

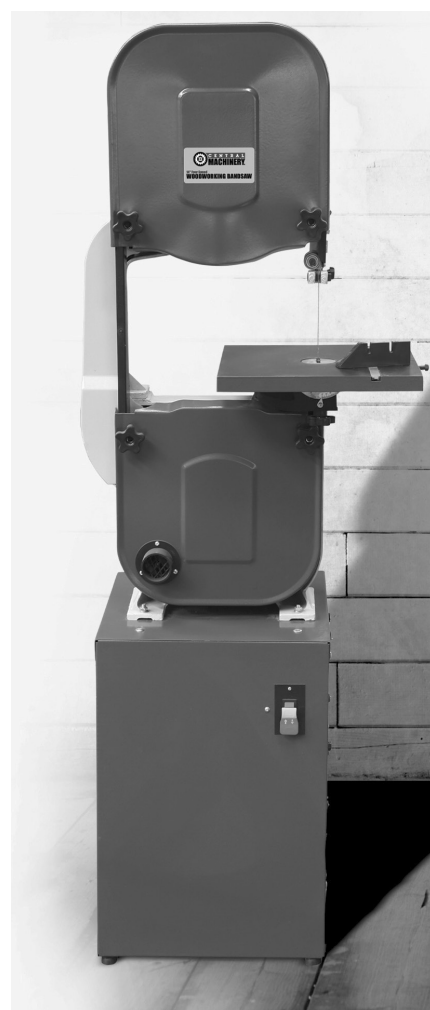
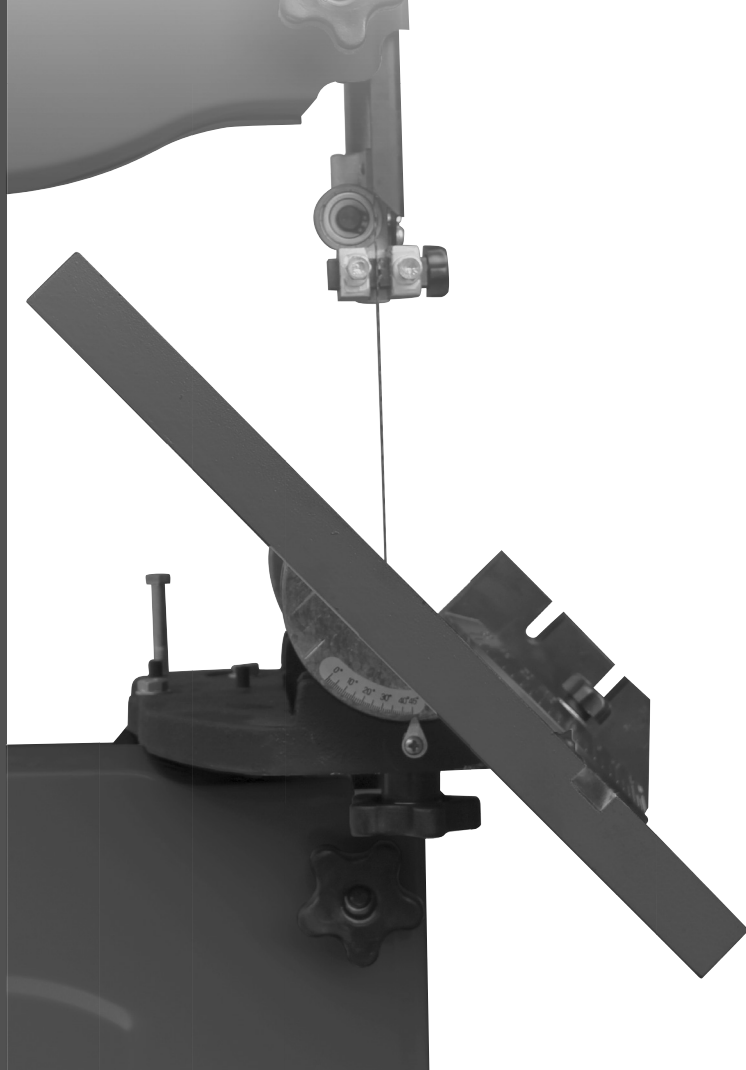
Owner's Manual & Safety Instructions

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 near the assembly diagram (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.

22j



14" FOUR SPEED WOODWORKING BANDSAW



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

60564

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.

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⚠ WARNING

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

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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.

General Tool Safety Warnings (cont.)

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. **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:**

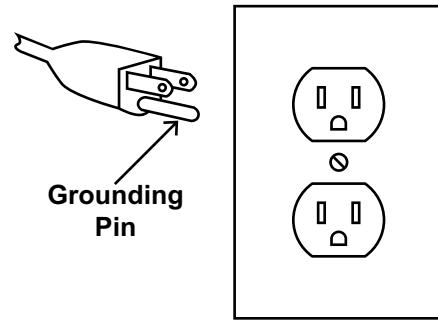
110-120 VAC Grounded Tools: Tools with Three Prong Plugs

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.

Grounding Instructions (cont.)

SAFETY

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 Amps)**

7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in **125 VAC 3-Prong Plug and Outlet**. The tool has a grounding plug that looks like the plug illustrated 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.

SETUP

Bandsaw Safety Warnings

For Your Own Safety Read Instruction Manual Before Operating Bandsaw

1. Wear eye protection.
2. Do not remove jammed cutoff pieces until blade has stopped.
3. Maintain proper adjustment of blade tension, blade guides, and thrust bearings.
4. Adjust upper guide to just clear workpiece.
5. Hold workpiece firmly against table.
6. **For safe operation, the upper blade guide, the blade tension, and the thrust bearing must all be properly adjusted before operation.** Carefully follow the **ASSEMBLY** instructions, and specifically "**Saw Blade Installation**" in Operating Instructions, for an explanation of how to make the needed adjustments.
7. Use special care when unpacking or replacing Bandsaw blade. Blade can be under tension and may suddenly uncoil. Wear ANSI-approved safety glasses under a full face shield and heavy-duty work gloves.
8. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED. Moving guards must move freely and close instantly.**
9. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
10. When servicing use only identical replacement parts.
11. 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.
12. 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.
13. Industrial applications must follow OSHA guidelines.
14. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
15. Avoid unintentional starting. Prepare to begin work before turning on the tool.
16. 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.

OPERATION

MAINTENANCE

Bandsaw Safety Warnings (cont.)

17. 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 / 7.1A
Max. Cutting Width	14"
Max. Cutting Height	6"
Speeds (4)	568, 1080, 1582, and 2529 FPM (Feet Per Minute)
Table Size	14" x 14"
Table Tilt	0-45°
Blade Size	93-1/2" L x 3/8" W x 0.02" T
Table Height From Floor	42-1/2"

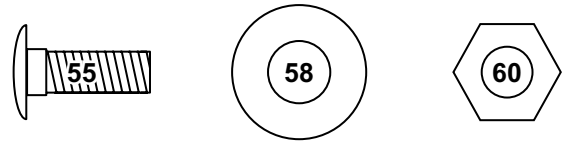
Setup - Before Use:

! 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.

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

Stand Assembly

Note: During this phase, finger tighten all Nuts to allow adjustment and leveling. All connections in this phase are made with one Carriage Bolt (55) going through the connection from the outside then being secured with a Washer (58) and Nut (60).



1. Insert two Carriage Bolts (55) through the lower tier of the Connecting Plate (5) and fasten to the top end of the Motor Plate (7). The top end of the Motor Plate has the shorter flange and the bottom end has the longer flange. See Figure 1.

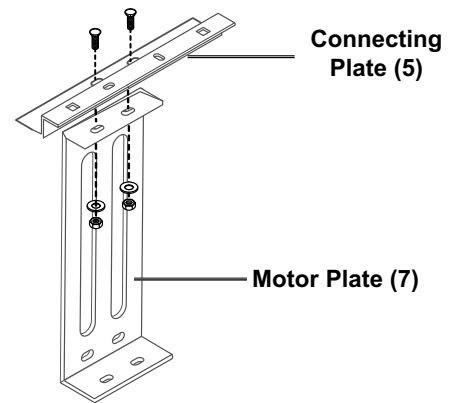


Figure 1

2. Fasten Supporting Plates (4) to the ends of the Base Plate (6). Attach the Motor Plate (7) to the end of the slots in the Base Plate. See Figure 2.

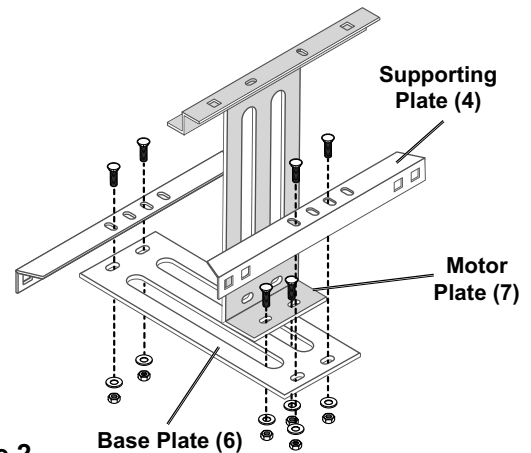


Figure 2

3. Fasten the Front Stand Leg (2), the one with the power switch hole, to the left side of the Plate assembly. Insert the carriage bolts through the Front Stand Leg's bottom mounting holes and into the mounting holes on the left of the Supporting Plate (4).

Fasten the Rear Leg (3) to the right side of the Supporting Plate.

Fasten second Supporting Plate on the other sides of the Front and Rear Stand Legs. See Figure 3.

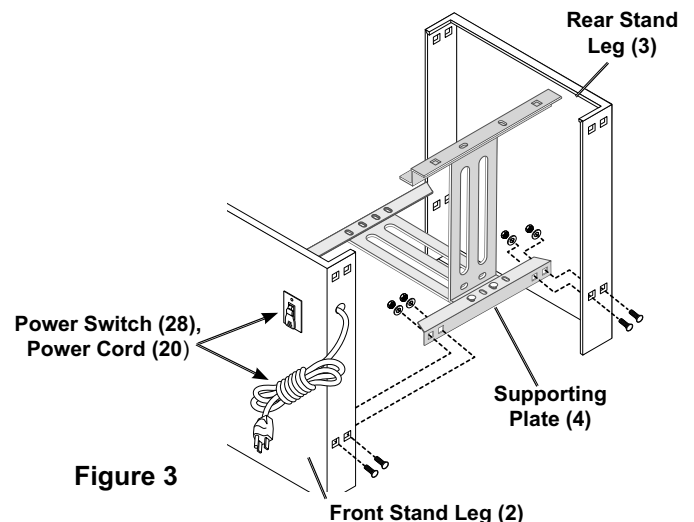


Figure 3

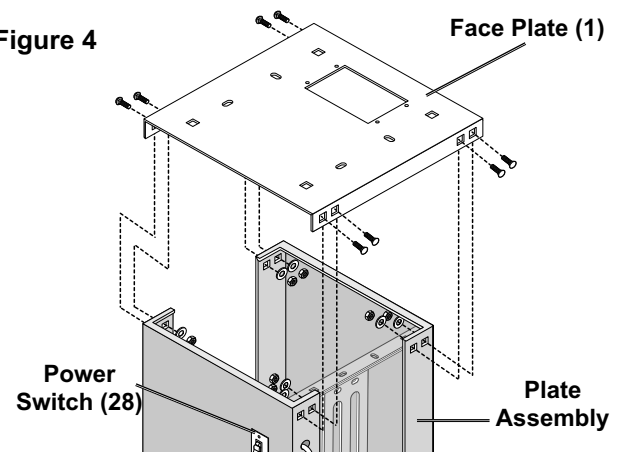
NOTE: See Figures 14 and 15 for instructions on connecting the Power Switch (28) and wiring the Power Cord (20).

Stand Assembly (continued)

- Set the Face Plate (1) onto the stand assembly and fasten to the top SIDE mounting holes on Front and Rear Stand Legs.

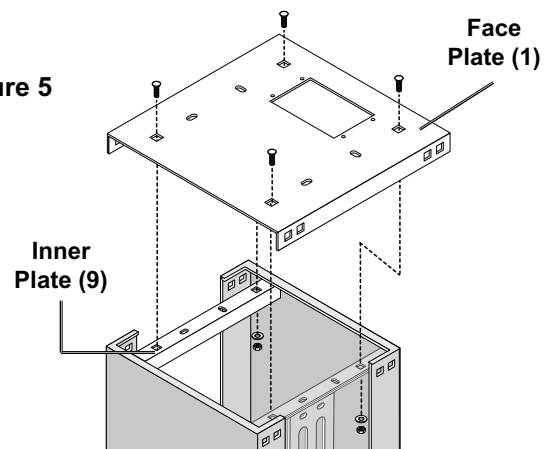
NOTE: Be sure that the belt opening on the Face Plate is positioned away from the power switch. See Figure 4.

Figure 4



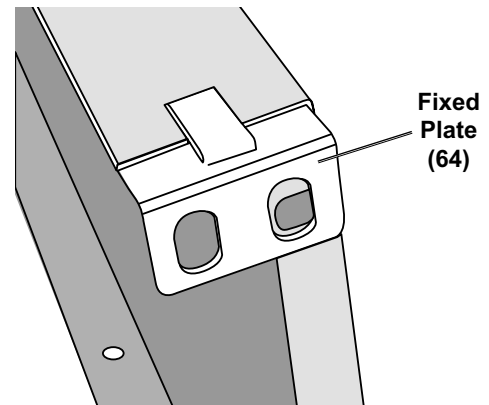
- Slide the Inner Plate (9) under the Face Plate (1) and fasten together using the TOP mounting holes. Then fasten to the Plate Assembly. See Figure 5.

Figure 5



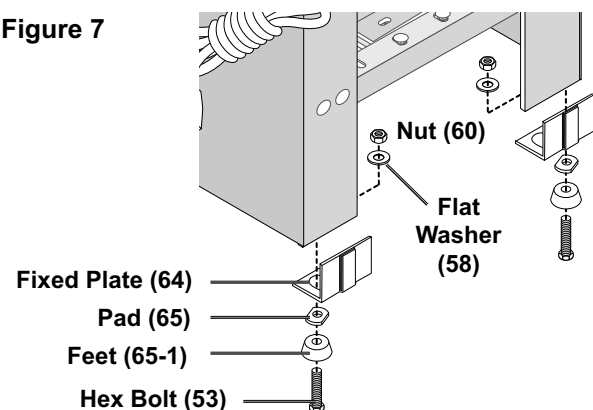
- Set the Fixed Plates (64) against each bottom corner of the Front and Rear Legs, making sure the mounting holes face downward. See Figure 6.

Figure 6



- Use Hex Bolts (53) to fasten Feet (65-1), Pads (65), and Fixed Plates (64) together. Secure Feet to Stand bottom with the Flat Washer (58) and Nut (60). See Figure 7.
- Make sure Stand is level.** Adjust Pad (65) on Feet (65-1) as needed. When level, tighten all hardware connections.

Figure 7



Motor to Stand Assembly - Motor Mounting

1. Have an assistant hold the Motor (10) in place while it is attached to the Motor Plate (7). Turn it so that the mounting slots on the Motor face the Motor Plate.
2. Note there are two rows of slots on the Motor Plate. See Figure 8.
3. Line the Motor Pulley up with the hole in the table top. When the Bandsaw housing is attached, you will line up the Saw Pulley with the Motor Pulley below it, as seen in Figure 11.
4. Insert a Bolt (53) and Washer (58) through each side slot from the outside to the Motor. Secure the Motor (10) to the Motor Plate (7) using Nuts (60), Washers (58), and Lock Washers (57). See Figure 8.

NOTE: Leave the Nuts snug, but do not tighten them completely until you are ready to install the Saw Pulley and line it up with the Motor Pulley, later in the assembly.

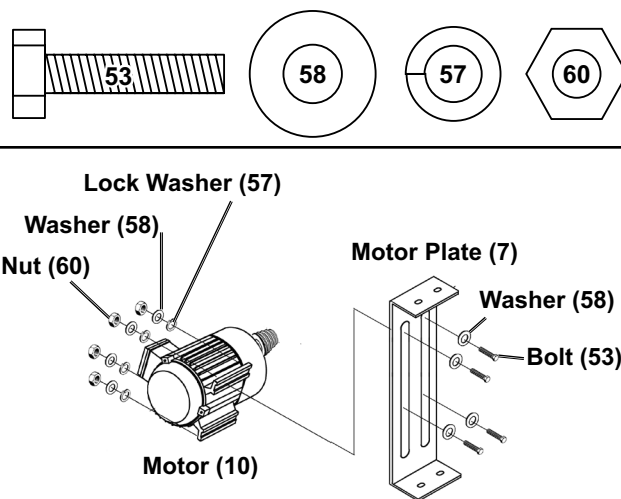
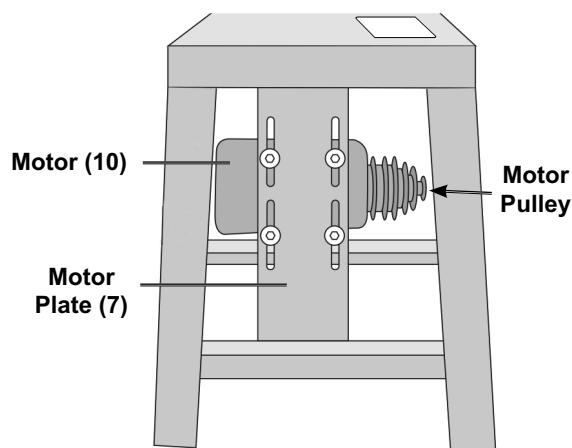


Figure 8



Bandsaw Body to Stand Assembly

1. Orient the Saw Body with the Stand before lifting it. The Pulley(s) need to align over the belt cutout hole and the four bolt holes must line up with the Stand mounting slots.
2. With at least one assistant, lower the Saw Body down on the Stand's Face Plate (1). Make sure that the holes in the Saw Body line up with the slots in the Stand and that the Pulley lines up over the belt cutout hole. See Figure 9.
3. Insert the four Bolts (91A) through one Washer (93A) each and into the holes in the Saw Body from the top.
4. Attach each Bolt using Washer, Lock Washer (92A), and Nut (48A). Leave the hardware only finger tight.
5. Measure to verify that the Saw Body is properly aligned to the Stand. Make needed adjustments.

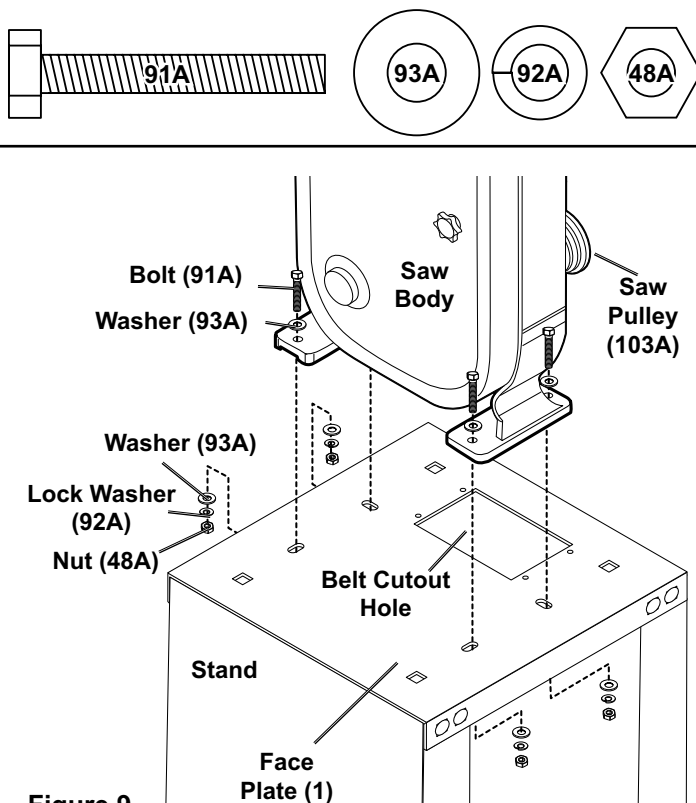


Figure 9

Saw Pulley Assembly

1. The Saw Pulley (103A) comes pre-assembled but you need to attach it to the Saw Body Base (34A) which is inside the Saw Body (see Figure 9). To attach the Saw Pulley, you will temporarily remove a few parts from the assembly.
2. Remove the outer most Nut (35A) and first Flat Washer (33A) from the end of the Saw Pulley assembly. Leave the Nut (35A) next to the Saw Pulley in place and hold its Flat Washer (33A) in place as you connect it to the Saw Base (34A).
3. While holding the Flat Washer in place, feed the Saw Pulley's shaft through the Saw Base's elongated opening as shown in Figure 10. Note that the Upper Wheel (24A) will be in front of the Saw Base but is not shown in Figure 10.
4. Line up the Pulleys using Figure 11 as a guide:
 - a. Line up the small inner most ring of the Saw Pulley to the Top Pulley above it.
 - b. Line up the four outside rings of the Saw Pulley to the Motor Pulley below it.
5. Once aligned, tighten the Pulley hardware and also the Stand/Saw Body hardware.

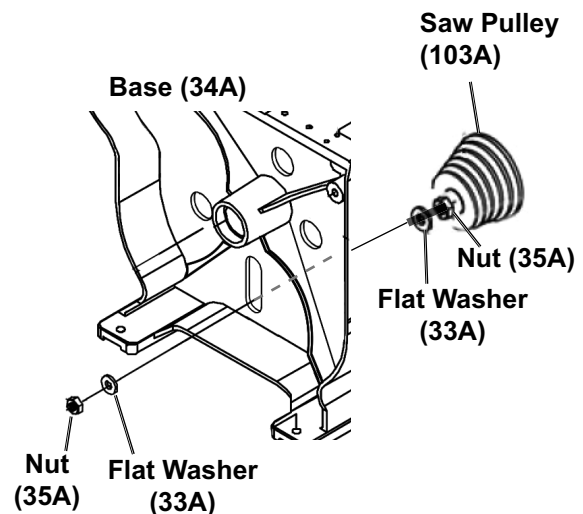


Figure 10

Belt and Pulley Orientation

1. The Top Pulley (63A) comes pre-assembled to the Saw Body.
2. Be sure the Top Pulley aligns to the Saw Pulley's small inner-most ring.
3. The Saw Pulley's four outside rings should align with the Motor Pulley's four rings.
4. The Bandsaw assembly kit contains two belts:
 - a. The Short Belt (101A) attaches from the Top Pulley to the Saw Pulley.
 - b. The Long Belt (102A) attaches the Saw Pulley to the Motor Pulley.
5. Install the belts later. See Figure 20 in "Belt Installation" for details.

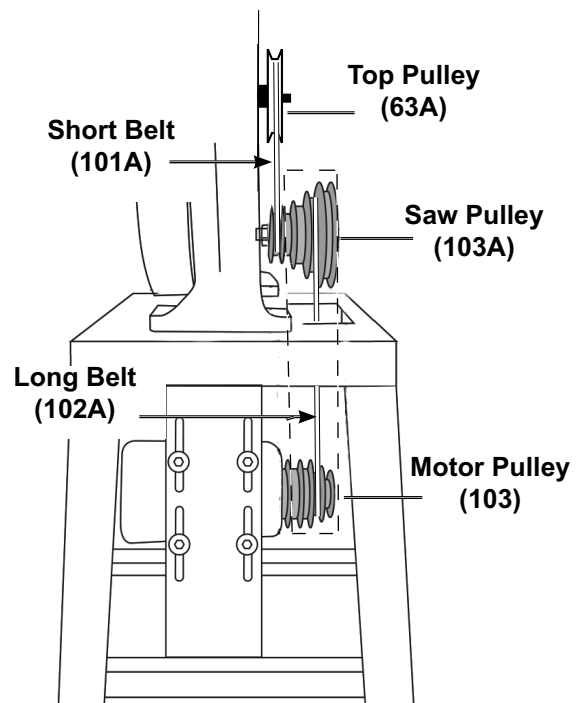


Figure 11

Guide Post Assembly to Frame Arm

1. The Front Arm (1A) comes pre-assembled inside the Saw Body. You will connect the Guide Post (4A) to the Arm.
2. Insert the Guide Post (4A) into the Front Arm (1A) socket. Tighten Knob (6A) to secure the Post to the Arm. See Figure 12.
3. Proceed to Upper Blade Guard Assembly to Guide Post.

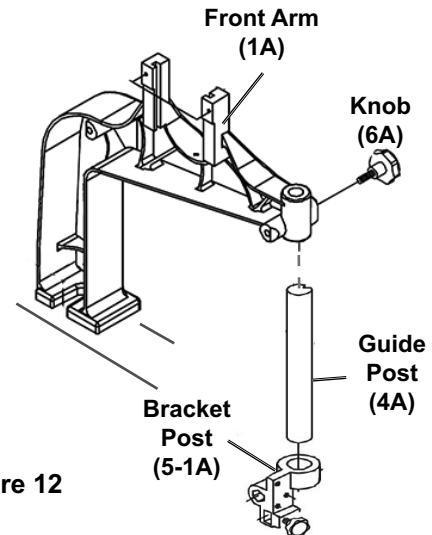


Figure 12

Upper Blade Guard Assembly to Guide Post

1. Assemble the Upper Blade Guard (2A) to the Bracket Post (5-1A) using two Hex Head Bolts (73A) and Flat Washers (74A).
2. Loosen Hex Bolt (3A) on the side of the Bracket Post. Slide the Guide Post (4A) into the Bracket Post (5-1A).
3. Slide the Upper Blade Guard (2A) up into the inside of the Upper Wheel Guard (29A) where the wheel resides. See Figure 13.
4. **The end of the Guide Post (4A) and the end of the Bracket Post (5-1A) should be flush with each other.**
5. Once aligned, tighten the Hex Bolt (3A) and Knob (6A) to secure it. Do not over-tighten.

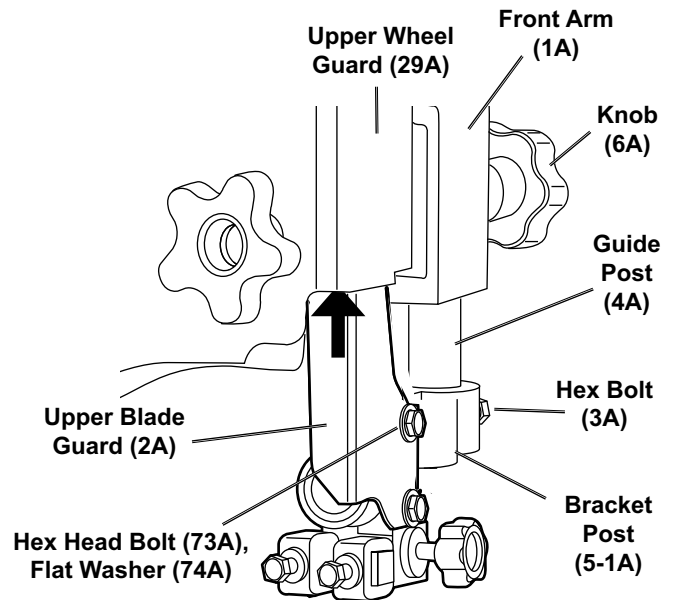


Figure 13

Attaching Power Switch to Motor



⚠️ WARNING

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

1. See Figure 14 to feed the Power Cord (20) through the strain relief Brushing (29). Then feed the Power Cord through the hole on the side of the Front Leg (2). Be sure the Power Cord wires are long enough to reach the power switch hole plus a little slack.
 2. Feed the Power Cord wires through the lower hole on the back of the Switch Box. Feed the green ground wire through the small hole on the side of the Switch Box. Position the Switch Box so that the small side hole points away from the Power Cord.
 3. Hold the Power Cord in place while pushing the strain relief Brushing (29) into the Front Leg side hole. Once in place, be sure Power Cord is secure to the Front Leg panel.
 4. Feed the Motor Cord wires through the upper hole on the back of the Switch Box, and then to the back of the Power Switch. Feed its green ground wire through the small hole on the side of the Switch Box, next to the Power Cord's green wire.
 5. See Figure 15 to connect the Motor Cord and Power Cord wires to the Power Switch. On the Power Switch, connect the Power Cord wires to the bottom connections (black "hot" wire, white "neutral" wire, and green "ground" wire). Connect the Motor cord wires to the top connections. Be sure the wires colors line up top to bottom: Black with black, white with white, and green with green.
- Note:** The two green wires are attached to the screw to the right of the Power Switch. Tighten its Nut (27) to secure in place.
6. From the inside of the Front Leg (2), attach the Switch Box (28) to the back of the Power Switch. Secure Switch in place using Screws (23).

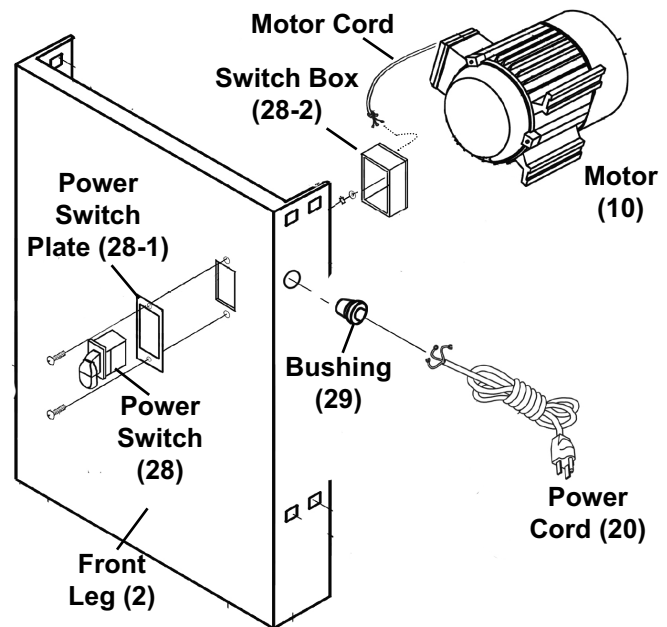


Figure 14

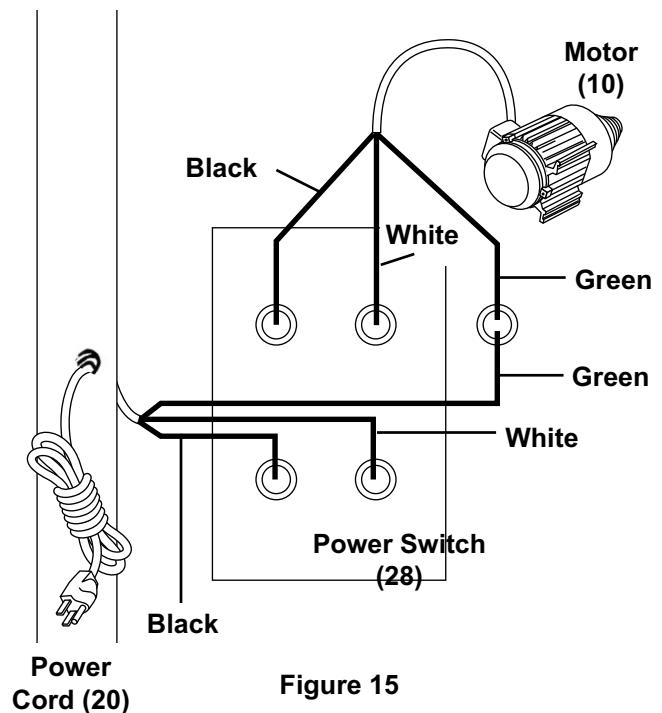


Figure 15



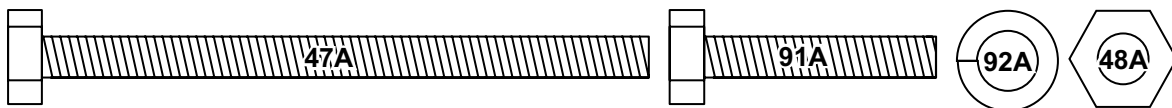
⚠️ WARNING! TO PREVENT ELECTRIC SHOCK, FIRE AND DEATH:

It is critical that the **GREEN** ground wire is attached to the terminal **OUTSIDE** the switch box and that **ONLY the GREEN** wire is attached outside the switch box. The included terminals are designed to reduce the risk of improper wiring; **DO NOT MODIFY, REPLACE OR FORCE THE TERMINALS.**



If you have any doubt about your ability to connect the motor wires safely and securely, have a certified electrician connect the wiring.

Table Assembly



1. Set the Table Bracket (45A) onto the Saw Body Base (34A) as shown in Figure 16. Note that the Table Bracket has a Stop Bolt Hole which should be on the same side as the Pulley. Also, the Saw Body Base has two threaded holes for two Bolts (91A).
2. Secure the Table Bracket to the Saw Body Base using two Bolts (91A), Spring Washers (92A), and Flat Washers (93A). Tighten securely in place.
3. Thread the Nut (48A) all the way to the head of Bolt (47A). Install the Bolt with Nut into the Table Stop Bolt Hole noted in Figure 16.

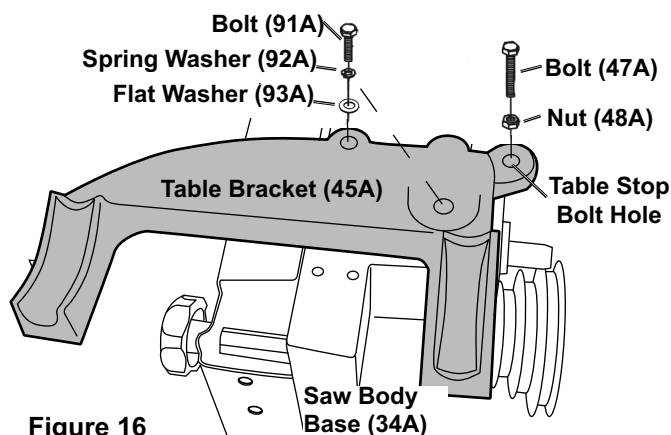


Figure 16

4. Attach the Bracket Post (55A) with Bearing (9A) to the Saw Body Base (34A) next to the Table Bracket. Secure in place with two Hex Bolts (53A) and Flat Washers (54A), as shown in Figure 17.

NOTE: The hardware for this step is packaged separately from the hardware bag.

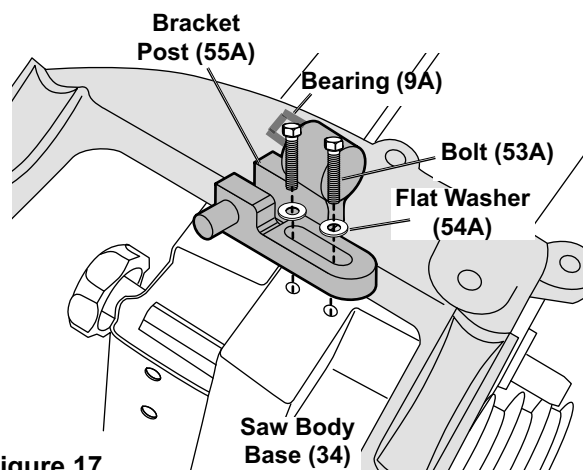


Figure 17

5. Locate the Table Bracket (45A). Note that there are two Bolts (40-1A) extending out from the bottom of the two Trunnions (42A). Insert those two Bolts through the holes in the Table Bracket and secure the Bolts in place using Knobs (46A). See Figure 18.

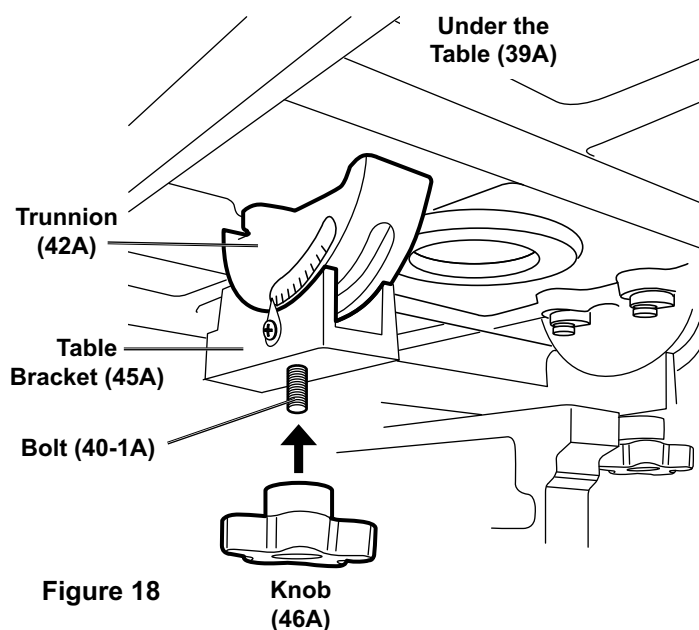
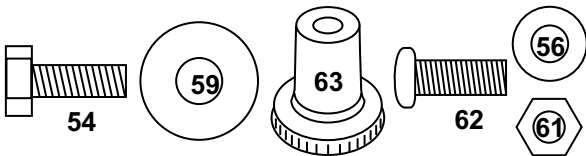


Figure 18

Pulley Cover Door Assembly and Belt Installation



- Once the belts are installed, set the Pulley Box (11) over the Top Pulley (63A) and Saw Pulley (103A) with the door opening to the outside. See Figure 19.
- Insert a Pan Head Bolt (62) through a Washer (56) and into each of the four holes at the bottom of the Pulley Box. Secure the Bolts (62) from underneath using one Washer (56) and Nut (61) each.
- Secure the Knob (63) to the door using Bolt (54) and Washer (59) from the other side. **Do not overtighten.**
- Close the Pulley Box door to make sure it closes completely and securely.

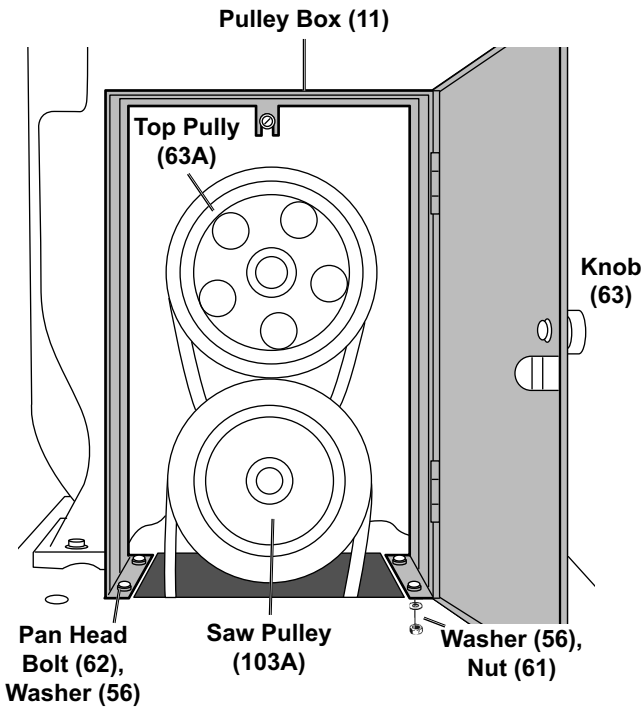


Figure 19

Belt Installation

- Slide the Motor up towards the top of its rail to allow easy belt installation.
- Using the chart "Pulley Speed Settings" to the right, choose which speed you would like the Saw Blade (36A) to operate at initially. Slide Long Belt (102A) onto the desired Motor Pulley (12) position. Then slide the Belt up over the Saw Pulley (103A) in the same numbered position. See Figure 20.
- To set Belt tension, have an assistant pull down on the Motor and hold it in place to put tension on the Belt. Then test the belt's tension by gently pushing in on it in between pulleys. If it only deflects about 1/2" to 3/4" from straight, then the belt is properly tensioned at that motor position. **While the assistant holds the motor at that position, secure the motor in place by tightening the previously loosened Bolts and Nuts.**
- After tightening, verify that all pulleys and belts are still aligned and their connecting hardware is secure.**

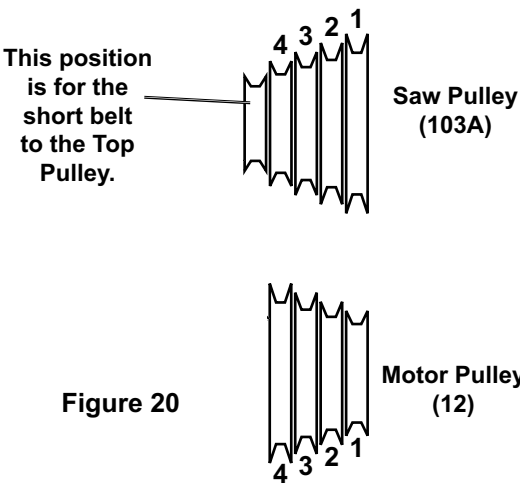


Figure 20

Pulley Speed Settings				
Position	1	2	3	4
Output FPM	568	1080	1582	2529

Note: The small unnumbered inner-most position on the Saw Pulley (103A) should ONLY be used to drive the Top Pulley (63A), and should not be used to change speeds.



Pulley Cover Assembly and Belt Installation (continued)

Side Panel Installation

9. Attach the Press Blocks to the textured side of the Side Panel (66) by screwing the Screws into the mounting holes on the Side Panel. Leave the Screws (68) just loose enough to allow the Press Blocks to turn. See Figure 21.

NOTE: Do not overtighten - use a screwdriver when tightening.

10. Position the Press Blocks so that they point towards the center of the Side Panel. See Figure 21.
11. While holding the Side Panel by the two finger holes, place it inside the side of the Stand as shown in Figure 21. Rotate the Press Blocks out and tighten the Screws (68) to secure the Side Panel in place. Repeat for the other Side Panel.

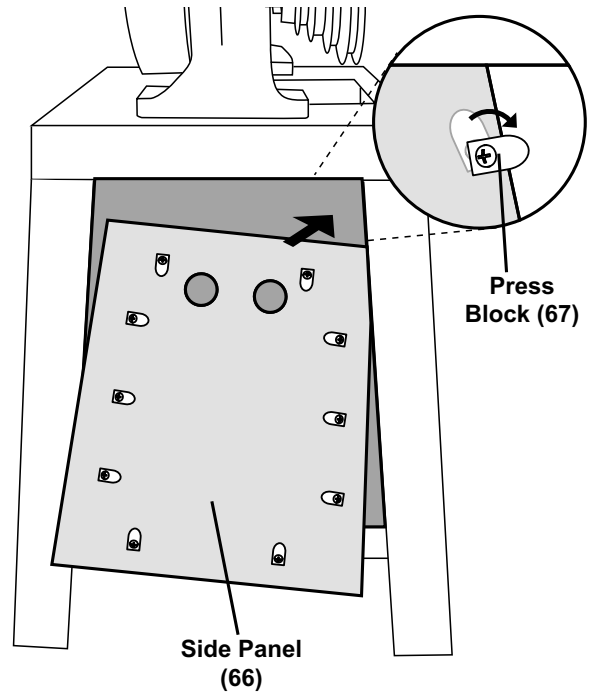


Figure 21

Operating Instructions



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 to its “OFF” position and unplug the tool from its electrical outlet before assembling or making any adjustments to the tool.

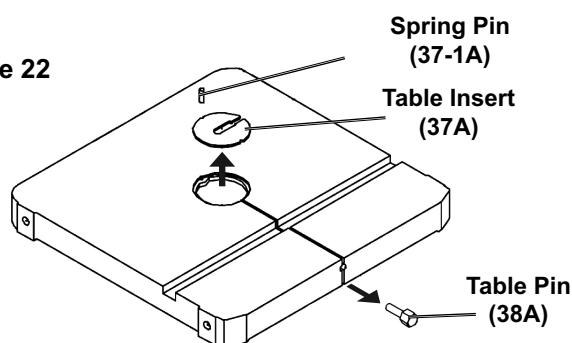
TO PREVENT SERIOUS INJURY:

DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED.

Saw Blade Installation

1. Fully open the Upper Wheel Guard (29A) and the Lower Wheel Guard (69A). These guards are next to the wheels inside the Saw Body.
2. Remove the Table Insert (37A) and Table Pin (38A). See Figure 22. Save the parts.

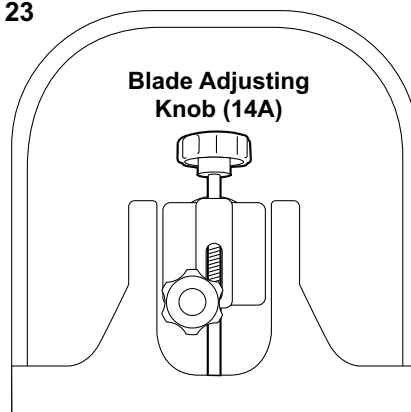
Figure 22



3. Turn the Blade Adjusting Knob (14A) counterclockwise 5-10 full turns. See Figure 23.

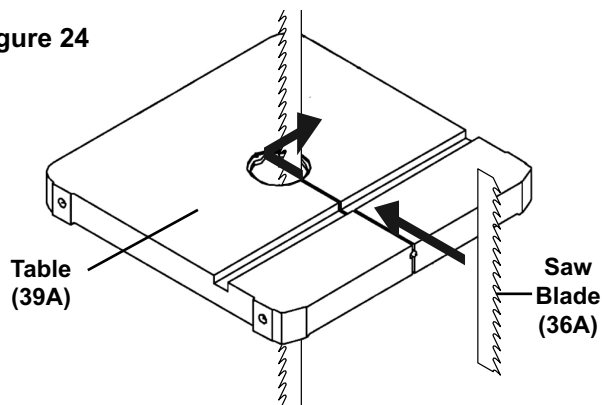
NOTE: If the Blade Guard (70A) on the back of the Upper Wheel Guard is installed, it must be removed prior to blade installation. See Figure 23 for location of the Blade Guard (70A).

Figure 23



⚠ CAUTION! Take extreme caution when unraveling the blade. The blade teeth are very sharp. Wear ANSI-approved safety goggles and gloves when handling the blade and hold it away from your body.

Figure 24



4. With both hands, hold the Saw Blade with its **teeth pointing downward** and away from your body. Then insert one side of the Saw Blade (36A) back side first and through the slot in the Table (39A). See Figure 24.

- Place the Saw Blade (36A) through the upper Blade Guides (11A) and over the Upper Wheel (24A). See Figure 25
- Place the Saw Blade (36A) on the Lower Wheel (67A) and through the lower Blade Guides (11-1A), under the table.

NOTE: If the blade is too tight for positioning, turn the Blade Adjusting Knob (14A) counter-clockwise to loosen just enough to get the blade onto the upper and lower wheels. See Figure 27 for location of the knob.

- Replace the saved Table Insert (37A) and Table Pin (38A), see Figure 24.
- Place the Blade Guard (70A) onto the two Studs and over the Saw Blade. See Figure 25.



WARNING! To prevent serious injury, place both Blade Guards (69A and 29A) over the Saw Blade and secure them BEFORE operation.

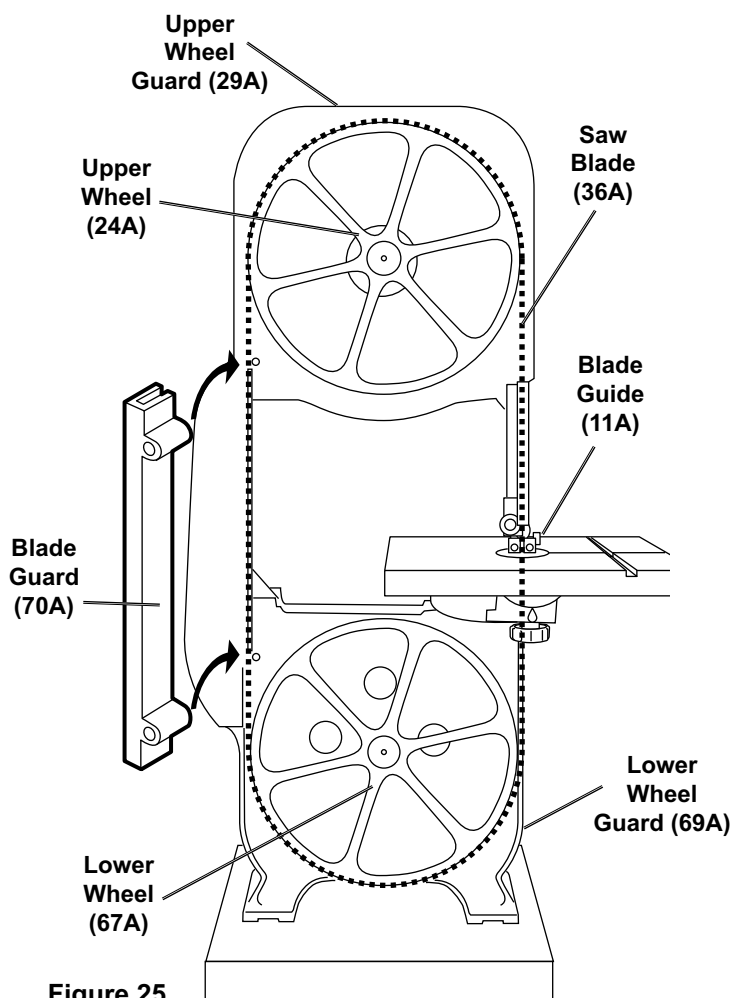


Figure 25

Dust Chute Setup (Optional)

If you wish to attach a dust collector to your Bandsaw, attach the Dust Port (94A) to the Lower Wheel Guard (69A) using Screws (95A). See Figure 26.

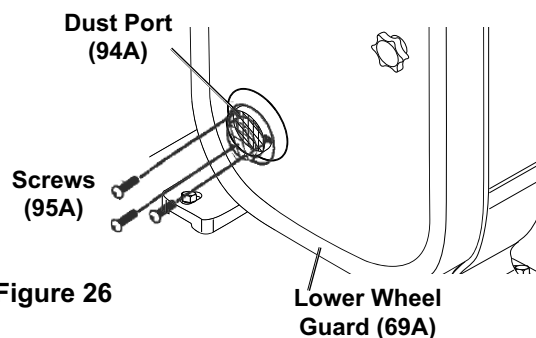


Figure 26

Saw Blade Tensioning and Tracking

The Saw Blade tension is adjusted using the Blade Adjusting Knob (14A) on the back of the Inner Wheel Guard (28A). Turn the Knob clockwise to increase tension and counter-clockwise to decrease tension.

Note: Too much tension is a common cause of Saw Blade breakage and other unsatisfactory performance. Relieve the tension when the Bandsaw is not in use.

- Adjust Upper and Lower Blade Guides so that they do not contact the blade during tracking adjustment.
- To adjust tracking placement of the blade on the wheel, loosen the nut on Blade Tracking Knob (18A).

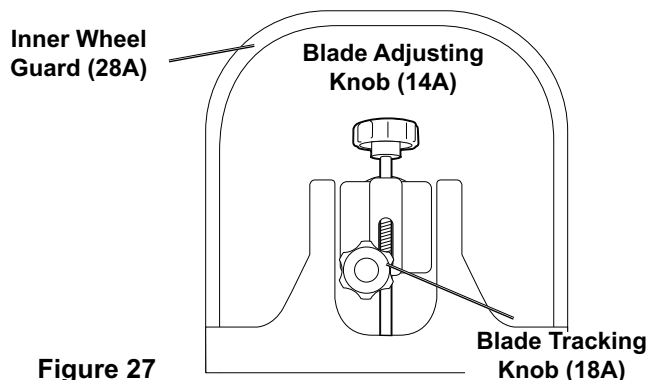


Figure 27

Saw Blade Tensioning and Tracking (continued)

11. **⚠ WARNING! To prevent serious injury; adjust blade tracking only with the Bandsaw off and power cord unplugged. Wear gloves.** Slowly turn the Upper and Lower Wheels clockwise by gloved hand and watch the Saw Blade to see whether it travels in the **CENTER** of the Upper Wheel. If it does not, adjust the tracking as follows:
- If the Saw Blade begins to creep toward the **front edge** of the Upper Wheel, turn the Blade Tracking Knob clockwise 1/4 turn to draw the Saw Blade toward the back of the Upper Wheel.
 - If the Saw Blade begins to creep toward the **back edge** of the Upper Wheel, turn the Blade Tracking Knob counterclockwise 1/4 turn to draw the Saw Blade toward the front of the Upper Wheel.

12. If any tracking adjustments were made, repeat the previous until the Blade stays centered on the Upper Wheel for at least 5 turns or so.
13. **Once alignment is achieved, tighten the nut on the shaft of the Blade Tracking Knob (18A), locking the tracking in place.**

Guide and Bearing Adjustment

1. **⚠ WARNING! TO PREVENT SERIOUS INJURY: Only adjust guides and bearings after blade tension and tracking is properly adjusted.**
2. Loosen Hex Bolts (10A) on the Bracket Post (5-1A) and make sure that the Bracket Post is aligned with the Saw Blade.
3. Loosen the Knob Screw (56-1A) on the side of the Bracket Post and adjust the upper Blade Guides' (11) position so that they line up with the **flat** portion of the Saw Blade without reaching the cutting edge. See Figure 28. Tighten the Knob Screw (56-1A) after adjustment.
4. Loosen two Hex Bolts (10A) and move the upper Blade Guides (11) as close as possible to the **side** of the Saw Blade without touching it. Once aligned, tighten the Hex Bolts.
5. Loosen the two Angle Knobs (46A) under the Table and pivot the Table forward as far as possible. See Figure 30.
6. Loosen the two Hex Bolts (53A) on the Bracket Post (55A) and adjust the lower Blade Guides' (11A) positions so that they line up with the **flat** portion of the Saw Blade without reaching the cutting edge. See Figure 28. Tighten the Hex Bolts (53A) after adjustment.
7. Pivot the Table backward as far as possible.
8. Loosen the two Front Hex Bolts and move the lower Blade Guides (11A) as close as possible to the **side** of the Saw Blade without touching it. Once aligned, tighten the Front Hex Bolts.
9. Return Table to its normal position and secure by tightening Knobs (46A). See Figure 30.

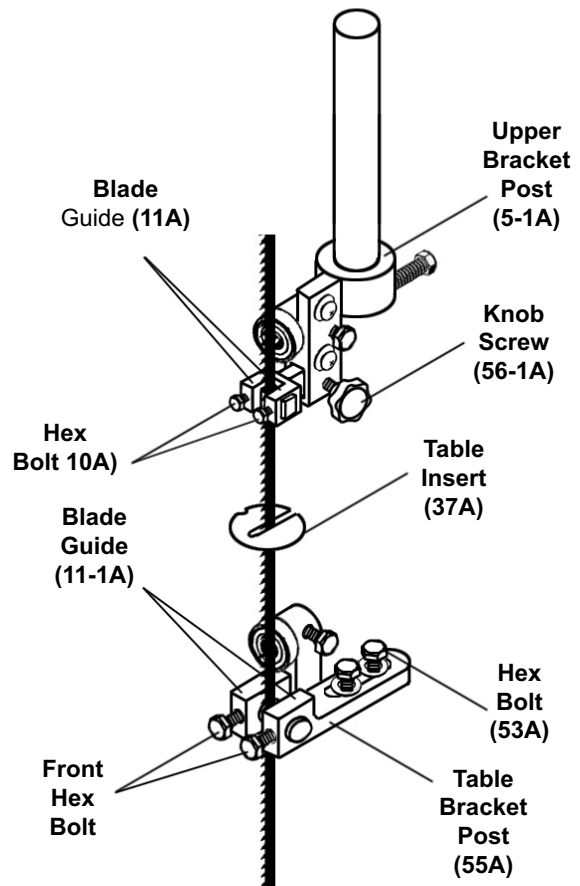


Figure 28

Blade Guide Adjustment

1. Loosen the Knob (6A) and set the Bracket Post (5-1A) as close as possible to the top surface of the material being cut. See Figure 29.
2. Once the Bracket Post is adjusted, securely tighten the Knob (6A).

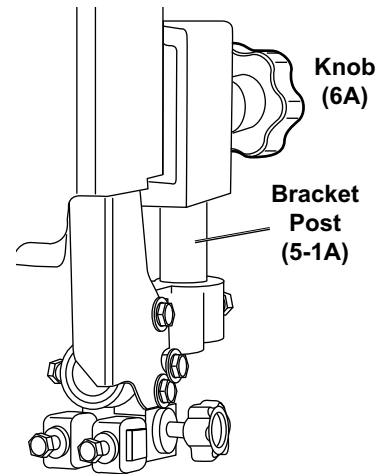


Figure 29

Table Angle Adjustment

1. Loosen the two Angle Knobs (46A) underneath the Table (39A). See Figure 30.
2. Tilt the Table to the left or right until the needle points are set to the desired angle on the Scale (51A). Once properly adjusted, securely tighten both Angle Knobs (46A).

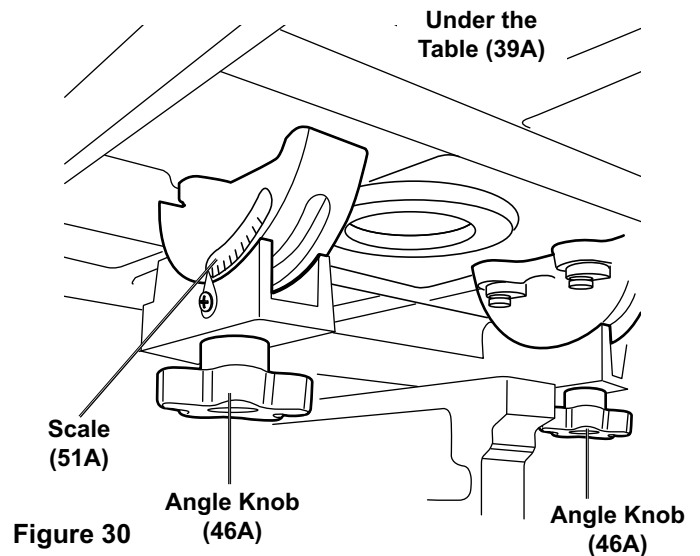


Figure 30

Blade Speed Adjustment

1. Remove the Side Panel and open the Pulley Box to allow access.
2. Use the **Belt Installation** instructions on page 13 to change the Belt's position to the desired speed setting.
3. Replace the Side Panel and close the Pulley Box after changing the speed setting.

Work Piece and Area Setup

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. 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.
3. Secure loose work pieces using a vise or clamps (not included) to prevent movement while working.
4. There must not be objects, such as utility lines, nearby that will present a hazard while working.
5. Keep ANSI-approved safety goggles and work gloves nearby.

General Operating Instructions

1. Before starting the Bandsaw make sure all adjustments are properly made, and all of the guards and covers are in place.
2. Make sure you know how to turn the Bandsaw off before powering on. To turn the Bandsaw off, push the Power Switch down
3. **Before turning on the power**, make sure that nothing is obstructing the Saw Blade (36).
4. Keep the Bracket Post (5-1A) down, as close as possible to the material being cut.
5. To **turn on** the Bandsaw, insert the Key, then pull the Switch up, see Figure 31.
6. To **turn off** the Bandsaw, push the Key down and remove it, see Figure 32.



WARNING! TO PREVENT SERIOUS INJURY AND AMPUTATION: Keep hands out of cut line of blade at all times.



CAUTION! Wear ANSI-approved safety goggles.

7. Allow the Bandsaw to reach its full speed before cutting the material.
8. **Do not force the material into the Saw Blade (36).** Light contact with the Saw Blade will permit easier following of the line and prevent undue friction, heating and work-hardening of the Saw Blade at its back edge.
9. Keep the Saw Blade sharp for easier forward pressure when cutting.
10. Move the material slowly and steadily against the Saw Blade.
11. Avoid twisting the Saw Blade when attempting to turn sharp corners. Remember to slowly cut around the outside of corners.
12. When cutting curves, turn the material carefully so that the Saw Blade can follow the line without being twisted.
13. If a curve is so abrupt that it is necessary to repeatedly back up and cut a new kerf, a more narrow Saw Blade should be used.

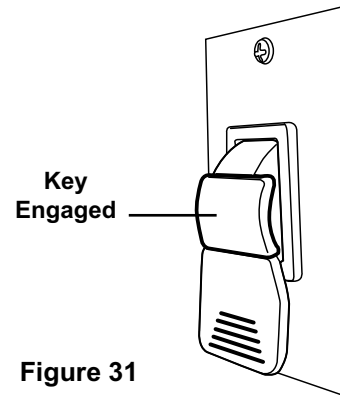


Figure 31

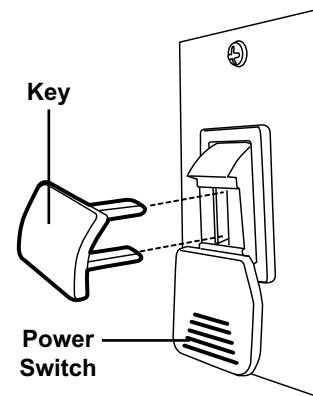


Figure 32

14. After use, turn off Bandsaw, remove Switch Key, unplug the power cord and allow the Bandsaw to cool.

Note: After every use, clean away all particles that have accumulated around the Bandsaw.

CAUTION! TO PREVENT FIRE:

Do not allow sawdust to accumulate inside the Bandsaw. After every use, when the Bandsaw is off and cool, clean out the sawdust:

- a. Wear heavy-duty gloves, ANSI-approved safety goggles and NIOSH-approved dust mask/respirator.
- b. Open the Lower Wheel Guard (69A).
- c. Clean the sawdust out with a brush or vacuum.
- d. Close the Lower Wheel Guard.

Note: A dust collector may reduce the need for cleaning the Bandsaw interior if used.

Maintenance and Servicing



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 to its “OFF” position and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

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 or parts,
 - misalignment or binding of moving parts,
 - cracked or broken parts,
 - damaged electrical wiring, and
 - any other condition that may affect its safe operation.
2. **DO NOT INTRODUCE WATER INTO THE ELECTRIC MOTOR THROUGH THE MOTOR VENTS.**
3. **Do not use solvents to wipe off the Bandsaw, as damage may result.**
4. With a brush or soft cloth, remove all the sawdust from within the Lower Wheel Guard of the Bandsaw.
5. If necessary, wipe with a damp cloth. A mild detergent can also be used.
6. Once clean, lubricate all moving parts with a light oil.
7. **⚠ WARNING! TO PREVENT SERIOUS INJURY: If the supply cord of this tool is damaged, it must be replaced only by a qualified service technician.**
8. Store the Bandsaw covered with a cloth cover.

Troubleshooting

Problem	Possible Causes	Probable Solutions
Bandsaw will not start.	1. No power at outlet. 2. Loose, or damaged electrical connections or wiring.	1. Check power at outlet and at circuit breakers. 2. Check all wiring and connections. Tighten all connections. If damaged wiring is found, replace it. DO NOT repair damaged wiring.
Bandsaw blade does not move although motor is running.	1. Blade tension knob is not tight. 2. Blade has slipped off wheel or belt has slipped off pulley. 3. Blade/belt is broken.	1. Turn motor off. Adjust tension and restart Bandsaw. 2. With Bandsaw off, open Pulley Box and check. 3. Replace blade/belt.
Cuts are not straight	1. Work not square with Table. 2. Dull Blade. 3. Blade Guide Assembly loose.	1. Use Miter Gauge; check table angle (page 18) and adjust tilt of head at 90°. 2. Replace Blade. 3. Tighten Blade Guide.
Blade will not cut or cuts slowly.	1. Teeth have been dulled by contact with hardened steel or long usage. 2. Speed setting too low. 3. Blade mounted on backwards.	1. Replace blade. 2. Use higher speed setting. See Belt Installation, page 13. 3. Remove blade and mount correctly.
Blade dulling too rapidly.	1. Blade is too coarse. 2. Hard spots on material. 3. Blade installed backwards.	1. Use a finer tooth Blade. 2. Increase pressure more gently on object being cut. 3. Remove Blade and turn inside out before reinstalling.
Motor running too hot.	1. Blade too coarse or too fine for workpiece. 2. Excessive dirt, chips and sawdust have accumulated around Wheels and/or Saw Blade.	1. Use Blade with correct pitch. 2. Clean the Bandsaw thoroughly.
Frequent Saw Blade Breakage.	1. Blade is too coarse for workpiece being cut. 2. Guides/Guards are misaligned. 3. Possible Blade Weld Cracking.	1. Use a Saw Blade with a finer pitch. 2. Adjust the Guides/Guards as noted on pages 16-18 of this manual. 3. Replace the Saw Blade.
Workpiece cuts appear rough.	1. Workpiece being fed into Saw Blade too fast. 2. Blade is too coarse for material being cut.	1. Slow down the speed at which you are feeding material through the blade. 2. Replace the blade and use one with a finer pitch.

SAFETY

SETUP

OPERATION

MAINTENANCE

Bandsaw Stand Parts List

SAFETY

SETUP

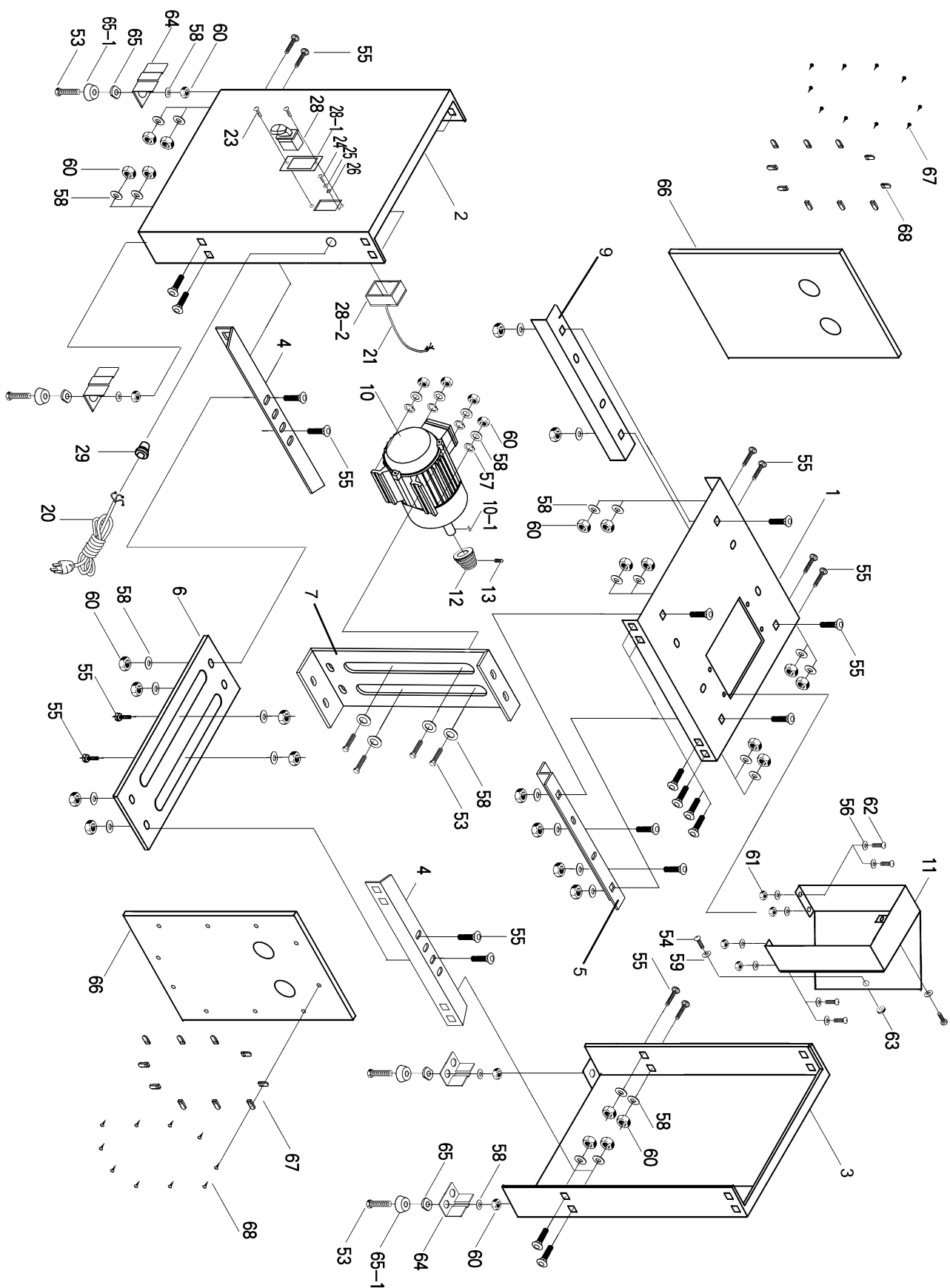
OPERATION

MAINTENANCE

Part	Description	Qty
1	Face Plate	1
2	Front Stand Leg	1
3	Rear Stand Leg	1
4	Supporting Plate	2
5	Connecting Plate	1
6	Base Plate	1
7	Motor Plate	1
9	Inner Plate	1
10	Motor	1
10-1	Key	1
11	Pulley Box	1
12	Motor Pulley	1
13	Set Screw	1
20	Power Cord	1
21	Wire	1
23	Screw	2
24	Grounding Label screw	1
25	Washer	2
26	Lock Washer	1
27	Nut	1

Part	Description	Qty
28	Switch	1
28-1	Switch Plate	1
28-2	Switch Box	1
29	Bushing	1
53	Hex Bolt	8
54	Hex Bolt	2
55	Carriage Bolt	28
56	Flat Washer	9
57	Spring Washer	4
58	Flat Washer	40
60	Nut	36
62	Screw	5
63	Knob	1
64	Fixed Plate	4
65	Pad	4
65-1	Feet	4
66	Side Panel	2
67	Press Block	20
68	Screw	20

Bandsaw Stand Assembly Diagram



Bandsaw Parts List

SAFETY

SETUP

OPERATION

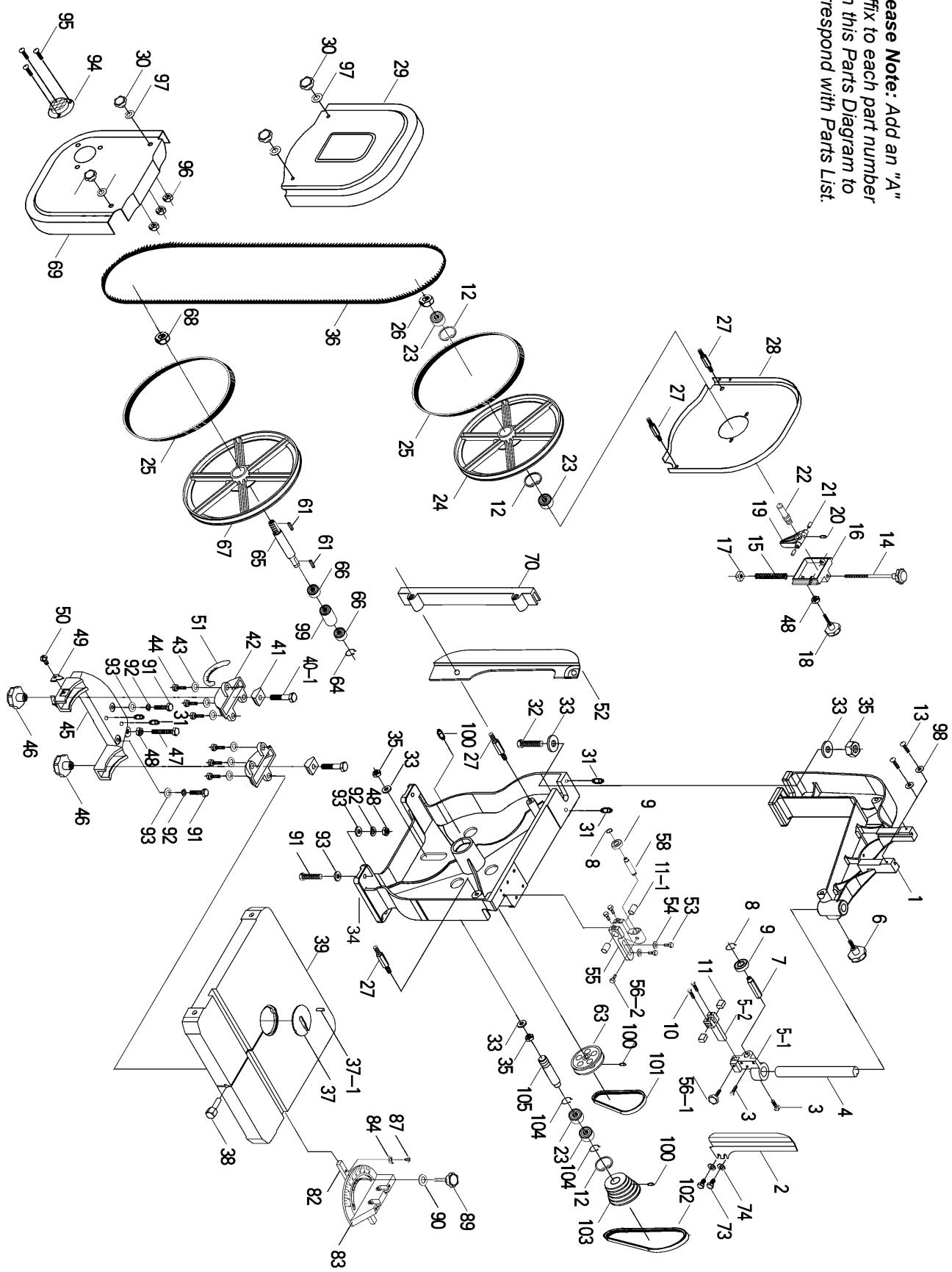
MAINTENANCE

Part	Description	Qty
1A	Frame arm	1
2A	Blade guard	1
3A	Hex bolt	2
4A	Guide post	1
5-1A	Bracket post	1
5-2A	Guide bracket	1
6A	Knob	1
7A	Spacing sleeve	1
8A	Retaining ring	3
9A	Bearing (6200zz)	2
10A	Hex bolt	4
11A	Blade guide	2
11-1A	Blade guide	2
12A	Retaining ring	3
13A	Screw	2
14A	Blade adjusting knob	1
15A	Coil spring	1
16A	Wheel bracket	1
17A	Square nut	1
18A	Blade tracking knob	1
19A	Wheel shaft hinge	1
20A	Spring pin	1
21A	Steel pin	2
22A	Wheel shaft	1
23A	Bearing (6202z)	4
24A	Upper wheel	1
25A	Wheel protector	2
26A	Nut	1
27A	Stud	4
28A	Inner wheel guard	1
29A	Upper wheel guard	1
30A	Knob nut	4
31A	Spring pin	4
32A	Hex bolt	1
33A	Flat washer	4
34A	Base	1
35A	Nut	3
36A	Saw blade	1
37A	Table insert	1
37-1A	Spring pin	1
38A	Table pin	1
39A	Table	1
40-1A	Bolt	2
41A	Trunnion clamp	2
42A	Trunnion	2
43A	Flat washer	6
44A	Hex Bolt	6

Part	Description	Qty
45A	Table bracket	1
46A	Angle Knob	2
47A	Hex bolt	1
48A	Nut	6
49A	Pointer rod	1
50A	Screw	1
51A	Scale	1
52A	Side cover	1
53A	Hex Bolt	2
54A	Flat washer	2
55A	Bracket post	1
56-1A	Knob screw	1
56-2A	Knob screw	1
58A	Blade guide	1
61A	Key	2
63A	Top Pulley	1
64A	Retaining ring	1
65A	Lower wheel shaft	1
66A	Bearing (6204z)	2
67A	Lower wheel	1
68A	Nut	1
69A	Lower wheel guard	1
70A	Blade guard	1
73A	Hex bolt	2
74A	Flat washer	2
82A	Scale	1
83A	Guide plate	1
84A	Pointer	1
87A	Screw	1
89A	Knob	1
90A	Flat washer	1
91A	Hex bolt	6
92A	Spring washer	6
93A	Flat washer	10
94A	Dust port	1
95A	Screw	3
96A	Nut	3
97A	Flat washer	4
98A	Flat washer	2
99A	Bushing	1
100A	Set Screw	2
101A	Belt	1
102A	Belt	1
103A	Saw pulley	1
104A	Retaining ring	2
105A	Shaft	1

Bandsaw Assembly Diagram

Please Note: Add an "A" suffix to each part number on this Parts Diagram to correspond with Parts List.



PLEASE READ THE FOLLOWING CAREFULLY

SAFETY

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.

SETUP

OPERATION

MAINTENANCE

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 792363605649 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.





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