

Operator's Manual

CRAFTSMAN®

6 x 48" Oscillating Belt

12" Disc

SANDER

Model No.

351.226061

CAUTION: Read and follow
all Safety Rules and Operating
Instructions before First Use
of this Product.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.

17985.00 Draft (01/18/02)

SAFETY

ASSEMBLY

OPERATION

MAINTENANCE

PARTS LIST

ESPAÑOL

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WARRANTY

FULL ONE YEAR WARRANTY ON CRAFTSMAN BELT & DISC SANDER

If within one full year from the date of purchase, this Craftsman sander fails due to a defect in material or workmanship, Sears will repair it free of charge. Warranty service is available by contacting Sears in-home major brand repair service. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If this sander is used for commercial purposes, this warranty applies for only 90 days from the date of purchase.

Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179

SAFETY RULES

WARNING: For your own safety, read all of the instructions and precautions before operating tool.

CAUTION: Always follow proper operating procedures as defined in this manual even if you are familiar with use of this or similar tools. Remember that being careless for even a fraction of a second can result in severe personal injury.

BE PREPARED FOR JOB

- Wear proper apparel. Do not wear loose clothing, gloves, neckties, rings, bracelets or other jewelry which may get caught in moving parts of machine.
- Wear protective hair covering to contain long hair.
- Wear safety shoes with non-slip soles.
- Wear safety glasses complying with United States ANSI Z87.1. Everyday glasses have only impact resistant lenses. They are **NOT** safety glasses.
- Wear face mask or dust mask if operation is dusty.
- Be alert and think clearly. Never operate power tools when tired, intoxicated or when taking medications that cause drowsiness.

PREPARE WORK AREA FOR JOB

- Keep work area clean. Cluttered work areas invite accidents.
- Do not use power tools in dangerous environments. Do not use power tools in damp or wet locations. Do not expose power tools to rain.
- Work area should be properly lighted.

- Proper electrical receptacle should be available for tool. Three prong plug should be plugged directly into properly grounded, three-prong receptacle.
- Extension cords should have a grounding prong and the three wires of the extension cord should be of the correct gauge.
- Keep visitors at a safe distance from work area.
- Keep children out of workplace. Make workshop childproof. Use padlocks, master switches or remove switch keys to prevent any unintentional use of power tools.

TOOL SHOULD BE MAINTAINED

- Always unplug tool prior to inspection.
- Consult manual for specific maintaining and adjusting procedures.
- Keep tool lubricated and clean for safest operation.
- Remove adjusting tools. Form habit of checking to see that adjusting tools are removed before switching machine on.
- Keep all parts in working order. Check to determine that the guard or other parts will operate properly and perform their intended function.
- Check for damaged parts. Check for alignment of moving parts, binding, breakage, mounting and any other condition that may affect a tool's operation.
- A guard or other part that is damaged should be properly repaired or replaced. Do not perform makeshift repairs. (Use parts list provided to order replacement parts.)

KNOW HOW TO USE TOOL

- Use right tool for job. Do not force tool or attachment to do a job for which it was not designed.
- Disconnect tool when changing belt or abrasive disc.
- Avoid accidental start-up. Make sure that the tool is in the "OFF" position before plugging in.
- Do not force tool. It will work most efficiently at the rate for which it was designed.
- Keep hands away from moving parts and sanding surfaces.
- Never leave tool running unattended. Turn the power off and do not leave tool until it comes to a complete stop.
- Do not overreach. Keep proper footing and balance.
- Never stand on tool. Serious injury could occur if tool is tipped or if belt or disc are unintentionally contacted.
- Know your tool. Learn the tool's operation, application and specific limitations.
- Use recommended accessories (refer to page 11). Use of improper accessories may cause risk of injury to persons.
- Handle the workpiece correctly. Protect hands from possible injury.
- Turn machine off if it jams. Belt jams when it digs too deeply into workpiece. (Motor force keeps it stuck in the work.)
- Support workpiece with miter gauge, belt platen or work table.
- Maintain $\frac{1}{8}$ " maximum clearance between table and sanding belt or disc.

CAUTION: Think safety! Safety is a combination of operator common sense and alertness at all times when tool is being used.

WARNING: Do not attempt to operate tool until it is completely assembled according to the instructions.

UNPACKING

Refer to Figure 1.

Check for shipping damage. If damage has occurred, a claim must be filled with carrier. Check for completeness. Immediately report missing parts to dealer.

The sander comes assembled as one unit. Additional parts which need to be fastened to sander, should be located and accounted for before assembling.

- A Abrasive disc
- B Belt table with trunnion
- C Miter gauge assembly
- D Two handles
- E Workstop

Parts bag includes: 8mm flat washer, eight $\frac{5}{16}$ " flat washers, four $\frac{5}{16}$ "-18 hex nuts and four foot rests with bolts.

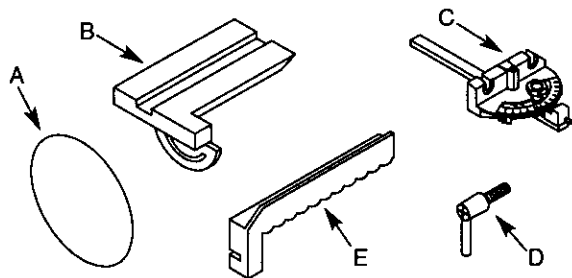


Figure 1 - Unpacking Sander

ASSEMBLY

CAUTION: Do not attempt assembly if parts are missing. Use this manual to order replacement parts.

Before sander is assembled, a suitable location should be chosen. The sander with cabinet weighs approximately 200 lbs when completely assembled. They should be assembled on location.

- Sander needs to be set on a flat, level surface.
- Make sure there is ample room for moving the workpiece through the entire cut. There must be enough room that neither the operator nor the bystanders will have to stand in line while using the tool.
- Good lighting and correct power supply are also required for a proper work area.

ADJUST BELT HOUSING TO VERTICAL POSITION

Refer to Figures 11 and 12, pages 10 and 12.

- Loosen one hex nut (Figure 11, Key No. 38) on the belt housing casting (Figure 11, Key No. 48). Do not take out hex nut.
- Move to the rear of the sander and gently lift the belt housing up supporting the housing from both sides.
- Lift belt housing until it is adjusted to the vertical position.
- Tighten one hex nut (Figure 11, Key No. 38) from the rear of the sander.
- Move to the front of the sander; loosen and remove three knobs (Figure 12, Key Nos. 7 and 27).
- Remove dust hood (Figure 12, Key No. 28).
- Tighten hex nut (Figure 11, Key No. 38).
- Replace dust hood and tighten knobs.

ATTACH FOOT RESTS

Refer to Figure 12.

Required parts and hardware:

- Four foot rests with bolts
- Eight $\frac{5}{16}$ " flat washers
- Four $\frac{5}{16}$ "-18 Hex nuts

CAUTION: Sander with cabinet weighs approximately 200 lbs. At least two people are required to attach foot rests.

- Carefully tip the sander to raise cabinet from the floor just enough so that one foot rest with bolt and washer (Key Nos. 3, 4 and 5) can be positioned under the cabinet corner so that the bolt slides through the hole on the cabinet base. Slowly set the sander back to the floor. Repeat three more times to position one foot rest with bolt, under each cabinet corner.
- Loosen knob (Key No. 7) and open cabinet door (Key No. 8).
- Using the cabinet door opening, secure foot rests to cabinet using four flat washers and four hex nuts (Key Nos. 2 and 3).
- Make sure all the hex nuts are tight.
- Close cabinet door and secure it with knob (Key No. 7).

ATTACH BELT TABLE

Refer to Figures 2 and 11.

Required parts and hardware:

- Belt table with trunnion
- Handle
- 8mm Flat washer
- Position belt table (Key No. 63) on the belt housing (Key No. 48) so that the trunnion (Key No. 18) travels on the slide (Key No. 20).
- Set the belt table position so that the 0° mark on the trunnion is aligned with the pointer (Key No. 54).
- Secure belt table position using the handle and flat washer (Key Nos. 10 and 16). Tighten handle into the threaded hole on the belt housing.

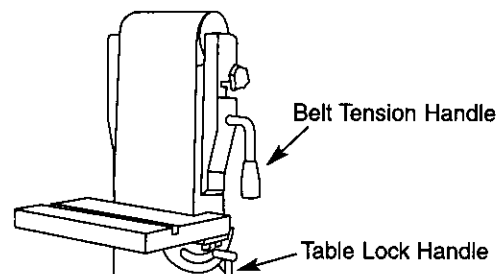


Figure 2 - Attach Belt Table

- Sander is shipped with the belt tension handle (Key No. 52) at the released position. Pull down the handle toward the belt table to tension the belt.
- Make sure that the clearance between the belt and belt table does not exceed $\frac{1}{16}$ ".
- Wear protective glove and manually push the belt to verify that belt travels smoothly and without interference.

POSITION DISC TABLE

Refer to Figure 11.

Required part: Handle

- Sander is shipped with the disc table (Key No. 24) attached to the disc guard (Key No. 11) using a handle with flat washer one side and a hex head bolt with flat washer on the other side.

- Loosen and remove hex head bolt and flat washer from the disc table.
- Replace hex head bolt with the handle provided. Secure disc table to disc guard using the handle and flat washer.

ATTACH ABRASIVE DISC TO ALUMINUM DISC

Refer to Figures 3, 4 and 11.

- Sander is shipped with the abrasive (Key No. 5) not applied to the aluminum disc (Key No. 1).
- Clean the aluminum disc if necessary, prior to applying the abrasive.
- Remove the adhesive cover from the back of the abrasive disc.
- Slide the abrasive between the disc table and aluminum disc and center abrasive on the aluminum disc.
- Apply pressure on abrasive to paste.
- Make sure abrasive is pasted evenly on the aluminum disc.

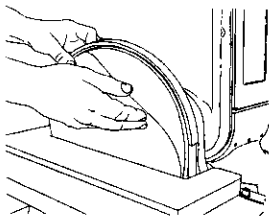


Figure 3 - Attach Abrasive Disc

- Make sure that the clearance between disc table and abrasive disc does not exceed $\frac{1}{16}$ ".

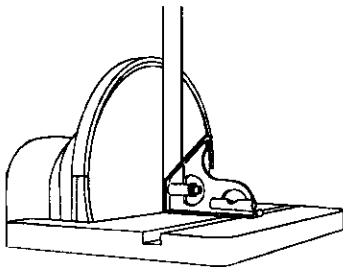


Figure 4 - Check Disc Table

- Use a straight edge or square to check if the disc table is at right angle to the disc.
- Wear a protective glove and manually turn the disc to verify that the disc turns freely and without interference.

ATTACH MITER GAUGE

Refer to Figure 11.

Required part: Miter gauge assembly

- Miter gauge is shipped completely assembled (Key No. 9) and can be used with the belt or disc tables (Key Nos. 63 and 24).
- Slide miter gauge bar (Key No. 76) into the slot on belt or disc table.

INSTALLATION

Refer to Figures 5, 6, and 7, pages 4-5.

Sander comes with the motor and wiring installed. The 115/230-volt AC universal motor has the following specifications.

NOTE: Though the motor works at 115/230-volt AC, sander must be operated at 115 volts only.

Horsepower (Maximum Developed).....	3
Amperes.....	15
Frequency.....	60 HZ
Phase.....	Single
RPM.....	3450
Prewired.....	115V

WARNING: All electrical connections must be performed by a qualified electrician.

WARNING: Do not connect sander to the power source until all assembly steps have been completed.

POWER SOURCE

The motor is designed for operation on the voltage and frequency specified. Normal loads will be handled safely on voltages not more than 10% above or below specified voltage.

Running the unit on voltages which are not within the range may cause overheating and motor burn-out. Heavy loads require that the voltage at motor terminals be no less than the voltage specified on nameplate.

- Power supply to the motor is controlled by a single pole locking rocker switch. Remove the key to prevent unauthorized use.

GROUNDING INSTRUCTIONS

WARNING: Improper connection of equipment grounding conductor can result in the risk of electrical shock. Equipment should be grounded while in use to protect operator from electrical shock.

- Check with a qualified electrician if grounding instructions are not understood or if in doubt as to whether the tool is properly grounded.
- This tool is equipped with an approved 3-conductor cord rated at 240V and a 3-prong grounding type plug rated at 125V (Figure 5) for your protection against shock hazards.
- Grounding plug should be plugged directly into a properly installed and grounded 3-prong grounding-type receptacle, as shown (Figure 5).

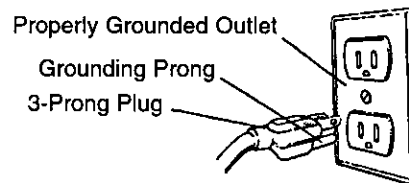


Figure 5 - 3-Prong Receptacle

- Do not remove or alter grounding prong in any manner. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electrical shock.

WARNING: Do not permit fingers to touch the terminals of plug when installing or removing from outlet.

- Plug must be plugged into matching outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not modify plug provided. If it will not fit in outlet, have proper outlet installed by a qualified electrician.
- Inspect tool cords periodically, and if damaged, have repaired by an authorized service facility.

- Green (or green and yellow) conductor in cord is the grounding wire. If repair or replacement of the electric cord or plug is necessary, do not connect the green (or green and yellow) wire to a live terminal.
- Where a 2-prong wall receptacle is encountered, it must be replaced with a properly grounded 3-prong receptacle installed in accordance with National Electric Code and local codes and ordinances.

WARNING: This work should be performed by a qualified electrician.

A temporary 3-prong to 2-prong grounding adapter (see Figure 6) is available for connecting plugs to a two pole outlet if it is properly grounded.

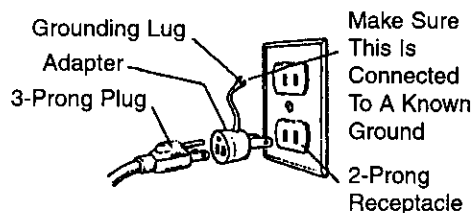


Figure 6 - 2-Prong Receptacle with Adapter

- Do not use a 3-prong to 2-prong grounding adapter unless permitted by local and national codes and ordinances. (A 3-prong to 2-prong grounding adapter is not permitted in Canada.) Where permitted, the rigid green tab or terminal on the side of the adapter must be securely connected to a permanent electrical ground such as a properly grounded water pipe, a properly grounded outlet box or a properly grounded wire system.
- Many cover plate screws, water pipes and outlet boxes are not properly grounded. To ensure proper ground, grounding means must be tested by a qualified electrician.

EXTENSION CORDS

- The use of any extension cord will cause some drop in voltage and loss of power.
- Wires of the extension cord must be of sufficient size to carry the current and maintain adequate voltage.
- Use the table to determine the minimum wire size (A.W.G.) extension cord.
- Use only 3-wire extension cords having 3-prong grounding type plugs and 3-pole receptacles which accept the tool plug.
- If the extension cord is worn, cut, or damaged in any way, replace it immediately.

Extension Cord Length

Wire Size	A.W.G.
Up to 50 ft.	14
50-100 ft.	12

NOTE: Using extension cords over 100 ft. long is not recommended.

ELECTRICAL CONNECTIONS

WARNING: All electrical connections must be performed by a qualified electrician.

WARNING: Make sure tool is off and disconnected from power source while motor is mounted, connected, reconnect- ed or any time wiring is inspected.

Motor and wires are installed as shown in wiring diagram (See Figure 7). Motor is assembled with approved, 3-conduc- tor cord to be used at 115/230 volts. Motor is prewired at the factory for 115 volts.

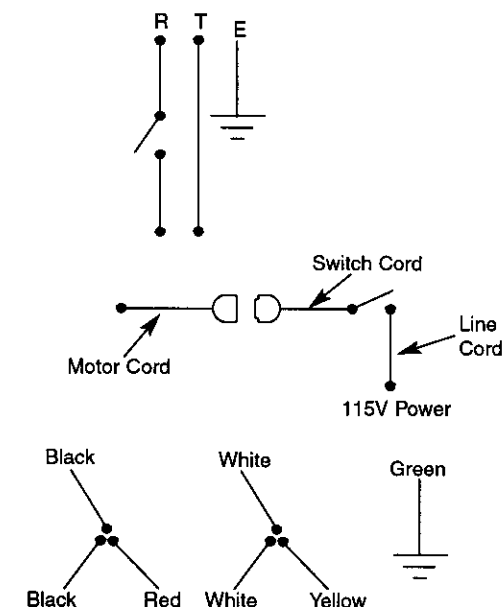


Figure 7 - Wiring Schematic

Sander has a locking rocker switch with removable key for safe and easy operation.

- Remove the key from the locking rocker to prevent unau- thorized use of the tool. To replace the key, press key into the slot on the locking rocker.

Sander also has a thermal overload protector to prevent dam- age to motor and other electrical components. The thermal overload protector will get activated when high temperature conditions are observed while operating the tool. This will turn the tool off to prevent temperature buildup. If that occurs, give adequate time for the sander to cool down and depress the reset button once. The tool will be ready to operate.

OPERATION

Refer to Figures 8, 9, 10, 11 and 12, pages 6, 7, 10 and 12.

DESCRIPTION

Craftsman 6" Oscillating Belt and 12" Disc Sander with cabi- net is constructed of rugged cast iron and heavy gauge steel providing stability and vibration-free operation. The 6 x 48" belt and 12" diameter disc are used to sand, deburr, bevel and grind large workpieces of wood, plastic and metal.

The 6 x 48" belt housing can be pivoted from vertical to hori- zontal for sanding large, straight workpieces. The belt assem- bly includes a tilting cast iron table that tilts 45°, miter gauge and 4" dust collection chute. The belt oscillates right and left to reduce heat build-up and extend belt life.

The 12" diameter disc can be used to sand or bevel surfaces with the use of a cast iron table that tilts out 45° and in 20°, miter gauge slot and 4" dust collection chute.

The 3" diameter idler drum permits the sanding of contoured shapes and finishes by positioning the adjustable platen from a horizontal to vertical position.

The two dust collection chutes accept the standard 4" dust collection hose for quick removal of dust. The adjustable miter gauge can be used on both the belt and disc tables for guiding the workpiece at a desired angle while sanding.

SPECIFICATIONS

Belt size	6 x 48", 100 grit
Belt platen area	6 $\frac{5}{8}$ x 16 $\frac{7}{8}$ "
Belt table dimensions	6 x 10 $\frac{1}{8}$ "
Belt table tilts	-20° to +45°
Belt dust chute diameter	4"
Belt speed	1570 FPM
Disc diameter	12", 100 grit
Disc table dimensions	7 x 16"
Disc table tilts	0 to 45° outward 0 to 20° inward
Disc dust chute diameter	4"
Disc speed	2000 RPM
Base dimensions	23 $\frac{1}{2}$ x 21 x 55 $\frac{1}{2}$ "
Switch	120 Volts, SP, Locking rocker
Motor	3HP (max. developed) 3450 RPM 115V, 15 AMPS
Weight	197 lbs

WARNING: Operation of any power tool can result in foreign objects being thrown into eyes which can result in severe eye damage. Always wear safety goggles complying with United States ANSI Z87.1 (shown on package) before commencing power tool operation. Safety goggles are available at Sears retail stores or catalog.

CAUTION: Always observe the following safety precautions.

SAFETY PRECAUTIONS

- Whenever adjusting or replacing any parts on the tool, turn switch OFF and remove the plug from power source.
- Recheck table handles. They must be tightened securely.
- Make sure all guards are properly attached. All guards should be securely fastened.
- Make sure all moving parts are free and clear of any interference.
- Make sure all fasteners are tight and have not vibrated loose.
- With power disconnected, test operation by hand to verify clearance and adjust if necessary.
- Always wear eye protection or face shield.
- Make sure abrasive belt tracks properly. Correct tracking gives optimum performance.
- After turning switch on, always allow belt to come up to full speed before sanding or grinding.
- Be sure motor runs clockwise on disc side. Abrasive belt must travel down.
- Keep your hands clear of abrasive belt, disc and all moving parts.
- For optimum performance, do not stall motor or reduce speed. Do not force the work into the abrasive.
- Support workpiece with belt table when sanding with belt, with disc table when sanding with disc.
- Never push a sharp corner of the workpiece rapidly against belt or disc. Abrasive backing may tear.

- Replace abrasives when they become loaded (glazed) or frayed.
- When grinding metal, move workpiece across abrasive to prevent heat built up.
- Never attempt wet sanding. If the workpiece becomes too hot to handle, cool it in water.

POSITION BELT TABLE

Refer to Figures 8 and 11.

The belt table (Key No. 63) can be tilted from -20° to +45°. To adjust belt table position:

- Unlock the handle (Key No. 16) on the right side of table.

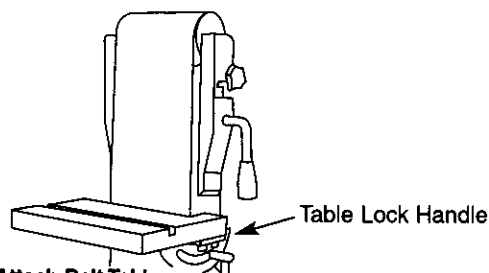


Figure 8 - Attach Belt Table

- Set the belt table to any angle between -20° and +45° using the scale.
- Lock the handle to secure belt table position.

WORK STOP

Refer to Figure 11.

The work stop (Key No. 31) can be used instead of the belt table.

- Remove belt table from the belt housing (Key No. 48) by loosening and removing handle (Key No. 16).
- Mount workstop using bolt (Key No. 30) and washer (Key No. 13) which are located on belt housing.

ADJUSTING BELT HOUSING

Refer to Figures 9, 11 and 12.

The belt housing (Figure 11, Key No. 48) can be positioned at a full vertical position, a full horizontal position, or at any angle in between which is convenient for the sanding operation.

To adjust belt housing position:

- Loosen and remove three knobs (Figure 12, Key Nos. 7 and 27).
- Remove dust hood (Figure 12, Key No. 28).
- Loosen hex nut (Figure 11, Key No. 38).
- Move to the rear of the sander.
- Loosen hex nut (Figure 11, Key No. 38) below the belt cover (Figure 11, Key No. 49).
- Gently push belt housing to move to the desired angle using the scale.
- A positive stop bolt (Figure 12, Key No. 30) is provided to stop the belt housing at the full horizontal position.
- Tighten both hex nuts (Figure 11, Key No. 38) to secure belt housing position.
- Replace dust hood using the knobs.

HORIZONTAL BELT SANDING

Refer to Figures 9 and 11.

- Adjust the belt housing to full horizontal position as described in the above section, "Adjusting Belt Housing".
- Remove the belt table by removing handle (Key No. 16).
- Install work stop as described in "Work Stop", page 6.

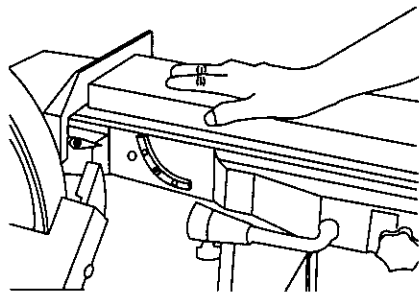


Figure 9 - Horizontal Belt Sanding

- Idler drum (Key No. 65) can be used as a contact drum to sand curved surfaces.

ABRASIVE BELT FINISHING

- Finishing flat surfaces: Hold workpiece firmly with both hands; keep fingers away from abrasive belt. Use work stop. Work stop is used to position and secure work being sanded. Keep end butted against work stop and move work evenly across abrasive belt. Use extra caution when finishing very thin pieces. Finishing long pieces: remove work stop. Apply only enough pressure to allow abrasive belt to remove material.
- Finishing curved edges: Finish outside curves on flat portion of abrasive belt. Finish inside curves on idler drum portion of abrasive belt.
- Finishing end grain: It is more convenient to finish ends of long workpieces with the abrasive belt in a vertical position.
- For accuracy use miter gauge.
- Adjust belt table angle for beveled work.
- Belt oscillation may be stopped by pulling on black washer on gearbox assembly. Press in on washer to restart oscillation. Do not adjust belt tracking with oscillation stopped.

USING MITER GAUGE

Refer to Figure 11.

- The miter gauge is used on either the disc or belt table. Use the miter gauge for securing the work and holding the proper angle while sanding.
- Adjust angle by repositioning the miter gauge (Key No. 79). Loosen the knob (Key No. 66) to reposition miter gauge.
- Tighten the knob to secure miter gauge position.
- Miter gauge assembly has a positive stop set-up for 90° and 45° on either side.
- To use the positive stop, loosen the knob, retract the indexing pin (Key No. 75) gently, turn the miter gauge slightly, slide in indexing pin and turn the miter gauge until the edge of the screw (Key No. 77) is stopped by the indexing pin.
- Check accuracy of miter gauge scale (Key No. 72).
- Use a combination square to adjust miter gauge square to disc. Scale should be at zero. Loosen screw (Key No. 70) and reposition scale if necessary.

BELT TRACKING

Refer to Figures 10 and 11.

Belt (Key No. 25) should oscillate around center on drive and idler drums (Key Nos. 36 and 65). The sander is shipped with the tracking mechanism properly adjusted. However, if adjustment is necessary:

- Loosen two knobs (Key No. 45) on either side of belt housing (Key No. 48).
- Turn the unit on.
- Insert a $\frac{1}{8}$ " or $\frac{5}{32}$ " hex wrench into the hole on adjusting nut (Key No. 55) on either side.

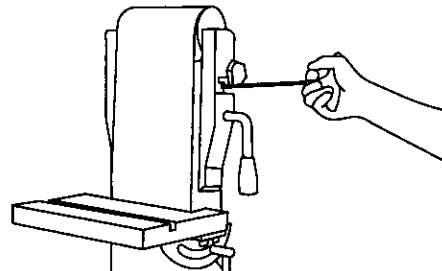


Figure 10 - Belt Tracking

- Turn the adjusting nut to the right to move belt toward you or turn the adjusting nut to the left to move belt away from you.
- Turn the unit off.
- Replace and tighten knobs on either side of belt housing to secure tracking adjustment.

REPLACING BELT

Refer to Figures 10 and 11.

- Sanding belt must be replaced when worn, torn, or glazed.
- Push up the belt tension handle (Key No. 52) to release belt tension.
- Loosen and remove four knobs (Key No. 51) from the rear of the sander.
- Remove belt cover (Key No. 49).
- Slide old belt off the drive and idler drums (Key Nos. 36 and 65).

NOTE: There may be an arrow on the inside of the belt. The arrow should point down toward the belt table to ensure that the splice in the belt will not come apart.

- Slide new belt over the drive and idler drums; center belt on drums.
- Push the belt tension handle toward the drive drum to tension belt.
- Replace belt cover using knobs (Key No. 51).
- Wear a protective glove and manually rotate the belt by hand to check tracking. If tracking needs to be adjusted, follow steps described in "Belt Tracking".

POSITION DISC TABLE

Refer to Figure 11.

- Disc table (Key No. 24) is adjustable from 0° to 45° outward and 0° to 20° inward.
- To adjust the disc table position, loosen the two handles (Key No. 16) from either side of the disc table.

- Use the scale on disc table trunnions to set table at the desired angle.
- Secure disc table position by tightening the two handles.

ABRASIVE DISC FINISHING

- Abrasive disc sanding is well suited for finishing small flat surfaces and convex edges.
- Move workpiece across down side (right) of abrasive disc.
- Abrasive disc moves fastest and removes more material at outer edge.
- For accuracy, use miter gauge.

REPLACING ABRASIVE DISC

Refer to Figures 11 and 12.

- Loosen and remove four bolts (Figure 11, Key No. 4) from disc cover plate (Figure 11, Key No. 3).
- Loosen two top bolts (Figure 12, Key No. 22) from dust collection port (Figure 12, Key No. 21).
- Remove disc cover plate.
- Remove old abrasive by peeling it from the aluminum disc. Removing aluminum disc is not necessary.
- Clean aluminum disc if necessary. Select the proper abrasive disc and apply to aluminum disc.
- Additional abrasive discs are available (See Recommended Accessories, page 11).
- Replace disc cover plate
- Tighten bolts on dust collection port.
- Replace four bolts to secure disc cover plate.

MAINTENANCE

WARNING: Make certain that the unit is disconnected from power source before attempting to service or remove any component.

REPLACING V-BELT

Refer to Figures 11 and 12.

- Turn sander off and disconnect it from power source.
- Loosen and remove two handles (Figure 11, Key No. 16) from either side of the disc table (Figure 11, Key No. 24).
- Slide out disc table from the disc guard (Figure 11, Key No. 11).
- Loosen the set screw (Figure 11, Key No. 2) securing the aluminum disc (Figure 11, Key No. 1). Use the hole on the top of disc guard to locate and loosen set screw. Do not remove set screw.
- Loosen and remove four bolts (Figure 11, Key No. 4) from disc cover plate.
- Loosen and remove four bolts (Figure 12, Key No. 22) from dust collection port (Figure 12, Key No. 21).
- Remove disc cover plate and dust collection port.
- Slide out and remove aluminum disc.

- Loosen and remove knob (Figure 12, Key No. 7) from cabinet door assembly (Figure 12, Key No. 8).
- Open cabinet door.
- Turn knob (Figure 12, Key No. 7) on bracket (Figure 12, Key No. 17) to release tension on V-belt (Figure 11, Key No. 6).
- Replace V-belt. Use parts list to order the appropriate V-belt.
- Tighten knob on bracket to tension the V-belt.
- Do not over tension the V-belt. Excessive tension on V-belt will reduce life of the belt and function of the tool. A belt is properly tensioned when light pressure applied to midpoint of the belt produces about $\frac{1}{2}$ " deflection.
- Close the cabinet door and secure it with the knob.
- Replace aluminum disc and secure it by tightening the set screw.
- Replace dust collection port and disc cover plate and secure it with bolts.
- Replace disc table onto the disc guard and secure it using the two handles.

CLEANING

Keep machine and workshop clean. Do not allow sawdust to accumulate on the tool. Keep the drums clean. Dirt on drums will cause poor tracking and belt slippage. Operate tool with dust collector to keep dust from accumulating.

WARNING: After sanding wood or nonmetallic material, always clean dust collector and guards of sawdust before grinding metal. Sparks could ignite debris and cause a fire. Be certain motor is kept clean and is frequently vacuumed free of dust.

Use soap and water to clean painted parts, rubber parts and plastic guards.

LUBRICATION

The shielded ball bearings in this tool are permanently lubricated at the factory. They require no further lubrication.

- When operation seems stiff, a light coat of automobile-type wax applied to the belt and disc tables will make it easier to feed the work while finishing.
- Do not apply wax to the belt platen. Belt could pick up wax and deposit it on the drums causing belt to slip.
- Periodically use a grease gun to add grease to gearbox assembly through grease nipple.

KEEP TOOL IN REPAIR

- If power cord is worn, cut, or damaged in any way, have it replaced immediately.
- Replace worn abrasives when needed.
- Replace any damaged or missing parts. Use parts list to order parts.

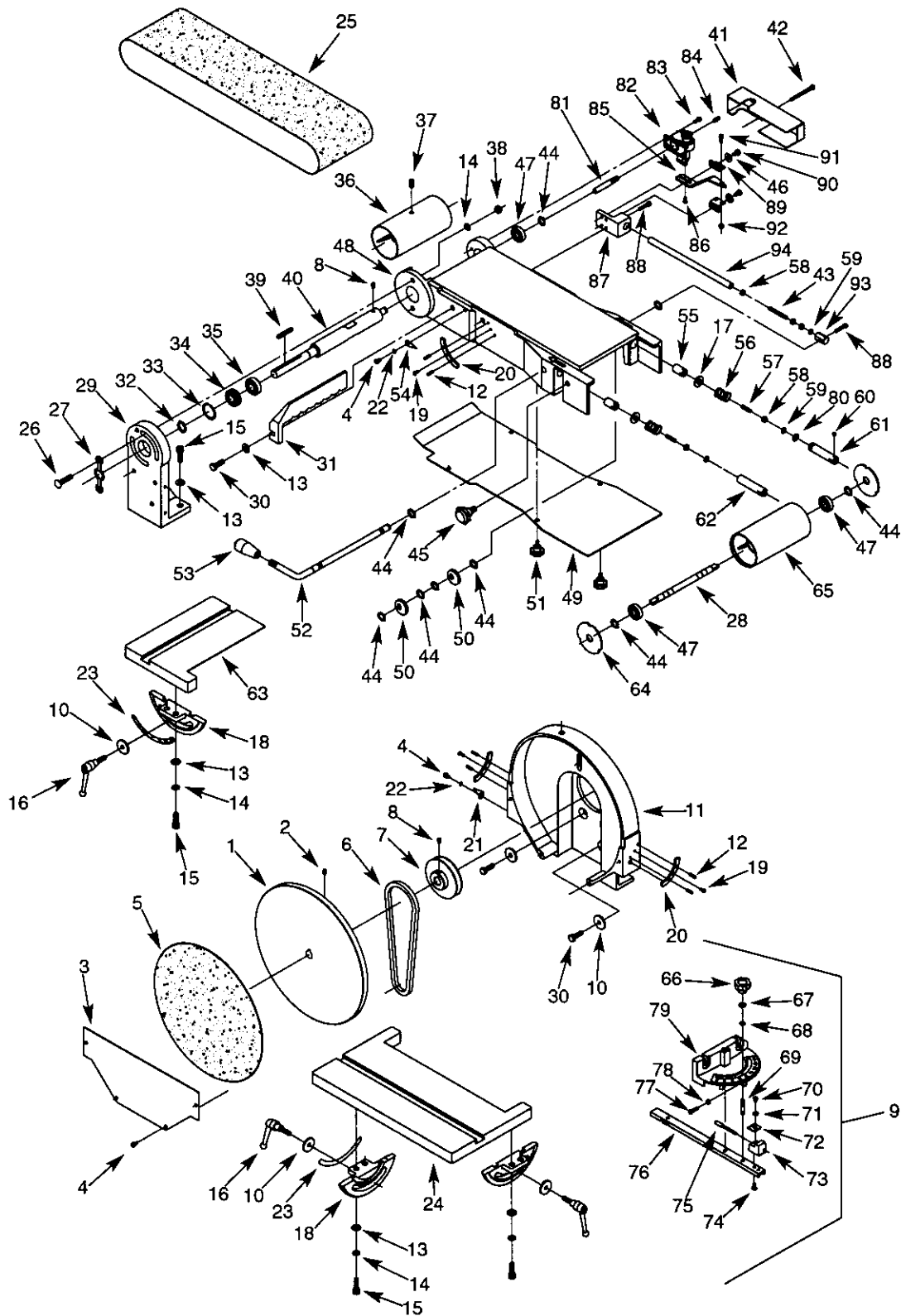
Any attempt to repair motor may create a hazard unless repair is done by a qualified service technician. Repair service is available at your nearest Sears store.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Motor will not start	1. Low voltage 2. Open circuit in motor or loose connections 3. Thermal overload protector activated	1. Check power line for proper voltage 2. Inspect all lead connections on motor for loose or open connection 2. Push thermal overload button to reset
Motor will not start; fuses blown or circuit breakers are tripped	1. Short circuit in line cord or plug 2. Short circuit in motor or loose connections 3. Incorrect fuses or circuit breakers in power line 4. Thermal overload protector activated	1. Inspect line cord or plug for damaged insulation and shorted wires 2. Inspect all lead connections on motor for loose or shorted terminals or worn insulation on wires 3. Install correct fuses or circuit breakers 4. Push thermal overload button to reset
Motor fails to develop full power (power output of motor decreases rapidly with decrease in voltage at motor terminals)	1. Power line overloaded with lights, appliances and other motors 2. Undersize wires or circuits too long 3. General overloading of power company's facilities 4. V-belt tension not correct	1. Reduce the load on the power line 2. Increase wire sizes, or reduce length of wiring 3. Request a voltage check from the power company 4. Replace V-belt
Motor overheats	1. Motor overloaded 2. V-belt tension not correct	1. Reduce load on motor 2. Replace V-belt
Motor stalls (resulting in blown fuses or tripped circuit breakers)	1. Short circuit in motor or loose connections 2. Low voltage 3. Incorrect fuses or circuit breakers in power line 4. Motor overload	1. Inspect connections in motor for loose or shorted terminals or worn insulation on lead wires. 2. Correct the low line voltage conditions 3. Install correct fuses or circuit breakers 4. Reduce load on motor
Machine slows down while operating	Applying too much pressure to workpiece	Ease up on pressure
Abrasive belt runs off top wheel	Not tracking properly	See operation, "Belt Tracking"

Model 351.226061

Figure 11 - Replacement Parts Illustration for Sander



REPLACEMENT PARTS LIST FOR SANDER

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	02225.00	Aluminum Disc	1
2	STD503103	5/16-18 x 3/8" Set Screw*	1
3	02226.01	Disc Cover Plate	1
4	03333.00	#10-24 x 3/8" Socket Head Bolt	6
5	02227.00	12" Abrasive Disc	1
6	STD304340	A32 V-Belt*	1
7	02228.00	Pulley	1
8	STD502503	1/4-20 x 3/8" Set Screw*	2
9	08257.00	Miter Gauge Assembly (66-79)	1
10	07296.00	8 x 30 x 3mm Flat washer	7
11	03040.01	Disc Guard	1
12	01201.00	4 x 16mm Spring Pin	6
13	STD551031	5/16" Flat Washer*	9
14	STD551131	5/16" Lock Washer*	2
15	04020.00	5/16-18 x 1" Socket Head Bolt	9
16	03041.00	Handle Assembly	3
17	00558.00	5/16" Flat Washer	2
18	03042.00	Trunnion	3
19	03043.00	Rivet	3
20	03044.00	Slide	3
21	03045.00	Pointer	1
22	STD551110	#10 Lock Washer*	2
23	03046.00	Angle Label	2
24	03047.00	Disc Table	1
25	9-28015	Abrasive Belt	1
26	04867.00	5/16-18 x 1 3/4" Carriage Bolt	2
27	03049.00	Bolt Liner	1
28	03074.00	Idler Drum Shaft	1
29	03050.01	Pivot Bracket	1
30	04020.00	5/16-18 x 1" Socket Head Bolt	4
31	03051.01	Work Stop	1
32	STD582066	3AMI-17 Retaining Ring*	1
33	03053.00	Snap Ring	1
34	03054.00	Ball Bearing	1
35	STD315535	Ball Bearing 6003ZZ*	1
36	03056.00	Drive Drum	1
37	00741.00	5/16-18 x 3/4" Set Screw	2
38	STD541031	5/16-18" Hex Nut*	2
39	04868.00	5 x 5 x 65mm Key	1
40	17984.00	Drive Shaft	1
41	17973.00	Guard	1
42	02644.00	#10-24 x 2 1/2" Pan Head Screw	1
43	17971.00	1/4-20 x 2" Set Screw	1
44	STD582043	3AMI-12 Retaining Ring*	9
45	03059.00	Knob	2
46	STD851006	6mm Flat Washer*	2
47	STD315215	Ball Bearing 6201ZZ*	3
48	17983.00	Belt Housing	1

* Standard hardware item available locally

Δ Not shown

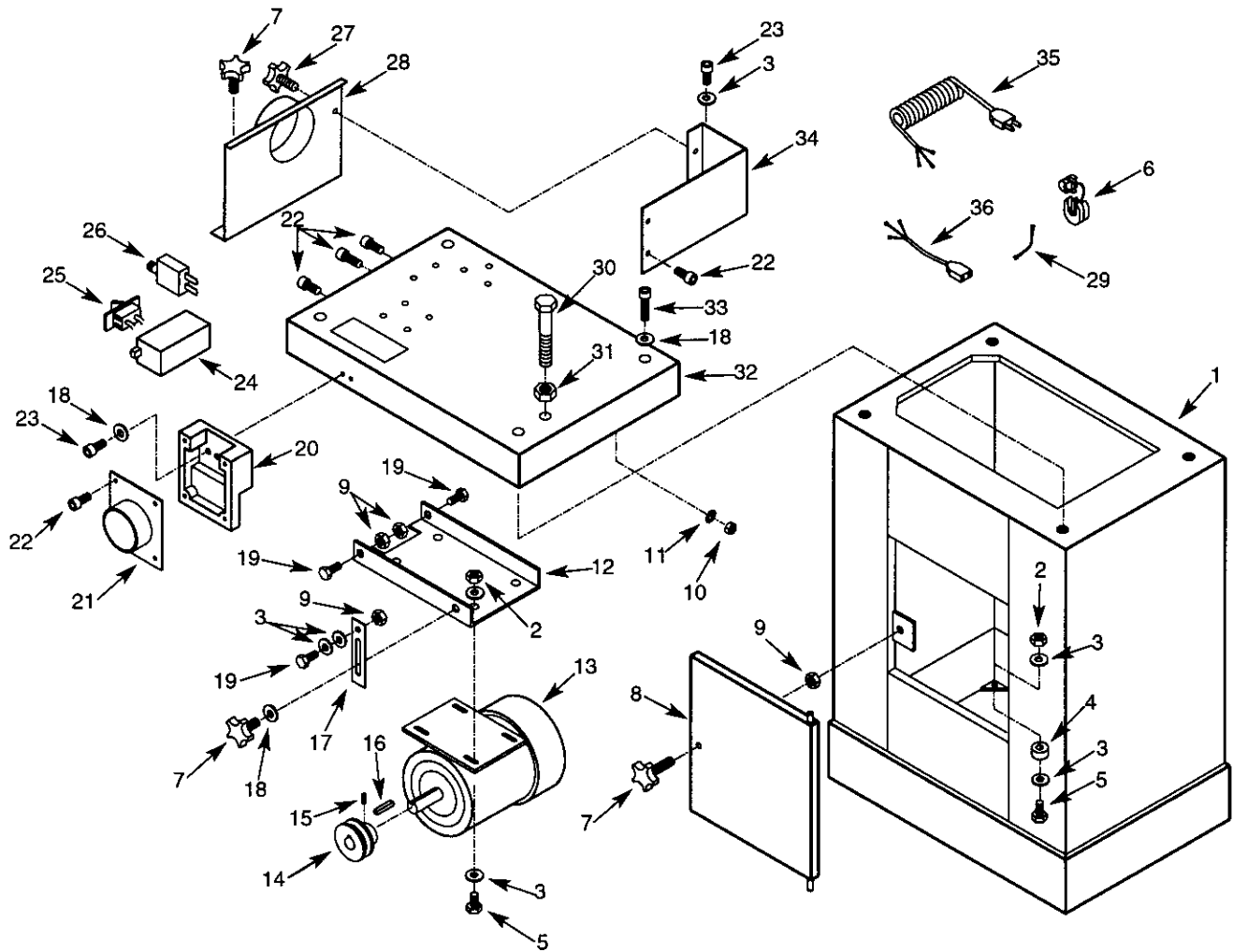
KEY NO.	PART NO.	DESCRIPTION	QTY.
49	03062.00	Belt Cover	1
50	03063.00	Cam	2
51	02303.00	Knob	4
52	17960.00	Belt Tension Handle	1
53	03065.00	Knob	1
54	03066.00	Pointer	1
55	03067.00	Adjusting Nut	2
56	03068.00	Spring	2
57	01395.00	1/4 x 20 x 1" Set Screw	2
58	STD541025	1/4"-20 Hex Nut*	5
59	STD551125	1/4" Lock Washer*	3
60	04869.00	5-0.8 x 6mm Set Screw	1
61	17961.00	Right Adjusting Bar	1
62	03071.00	Left Adjusting Bar	1
63	03072.00	Belt Table	1
64	03073.00	Drum Cap	2
65	08400.00	Idler Drum	1
66	08252.00	Knob	1
67	STD551025	1/4" Flat Washer*	1
68	01370.00	#10 Fiber Washer	1
69	08255.00	Threaded Pin	1
70	STD511002	#10-24 x 1/4" Pan Head Screw*	1
71	STD551010	#10 Flat Washer*	1
72	08254.00	Scale	1
73	08253.00	Indicator	1
74	05991.00	#10-24 x 1/2" Flat Head Screw	2
75	08256.00	Indexing Pin	1
76	03075.00	Miter Gauge Bar	1
77	STD511007	#10-24 x 3/4" Pan Head Screw*	3
78	STD541010	#10-24 Hex Nut*	3
79	08251.00	Miter Gauge	1
80	17978.00	11.0 x 2.4mm O-Ring	1
81	17962.00	Gear Shaft	1
82	17963.00	Gearbox Assembly	1
83	17964.00	5-0.8 x 12mm Washer Head Screw	3
84	05763.00	Grease Nipple	1
85	17965.00	Crank	1
86	10372.00	4-1.6 x 12mm Threadforming Screw	1
87	17966.00	Guide Block	1
88	06045.00	5-0.8 x 20mm Socket Head Bolt	3
89	17967.00	Bracket	2
90	17968.00	6-1.0 x 8mm Hex Head Bolt	2
91	03089.00	#10-24 x 1/2" Socket Head Bolt	1
92	17969.00	#10-24 Fibre Hex Nut	1
93	17970.00	Rod End	1
94	17972.00	Connecting Rod	1
Δ	17985.00	Operator's Manual	1

Recommended Accessories

Δ	Abrasive Belts 6 x 48" (Fine) 120 Grit	9-28014
Δ	Abrasive Belts 6 x 48" (Coarse) 50 Grit	9-28016
Δ	Abrasive Cleaner	9-22744

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Figure 12 - Replacement Parts Illustration for Cabinet



REPLACEMENT PARTS LIST FOR CABINET

KEY NO.	PART NO.	DESCRIPTION	QTY.
1	3076.01	Cabinet	1
2	STD541031	$\frac{5}{16}$ "-18 Hex Nut*	8
3	STD551031	$\frac{5}{16}$ " Flat Washer*	20
4	8879.00	Foot Rest	4
5	STD523110	$\frac{5}{16}$ -18 x 1" Hex Head Bolt*	8
6	1413.00	Strain Relief	3
7	3314.00	Knob	4
8	3077.01	Cabinet Door Assembly	1
9	STD541431	$\frac{5}{16}$ "-18 Locking Nut*	4
10	STD541010	#10-24 Hex Nut*	1
11	STD551210	#10 Serrated Washer*	1
12	3079.00	Motor Plate	1
13	3080.01	Motor with Cord	1
14	3081.00	Motor Pulley	1
15	STD502503	$\frac{1}{4}$ -20 x $\frac{3}{8}$ " Set Screw*	1
16	0975.00	5 x 5 x 25mm Key	1
17	3082.00	Hang Up Bracket	1
18	0558.00	$\frac{5}{16}$ " Flat Washer	7
19	STD523107	$\frac{5}{16}$ -18 x $\frac{3}{4}$ " Hex Head Bolt*	3
20	3083.01	Disc Cover Bracket	1
21	3084.01	Dust Collection Port	1
22	3333.00	#10-24 x $\frac{3}{8}$ " Socket Head Bolt	9
23	2729.00	$\frac{5}{16}$ -18 x $\frac{1}{2}$ " Socket Head Bolt	4
24	3085.00	Switch Box	1
25	8066.00	Switch	1
26	16611.00	18A Circuit Breaker	1
27	3087.00	Knob	1
28	3088.01	Dust Hood	1
29	1251.00	Terminal Connector	1
30	2612.00	$\frac{1}{2}$ -12 x 5 $\frac{1}{2}$ " Shoulder Bolt	1
31	0548.00	$\frac{1}{2}$ "-12 Hex Nut	1
32	3091.01	Base	1
33	4866.00	$\frac{5}{16}$ -18 x 3" Socket Head Bolt	4
34	3093.01	Dust Hood Base	1
35	6948.00	Line Cord	1
36	3094.00	Switch Cord	1

* Standard hardware item available locally

**In U.S.A. or Canada
for in-home major brand repair service:**

Call 24 hours a day, 7 days a week

1-800-4-MY-HOMESM (1-800-469-4663)

Para pedir servicio de reparación a domicilio – 1-800-676-5811

Au Canada pour tout le service – 1-877-LE-FOYERSM (1-877-533-6937)

For the repair or replacement parts you need:

Call 6 a.m. – 11 p.m. CST, 7 days a week

PartsDirectSM

1-800-366-PART (1-800-366-7278)

www.sears.com/partsdirect

Para ordenar piezas con entrega a domicilio – 1-800-659-7084

For the location of a Sears Service Center in your area:

Call 24 hours a day, 7 days a week

1-800-488-1222

To purchase or inquire about a Sears Maintenance Agreement:

Call 7 a.m. – 5 p.m. CST, Monday – Saturday

1-800-827-6655

