

# Eastwood

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## Premier Buffing Motors



Note: Photo may differ from actual motor

- |       |                              |
|-------|------------------------------|
| 51460 | 1 HP Dual-Speed Buff Motor   |
| 11929 | 3/4 HP Dual-Speed Buff Motor |
| 13542 | 1/2 HP Buff Motor            |
| 13306 | 1/3 HP Buff Motor            |

## Instructions

# Safety

## **⚠ WARNING** *For Your Own Safety, Read This Instruction Manual Before Operating Equipment*

The purpose of these safety symbols is to attract your attention to possibly hazardous situations. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The symbols are described below. Remember that safety messages do not eliminate danger by themselves and are not a substitute for proper accident prevention measures.

**⚠ DANGER** Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

**⚠ WARNING** Indicates a potentially hazardous situation which, if not avoided, MAY result in death or serious injury.

**⚠ CAUTION** Indicates a potentially hazardous situation which, if not avoided, MAY result in minor to moderate injury. It may also be used to alert against unsafe practices.

**NOTICE** This symbol is used to alert the user to useful information about proper operation of the equipment.

## **⚠ WARNING** *Important Safety Instructions*

1. ALWAYS WEAR EYE PROTECTION!
2. WEAR AN APPROVED DUST MASK OR RESPIRATOR. Buffing operations produce dust.
3. MAKE SURE BUFFER IS SECURED FIRMLY TO A BENCH OR STAND BEFORE USE. Any “wobbles” must be investigated and corrected by shimming or blocking the unit before operation.
4. DO NOT USE GRINDING WHEELS ON THIS BUFF MOTOR. This tool is strictly designed for buffing only.
5. DO NOT STAND DIRECTLY IN FRONT of the buffing machine when turning the machine on.
6. PERFORM MACHINE INSPECTIONS and maintenance service when called for.
7. DO NOT allow your hands to come into contact with buffing wheels during operation. A spinning buff wheel has the ability to remove a lot of material, including skin, very quickly.
8. ANY PROBLEM concerned with any moving parts or accessories must be investigated and corrected with the power disconnected, and after everything has come to a complete stop.
9. NEVER leave the machine running unattended.
10. NEVER BUFF BY PLACING THE WORKPIECE ON TOP OF THE BUFFING WHEEL. The wheel may “kickback” the workpiece towards the operator. Always buff on the downward part of the buffing wheel.
11. HOLD THE WORKPIECE FIRMLY WHILE BUFFING.

## **⚠ WARNING**

To operate this or any power tool safely and efficiently, it is essential to become as familiar with the tool as possible. The time you invest before you begin to use your buffer will be time well spent. DO NOT operate this machine until you are completely familiar with the contents of this manual or else serious personal injury may occur.

## **⚠ CAUTION**

No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to follow guidelines could result in serious personal injury, damage to equipment or poor work results.

## **⚠ WARNING**

When changing speed on dual-speed motors, the tool must be switched to the “OFF” position.

# Electrical Requirements

These motors are designed to operate on 120V AC, 60 HZ.

Amperage requirements are listed on page 8.

A 10 amp circuit should be used with this buffer. Always check to see if your current wires are capable of handling a 10 amp load. If you are unsure, consult the advice of a qualified electrician.

## Extension Cords

If you find it necessary to use an extension cord with your buffer, make sure the cord is rated Hard Service (grade S) or better. Refer to the chart in the standard safety instructions to determine the minimum gauge for the extension cord. The extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords when they become worn or damaged.

AMP RATING	CORD LENGTH		
	25 ft.	50 ft.	100 ft.
0-6	18	16	16
7-10	18	16	14
11-12	16	16	14
13-16	14	12	12
17-20	12	12	10
21-30	10	10	-----

## Grounding

In the event of an electrical short, grounding reduces the risk of electric shock by providing electric current a path of least resistance. This tool is equipped with a power cord having an equipment-grounding conductor. The outlet must be properly installed and grounded in accordance with all local codes and ordinances.

## ⚠ WARNING

This equipment must be grounded. Verify that any existing electrical outlet and circuit you intend to plug into is actually grounded. Under no circumstance should the grounding pin from any three-pronged plug be removed. Serious injury may occur.

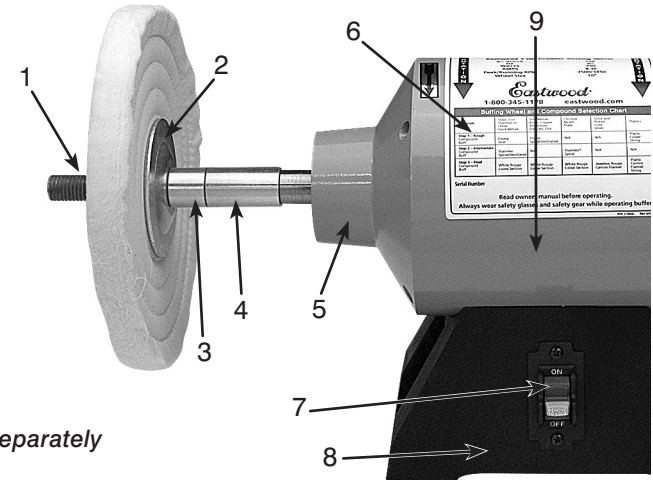
# Set-Up

## Unpacking

Eastwood buff motors are shipped in a carefully packed carton. If you discover the machine is damaged after you have signed for delivery, immediately call Eastwood Customer Service (at 1-800-544-5118) for assistance.

## Piece Inventory

- 1: Arbor Nut
- 2: Flange
- 3: Spacer 1
- 4: Spacer 2
- 5: End Caps
- 6: Label
- 7: Power Switch
- 8: Base
- 9: Motor Housing



**\*\* Buffing wheels sold separately**

## Mounting

Eastwood buff motors are quite heavy. Make sure the workbench on which you plan to use can hold the weight of the motor and the added loading when the buffer is in use. The workbench should have a level surface and be heavy, or attached to the floor, so it will not move during operation.

## To Mount The Buffer

1. Pick a spot on the workbench that will allow enough room to move the size of an anticipated workpiece around the buffer. The operator should have enough room to move out of the way in case of an emergency.
2. Mount the buffer to the pedestal or workbench with bolts that are long enough to exceed the thickness of your mounting surface and the buffer base. Secure these bolts with flat washers, a lock washer and a hex nut. This hardware is NOT included because the size of bolts and hardware that are needed for this step will vary depending on your application.

3. Mount the buffer in an area with proper lighting and near electrical outlets. Lighting should be bright enough to eliminate shadow and prevent eye strain. Electrical circuits should be dedicated or large enough to handle amperage requirements. Keep power or extension cords clear of high-traffic areas. Observe local electrical codes for proper installation of new lighting, outlets, or circuits.

## ⚠ CAUTION

Make sure your workshop is “child safe”. Ensure that children cannot enter by closing and locking all entrances when you are not present. Never allow visitors in your shop when assembling, adjusting, or operating equipment.

## Operation

### NOTICE

The following section was designed to give instructions on the basic operations of this buffer. However, it is in no way comprehensive of every buffer application. There are many different buffing wheels, compounds, and attachments available for buffers. WE STRONGLY RECOMMEND that you review the included copy of 13143 Eastwood Buffing and Metal Finishing instruction booklet and/or get instructional books or videos to maximize the potential of your buffer. If you are new to buffing, you will appreciate Eastwood’s video *The Art of Buffing* (#13304) for basic buffing techniques. For more advanced buffing instruction, *The Art of Buffing II* (#19310) provides methods to buff recessed areas, repair trim, prepare materials for plating, and much more.

### Test Run

Once mounting is complete and adjustments are done to your satisfaction, you are ready to test the buffer. Before testing, remove the flanges and shaft nuts from the arbor. Facing the buffer, the left-hand nut has left-handed threads (remove by turning clockwise) and the right-hand nut has right-handed threads (remove by turning counter-clockwise). Plug in the power and turn the buffer on. Make sure that your hand is poised near the switch in case there is a problem. The buffer should run smoothly with little or no vibration or rubbing noises. Strange or unnatural sounds should be investigated and corrected before operating the buffer. If you cannot easily locate the source of an unusual noise or vibration, feel free to contact our Tech Department for help.

## NOTICE

Eastwood buff motors are strictly designed for buffing operations. IT IS NOT A GRINDER – DO NOT ATTEMPT TO MOUNT GRINDING WHEELS. This buffer has a left and right shaft to provide the option of mounting two different buffing wheels, depending on your application. The convenience of having two shafts allows you to mount different buffing wheels onto each shaft.

## ⚠ WARNING

Keep loose clothing rolled up and out of the way of machinery and keep hair pulled back. Disconnect power to the buffer when performing any maintenance, assembly, or adjustments. Failure to do this may result in serious personal injury. Wear safety glasses during the entire operation process. Failure to comply may result in serious personal injury.

## ⚠ CAUTION

Using this buffer releases which may cause allergic reactions and respiratory problems. Use an approved dust mask to protect yourself from these hazards.

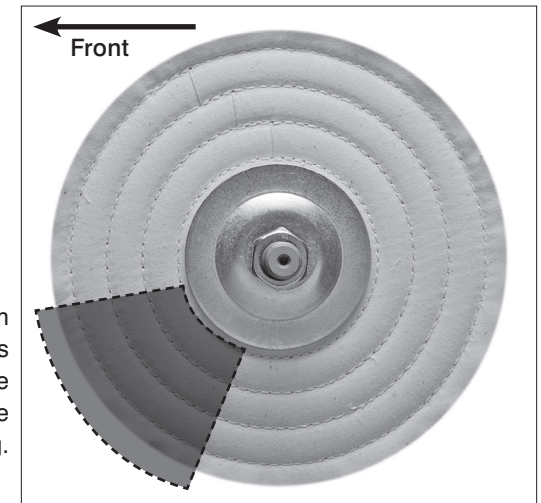


Fig 3. Illustrated from a side profile, shows the only portion of the wheel that should be used during buffing.

### Wheel Removal

To remove the buffing wheels, ensure that the switch is turned OFF and the power cord is disconnected. Hold the shaft with one hand while loosening the nut with a wrench. Remember, the left-hand nut and shaft has left-handed threads.

## ⚠ WARNING

Disconnect power to the buffer when removing the wheels. Failure to do so may result in serious personal injury.

# Buff Motor Specifications

**#51460**  
**1 HP**  
**Dual-Speed**  
**Motor**

AC VOLTS	120
HZ	60
WATTS	370/750
AMPS	3.36/6.30
PEAK/RUNNING RPM	1745/3500 1700/3450
WHEEL SIZE	10"
ARBOR SIZE	3/4"

**#11929**  
**3/4 HP**  
**Dual-Speed**  
**Motor**

AC VOLTS	120
HZ	60
WATTS	370/550
AMPS	3.36/4.68
PEAK/RUNNING RPM	1745/3500 1700/3400
WHEEL SIZE	10"
ARBOR SIZE	3/4"

**#13542**  
**1/2 HP**  
**Motor**

AC VOLTS	120
HZ	60
WATTS	370
AMPS	3.36
PEAK/RUNNING RPM	3500/3450
WHEEL SIZE	8"
ARBOR SIZE	5/8"

**#13306**  
**1/3 HP**  
**Motor**

AC VOLTS	120
HZ	60
WATTS	250
AMPS	3.00
PEAK/RUNNING RPM	3500/3450
WHEEL SIZE	6"
ARBOR SIZE	1/2"

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If you have any questions about the use of this product, please contact  
The Eastwood Technical Assistance Service Department:  
**1-866-759-2131 email: [techelp@eastwood.com](mailto:techelp@eastwood.com)**

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