

# STARIK®

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## 5 SPEED DRILL PRESS WITH LASER

ITEM: 53501



## OWNER'S MANUAL AND SAFETY INSTRUCTIONS

SAVE THIS MANUAL: KEEP THIS MANUAL FOR SAFETY WARNINGS, PRECAUTIONS, ASSEMBLY, OPERATING, INSPECTION, MAINTENANCE AND CLEANING PROCEDURES. WRITE THE PRODUCT'S SERIAL NUMBER ON THE BACK OF THE MANUAL NEAR THE ASSEMBLY DIAGRAM (OR MONTH AND YEAR OF PURCHASE IF PRODUCT HAS NO NUMBER).

FOR QUESTIONS PLEASE CALL OUR CUSTOMER SUPPORT: (909) 628 4900 MON-FRI 9AM TO 3PM PST



## GENERAL SAFETY WARNINGS

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.

## SAFETY

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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. Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

- **DO NOT** allow persons to operate or assemble the product until they have read this manual and have developed a thorough understanding of how it works.
- **DO NOT modify this product in any way.** Unauthorized modification may impair the function and/or safety and could affect the life of the product. There are specific applications for which the product was designed.
- **Use the right tool for the job. DO NOT** attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. This product will be safer and do a better job at the capacity for which it was intended. **DO NOT** use this equipment for a purpose for which it was not intended.
- **Inspect the work area before each use.** Keep work area clean, dry, free of clutter, and well-lit. Cluttered, wet, or dark work areas can result in injury.
- **Keep children and bystanders away from the work area while operating this product. DO NOT** allow children to handle the product.
- Stay alert, watch what you are doing, and use common sense when operating the tool. **DO NOT** use the tool while you are tired or under the influence of drugs, alcohol, or medication.
- **Check for damaged parts before each use.** Carefully check that the product will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the product with a damaged part.
- **Wear the proper personal protective equipment when necessary.** Use ANSI Z87.1 compliant safety goggles (not safety glasses) with side shields. Leather leggings, fire resistant shoes or boots should be worn when using this product. This applies to all persons in the work area. Keep clothing free of grease, oil, solvents, or any flammable substances. Wear dry, insulating gloves and protective clothing.
- **ALWAYS** keep guards in position, in good working order, correctly adjusted and aligned. Never attempt to use a power tool without any guard supplied with it.
- **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.

# IMPORTANT SAFETY INFORMATION

- **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 1 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.
- **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- **DISCONNECT TOOLS** before servicing: when changing accessories, such as blades, bits, cutters, and the like.
- **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in off position before plugging in.
- **USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
- **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
- **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.

## SAFETY INSTRUCTION FOR DRILL PRESS

### When Installing or Moving The Drill Press

To reduce the risk of injury from unexpected drill press movement. If there is any tendency of the drill press to tilt or move during any use, bolt it to the floor. Make sure and leave adequate room to fully open the belt guard. If the workpiece is too large to easily support with one hand, provide an auxiliary support.

- To reduce the risk of injury from electrical shock, make sure your fingers do not touch the plug's metal prongs when plugging in or unplugging the drill press.
- **NEVER Stand On Tool.** Serious injury could occur if the tool tips or you accidentally hit the cutting tool. Do not store anything above or near the tool where anyone might stand on the tool to reach them.

### Before Each Use

- To reduce the risk of injury from accidental starting, turn the switch off, unplug the drill press, and remove the switch key before raising the guard, changing the cutting tool, changing the setup, or adjusting anything. Make sure switch is in OFF position before plugging in.
- Check for alignment of moving parts, binding of moving parts, breakage of parts, drill press stability, and any other conditions that may affect the way the drill press works.
- If any part is missing, bent or broken in any way, or any electrical part does not work properly, turn the drill press off and unplug the drill press.
- Replace damaged or missing parts before using the drill press again
- Remove adjusting keys and wrenches. Form a habit of checking for and removing keys and adjusting wrenches from table top before turning drill press on.
- Make sure all clamps and locks are tight and no parts have excessive play.

# IMPORTANT SAFETY INFORMATION

## Use Only Accessories Designed For This Drill Press To Reduce The Risk of Serious Injury From Thrown Broken Parts Or Work Pieces

- **When cutting large diameter holes:**
  - Clamp the workpiece firmly to the table. Otherwise the cutting may grab and spin it at high speed.
  - Use only one piece, cup-type, hole cutters.
  - **DO NOT** use fly cutters or multi-part hole cutters as they can come apart or become unbalance in use.
  - Keep speed below 1500rpm.
- Drum sanders must never be operated on this drill press at a speed greater than 1800rpm.
- **DO NOT** install or use any drill that exceed 7" in length or extends 6" below the chuck jaws. They can suddenly bend outward or break.
- **DO NOT** use wire wheels, router bits, shaper cutters, circle (fly) cutters or rotary planers on this drill

### Kickback

- Kickback is the grabbing of the workpiece by the rotating tool. The workpiece can be thrown at a very high speed in the direction of rotation. This Can Cause Serious Injury. To reduce the possibility of injury from kickback:
  - Clamp the workpiece firmly to the table whenever possible.
  - Buffing or sanding wheels or drums should be contacted on the side moving away from you, not the side moving toward you.
  - Use only recommended accessories and follow the instructions supplied with the accessory.

### This drill press has 5 speeds

780RPM	1150RPM	1630RPM	2180RPM	3070RPM
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- See inside of guard for specific placement of belt on pulleys

- If any part of your drill press is missing, malfunctioning, has been damaged or broken...such as the motor switch, or other operating control, a safety device or the power cord, turn the drill press off and unplug it until the particular part is properly repaired or replaced.
- **NEVER** place your fingers in a position where they could contact the drill or other cutting tool if the workpiece should unexpectedly shift or your hand should slip.
- To reduce the risk of injury from parts thrown by the spring, follow instructions exactly as given and shown in adjusting spring tension of quill.
- Turn the motor switch off and put away the switch key when leaving the drill press.
- To reduce the risk of injury from thrown work or tool contact, do not perform layout, assembly or setup work on the table while the cutting tool is rotating.
- Any power tool can throw foreign objects into the eyes. This can result in permanent eye damage. Everyday eyeglasses have only impact resistant lenses. They art not safety glasses.
- **WARNING:** Don't allow familiarity (gained from frequent use of your drill press) to cause a careless mistake. Always remember that a careless fraction of a second is enough to cause a severe injury.
- Noise levels vary widely. To reduce the risk of possible hearing damage, wear ear plugs or muffs when using drill press for hours at a time.

# IMPORTANT SAFETY INFORMATION

○ To prevent the workpiece from being torn from your hands, spinning of the tool, shattering the tool or being thrown, always properly support your work so it won't shift or bind on the tool:

- **ALWAYS** position backup material (use beneath the workpiece) to contact the left side of the column.
- Whenever possible, position the workpiece to contact the left side of the column – If it is too short to the table. Use table slots or clamping ledge around the outside edge of the table.
- When using a drill press vise, always fasten it to a table.
- **NEVER** do any work “Freehand” (hand holding workpiece rather than supporting it on the table), except when polishing.
- Securely lock head to column, table support to column and table to table support before operating drill press.
- **NEVER** move the head or table while the tool is running.
- Before starting the operation, jog the motor switch to make sure the drill or other cutting tool does not wobble or cause vibration.

## Before Leaving The Drill Press

- Turn the drill press off.
- Wait for tool bit to stop spinning.
- Unplug the drill press.
- Make workshop child-proof. Lock the shop. Disconnect master switches. Remove the yellow switch key. Store it away from children and others not qualified to use the tool.

## Electrical Requirements

General Electrical Connections

**DANGER:** To reduce the risk of electrocution:

1. Use only identical replacement parts when servicing. Servicing should be performed by a qualified service technician.
2. **DO NOT** use in rain or where floor is wet. This tool is intended for indoor residential use only.

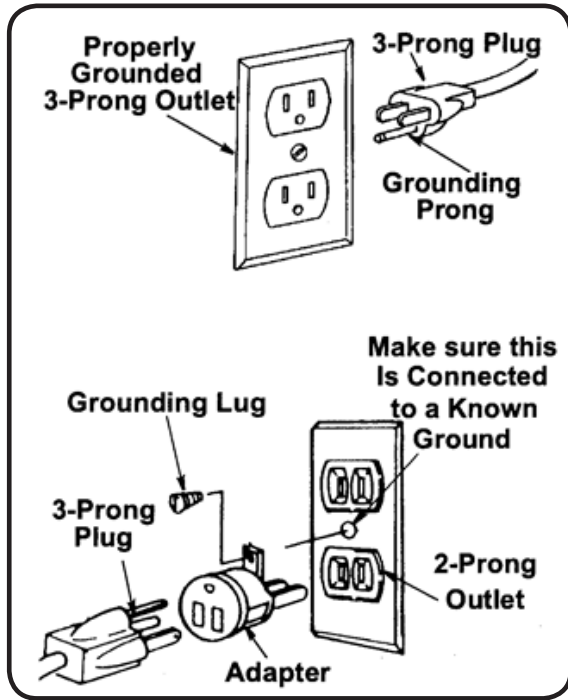
**WARNING: DO NOT** permit fingers to touch the terminals of plug when installing or removing the plug to or from the outlet.

## 110-120 Volt, 60Hz. Tool Information

**NOTE:** The plug supplied on your tool may not fit into the outlet you are planning to use. Your local electrical code may require slightly different power cord plug connections. If these differences exist refer to and make the proper adjustments per your local code before your tool is plugged in and turned on. 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, as shown. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician. A temporary adapter may be used to connect this plug to a 2-prong outlet, as shown, if a properly grounded three prong outlet is not available. This temporary adapter should be used only until properly grounded three prong outlet can be installed by a qualified electrician. The green colored rigid ear, lug and the like, extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

**WARNING: If not properly grounded, this tool can cause an electrical shock, particularly when used in damp locations, in proximity to plumbing, or out of doors. If an electrical shock occurs there is the potential of a secondary hazard, such as your hands to hit the cutting tool.**

# ELECTRICAL SAFETY INFORMATION



**NOTE:** The adapter illustrated is for use only if you already have a properly grounded 2-prong outlet.

**NOTE:** In Canada the use of a temporary adapter is not permitted by the Canadian Electrical Code

## WIRE SIZES

**NOTE:** Make sure the proper extension cord is used and is in good condition. The use of any extension cord will cause some loss of power. To keep this to a minimum and to prevent overheating and motor burnout, use the table as below to determine the minimum wire size (A.W.G.) extension cord. Use only 3-wire extension cords which have 3-prong grounding type plugs.

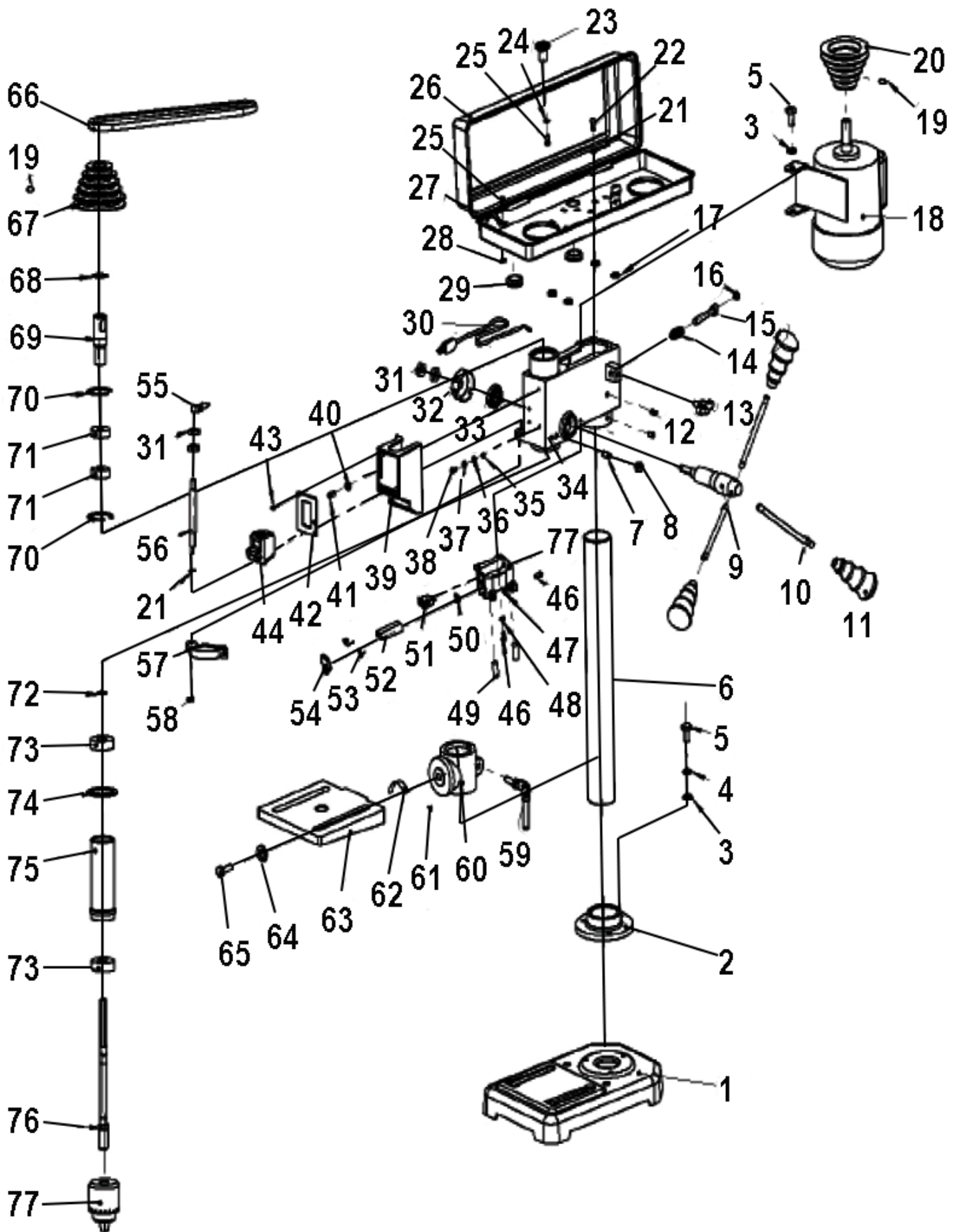
**CAUTION: USE ONLY THREE-WIRE EXTENSION CORDS** that have 3-pronged plugs and outlets that accept the tool's plug. Repair or replace a damaged or worn cord immediately.

**Minimum Gauge for Extension Cords (AWG)**  
(When using 120 V only)

Ampere Rating		Total Length of Cord in feet			
More Than	Not More Than	25	50	100	150
0	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Recommended	

CHUCK CAPACITY	1/2"
SPINDLE TAPER	B16
SPINDLE TRAVEL	2"
SWING	8"
NUMBER OF SPEEDS	5
SPINDLE SPEED (RPM)	5 (760, 1150, 1630, 2180, 3070 RPM)
TABLE SIZE	6-1/4" X 6-1/4"
WEIGHT	26.4
TABLE TILT	0-45 DEGREES L/R
SIZE OF BASE	11-1/2" x 7-1/2"
OVERALL HEIGHT	22.8"
MOTOR	120V ~ 60Hz 2.4A 1/3HP

# PARTS DIAGRAM



# PARTS LIST

Item	Stock #	Description
1	PS308-001	Base
2	PS308-002	Column support
3	PS308-003	Flat washer 8
4	PS308-004	Spring washer 8
5	PS308-005	Bolt M8×20
6	PS308-006	Column
7	PS308-007	Screw
8	PS308-008	Nut M8
9	PS308-009	Axis
10	PS308-010	Handle bar
11	PS308-011	Handle knob
12	PS308-012	Screw M8×10
13	PS308-013	Fasten knob
14	PS308-014	Compression spring
15	PS308-015	Shaft for motor
16	PS308-016	Shock pad
17	PS308-017	Rubber pad
18	PS308-018	Motor
19	PS308-019	Screw M6×10
20	PS308-020	Motor pulley
21	PS308-021	Flat washer 6
22	PS308-022	Screw M6×10
23	PS308-023	Knob
24	PS308-024	Flat washer 5
25	PS308-025	Screw M5×8
26	PS308-026	Pulley cover
27	PS308-027	Clamping
28	PS308-028	Nut M5
29	PS308-029	Protective ring
30	PS308-030	Plug and cord
31	PS308-031	Nut M10×1
32	PS308-032	Coil spring cover
33	PS308-033	Coil spring
34	PS308-034	Body
35	PS308-035	Dental pad 4
36	PS308-036	Grounding connection
37	PS308-037	Spring washer 4
38	PS308-038	Screw M4×6
39	PS308-039	Switch box

Item	Stock #	Description
40	PS308-040	Flat washer 4
41	PS308-041	Screw M4×10
42	PS308-042	Switch panel
43	PS308-043	Tapping screw ST3.5×10
44	PS308-044	Switch
45	PS308-045	Box for laser
46	PS308-046	Screw M4×8
47	PS308-047	Nut M4
48	PS308-048	Flat washer 4
49	PS308-049	Laser assembly
50	PS308-050	Spring A
51	PS308-051	Switch for laser
52	PS308-052	Battery 7#
53	PS308-053	Spring B
54	PS308-054	Cover for laser
55	PS308-055	Pointer
56	PS308-056	Limited bolt
57	PS308-057	Scale seat
58	PS308-058	Nut M6
59	PS308-059	Crank
60	PS308-060	Work table support
61	PS308-061	Rivet 2×3
62	PS308-062	Angle label
63	PS308-063	Work table
64	PS308-064	Spring washer 12
65	PS308-065	Bolt M12×25
66	PS308-066	V-belt K-660
67	PS308-067	Spindle pulley
68	PS308-068	Retainer ring 22
69	PS308-069	Square axle sleeve
70	PS308-070	Retainer ring 40
71	PS308-071	Bearing 6201
72	PS308-072	Retainer ring 12
73	PS308-073	Bearing 6203
74	PS308-074	Buffer ring
75	PS308-075	Spindle sleeve
76	PS308-076	Spindle
77	PS308-077	Chuck



# ASSEMBLY

## TOOLS NEEDED FOR ASSEMBLY

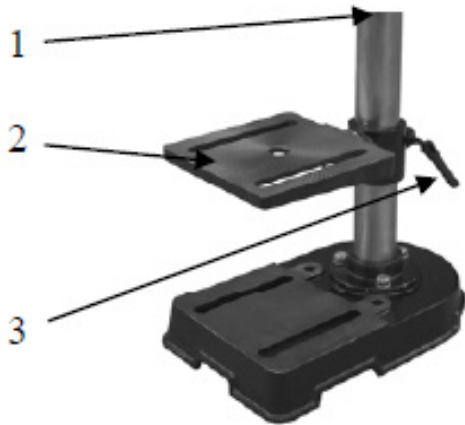
Adjustable Wrench, hammer, block of wood, screwdriver

- BASE** **TO** **COLUMN**
1. Place Column (1) on the Base (2) and align holes in the Column with the holes in the base. **2.** Attach using a Bolt, Spring Washer, and Washer (2) in each hole through the Column and into the Base.



## TABLE TO COLUMN

1. Loosen the Pivot Lever (3) on the table (2) **2.** Slide the Table (2) over the Column (1). **3.** Tighten the Pivot Lever (3) to secure the Table (2) in place.



## DRILL PRESS HEAD TO COLUMN

1. Lift the drill press head assembly (1) carefully and place the mounting hole of the drill press head onto the top of the column (3). Make sure the head is seated properly on the column. **2.** Align the direction of the drill press head to the direction of the base and table. **3.** Tighten the set screws (2) using the wrench. **4.** Thread the three feed handle rods (4) into the holes on the feed hub. **5.** Hand tighten.

**NOTE:** One or two of the feed handles may be removed if an unusually shaped workpiece interferes with handle rotation.

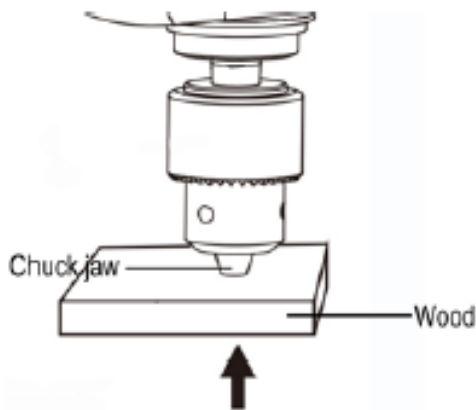


# ASSEMBLY

## INSTALL THE CHUCK

**1.** Inspect and clean the taper hole in the chuck and the spindle. Remove all grease, coatings and particles from the chuck and spindle surfaces with a clean cloth. **2.** Open the chuck jaws by turning the chuck barrel clockwise by hand. Make sure the jaws are completely recessed inside the chuck. **3.** Seat the chuck on the spindle by placing a block of wood under the chuck by tapping the wood with a hammer or tap the chuck with a rubber mallet.

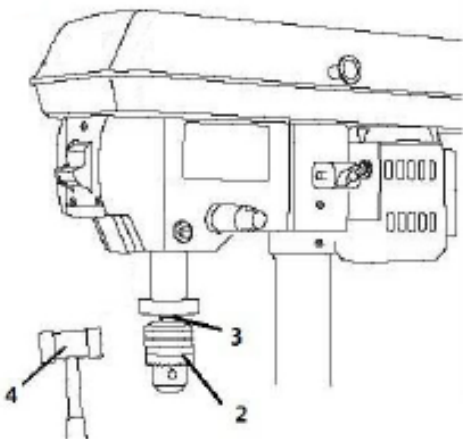
**CAUTION:** To avoid damaging the chuck, make sure the jaws are completely recessed into the chuck. **DO NOT** use a metal hammer directly to drive the chuck into the spindle.



## REMOVE THE CHUCK AT A LATER TIME

**1.** Turn the feed handles to lower the chuck (2) to the lowest position. **2.** Place a ball joint separator tool (not included) above the chuck (3) and tap it lightly with a hammer (4) to cause the chuck to drop from the spindle.

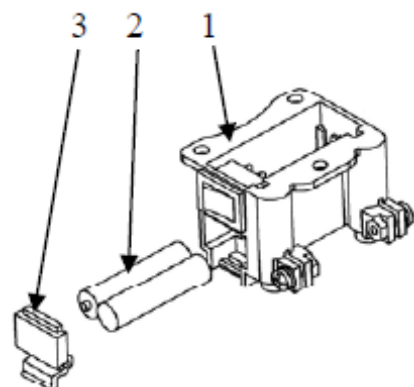
**NOTE:** To avoid possible damage, be prepared to catch the chuck as it falls.



## BATTERY ASSEMBLY

**1.** Take off the battery cover (3) and insert two AAA batteries into the laser box (1). Make sure the anode + and cathode - of the battery is in accordance with the marks on the battery cover. **2.** Put the battery cover (3) into the laser box (1). **3.** Seat the chuck on the spindle by placing a block of wood under the chuck by tapping the wood with a hammer or tap the chuck with a rubber mallet.

**NOTE:** The laser box is assembled at the factory and is preset for best function.

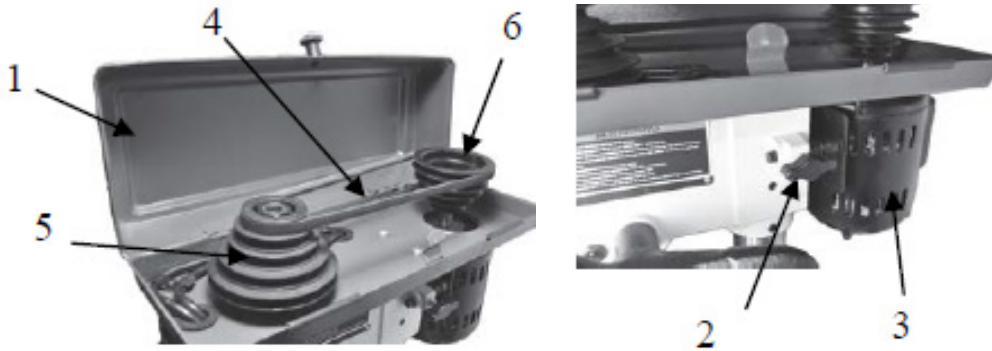


# ASSEMBLY and ADJUSTMENTS

## INSTALL THE BELT

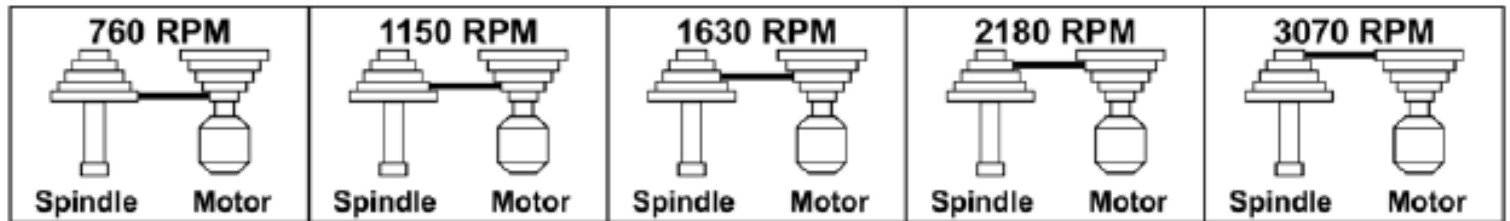
**1.** Open the pulley and belt cover (1). **2.** Loosen the belt tension lock knob (2). **3.** Slide the motor (3) as close to the drill press head as possible. **4.** Place a belt (4) on the motor pulley (5) and the spindle pulley (6) in the proper position for the desired speed. **5.** Pull the motor away from the drill press head until the belt is properly tensioned. Tighten the belt tension lock knobs.

**NOTE:** The belt (4) should be tight enough to prevent slippage. Correct tension is set if the belt flexes about 1/2" when thumb pressure is applied at the midpoint of the belt between the pulleys.



## SPINDLE SPEED ADJUSTMENTS

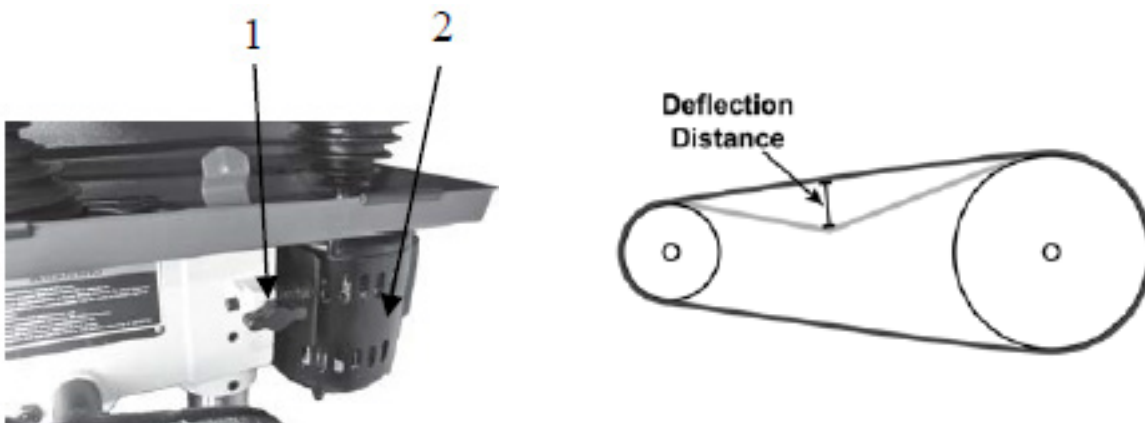
This drill press offers 5 spindle speeds from 760 to 3070RPM. The highest speed is obtained when the belt is positioned on the largest motor pulley step and the smallest spindle pulley stop.



**WARNING:** Disconnect the drill press from the power source before making any speed adjustments.

## ADJUST SPEEDS AND TENSION THE BELT

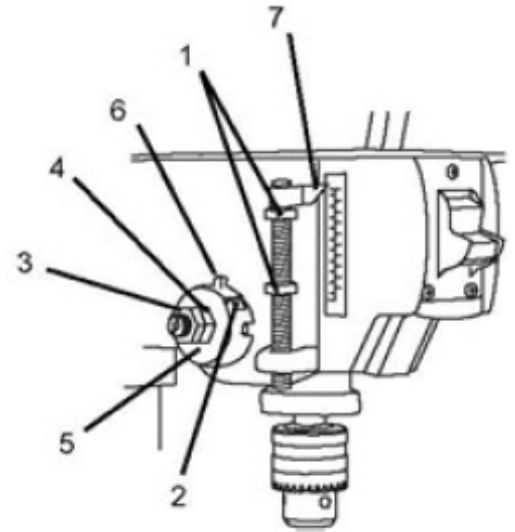
**1.** Open the drill press pulley cover. **2.** Loosen the belt tension knob (1). **3.** Pull the motor (2) toward the drill press head. **4.** Set the belt on the desired steps of the motor and spindle pulleys according to the belt positions on the spindle speed chart. **5.** Pull the motor away from the drill press head to increase the belt tension. Tighten the tension knobs (1). **6.** The belt should be tight enough to prevent slippage. Correct tension is set if the deflection distance about 1/2" when thumb pressure is applied at the midpoint of the belt between the pulleys.



# OPERATION and MAINTENANCE

## COIL SPRING ADJUSTMENT

**1.** Raise the spindle to the top position. **2.** Move both depth scale nuts (1) to the lowest position and tighten to prevent the quill from dropping down. **3.** Place the screwdriver in the notch (2) of the spring housing. **4.** Firmly hold the screwdriver in place to prevent the spring and housing from moving. **5.** Loosen and remove the outer jam nut (3). **6.** Loosen but **DO NOT** remove the inner nut (4). **7.** Pull out but **DO NOT** remove the housing (5) from the raised lug (6) on the drill press head. **8.** With the screwdriver in the notch, carefully turn the spring housing 95° counter-clockwise until the next notch engages with the raised lug. **9.** Release the housing and tighten the inner nut (4). **DO NOT** remove the screwdriver. **10. Check the Quill tension** • Move the two stop nuts (1) on the depth scale rod to the top position. • Turn the feed handles and release, raising the depth pointer (7) to the top position. If there is not enough tension, repeat steps 6-9, moving the spring housing one more notch. If there is too much tension, move the housing one notch at a time in the opposite direction. **11. If the quill returns gently to the top position (correct operation):** • Tighten the inner nut (4), **DO NOT** over tighten. • Replace the jam nut (3). Tighten against the inner nut. • Remove the screwdriver. • Rotate the feed handles and check the quill for unrestricted movement. **12. If the quill movement is too restricted or tight:** • Loosen the jam nut (3). • Slightly loosen the housing inner nut (4). • Tighten the jam nut. • Check the quill movement again and repeat steps 1-3 until the quill moves freely.



**NOTE:** This adjustment is set at the factory and should not need changing. Readjustments may eventually be necessary due to normal wear and tear.

## MAINTENANCE

**WARNING:** Turn the power switch OFF and disconnect the plug from the outlet prior to adjusting or maintaining the machine. **DO NOT** attempt to repair or maintain the electrical components of the motor.

To avoid build up of wood dust, regularly clean all parts of the machine using a soft cloth, brush or compressed air. A general cleaning should be done after every use to avoid future problems and ensure the machine is in ready condition for the next time it is used.

Keep the table, column and base free of resin and rust. Clean them regularly with a non-flammable solvent, then coat with a light film of dry lubricant spray or wax, to keep surfaces clean. **DO NOT** use ordinary oil which will collect dust and hamper the operation of the machine.

All of the ball bearings are lifetime lubricated, sealed and do not need any further care. Keep the drive belts free of oil and grease.

Check the belt tension after the first 3-5 hours of operation to ensure that the belts have not become stretched and loose from their breaking in use.

# TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
<b>Tool will not start</b>	<ol style="list-style-type: none"> <li>1. Cord is not connected</li> <li>2. No power at outlet</li> <li>3. Internal damage or wear</li> </ol>	<ol style="list-style-type: none"> <li>1. Make sure the cord is plugged in</li> <li>2. Check power at outlet, if unpowered, turn off the tool and check the circuit breaker. Make sure the breaker is on and at the right capacity.</li> <li>3. Have a technician service the tool.</li> </ol>
<b>Tool operates slowly</b>	Extension cord is too long or the wire size too small	Eliminate use of an extension cord. If an extension cord is needed, use a shorter/heavier gauge cord.
<b>Performance decreases over time</b>	Accessory is dull or damaged	Keep cutting accessories sharp. Replace as needed.
<b>Excessive noise or rattling</b>	<ol style="list-style-type: none"> <li>1. belt is too loose or too tight</li> <li>2. Spindle is dry</li> <li>3. Loose spindle pulley</li> <li>4. Loosing motor pulley</li> <li>5. Internal damage or wear</li> </ol>	<ol style="list-style-type: none"> <li>1. Properly tension the belt</li> <li>2. Lubricate the spindle</li> <li>3. Check the pulley out</li> <li>4. Tighten set screws</li> <li>5. Have a technician service the tool</li> </ol>
<b>Overheating</b>	<ol style="list-style-type: none"> <li>1. Forcing the machine to work too fast</li> <li>2. Accessory misaligned</li> <li>3. Accessory is dull or damaged</li> <li>4. Blocked motor housing vents</li> <li>5. Motor being strained by loll or small extension cord</li> </ol>	<ol style="list-style-type: none"> <li>1. Allow the machine to work at its own rate</li> <li>2. Check and correct the accessory to table alignment</li> <li>3. Keep cutting accessories sharp</li> <li>4. Blow out dust from the motor housing using compressed air</li> <li>5. Eliminate use of an extension cord.</li> </ol>
<b>Drill bit burns or smokes</b>	<ol style="list-style-type: none"> <li>1. Incorrect spindle speed</li> <li>2. Dull drill bit</li> <li>3. Drilling too slowly</li> <li>4. Lacking</li> </ol>	<ol style="list-style-type: none"> <li>1. Change spindle speed</li> <li>2. Replace with a new bit</li> <li>3. Drill faster</li> <li>4. Lubricate the cutting area</li> </ol>
	<ol style="list-style-type: none"> <li>1. Bent bit</li> <li>2. Worn spindle bearings</li> <li>3. Drill bit not in chuck correctly</li> <li>4. Chuck not properly installed</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace the drill bit</li> <li>2. Replace spindle bearings</li> <li>3. Reinstall drill bit</li> <li>4. Reinstall chuck and arbor assembly</li> </ol>
<b>Feed wheel returns slowly or too fast</b>	Tension spring not in adjustment	Adjust tension spring
<b>Drill bit binds</b>	<ol style="list-style-type: none"> <li>1. Workpiece pinching drill bit</li> <li>2. Dull drill bit</li> <li>3. Feed pressure too hard</li> <li>4. Belt loose</li> </ol>	<ol style="list-style-type: none"> <li>1. Reposition workpiece, lubricate drill</li> <li>2. Replace drill bit</li> <li>3. Pull feed handle slowly</li> <li>4. Adjust motor and spindle belt tension</li> </ol>

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