Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference. 22h

CENTRAL® MACHINERY

6" x 48" BELT AND 9" DISC SANDER

59220

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

⚠WARNING

Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.

Table of Contents

SAFETY

SETUP

OPERATION

MAINTENANCE

CENTRAL® MACHINERY

WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

General Tool Safety Warnings

⚠ WARNING

Read all safety warnings and instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

Table A: RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)				
NAMEPLATE AMPERES (at full load)	**EXTENSION CORD LENGTH**			
	25′	**50′**	**100′**	**150′**
0 – 6	18	16	16	14
6.1 – 10	18	16	14	12
10.1 – 12	16	16	14	12
12.1 – 16	14	12	**Do not use.**	

9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

12. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.

13. DON'T OVERREACH.
Keep proper footing and balance at all times.

14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. DISCONNECT TOOLS before servicing when changing accessories, such as blades, bits, cutters, and the like.

16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.

17. USE RECOMMENDED ACCESSORIES.
Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.

18. NEVER STAND ON TOOL.
Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.

19. 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, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

20. DIRECTION OF FEED.
Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

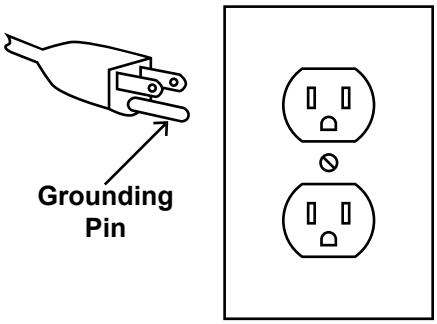
Grounding Instructions

⚠WARNING

TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION READ AND FOLLOW THESE INSTRUCTIONS:

110-120 VAC Grounded Tools: Tools with Three Prong Plugs

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.
4. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.



125 VAC 3-Prong Plug and Outlet (for up to 125 VAC and up to 15)

7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 VAC 3-Prong Plug and Outlet**. The tool has a grounding plug that looks like the plug illustrated above in **125 VAC 3-Prong Plug and Outlet**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. Do not use an adapter to connect this tool to a different outlet.

Sander Safety Warnings

For Your Own Safety Read Instruction Manual Before Operating Sander

1. Wear eye protection.
2. Support workpiece with miter gauge, backstop, or worktable.
3. Maintain 1/16 inch maximum clearance between table and sanding belt or disc.
4. Avoid kickback by sanding in accordance with the directional arrows.
5. The backstop is a fence near the surface that helps the operator maintain control of the workpiece and prevents the workpiece from being pulled into the machine. For safety, it must be adjusted very close to the sanding surface.
6. The worktable is the surface mounted close to the sanding surface that the operator rests the workpiece against to prevent it from being pulled adjusted very close to the sanding surface.
7. The sanding belt is designed to rotate down towards the table while the disc rotates both up from the table and down towards the table. Sand on the belt with the workpiece in front of the backstop and/or table. Sand only on the downward moving surface of the disc - sanding on the upward moving surface may result in the workpiece being thrown up and towards the operator.
8. Remove Safety Key when the Switch is turned off. Do not leave the Safety Key in the Switch when the tool is not in use.

9. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED. Moving guards must move freely and close instantly.**

10. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.

11. When servicing use only identical replacement parts.

12. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

13. 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.

14. Industrial applications must follow OSHA guidelines.

15. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

16. Avoid unintentional starting. Prepare to begin work before turning on the tool.

17. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.

18. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.

2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.

3. Use tools with the lowest vibration when there is a choice between different processes.

4. Include vibration-free periods each day of work.

5. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.

6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

SAVE THESE INSTRUCTIONS.

Specifications

Electrical Rating	120VAC / 60Hz / 12A
Belt Size	6" W x 48" L
Disc Size	9"
Maximum Speed	1800 RPM (Disc) 1400 FPM (Belt)

Setup - Before Use:

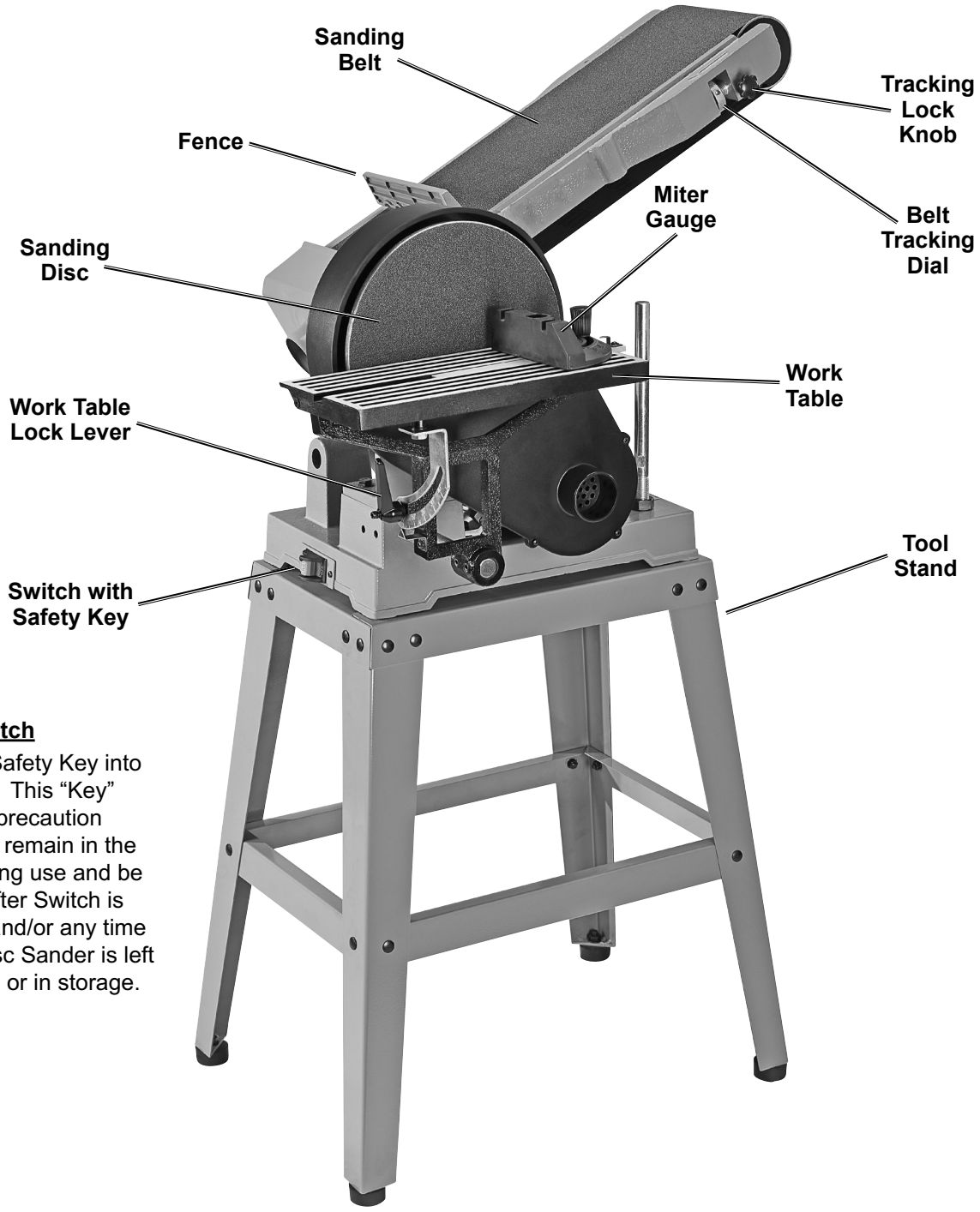
Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Functions



Safety Switch

Insert the Safety Key into the Switch. This "Key" is a safety precaution and should remain in the Switch during use and be removed after Switch is turned off and/or any time the Belt/Disc Sander is left unattended or in storage.

Assembly

Tool Stand Assembly

1. Align the two mounting holes located at each end of a Short Top Frame (73) with the mounting holes located at the top of two Legs (74).

2. Insert four M6x12 Carriage Bolts (81) through the aligned mounting holes of the Short Top Frame and two Legs. Attach 6mm Flat Washers (82) and M6 Nuts (83) to the Carriage Bolts and loosely tighten.

3. Align the mounting holes located at each end of a Short Brace (76) with the mounting holes located on the lower, inside edges of the two Legs.

4. Insert two M6x12 Carriage Bolts through the aligned mounting holes of the Short Brace and two Legs. Attach 6mm Flat Washers and M6 Nuts to the Carriage Bolts and loosely tighten.

5. Repeat Steps #1 through #4 above to attach the remaining Short Top Frame and Short Brace to the two remaining Legs.

6. Align the two mounting holes located at each end of a Long Top Frame (72) with the mounting holes located at the top of the two Leg assemblies.

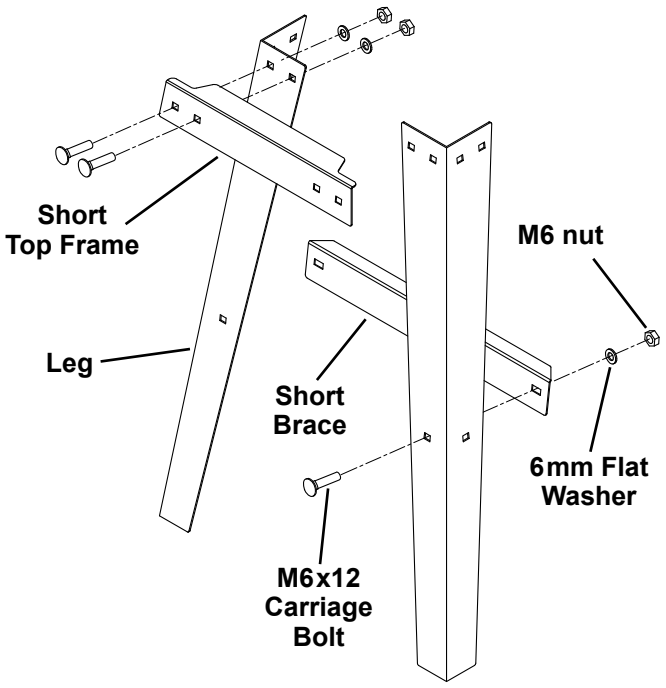
7. Insert four M6x12 Carriage Bolts through the aligned mounting holes of the Long Top Frame and the two Leg assemblies. Attach 6mm Flat Washers and M6 Nuts to the Carriage Bolts and loosely tighten.

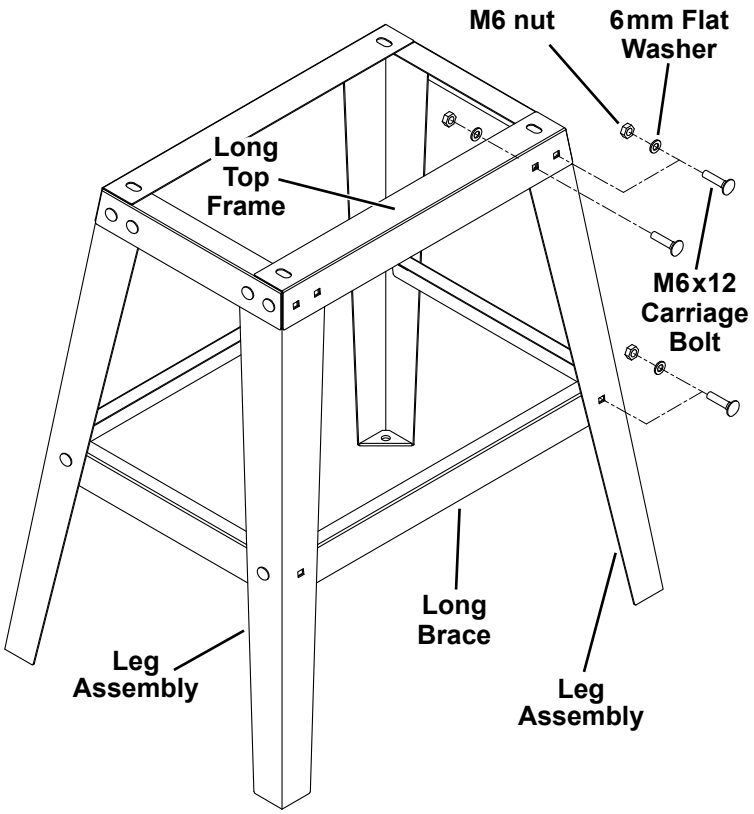
8. Align the mounting holes located at each end of a Long Brace (75) with the mounting holes located on the lower, inside edges of the two Leg assemblies.

9. Insert two M6x12 Carriage Bolts through the aligned mounting holes of the Long Brace and the two Leg assemblies. Attach 6mm Flat Washers and M6 Nuts to the Carriage Bolts and loosely tighten.

10. Repeat Steps #6 through #9 above to attach the remaining Long Top Frame and Long Brace to the two Leg assemblies.

11. Place the Tool Stand at the location where it will be used. With the aid of a corner square and a level, make sure the top of the Tool Stand is level. Then, wrench tighten all of the Nuts.

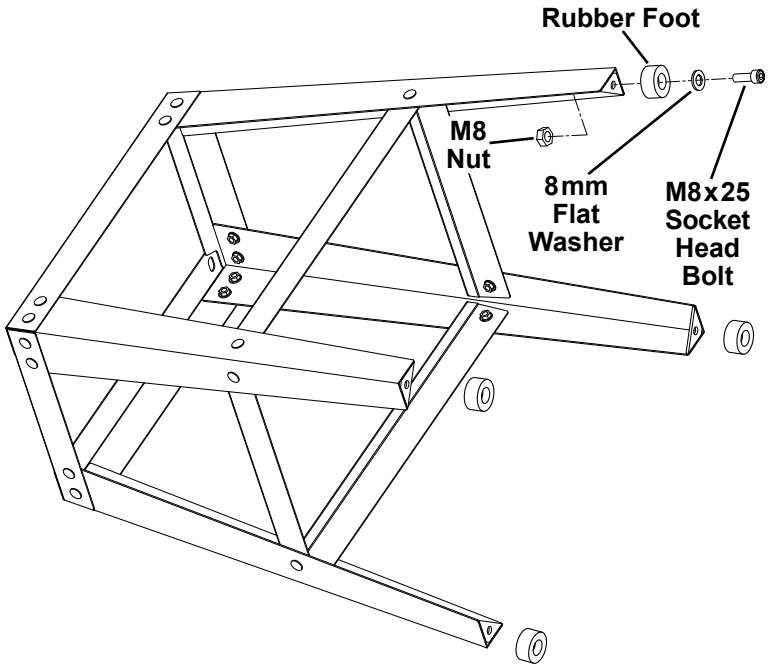




12. With assistance, carefully tip the assembled Tool Stand onto its side.

13. Attach a Rubber Foot (79) to the bottom of each Tool Stand Leg using four Rubber Feet and four sets of M8x25 Socket Head Bolts (77), 8mm Flat Washers (78), and M8 Nuts (80).

14. Place the Tool Stand back in its upright position.



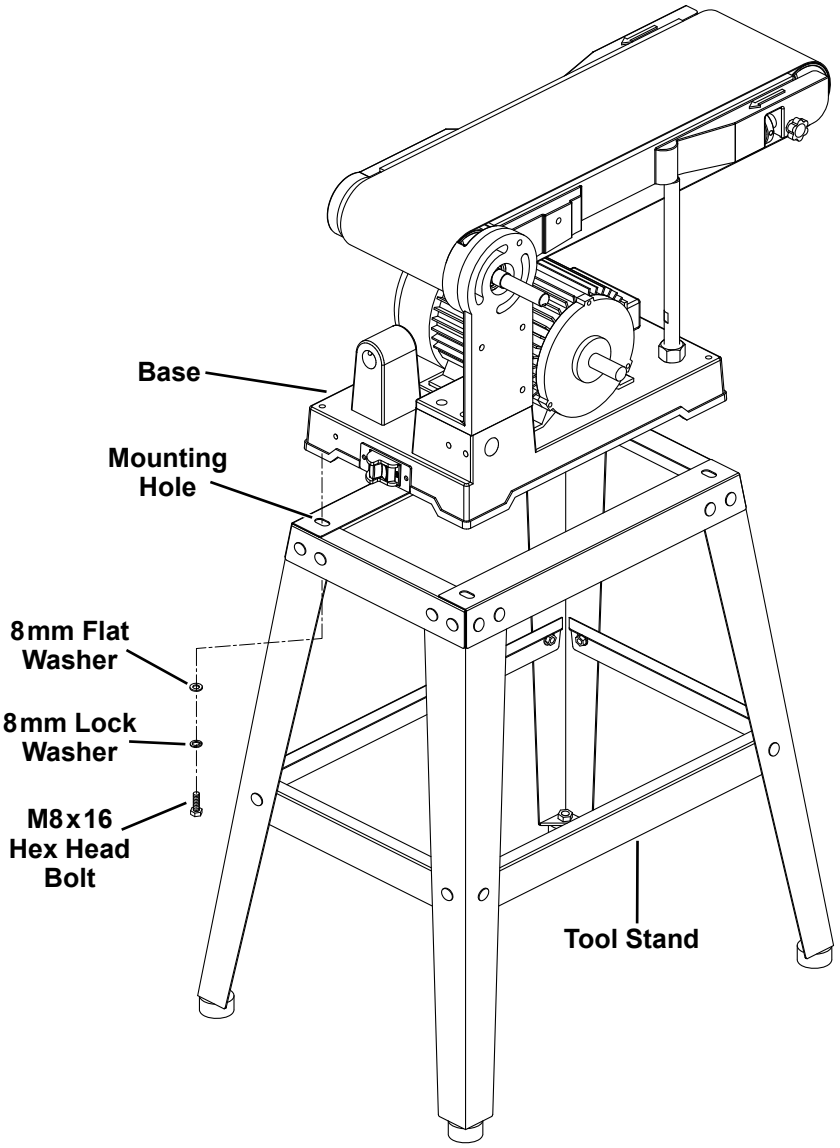
Mounting Sander to Tool Stand

1. With assistance, place the Base (66) of the Belt/Disc Sander on top of the assembled Tool Stand.

2. Align the four threaded mounting holes on the Base with the four mounting holes on the top of the Tool Stand.

3. From underneath the Tool Stand, secure the Base to the Stand by inserting four sets of M8x16 Hex Head Bolts (84), 8mm Lock Washers (85), and 8mm Flat Washers (86) upward through the Stand's four mounting holes.

4. Tighten the four Bolts securely into the four threaded mounting holes on the Base.



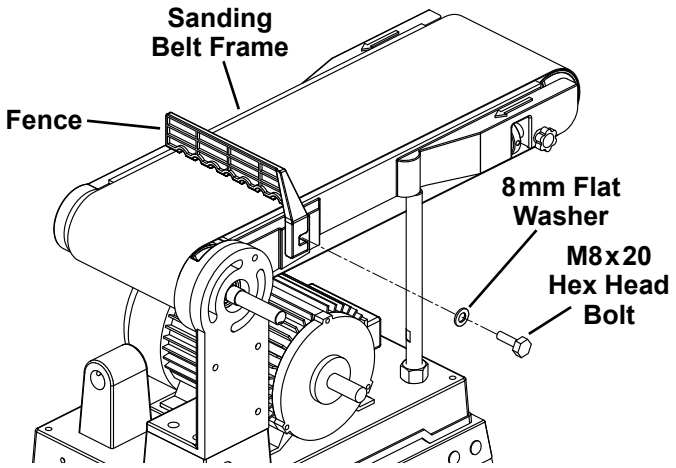
Mounting Fence

1. The Fence (99) fits across the top of the Sanding Belt to prevent workpiece from moving to the rear when sanding.

2. Align the mounting hole on the Fence with the threaded mounting hole on the Sanding Belt Frame (100).

3. Secure Fence in place using M8x20 Hex Head Bolt (97) and 8mm Flat Washer (98).

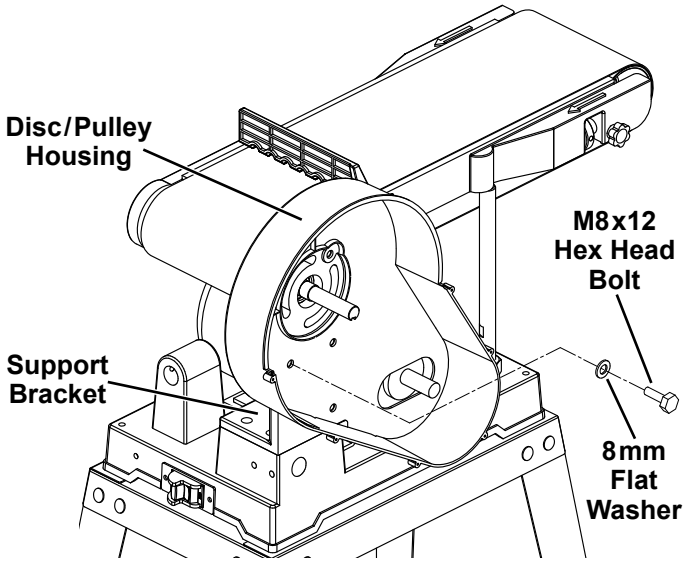
WARNING! TO PREVENT SERIOUS INJURY: Adjust Fence height to avoid contact with Sanding Belt and allow free Belt movement.



Install Disc/Pulley Housing

1. Remove the Disc Guard (33) from the Disc/Pulley Housing (22).

2. Attach the Disc/Pulley Housing to the four threaded mounting holes on the Support Bracket (19) using four sets of M8x12 Hex Head Bolts (28) and 8mm Flat Washers (27).



Install Pulleys

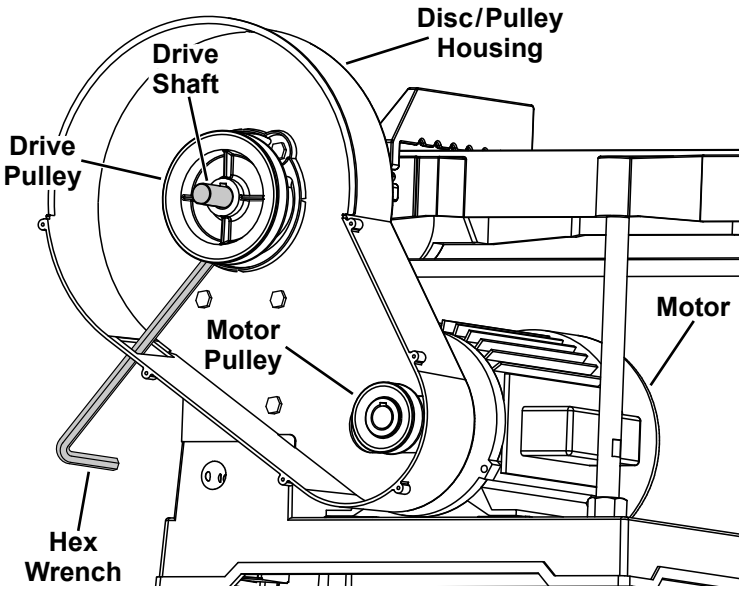
1. Loosen the M8x10mm Set Screw (23) on the Drive Pulley (24). Slide the Drive Pulley onto the drive shaft, with the 5x55mm Machine Key (12) lined up with the slot on the Pulley. Be sure the Key stays in the correct position, all the way through the Pulley.

2. Loosen the M8x10mm Set Screw (25) on the Motor Pulley (26). Slide the Motor Pulley onto the motor shaft, with the 5x25mm Machine Key (93) lined up with the slot on the Pulley. Be sure the Key stays in the correct position, all the way through the Pulley.

3. Align the Motor Pulley with the Drive Pulley.

4. Use a hex wrench through the slot in the Disc/Pulley Housing to tighten the Set Screw on the Drive Pulley.

5. Tighten the Set Screw on the Motor Pulley.



Install Drive Belt

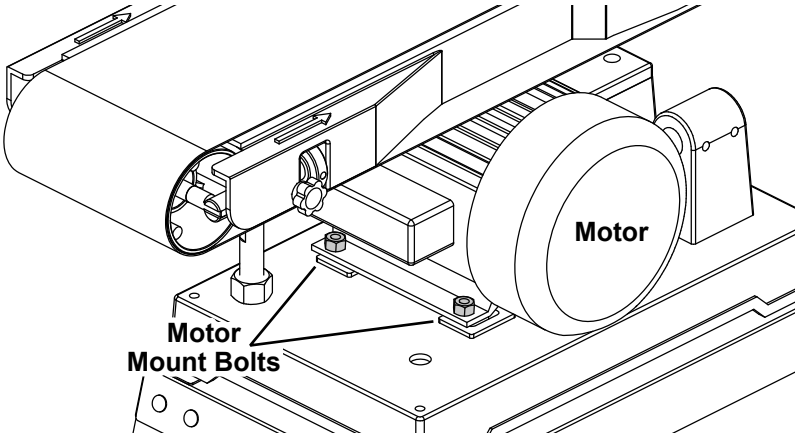
1. Loosen the four M8x20 Motor Mount Bolts (91) that hold the Motor (94) just enough to let the Motor move.

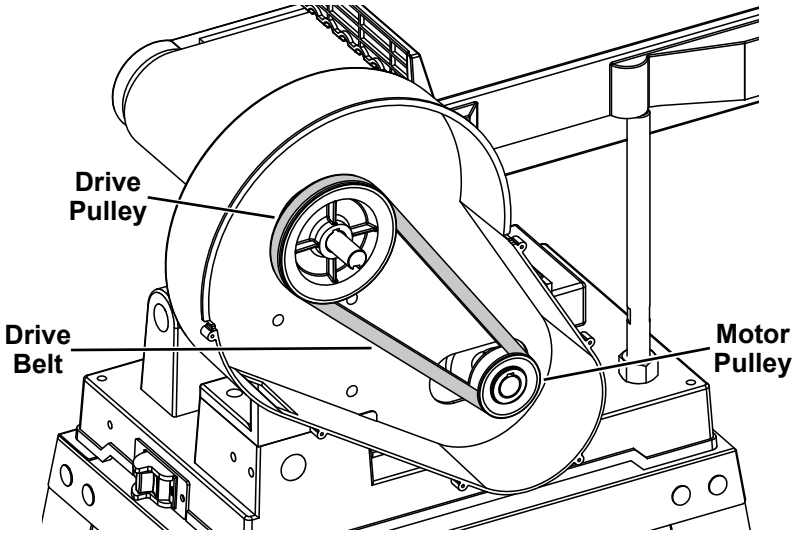
2. Move the Motor forward toward the Drive Pulley enough to allow the Drive Belt (29) to slip on over the Drive and Motor Pulleys. Make sure the Belt is properly seated in the grooves of both Pulleys.

3. Tighten the Drive Belt by moving the Motor backward away from the Drive Pulley.

4. Hold the Motor in place and retighten the four Motor Mount Bolts.

5. Check Drive Belt tension by squeezing both sides of the Belt toward each other. When properly adjusted, the Belt should deflect anywhere from 1/8 to 1/4 inch. Make sure the Belt is properly seated in the grooves of both Pulleys.



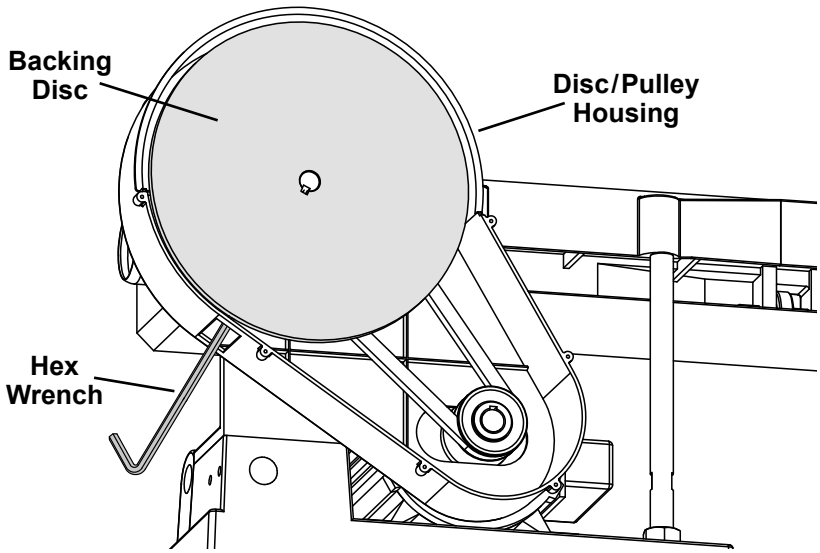


Install Backing Disc

1. Loosen the M8x10mm Set Screw (31) on the Backing Disc (30).

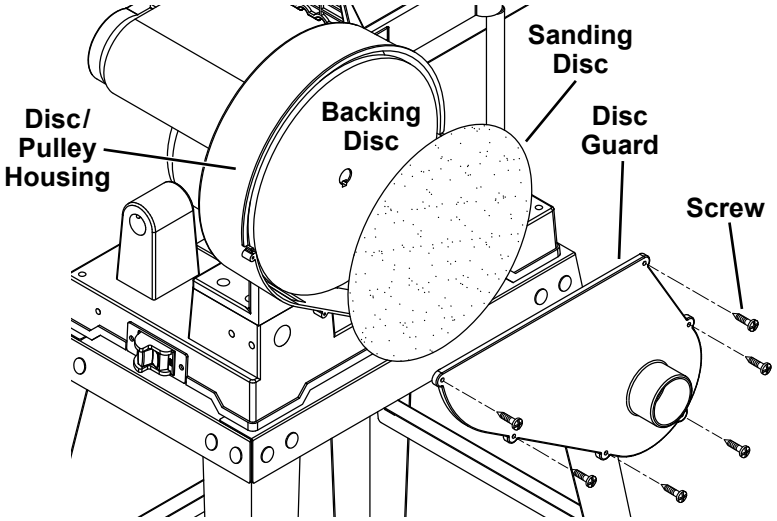
2. Slide the Backing Disc onto the drive shaft so that it's flush with the end of the shaft.

3. Use a hex wrench through the slot in the Disc/Pulley Housing to tighten the Set Screw on the Backing Disc.



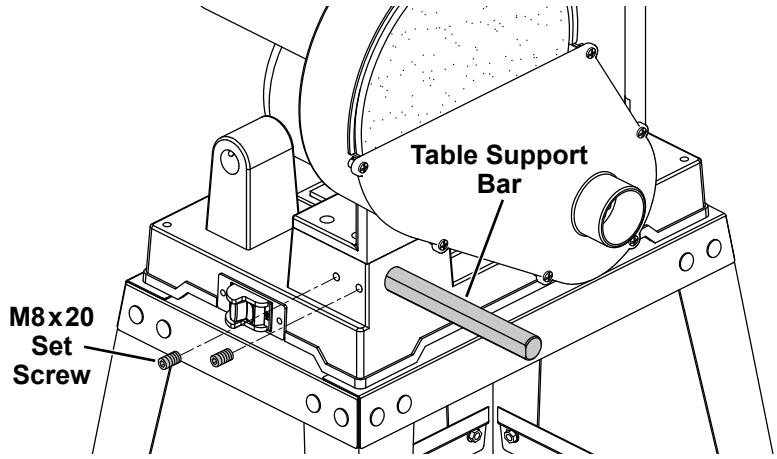
Install Sanding Disc and Disc Guard

1. Wipe down the Backing Disc with denatured alcohol to remove any residue and ensure a secure bond.
2. Remove backing from Sanding Disc (32).
3. Align perimeter of Sanding Disc over the Backing Disc and press Sanding Disc firmly onto the Backing Disc.
4. Position Disc Guard (33) against Disc/Pulley Housing, aligning holes in Guard with mounting holes in Housing. Fasten securely using six Self-Tapping Screws (55).

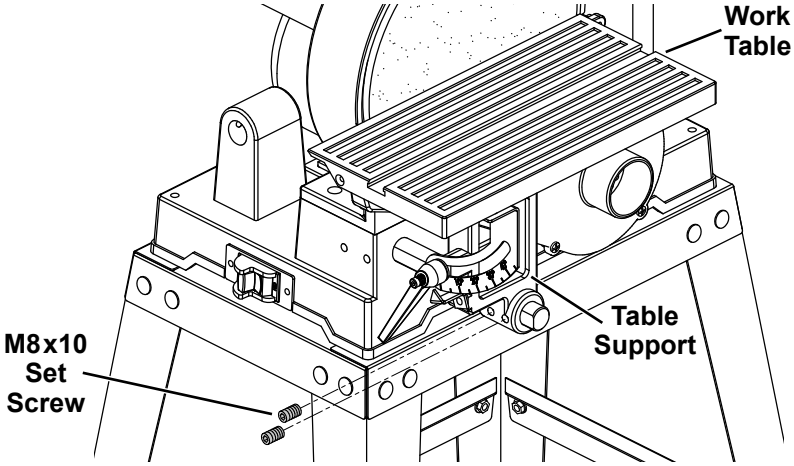


Mounting Work Table

1. Insert the round end of the Table Support Bar (56) into the mounting hole on the side of the Base (66) as shown.
2. Turn the Support Bar so the flat side of the Bar is facing the Set Screws.
3. Tighten the two M8x20mm Set Screws (65) on the side of the Base to secure the Bar.



4. Slide the Work Table assembly onto the Table Support Bar.
5. Adjust the Table so the edge is a maximum of 1/16 inch from the Sanding Disc.
6. Tighten the two M8x10mm Set Screws (50) on the Table Support (51) to secure the Work Table.



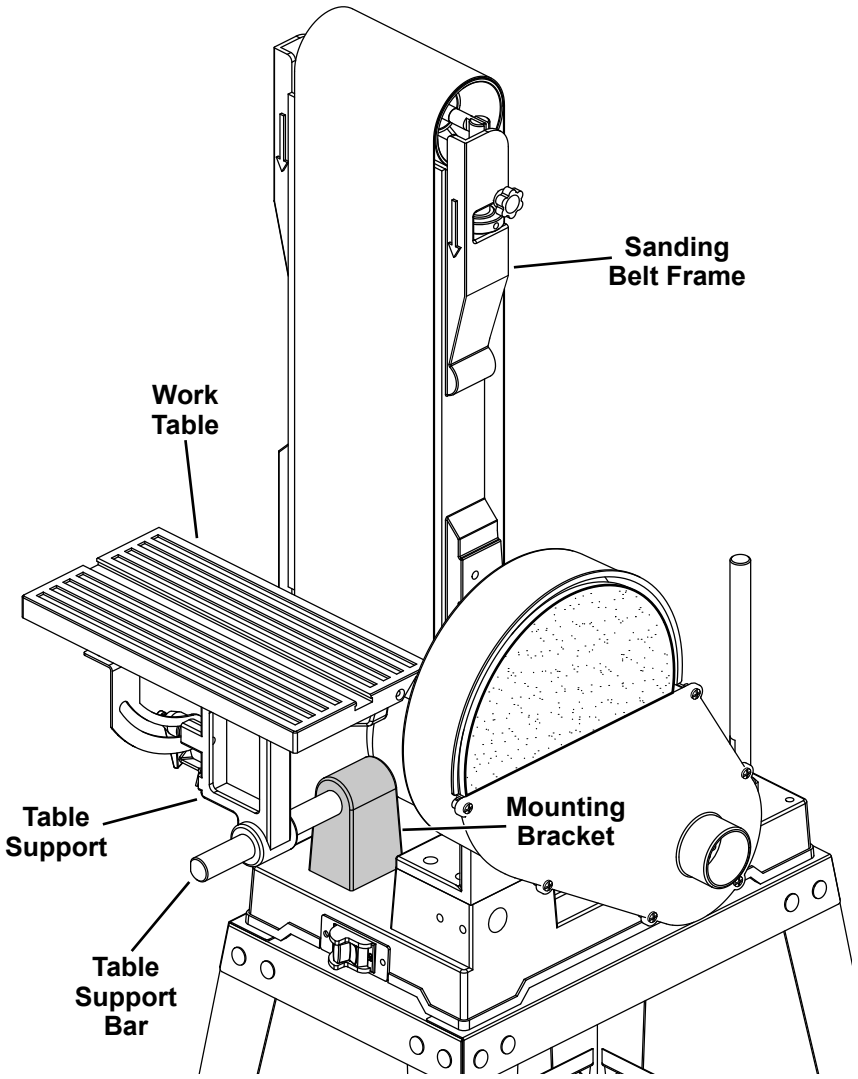
7. When using the Belt Sander in its vertical position, the Work Table may be repositioned to the front of the Sanding Belt Frame.

8. To reposition the Work Table, loosen the two M8x20mm Set Screws on the side of the Base and remove the Work Table with the attached Table Support Bar.

9. Insert the Table Support Bar into the mounting hole on the Mounting Bracket and tighten the two M8x10mm Set Screws on the Bracket.

10. Loosen the two M8x10mm Set Screws on the Table Support and adjust the Work Table so the edge is a maximum of 1/16 inch from the Sanding Belt.

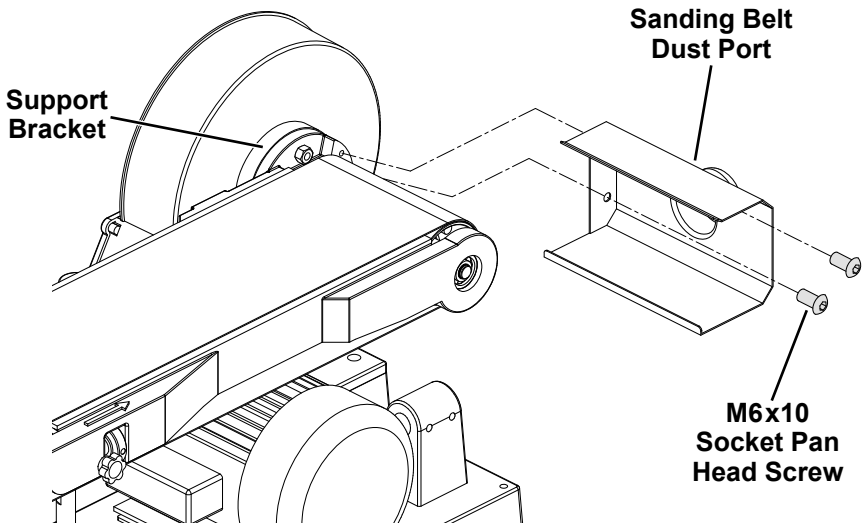
11. Tighten the two M8x10mm Set Screws on the Table Support to secure the Work Table.



Install Sanding Belt Dust Port

1. Align the two mounting holes in the Sanding Belt Dust Port (10) with the two threaded mounting holes on the Support Bracket.

2. Attach the Dust Port to the Bracket using two M6x10 Socket Pan Head Screws (9).



Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Tool Set Up

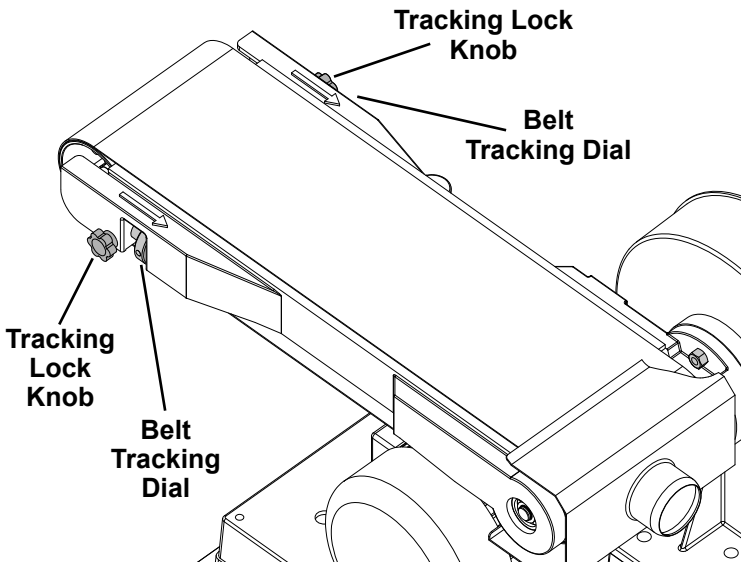
⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY:
DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED.

Adjusting Sanding Belt Tracking

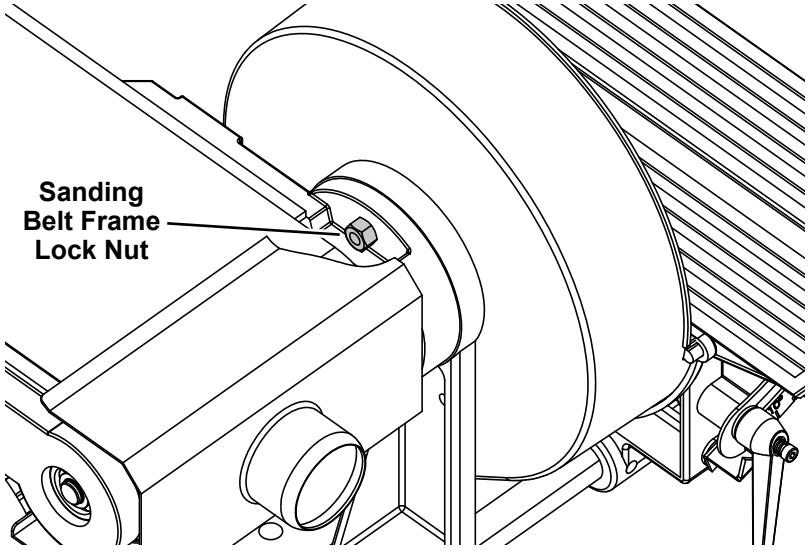
1. Make sure the Belt Tracking Dials are evenly tightened on both sides and that the Sanding Belt is sufficiently tight.
2. Spin the Belt down by hand to note any gross side to side movement. The Belt should remain centered on the front and rear Drums. If the Belt starts moving to the side of either Drum, it needs to be adjusted.
3. If the Belt moves to the left, increase tension on the left side Tracking Dial. If the Belt moves to the right, increase tension on the right side Tracking Dial.
4. To fine tune tracking, turn the Sander on and immediately off again after adjustment to check alignment.
5. If necessary, continue to adjust the Belt Tracking Dials until the Belt rides in the center of the front and rear Drums, then tighten the Tracking Lock Knobs.



Changing Sanding Belt Frame Position

The Sanding Belt Frame can be used in a horizontal or vertical position or at any angle in-between. To change the Belt Frame position, do the following:

1. Loosen the Sanding Belt Frame Lock Nut and raise the Sanding Belt Frame to the desired vertical position/angle.
2. After positioning, wrench tighten the Lock Nut securely to prevent the Sanding Belt Frame from slipping.

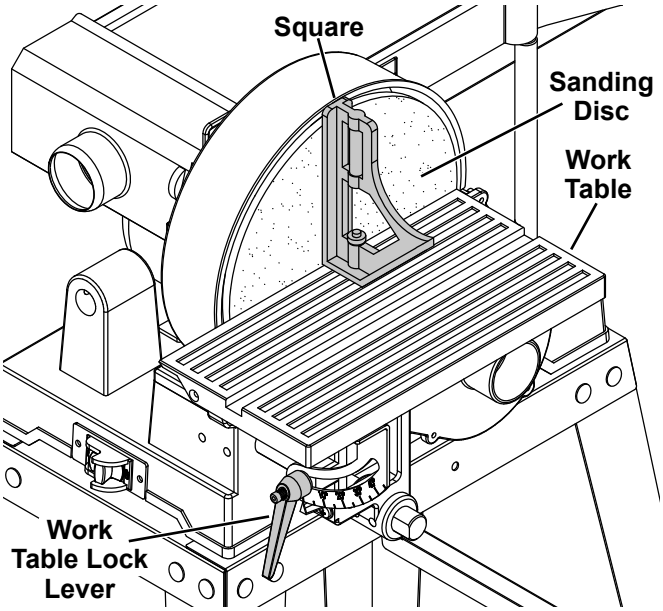


Leveling the Work Table

For accurate end sanding the Work Table must be square to the Sanding Disc.

1. Place a combination square or framing square (not included) on the Table so that the square touches the Sanding Disc. If the Table is 90° to the Sanding Disc, the Table is level. Always maintain a maximum of 1/16" clearance between the Table and the Sanding Disc.

2. If the Table is not 90° to the Sanding Disc pad, loosen the Work Table Lock Lever and tilt the Table until it is square with the Sanding Disc. Tighten the Lock Lever.



Dust Collection Setup

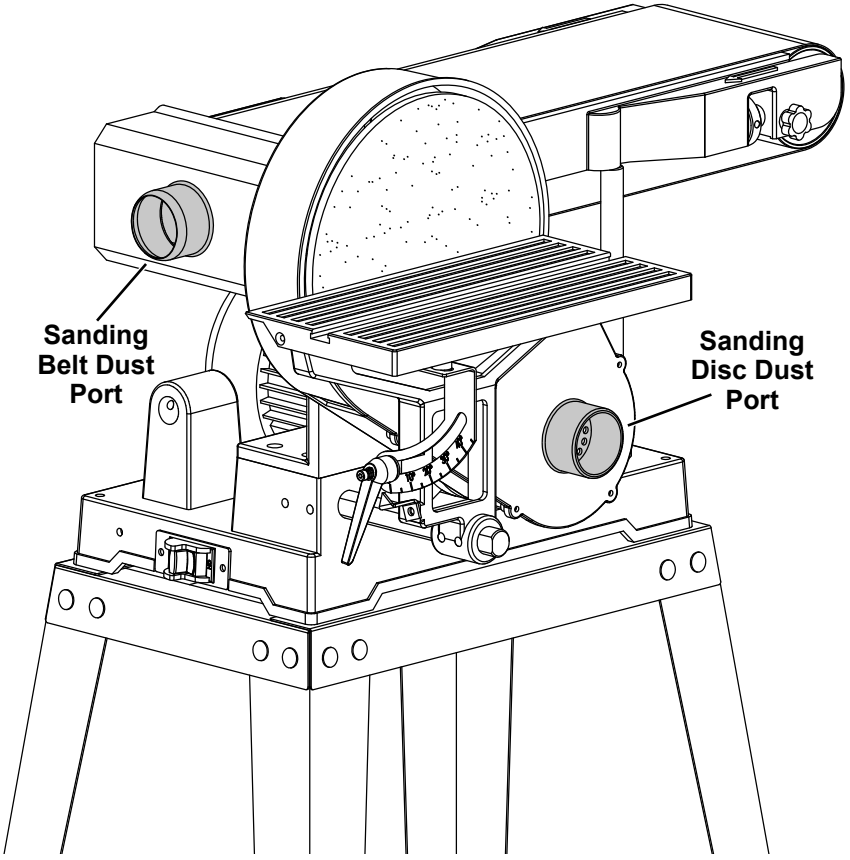
To minimize dust, the Sander is equipped with two Dust Ports for connecting to a dust collection system.

1. When using the Belt Sander, connect a 2" dust collection hose and hose clamp from the Sanding Belt Dust Port to a shop vacuum or dust collection system (hose and system not included).

2. When using the Disc Sander, connect a 2" dust collection hose and hose clamp from the Sanding Disc Dust Port to a shop vacuum or dust collection system (hose and system not included).

3. Periodically check the Dust Collection Ports for sawdust buildup that would reduce the dust collection efficiency.

4. It is recommended to wear a dust mask or respirator even when using a dust collection system.



Work Area Set Up

1. Designate a work area that is clean and well lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. There must not be objects, such as utility lines, nearby that will present a hazard while working.
3. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.

General Operating Instructions

1. Make sure that the Switch is in the off-position, then plug in the tool.
2. Turn on the shop vacuum or dust collection system (if used).
3. Insert Safety Key into Switch.
4. Make sure nothing is contacting the Sanding Disc or Belt, then turn on the Switch.
5. When using the Disc Sander, only use the LEFT side of the Sanding Disc (as you face it) to sand. The Sanding Disc turns counterclockwise and using the right side could cause kickback.
6. Use two hands and hold workpiece securely against the Fence/Work Table at all times. Press the workpiece against the Belt/Disc to start sanding. Keep the workpiece moving for a better finish.
7. Occasionally check the Sanding Belt and Sanding Disc for tears, wear, or fraying. Replace used or worn sanding belts or discs when necessary.
8. After use, turn off the tool, remove the Safety Key from the Switch, and disconnect from the power supply. Clean and store the tool indoors out of children's reach.

CENTRAL® MACHINERY

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off and unplug the tool from its electrical outlet before performing any procedure in this section.

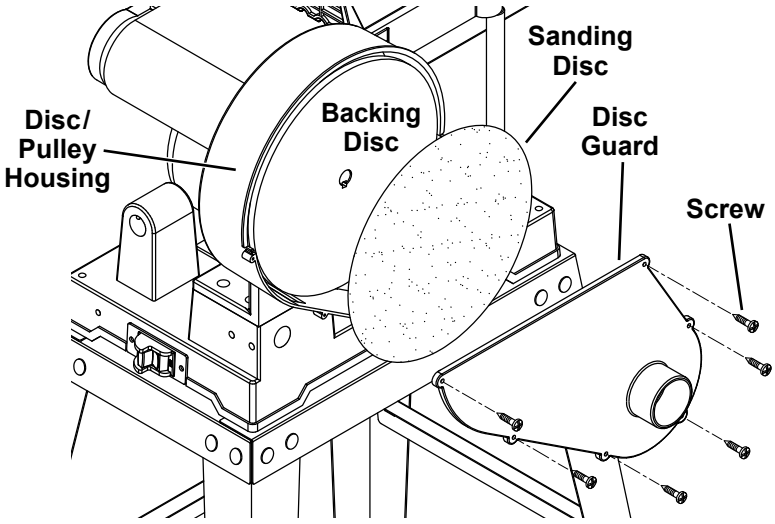
TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE,** inspect the general condition of the tool. Check for:
   - loose hardware
   - misalignment or binding of moving parts
   - cracked or broken parts
   - damaged electrical wiring
   - any other condition that may affect its safe operation.
2. **AFTER USE,** turn off the tool, remove the Safety Key from the Switch, and disconnect its power supply. Then, wipe external surfaces of the tool with clean cloth.
3. Apply a light coat of paste wax to the Work Table to make feeding material easier.
4. Periodically, wear ANSI-approved safety goggles and NIOSH-approved breathing protection and blow dust and debris out of the motor vents using dry compressed air.
5. The Bearings on this Sander are sealed and do not require lubrication.
6. **⚠WARNING! TO PREVENT SERIOUS INJURY: If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.**

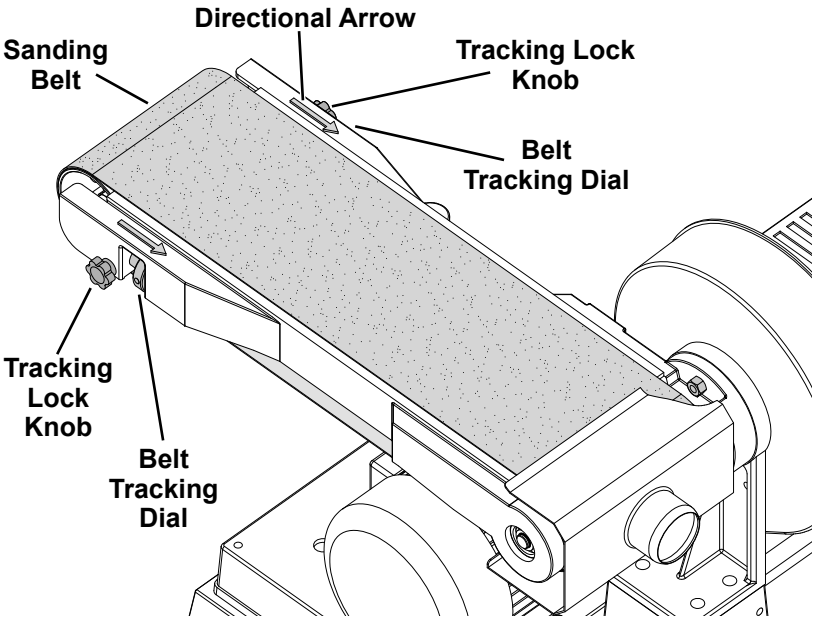
Sanding Disc Replacement

1. Remove the Work Table if it is mounted in front of the Sanding Disc.
2. Remove the Screws holding the Disc Guard in place and remove the Guard.
3. Peel off old Sanding Disc.
4. Wipe down the Backing Disc with denatured alcohol to remove any residue and ensure a secure bond.
5. Remove backing from new Sanding Disc.
6. Align perimeter of new Sanding Disc over the Backing Disc and press Sanding Disc firmly onto the Backing Disc.
7. Position the Disc Guard back in place against the Disc/Pulley Housing. Replace the Screws and fasten securely.



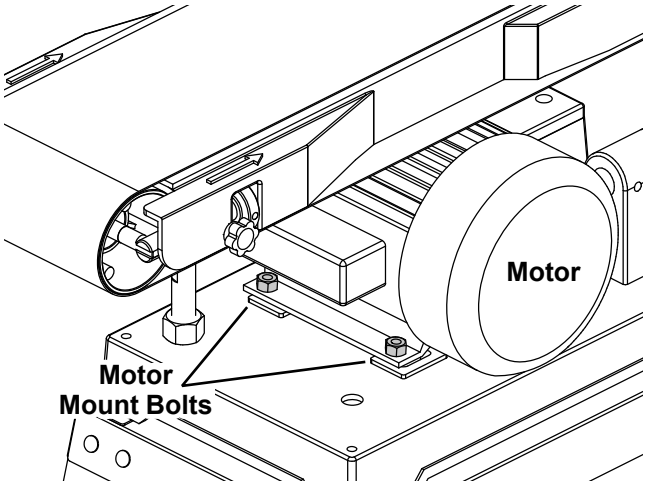
Sanding Belt Replacement

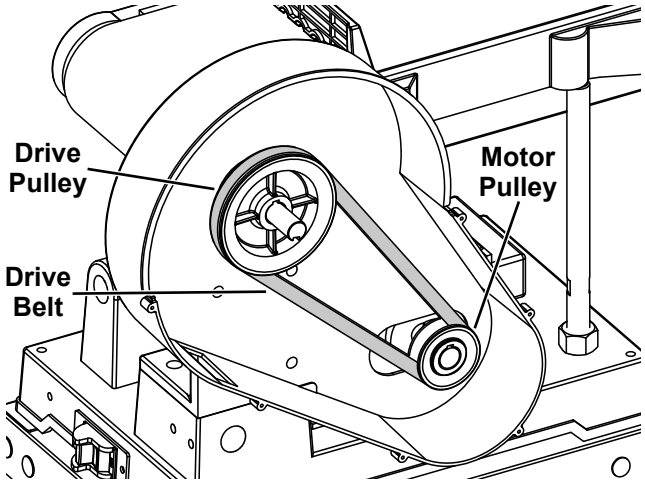
1. Loosen the Tracking Lock Knobs on both sides of the Sanding Belt Frame. Loosen the Belt Tracking Dials to release tension on the Sanding Belt.
2. Push down on the upper Drum and pull the old Sanding Belt off the Drums from the side opposite the Sanding Disc.
3. Slide a new 6"x48" Sanding Belt onto the Drums with the arrows on the inside of the Belt pointing in the direction of rotation as indicated by the directional arrows on the tool.
4. Center the Belt correctly on both Drums. Tighten the Tracking Dials and Lock Knobs on both sides to tighten the Belt to the Sanding Belt Frame.
5. Before using, check the new Sanding Belt for alignment. Refer to *Adjusting Sanding Belt Tracking* on page 13.



Drive Belt Replacement/Tensioning

1. Remove the Work Table if it is mounted in front of the Sanding Disc.
2. Remove the Screws holding the Disc Guard in place and remove the Guard.
3. Loosen the M8x10mm Set Screw on the Backing Disc and slide the Disc off the drive shaft.
4. Loosen the four M8x20 Motor Mount Bolts that hold the Motor just enough to let the Motor move.
5. Move the Motor forward toward the Drive Pulley enough to allow the Drive Belt to slip off over the Drive and Motor Pulleys.
6. Remove the old Drive Belt. Place the new Drive Belt onto the Pulleys, making sure the Belt is properly seated in the grooves of both Pulleys.
7. Tighten the Drive Belt by moving the Motor backward away from the Drive Pulley. Hold the Motor in place and retighten the four Motor Mount Bolts.
8. Check Drive Belt tension by squeezing both sides of the Belt toward each other. When properly adjusted, the Belt should deflect anywhere from 1/8 to 1/4 inch. Make sure the Belt is properly seated in the grooves of both Pulleys.
9. When Belt tensioning is complete, reinstall the Backing Disc and Disc Guard.





Troubleshooting

Problem	Possible Causes	Likely Solutions
Belt/Disc Sander does not turn on	1. Not plugged in. 2. No power at outlet. 3. Safety Key not inserted into Switch. 4. Switch is not turned ON.	1. Plug in Sander. 2. Check power at outlet and/or circuit breaker. 3. Insert Safety Key into Switch. 4. Turn on the Switch.
Motor slows when sanding	1. Drive Belt too tight. 2. Applying too much pressure while sanding.	1. Adjust Drive Belt tension. Refer to *Drive Belt Replacement/Tensioning* on page 17. 2. Use less pressure.
Wood burns while sanding	1. Sanding Disc or Belt may be loaded with dirt or debris. 2. Applying too much pressure while sanding.	1. Clean or replace Disc or Belt using instructions in this manual. 2. Use less pressure.

Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect power supply before service.

PLEASE READ THE FOLLOWING CAREFULLY

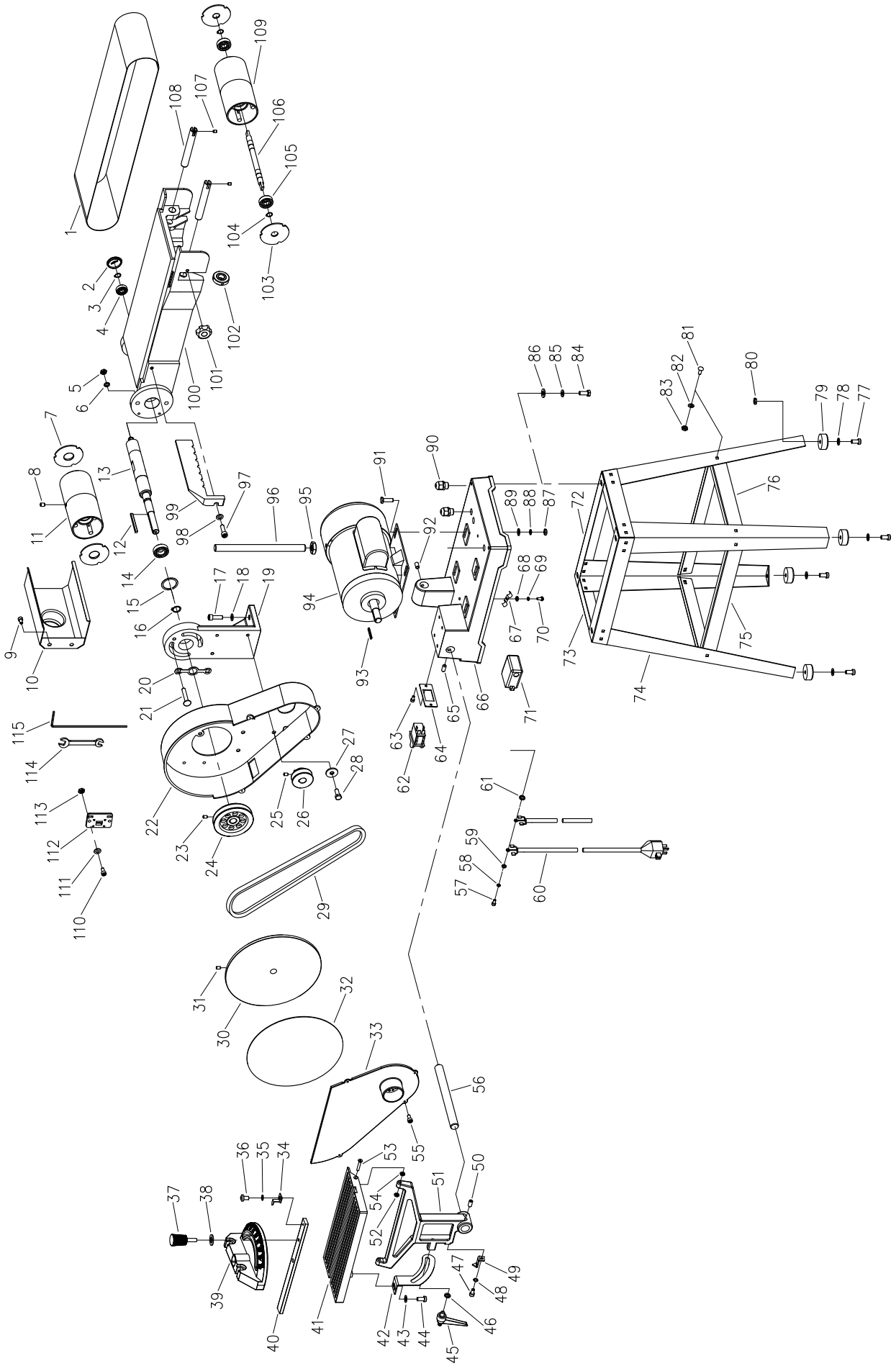
THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Parts List

Part	Description	Qty
1	Sanding Belt 6x48"	1
2	Bearing Cover	1
3	C-Ring 12mm	1
4	Ball Bearing 6201	1
5	Nut M8	2
6	Lock Washer 8mm	2
7	Drum Cover	2
8	Set Screw M8x10	2
9	Socket Pan Head Screw M6x10	2
10	Sanding Belt Dust Port	1
11	Drive Drum	1
12	Machine Key 5x55mm	1
13	Drive Shaft	1
14	Ball Bearing 6003-2ZN	1
15	Bearing Snap Ring	1
16	C-Ring 17mm	1
17	Hex Head Bolt M8x25	4
18	Flat Washer 8mm	4
19	Support Bracket	1
20	Spacer Plate	1
21	Carriage Bolt M8x40	2
22	Belt House	1
23	Set Screw M8x10	1
24	Drive Pulley	1
25	Set Screw M8x10	1
26	Motor Pulley	1
27	Washer 8mm	4
28	Hex Head Bolt M8x12	4
29	V-Belt	1
30	Aluminum Disc	1
31	Set Screw M8x10	1
32	Sanding Disc 9"	1
33	Disc Guard	1
34	Pointer	1
35	Flat Washer 4mm	1
36	Pan Head Screw M4x6	1
37	Miter Gauge Lock Knob	1
38	Flat Washer 6mm	1
39	Miter Gauge	1
40	Guide Bar	1
41	Work Table	1
42	Angle Plate	1
43	Washer 8mm	1
44	Hex Head Bolt M8x12	1
45	Work Table Lock Handle	1
46	Flat Washer 8mm	1
47	Pan Head Screw M5x12	1
48	Flat Washer 5mm	1
49	Pointer	1
50	Set Screw M8x10	2
51	Work Table Support	1
52	Nut	2
53	Flat Head Bolt M5x40	2
54	nut M5	2
55	Thread Forming Screw	4
56	Support Bar	1
57	Pan Head Screw M5x10	1
58	Lock Washer 5mm	1

Part	Description	Qty
59	Flat Washer 5mm	1
60	Power Cord	1
61	Serriated Washer	1
62	Switch	1
63	Thread Forming Screw	2
64	Switch Plate	1
65	Set Screw M8x20	2
66	Base	1
67	Cord Clamp Plate	2
68	Flat Washer 5mm	2
69	Lock Washer 5mm	2
70	Pan Head Screw M5x12	2
71	Switch Box	1
72	Long Top Frame	2
73	Short Top Frame	2
74	Leg	4
75	Long Brace	2
76	Short Brace	2
77	Socket Head Bolt M8x25	4
78	Flat Washer 8mm	4
79	Rubber Foot	4
80	Nut M8	4
81	Carriage Bolt M6x12	24
82	Flat Washer 6mm	24
83	Nut M6	24
84	Hex Head Bolt M8x16	4
85	Lock Washer 8mm	4
86	Flat Washer 8mm	4
87	Nut M8	4
88	Lock Washer 8mm	4
89	Flat Washer 8mm	4
90	Strain Relief	2
91	Hex Head Bolt M8x20	4
92	Set Screw M8x10	2
93	Machine Key 5x25mm	1
94	Motor	1
95	Nut M16x1.5	1
96	Support Bar	1
97	Hex Head Bolt M8x20	1
98	Flat Washer 8mm	1
99	Work Stop	1
100	Sanding Belt Frame	1
101	Lock Knob	2
102	Belt Tracking Dial	2
103	Drum Cover	2
104	C-Ring 12mm	2
105	Ball Bearing 6201	2
106	Shaft	1
107	Set Screw M5x6	1
108	Adjusting Shaft	2
109	Idler Drum	1
110	Pan Head Screw M4x8	2
111	Flat Washer 4mm	2
112	Wrench Storage	1
113	Nut M4	2
114	Open End Wrench 10-13mm	1
115	Hex Wrench 4mm	1

Assembly Diagram



Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175460417 when ordering parts.

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

CENTRAL®
MACHINERY

26677 Agoura Road • Calabasas, CA 91302 • 1-888-866-5797