KING INDUSTRIAL

6” X 48” BELT & 12” DISC SANDERS

Line Interruption

MODEL: KC-790FX

MODEL: KC-790FX-DC
with built-in dust collector

INSTRUCTION MANUAL

WARRANTY INFORMATION

2-YEAR LIMITED WARRANTY FOR THIS BELT AND DISC SANDER	**KING CANADA TOOLS OFFERS A 2-YEAR LIMITED WARRANTY FOR NON-COMMERCIAL USE.**

PROOF OF PURCHASE

Please keep your dated proof of purchase for warranty and servicing purposes.

PARTS DIAGRAM & PARTS LISTS

Refer to the Parts section of the King Canada web site for the most updated parts diagram and parts list.

LIMITED TOOL WARRANTY

King Canada makes every effort to ensure that this product meets high quality and durability standards. King Canada warrants to the original retail consumer a 2-year limited warranty as of the date the product was purchased at retail and that each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, normal wear and tear, negligence or accidents, repairs done by an unauthorized service center, alterations and lack of maintenance. King Canada shall in no event be liable for death, injuries to persons or property or for incidental, special or consequential damages arising from the use of our products.

To take advantage of this limited warranty, return the product at your expense together with your dated proof of purshase to an authorized King Canada service center. Contact your retailer or visit our web site at www.kingcanada.com for an updated listing of our authorized service centers. In cooperation with our authorized serviced center, King Canada will either repair or replace the product if any part or parts covered under this warranty which examination proves to be defective in workmanship or material during the warranty period.

NOTE TO USER

This instruction manual is meant to serve as a guide only. Specifications and references are subject to change without prior notice.

KING CANADA INC. DORVAL, QUÉBEC, CANADA H9P 2Y4

www.kingcanada.com

SAFETY INSTRUCTIONS FOR YOUR BELT AND DISC SANDERS

SAFETY INSTRUCTIONS FOR BELT AND DISC SANDERS
Safety is a combination of common sense, staying alert and knowing how your belt disc sander works. Read this manual to understand this sander.

BEFORE USING THE SANDER

WARNING: To avoid mistakes that could cause serious, permanent injury, do not plug sander in until the following is understand.

• Assembly and alignment.

• Learn the use and function of the ON-OFF switch, belt tracking knob, work tables and work table tilt lock knobs.

• Review and understanding of all safety instructions and operating procedures in this manual.

• Review of the maintenance methods for this sander.

WHEN INSTALLING OR MOVING THE SANDER

AVOID DANGEROUS ENVIRONMENT. Use the sander in a dry, indoor place protected from rain. Keep work area well lighted. Place the sander so neither the user nor bystander are forced to stand in line with the abrasive belt or disc.

To avoid injury from unexpected sander movement:

• Always unplug the sander before moving it.

• Put the sander on a firm level surface where there is plenty of room for handing and properly supporting the workpiece.

• Support the sander so it does not rock.

• Bolt the sander to its work surface.

• **NEVER STAND ON TOOL**. Serious injury could occur if the tool tips. Do not store anything above or near the tool where anyone might stand on the tool to reach them.

BEFORE EACH USE:

Inspect your sander.
DISCONNECT THE SANDER. To avoid injury from accidental starting, unplug the sander, turn the switch off before changing the setup, sanding disc or belt or adjusting anything.

CHECK DAMAGED PARTS, check for:
• alignment of moving parts

• binding of moving parts

• broken parts

• work parts that cause a gap larger than 1/16" between work support and sanding surface.

• sanding belt narrower than 1 inches. Narrower belts uncover parts that could trap your fingers.

• worn or damaged electric cords.

• stable mounting, and any other conditions that may affect the way the sander works.

If any part is missing, bent, or broken in any way, or any electrical parts don't work properly, turn the sander off and unplug the sander. REPLACE damaged, missing or failed parts before using the sander again.

MAINTAIN TOOLS WITH CARE. Keep the sander clean for best and safest performance. Follow instruction for lubricating.
REMOVE ADJUSTING KEYS AND WRENCHES from tool before turning it on.

To avoid injury from jams, slips or thrown pieces:
• USE ONLY RECOMMENDED ACCESSORIES. The use of improper accessories may cause risk of injury to person.

• Adjust any work support to clear the sanding surface by no more 1/16".

• Make sure all clamps and locks are tight and no parts have excessive play.

• KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents. Floor must not be slippery.

To avoid burns or other fire damage, never use the sander near flammable liquids, vapors or gases.

PLAN AHEAD TO PROTECT YOUR EYES, HANDS, FACE, EARS.
KNOW YOUR SANDER. Read and understand the instruction manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards related to it.

To avoid injury from accidental contact with moving parts:

• KEEP GUARD IN PLACE and in working order.

• Don't do layout, assembly, or setup work on the sander while any parts are moving.

• AVOID ACCIDENTAL STARTING. Make sure switch is "OFF" before plugging sander into a power outlet.

Plan your work.

SAFETY INSTRUCTIONS FOR YOUR BELT AND DISC SANDERS

USE THE RIGHT TOOL. Don't force tool or attachment to do a job it was not designed to do.

CAUTION: This machine is not designed for heavy deburring operations. When finishing metals, sparks or hot fragments could cause a fire. To avoid this:

- **Disconnect any dust collecting hose from the sander.**
- **Remove all traces of wood dust from the sander.**
- **Remove all traces of metal dust from the sander before sanding wood again.**

Any power sanders can throw foreign object into eyes. This can cause permanent eye damage. Everyday eyeglasses have only impact resistant lenses. They are not safety glasses. Safety glasses are available.

- Do not wear loose clothing, gloves, neckties or jewelry (rings, wrist, watches). They can get caught and draw your fingers into moving parts.
- Wear nonslip footwear.
- Tie back long hair.
- Roll long sleeve above the elbow.
- Noise levels vary widely. To avoid possible hearing damage, wear ear plugs or muffs when using sander for hours at a time.
- Sanding operations are usually dusty. Wear a dust mask along with the safety glasses.

INSPECT YOUR WORKPIECE.
Make sure there are no nails or foreign objects in the part of the workpiece to be sanded.

Plan your work to avoid THROWBACKS - when the workpiece catches on the sanding belt or disc and torn from your hands.

- Make sure there's no debris between the workpiece and its supports.
- When sanding irregularly shaped workpieces, plan your work support so it will not slip and be pulled from your hands.
- Use extra caution with large, very small or awkward workpieces.
- Never use this tool to finish pieces too small to hold by hand.
- Use extra supports (tables, saw horses, blocks etc.) for any workpieces large enough to tip when not held down to the table top.
- NEVER use another person as a substitute for a table extension, or as additional support for a workpiece that is longer or wider than the basic sander table, or to help feed, support, or pull the workpiece.
- When finishing on the disc, always press the workpiece againt the "Down" side of the disc. Sanding against the side coming up from under the table could damage the work by making it chatter, or tear the work from your hands and throw it.
- Sand only one workpiece at a time.
- Clear everything except the workpiece and related support devices off the table before turning the sander on.
- Plan the way you will hold the worpiece from start to finish.
- Avoid awkward operations and hand positions where a sudden slip could cause fingers or hand to move into a sanding surface. Keep the fingers away from where the belt goes into the dust trap.

WHENEVER SANDER IS RUNNING

WARNING: Don't let familliarity (gained from frequent use of your belt and disc sander) cause a careless mistake. A careless fraction of a second is enough to cause a severe injury. Before starting your work, watch the sander while it runs. If it makes an unfamilliar noise or vibrates a lot, stop immediately. Turn the sander off. Unplug the sander. Do not restart until finding and correcting the problem. Make sure the sanding disc turns counterclockwise before using the sander.

KEEP CHILDREN AWAY. Keep all visitors a safe distance from the sander. Make sure bystanders are clear of the sander and workpiece.

DON'T FORCE TOOL. It will do better and safer job at its designed rate. Press the workpiece against the sanding material only hard enough to let it sand without bogging down or binding.

Before freeing any jammed material:
- Turn switch "OFF"
- Unplug the sander.
- Wait for all moving parts to stop.

BEFORE LEAVING THE SANDER:
NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don' t leave until it comes to a complete stop.

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 INFORMATION

WARNING

ALL ELECTRICAL CONNECTIONS MUST BE DONE BY A QUALIFIED ELECTRICIAN. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY! ALL ADJUSTMENTS OR REPAIRS MUST BE DONE WITH THE MACHINE DISCONNECTED FROM THE POWER SOURCE. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY!

POWER SUPPLY-
KC-790FX- 110V-220V, 13A/6.5A. Pre-wired 220V.
KC-790FX-DC- 110V-220V, 15/7.5A (13A/6.5A + 2/1A). Pre-wired 220V.

WARNING: YOUR SANDER MUST BE CONNECTED TO A 220V WALL OUTLET, WITH A MINIMUM 15-AMP. BRANCH CIRCUIT AND USE A 15-AMP TIME DELAY FUSE OR CIRCUIT BREAKER. FAILURE TO CONNECT IN THIS WAY CAN RESULT IN INJURY FROM SHOCK OR FIRE.

GROUNDING
Your sander must be properly grounded. Not all outlets are properly grounded. If you are not sure if your outlet is properly grounded, have it checked by a qualified electrician.

WARNING: IF NOT PROPERLY GROUNDED, THIS SANDER CAN CAUSE ELECTRICAL SHOCK, PARTICULARLY WHEN USED IN DAMP LOCATIONS. TO AVOID SHOCK OR FIRE, IF THE POWER CORD IS WORN OR DAMAGED IN ANY WAY, HAVE IT REPLACED IMMEDIATELY.

If this sander should malfunction or breakdown, grounding provides a path of least resistance for electric current, to reduce the risk of electric shock. This sander is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING: TO MAINTAIN PROPER GROUNDING, DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER.

220V OPERATION
As received from the factory, your sander is ready to run for 220V operation. This machine is intended for use on a circuit that has an outlet and a plug which looks like the one illustrated in Fig.1A.

110V OPERATION
This sander comes with a dual voltage motor, it is possible to convert this machine from 220V to 110V operation. Unless you are a qualified electrician we do not recommend that you attempt the conversion yourself. We highly recommend that you have a qualified electrician make all wiring and component changes to make sure everything is properly installed and grounded in accordance with all local codes and ordinances.The following parts would need to be changed for each model and wiring would need to be modified as per wiring diagrams on the following page.

KC-790FX (no dust collector)- 110V parts required
- 110V Main switch
- 110V Reset (18A)
- Power cord with 110V- 15 Amp. plug, as shown in Fig.1B.

KC-790FX (with dust collector)- 110V parts required
- 110V Main switch
- 110V Reset
- Power cord with 110V- 15 Amp. plug, as shown in Fig.1B.

WARNING: DO NOT USE A TWO-PRONG ADAPTOR(S) FOR THEY ARE NOT IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES. NEVER USE IN CANADA.

EXTENSION CORDS
The use of any extension cord will cause some loss of power. If you do not have a choice, use the table in Fig.2 to determine the minimum wire size (A.W.G-American Wire Gauge) extension cord needed for 220V operation. Use only 3-wire extension cords which have 3-prong grounding type plugs and 3-hole receptacles which accept the tool's plug.

For circuits that are further away from the electrical circuit box, the wire size must be increased proportionately in order to deliver ample voltage to the sander motor. Refer to Fig.2 for wire length and size.

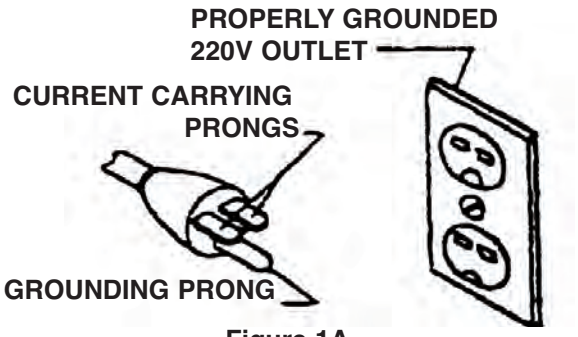


Figure 1A

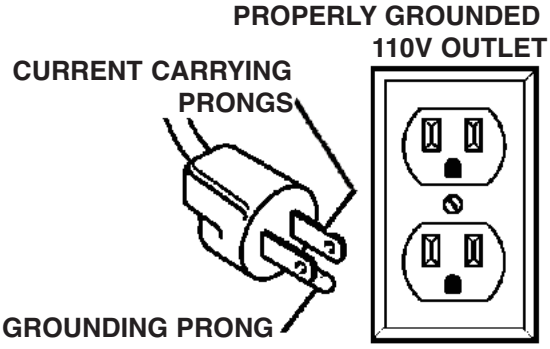


Figure 1B

LENGTH OF EXTENSION CORD	WIRE GAUGE REQUIRED (AMERICAN WIRE GAUGE) 220V LINES
0-25 FEET	NO.16
26-50 FEET	NO.14
51-100 FEET	NO.12

Figure 2

ELECTRICAL INFORMATION

TURNING THE SANDER ON/OFF

This Sander comes with a 2 step activation safety switch, refer to Fig.3, which starts and stops the machine. To turn the Sander on:

1. Push up on the emergency stop button (A) Fig.3 and lift the switch cover (B) as shown.
2. Press the green On button (C) to start the Sander.
3. To stop the Sander, you can either press the red Off button (D) or close the switch cover and push the large emergency stop button (E).

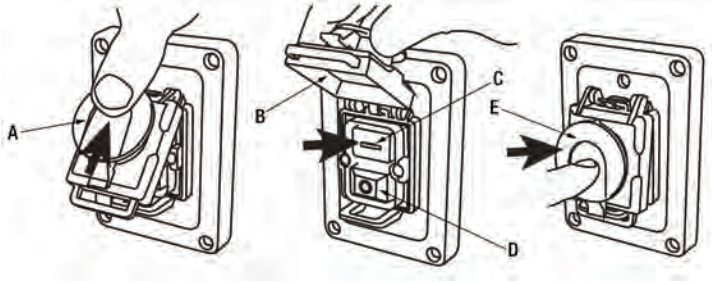


Figure 3

RESET BUTTON (OVERLOAD PROTECTOR)

This machine comes with an overload reset button (A) Fig.4. If the machine motor overheats, a safety mechanism stops the motor automatically. To prevent motor overheating, reduce load on motor or check voltage. Allow motor to cool down, then press the reset button and restart the machine. If the machine does not restart, wait an additional 5 minutes before attempting to restart Sander.

TURNING THE BUILT-IN DUST COLLECTOR ON/OFF (KC-790FX-DC ONLY)

The On/Off switch (B) Fig.4 is used to turn the built-in Dust Collector on and off. To turn the Dust Collector "On", lift the switch upwards (On position), to turn the Dust Collector "Off", push the switch downwards (Off position).

This switch comes with a removable safety key (C) Fig.4. When the safety key is removed from the switch and placed in a safe location, unauthorized persons or children can't turn the switch to the On position. It is recommended to always remove the safety key from the switch whenever the sander is not in use. To remove the safety switch, make sure the switch is in the Off position and simply pull out the safety key.

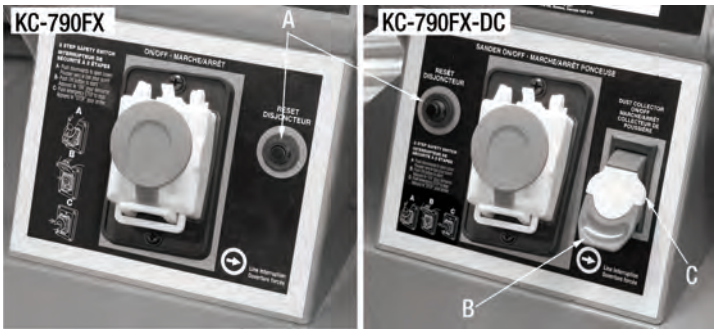
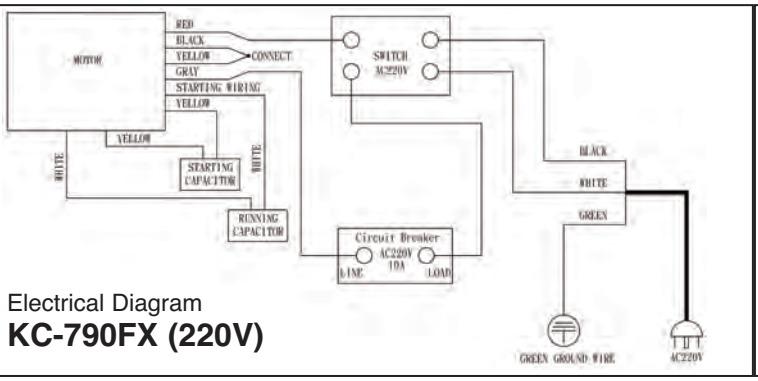
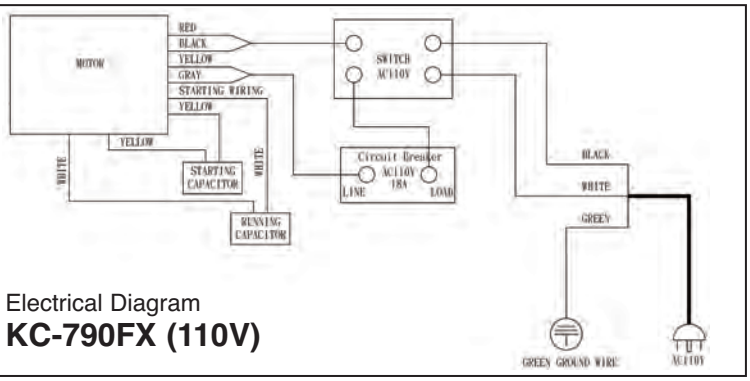


Figure 4

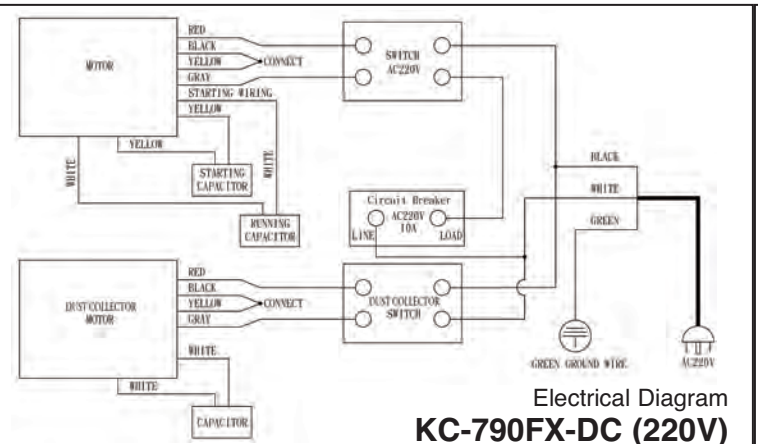
ELECTRICAL DIAGRAMS



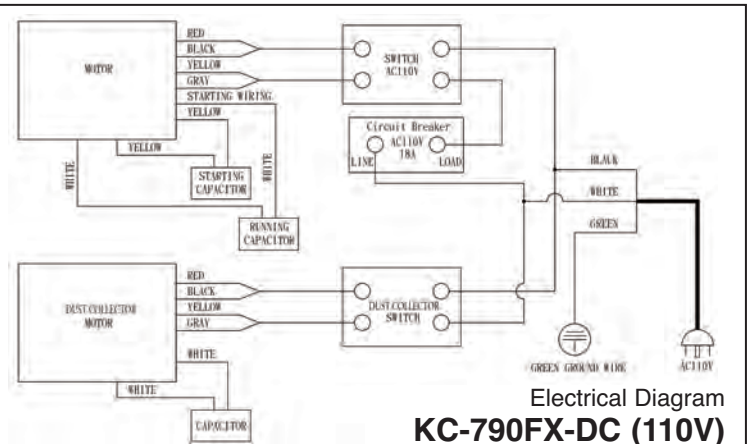
Electrical Diagram
KC-790FX (220V)



Electrical Diagram
KC-790FX (110V)



Electrical Diagram
KC-790FX-DC (220V)

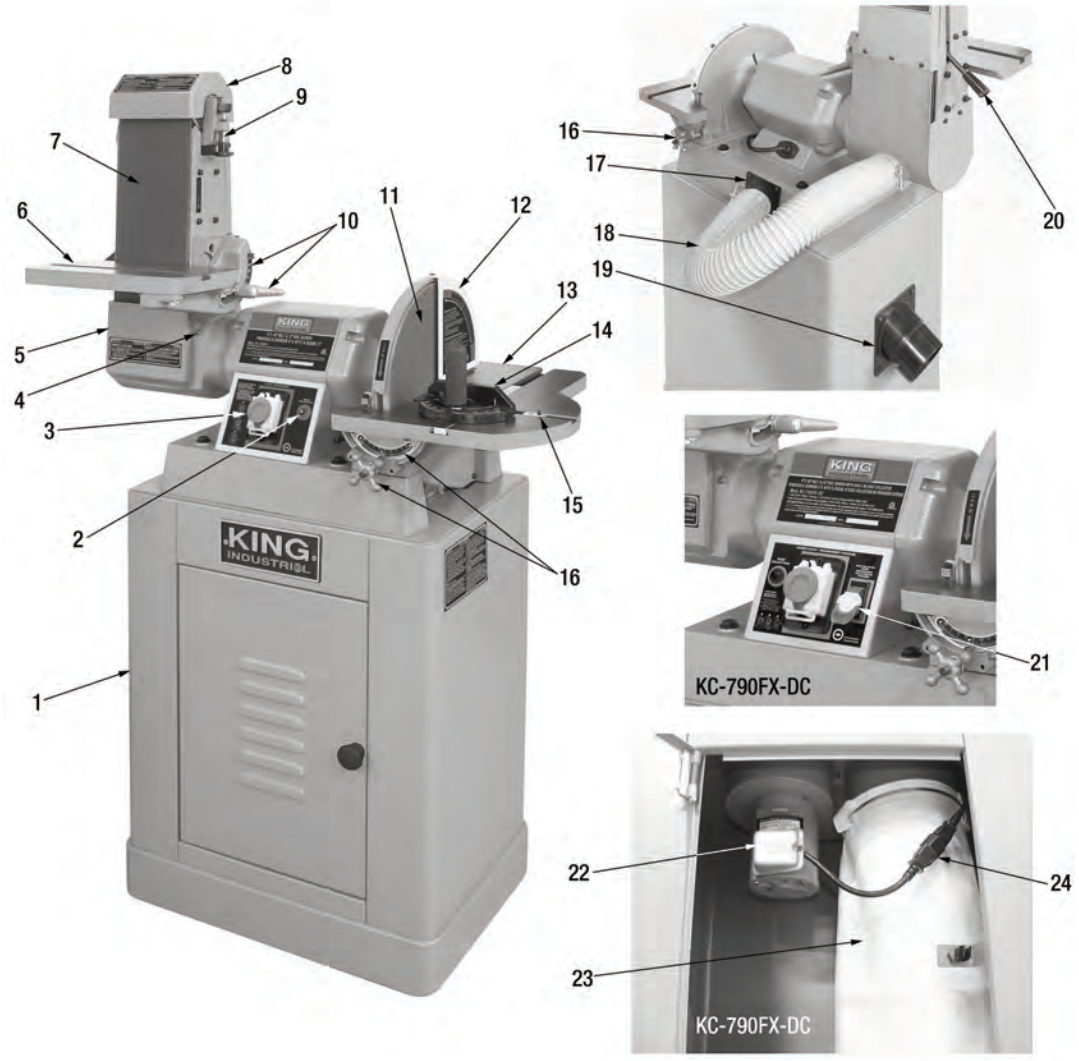


Electrical Diagram
KC-790FX-DC (110V)

GETTING TO KNOW YOUR SANDER

Getting to know your Sander

1. Cabinet stand.
2. Reset.
3. Sander On/Off switch.
4. Sanding belt angle lock.
5. Sanding belt lower guard.
6. Sanding belt tilting table.
7. 6” x 48” sanding belt.
8. Sanding belt upper guard.
9. Belt tracking knob.
10. Belt table lock handle and scale.
11. 12” sanding disc.
12. Sanding disc safety guard.
13. Sanding disc tilting table.
14. Miter gauge.
15. T-slot centre point.
16. Disc table lock handle and scale.
17. Sanding belt dust inlet.
18. Sanding belt collection hose.
19. 4” dust chute (KC-790FX only).
20. Belt tension lever.
21. Dust Collector On/Off switch with removable safety key (KC-790FX-DC only).
22. Dust Collector motor (KC-790FX-DC only).
23. Dust collection bag. (KC-790FX-DC only).
24. Dust Collector quick connect power cord (KC-790FX-DC only).



SPECIFICATIONS

MODEL	KC-790FX	KC-790FX-DC
Belt	6” x 48”	6” x 48”
Belt table tilt angle	0 - 45°	0 - 45°
Belt speed	2,250 SFPM	2,250 SFPM
Disc	12”	12”
Disc speed	1,750 RPM	1,750 RPM
Disc table tilt angle	45°∇ - 45°Δ	45°∇ - 45°Δ
Motor	1-1/2 HP, 13/6.5 Amp.	1-1/2 HP, 13/6.5 Amp.
Dust collector motor	-	1/4 HP, 2/1 Amp.
Voltage	110V/220V, 1 phase, 60 Hz	110V/220V, 1 phase, 60 Hz
Pre-wired at	220V	220V
Assembled dimensions (LxWxH)	35” x 25” x 56-1/4”	35” x 25” x 56-1/4”
Weight	265 lbs	280 lbs

ASSEMBLY

Clean all rust protected surfaces with ordinary house hold type grease or spot remover. Do not use: gasoline, paint thinner, mineral spirits, etc. These may damage painted surfaces. Apply a coat of paste wax to the tables to prevent rust. Wipe all parts thoroughly with a clean dry cloth.

INSTALLING BELT AND DISC SANDER ONTO CABINET STAND

1. Position the cabinet stand (A) Fig.5 on a firm and level surface.

2. Lift the Belt and Disc sander (B) onto the top of the cabinet stand.

3. If you are assembling model KC-790FX-DC with the built-in dust collector onto the cabinet stand, make sure to pass the dust collector cord (C) into the small hole in the top of the cabinet stand as shown.

4. Line up the mounting holes in the base and the cabinet stand. Insert 4 long hex. bolts and washers into the mounting holes. Open the cabinet door and secure the base to the cabinet stand using 4 hex. nuts and washers.

5. If you are assembling model KC-790FX-DC with the built-in dust collector, connect the dust collector cord (A) Fig.6 to the dust collector motor cord (B) as shown. Also make sure the dust bag (C) Fig.6 is clamped properly with the wire clamp (D).

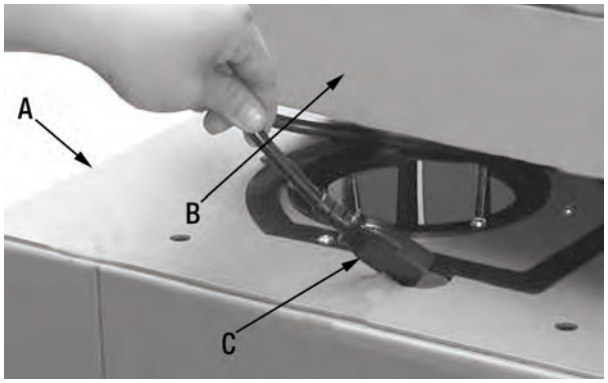


Figure 5

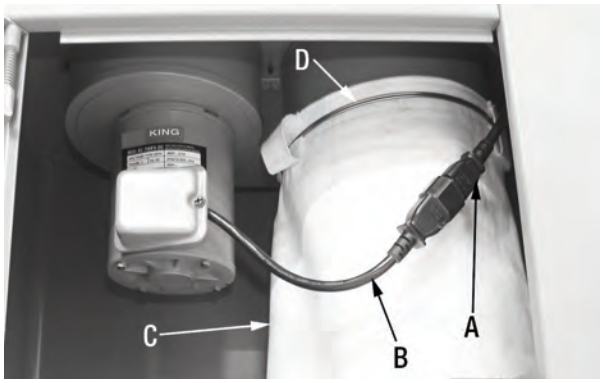


Figure 6

INSTALLING CABINET STAND DOOR KNOB

1. Install the cabinet stand door knob (A) Fig.7 and the door bolt (B) to the door as shown using a 17mm open end wrench.

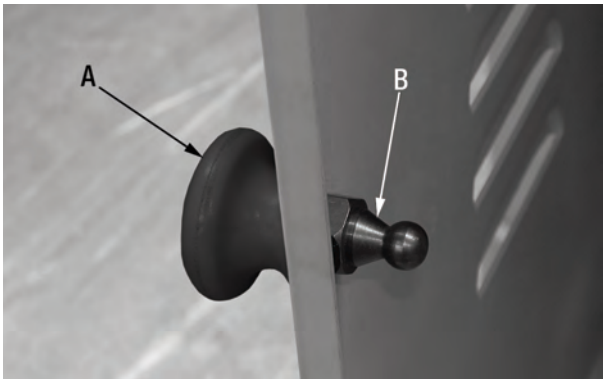


Figure 7

INSTALLING 4" DUST CHUTE (KC-790FX ONLY) TO CABINET STAND

1. Remove the 4 hex. nuts (A) Fig.8 from the left side of the cabinet stand, keep the 4 screws (B) in place on the inside of the cabinet stand.

2. Install the 4" dust chute (C) onto the 4 screws (B) and secure it to the cabinet stand with the 4 hex. nuts (A) removed previously.

WARNING! The 4" diameter dust chute allows for connection to a dust collector, do not use this Belt and Disc Sander without an appropriate dust collection system. Failure to follow this warning could lead to equipment malfunction and dangerous situations.

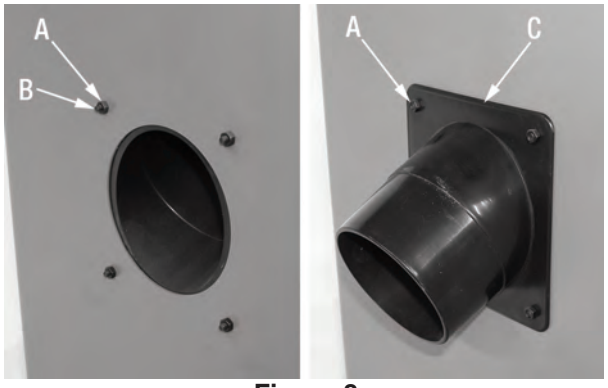


Figure 8

ASSEMBLY & ADJUSTMENTS

INSTALLING SANDING BELT DUST COLLECTION HOSE

1. Position two wire clamps (A) Fig. 9 over both ends of the dust collection hose (B).

2. Slide one end of the dust collection hose over the sanding belt dust chute (C), tighten the wire clamp screw to secure it in place.

3. Slide one other end of the dust collection hose over the sander base dust chute (D), tighten the wire clamp screw to secure it in place.

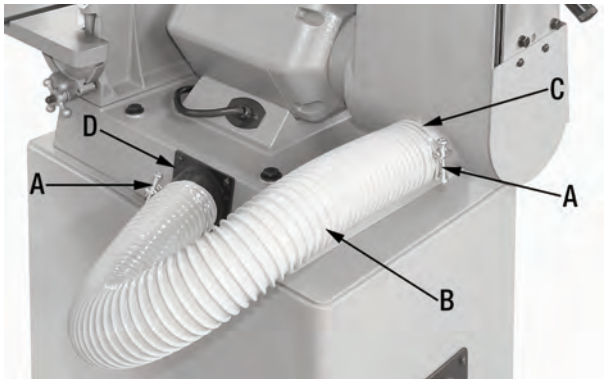


Figure 9

INSTALLING AND ADJUSTING MITER GAUGE

The miter gauge (A) Fig.10 can be installed in both T-slots of the sanding belt table and the sanding disc table as shown. It should be used as often as possible to provide workpiece support during sanding operations. To adjust miter gauge:

1. Loosen lock handle (B) Fig.10.

2. Rotate the miter gauge body (A) to the desired angle and retighten lock handle.

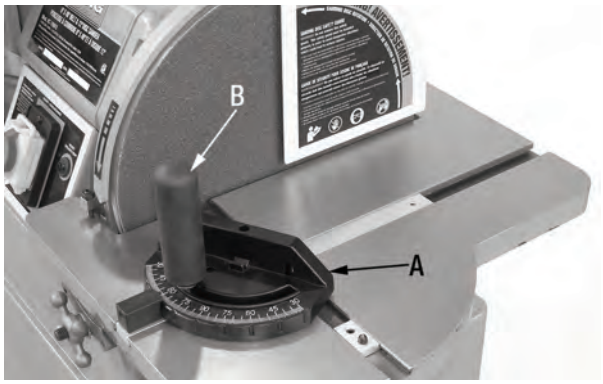


Figure 10

INSTALLING AND ADJUSTING CENTRE POINT

A centre point (A) Fig.11 is provided to allow sanding of round workpieces. The centre point gets installed in the small T-slot perpendicular to the sanding disc. The centre point gets positioned according to the radius of your round workpiece. If your round workpiece has a diameter of 8", the centre point pin (D) must be positioned 4" away from the sanding disc.

1. Slide the centre point assembly into the small T-slot (B) perpendicular to the sanding disc table.

2. Once positioned in the correct position, secure the centre point by tightening the set screw (C).

3. Position the centre of your round workpiece on the centre point pin (D).

4. Turn on the sander and manually rotate the round workpiece.

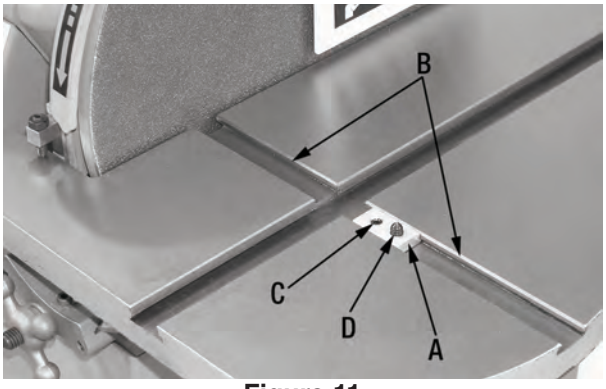


Figure 11

ADJUSTING SANDING BELT TABLE AND 45°/90° BEVEL STOPS

To adjust the angle of the sanding belt table:

1. Loosen spring loaded handle (A) Fig.12.

2. Tilt the sanding belt table (B) to the desired angle, use the scale and pointer (C) as a guide to set the desired angle.

3. Retighten spring loaded handle once adjustment is done.

Figure 12

ADJUSTMENTS

ADJUSTING SANDING BELT TABLE AND 45º/90º BEVEL STOPS continued...

To adjust the 45º & 90º bevel stops of the sanding belt table:

1. Loosen spring loaded handle (A) Fig.13 and raise the sanding belt table until the table is stopped by the 90º bevel stop screw (B). Retighten spring loaded handle.

2. Place a square (C) on the sanding belt table and up against the sanding belt. Make sure the sanding belt table is set perfectly at a 90º angle.

3. If the sanding belt table is not set at a perfect 90º angle, an adjustment can be made. Loosen spring loaded handle (A), and adjust table to a perfect 90º angle.

4. Loosen 90º bevel stop hex. nut (D) and adjust the set screw (B) in or out until it rests againt the stop shaft (E). Retighten hex. nut (D).

5. To verify and adjust the 45º bevel stop, lower the table as far as possible until the table is stopped by the 45º bevel stop screw (F). Use a combination square instead to verify the table angle. If an adjustment is needed, loosen 45º bevel stop hex. nut (G) and adjust the set screw (F) in or out until it rests againt the stop shaft (E). Retighten hex. nut (G).

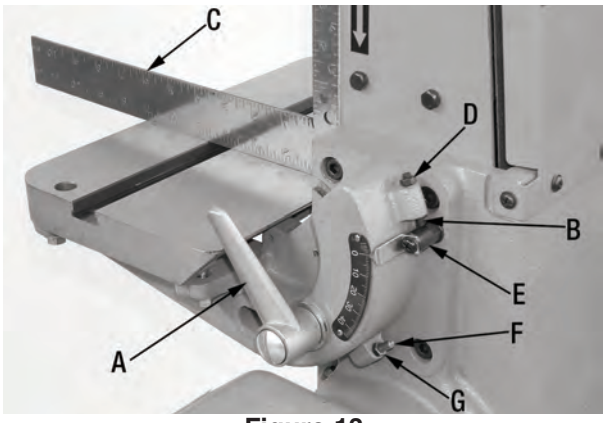


Figure 13

ADJUSTING SANDING DISC TABLE AND 90º BEVEL STOP

To adjust the angle of the sanding disc table:

1. Loosen lock knobs (A) Fig.14 on both sides of the sanding disc table.

2. Tilt the sanding disc table (B) to the desired angle, use the scale and pointer (C) as a guide to set the desired angle.

3. Retighten lock knobs once adjustment is done.

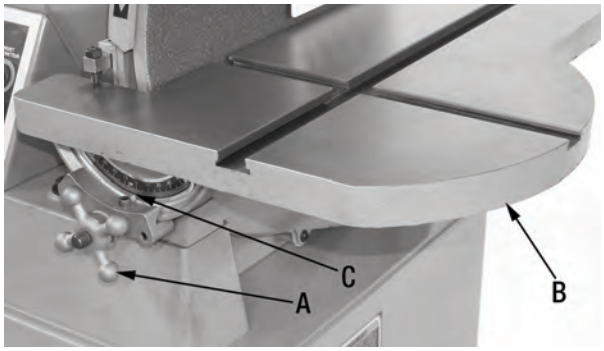


Figure 14

To adjust the 90º bevel stop of the sanding disc table:

1. Place a square (A) Fig.15 on the sanding disc table and up against the sanding disc. Make sure the sanding disc table is set perfectly at a 90º angle.

2. If the sanding disc table is not set at a perfect 90º angle, an adjustment can be made. Loosen lock knobs (B), and adjust table to a perfect 90º angle.

3. Loosen 90º bevel stop hex. nut (C) and adjust the set screw (D) in or out until it rests againt the sanding disc table (E). Retighten hex. nut (C).

4. Readjust the angle pointer (F) to indicate 0º.

Note: The 90º bevel stop can be pivoted out of the way to allow tilting the sanding disc table downwards.

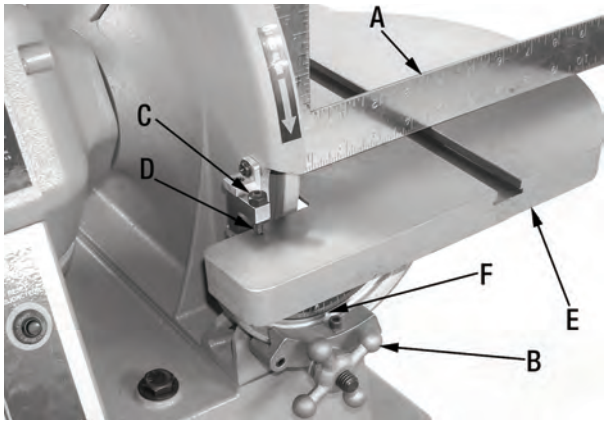


Figure 15

INSTALLING & ADJUSTING WORK STOP

When operating the sanding belt in the horizontal position, the sanding belt table can be removed and replaced by a work stop.

1. Loosen and remove the sanding belt table lock handle and washer (A) Fig.16. Then remove the entire sanding belt table as shown.

2. The threaded stud (B) Fig.16 is installed for sanding belt table installation, the shorter end of the stud is threaded into the machine. But to install the work stop, this threaded stud must be removed and flipped around so that the longer end of the stud is threaded into the machine. Using a wrench on the flat on the stud, remove stud and reinstall it so that the longer end of the stud is threaded into the machine. See Fig.17.

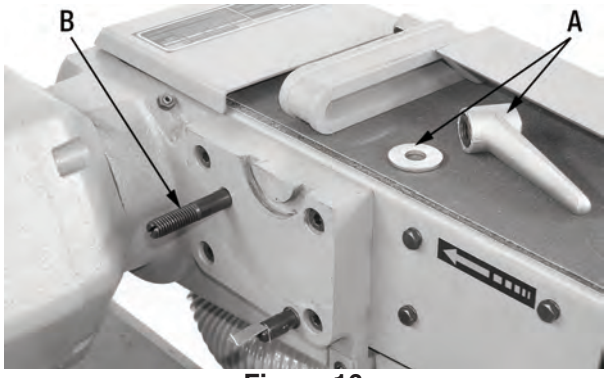


Figure 16

ADJUSTMENTS & OPERATION

INSTALLING & ADJUSTING WORK STOP continued...

3. Assemble the work stop (A) Fig.17 and the work stop support (B) using the large nut (C) as shown, make sure the thin part of the work stop is closest to the sanding belt.

4. Position the work stop support onto the threaded stud (D).

5. Reinstall washer and loosely tighten spring loaded handle (E).

6. Adjust the position of the work stop, make sure it clears the sanding belt (approx. 2-3mm clearance), then tighten spring loaded handle.

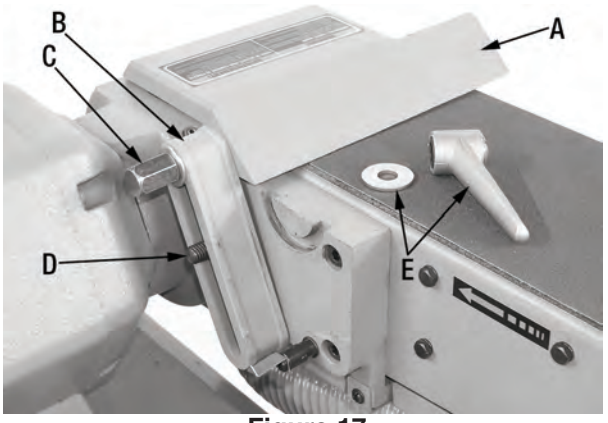


Figure 17

ADJUSTING SANDING BELT FROM VERTICAL TO HORIZONTAL POSITION

To change the sanding belt from vertical to horizontal position:

1. Loosen hex. nut (A) Fig.18, then loosen set screw (B).

2. Lower the sanding belt down to the horizontal position.

3. Retighten set screw (B) and then retighten hex. nut (A).

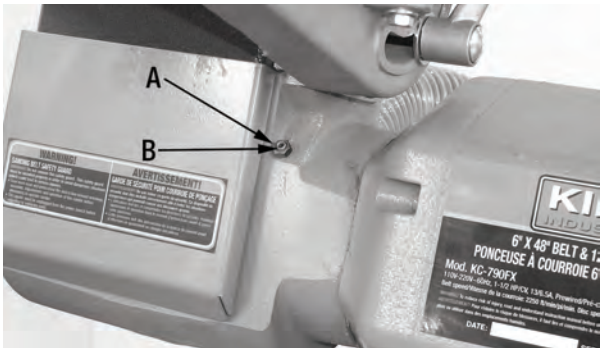


Figure 18

OPERATION

DISC SANDING

Warning! Always make sure the sander is unplugged prior to attempting any installation or changing of parts and accessories.

When sanding, always position your workpiece on the downward, rotating side (left side) of the sanding disc. Sanding on the right side of the sanding disc, upward rotating side is dangerous, as your workpiece cannot be controlled and 'kick-back' may occur - the wood being forced up and out of your hands.

Use the miter gauge for added control of the workpiece during sanding. The miter gauge can also be set to various degree angles for maintaining accurate angles when sanding small or multiple parts.

Do not force the workpiece into the sanding disc. Sand using light pressure, move your workpiece slightly left and right on the disc, keeping to the left-of-center, downward side. This will help prevent resin or debris from building up on one area of the disc, and also helps to prevent burning of the sanded surface from excessive abrasive-action heat build-up.

BELT SANDING

Warning! Always make sure the sander is unplugged prior to attempting any installation or changing of parts and accessories.

Depending on what type of sanding that you will be doing, set the sanding belt table to the proper angle using a square or a protractor.

Use the miter gauge when convenient for added control of the workpiece during sanding. The miter gauge can also be set to various degree angles for maintaining accurate angles when sanding small or multiple parts.

Do not force the workpiece into the sanding belt . Sand using light pressure. Move your workpiece slightly left and right on the belt. This will help prevent resin or debris from building up on one area of the belt, and also helps to prevent burning of the sanded surface from excessive abrasive-action heat build-up.

MAINTENANCE

REPLACING SANDING BELT

The sanding belt should be replaced when it becomes worn out as follows:

1. Loosen the 2 lock knobs (A) Fig.19 which secure the upper belt safety guard (B), then lift and remove the upper belt safety guard.
2. Loosen and remove the 2 pan head screws (C) Fig.19 which secure the lower belt safety guard (D), then remove the lower belt safety guard.
3. Raise the belt tension quick release lever (E) Fig.19 to release the tension on the sanding belt. Remove sanding belt.
4. Reinstall a new sanding belt in the reverse order. Make sure you pay attention to the direction of rotation of the belt, as indicated on the inside of the belt. Belt life will be increased if installed in the correct direction.

Replacement sanding belts listed below are available as optional accessories, contact your nearest King Canada distributor for more information.

Model	Size	Grit	Qty
SB-648-K-60	6” x 48”	60	2
SB-648-K-80	6” x 48”	80	2
SB-648-K-100	6” x 48”	100	2
SB-648-K-120	6” x 48”	120	2

Note: After changing the sanding belt, it is highly recommended to verify and adjust the sanding belt tracking before starting a sanding operation. See section below for more information.

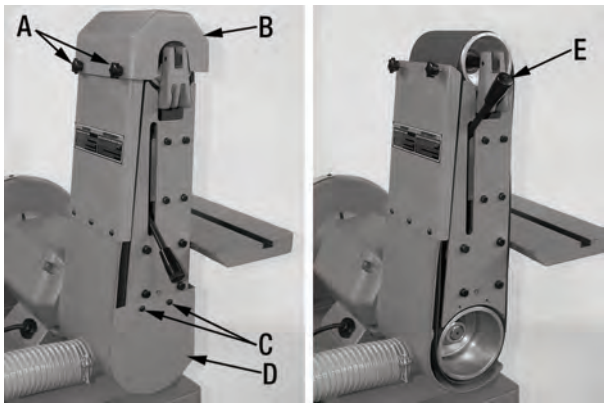


Figure 19

SANDING BELT TRACKING ADJUSTMENT

Proper sanding belt tracking can extend the life of the sanding belt and will prevent the sanding belt from slipping off the rollers. The ideal adjustment is having the sanding belt run perfectly straight between the rollers. Sanding belt tracking is done as follows:

1. Manually turn the sanding belt by hand and observe the tracking (alignment) of the sanding belt as it turns. If it turns straight no adjustment is needed.
2. If an adjustment is needed, loosen hex. nut (A) Fig.20.
3. Turn tracking adjustment knob (B) in small increments at a time. Turn knob clockwise if the belt tracks towards the right. Turn knob counterclockwise if the belt tracks towards the left.
4. Verify your adjustment, turn the sander on for a few seconds and check sanding belt tracking. Adjust further if needed until the sanding belt runs perfectly straight between the rollers. Retighten hex. nut (A) Fig.20.

Figure 20

REPLACING SANDING DISC

The sanding disc should be replaced when it becomes worn out as follows:

1. Remove the 3 pan head screws (A) Fig.21 then remove the safety guard (B).
2. Peel the sanding disc (A) Fig.22 off the sanding wheel. Remove the peel away backing on the back of the new adhesive sanding disc and carefully stick it onto the sanding wheel. Rotate wheel half a turn and stick the other half of the sanding disc.
3. Reinstall the sanding disc safety guard (B) Fig.21.

Replacement sanding discs listed below are available as optional accessories, contact your nearest King Canada distributor for more information.

Model	Size	Grit	Qty
SD-12-60	12”	60	1
SD-12-80	12”	80	1
SD-12-100	12”	100	1
SD-12-120	12”	120	1

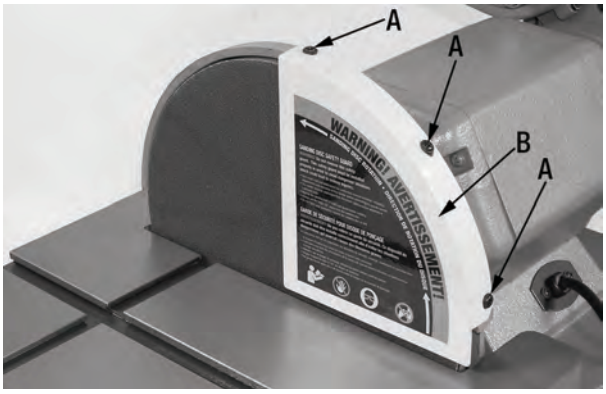


Figure 21

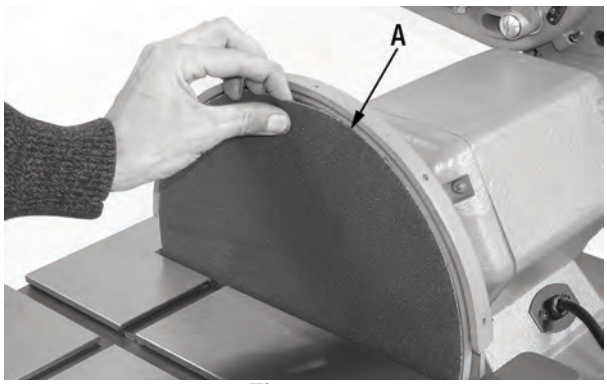


Figure 22

MAINTENANCE

CLEANING THE DUST COLLECTOR BAG (KC-790FX-DC ONLY)

Periodically the dust collector bag (A) Fig.23 must be checked, emptied and cleaned as follows:

1. Loosen the wire clamp (B) Fig.23 using a screwdriver, loosen just enough to remove the dust collector bag (A).

2. Empty the bag of its contents, make sure you follow all local safety codes for waste disposal.

3. If needed, clean the bag by lightly tapping it to dislodge any build-up of debris. if the bag seems too worn to use again, it is recommended to replace the bag.

4. Reinstall bag and wire clamp.

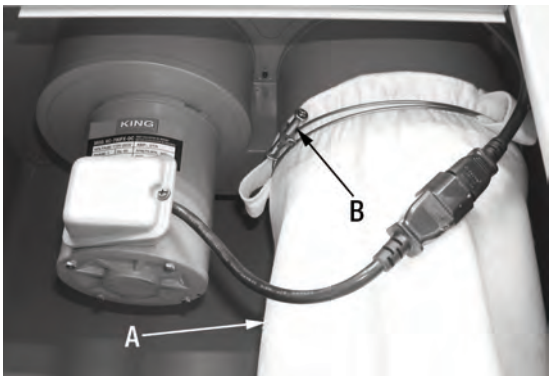


Figure 23

WARNING! The Belt and Disc Sander with Built-in Dust Collector (model KC-790FX-DC) should not be used for any metal sanding operations. Hot metal and sparks generated by sanding metal will increase the risk of serious fire and/or damage to the dust collector system. Metal sanding should be performed using a Metal Sander connected to a Metal Dust Collector.

WARNING: For your own safely, turn switch "OFF" and remove plug from power source outlet before adjusting, maintaining, or lubricating your belt and disc sander.

WARNING: To avoid electrocution or fire, any repair to electrical system should be done by qualified service technicians. Unit must be reassembled exactly to factory specifications.

LUBRICATION

The ball bearings in this machine are packed with grease at the factory. They require no further lubrication. All other moving parts should be sprayed with a liquid lubricant to ensure smooth operation.

Before each use

1. Check the power cord for any damage.
2. Check sanding belts and discs for damage or wear.
3. Check all guards and hardware to make sure they are secure.
4. Check all moving parts for alignment and binding issues.

Inspect regularly

1. Dress/clean sanding surfaces for best abrasive action.
2. Replace sanding belts or discs when worn or damaged.
3. Clean and vacuum dust found on the sander.
4. Keep tables free of rust. Apply coat of paste wax or silicon spray.

TROUBLESHOOTING

TROUBLE	PROBABLE CAUSE	SOLUTION
Motor will not run.	1. Defective ON-OFF switch. Defective switch cord. Defective switch box. 2. Burned out motor.	1. Replace defective parts before using sander again. 2. Any attempt to repair this motor may create a hazard unless repair is done by a qualified service technician.
Machine slows down when sanding.	1. Applying too much pressure to workpiece.	1. Ease up on the pressure.
Belt runs off rollers.	1. Not tracking properly.	1. Adjust tracking.
Wood burns while sanding.	1. Sanding disc or belt is glazed with sap.	1. Replace sanding disc or belt.