

# **Instruction Manual**

## **12" Disc Sander**

SAVE THESE INSTRUCTIONS

## Important Safety Instructions (For All Tools)

**WARNING:** When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, shock, and personal injury, including the following:

### READ ALL INSTRUCTIONS

1. **KEEP GUARDS IN PLACE** and in working order.
2. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
4. **DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. **KEEP CHILDREN AWAY.** All visitors should be kept at a safe distance from work area.
6. **MAKE WORKSHOP KID PROOF** With padlocks, master switches, or by removing starter keys
7. **DON'T FORCE TOOL.** It will do the job better and be safer at the rate for which it was designed.
8. **USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.
9. **WEAR PROPER APPAREL.** No loose clothing, gloves, neckties, rings, brachelets, or other jewelry to get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
10. **ALWAYS WEAR SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses have only impact resistant lenses. They are NOT safety glasses.
11. **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.
12. **DON'T OVERREACH.** Keep proper footing and balance at all times.
13. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
14. **DISCONNECT TOOLS** before servicing; when changing accessories such as blades, bits, cutters, etc.
15. **REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in OFF position before plugging in.
16. **USE RECOMMENDED ACCESSORIES.** Consult the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.
17. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
18. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function-check for alignment of moving parts, binding of moving parts, breakage of parts mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
19. **DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
20. **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.
21. **DO NOT OPERATE ELECTRIC TOOLS NEAR FLAMMABLE LIQUIDS OR IN GASEOUS OR EXPLOSIVE ATMOSPHERES.** Motors in these tools may spark and ignite fumes.

**SAVE THESE INSTRUCTIONS**



## ADDITIONAL SAFETY RULES FOR THE DISC SANDER

1. Never stand or have an observer stand in line with the abrasive disc.
2. Work area should have adequate light and surrounding work space should be clear.
3. The disc sander is intended for indoor use only.
4. Always wear eye protection and during extended operation use ear protection.
5. Always avoid awkward hand positions, where a sudden slip could cause a hand to move into the abrasive disc.
6. Use the proper size and type of sanding disc for each operation.
7. Turn the machine OFF before removing scrap pieces from the table. Never turn the sander ON before clearing the tables or work surfaces of all objects (tools, wood scraps, etc.) except for the work piece and related feed or support devices for the operation planned.
8. Be certain the abrasive disc runs in the right direction before beginning work.
9. Hold work firmly so that it will not be pulled from your hands when finishing against the disc.
10. Feed material gradually. Do not force the machine to remove material faster than it was designed to sand.
11. Do not attempt to sand pieces too small to hold safely by hand.
12. When sanding a large workpiece, make sure it is properly supported at table height.
13. Never leave the machine work area with the power on, or before the machine has come to a complete stop.
14. If any part of the disc sander should break or be damaged, or any electrical component fail to perform properly, or if any part is missing, immediately shut off power switch, remove cord from power supply and replace damaged or missing part before resuming operation.
15. ALWAYS SUPPORT WORKPIECE WITH "BACKSTOP" OR WORKTABLE
16. MAINTAIN 1/16" MAXIMUM CLEARANCE BETWEEN TABLE AND SANDING DISC.
17. Use only the motor supplied with your sander.
18. FIRE CAUTION: This machine is not designed for heavy deburring operations. However when finishing ferrous metals, spark will be generated and could cause a fire. To prevent this possibility remove dust collecting apparatus. Remove all traces of wood dust that may have accumulated in and around the machine. Also, the mixing of ferrous and nonferrous metal dust can create a hazardous environment.
19. Use sander in a well ventilated area.

## GROUNDING

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

Do not modify the plug provided if it will not fit the outlet. Have the proper outlet installed by a qualified electrician.

## OPERATION

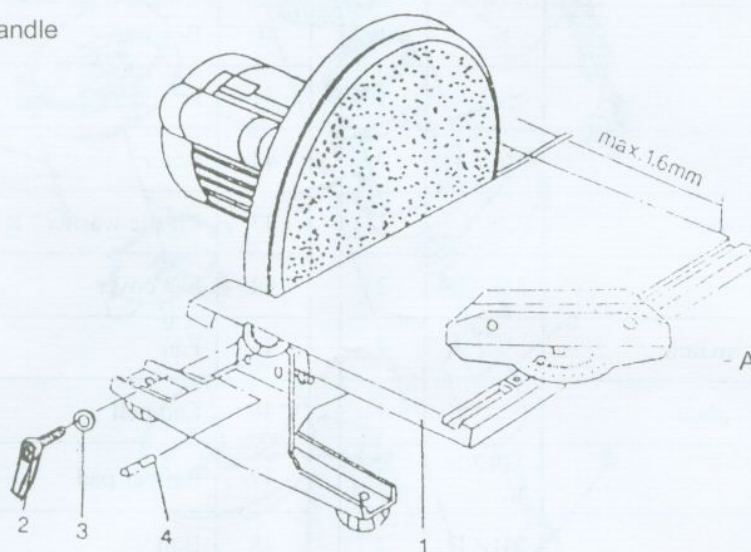
Be sure your power supply agrees with the name plate marking of Voltage and Frequency. A voltage decrease or more than 10% will cause a loss of power and overheating. All tools are factory tested. If this tool does not operate, check the power supply.

This product is made to the highest possible standards. Designed to facilitate the precision sanding of radial, curves, bevels and chamfers on wood, plastics, metals and ceramics. It is fully guaranteed and suitable for both industrial and D.I.Y use. Used correctly, it will give many years of troublefree service in either factory, workshop or home wherever a combination of high performance are required.

## INSTRUCTIONS

1. After unpacking the unit fit the work-table to its mountings by means of the two bolts and washers/spacers provided locating it with the two studs which allow the table to swivel. Make sure it at there is a clearance of 1.6mm between the table and the face of the sanding disc, in accordance with diagram A.
2. The table may be set at any angle of depression from 0-45. To lower the table, unlock the 6 bolts securely to lock the table in position. Next, fit the mitre gauge, if required, by sliding it into the groove provided on the work-table. To vary angle, unlock the nut and set according to the scale.
3. If desired, the rubber suction pad supports on the base can be removed and the unit be secured permanently to the bench by means of four wood screws and washers.
4. Never leave it running unattended. Always switch it off between operations or when inserting the workpiece. Before attempting to adjust the work-table or change the grinding face always ensure that the electricity supply is disconnected.
5. After switching off the motor allow the grinder to free wheel to a stop. Never attempt to stop it by braking rotation with pressure applied to the disc.
6. Your universal grinder is designed so that cuts extracted away from the work surface, and therefore requires only occasional cleaning. For this a paint brush or vacuum is recommended. Otherwise, the unit is completely maintenance free and requires no further attention or inspection.

1. Table
2. Locking Handle
3. Washer
4. Screw





# PARTS LIST FOR 12" DISC SANDER

Item No.	Description	Specifi cation	Qty
1	Knob bolt		1
2	washer		1
3	Miter gauge		1
4	Screw	M5×6	1
5	Pointer		1
6	Gauge sliding bar		1
7	Work table		1
8	Trunion (1)		1
9	Sanding disc		1
10	Trunion (2)		1
11	Washer		12
12	Elastic washer		12
13	Nut	M6	10
14	Disc		1
15	Washer		1
16	Screw	M6×20	7
17	Dust cover		1
18	Screw	M6×12	2
19	Safety switch		1
20	Switch plate		1
21	Screw	ST4.2 × 16	2
22	Screw	M4×12	2
23	Terminal Box		1
24	Base		1
25	Table lock assemble		2
26	Adjusting Pin		2

Item No.	Description	Specifi cation	Qty
27	Washer		6
28	Elastic washer		6
29	Screw	M5×25	3
30	Screw	ST3 × 16	2
31	Cable fixing plate		1
32	Screw	M4 × 8	5
33	Washer		5
34	Antikink device		1
35	Capacitor box		1
36	Capacitor		1
37	Motor housing		1
38	Cord & plug		1
39	Stator		1
40	Bearing	6204-2Z	1
41	key	A5 × 28	1
42	Rotor		1
43	Elastic washer		3
44	Fan cover		1
45	Fan		1
46	End bell		1
47	Rubber pad		4
48	Bolt	M6 × 20	4
49	Bearing	6203-2Z	1
50			
51			
52			

