

6" BELT AND 9" DISC SANDER
INSTRUCTION MANUAL



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GENERAL SAFETY RULES

WARNING

"Read All Instruction" Failure to follow the safety rules listed below and other basic safety precaution may result in serious personal injury.

WORK AREA

Keep children away. All visitors should be kept safe distance from work area.

1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
2. MAKE WORKSHOP CHILD PROOF with padlocks, master switches, or by removing starter keys.
3. AVOID DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet location, or expose them to rain. Keep work area well lit.

PERSONAL SAFETY

1. WEAR PROPER APPAREL. No loose clothing, gloves, neckties, rings bracelets, or other jewelry to get caught in moving parts. Nonslip footwear is recommended, Wear protective hair covering to contain long hair.
2. ALWAYS USE SAFETY GOGGLES. Common eyeglasses only have impact resistant lenses, they are NOT safety glasses.
3. DISCONNECT TOOLS before servicing; when changing accessories such as sanding belts.
4. KEEP GUARDS IN PLACE and in working order.
5. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
6. DONT OVERREACH. Keep proper footing and balance at all times.
7. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.
8. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
9. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
10. CHECK DAMAGE PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function, check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

GENERAL SAFETY RULES

TOOL USE

1. **DON'T FORCE TOOL.** Don't force tool or attachment to do a job for which it was not designed.
2. **USE RIGHT TOOL.** It will do the job better and safer at the rate for which it was designed.
3. **SECURE WORK.** Use clamps or vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.
4. **NEVER LEAVE TOOL RUNNING UNATTENDED TURN POWER OFF.** Don't leave tool until it comes to a complete stop.

TOOL CARE

1. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories.
2. **DO NOT ALTER OR MISUSE TOOL.** These tools are precision built. Any alteration or modification not specified is misuse and may result in dangerous condition.
3. **AVOID GASEOUS AREAS.** Do not operate electric tools in a gaseous or explosive atmosphere. Motors in these tools normally spark and may result in a dangerous condition.

WARNING

Before connecting the tool to a power source (receptacle, outlet, ETC) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user as well as damage to the tool. If in doubt . **DO NOT PLUG IN THE TOOL.** Using a power source with a voltage less than the nameplate rating is harmful to the motor.

ADDITIONAL SAFETY RULES

THINK SAFETY

SAFETY IS A COMBINATION OF OPERATOR COMMON SENSE AND ALERTNESS AT ALL TIMES WHEN THE BELT SANDER IS BEING USED.

WARNING Do not allow familiarity (gained from frequent use of your belt sander) to become commonplace. Always remember that a careless fraction of a second is sufficient to inflict severe injury.

WARNING The operation of any power tool can result in foreign objects being thrown into the eyes which can result in severe eye damage. Always wear safety goggles before commencing power tool operation.



LOCATION

Use the belt sander in a well lit area and on a level surface, clean and smooth enough to reduce the risk of trips and falls. Use it where neither the operator nor the casual observer is forced to stand in line with a potential kickback.

PROTECTION : EYES, HANDS, FACE, EARS AND BODY.

WARNING TO AVOID BEING PULLED INTO THE BELTS

DO NOT WEAR : LOOSE FITTING GLOVES
NECKTIE
LOOSE CLOTHING
JEWELRY

DO TIE BACK LONG HAIR
ROLL LONG SLEEVES ABOVE ELBOWS

WARNING Never place your fingers in a position where they could contact the sandpaper. If the workpiece should unexpectedly shift or your hand should slip.

WARNING If any part of your belt sander is missing, malfunctioning, has been damaged or broken ... such as the motor switch or other operating control, a safety device or the power cord ... cease operating immediately until the particular part is properly repaired or replace.

MOTOR SPECIFICATIONS AND ELECTRICAL REQUIREMENTS

MOTOR SPECIFICATIONS

This belt sander is designed to use a 1720 RPM motor only. Do not use any motor that runs faster than 1720 RPM. It is wired for operation on 110-120 volts, 60 Hz alternating current.

WARNING To avoid injury from unexpected start-up, do not use blower or washing machine motors or any motor with an automatic reset overload protector.

CONNECTING TO A POWER SOURCE

This machine must be grounded while in use to protect the operator from electric shock.

Plug power cord into a 110-120V properly grounded type outlet protected by a 15-amp dual element time delay fuse or circuit breaker.

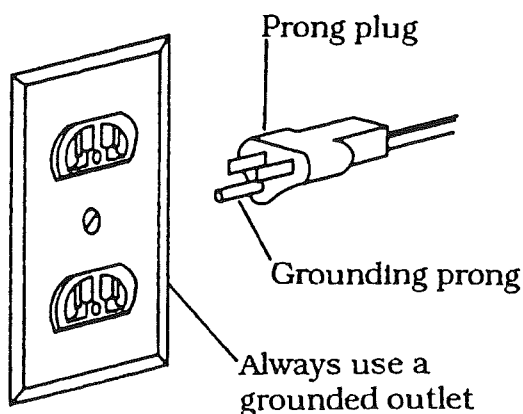
Not all outlets are properly grounded. If you are not sure that your outlet, as picture below, is properly grounded, have it checked by a qualified electrician.

DANGER To avoid electric shock, do not touch the metal prongs on the plug when installing or removing the plug to or from the outlet.

Failure to properly ground this power tool can cause electrocution or serious shock, particularly when used near metal plumbing or other metal objects. If shocked, your reaction could cause your hands to hit the cutting tool.

WARNING If power cord is worn or cut, or damaged in any way, have it replaced immediately to avoid shock or fire hazard.

Your unit is for use on 120 volts; it has a plug that looks like the one below.



MOTOR SPECIFICATIONS AND ELECTRICAL REQUIREMENTS

This power tool is equipped with a 3-conductor cord and grounding type plug. The ground conductor has a green jacket and attached to the tool housing at one end and to the ground prong in the attachment plug at the other end.

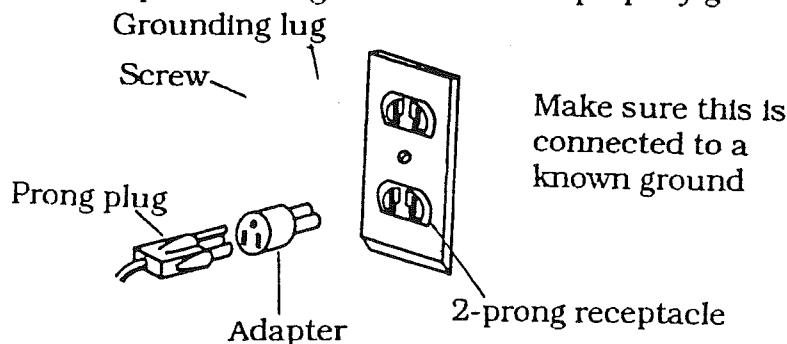
This plug requires a mating 3-conductor grounded type outlet as pictured.

If the outlet you are planning to use for this power tool is of the two-prong type. DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER. Use an adapter as shown and always connect the grounding lug to known ground.

It is recommended that you have a qualified electrician replace the TWO-prong outlet with a properly grounded THREE-prong outlet.

An adapter as shown below is available for connecting plugs to 2-prong receptacles.

WARNING The green grounding lug extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.



NOTE : The adapter illustrated is for use only if you already have a properly grounded 2-prong receptacle. Adapter is not allowed in Canada by Canadian Electrical Code.

The use of any extension cord will cause some loss of power. To keep this to a minimum and to prevent overheating and motor burn-out, use the table below to determine the minimum wire size (A.W.G.) for an extension cord. Use only 3-wire extension cords which have 3-prong grounding type plugs and 3-pole receptacles which accept the tool's plug.

Extension Cord Length	Wire Size A.W.G.
0 - 25 Feet	16
26 - 50 Feet	14
51 - 100 Feet	12

GETTING TO KNOW YOUR SANDER

1. DISC GUARD

Covers disk and pulleys during operation of sander.

2. BACK STOP

Supports workpiece during operation.

3. BELT TENSION KNOB

Adjusts sanding belt tension.

4. WORK TABLE

Provides working surface to support workpiece.

5. TOP OF STAND

Supports sander body.

6. TABLE ANGLE ADJUSTMENT KNOB

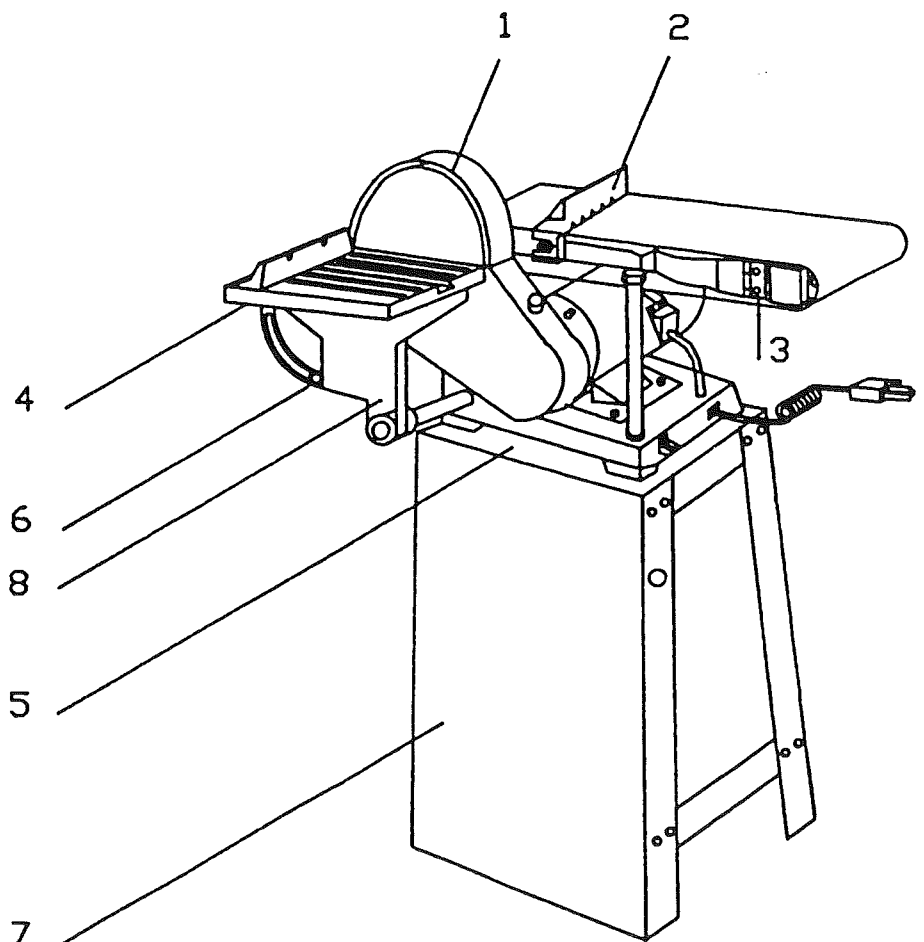
Adjusts work table angle.

7. STAND

Supports sander, for additional safety. Holes are provided in stand to mount sander to a bench.

8. TABLE SUPPORT BRACKET

Supports work table.



ASSEMBLY INSTRUCTION

UNPACKING AND CHECKING CONTENTS

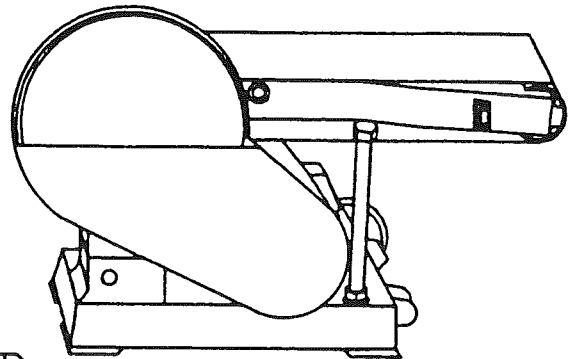
WARNING

- 1) To avoid injury from unexpected starting or electrical shock. Do not plug the power cord into a source of power. This cord must remain unplugged whenever you are working on the sander.
- 2) Unpacking and checking contents. Separate all "loose parts" from packaging materials and check each item with "Table of loose parts" to make sure all items are accounted for before discarding any packing material. If any parts are missing, do not attempt to assemble sander, plug in the power cord, or turn the switch on, until missing parts are obtained and are installed correctly.
- 3) To avoid fire or toxic reaction. never use gasoline, naphtha or similar highly volatile solvents.
- 4) Apply a coat of paste wax to the table, base, to prevent rust. Wipe all parts thoroughly with a clean dry cloth.

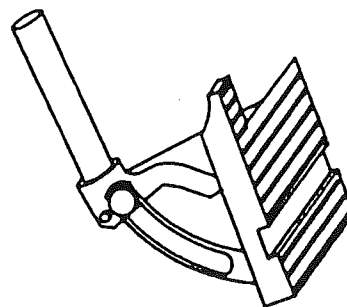
TABLE OF CONTENTS IN BOX

A. Body Assembly -----	1
B. Work Table Assembly -----	1
C. Mitre Gauge -----	1
D. Stand Leg -----	2
E. Stand Bracket -----	2
F. Top of Stand -----	1
G. Backstop -----	1
H. Loose Parts in bag -----	1

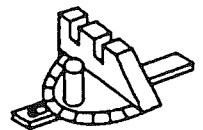
A.



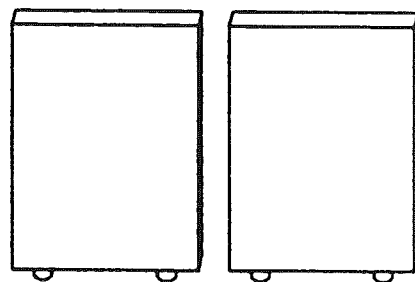
B.



C.



D.

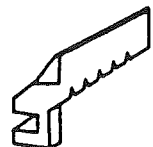
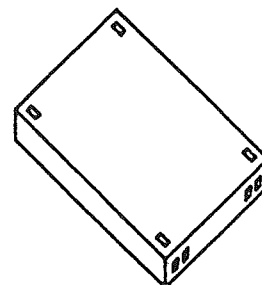


E.



G.

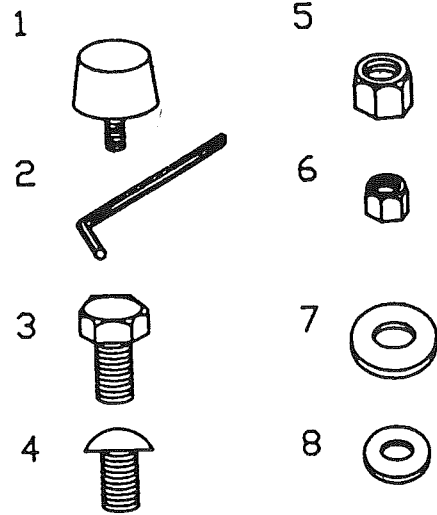
F.



ASSEMBLY INSTRUCTION

TABLE OF LOOSE PARTS

1. Rubber Feet -----	4
2. Allen Wrench (4 MM) -----	1
3. Hex Bolt (5/16" x 1/2") -----	4
4. Carriage Bolt (5/16" x 1/2") -----	16
5. Hex Nut (5/16") -----	16
6. Hex Nut (3/16") -----	4
7. Washer (5/16") -----	4
8. Washer (3/16") -----	4

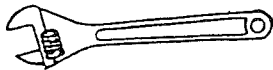


WARNING

For your own safety. Never connect plug to power source until all assembly steps are completed.

TOOLS NEEDED TO ASSEMBLE

6" or 8" Adjustable Wrench.



MOUNT RUBBER FEET TO STAND LEG

- 1) Locate four (4) Rubber Feet (1), four (4) Hex Nuts (6) and four (4) Washers (8) among loose parts in bag.
- 2) Place stand leg on the floor or bench with bottom face up (Figure 1).
- 3) Secure rubber feet to the legs by installing hex nuts & washers.
- 4) Tighten with adjustable wrench.

ASSEMBLY INSTRUCTION

ASSEMBLE STAND

- 1) Locate two (2) Stand Legs (D). Two (2) Stand Brackets (E).
- 2) Position two stand legs standing up on the floor or bench (Figure 1).
- 3) Locate eight (8) Carriage Bolts (4) and eight (8) Hex Nuts (5) among loose parts in bag.
- 4) Secure stand bracket between two stand legs by installing hex bolts and nuts (Figure 2).
- 5) Tighten with adjustable wrench.
- 6) Locate one (1) Top of Stand (F), eight (8) Carriage Bolts (4) and eight (8) Hex Nuts (5) among loose parts in bag.
- 7) Place top of stand over the stand leg and align the hole of top of stand with the hole of stand leg (Figure 3).
- 8) Install the carriage bolt through the stand leg and top of stand and tighten with hex nut.

Figure 1

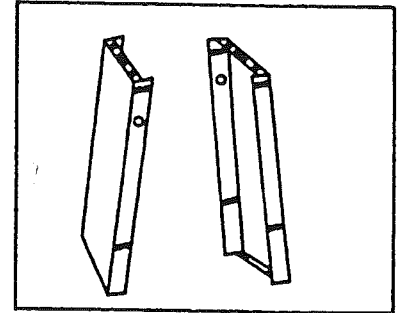


Figure 2

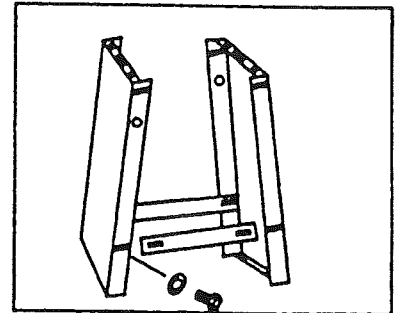
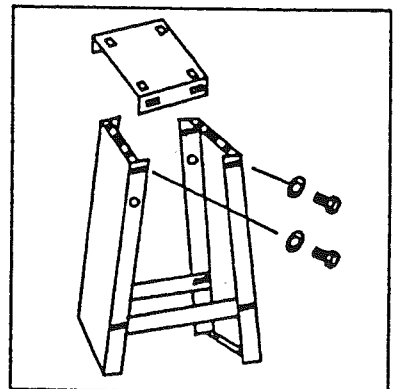


Figure 3



INSTALLING THE BODY ASSEMBLY

- 1) Remove protective polybag from body assembly and discard.
- 2) Put body assembly on the stand and align the threaded hole on the bottom of body assembly with the hole on the stand (Figure 1).
- 3) Locate four (4) Hex Bolts (3) and four (4) Washers (7) among loose parts in bag.
- 4) Install the hex bolt and washer through stand to the body and tighten with adjustable wrench (Figure 2).

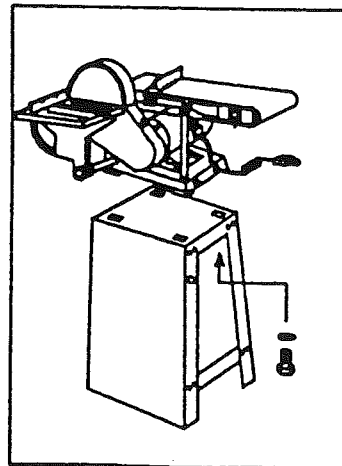


Figure 1

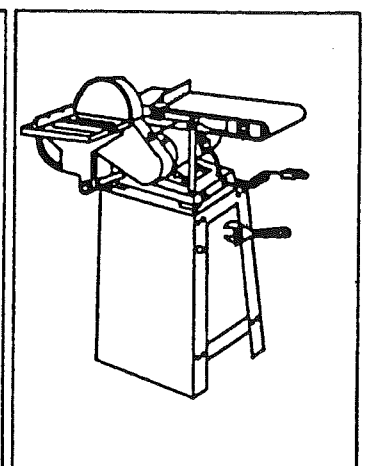


Figure 2

ASSEMBLY INSTRUCTION

INSTALLING THE WORK TABLE ASSEMBLY

- 1) Remove protective polybag from table assembly and discard.
- 2) Align the support bar of table assembly to the hole of body (under disk) (Figure 1).
- 3) Locate one (1) Allen Wrench (2) among loose parts in bag.
- 4) Slightly push support bar into hole until a 1/8" space is left between table and disk.
- 5) Tighten with allen wrench (Figure 2).

NOTE: YOU CAN ALSO INSTALL TABLE TO LEFT SIDE OF MACHINE IF BELT IS IN VERTICAL POSITION (Figure 3).

Figure 1

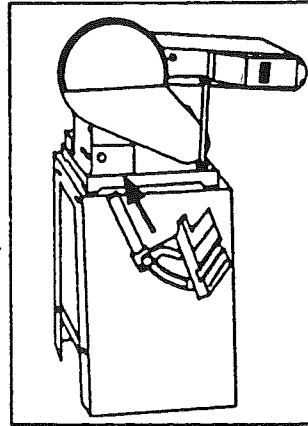


Figure 2

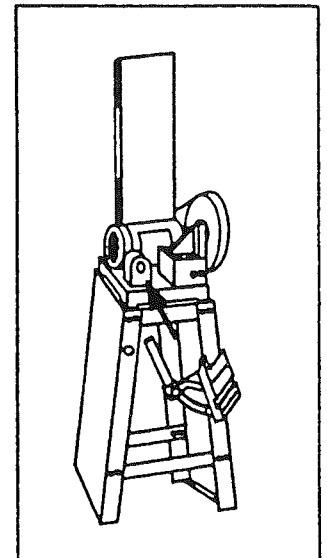
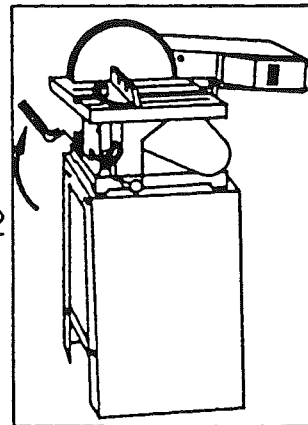


Figure 3

INSTALLING THE BACKSTOP

- 1) Locate one (1) Backstop (G).
- 2) Screw off the hex bolt and washer from the body (Figure 1).
- 3) Secure the backstop to the body by installing hex bolt and washer back to the body (Figure 2).
- 4) Tighten with adjustable wrench.

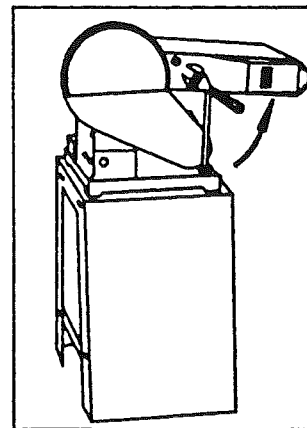


Figure 1

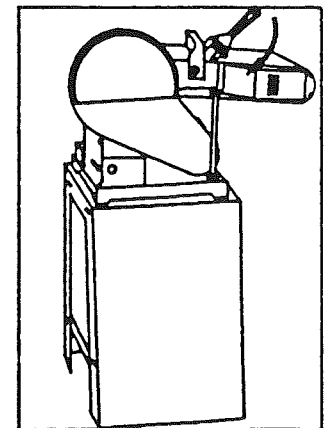


Figure 2

INSTALLING THE MITRE GAUGE

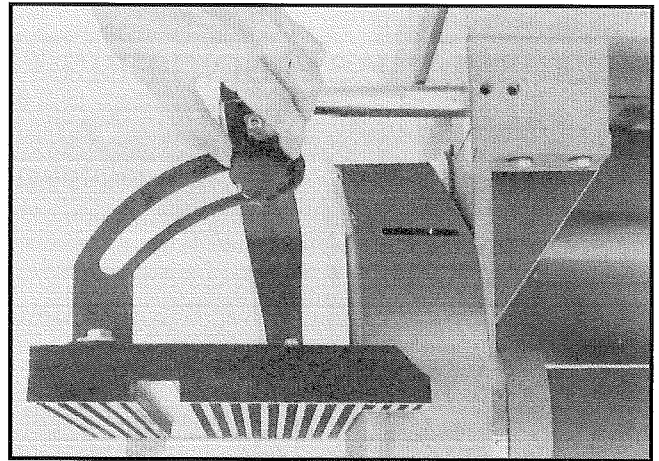
- 1) Locate Mitre Gauge (C).
- 2) Insert mitre gauge into the table .

OPERATING ADJUSTMENT

WARNING DISCONNECT YOUR SANDER FROM POWER SOURCE

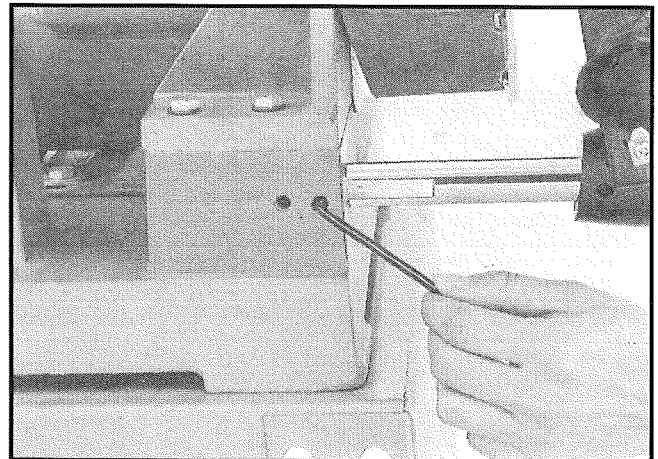
ADJUSTMENT OF TABLE FROM 0° - 45°

Loosen the knob and adjust the table until it reaches the scale you demand (varies from 0-45°) and tighten.



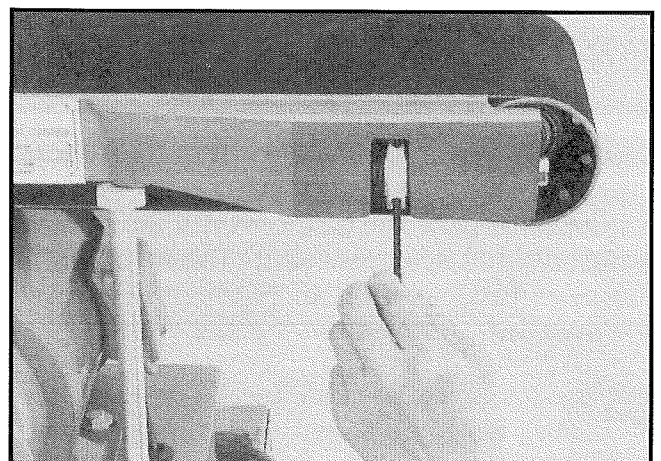
POSITIONING THE TABLE

When the belt is in vertical position, you can move the table to the front of the belt. First of all, loosen the screw and move to the position as in figure. Tighten the set screw but take notice on the 3mm space left in between the belt and the table.



TENSION ADJUSTMENT OF SANDING BELT

If you find that the sanding belt is too tight, too loose or not aligned properly at the center, use the allen wrench to adjust the adjustment knob to the proper tension you require. (figure)



OPERATING ADJUSTMENT

WARNING DISCONNECT YOUR SANDER FROM POWER SOURCE

REPLACING THE SANDING BELT

1. Use allen wrench to loosen the adjustment knob (as figure -1)
2. Loosen the belt and take it out.
3. Install new sanding belt (as figure -2).
4. Use allen wrench to adjust the adjustment knob to the proper tension you require. (as figure -1)

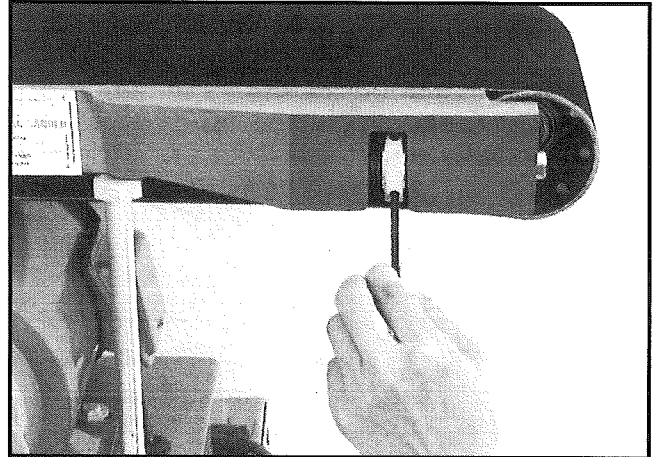


Figure 1

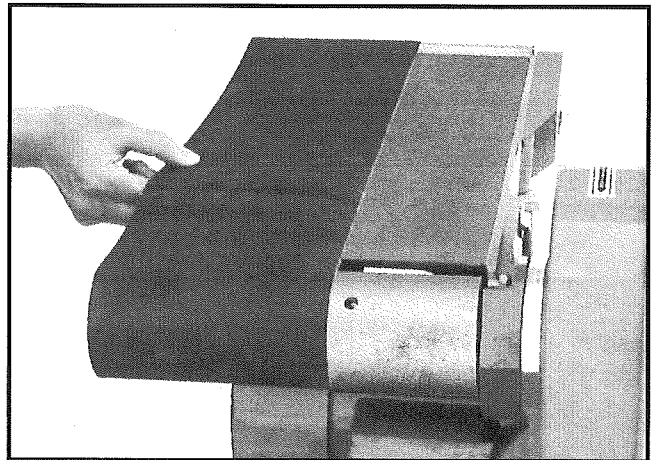
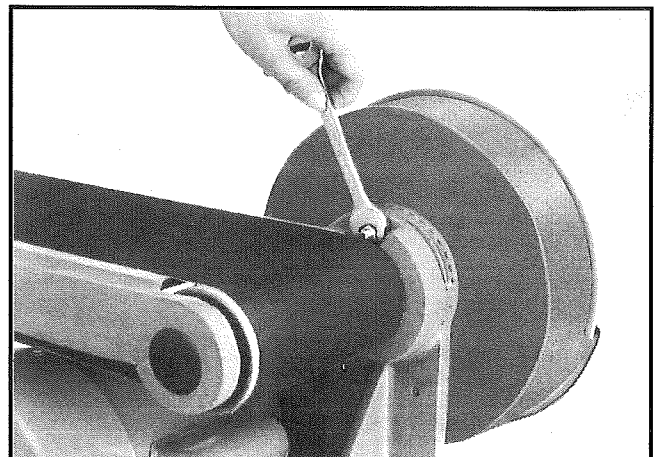


Figure 2

ADJUST SANDING BELT TO VERTICAL POSITION

Loosen the two nuts as shown in figure (only one nut can be seen. the other one is located at the bottom of the disc cover, follow the arrow instruction). After loosening the nuts, pull belt up in vertical position and tighten the nuts before continuing work.



OPERATING ADJUSTMENT

WARNING DISCONNECT YOUR SANDER FROM POWER SOURCE

REPLACING THE SANDING DISC AND V-BELT

1. Loosen the knob and open the disc cover as shown in figure - 1.
2. Tear off the old sanding paper, clean remaining glue from disc and put on the new sanding paper (figure -2).

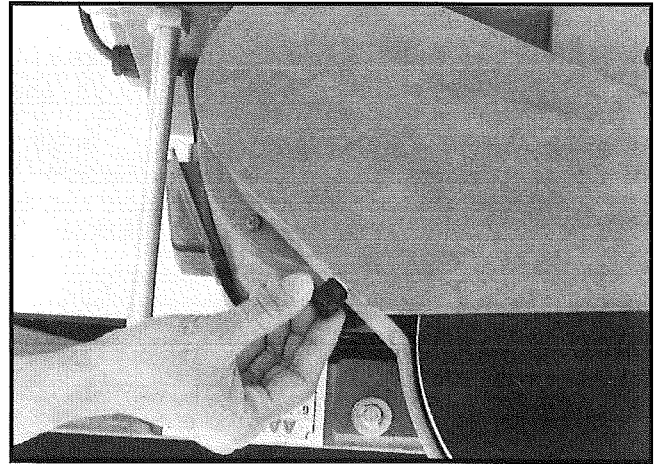


Figure 1

3. Insert the allen wrench (as shown in figure-3) in the rectangular window opened at the bottom of the disc cover.
4. Loosen the set screw inside and take off the sanding disc.

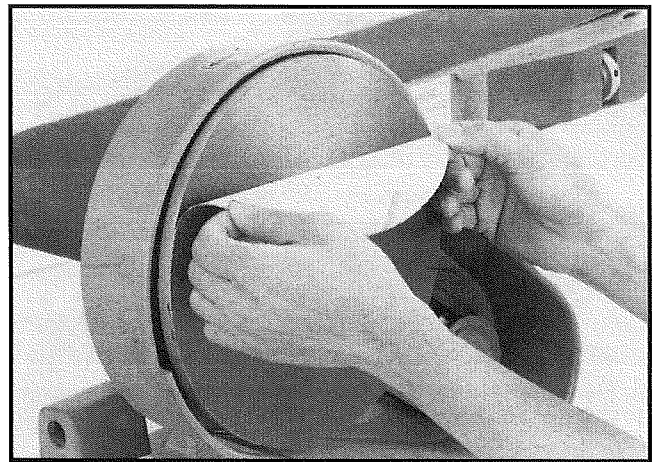


Figure 2

5. Take off V belt and replace a new one.
6. Install sanding disc back to the shaft.
7. Tighten set screw with allen wrench.

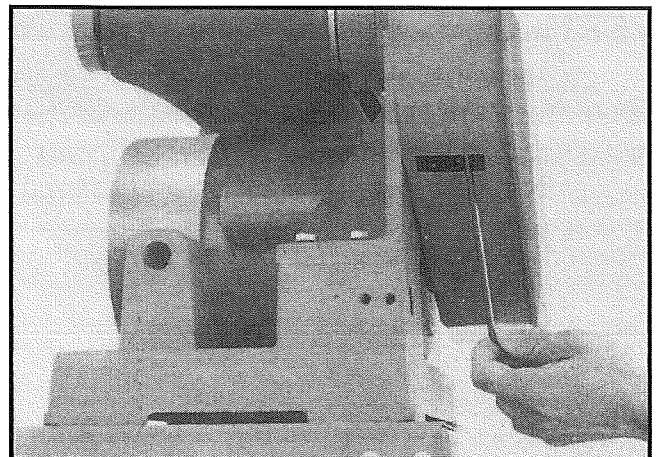


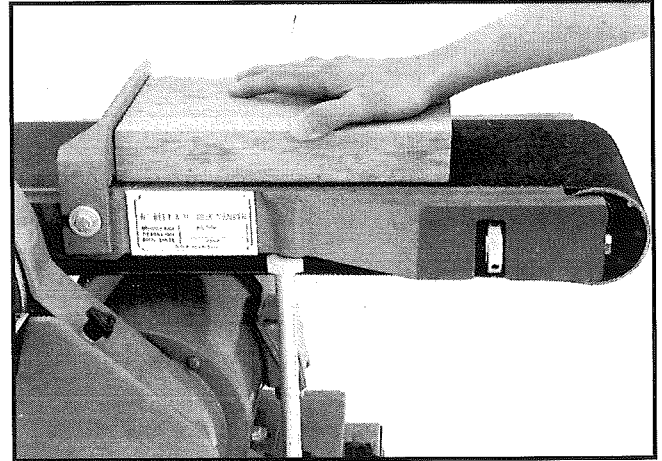
Figure 3

BASIC OPERATION

WARNING DISCONNECT YOUR SANDER FROM POWER SOURCE

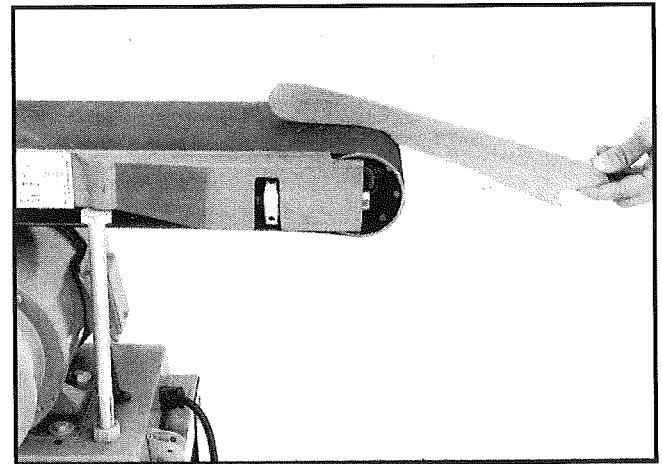
HORIZONTAL SANDING

Put your work piece on the belt and assist with the backstop to back up the work piece. When starting operation, beware the safety of your hands. Do not push too hard on the work piece for the belt works better without being forced. (see figure)



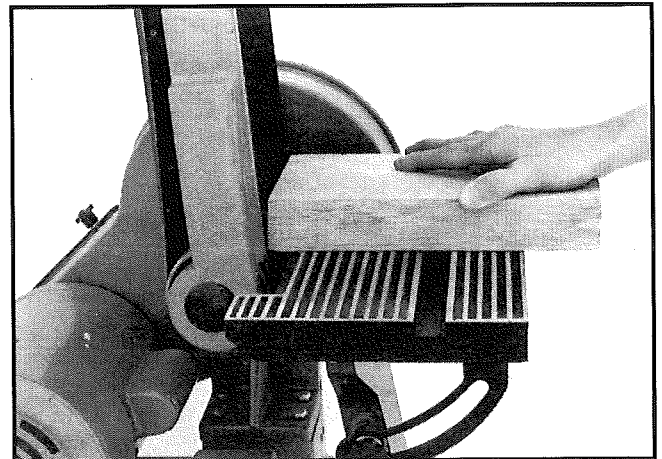
CURVE SANDING

Use the end of the belt to sand curves. (see figure)



VERTICAL SANDING

When the belt is in vertical position, use the backstop to hold the work piece or you can use exchanged reposition work table to hold workpiece. (see figure)

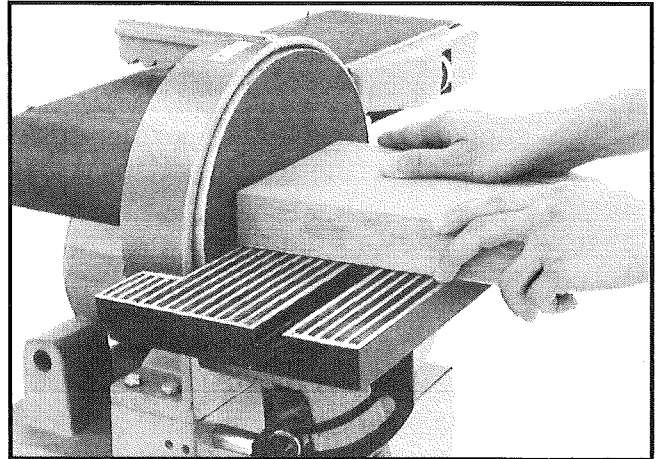


BASIC OPERATION

WARNING DISCONNECT YOUR SANDER FROM POWER SOURCE

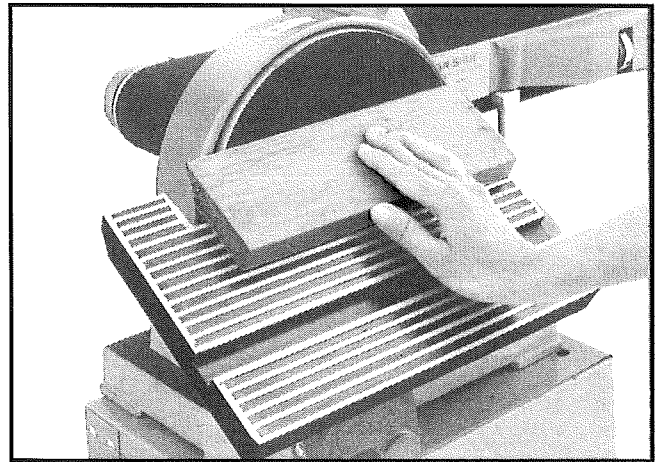
DISC SANDING

Put the work piece on the work table as shown in figure and start your abrasive work straightly. This is suitable for small area abrasive.



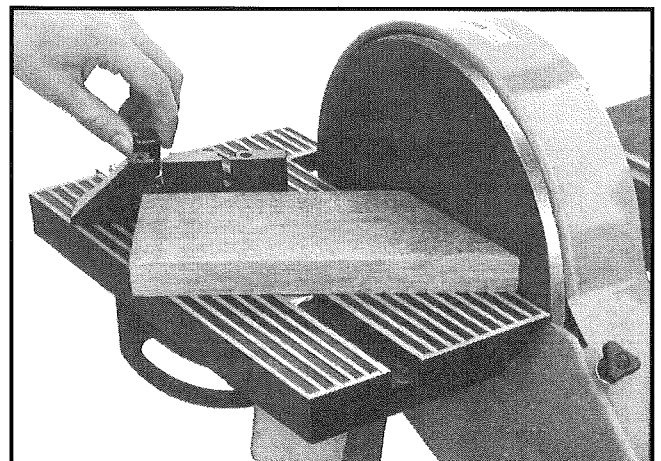
BEVEL SANDING FROM 0°-45° OF WORK TABLE

Your work table can do bevel sanding from 0°-45° as shown in figure. After adjustment remember to tighten the set screw (otherwise your security and precise sanding could be affected).



SWIVEL SANDING OF 0°-60° FROM LEFT TO RIGHT

Use the mitre gauge to obtain angle from 0°-60° (see figure). Remember to tighten knob after angle adjustment on the mitre gauge.



MOUNTING THE SANDER

WARNING DISCONNECT YOUR SANDER FROM POWER SOURCE

If sander is to be used in permanent position, it should be fastened securely to a firm supporting surface such as a stand or workbench.

When mounting sander to a workbench, holes should be drilled through supporting surface of workbench.

1. Each of four holes should be bolted securely using 3/16" hex bolt (sold separately), screw length should be 1-1/2" longer than the thickness of bench top.
2. Locate and mark where the sander is to be mounted.
3. Drill four (4) 1/4" diameter holes through workbench.
4. Place sander on workbench, aligning holes in stand with holes drilled in workbench.
5. Insert four bolts and tighten.

MAINTAINING YOUR SANDER

MAINTENANCE

WARNING For your own safety, turn power switch "OFF" and remove plug from the power source outlet before maintaining your sander frequently blow out any dust that may accumulate inside the motor.

WARNING To avoid shock or fire hazard, if the power cord is worn or cut, or damaged in any way, have it replaced immediately.

WARNING All repairs, electrical or mechanical should be attempted only by trained repairmen.

LUBRICATION

All of the ball bearings are packed with grease at the factory. They require no further lubrication.

TECHNICAL DATA

Table size	6-1/4" x 12"	disc size	9" dia.
Table tilting	0°45°	disc rotating speed	1720RPM
Belt size	6"x 48"	motor	3/4 HP
Belt tilting	0°90°	measurement	696mmx444mmx354mm
Belt speed	1400ft/min		

TROUBLE SHOOTING

WARNING Turn switch off and remove plug from outlet before trouble shooting.

TROUBLE	PROBLEM	REMEDY
Noisy operation	<ol style="list-style-type: none"> 1. Loose motor pulley 2. Loose disk pulley 3. Loose belt 4. Incorrect belt tension 	<ol style="list-style-type: none"> 1. Tighten set screw in pulley 2. Tighten set screw in pulley 3. Adjust belt 4. Adjust tension knob
Sander won't start	<ol style="list-style-type: none"> 1. Sander is not plugged in 2. Household circuit has blown fuse or open circuit break 3. Power cord is damaged 4. Motor burn out 5. Switch is not in "ON" position 6. Switch burn out 	<ol style="list-style-type: none"> 1. Plug power cord in outlet 2. Check circuit make sure is on 3. Replace power cord 4. Replace motor 5. Turn switch on 6. Replace switch
Belt slipping	<ol style="list-style-type: none"> 1. Loose tension 2. Using wrong size of belt 	<ol style="list-style-type: none"> 1. Adjust to proper tension 2. Use recommended size
Workpiece torn Loose from hand	<ol style="list-style-type: none"> 1. Not supported 2. Incorrect working angle 	<ol style="list-style-type: none"> 1. Support workpiece 2. Adjust work table or sanding belt

REPAIR PARTS LIST AND SCHEMATIC

REPLACEMENT PARTS

Replacement parts for this tool are available by placing an order, call Please have the following information ready.

1. Part number.
2. Purchase date.
3. Shipping address.

INDEX NO.	DESCRIPTION	QTY
1	Table	1
2	Sand belt 48"	1
3	Miter gauge	1
4	Table mount	2
5	Washer 3/16"	2
6	Pan screw 3/16"x 3/8"	3
7	Angle gauge	1
8	Washer 5/16"	13
9	Screw 5/16"x 1/2"	1
10	Pin	2
11	Table support bracket	1
12	Knob 5/16"x 5/8"	1
13	Pointer	1
14	Set screw 5/16"x 3/8"	11
15	Sand paper	1
16	Sand disc	1
17	V-belt A-25	1
18	Support bar	1
19	Pulley	1
20	Screw 5/16"x 3/8"	3
21	Spring washer 5/16"	9
22	Pulley cover	1
23	Screw 5/16"x 1-1/2"	2
24	Washer 3/16"	1
25	Knob 3/16"x 3/8"	1
26	Bracket	1
27	Ball bearing 6201zz	3
28	Retaining ring S-12	3
29	C-snap ring S35	1
30	Ball bearing 6202zz	1
31	Motor	1
32	Screw 5/16"x1"	5
33	Key 5x5x20	1
34	Tube	2
35	Set screw 5/16"x1/2"	2
36	Driving roller	1

REPAIR PARTS LIST AND SCHEMATIC

INDEX NO	DESCRIPTION	QTY
37	Nut 5/16"	6
38	Key 5x50	1
39	Driving roller shaft	1
40	Rubber cover	1
41	Back stop	1
42	Sand belt frame	1
43	Roller adjust bar	2
44	Spring pin 05	2
45	Idler roller	1
46	Adjust nut	2
47	Spring	2
48	Idler roller shaft	1
49	Support bolt 5/8"x9"	1
50	Screw 5/16"x1"	4
51	Nut 5/8"	1
52	Cord clamp	1
53	Base	1
54	Pulley	1
55	Retaining ring S-15	1
56	Hex wrench	1
57	Switch	1
58	Cord clamp	1
59	Power cord	1
60	Wire connector	2
61	Stand	2
62	Stand plate	1
63	Screw 5/16"x1/2"	16
64	Rubber	4
65	Washer 1/4"	8
66	Screw 1/4"x 3/8"	4
67	Nut 1/4"	4
68	Nut 5/16"	16
69	Frame	2
70	Washer 5/16"	4
71	Screw 5/16"x1/2"	4

REPAIR PARTS LIST AND SCHEMATIC

