Shop Fox W1681

Shop Fox W1681 Buffing Assembly Instruction Manual

Model: W1681

Introduction

Thank you for purchasing the Shop Fox W1681 Buffing Assembly. This double arbor buffing head is designed to provide a versatile and efficient buffing system when combined with a compatible motor. This manual contains important information regarding the safe operation, setup, and maintenance of your buffing assembly. Please read it thoroughly before use and retain it for future reference.

General Safety Information

Always follow basic safety precautions to reduce the risk of personal injury or damage to the equipment.

- **Read all instructions:** Familiarize yourself with the assembly and operation before use.
- **Wear eye protection:** Always wear safety glasses or a face shield to protect against flying debris.
- **Secure workpiece:** Ensure items being buffed are held securely to prevent kickback.
- **Maintain a clean work area:** Cluttered areas invite accidents.
- **Do not overreach:** Maintain proper footing and balance at all times.
- **Disconnect power:** Always disconnect the motor from the power source before making adjustments, changing accessories, or performing maintenance.
- **Use recommended accessories:** Only use buffing wheels and accessories rated for the recommended motor speed of 1725 RPM and a maximum diameter of 10 inches.

Package Contents

The Shop Fox W1681 Buffing Assembly package includes the following components:

- Buffing Head Assembly
- V-belt
- Wheel Flanges (2 sets)
- Arbor Nuts (2 sets)

Note: Buffing wheels, motor, and motor pulley are not included and must be purchased separately.

Setup Instructions

Follow these steps to properly set up your Shop Fox W1681 Buffing Assembly.

1. Mounting the Buffing Assembly

1. Choose a stable workbench or stand for mounting.
2. Position the buffing assembly and secure it using appropriate bolts and nuts through the mounting holes in its base. Ensure it is firmly attached to prevent movement during operation.

2. Mounting the Motor

The buffing assembly is designed to work with any 1/3 HP or larger motor operating at 1725 RPM. The motor can be mounted either behind or below the buffing assembly for flexibility.

1. Mount your motor securely to the workbench or stand, ensuring its shaft aligns with the buffing assembly's pulley system.
2. Attach a motor pulley (not included) to the motor shaft. The buffing assembly features a three-step pulley (2-inch, 3-inch, 4-inch) to allow for different speed ratios. Select the appropriate motor pulley size to achieve desired buffing speeds.

3. Installing the V-Belt

Image: The Shop Fox W1681 Buffing Assembly with the V-belt connecting the motor pulley (partially visible) to the assembly's three-step pulley.

1. Place the included V-belt around the chosen step of the buffing assembly's pulley and the motor pulley.
2. Adjust the motor's position or tensioning mechanism (if available) to ensure proper belt tension. The belt should be snug but not overly tight, allowing for smooth rotation without slipping.

4. Attaching Buffing Wheels

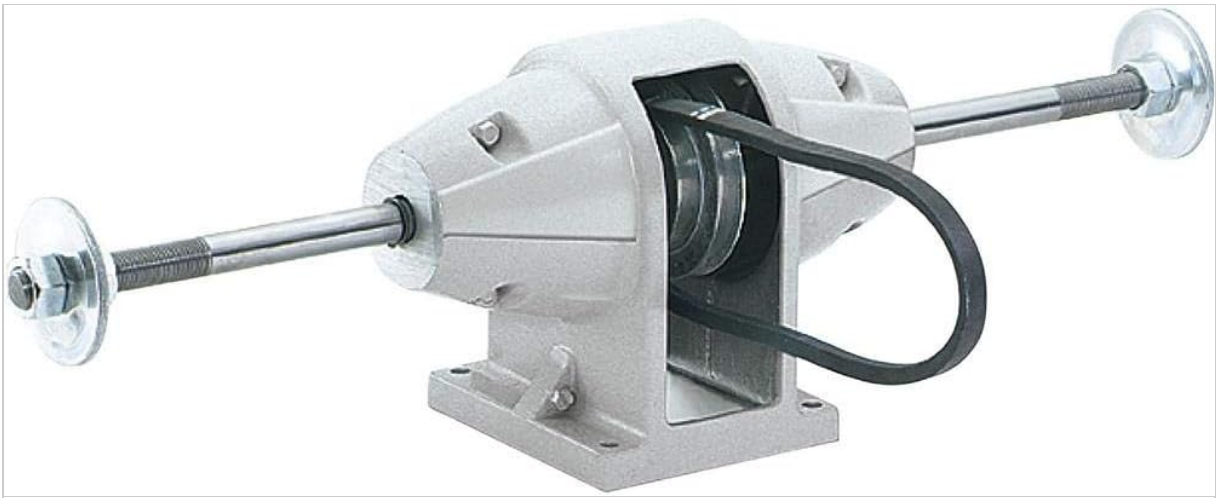

Image: The Shop Fox W1681 Buffing Assembly displaying its 8-1/4 inch arbor shafts on each side, with wheel flanges and arbor nuts ready for buffing wheel installation.

1. Slide a wheel flange onto each side of the 8-1/4 inch arbor shafts.
2. Place your desired buffing wheel (maximum 10-inch diameter, not included) onto the arbor shaft, against the first flange.
3. Slide the second wheel flange onto the arbor, pressing against the buffing wheel.
4. Thread an arbor nut onto the end of the shaft and tighten it securely to hold the buffing wheel firmly in place. Ensure the nuts are tightened sufficiently to prevent the wheel from spinning freely on the arbor.
5. Repeat for the other side if using two buffing wheels.

Operating Instructions

Once the buffing assembly is properly set up, follow these guidelines for safe and effective operation.

- **Pre-Operation Check:** Before each use, inspect the buffing wheels for wear or damage. Ensure all nuts and bolts, especially the arbor nuts, are tight. Verify the V-belt tension is correct.
- **Power On:** Connect the motor to a suitable power source and turn it on. Allow the buffing wheels to reach full operating speed (recommended 1725 RPM) before applying any workpiece.
- **Applying Workpiece:** Gently bring the workpiece into contact with the rotating buffing wheel. Apply light, even pressure. Avoid pressing too hard, as this can cause the motor to stall, damage the workpiece, or create excessive heat.
- **Movement:** Move the workpiece consistently across the surface of the buffing wheel to achieve an even finish.
- **Safety Distance:** Always keep hands and fingers clear of the rotating buffing wheels and belt system.
- **Power Off:** When finished, turn off the motor and allow the buffing wheels to come to a complete stop before leaving the machine or performing any adjustments.

Maintenance

Regular maintenance ensures the longevity and safe operation of your buffing assembly.

- **Cleaning:** Keep the buffing assembly clean and free of dust and debris. Use compressed air or a brush to remove buildup from the pulleys and housing.
- **Belt Inspection:** Periodically check the V-belt for signs of wear, cracking, or stretching. Replace the belt if it shows any damage or if it consistently slips.
- **Arbor Nuts and Flanges:** Ensure arbor nuts remain tight. Inspect wheel flanges for damage or deformation.
- **Lubrication:** The internal bearings are typically sealed and do not require lubrication. Refer to your motor's manual for its specific lubrication requirements.
- **Storage:** Store the buffing assembly in a clean, dry environment when not in use.

Troubleshooting

Problem	Possible Cause	Solution
Buffing wheels do not spin or spin slowly.	Loose V-belt; Motor not powered; Motor too small; Excessive pressure on workpiece.	Adjust belt tension; Check motor power connection; Use a 1/3 HP or larger motor; Reduce pressure on workpiece.
Excessive vibration.	Unbalanced buffing wheel; Loose mounting bolts; Damaged arbor shaft.	Replace or rebalance buffing wheel; Tighten all mounting bolts; Inspect arbor shaft for damage.
Belt slipping.	Loose belt tension; Worn belt; Oil/grease on belt or pulleys.	Adjust belt tension; Replace worn belt; Clean belt and pulleys.

Specifications

- **Model:** W1681
- **Arbor Diameter:** 3/4-Inch
- **Arbor Length (each side):** 8-1/4-Inch
- **Maximum Buffing Wheel Diameter:** 10-Inch
- **Recommended Motor Speed:** 1725 RPM
- **Compatible Motor:** 1/3 HP or larger
- **Pulley System:** Three-step (2-inch, 3-inch, 4-inch)
- **Material:** Metal
- **Product Dimensions:** 71.12 x 21.59 x 15.24 cm (28 x 8.5 x 6 inches)
- **Item Weight:** 5.17 kg (11.4 lbs)
- **Country of Origin:** China

Warranty Information

The Shop Fox W1681 Buffing Assembly comes with a **1-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, unauthorized repairs, or normal wear and tear. Please retain your proof of purchase for warranty claims.

Customer Support

For technical assistance, replacement parts, or warranty inquiries, please contact Shop Fox customer service.

Refer to the contact information provided with your product packaging or visit the official Shop Fox website for support details.