

# Original Instructions

# ***MAG-12008 SERIES***

## ***PROFESSIONAL LAWN MOWER BLADE CLEANERS***



**System 16 Workstation**

# THANK YOU,

We sincerely appreciate your decision to make Magna-Matic your lawn mower blade sharpener. We understand there are other choices in the marketplace, and we are extremely confident that after the first few blades you sharpen, it will be evident you've chosen the best machine for the job. Rest assured that if you have a question or problem you will have complete customer support for all of our products.

800-328-1110 (USA & CANADA) or 920-564-2366

<https://www.magna-matic.com>

**Please be sure all the items are in the box and inspect for shipping damage, or for missing parts. Contact Magna-Matic right away to remedy any problems due to shipping. 800-328-1110**

## BOX INVENTORY

### ***MAG-12008 BLADE CLEANER***

- **MAG-12008 Blade Cleaner**
- **(1) Instruction Manual**

**Note: If you purchased a full system with stand and other items, we may pack other parts like the stand table top in the same box with the blade cleaner. Do inspect all the packaging and do not throw away packaging until you have inspected everything.**

### **UNPACK MAG-12008**

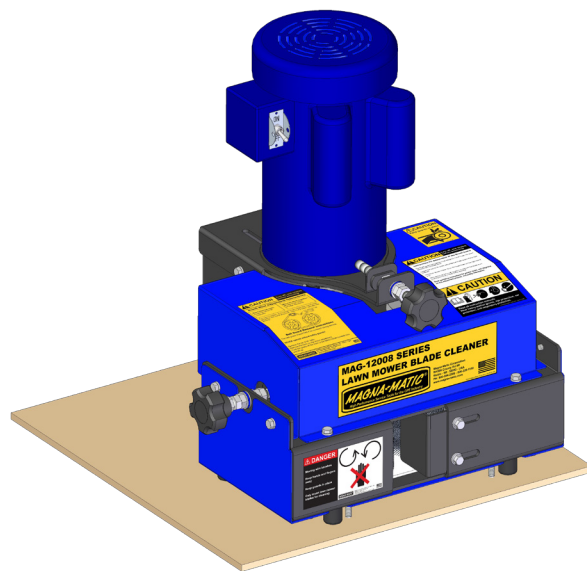
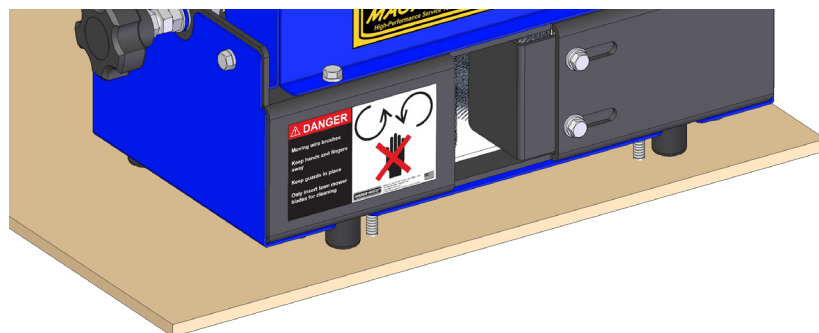
Unpack the MAG-12008, please keep the box and packaging in case of shipping damage or any need for return.

### **REMOVING WOOD SHIPPING BASE**

You will require a 1/2" wrench to remove the (4) 5/16" bolts holding the wood shipping base. Refer to the picture below.

### **ASSEMBLY NOTES**

The MAG-12008 comes completely assembled, no additional assembly is required. See page 6 for testing and inspection.



# THE SAFE WAY IS THE ONLY WAY TO WORK!



## WARNING

WHEN USING ELECTRIC TOOLS, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY.



## CAUTION




LAWN MOWER BLADES HAVE SHARP EDGES - ALWAYS WEAR PROTECTIVE GLOVES AND SAFETY GLASSES!














**Before handling any equipment read and understand the instructions.**

- **Grounding Instructions** - This tool must be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved three conductor cord and three prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) wire is the grounding wire.
- **Extension Cords** - Use only three wire extension cords which have three prong grounding type plugs and three pole receptacles which accepts the tool's plug. Replace or repair damaged cords.
- **Keep Work Area Clean** - Clean benches and floors to prevent slip, trip, or falls.
- **Consider Working Environment** - Don't use power tools in damp or wet locations. Keep work area well lit. Don't expose power tools to rain.
- **Do not use tool** in presence of flammable liquids or gases.
- **Keep Children Away** - All visitors should be kept a safe distance from the work area. Do not let visitors have contact with the tool or the extension cord.
- **Store Idle Tools** - When not in use, tools should be stored in dry, high or locked-up places out of reach of children.
- **Do Not Force Tool** - It will do the job better and safer at the rate for which it was designed.
- **Do Not Over-Reach** - Keep proper footing and balance at all times
- **Use Safety Glasses** - Also face or dust mask-wrap around goggles, or other eye protection.
- **Wear Proper Apparel** - Do not wear loose clothing or jewelry that can get caught in moving parts. Gloves and non-skid footwear are required when working. Wear protective hair covering to contain long hair.
- **Do Not Abuse Cord** - Never carry tool by cord or pull it to disconnect from receptacle.
- **Keep cord away** from heat, oil, and sharp edges.
- **Disconnect Tool** - When not in use; before servicing; when changing grinding wheels.
- **Avoid Accidental Starting** - Don't carry plugged in tool. Be sure switch is off when plugging in.
- **Grinding Wheels** - Use only grinding wheels having a maximum operating speed of 5500 RPM.  
**KEEP GUARDS IN PLACE.**
- **Guard Against Electrical Shock** - Prevent body contact with grounded surface. For example: pipes, radiators, etc.
- **Stay Alert** - Watch what you are doing. Use common sense. Do not operate tool when you are tired, or under the influence of any drugs or alcohol.
- **Check Damaged Parts** - Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function.
- **Check for alignment** of moving parts, breakage of parts, mounting and any other condition that effect its operation. All parts should be properly repaired or replaced. Do not use this tool if the switch does not turn it on or off.
- **Never Leave Tool Unattended** - Turn the power off. Don't leave the tool until it comes to a complete stop.
- **Read "A Primer on Grinding Wheel Safety"** <https://www.magna-matic.com>

# SAFETY LABELS

SAFETY COLOR	DEFINITION
 <b>DANGER</b>	Interaction with the hazard will cause severe injury or death.
 <b>WARNING</b>	Interaction with the hazard could cause severe injury or death.
 <b>CAUTION</b>	Interaction with the hazard could cause minor or moderate injury.

SAFETY ICON	DEFINITION
     	
	Read all included manuals and bulletins included with this equipment.
	Always wear protective gloves when operating this equipment.  Gloves are required.
	Always wear protective eye wear when operating this equipment.  Eye protection required.
	Always wear protective hearing protection when operating this equipment.  Hearing protection required.
	Always wear respiratory protection when operating this equipment.  Respiratory protection required.

SAFETY ICON	DEFINITION
 	Keep clear of the grinding wheel. Contact will cause severe cuts or abrasions.  Always keep safety guards in place.
 	Disconnect power before servicing machine  Always keep safety panels in place.
 	Keep clear of pulleys and belts. Contact will cause severe injury.  Always keep safety guards in place.

## QUICK START VIDEOS



**WARNING:** Cancer and Reproductive Harm-  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

# OPERATION/SAFETY



**NEVER OPERATE THE MAG-12008 WITHOUT HEAVY LEATHER GLOVES - BLADES HAVE SHARP EDGES  
!WEAR SAFETY GEAR!**

**It is REQUIRED to use a vacuum or air cleaner with the MAG-12008.** If the MAG-12008 is not attached to a vacuum or other air cleaning device a face mask or respirator must be worn.

## FIRST TIME TESTING



**CAUTION**

**TURN OFF  
AND UNPLUG  
BEFORE SERVICING!**



**WARNING**

**WHEN USING ELECTRIC TOOLS, BASIC  
SAFETY PRECAUTIONS SHOULD ALWAYS  
BE FOLLOWED TO REDUCE  
THE RISK OF FIRE, ELECTRIC SHOCK,  
AND PERSONAL INJURY.**

### FIRST USE INSPECTION

This is an important inspection to check for any possible shipping damage. The MAG-12008 is inspected and tested at the factory and packaged to be ready-to-use, however shipping damage or very rough handling could cause misalignments. Inspect the two plastic knobs and the motor fan guard.

### DUAL VOLTAGE MOTOR

**The MAG-12008 is shipped wired as 110 volt.**

The 1.5 HP industrial motor used in the MAG-12008 is a dual voltage motor, it can be wired to run 110 volt or 220 volt.

### AFTER THE FIRST 24 - 48 HOURS OF USE

Re-tension the belt after the first 24 to 48 hours of operation, when belts will be completely seated in grooves.

### FACTORY TESTING

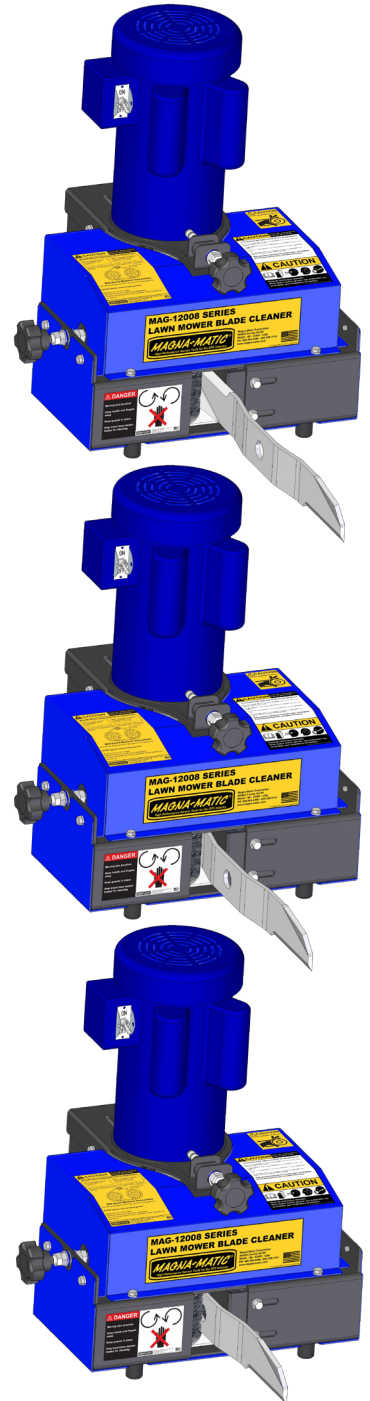
After the MAG-12008 is assembled at the factory it is inspected and tested. The cleaner is run for 5 minutes continuous to aid in belt tension and belt seating. After 5 minutes run time, the belt is re-tensioned. The above testing procedures are to check for any possible damage or changes due to shipping, and for your safety.



# OPERATION

The MAG-12008 is intended **ONLY** for the cleaning of lawn mower blades. Follow these instructions to properly operate the MAG-12008 and achieve the highest productivity.

1. Wear proper safety gear as outlined in this manual. (refer to page 6)
2. Ensure there is nothing in the brush opening
3. Place the ON/OFF SWITCH in the ON position (located on the motor)
4. Hold the lawn mower blade firmly with both hands, while wearing protective leather gloves. **NEVER** stand in the path of the brush opening.
5. Insert the lawn mower blade slowly into the brushes. As the blade is inserted you may feel a slight push or pull. This is caused by the lift of the blade, or other curvatures.
6. **NEVER INSERT MORE THAN HALF OF THE BLADE INTO THE MAG-12008**
7. Generally a blade will require approximately 30 seconds per half of the blade.
8. Repeat steps 1-6 on the remaining dirty half of the blade.
9. To apply additional pressure to the lift or other curvatures in a lawn mower blade to remove debris from the corners. It is acceptable to move the blade to the left or right - using it as a lever against the brushes to concentrate the brushes in one place on the blade.



## QUICK START VIDEOS



# BLADE SERVICE



## WARNING

WHEN USING ELECTRIC TOOLS, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY.



## CAUTION

LAWN MOWER BLADES HAVE SHARP EDGES - ALWAYS WEAR PROTECTIVE GLOVES AND SAFETY GLASSES!

The MAG-12008 Lawn Mower Blade Cleaner is only ONE step in the process to properly servicing a lawn mower blade. In this section we will provide a short synopsis - please refer to details in your balancing instrument, and sharpener manuals.

After the lawn mower blade has been cleaned:

1. Visually inspect the blade for cracks or fractures  
(ALWAYS DISCARD FRACTURED BLADES)
2. Place the lawn mower blade on the MAG-1000 Series Balancing Instrument to check the straightness to see if the blade has been bent from use.(ALWAYS DISCARD BENT BLADES)
3. If the lawn mower blade is free from fractures and straight, next sharpen both edges of the blade at a consistent angle with either the MAG-8100 or MAG-8200 Professional Lawn Mower Blade Sharpeners (see MAG-8100 or MAG-8200 manuals)
4. Once both edges are at the proper angle and sharp, place the lawn mower blade on the MAG-1000 Series Balancing Instrument to check the balance. (see MAG-1000 manual)
5. Lastly the blade should be packaged to return it to the customer - or mounted back onto the lawn mower.

**Please scan the QR code  
and watch all the videos on  
the MAG-12008 it will make  
any use or servicing of the  
machine much easier.**

**QUICK START  
VIDEOS**



# BRUSH SPECIFIC SAFETY INFORMATION

## READ THIS PAGE

### Summary - Power Brush Safety Requirements

1. **Safety Goggles:** Safety goggles or full face shields worn over safety glasses with side shields **MUST BE WORN BY ALL OPERATORS IN THE AREA** of power brush operations. Comply with the requirements of ANSI Z87.1 "Occupational Eye and Face Protection."
2. **Guards:** Keep all machine guards in place.
3. **Speeds:** Observe all speed restrictions indicated on the brushes, containers, labels, or printed in pertinent literature. "MSFS" means Maximum Safe Free Speed (R.P.M.) - spinning free with no work applied. For reasons of safety the "MSFS" should not be exceeded under any circumstance.
4. **Safety Standard:** Comply with the Safety Standard of the Industrial Division of the American Brush Manufacturers' Association and the American National Standards Institute Standard ANSI B165.1 "Safety Requirements - Power Brushes."
5. **Protective Equipment:** Appropriate protective clothing and equipment (such as gloves, respirator, etc) must be used where a possibility of injury exists that can be prevented by such clothing or equipment.

**Warning:** In normal power brushing operations the material being removed, such as burrs, scale, dirt, weld slag, or other residue, will fly off the brush with considerable force along with the brush filaments which break off due to fatigue.

The potential of serious injury exists for both the brush operator and others in the work area (possibly 50 or more feet from the brush). To protect against this hazard, before rotating the brush operators and others in the area must wear **SAFETY GOGGLES** or **FULL FACE SHIELDS WORN OVER THE SAFETY GLASSES WITH SIDE SHIELDS**, along with **PROTECTIVE CLOTHING**.

You must follow all operator and safety instructions, as well as common safety practices which will reduce the likelihood of severity of physical injury.

Many brush manufactures mark some safety warnings, recommendations, and usage restrictions directly on the product. It is not always practical to include even the most limited safety information on the brush itself. Therefore the operator **MUST READ** and **FOLLOW** all instructions supplied in or on the product container as well as those marked on the product itself. The operator should also refer to the safety and operating information printed in the brush manufacturer's catalog and other literature.

**Pressure:** Avoid excessive pressure when using a power brush. Excessive pressure causes over-bending of the filaments and heat build-up resulting in filament breakage, rapid dulling, and reduced brush life.

**Inspection and Storage:** Upon receipt, inspect brushes for damage rust, and deterioration. Store in original containers in a clean, dry location. Do not allow distortion of brush filaments/components or foreign matter to become lodged in brush face.

**Dust and Fumes:** Wear respiratory protection against this hazard (see ANSI Z88.2).

**Speed:** Make sure the maximum operating speed (Max. RPM) marked on the wire brush is at least as high as the "NO LOAD" speed shown on the nameplate of the power tool.

**Starting the brush:** Before rotating the brush, during rotation, and until rotation stops, operators and other in the area must wear safety goggles, or full face shields over safety glasses with side shields. Brushes should be run at operating speed for at least one minute before applying work. Inspect for flutter or vibration that might be caused by poor installation or a damaged brush. During this time, no one is to stand in front of or in line with the brush.

**Mounting brushes:** Inspect brushes before mounting for damage, rust or other types of deterioration. Brush arbor hole and spindle diameter should be the same. Install the brush securely on the tool.

**Brush problems:** Do Not Allow Unsafe Conditions to Continue - Occasionally due to worn bearings, a bent spindle, and unusual application, operator abuse, or inappropriate use, a brush may fail. Do not use or continue to use a failed brush or one which is functioning improperly (i.e., throwing filaments, out-of-balance, etc) as this increases the possibility for further brush failure and hazard of injury. The cause of failure should be evaluated and corrected.

ABMA - 2111 West Plum St, Ste 274 - Aurora IL 60506 - [www.abma.org](http://www.abma.org)

This information is based on the collective experience of the ABMA Industrial Division members and provided solely as a public service for the guidance of the users of the members' products. These recommendations are not necessarily complete with respect to any particular application and common sense safety considerations should be adhered to generally. Any applicable federal, state, local law or regulation, must be strictly adhered to, and its controlling over any recommendation contained herein.

### AVAILABILITY OF ANSI STANDARDS

On this page reference is made to these ANSI Standards: ANSI B165.1, ANSI Z87.1, ANSI Z88.2. Copies of these standards are available at Public Libraries and from American National Standards Institute Inc (ANSI) 1430 Broadway, New York, NY 10018, or ABMA.



# BRUSH ADJUSTMENT



## CAUTION

LAWN MOWER BLADES HAVE SHARP EDGES - ALWAYS WEAR PROTECTIVE GLOVES AND SAFETY GLASSES!

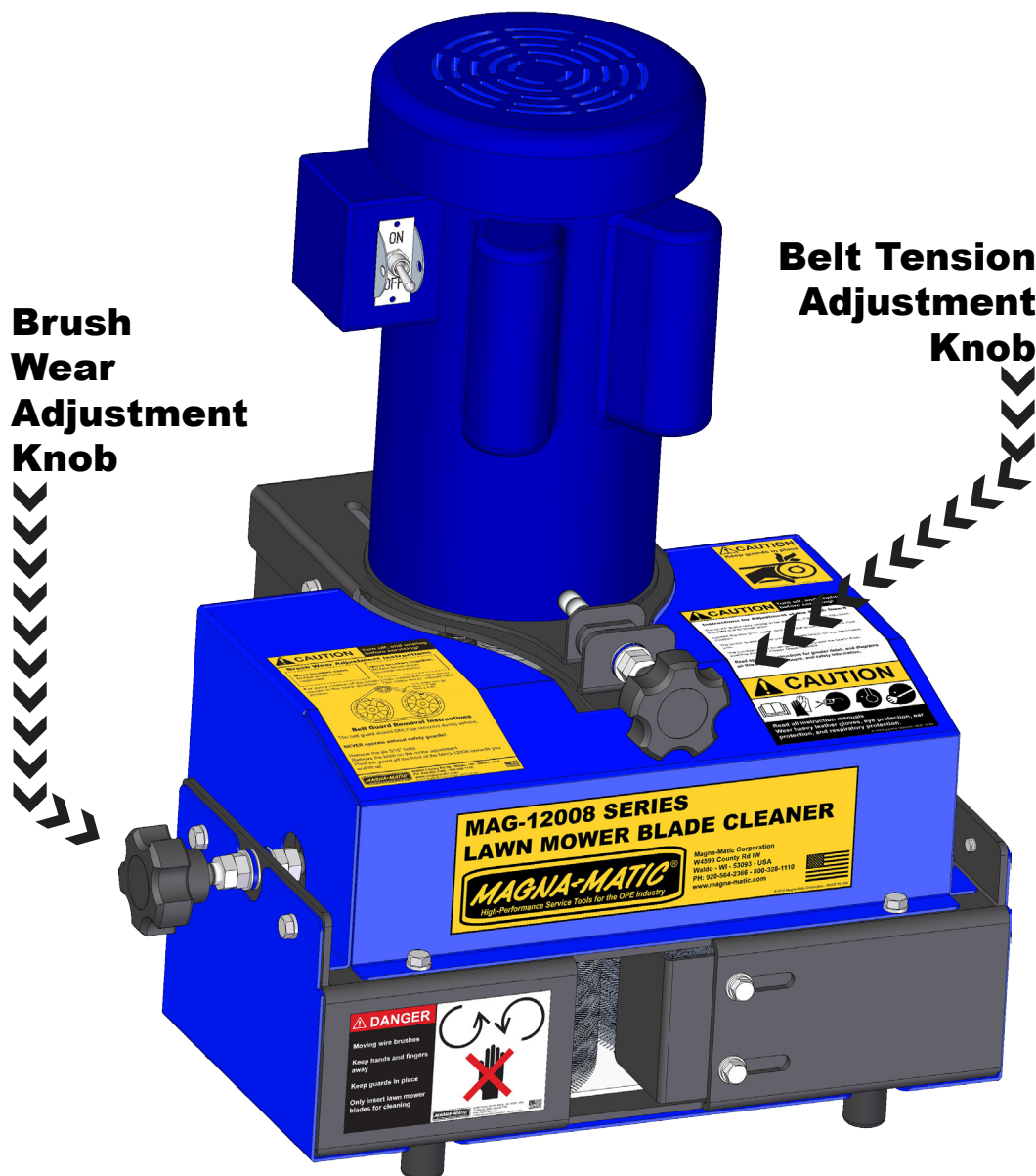
Brush adjustments will need to be made as the brushes wear. There are two knobs for adjustments. The knob on the left-side moves the left-side brush for wear adjustment. The knob in the center below the motor moves the motor to increase or reduce belt tension.

### TO MOVE THE BRUSHES TOGETHER:

1. Rotate the brush knob counter-clockwise
2. Rotate the motor knob counter-clockwise an equal number of rotations to increase belt tension

### TO MOVE THE BRUSHES APART:

1. Rotate the brush knob clockwise
2. Rotate the motor knob clockwise an equal number of rotations to increase belt tension



# BRUSH GUARD ADJUSTMENT



## CAUTION

LAWN MOWER BLADES HAVE SHARP EDGES - ALWAYS WEAR PROTECTIVE GLOVES AND SAFETY GLASSES!

There is a brush safety guard between the two gangs of brushes in the MAG-12008, this prevents the right-hand brush from kicking the blade towards the operator. When the brushes are adjusted for wear, the brush safety guard must also be adjusted to cover the right-hand brush.

1. Turn off, and unplug the MAG-12008
2. Loosen the (2) two 5/16" bolts (1/2" wrench required)
3. Slide the brush safety guard so that the guard covers the right-hand brush.
4. Place the guard in the position shown in the image below.
5. Torque the (2) two 5/16" bolts to 15 ft-lbs

### QUICK START VIDEOS



## BRUSH ENGAGEMENT

The space between the brushes should be approximately 1/2 the thickness of the blade. The right and left gangs of brushes should not be touching each other. If the blade has very high lifts, or extreme curvatures, more space may be required between the brushes.

If you place the brushes closer together you will get more aggressive cleaning, but it will be more difficult to push the blade into the brushes.

# BRUSH REPLACEMENT



## CAUTION

TURN OFF  
AND UNPLUG  
BEFORE SERVICING!



## CAUTION

ALWAYS WEAR PROTECTIVE GLOVES,  
FACE MASK, AND SAFETY GLASSES!

### REPLACE BRUSHES WHEN THEY REACH 6" DIAMETER

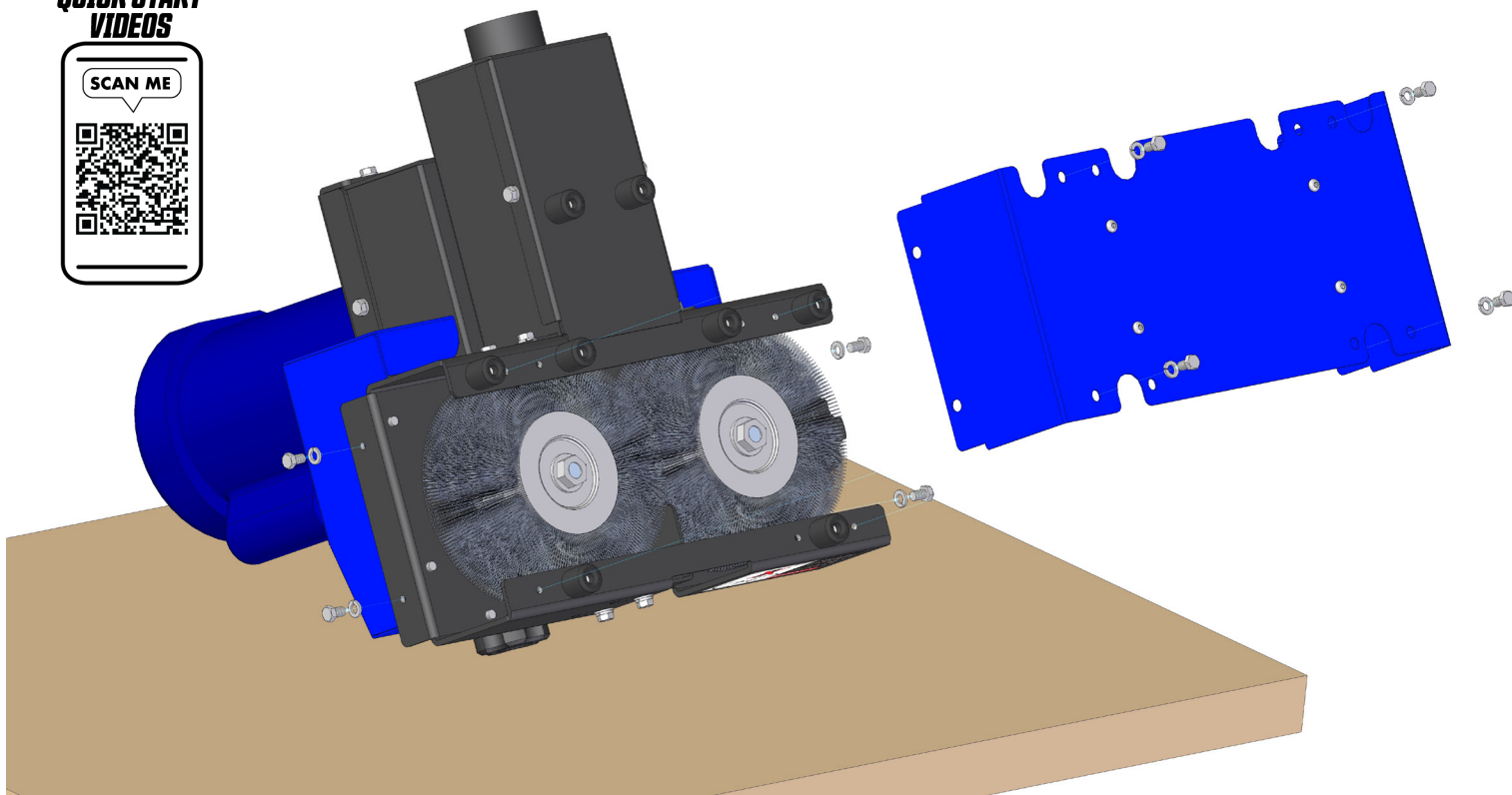
When brushes are less than 6" dia. they will not have the flexibility to move around the lift and other curvatures of a lawn mower blade.

1. Turn off, and unplug the MAG-12008
2. Lay the MAG-12008 on its face, so the bottom of the machine can be accessed. (see below)
3. Remove the (8) eight 5/16" bolts (1/2" wrench required)
4. Pull the base of the MAG-12008 off to expose the brushes
5. Remove the **LEFT-HAND THREADED 5/8"** nut holding the brushes on the drive shaft (15/16" wrench required) do this for both brush gangs.
6. **WEAR GLOVES WHEN HANDLING THE BRUSHES, THEY ARE SHARP!**
7. Remove the brushes, and bushings, there is a bushing between each brush to evenly space them within the MAG-12008.
8. Replace all (8) six brushes
9. Torque the 5/8" nut to 45 ft-lbs
10. Replace the base of the MAG-12008

### IMPORTANT NOTE:

**ALL CLEANERS  
MADE AFTER  
10/17/2013 HAVE  
8 BRUSHES AND  
8 SPACERS**

**QUICK START  
VIDEOS**

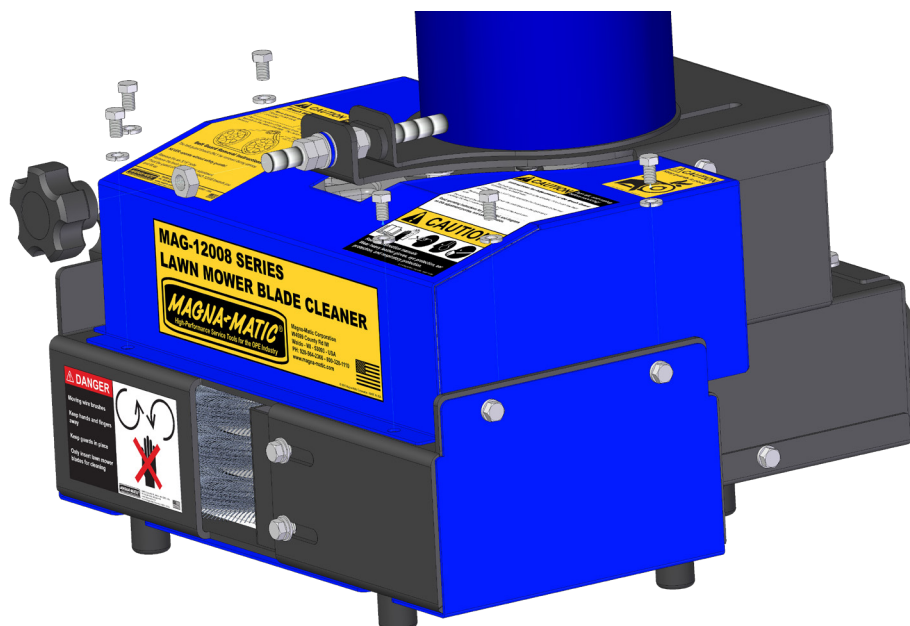


# BELT/PULLEY GUARD REMOVAL

To remove the belt/pulley guard follow the outlined steps:

1. Turn off and unplug the MAG-12008
2. Remove the (6) six 5/16" hex bolts that fasten the pulley guard (1/2" socket required) (see first image below)
3. Remove the adjustment knob (3/4" wrench required)
4. Lift the back of the pulley guard up towards the front of the MAG-12008, pivoting off the front of the pulley guard. Then lift the pulley guard straight up. (see second image below)
5. With the cover off examine the belt tension.

**QUICK START  
VIDEOS**



# BELT TENSION

## INCREASING BELT TENSION

Adding tension is done by turning the motor knob counter-clockwise (this moves the motor pulley towards the back of the MAG-12008)

## DECREASING BELT TENSION

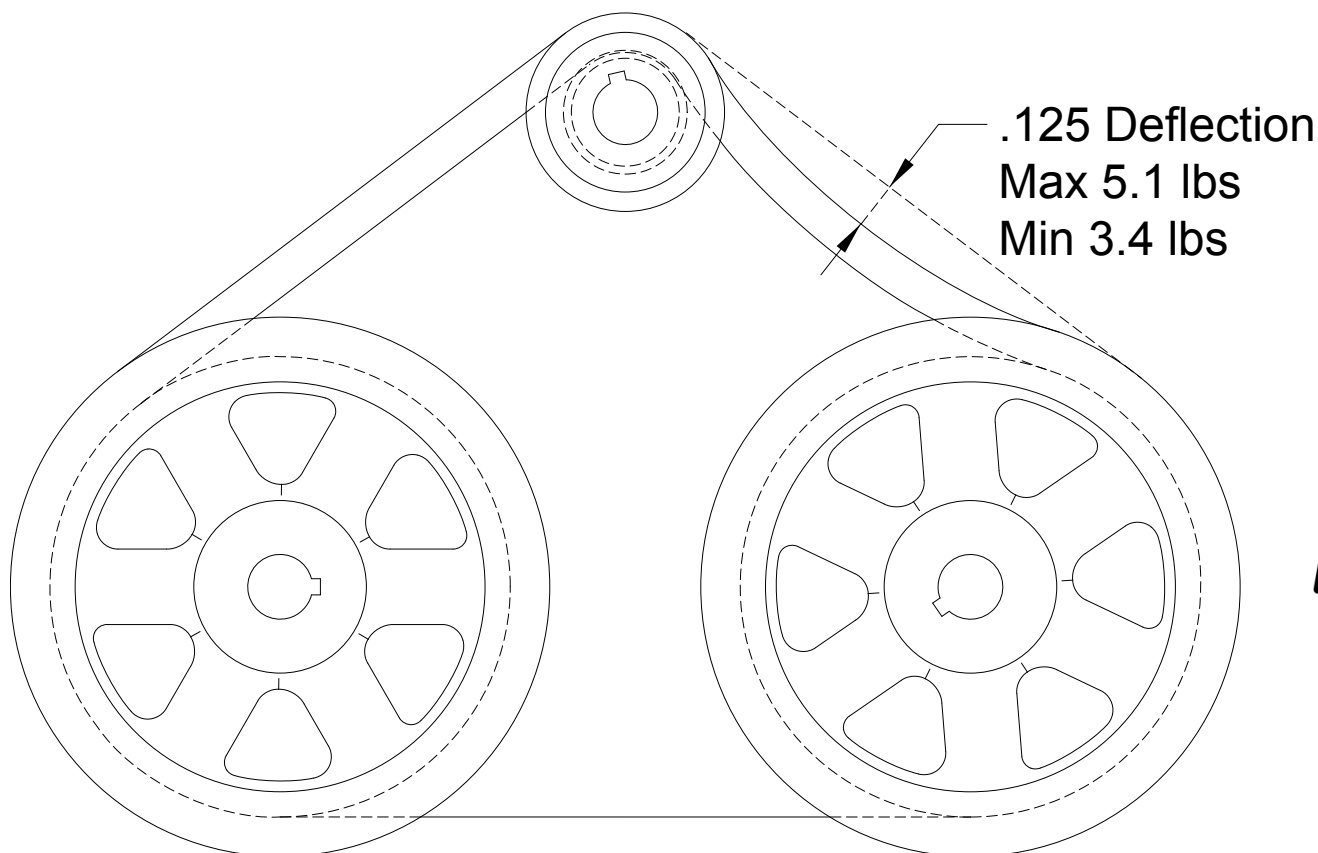
Reducing tension is done by turning the motor knob clockwise (this moves the motor pulley towards the front of the MAG-12008)

## BELT WEAR

Over the life of the belt it will stretch, and belt tensioning will be required even if brush wear does not occur. Inspect belt tension each season or monthly under heavy use.

## IMPORTANT BELT INFORMATION

- Ideal tension for a V-belt drive is the lowest tension at which a belt will not slip under peak load.
- Tension belt, replace belt guard, run the drive for 15 minutes, and apply full load. Re-tighten slipping or squealing belts.
- Re-tension the belt after the first 24 to 48 hours of operation, when belts will be completely seated in grooves.
- DO NOT use belt dressing. If belt slips, tighten and/or check for worn sheave grooves.



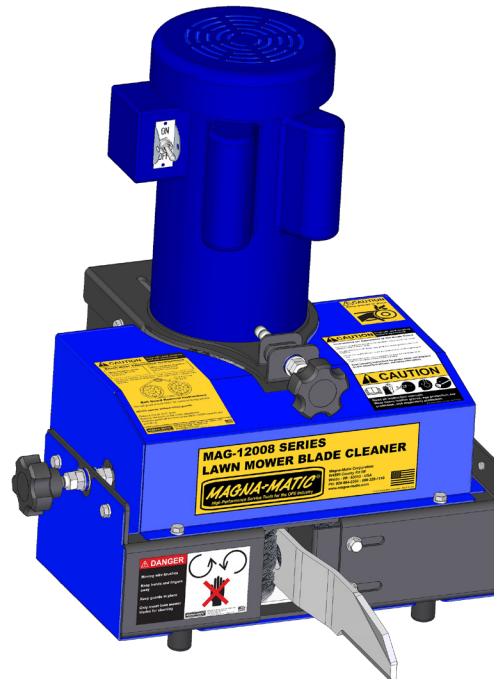
**QUICK START  
VIDEOS**





# SPECIFICATIONS

The MAG-12008 can clean  
a lawn mower blade up to  
30" long x 3.75" wide



CE

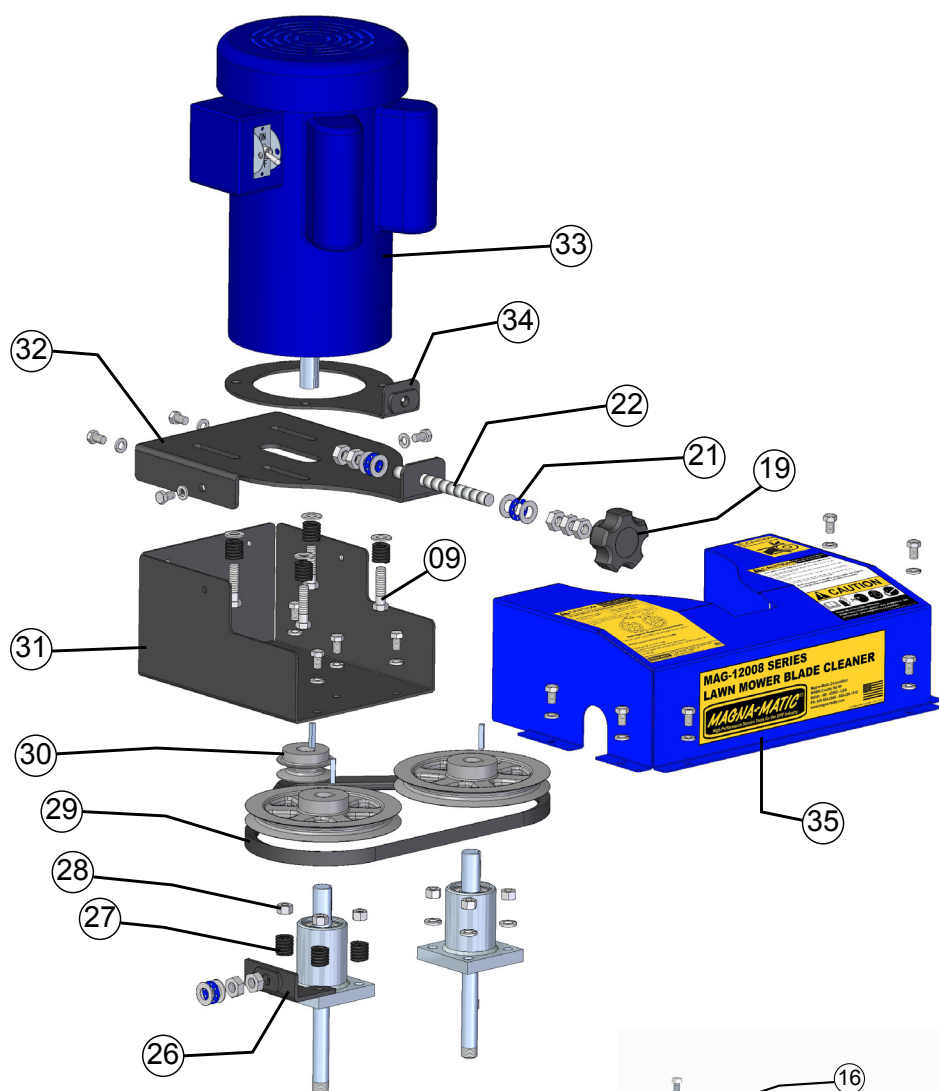
	MAG-12008 (North America)	MAG-12008 (Euro)
Dimensions L x W x H	23" x 20" x 20"	58.4 cm x 50.8 cm x 50.8 cm
Weight	124 lbs	56 kg
Motor Spec	BALDOR®/LEESON®	BALDOR®/LEESON®
Horse Power	1.5	1.5
RPM	1725	1425
Duty Cycle	Standard	Standard
Hertz	60	50
Volts	220 / 110	220
Amps (start)	106 amps / 53 amps	53
Amps (run)	17 amps / 8 amps	7.7
Phase	1	1
Capacitors	Dual (two capacitors)	Dual (two capacitors)
Solid State Switch	No	No
Motor Type	Industrial - Totally Enclosed	Industrial - Totally Enclosed
Direction	Single Direction	Single Direction
Fan Cooled	Yes	Yes
Transmission	Belt Drive	Belt Drive
Brush Diameter	8 inches	
Brush Type	Crimped Carbon Steel	Crimped Carbon Steel

# TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Motor fails to start	Motor is mis-wired.	Verify motor is wired correctly per information supplied.
Motor fails to start	Fan guard bent/damaged and contacting fan.	Replace fan guard, if possible, straighten it.
Motor has been running, then fails to start	Fuse or circuit breaker tripped.	Replace fuse or reset the breaker.
Motor has been running, then fails to start	Capacitor (on single phase motor) may have failed.	First discharge capacitor. To check capacitor, set volt-ohm meter to RX100 scale and touch its probes to capacitor terminals. If capacitor is OK, needle will jump to zero ohms, and drift back to high. Steady zero ohms indicates a short circuit; steady high ohms indicates an open circuit.
Motor has been running, then fails to start	Starting switch has failed.	Disassemble motor and inspect both the centrifugal and stationary switches. The weights of the centrifugal switch should move in and out freely. Make sure that the switch is not loose on the shaft. Inspect contacts and connections on the stationary switch. Replace switch if the contacts are burned or pitted.
Motor has been running, then fails to start	Motor overloaded or load jammed.	Inspect to see that the load is free. Verify amp draw of motor versus nameplate rating.
Motor has been running, then fails to start	Stator is shorted or went to ground. Motor will make a humming noise and the circuit breaker or fuse will trip.	Disassemble motor and inspect windings and internal connections. A blown stator will show a burn mark. Motor must be replaced or the stator rewound.
Motor runs but dies down	Voltage drop	If voltage is less than 10% of the motor's rating contact power company or check if some other equipment is taking power away from the motor. If motor is run using an extension cord, verify that this extension cord is properly sized for motor's current draw.
Motor runs but dies down	Load increased	Verify the load has not changed. Verify equipment hasn't got tighter. If fan application verify the air flow hasn't changed.
Motor takes too long to accelerate	Defective capacitor	Test capacitor per previous instructions.
Motor takes too long to accelerate	Faulty stationary switch.	Inspect switch contacts and connections. Verify that switch reeds have some spring in them.
Motor takes too long to accelerate	Bad bearings.	Noisy or rough feeling bearings should be replaced.
Motor takes too long to accelerate	Voltage too low.	Make sure that the voltage is within 10% of the motor's nameplate rating. If not, contact power company or check if some other equipment is taking power away from the motor.
Motor runs the wrong direction	Incorrect wiring	Rewire motor according to wiring schematic provided.
Motor overload protector continually trips	Ambient temperature too high.	Verify that the motor is getting enough air for proper cooling. Most motors are designed to run in an ambient temperature of less than 40°C. (Note: A properly operating motor may be hot to the touch.)
Motor overload protector continually trips	Protector may be defective.	Replace the motor's protector with a new one of the same rating.
Motor overload protector continually trips	Winding shorted or grounded.	Inspect stator for defects, or loose or cut wires that may cause it to go to ground.
Start capacitors continuously fail.	Voltage to motor is too low.	Verify that voltage to the motor is within 10% of the nameplate value. If the motor is rated 115V, the deviation must be calculated from 115V.

PROBLEM	CAUSE	SOLUTION
Short belt life	Worn or damage grooves	Replace sheaves (pulleys)
Separation of cover plies. Soft, stick swollen side-walls.	Oil or grease	Remove source of oil or grease and clean belt with detergent and water.
Broken belt	Excessive tension	Reduce tension
Broken belt	Objects hitting belts	Protect drive with guards supplied
Spin burns	Slippage	Re-tension drive
Spin burns	Water or oil	Clean belt and protect guard
Unequal stretch	Mis-aligned drive	Re-align and re-tension drive
Belt noise	Slippage	Re-tension drive
Vibration	Belt too loose	Re-tension
Belt turnover	Debris in grooves	Clean grooves and protect drive with guard
Belt turnover	Mis-aligned sheaves (pulleys)	Re-align sheaves (pulleys)
Belt turnover	Worn sheave grooves (pulleys)	Replace sheaves (pulleys)
Brushes slip while cleaning a blade	Belt is loose	Re-tension drive
Brushes slip while cleaning a blade	Brush drive shafts have come loose	Remove brush cover page 15 and tighten brush shaft nuts
Blades are not coming out clean	Brushes are too far apart	Adjust brushes together as well as brush guard see page 13
Difficult to adjust motor or brush	Object obstructing the path of adjustment	Inspect adjustment path and remove obstruction
Difficult to adjust motor or brush	Die springs are too tight	Re-tighten die springs to spec 0.75" (compressed spring height)
Adjustment moved on its own	Die springs are too loose	Re-tighten die springs to spec 0.75" (compressed spring height)
Motor does not start or hums	Brushes are interfering	Adjust brushes so they do not interfere see page 13

# PARTS DIAGRAMS



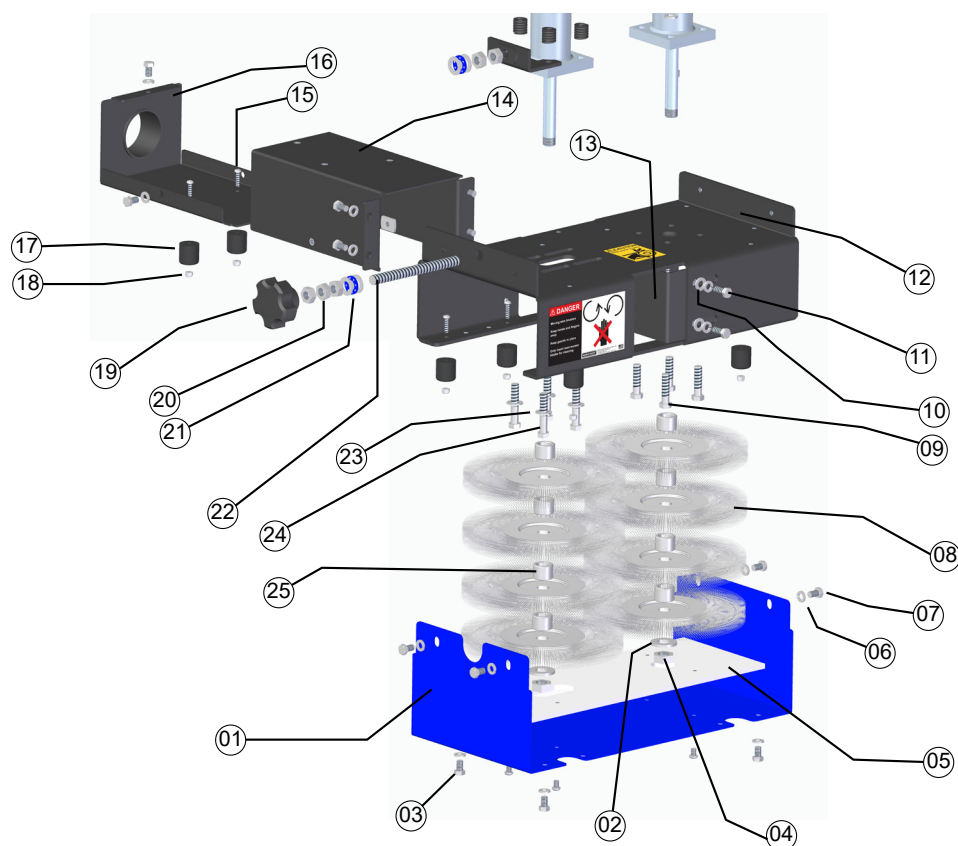
**QUICK START  
VIDEOS**

SCAN ME



## IMPORTANT NOTE:

**ALL CLEANERS  
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10/17/2013 HAVE  
8 BRUSHES AND  
8 SPACERS**



# PARTS DIAGRAMS

## MAG-12008 Lower Parts Key

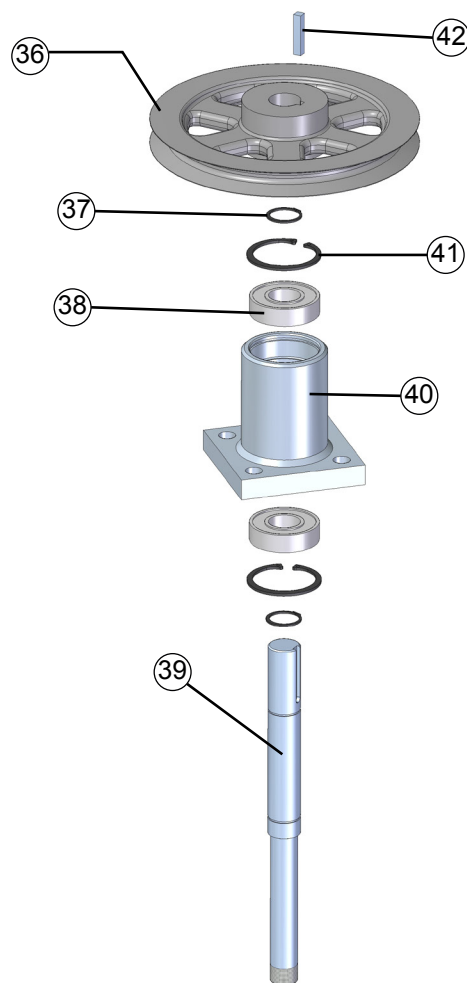
Key #	Part #	Description
01	12008-07	Brush cover (machine base cover)
02	H-625WFZ	Brush washer 5/8" (2 req)
03	H-25C37BSSZ	1/4 button head screw 3/8" long (4 req)
04	H-625FLJNZ	5/8" left-hand jam nut (2 req)
05	12008-26	plastic wear pad
06	H-31WLZ	5/16" lock washer (32 req)
07	H-31C500HSZ	5/16" bolt 1/2" long (30 req)
08	12008-20	Brush (6 req)
09	H-37C150HSZ	3/8" bolt 1.5" long (8 req)
10	H-31WFZ	5/16" flat washer (2 req)
11	H-31C75HSZ	5/16" bolt 3/4" long (2 req)
12	12008-08	Main body
13	12008-06	Work table / brush safety guard
14	12008-04	Exhaust top box
15	H-18C75BSSss	10-24 screw 3/4" long (8 req)
16	12008-05	Exhaust bottom box
17	9000-11	Rubber bumper (foot) (8 req)
18	H-18CNINFZ	10-24 nylon insert nut (8 req)
19	12008-32	Knob 1/2" insert (2 req)
20	H-50CNFZ	1/2" nut (10 req)
21	12008-33	1/2" thrust bearing (4 req)
22	12008-27	Brush adjustment rod (2 req)
23	H-37WFZ	3/8" flat washer (8 req)
24	H-37C200HSZ	3/8" bolt 2" long (4 req)
25	12008-11	Brush spacer bushing

## MAG-12008 Upper Parts Key

Key #	Part #	Description
26	12008-09	Bearing block adjustment plate
27	12008-24	Die spring (8 req)
28	H-37CNFZ	3/8" nut (8 req)
29	12008-16	Cogged V-belt
30	12008-18	Motor pulley
31	12008-03	Motor box bottom
32	12008-02	Motor box top
33	12008-25	1.5 HP Motor
34	12008-01	Motor slider bracket
35	12008-10	Pulley guard/cover

## MAG-12008 Spindle Parts Key

Key #	Part #	Description
36	12008-19	Brush pulley (2 req)
37	12008-21	External retaining ring (4 req)
38	12008-17	Bearing (4 req)
39	12008-12	Drive shaft (2 req)
40	12008-13	Bearing block (2 req)
41	12008-22	Internal retaining ring (4 req)
42	H-187KEY	3/16" keyway square (3 req)



# WARRANTY

MAGNA-MATIC CORPORATION (the "Manufacturer") warrants Manufacturer's products (the "Products") will be free from defects in manufacture by Manufacturer (the "Warranty"). The Warranty will be effective and valid for a period of one (1) or two (2) years, as indicated on the Warranty certificate or Manufacturer's website (<http://www.magna-matic.com>), beginning on the date in which Manufacturer ships the Product (the "Warranty Period") from manufacturer's facility directly to Manufacturer's distributor or customer/end user (the "Customer"). The Warranty shall obligate Manufacturer to repair or replace (in Manufacturer's discretion) defective Products as provided below. Manufacturer shall maintain records, including Manufacturing Process Instructions, for all Products for a period equal to the Warranty Period. Upon the expiration of the Warranty Period, Manufacturer will have no further obligation to Customer with respect to a Product that is non-conforming and/or defective for any other reason.

To take advantage of the Warranty, Customer must take the following three steps: (1) Customer must promptly notify Manufacturer after Customer becomes aware that it has a defective Product, which in all events must be within thirty (30) days of Customer's discovery of the defect and within the Warranty Period; and (2) Customer must provide detailed digital pictures and/or must return the defective Product to Manufacturer immediately thereafter and/or make the Product available to Manufacturer for inspection (at Manufacturer's request/discretion), and in no event more than thirty (30) days after any notification provided in (1) above; and (3) Customer must insure the defective Product until Manufacturer receives and accepts it. After Customer has taken the above steps, Manufacturer will evaluate the Product to determine if Customer's warranty claim is valid and to determine what, if any, remedy is available to Customer. Customer must return or make available all defective Products with complete documentation associated with the defective Product.

The Warranty shall be invalidated if: (1) damage to the Product is the result of misuse or abuse by Customer or any end user of the Product; or (2) if the Product has been modified by Customer or any end user of the Product; or (3) if any defects in the Products are caused as a result of Manufacturer following Customer's specifications in manufacture that contain any problems, faults, errors, miscalculations, or discrepancies in the specifications. If Manufacturer decides to repair or replace the defective Product, Manufacturer will ship the repaired or replaced Product (both, a "Repaired Product") F.O.B. the shipping point and all of the provisions in this Warranty pertaining to the Products will apply to the Repaired Product, including but not limited to, the risk of loss provisions set forth above. Notwithstanding the prior sentence, the Warranty Period for a Repaired Product will not be restarted, but instead will expire at the same time as though the Repaired Product was never a defective Product but rather the Product at all times.

THE WARRANTY PROVIDED HEREUNDER IS THE ONLY WARRANTY MANUFACTURER PROVIDES TO CUSTOMER, AND SHALL BE IN THE PLACE OF ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE OR NONINFRINGEMENT, OR ANY OTHER OBLIGATION ON MANUFACTURER'S PART. NO ORAL OR WRITTEN STATEMENTS MADE BY MANUFACTURER, EXCEPT THOSE MADE IN THIS WARRANTY SHALL BE CONSIDERED A WARRANTY OR CONSIDERED TO HAVE ANY LEGAL EFFECT. ADDITIONALLY, NO SAMPLES, MODELS, OR PROTOTYPES MANUFACTURER PROVIDES TO CUSTOMER SHALL BE CONSIDERED A WARRANTY OR CONSIDERED TO HAVE ANY LEGAL EFFECT.

CUSTOMER'S EXCLUSIVE REMEDIES FOR MANUFACTURER'S BREACH OF WARRANTY SHALL BE ONE OF THE FOLLOWING: (A) THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT; OR (B) THE REFUND OF THE PRICE CUSTOMER PAID FOR THE DEFECTIVE PRODUCT. THE REMEDIES SET FORTH ABOVE SHALL BE DETERMINED IN MANUFACTURER'S SOLE DISCRETION. ANY SHIPPING COSTS ASSOCIATED WITH VALID WARRANTY PRODUCTS THAT MANUFACTURER AND CUSTOMER HAVE MUTUALLY AGREED UPON SHALL BE PAID BY MANUFACTURER.

UNDER NO CIRCUMSTANCES WILL MANUFACTURER BE LIABLE FOR ANY INDIRECT, SPECIAL, PUNITIVE, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE SALE, MANUFACTURE, OR USE OF THE PRODUCT, WHETHER BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT, OR ANY OTHER LEGAL THEORY. MANUFACTURER'S LIABILITY IN CONNECTION WITH THE SALE OR USE OF THE PRODUCT WILL NOT EXCEED THE PRICE OF THE PRODUCT UNDER ANY CIRCUMSTANCES. BY WAY OF EXAMPLE, IF A SINGLE PRODUCT CAUSES ANY DAMAGES, MANUFACTURER'S LIABILITY WILL NOT EXCEED THE PRICE OF THAT SINGLE PRODUCT. DAMAGES REFERRED TO IN THIS PROVISION INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF PROFITS, REVENUE, OR USE OF THE PRODUCT; THE COST OF CAPITAL, SUBSTITUTE PRODUCTS, REPLACEMENT PRODUCTS, OR DOWN TIME; ANY CLAIMS OF THIRD PARTIES, INCLUDING, BUT NOT LIMITED TO, CUSTOMER'S CUSTOMERS OR OTHER USERS; DEATH; PERSONAL INJURY; AND INJURY TO PROPERTY.

## CE DECLARATION OF CONFORMITY

Manufacturer Declaration

According to EC Machinery Directive 2006/42/EC, Annex II A

We, MAGNA-MATIC W4599 County Road IW Waldo, WI 53093, herewith declare, that the following machine complies with the appropriate basic safety and health requirements of the EC Directive based on its design and type, as brought into circulation by us. In case of alteration of the machine, not agreed upon by us, this declaration will lose its validity.

Machine: MAG 12008, MAG 8000, MAG 9000, MAG-8100, MAG-8200

Applicable EC Directives:

EC Machinery Directive 2006/42/EC  
EC Low - Voltage Directive 2006/95/EC

Applicable Harmonized Standards:

BSENISO 12100:2010  
BSEN 61029-1:2009+A11:2010  
BSEN 61029-2-4:2011

Printed Name: Gerd F. Bauer II  
Title: Vice President  
Date: 1 January 2015

Authorized Signature:



Magna-Matic Corporation  
W4599 County Road IW  
Waldo WI 53093 USA

Phone: (920) 564-2366 - FAX: (920) 564-2368  
Toll Free USA & Canada **1-800-328-1110**  
<http://www.magna-matic.com>  
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