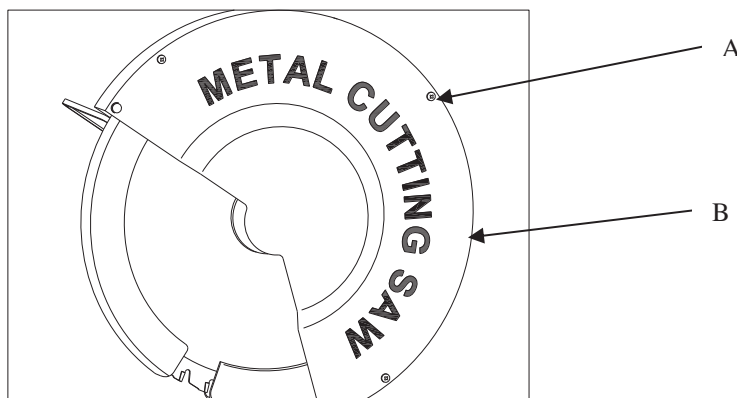
**WARNING!** Use of tool for greater than recommended capacities may lead to motor burnout and possible electric shock.

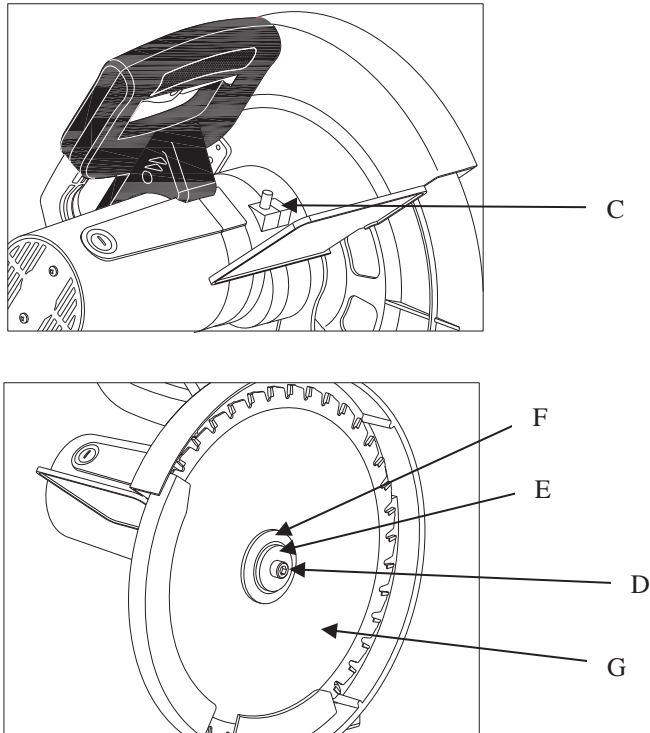
**Note:** Cutting through any cross-sectional area of material thicker than 12.7mm (1/2") tends to load up the blade, and this will cause your tool to work harder.

Applicable Blade Dimensions	350mm (14") Outer Diameter x25.4mm (1") hole diameter					
	AT 45 Degrees			AT 90 Degrees		
Work pieces Configuration (Cross-Section)						
Maximum Cutting Capacity	(4-1/8") 105mm	(3-1/2" x3-1/2") 90mm x 90mm	(3-1/4" x4") 80mm x 100mm	(5-1/8") 130mm	(4-3/4" x4-3/4") 120mm x 120mm	(3-3/4" x7") 95mm x 180mm

**8) CHANGING THE BLADE**

1. Disconnect the Machine from The Power Source.
2. Loosen the 3 screws (A), and remove the saw blade cover (B).
3. Press in on arbor lock (C) and at the same time rotate blade (G) by hand until the arbor lock is engaged
4. Using the 8 mm hex wrench provided, loosen arbor screw (D) by turning it counter clockwise, and remove arbor screw (D), washer (E), outside blade flange (F) and blade (G). **Do Not Remove Inside Blade Flange.**
5. Make sure the inside surfaces of both the inside and outside blade flanges are clean and free from any foreign substance
6. Install the new blade (G) **Making Certain the Teeth of Saw Blade are Pointing Down at The Front** and re-assemble Outside blade flange (F), washer (E) and arbor screw (D). Turn arbor (D) clockwise to tighten.
7. Replace saw blade cover that was remove in STEP 2.
8. **WARNING: MAKE SURE ARBOR LOCK (C) IS DISENGAGED AND 8 MM HEX WRENCH IS REMOVED BEFORE TURNING ON THE POWER.**





## 9) EXTENSION CABLE SELECTION

**Note:** Make sure the proper extension cord is used and is in good condition.

The use of any extension cord will cause loss of power. To keep this to a minimum and prevent overheating and motor burnout, use the information below to determine the minimum wire size extension cord.

### EXTENSION CORDS

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug. When using a power tool at a considerable distance from the power source, use an extension cord heavy enough to carry the current that the tool will draw. An undersized extension cord will cause a drop-in line voltage, resulting in a loss of power and causing the motor to overheat. Use the information provided below to determine the minimum wire size required in an extension cord. Only round jacketed cords listed by Underwriter's Laboratories approval should be used.

**For 110v supply: 3.5metres of 3 core x 1.5mm<sup>2</sup>**

**For 230v supply: 26metres of 3 core x 1.5mm<sup>2</sup>**

When working with the tool outdoors, use an extension cord that is designed for outside use. This is indicated by the letters WA on the cord's jacket.

Before using an extension cord, inspect it for loose or exposed wires and cut or worn insulation.

## 10) MAINTENANCE

**DANGER:** Never put injury from lubricants on the blade while it is spinning.

**WARNING!** To avoid injury from unexpected starting or electrical shock, unplug the power cord before working on the saw.

Keep the tool clean. Remove accumulated dust from working parts.

Make sure that the tool operates properly, periodically check screws and bolts for tightness.

Feed oil at the oiling points once a month for extending machine service life (machine oil is suitable for the saw).

- Oiling point
- Rotary part of shaft
- Rotary part of vise
- Slide way of vise

### Replacing Carbon Brushes

The carbon brushes supplied will last approximately 50 hours of running time or 10,000 on/off cycles. Replace both carbon brushes when either has less than 6.5mm length of carbon remaining. To inspect or replace brushes, first unplug the saw. Then remove the black plastic cap on the side of the motor (caution, this cap is spring loaded by the brush assembly). Then pull out the brush. Repeat for the other side. To reassemble reverse the procedure. The ears on the metal end of the brush assemble go in the same hole the carbon part fits into. Tighten the cap snugly but do not over tighten.

**NOTE:** To reinstall the same brushes, first make sure the brushes go back in the way they came out. Otherwise a break-in period will occur that will reduce motor performance and increase brush wear.

### Lubrication

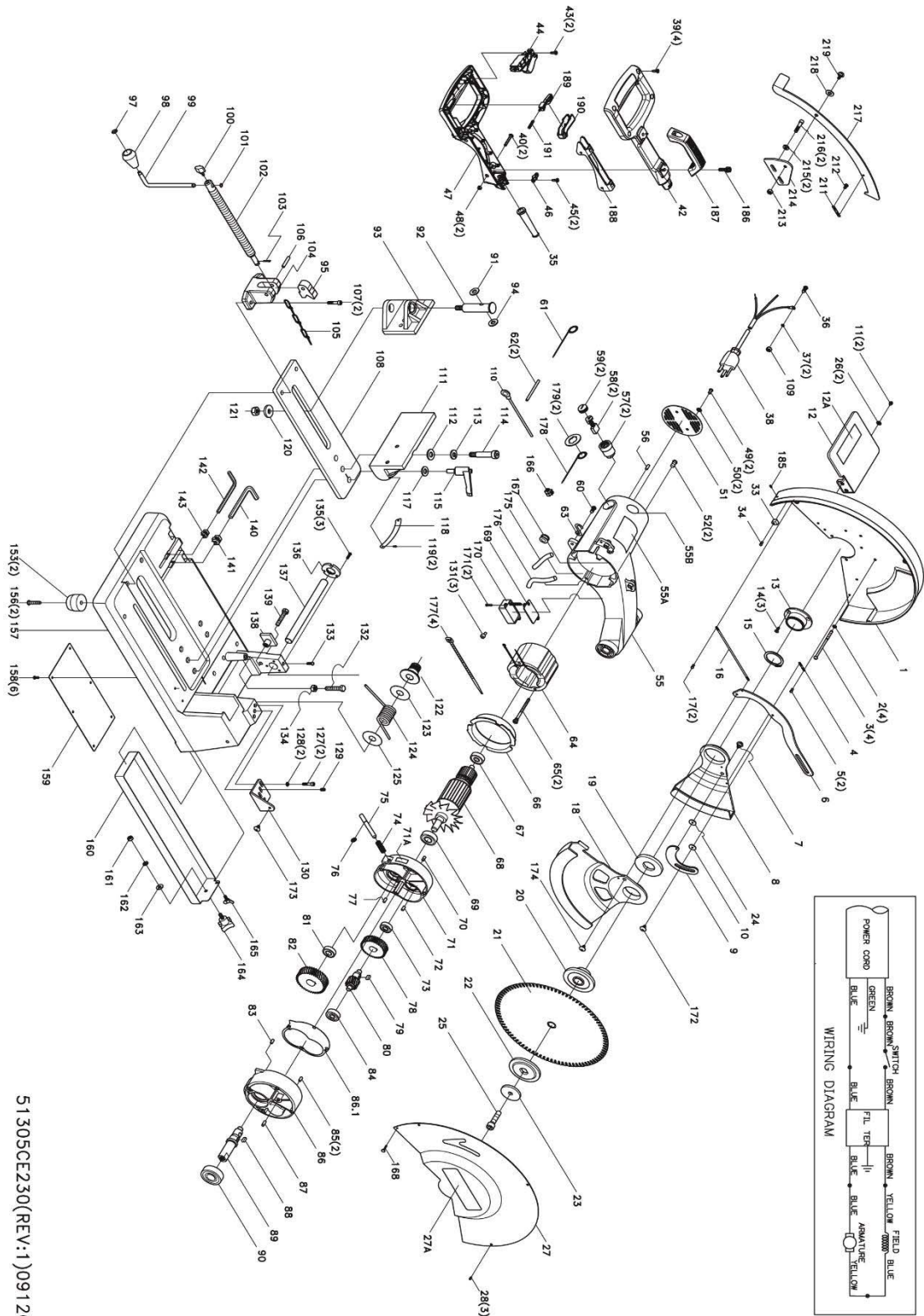
All the motor bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal operation conditions, therefore no further lubrication is required (see below).

#### Infrequent Lubrication as Required:

Chop pivot: Light machine oil or aerosol will penetrate from ends and junction points. Qualified service technician can remove pivot unstop to relieve spring tension in order to drive shaft about 19mm right. Exposed surfaces are lubricated with automotive type oil.

Central pivot of guard: Use light household oil (sewing machine oil) on metal-to-metal guard contact areas as required for smooth, quiet operation. Avoid excess oil, to which cutting debris will cling and fire hazard from sparks could be caused.

# 11) MACHINE BREAKDOWN



51305CE230(REV.1)091201



## 12) PARTS LIST

NO.	PART NUMBER	DESCRIPTION.		NO.	PART NUMBER	DESCRIPTION.	
001	Q355-001	1 SAFETY COVER	1	094	Q355-094	FLAT WASHER	1
002	Q355-002	TOOTH LOCK WASHERCOUNTERSINK	4	095	Q355-095	THREAD NUT	1
003	Q355-003	HEX SOC FLAT HD SCR	4	097	Q355-096	SELF-LOCKING NUT(CLIP)	1
004	Q355-004	SPRING	1	098	Q355-097	KNOB	1
005	Q355-005	M4X8MM PAN HD SCREW	2	099	Q355-098	HANDLE	1
006	Q355-006	LEVER	1	100	Q355-099	PLASTIC KNOB(WING SCREW)	1
007	Q355-007	SHOULDER SCREW	1	101	Q355-100	RING	1
008	Q355-008	SMALL BLADE GUARD	1	102	Q355-101	SCREW	1
009	Q355-009	LEVER	1	103	Q355-102	PIN	1
010	Q355-010	SPACER	1	104	Q355-104	SUPPORT	1
011	Q355-011	PAN HD SCREW + WASHER	2	105	Q355-105	CHAIN	1
012	Q355-012	PROTECTION PLATE	1	106	Q355-106	8MM PIN	1
012A	Q355-012A	COVER LABEL	1	107	Q355-107	HEX SOC HD SCREW +WASHER	2
013	Q355-013	BEARING BASS	1	108	Q355-108	SETTING UP PIECE	1
014	Q355-014	FLAT HD SCREW	3	109	Q355-109	HEX NUT	1
015	Q355-015	EXTL RETAINING RING	1	110	Q355-110	JUMPER WIRE	1
016	Q355-016	SPRING	1	111	Q355-111	VICE PLATE	1
017	Q355-017	M4X8MM PAN HD SCREW	2	112	Q355-112	FLAT WASHER	1
018	Q355-018	BIG BLADE GUARD	1	113	Q355-113	LOCK WASHER	1
019	Q355-019	SPACER	1	114	Q355-114	BOLT	1
020	Q355-020	FLANGE	1	115	Q355-115	LOCK LEVER	1
021	Q355-021	14" BLADE FOR METALCUTTING SAW	1	116	Q355-116	LOCK WASHER M10	1
022	Q355-022	FLANGE	1	117	Q355-117	WASHER FLATD10.5X22ODX3T	1
023	Q355-023	M10 FLAT WASHER	1	118	Q355-118	SCALE	1
024	Q355-024	SPACER	1	119	Q355-119	DRIVE SCREW	2
025	Q355-025	HEX SOC HD SCREW +WASHER	1	120	Q355-120	WASHER	1
026	Q355-026	FLAT WASHER	2	121	Q355-121	NYLON NUT	1
027	Q355-027	1 COVER 14"	1	122	Q355-122	ADJUSTING BUSHING	1
028	Q355-028	SCREW W/WASHER	3	123	Q355-123	FLAT WASHER	1
033	Q355-033	STOP	1	124	Q355-124	SPRING	1
034	Q355-034	PAN HD SCREW	1	125	Q355-125	FLAT WASHER	1
035	Q355-035	CORD GUARD	1	127	Q355-127	HEX SOC HD SCREW +WASHER	2
036	Q355-036	PAN HD SCREW	1	128	Q355-128	FLAT WASHER	2
037	Q355-037	TOOTH LOCK WASHER EXT'	2	129	Q355-129	SET SCREW	1
038	Q355-038	POWER CORD	1	130	Q355-130	BRACE BRACKET	1
039	Q355-039	SELF TAPPING SCREW	4	131	Q355-131	CONNECTOR WIRE	3
040	Q355-040	SCREW PAN HEAD M5+WASHER	2	132	Q355-132	M8X45MM HEX HD SCREW	1
042	Q355-042	HANDLE UPPER	1	133	Q355-133	SET SCREW	1
043	Q355-043	SELF TAPPING SCREW	2	134	Q355-134	NUT HEX M8X1.25	1
044	Q355-044	SWITCH	1	135	Q355-135	PAN HD SCREW + WASHER	3
045	Q355-045	SELF TAPPING SCREW	2	136	Q355-136	NUT	1
046	Q355-046	CORD CLAMP	1	137	Q355-137	SHAFT	1

NO.	PART NUMBER	DESCRIPTION.		NO.	PART NUMBER	DESCRIPTION.	
047	Q355-047	HANDEL LOWER	1	138	Q355-138	SPECIAL NUT	1
048	Q355-048	HEX NUT	2	139	Q355-139	M8X45MM HEX HD SCREW	1
049	Q355-049	PAN HD SCREW M5X12	2	140	Q355-140	8MM HEX WRENCH	1
050	Q355-050	LOCK WASHER	2	141	Q355-141	WRENCH HOLDER	1
051	Q355-051	END COVER	1	142	Q355-142	6MM HEX WRENCH	1
052	Q355-052	PAN HD SCREW M5X12	2	143	Q355-143	WRENCH HOLDER	1
055	Q355-055	MOTOR HOUSING	1	153	Q355-153	PAD	2
055A	Q355-055A	SPECIFICATION LABEL	1	156	Q355-156	PAN HD SCREW + WASHER	2
056	Q355-056	PIN RUBBER	1	157	Q355-157	BASE	1
057	Q355-057	HOLDER BRUSH	2	158	Q355-158	PAN HD SCREW + WASHER	6
058	Q355-058	BRUSH	2	159	Q355-159	SUPPORT PLATE	1
059	Q355-059	CAP BRUSH	2	160	Q355-160	CHIP BOX	1
060	Q355-060	SHOULDER SCREW	1	161	Q355-161	HEX NUT	1
061	Q355-061	JUMPER WIRE14X190MM (YELLOW)	1	162	Q355-162	WASHER FLAT	1
062	Q355-062	SLEEVE	2	163	Q355-163	LOCK WASHER	1
063	Q355-063	CHAIN HOOK	1	164	Q355-164	KNOB	1
064	Q355-064	FIELD ASS'Y 230V	1	165	Q355-165	WING SCREW	1
065	Q355-065	HEX HD SCREW + WASHER	2	166	Q355-166	TERMINAL BLOCK	2
066	Q355-066	BAFFLE	1	167	Q355-167	SLEEVE	1
067	Q355-067	BALL BEARING	1	168	Q355-168	PIN	1
068	Q355-068	ARMATURE	1	169	Q355-169	FILTER CAP	1
069	Q355-069	BALL BEARING	1	169.1	Q355-169.1	FILTER	1
070	Q355-070	PIN RUBBER	1	170	Q355-170	FILTER BOX	1
071	Q355-071	INNER GEAR HOUSING	1	171	Q355-171	PAN HD SCREW M5X12	2
071A	Q355-071A	WARNING LABEL	1	172	Q355-172	SHOULDER SCREW	1
072	Q355-072	STOP	1	173	Q355-173	SHOULDER SCREW	1
073	Q355-073	BALL BEARING	1	174	Q355-174	SHOULDER SCREW	1
074	Q355-074	SPRING	1	175	Q355-175	SLEEVE	1
075	Q355-075	LOCK PIN	1	176	Q355-176	SLEEVE	1
075. 1	Q355-075.1	LOCK PIN	1	177	Q355-177	TIE-CABLE	4
076	Q355-076	E-RING (ETW)	1	178	Q355-178	JUMPER WIRE14X230MM (BLUE)	1
077	Q355-077	STOP	1	179	Q355-179	FIBER PLATE	2
078	Q355-078	FRONT GEAR	1	185	Q355-185	SET SCREW	1
079	Q355-079	SQUARE KEY	1	186	Q355-186	M6X30MM PAN HD SCREW+WASHER	2
080	Q355-080	GEAR SHAFT	1	187	Q355-187	HANDLE CARRY	1
081	Q355-081	BALL BEARING	1	188	Q355-188	HANGER HANDLE	1
082	Q355-082	BACK GEAR	1	189	Q355-189	LOCKING BAR	1
083	Q355-083	STOP	1	190	Q355-190	TRIGGER	1
084	Q355-084	BEARING BALL6200LLU CM,	1	191	Q355-191	SPRING COMPERSSION	1
085	Q355-085	PIN	2	211	Q355-211	SPRING	1
086	Q355-086	OUTER GEAR HOUSING	1	212	Q355-212	M4X8MM PAN HD SCREW	1
086. 1	Q355-086.1	OIL SEAL	1	213	Q355-213	NUT HEX M5X0.8	1
087	Q355-087	PIN	1	214	Q355-214	BRACE BRACKET	1
088	Q355-088	SQUARE KEY	1	215	Q355-215	FLAT WASHER	2
089	Q355-089	SPINDLE	1	216	Q355-216	HEX SOC HD SCREW +WASHER	2
090	Q355-090	BALL BEARING	1	217	Q355-217	LEVER	1

NO.	PART NUMBER	DESCRIPTION.		NO.	PART NUMBER	DESCRIPTION.	
091	Q355-091	WASHER FLATD10.5X22ODX3T	1	218	Q355-218	WASHER FLAT D8	1
092	Q355-092	PIN	1	219	Q355-219	SHOULDER SCREW	1
093	Q355-093	WISE JAW	1				

### 13) TROUBLE SHOOTING

Problem	Probable Case	Suggested Corrective Action
Motor does not start	1.Fuse 2.Brushes worn 3.Other 4.Low voltage	-15amp time delay fuse, or circuit breaker. -See "Maintenance" section -Check power supply for proper voltage and Correct as needed
Brush sparking when switch released.	1.Normal automatic brake working properly	-None
Motor stalls easily	1.Low voltage 2.Excessive wheel pressure when cutting	-Check power supply for proper voltage and correct as needed -Pull wheel through work at a slower pace

#### General

Problem	Probable Case	Suggested Corrective Action
Blade hits base or work surface	1.Misalignment 2.Adjust down stop	-Check alignment
Cut not square	1.Defecitive wheel 2.Work not positioned properly 3.Excessive wheel pressure	-Replace immediately -Position work properly -Lessen wheel pressure
Power head won't fully rise or blade guard won't fully close	1.Lubrication needed 2.Part failure 3.Pivot spring or guard spring not replaced properly after service 4.Dirt sticking to stops	-See "Lubrication" section  -Inspect/clean stops

Blade binds, jams, burns workpiece. Rough cuts	1.Improper operation 2.Dull blade 3.Improper blade	-See " Operation" section -Replace or sharpen wheel -Replace with 14" diameter wheel designed for the material being cut
Tool vibrates or shakes	1.Sawblade not round 2.Sawblade damaged 3.Sawblade loose 4.Other	-Replace wheel -Replace wheel -Tighten arbor screw
Power head hard to pull/push down	1.Lube needed	-See- "Lubrication" section

## 14) WARRANTY STATEMENT

Rotabroach<sup>TM</sup> warrants its machines to be free from faulty materials, under normal usage of machines, for a period of 12 months from initial date of purchase. All other parts (excluding cutters) are under warranty for 90 days, provided that the warranty registration card (or online registration) has been completed and returned to Rotabroach<sup>TM</sup> or its designated distributor within a period of (30) days from the purchase date. Failure to do so will void the warranty. If the stated is adhered to Rotabroach<sup>TM</sup> will repair or replace (at its option) without charge any faulty items returned.

### This Warranty does not cover:

1. Components that are subject to natural wear and tear caused by the use not in accordance with the operators instructions
2. Defects in the tool caused by non-compliance with the operating instructions, improper use, abnormal environment conditions, inappropriate operating conditions overload or insufficient servicing or maintenance.
3. Defects caused by using accessories, components or spare parts other than original Rotabroach<sup>TM</sup> parts.
4. Tools to which changes or additions have been made.
5. Electrical components are subject to manufacturer's warranty.

Your online registration can be submitted at [www.rotabroach.co.uk](http://www.rotabroach.co.uk)

The warranty claim must be logged within the warranty period. This requires the submission or sending of the **complete** tool in question with the original sales receipt which must indicate the purchase date of the product. A complaint form must also be submitted prior to the return.

This can be found online at [www.rotabroach.co.uk](http://www.rotabroach.co.uk). Failure to complete this form will result in the delay of your claim. All goods returned defective must be returned pre-paid to Rotabroach<sup>TM</sup>, in no event shall Rotabroach<sup>®</sup> be liable for subsequent direct, or indirect loss or damage.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, (EXPRESSED OR IMPLIED) INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ROTABROACH<sup>TM</sup> RESERVE THE RIGHT TO MAKE IMPROVEMENTS AND MODIFICATIONS TO DESIGN WITHOUT PRIOR NOTICE

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