

**B-2**  
**7" Spinner**  
**Edger (CE)**

## READ THIS BOOK

This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your American Sanders machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If your operator(s) cannot read this manual, have it explained fully before attempting to operate this machine.

All directions given in this book are as seen from the operator's position at the rear of the machine.

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## **WARNING!**

The Products sold with this Manual contain or may contain chemicals that are known to certain governments (such as the State of California, as identified in its Proposition 65 Regulatory Warning Law) to cause cancer, birth defects or other reproductive harm. In certain locations (including the State of California) purchasers of these Products that place them in service at an employment job site or a publicly accessible space are required by regulation to make certain notices, warnings or disclosures regarding the chemicals that are or may be contained in the Products at or about such work sites. It is the purchaser's responsibility to know the content of, and to comply with, any laws and regulations relating to the use of these Products in such environments. The Manufacturer disclaims any responsibility to advise purchasers of any specific requirements that may be applicable to the use of the Products in such environments.

**\*\*\*This product is intended for commercial use only\*\*\***




## Operator Safety Instructions



In this Operation Manual you will find three statements that you must read and observe to ensure safe operation of this machine.



**DANGER** means: Severe bodily injury or death can occur to you or other personnel if the **DANGER** statements found on this machine or in this Operation Manual are ignored or are not adhered to. Read and observe all **DANGER** statements found in this Operation Manual and on your machine.



**WARNING** means: Injury can occur to you or to other personnel if the **WARNING** statements found on your machine or in the Operation Manual are ignored or are not adhered to. Read and observe all **WARNING** statements found in this Operation Manual and on your machine.



**CAUTION** means: Damage can occur to the machine or to other property if the **CAUTION** statements found on your machine or in this Operation Manual are ignored or are not adhered to. Read and observe all **CAUTION** statements found in this Operation Manual and on your machine.



 **DANGER:** Failure to read the Owner's Manual prior to operating or servicing your American Sanders machine could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If you or your operator(s) cannot read English, have this manual explained fully before attempting to operate this machine.  


 **DANGER:**   
A. Sanding/finishing wood floors can create an explosive or combustible environment. Do not operate this machine around solvents, thinners, alcohol, fuels, floor finishes, wood dust or any other flammable materials. Cigarette lighters, pilot lights, electrical sparks and all other sources of ignition should be extinguished or avoided. Keep work area well ventilated.  
B. Dust generated from sanding wood floors can spontaneously ignite or explode. Promptly dispose of any sanding dust in a metal container clear of any combustibles. Do not dispose in a fire.


 **DANGER:**   
A. Electrocution could occur if the machine is being serviced while the machine is connected to a power source. Disconnect the power supply before servicing.  
B. Electrocution or fire could occur if the machine is being operated with a damaged power cord. Keep the power cord clear of the pad. Always lift the cord over the machine. Do not move the machine by the power cord.  
C. Shock hazard. Do not use the machine if it has been rained on or sprayed with water.

 **DANGER:**   
To avoid injury keep hands, feet, and loose clothing away from all moving parts on the machine. Disconnect the power cord before replacing the pad, changing the abrasive, or when servicing. Do not operate the machine unless all guards are in place. Never leave the machine unattended while connected to a power source.

 **WARNING:** Injury can occur if protective clothing or equipment is not used while sanding. Always wear safety goggles, protective clothing, and dust mask while sanding. 

 **WARNING:**   
This sander is not to be used on pressure treated wood. Some pressure treated woods contain arsenic and sanding pressure treated wood produces hazardous dust. Inhaling hazardous dust from pressure treated wood can cause serious injury or death. Sanding pressure treated wood decks or uneven surfaces can damage the sander which is not covered under warranty or damage waiver.

 **WARNING:** Any alterations or modifications of this machine could result in damage to the machine or injury to the operator or other bystanders. Alterations or modifications not authorized by the manufacturer voids any and all warranties and liabilities.

 **WARNING:** Risk of explosion. Floor sanding can result in an explosive mixture of fine dust and air. Use floor sanding machine only in a well-ventilated area free from any flame or match.

## General Power Tool Safety Warnings

**WARNING:** Read all safety warnings and instructions. Failure to follow warnings and instructions may result in electric shock, fire and or serious injury.

Save all warnings and instructions for future use.

*The term "power tool" in the warnings refers to your main-operated (corded) power tool or battery operated (cordless) power tool.*

### 1) Work area safety

- Keep work area clean and well lit.** Clutter or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gasses, or dust.** Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

### 2) Electrical safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of cord suitable for outdoor use reduces the risk of electric shock.

- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) or ground fault circuit interrupter (GFCI ) protected supply.** Use of a RCD or GFCI reduces the risk of electric shock.

### 3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injury.
- c) **Prevent unintentional starting. Ensure switch is in off-position before connecting to power source and/or battery pack, picking up, or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- d) **Remove any adjustment wrench or key before turning the power tool on.** A wrench or key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust related hazards. It is recommendation that the tool always be supplied via a residual current device with a rated residual current of 30mA or less.

### 4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories or storing power tools.** Such preventative safety measures reduce the risk of starting the power tool accidentally.
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- g) **Use the power tool, accessories and tool bits ect. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.

### 5) Service

- a) **Have the power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

### Safety Warnings For Sanding Operations

1. This power tool is intended to function as a sander. Read all safety warnings, instructions and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, or personal injury.
2. Operations such as grinding, wire brushing, polishing or cutting-off, are not recommended to be performed with this power tool. Operations for which the tool was not designed may create a hazard and cause personal injury.
3. Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.
4. The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.
5. The outside diameter and thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guard or controlled.
6. The arbor size of wheels, flanges, backing pads or any other accessory must fit the spindle of the power tool. Accessories with arbor holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
7. Do not use damaged accessory. Before each use inspect the accessory such as abrasive wheel for chips or cracks, backing pad for cracks, tear or excess wear, wire brush for loose or cracked wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting or installing an accessory, position yourself or bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will normally break apart during this time.

8. Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping flying debris generated by various operations. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operations. Prolonged exposure to high intensity noise may cause hearing loss.
9. Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of work piece or a broken accessory may fly away and cause injury beyond immediate area of operation.
10. Hold power tool by gripping insulated surfaces (handle) only, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and shock the operator.
11. Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your arm or hand may be pulled into the spinning accessory.
12. Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.
13. Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
14. Regularly clean the power tools air vents. The motor's fan will draw the dust inside the housing and excessive accumulation may cause electrical hazards.
15. Do not operate the power tool near flammable materials. Sparks could ignite these materials.
16. Do not use excessively oversized sanding disc paper. Follow manufacturer's recommendations when selecting sanding paper. Larger sanding paper extending beyond the sanding pad presents a laceration hazard and may cause snagging, tearing of the disc or kickback.
17. Risk of explosion. Floor sanding can result in an explosive mixture of fine dust and air. Use floor sanding machine only in a well-ventilated area free from any flame or match.

### **Kickback and Related Warnings**

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating backing pad which in turn causes uncontrolled power tool to be forced in the opposite direction of the backing pad's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the work piece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

1. Maintain a firm grip on the power tool and position your body and arms to allow you to resist kickback forces. Always use auxiliary handles, if provided for maximum control over kickback or torque reactions during start up. The operator can control torque reactions or kickback forces, if proper precautions are taken.
2. Never place your hand near the rotating accessory. Accessory may kickback over your hand.
3. Do not position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in the direction opposite to the wheel's movement at the point of the snagging.
4. Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.

### **Additional Rules For Safe Operation**

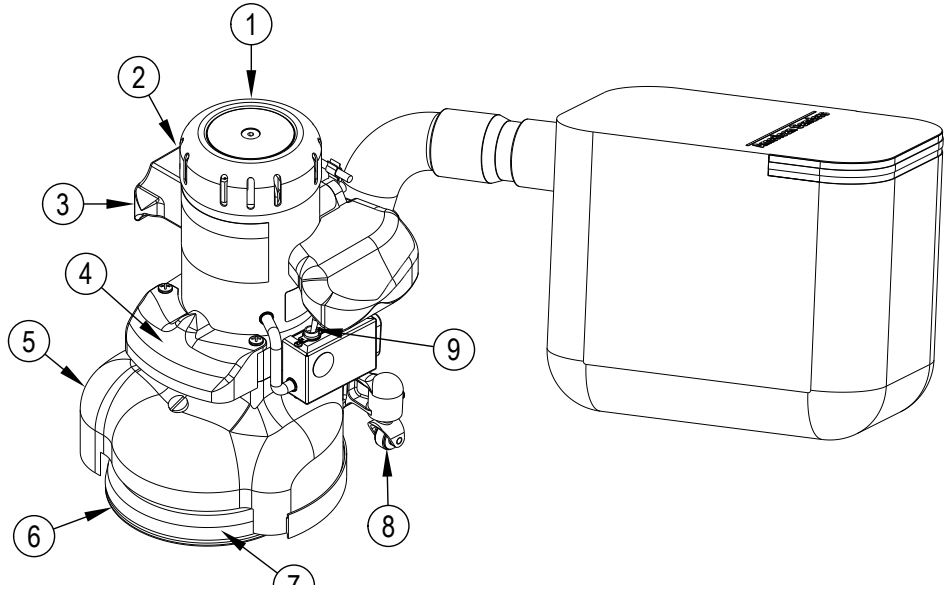
1. Empty the dust bag or dust collection receiver frequently. Do not leave residue in dust bag or dust collection receiver unattended. Always empty in a non-combustible metal container. Sanding wood or varnish produces dust that can self ignite and cause injury or damage. Follow this precaution for storage.
2. Set all exposed nails. Sweep loose abrasive away from work area. Do not strike metal pipes, ect., with sanding paper. Striking metal or abrasive particles with sanding paper produces sparks that could ignite the sanding dust which can cause injury or damage.
3. Do not operate a partially assembled power tool. Keep all adjustments within manufacturer's specifications. Keep all fasteners tight. Operating a partially assembled power tool could result in injury to the operator or bystander and could cause damage to the equipment or surroundings.
4. Do not attempt to change the sanding paper while the power tool is running. The sanding pad can snag clothing and cause injury to limbs and moving sanding paper can cause abrasions.
5. The power tool should only be used on an electrical system (mains) that is rated for the electrical requirements of the power tool as shown on the nameplate. Use only on an earthing (grounded) system. Do not service the power tool if it is energized or connected to an electrical circuit. Improper use could cause fire or electric shock.

## Introduction

The B-2 is specifically designed for finishing floor edges, stairs, and other hard-to-reach surfaces. The handle location and low center of gravity make the B-2 easy to operate.

The excellent cutting power comes from a powerful universal type motor. A motor that delivers maximum performance without slowing down or overheating. Its exclusive two speed control when switched to hi-speed produces 3200 rpm for fast, rough sanding. At low speed, the B-2 operates at 2800 rpm for fine, finish sanding. A non-marking disc guard protects the rubber pad, permitting the edger to work right up to the baseboard or wall.

- 1-Powerful Universal Motor
- 2-Comfortable Operating Handles
- 3-Aluminum Alloy Casting
- 4-Balanced Sanding Disc for perfectly matched job
- 5-Non-Marking Roller Guard
- 6-Non-Marking Swivel Type Casters
- 7-High Low Switch
- \*-Hardened Steel Alloy Pinon and Drive Gear
- \*-Powerful Vacuum Fan for efficient dust pickup



| MODEL             | 07097A  |
|-------------------|---|
| Voltage/Frequency | 220V-240V / 50-60Hz                           |
| Amperage          | 6.5   |
| Motor             | 1450W (1HP)                                   |
| Sound Level       | 91dB (A)                                      |
| Vibration         | 14.3 m/s <sup>2</sup> rms                     |
| Abrasive Size     | 178mm x 22mm Dia. ( 7" x 7/8" Dia. )          |
| Disc Rate High    | 3200 RPM                                      |
| Disc Rate Low     | 2800 RPM                                      |
| Gears             | Hardened steel alloy pinion and drive gear    |
| Bearings          | Sealed ball bearings, lifetime lubricated     |
| Dust Collector    | Powerful vacuum fan, full aluminum skirt      |
| Power Cord        | 12m H07RN F3G 1.5mm <sup>2</sup>              |
| Dimensions        | 356 x 260 x 343mm ( 14" x 10 1/2" x 13 1/2" ) |
| Weight            | 14.5kg (32 lbs. )                             |
| Shipping Weight   | 21kg (46 lbs. )                               |



### **CAUTION:**

Your equipment may be inappropriate on some installations. Some softer woods used in flooring cannot support the pressure created by hard wheels. Always consult with the flooring manufacturer on the proper installation, preparation, and finishing of their product. Determine suitability of your equipment in preparing the product.

## Electrical Connection Instructions

**⚠ CAUTION:** This machine will operate only on AC frequency and on electrical voltage shown on the equipment nameplate. Make sure you have the correct frequency and voltage before connecting the power cord to an outlet. See the example in figure 1.

This machine must be connected to an electrical source with an earthing conductor in order to protect the operator from electric shock. This machine has an approved power cord with three conductors as well as a plug with three terminals. Connect the plug to a matching receptacle.

**⚠ DANGER:** Electrocutation could occur if the machine is exposed to water or rain. Keep the machine in a dry building.

**⚠ DANGER:** Electrocutation could occur if machine is not connected to an electrical source with an earthing conductor. To prevent possible electric shock, use an electrical cord with an earthing conductor and connect it to a matching electrical source. For maximum protection against electrical shock, use a circuit that is protected by a ground fault circuit interrupter. Consult your electrical contractor.

**⚠ DANGER:** Electrocutation could occur if the machine is used with a damaged plug or power cord. If the cords or plugs are worn or damaged in any way, have them replaced by an authorized service person or electrician.

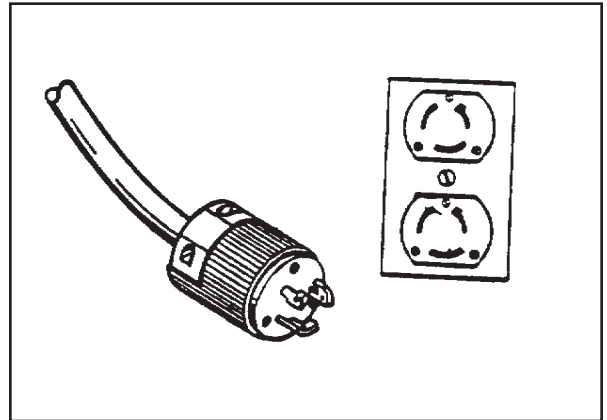


Figure 1

### Extension Cords

Use only an approved three-pronged extension cord with two main conductors and one earthing conductor. This machine is equipped with a power cord. When greater range is needed follow the table below to determine cable gauge of additional footage. Refer to the chart to the right for extension cord information.

If motor appears to labor or takes a considerable longer time to come up to speed reduce sanding pressure.

Feet/Wire Gauge (Stranded Copper)

| Source Voltage | 0 - 100' | 100 - 250'          |
|----------------|----------|---------------------|
| 208            | 6        | Use Voltage Booster |
| 230            | 10       | 8                   |

## Machine Set-up

This sanding machine is designed to be operated with a remote vacuum dust collection system or with the included dust bag.

### Preparing Remote Vacuum Dust Collection Systems

To prepare the machine for remote vacuum dust collection systems that have a 2" hose end, follow this procedure:

1. Install 2" hose end (figure 1, A) directly over the exhaust tube (figure 1, B).
2. The exhaust tube can be rotated for optimum convenience.

To prepare the machine for remote vacuum dust collection systems that have a 1 1/2" hose end, follow this procedure:

1. Install the 2" x 1 1/2" hose end adaptor (Part No. 30563A) (figure 1, C) over the exhaust tube (figure 1, B).
2. Insert 1 1/2" hose end (figure 1, D) into the adaptor (figure 1, C).

**NOTE:** Start the remote vacuum collection system before operation.

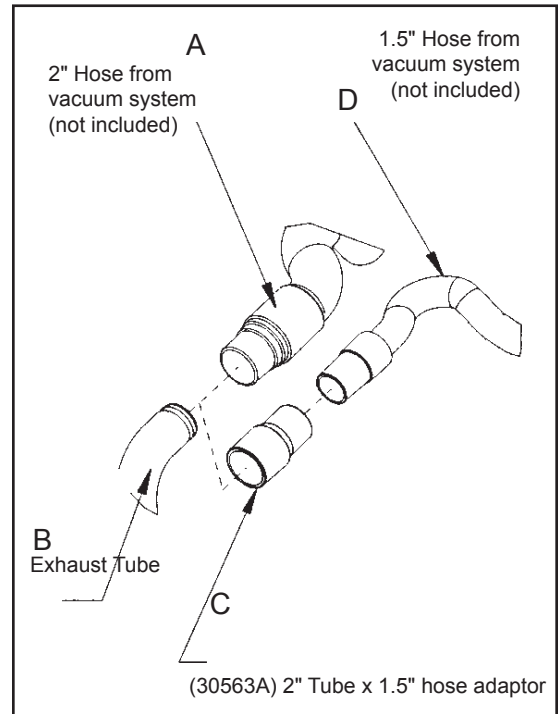


Figure 1

### Preparing to use the included dust bag

To prepare the machine for use with the included dust bag (Part No. 53544B), follow this procedure:

1. Install the dust bag by pressing the end onto the exhaust tube until the ring locks into the groove (figure 2). This is best done by pressing on the back of the bag opening with the palm of your hand.
2. The exhaust tube can be rotated for optimum convenience.
3. To remove the dust bag from the exhaust tube, pry up the end of the bag opening to partially release the internal rib from the groove, then pull.
4. To empty the dust bag, unzip the disposal flap and force contents out by inverting the bag.

**NOTE:** For best results, empty frequently. Follow all warnings posted in this manual and on the dust bag.

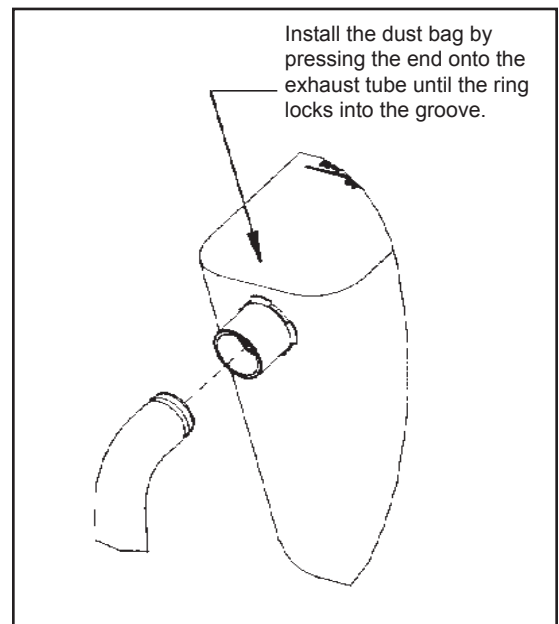


Figure 2



## Machine Set-up

To prepare the machine for use, follow this procedure:

1. Familiarize yourself with the machine. Read all danger, warning and caution statements and the Owner's Manual. If operator is unable to read English, have the manual explained before operating.
2. To install or replace abrasive, turn the machine upside down and let it rest on the motor cover. With the wrench supplied, remove the screw and abrasive retainer. Hold pad to prevent it from rotating and turn wrench. See figure 3.
3. Center abrasive on pad and install the abrasive retainer and screw. Tighten screw.
4. Return machine to upright position.

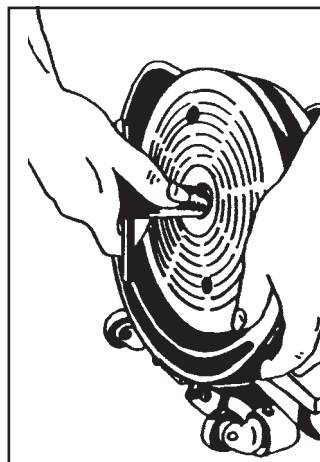


Figure 3

**WARNING:** Serious injury could occur when attempting to replace abrasive while machine is connected to power supply. Always disconnect power before installing abrasive.

**CAUTION:** Gearbox damage could result from machine resting upside down for extended periods of time. Lubricant may drain from gearbox. Always return machine to upright position after installing abrasive.

## Operating Instructions

To operate the machine, follow this procedure:

1. Set any exposed nails with a hammer and punch to avoid encounter with sanding pad.
2. Connect the machine to an appropriately grounded and fused circuit (power supply).
3. Tilt the machine back so that the sanding pad does not contact the floor. Select cutting speed. Use high speed for fast stock removal. Use low speed for finish cuts and custom work. See figure 4 (A).
4. Depress and release the start/stop push button to start the machine. See figure 4 (B).
5. Gradually lower sanding pad to the floor. Make sure the machine is in motion while the sanding pad is engaged with the floor. Broad circular motions can be used as you sand along the length of the floor or you may use a combination of forward and sideways motions. In time you will develop your own technique to optimize coverage and dust control. It is advisable to not add effort to the pad as this may lead to "nosing" or "tipping" which produces grooves or lines on the floor.
6. When replacing abrasive; emptying the contents of the dust bag; or the sanding operation is completed, return the machine to the reclined position and flip the control switch to the off (O) position. Disconnect the machine from the power supply.
7. Empty dust bag whenever it becomes 1/3 full.

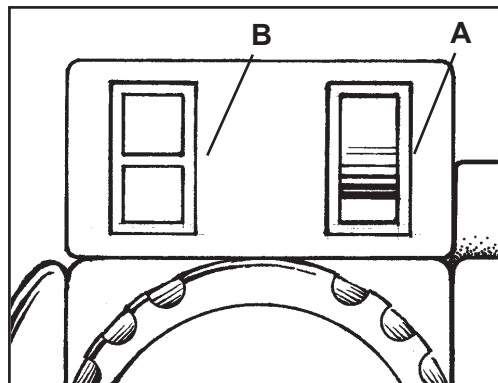




Figure 4

 **DANGER:** Failure to disconnect the supply cable from machine whenever servicing, replacing abrasive, or emptying the dust bag could result in electrocution or severe injury. Never leave machine unattended while the supply cable is connected.

 **DANGER:** Never leave dust bag unattended with sanding dust in it. Sanding dust can spontaneously ignite and cause a fire or explosion. Empty dust bag into a metal container, clear of any combustibles. Do not empty content into a fire. Do not overfill dust bag.

## Sanding Cuts and Sandpaper

### Initial Cut

The purpose of the initial cut is to remove old finish and gross imperfections on the floor surface. The sanding equipment should be adjusted to heavy sanding pressure setting and a coarse abrasive should be used. If the surface is severely damaged by deep scratches, pre-existing dwell marks, uneven planks, etc., it may be necessary to sand across or diagonally to the grain to restore evenness to the surface. If these conditions are not present, the initial cut should be done in the direction of the grain.

If glazing, loading, or burning takes place immediately into an initial cut, select a coarser abrasive. If this should occur during an initial cut, the abrasive has dulled and must be replaced.

### Final Cuts

The purpose of a finishing cut is to remove the scratches produced during the initial cut. Use a fine (60 - 80 grit) grain abrasive and a reduced sanding pressure setting.

If the surface remains rough after a finishing cut, it may be necessary to use an even finer grain of abrasive (80 - 100 grit). Care should be taken in selecting the grit size of the abrasive. A very fine grain will close the pores on a wood floor making admission of a stain difficult.

If glazing or burning should occur immediately into a finishing cut, reduce the sanding pressure. If it should occur during a finishing cut, the abrasive has dulled and must be replaced.

## Routine Maintenance

**CAUTION:** Maintenance and repairs performed by unauthorized personnel could result in damage or injury. Maintenance and repairs performed by unauthorized personnel will void your warranty. Servicing of these units must always be referred to an authorized American Sanders distributor.

### The Dust Control System

Remove the dust from the bag when the bag is  $\frac{1}{3}$  full or when the efficiency of the dust control system decreases.

If the exhaust pipe gets an obstruction, follow this procedure:

1. Remove the four screws that hold the exhaust pipe to the housing. See figure 5.
2. Remove the obstruction from the exhaust pipe.
3. Install the exhaust pipe.

### How to Adjust the Angle Of The Sandpaper Disc To The Floor

The adjustment of the machine is correct when the front part of the sandpaper disc makes contact with the floor.

To change the adjustment of the machine, follow this procedure:

1. Using the special wrench, loosen the lock nut on each caster. See (1) figure 6.1.
2. Loosen the jam nut. See (2) figure 6.2.
3. Raise or lower the casters as needed.
4. Tighten the jam nut on each caster.
5. Tighten the lock nut on each caster.

### The Ventilation Plug

1. To clean the ventilation opening in the center of the plug, remove the plug from the machine. With the plug removed, also inspect the grease in the gearbox. See figure 7.

### Lubrication

The machine is completely lubricated. The bearings and gears in the gear unit have enough lubricant for approximately six months of normal operation. All other bearings are sealed and have enough lubricant for the life of the machine. No lubricant is needed for the rotating disc guard.

### How To Change The Lubricant In The Gearbox

To change the lubricant in the gearbox, follow this procedure:

1. Put the machine upside down on a bench.
2. Align one of the two holes in the rubber pad with one of the three holes in the rotating disc guard.
3. Align both holes with one of the three screws in the gear housing cover. Remove the screw from the gear housing cover. See figure 9.
4. Align the holes with each of the other two screws, then remove screws.

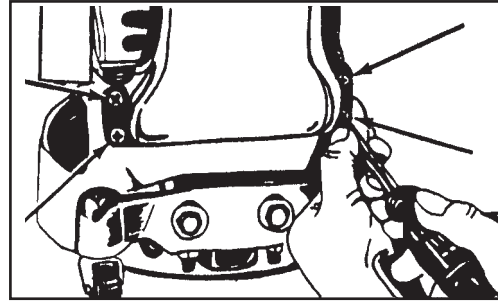


Figure 5

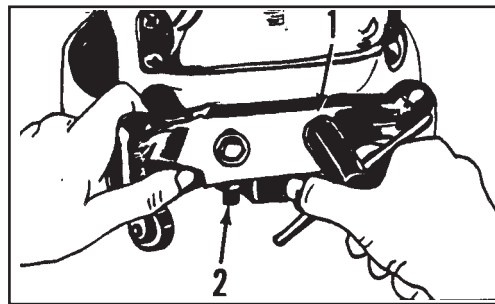


Figure 6

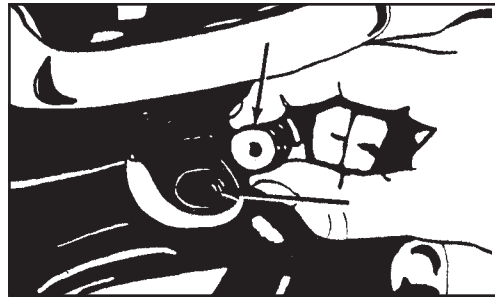


Figure 7

| Qty    | Part No. |
|--------|----------|
| 1 Qt.  | 16610A   |
| 1 Gal. | 16611A   |

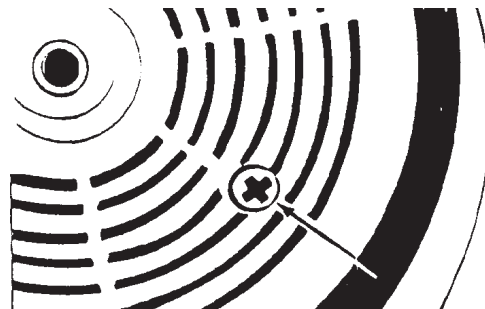


Figure 9

## Routine Maintenance

**CAUTION:** Make sure no dust enters the gear box. Damage could occur to the gear box.

5. Remove the cover from the gear housing.
6. Remove the old lubricant from the gearbox.
7. Add ten ounces of American Sanders lubricant to the gearbox.

**CAUTION:** To prevent damage to the motor, do not add more than ten ounces of lubricant to the gearbox.

8. Using the three screws removed above, install the cover on the gear housing.
9. Start the machine and let it run for 15 minutes. A small amount of excess lubricant should flow out the vent hole. If none appears it may be necessary to add additional lubricant.
10. Wipe off excess lubricant and clear vent hole.

### How To Check The Carbon Brushes

Depending on use, a set of brushes can be expected to last 250 hours and should be inspected sometime prior to that time.

#### To check the brushes, follow this procedure:

1. Remove the motor cover. See figure 10.
2. Inspect the carbon brushes. Replace both brushes if either brush has worn to 3/8" in length, or is worn to the wear indicator. See figure 11.
3. To replace the brushes, disconnect the field wire (A) from the brush holder (B). Then remove the two screws and washers (C) securing the holder to the motor housing. See figure 12.
4. Gently pry the holder down from the motor housing.
5. Rotate holder from beneath the motor housing and lift out.
6. Disconnect the brush shunt wire from the holder. For convenience, cut the terminal from the shunt wire and remove brush.
7. To put in a new carbon brush, negotiate the terminal on the shunt wire by the spring and brush holder guide. Take care not to damage the spring. See figure 13.
8. Depress the brush into the guide and connect the shunt wire to the holder.
9. Depress the brush and insert the holder into the motor housing.
10. Rotate holder beneath motor housing. Relax brush against commutator.
11. Align posts on holder with holes in housing.
12. Gently pry the holder into the housing.
13. Reattach screws and washers.
14. Start up the machine, if sparking between either brush and the commutator occurs, use a brush seating stone on the commutator to promote full engagement between the brushes and commutator.
15. Install the motor cover.

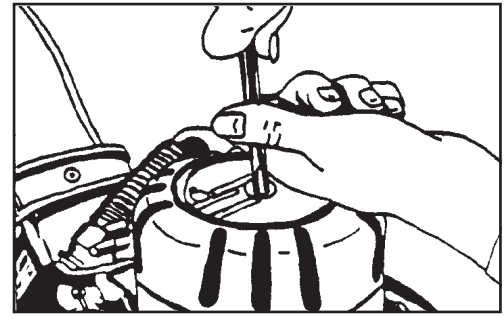


Figure 10

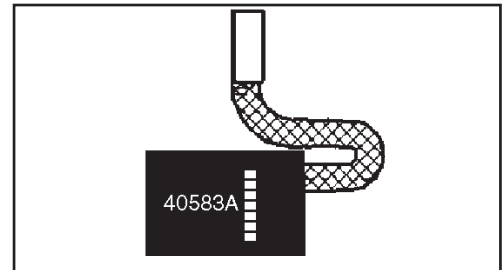


Figure 11

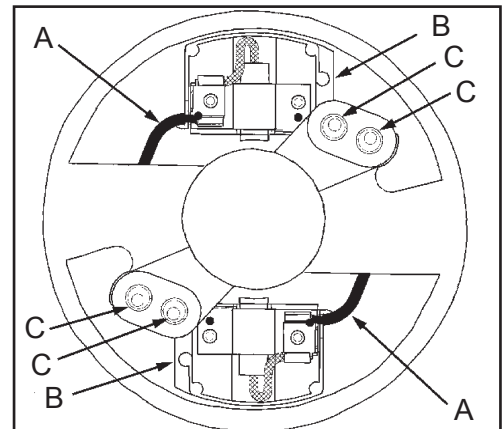


Figure 12

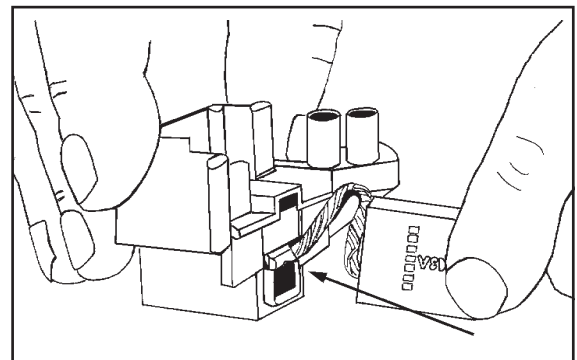


Figure 13

## Troubleshooting

| PROBLEM   | CAUSE  | ACTION   |
|---|--|--|
| <b>Drive belts slip.</b>  | Insufficient tension.<br><br>Worn belts.   | Tension drive belt.<br>(Squeaking or squealing sound)<br><br>Replace belts.  |
| <b>Squealing, growling or grinding noise coming from machine.</b> | Damaged and/or worn bearing.   | Remove drive belts, rotate arbor motor, fan, shafts and idler pulley to locate dragging or rough bearing.<br>Contact an authorized American Sanders dealer.  |
| <b>Dust pick-up is poor.</b>                                      | Dust bag is over 1/3 full.<br>Dust bag is dirty.<br>Dust chute is obstructed.  | Empty contents of bag.<br>Shake debris from bag and wash.<br>Remove fan cover and clear throat.  |
| <b>Motor will not start.</b>                                      | Defective motor starter.<br><br>Defective start capacitor.<br><br>Defective electronic start switch.<br><br>Low voltage from poor connection.<br><br>Defective motor.<br><br>No power. | Contact an authorized American Sanders dealer.<br><br>Contact an authorized American Sanders dealer.<br><br>Contact an authorized American Sanders dealer.<br><br>Contact an authorized American Sanders dealer.<br><br>Contact an authorized American Sanders dealer.<br><br>Check power supply and connections.            |
| <b>Motor runs sluggishly.</b>                                     | Low voltage from excessive footage, undersized extension cord, or poor connection.<br><br>Defective run capacitor.<br><br>Defective motor.   | Locate power source nearer to work site.<br>Decrease sanding pressure.<br><br>Contact an authorized American Sanders dealer.<br><br>Contact an authorized American Sanders dealer.   |
| <b>Motor starter trips/repeatedly</b>                             | Excessive load.<br><br>Defective electronic start switch.<br><br>Defective motor starter.<br><br>Low voltage from poor connection.<br><br>Defective motor<br><br>Defective capacitor.  | Contact an authorized American Sanders dealer.<br><br>Contact an authorized American Sanders dealer.<br><br>Contact an authorized American Sanders dealer.<br><br>Contact an authorized American Sanders dealer.<br><br>Contact an authorized American Sanders dealer.<br><br>Contact an authorized American Sanders dealer. |
| <b>Uneven cut.</b>  | Leveling out of adjustment.  | Readjust leveling.   |
| <b>Burning or glazing.</b>  | Dull abrasive.<br>Excessive sanding pressure.<br>Too fine of an abrasive.  | Replace abrasive.<br>Decrease sanding pressure setting.<br>Use coarser abrasive.   |
| <b>Slow cutting.</b>  | Dull abrasive.<br>Too fine of an abrasive.<br>Insufficient sanding pressure.   | Replace abrasive.<br>Use a coarser abrasive.<br>Increase sanding pressure setting.   |
| <b>Waves on sanded surface.</b>                                   | Debris on wheel.<br>Flat spot on tire(s).  | Remove and clean wheels.<br>Replace tires.   |
| <b>Chatter marks on sanded</b>                                    | Drum out of round.<br>Surface (close evenly spaced)<br>Drum vibration.   | Contact an authorized American Sanders dealer or replace the drum.<br>Change shim combination. Remove debris from surface or ends of drum.   |



**B-2**

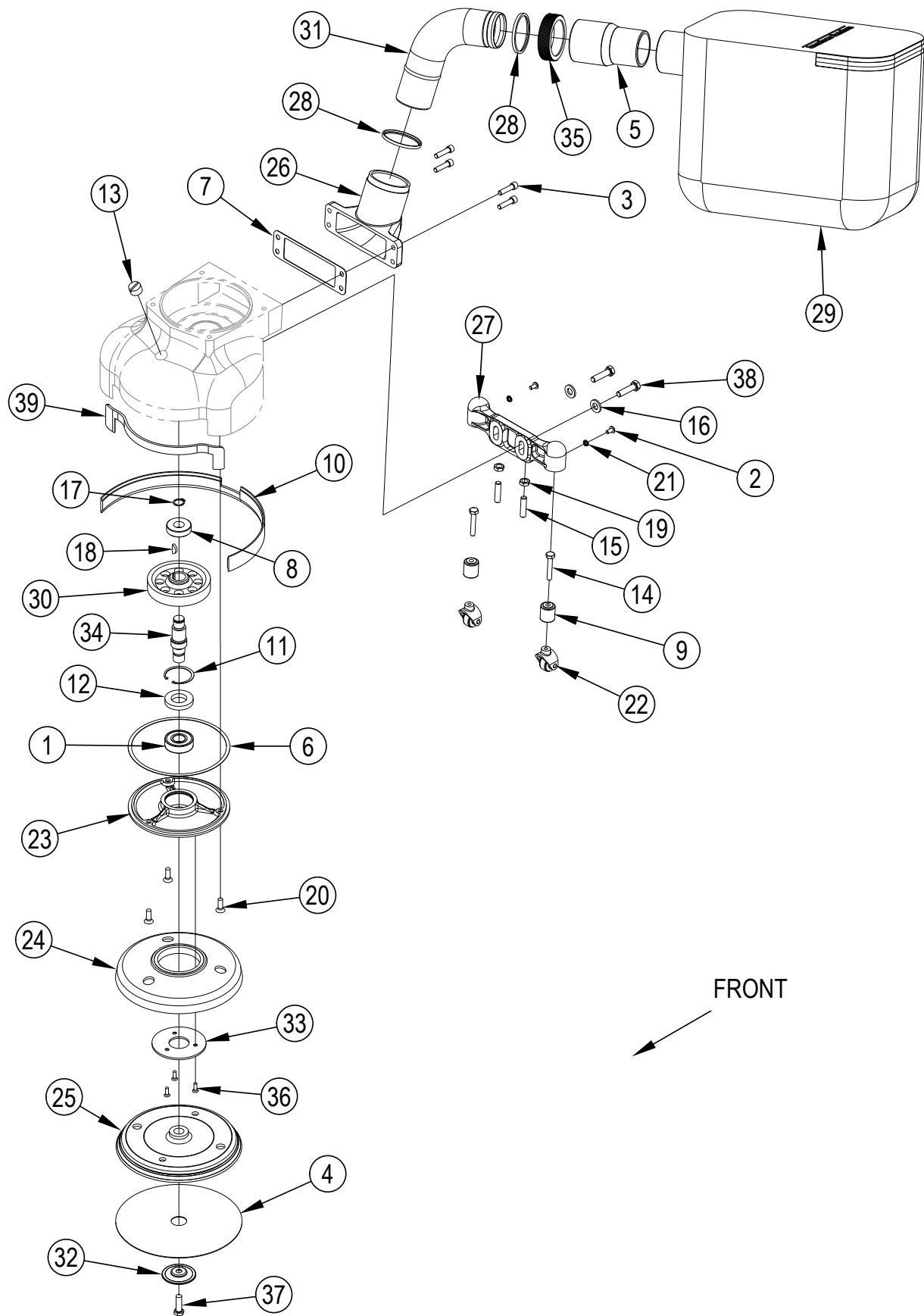
**7" Spinner**

**Edger (CE)**

**Section II**

**Parts Manual**

# Lower Assembly





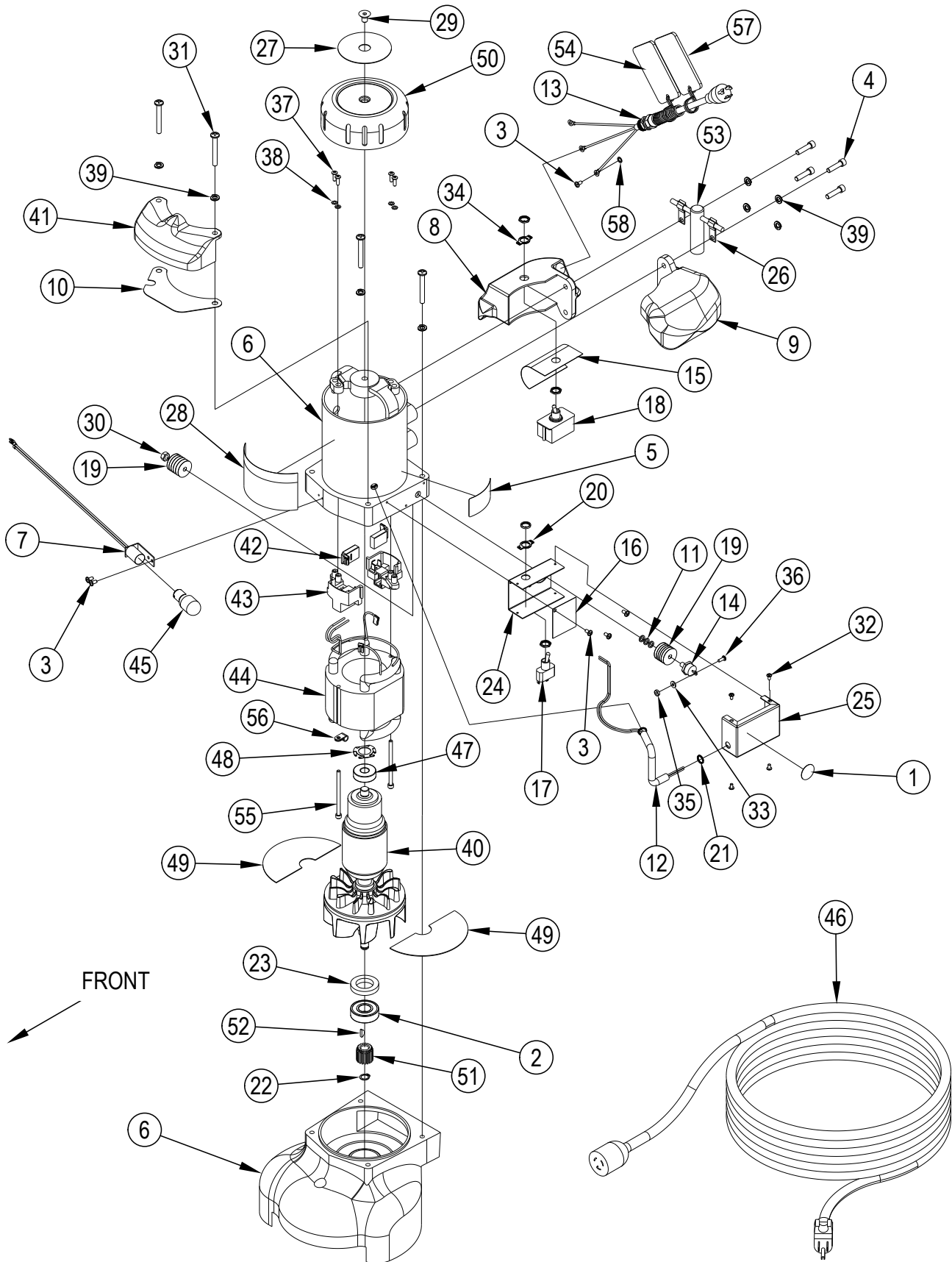
## Lower Assembly

| Item | Ref. No. | Qty | Description  |
|------|----------|-----|--|
| 1    | 902550   | 1   | Bearing Ball-6203  |
| 2    | 962015   | 2   | Screw 10-24 X 3/8 Pn St Ph   |
| 3    | 962454   | 4   | Scr 1/4 -20x1 Sc St Cap  |
| 4    | 56382755 | 1   | Disc 7 Sanding 60 Cs=100 (Case of 100 / One disc is included with the machine) |
| 5    | 30563A   | 1   | 2" X 1.50" HOSE ADAPTOR  |
| 6    | 34232A   | 1   | Gasket-Gear Case Cover   |
| 7    | 34233A   | 1   | Gasket-Discharge Pipe  |
| 8    | 51127A   | 1   | Bearing-Ballshield & Seal  |
| 9    | 51128A   | 2   | Bearing-Dbl Row Unground   |
| 10   | 52853A   | 1   | Skirt B-2 Edger  |
| 11   | 57702A   | 1   | Ring Retaining Internal  |
| 12   | 58114A   | 1   | Seal-Shaft   |
| 13   | 66130A   | 1   | Plug-Gear Hsg. Vent  |
| 14   | 85701A   | 2   | Scr 1/4 -20x1&1/2 Hx St Cap  |
| 15   | 86203A   | 2   | Scr 5/16-18x1&1/4 St St  |
| 16   | 87000A   | 2   | Washer .39x.75x.09 Flat St   |
| 17   | 467308   | 1   | Ring, Retainer 189   |
| 18   | 915028   | 1   | Key, 1/8 X 5/8 Woodruff  |
| 19   | 920160   | 2   | Nut, 5/16 Jam Hex  |
| 20   | 962098   | 3   | Screw, 1/4-20 X 3/4 F.H.   |
| 21   | 980650   | 2   | Washer, #10 Lock   |
| 22   | 10212A   | 2   | Wheel & Yoke Asm   |
| *    | 19901A   | 2   | Caster Yoke Asm B-2+ (includes items 14 & 22)                                  |
| *    | 12203A   | 2   | Caster Assy (includes items 9, 14 & 22)  |
| [ ]  | 980657   | 2   | 1/4" Lock Washer (not shown)   |
| 23   | 12906A   | 1   | Cover, Asm - Gear Case   |
| 24   | 15000A   | 1   | Assembly, Roller Guard   |
| 25   | 21067A   | 1   | Disc Sanding   |
| 26   | 21078A   | 1   | Exhaust Adaptor  |
| 27   | 21106A   | 1   | Bracket, Caster  |
| 28   | 30613A   | 2   | Seal, Pipe   |
| 29   | 53544B   | 1   | Bag, Edger   |
| 30   | 61568A   | 1   | Gear, Drive, B2, (Rh)  |
| 31   | 61712A   | 1   | Tube, Exhaust, B-2   |
| 32   | 62411A   | 1   | Washer   |
| 33   | 66917A   | 1   | Retainer-Roller Guard  |
| 34   | 67426A   | 1   | Shaft-Gear   |
| 35   | 80276A   | 1   | Nut-Slip Joint 2 X 2   |
| 36   | 84200A   | 3   | Screw, 8-32 F.H.C.S  |
| 37   | 85715A   | 1   | Screw, 5/16-18x1 Hx Hd   |
| 38   | 85814A   | 2   | Screw 5/16-18 X 1 1/4 Hh   |
| 39   | 38103A   | 1   | Seal-Dust  |
| [ ]  | 30050A   | 1   | B-2 CE Sander Case   |

\* = Optional, Not Included

[ ] = Not Shown

# Upper Assembly

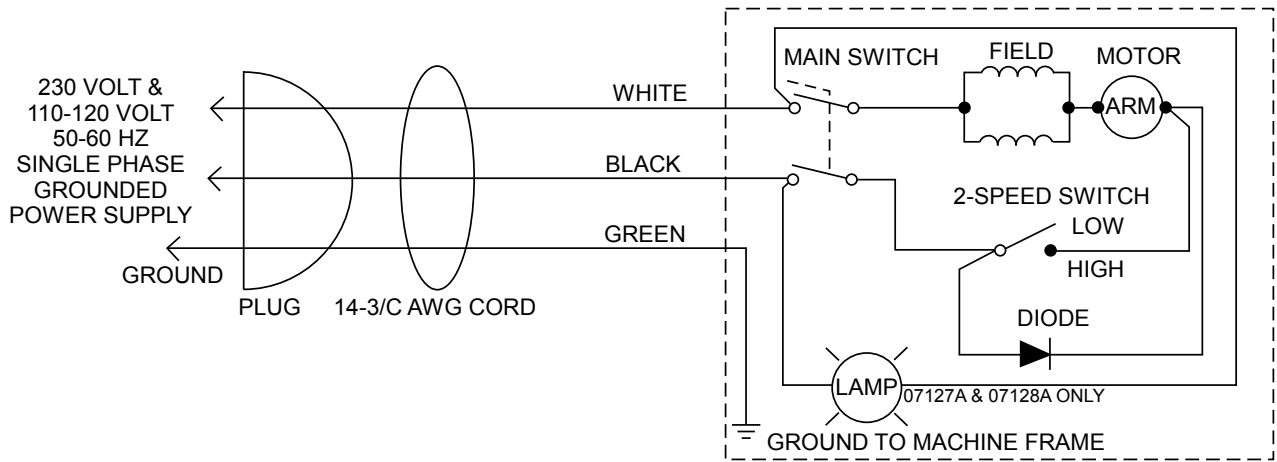


## Upper Assembly

| Item | Ref. No. | Qty | Description                                     | Item | Ref. No.  | Qty | Description   |
|------|----------|-----|---|------|-----------|-----|---|
| 1    | 165106   | 1   | Label-City Of La Approval (07127A)              | 31   | 85333A    | 4   | Scr 1/4 -20x2 Pn St Mach                            |
| 2    | 902550   | 1   | Bearing Ball-6203                               | 32   | 85411A    | 4   | Screw 6-20x1/4 Pan Type Ab                          |
| 3    | 962065   | 6   | Screw 8-32 X 1/4 Pn St Ph                       | 33   | 87201A    | 1   | Washer 6 Int Tooth Lock                             |
| 4    | 962454   | 4   | Scr 1/4 -20x1 Sc St Cap                         | 34   | 646302    | 1   | Plate-Switch  |
| 5    | 56380216 | 1   | Decal Power Tool Cautionary Ma                  | 35   | 920112    | 1   | Nut, 6-32 Hex                                       |
| 6    | 15708B   | 1   | Housing Asm. Gear B-2 (07127A, 07128A)          | 36   | 962330    | 1   | Screw, 6-32 X 3/8 Pan Hd.                           |
| 6    | 15720A   | 1   | Housing Asmgear UK B-2 (07096A)                 | 37   | 962727    | 4   | Screw, 8-32 X 1/2                                   |
| 7    | 18403A   | 1   | Socket Assy-Light (07127A, 07128A)              | 38   | 980621    | 4   | Washer External Tooth Lock                          |
| 8    | 24302A   | 1   | Handle  | 39   | 980657    | 8   | Washer, Lock 1/4                                    |
| 9    | 24302A   | 1   | Handle-Left Hand                                | 40   | 10111B    | 1   | Armature and Fan Asm, 115V, B2, GS (07127A)         |
| 10   | 38104A   | 1   | Seal-Light (07127A, 07128A)                     | 40   | 10111B    | 1   | Armature and Fan Asm, 230V, B2, GS (07128A, 07096A) |
| 11   | 41001A   | 3   | Bushing-Insulating                              | 41   | 22113A    | 1   | Cover, Light (07127A, 07128A)                       |
| 12   | 41918A   | 1   | Cord-Interconnecting                            | 42   | 40583A    | 2   | Brush, Carbon Terminated                            |
| 13   | 41919A   | 1   | Cord Power 14-3 15 115v (07127A)                | 43   | 40717A    | 2   | Brush Holder  |
| 13   | 41920A   | 1   | Cord - Interconnecting - 230 V (07128A, 07096A) | 44   | 40718B    | 1   | Field, 115V, B2, GS (07127A)                        |
| 14   | 42400A   | 1   | Diode-Silicon                                   | 44   | 40719B    | 1   | Field, 230V, B2, GS (07128A, 07096A)                |
| 15   | 46710A   | 1   | Shield-Insulating                               | 45   | 40920A    | 1   | Lamp 130v Dc Bayonet (07127A)                       |
| 16   | 46711A   | 1   | Shield-Insulator                                | 45   | 911116    | 1   | Bulb - 230V (07128A)                                |
| 17   | 47320A   | 1   | Switchtoggle                                    | 46   | 42234A    | 1   | Cordset 14-3x50' So (07127A)                        |
| [ ]  | 49301A   | 1   | Wire-Processed14 Ga Black                       | 46   | 42182A    | 1   | Cord Asm Power Supplsuper 7 (07128A)                |
| [ ]  | 49302A   | 1   | Wire-Processed14 Ga Black                       | 46   | 40007A    | 1   | Cordset 50FT W/AU1-10P (07096A)                     |
| 18   | 47322A   | 1   | Switch Toggle On/Off 7 B-2                      | 47   | 51126A    | 1   | Bearing-Balldbl Seal 6201                           |
| 19   | 48800A   | 12  | Washerinsulatingb-2 Edger                       | 48   | 58602A    | 1   | Spring, Bearing                                     |
| 20   | 50431A   | 1   | Plateswitchhi-Lob-2 Edger                       | 49   | 60800A    | 2   | Baffle_Half   |
| 21   | 54813A   | 4   | Ring-Hog  | 50   | 62003A    | 1   | Cap, Motor Housing                                  |
| 22   | 57701A   | 1   | Ring-Retaining                                  | 51   | 63701A    | 1   | Gear, Pinion  |
| 23   | 58113A   | 1   | Sealoil-0.984 X 1.575 X 0.276                   | 52   | 65302A    | 1   | Key Woodruff Special#3                              |
| 24   | 60727B   | 1   | Bracket Switch                                  | 53   | 68705A    | 1   | Wrench-T-Handle, 1/2 In                             |
| 25   | 62614B   | 1   | Cover Switch Bracket                            | 54   | 70175A    | 1   | Tag Warning   |
| 26   | 64601A   | 2   | Holder-Wrench                                   | 55   | 86117A    | 2   | Scr 10-24x3 Shms                                    |
| 27   | 70686A   | 1   | Platenam B-2+ Cas                               | 56   | 98464A    | 1   | 1/4 Cable/Tubing Clamp                              |
| 28   | 73285A   | 1   | Label-Warning                                   | 57   | 70175A-FR | 1   | Tag Warning Eng-Frn                                 |
| 29   | 80081A   | 1   | Screw 5/16-24 X 1/2                             | 58   | 87200A    | 1   | Washer 8 Int Tooth Lock                             |
| 30   | 81303A   | 1   | Nut 1/4-28                                      | [ ]  | AS010200  | 1   | LAMP, 120V, LED, DC, BAYONET (optional)             |

[ ] = Not Shown

## WIRING DIAGRAM



| Item | Ref. No. | Qty | Description           |
|------|----------|-----|-----------------------|
|      | 40114A   | 1   | Control Switch        |
|      | 46739A   | 1   | RF Suppressor         |
|      | 912287   | 1   | Diode                 |
|      | 47365A   | 1   | Speed Selector Switch |
|      | 40719A   | 1   | Field                 |
|      | 10112A   | 1   | Armature              |









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