

HAFCO **WOODMASTER**



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Instruction Manual

DISC SANDING MACHINE **DS305**

Order Code: (L1336)

Operator Safety: Required Reading

IMPORTANT! Safety is the single most important consideration in the operation of this equipment. The following instructions must be followed at all times.

There are certain applications for which this tool was designed. We strongly recommend that this tool not be modified and/or used for any other application other than that for which it was designed. If you have any questions about its application, do not use the tool until you have contacted us and we have advised you.

General Safety Warnings

KNOW YOUR POWER TOOL. Read the owner's manual carefully. Learn the tool's applications, work capabilities, and its specific potential hazards.

⚠ DANGER 	ALWAYS GROUND ALL TOOLS. If your tool is equipped with a three-pronged plug, you must plug it into a three-hole electric receptacle. If you use an adapter to accommodate a two-pronged receptacle, you must attach the adapter plug to a known ground. Never remove the third prong of the plug. ALWAYS AVOID DANGEROUS ENVIRONMENTS. Never use power tools in damp or wet locations. Keep your work area well lighted and clear of clutter.
⚠ DANGER 	ALWAYS REMOVE THE ADJUSTING KEYS AND WRENCHES FROM TOOLS AFTER USE. Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on. ALWAYS KEEP YOUR WORK AREA CLEAN. Cluttered areas and benches invite accidents.
⚠ DANGER 	ALWAYS KEEP VISITORS AWAY FROM RUNNING MACHINES. All visitors should be kept a safe distance from the work area. ALWAYS MAKE THE WORKSHOP CHILDPROOF. Childproof with padlocks, master switches, or by removing starter keys.
⚠ DANGER 	NEVER OPERATE A TOOL WHILE UNDER THE INFLUENCE OF DRUGS, MEDICATION, OR ALCOHOL.
⚠ DANGER 	ALWAYS WEAR PROPER APPAREL. Never wear loose clothing or jewelry that might get caught in moving parts. Rubber-soled footwear is recommended for the best footing.
⚠ DANGER 	ALWAYS USE SAFETY GLASSES AND WEAR HEARING PROTECTION. Also use a face or dust mask if the cutting operation is dusty.
⚠ DANGER 	NEVER OVERREACH. Keep your proper footing and balance at all times.
⚠ DANGER 	NEVER STAND ON TOOLS. Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

⚠ DANGER

ALWAYS DISCONNECT TOOLS.

Disconnect tools before servicing and when changing accessories such as blades, bits, and cutters.



ALWAYS AVOID ACCIDENTAL STARTING.

Make sure switch is in "OFF" position before plugging in cord.

NEVER LEAVE TOOLS RUNNING UNATTENDED.

⚠ DANGER

ALWAYS CHECK FOR DAMAGED PARTS.

Before initial or continual use of the tool, a guard or other part that is damaged should be checked to assure 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 damaged parts should immediately be properly repaired or replaced.



Special Safety Rules For Disc Sanders

1. Do not operate this machine until you have read all of the following instructions.
2. Do not attempt to operate this machine until it is completely assembled.
3. Do not turn ON this machine if any pieces are missing.
4. If you are not familiar with the operation of the machine, obtain assistance from a qualified person.
5. It is highly recommended that this machine be firmly mounted to a flat and secure work surface or stand.
6. Always wear protective eyewear prior to operating this machine.
7. Do not operate this machine if you are under the influence of drugs and/or alcohol.
8. Remove all jewelry prior to operating this machine.
9. Do not wear any gloves while operating this machine.
10. Always make sure the power switch is in the OFF position prior to plugging in the machine.
11. Always make sure the power switch is in the OFF position when doing any assembly or setup operation.
12. Always wear a dust mask and use adequate dust collection and proper ventilation. Use of sanders can produce harmful particles while sanding certain types of woods.
13. The use of any accessories or attachments not recommended may cause injury to you and damage your machine.
14. This machine must be properly grounded.
15. Abrasive discs should be the recommended diameter of the manufacturer.
16. Always keep your face and hands clear of moving parts such as belts and pulleys.
17. Keep power supply cords free of moving parts of the sander. Damaged cords can result in electric shock.
18. Maintain a 1/16" clearance between the sanding disc and table.
19. Always support the workpiece with the table.
20. Remove material or debris from the work area. Keep work area neat and clean.
21. Keep these instructions for future reference.

SAVE THESE INSTRUCTIONS.

Refer to them often.

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SPECIFICATIONS

Order Code	L1336
MODEL	DS305
Disc diameter	305mm
Table Size	435 x 225mm
Table Tilts / Postive Stops	45° / (0°, 22.5°, 45°)
Dust Port Diameter	63mm
Disc Speed	1420rpm
Motor	1HP / 750W
Voltage	240V
Nett Weight	36kg



WARNING

*Serious injury or death can result from using this machine **BEFORE** understanding its controls and related safety information. **DO NOT** operate, or allow others to operate, the machine until the information is understood.*

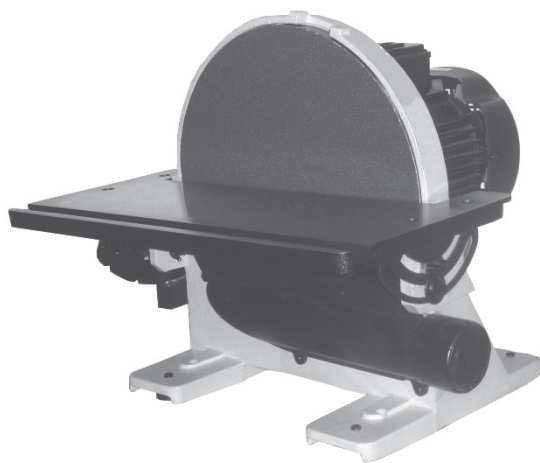


WARNING

It is impossible to cover all possible hazards Every workshop enviroment is different. These are designed as a guide to be used to compliment training and as a reminder to users prior to equipment use. Always consider safety first, as it applies to the individual working conditions.

CONTENTS OF PACKAGE

When unpacking, check to make sure the following parts are included.



A



B



C

D



E

- A Sander
- B Miter Gauge
- C Disc Brake
- D Two Mounting Screws for Disc Brake
- E Dust Port

Unpacking



When unpacking, check the packing list to make sure that all parts shown are included. If any parts are missing or broken, please contact the your distributor.

ASSEMBLY

Securing Sander Base Assembly to Workbench

The sander base must be secured before using. Attach a large C-Clamp to each side of the sander and the workbench. Or, permanently mount following the instructions below:

1. Place the sander on the workbench in its final operating location.
2. Place a pencil through the mounting holes of the sander base and mark the hole locations on workbench.
3. Remove sander and drill four 3/8" holes through the workbench.
4. Align sander base over holes and secure using four 5/16" screws (or larger) and hex nuts. (See Fig. 01)

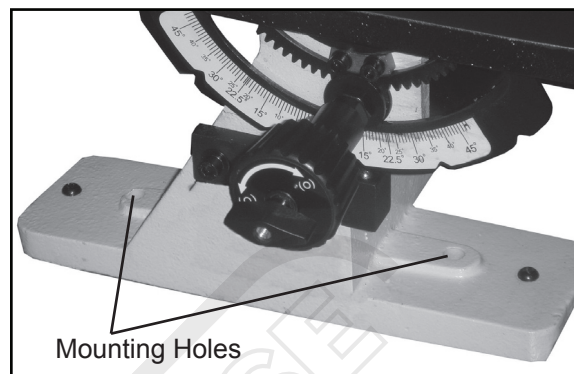


Fig. 01

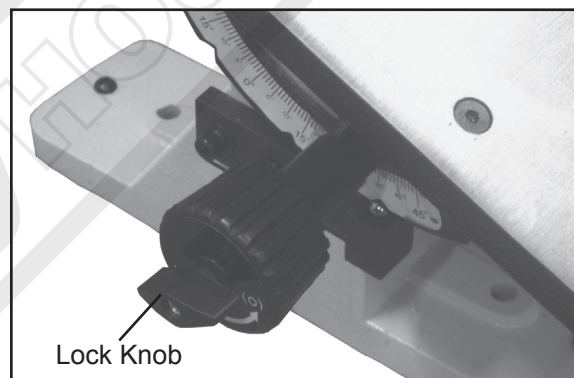


Fig. 02

Table Adjustments

The table stops have been pre-set at the factory. Follow the steps below if adjustments are needed.

1. Loosen lock knob (Fig. 02) and move table into the 90-degree position. Tighten lock knob and place a square against the table and sander disc. The square should rest flat against the table and the disc.
2. If adjustment is needed move the table so that it rests 90 degrees from the table, and loosen the two adjusting nuts (Fig. 03) on the stop bar and slide bar left or right for the proper adjustment. Once the proper adjustment is made tighten the two adjusting nuts on the stop bar.

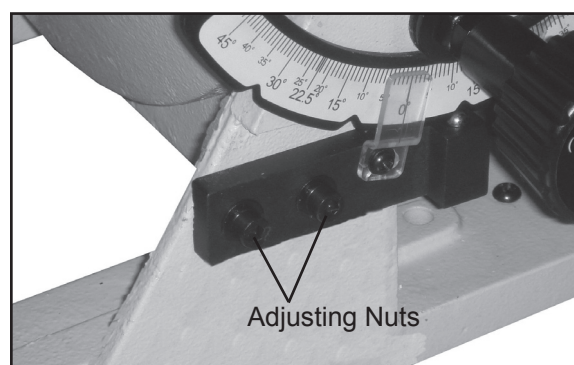


Fig. 03

Warning: To avoid jamming the workpiece or fingers between the table and sanding surface, the table edge should be a maximum of 1/16 inch from sanding surface.

3. Always maintain a gap of approximately 1/16" between the table edge, and disc. If adjustment is necessary loosen the four bolts (Fig. 04) and move the table into position.

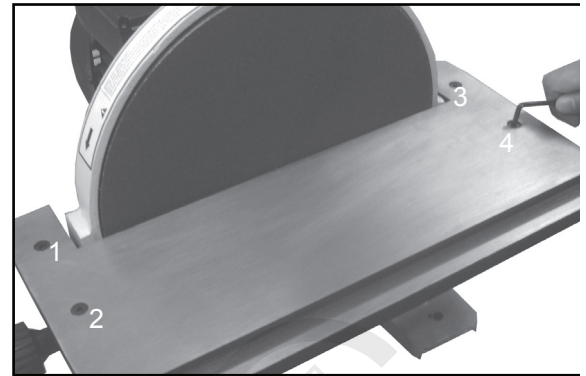


Fig. 04

4. Use a 1/16 inch drill bit as a spacer. Place the drill bit between the disc and the inside edge of the table. Hold the table against the 1/16 inch drill bit and tighten the four hex bolts. (See Fig. 05)

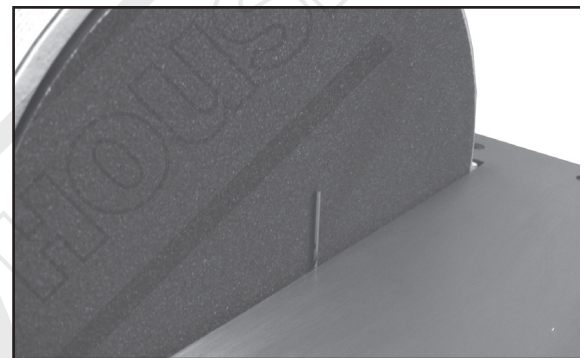


Fig. 05

OPERATION

Disc Brake

Warning: Never apply the disc brake with the switch in the "ON" position. Damage to the brake or disc may occur.

This 12" Disc Sander is equipped with a manual disc brake which can be applied by pressing down on brake lever (Fig. 06), after the switch has been turned off.

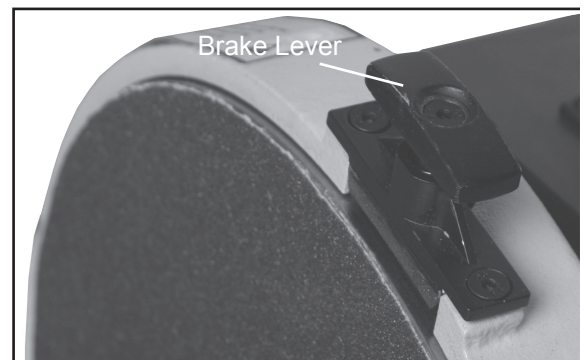


Fig. 06

OPERATION

Warning: Applying the workpiece to the right side of the disc could cause workpiece to fly up (kickback) and result in an injury.

Please take note of the disc rotation (counter clock-wise) and only work on the left side of the disc. (See Fig. 07)

Applying the workpiece to the left side of the disc will cause downward pressure against the table.

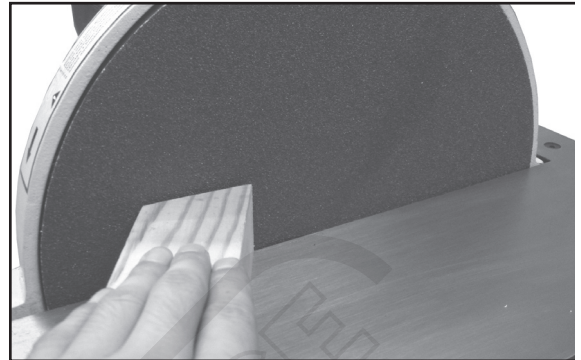


Fig. 07

Bevel Sanding

The work table can be tilted from 0 to +45 degrees for bevel sanding. Loosen the table lock knob and tilt the worktable to desired angle as shown. Retighten table lock knob. (See Fig. 08)

Warning: To avoid jamming the workpiece or fingers between the table and sanding surface, the table should be repositioned on the table support to retain a maximum of 1/16" distance between sanding surface and table.

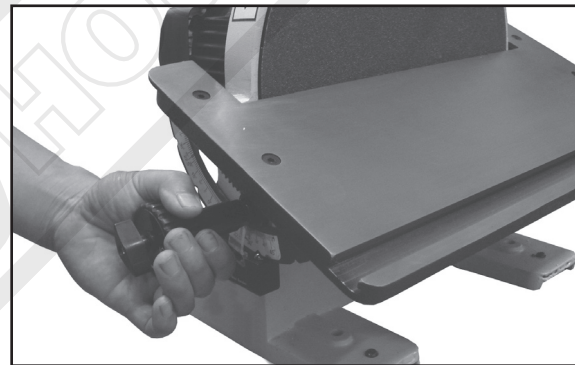


Fig. 08

Sanding Small End Surfaces on the Sanding Disc

Note: Use of a miter gauge is recommended for this operation.

Always move the work across left side of center on the sanding disc face as shown. (See Fig. 09)

Warning: Applying the workpiece to the right side of the disc could cause workpiece to fly up (kickback) and result in an injury.

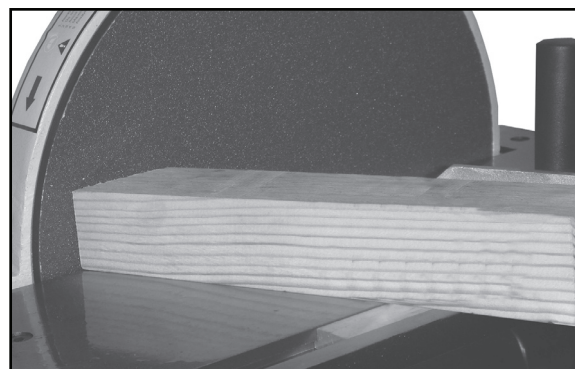
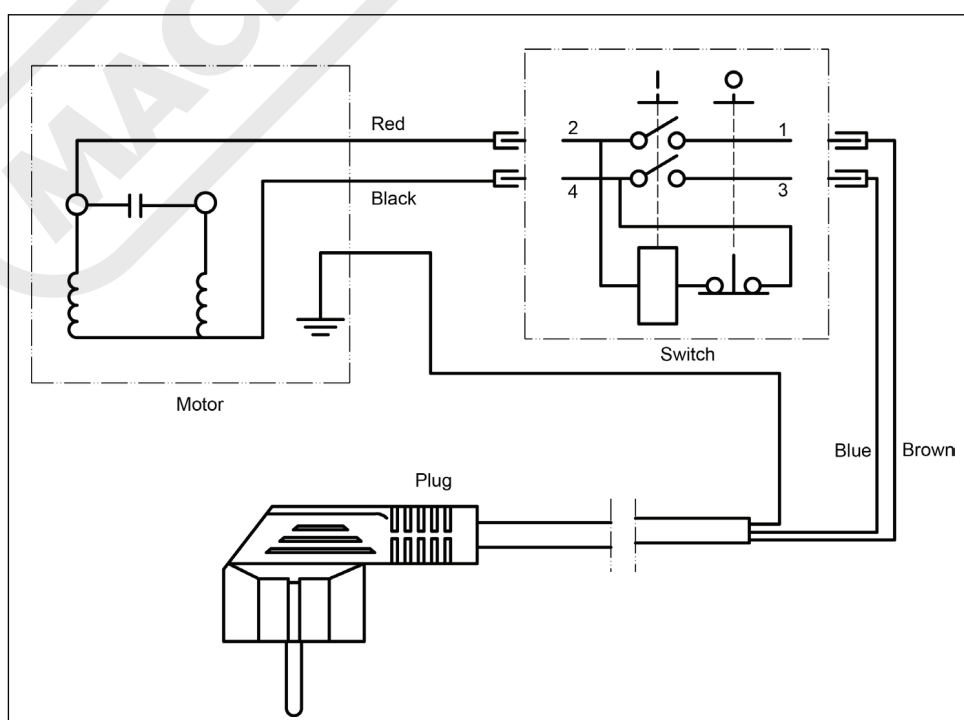


Fig. 09

TROUBLESHOOTING

Trouble	Possible Cause	Solution
Sander will not start	1. Sander unplugged from wall or motor 2. Fuse blown or circuit breaker tripped 3. Cord damaged	1. Check all plug connections 2. Replace fuse or reset circuit breaker 3. Replace cord
Sanding disc does not come up to speed	1. Extension cord too light or too long 2. Low current	1. Replace with adequate size and length cord 2. Contact a qualified electrician
Machine vibrates excessively	1. Stand or base on uneven surface	1. Adjust stand or base so that it rests evenly on the floor 2. Bolt down
Sanded edge not square	1. Table not square to sanding disc	1. Use a square to adjust table to sanding disc
Sanding marks on wood	1. Work held still 2. Wrong grit sanding disc 3. Feed pressure too great 4. Sanding against the grain	1. Keep workpiece moving 2. Use coarser grit for stock removal and fine grit for finish sanding. 3. Never force workpiece 4. Sand with the grain

WIRING DIAGRAM



PARTS LIST

Key No.	Description	Key No.	Description
1	Base	59	Brake Asm.
2	Retaining ring	60	Brake bracket
3	Washer	61	Screw
4	Gear shaft	62	Brake spring
5	Front trunnion	63	Brake lever
6	Guide block	64	L wrench 2.5
7	Bolt	65	L wrench 4
8	Spring washer	66	Tool holder
9	Screw	67	Nameplate
10	Washer	68	Table
11	Spring washer	69	Pointer
12	Hex nut	70	Screw
12	Scale	71	Miter gauge body
14	Washer	72	Lock knob
15	Hex nut	73	Guide block
16	Adjusting handle	74	"O" rubber ring
17	Lock knob	75	Lock shaft
18	Lock label	76	Washer
19	Adjusting tube	77	Rear trunnion
20	Handle cap	78	Washer
21	Set screw	79	Dust port
22	Spring	80	Plastic shield
23	Pointer	81	Disc body
24	Screw	82	Washer
25	Bolt	83	Screw
26	Washer	84	Sand paper
27	Spring washer	85	Pan head screw
28	Mounting base	86	Dentiform washer
29	Ball 8mm	87	Pan head screw
30	Rotate label	88	Rubber washer
31	Warning label	89	Hex. Nut
32	Rivet		
33	Cable		
38	Motor shield		
46	Screw		
47	Switch		
56	Key		

PARTS EXPLOSION

Key No.	Description	Key No.	Description
1	Base	59	Brake Asm.
2	Retaining ring	60	Brake bracket
3	Washer	61	Screw
4	Gear shaft	62	Brake spring
5	Front trunnion	63	Brake lever
6	Guide block	64	L wrench 2.5
7	Bolt	65	L wrench 4
8	Spring washer	66	Tool holder
9	Screw	67	Nameplate
10	Washer	68	Table
11	Spring washer	69	Pointer
12	Hex nut	70	Screw
12	Scale	71	Miter gauge body
14	Washer	72	Lock knob
15	Hex nut	73	Guide block
16	Adjusting handle	74	"O" rubber ring
17	Lock knob	75	Lock shaft
18	Lock label	76	Washer
19	Adjusting tube	77	Rear trunnion
20	Handle cap	78	Washer
21	Set screw	79	Dust port
22	Spring	80	Plastic shield
23	Pointer	81	Disc body
24	Screw	82	Washer
25	Bolt	83	Screw
26	Washer	84	Sand paper
27	Spring washer	85	Pan head screw
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31	Warning label	89	Hex. Nut
32	Rivet		
33	Cable		
38	Motor shield		
46	Screw		
47	Switch		
56	Key		

MACHINERYHOUSE



WARNING

General Machinery Safety Instructions

Machinery House
requires you to read this entire Manual before using this machine.

- 1. Read the entire Manual before starting machinery.** Machinery may cause serious injury if not correctly used.
- 2. Always use correct hearing protection when operating machinery.** Machinery noise may cause permanent hearing damage.
- 3. Machinery must never be used when tired, or under the influence of drugs or alcohol.** When running machinery you must be alert at all times.
- 4. Wear correct Clothing.** At all times remove all loose clothing, necklaces, rings, jewelry, etc. Long hair must be contained in a hair net. Non-slip protective footwear must be worn.
- 5. Always wear correct respirators around fumes or dust when operating machinery.** Machinery fumes & dust can cause serious respiratory illness. Dust extractors must be used where applicable.
- 6. Always wear correct safety glasses.** When machining you must use the correct eye protection to prevent injuring your eyes.
- 7. Keep work clean and make sure you have good lighting.** Cluttered and dark shadows may cause accidents.
- 8. Personnel must be properly trained or well supervised when operating machinery.** Make sure you have clear and safe understanding of the machine you are operating.
- 9. Keep children and visitors away.** Make sure children and visitors are at a safe distance for you work area.
- 10. Keep your workshop childproof.** Use padlocks, Turn off master power switches and remove start switch keys.
- 11. Never leave machine unattended.** Turn power off and wait till machine has come to a complete stop before leaving the machine unattended.
- 12. Make a safe working environment.** Do not use machine in a damp, wet area, or where flammable or noxious fumes may exist.
- 13. Disconnect main power before service machine.** Make sure power switch is in the off position before re-connecting.
- 14. Use correct amperage extension cords.** Undersized extension cords overheat and lose power. Replace extension cords if they become damaged.
- 15. Keep machine well maintained.** Keep blades sharp and clean for best and safest performance. Follow instructions when lubricating and changing accessories.
- 16. Keep machine well guarded.** Make sure guards on machine are in place and are all working correctly.
- 17. Do not overreach.** Keep proper footing and balance at all times.
- 18. Secure workpiece.** Use clamps or a vice to hold the workpiece where practical. Keeping the workpiece secure will free up your hand to operate the machine and will protect hand from injury.
- 19. Check machine over before operating.** Check machine for damaged parts, loose bolts, Keys and wrenches left on machine and any other conditions that may effect the machines operation. Repair and replace damaged parts.
- 20. Use recommended accessories.** Refer to instruction manual or ask correct service officer when using accessories. The use of improper accessories may cause the risk of injury.
- 21. Do not force machinery.** Work at the speed and capacity at which the machine or accessory was designed.
- 22. Use correct lifting practice.** Always use the correct lifting methods when using machinery. Incorrect lifting methods can cause serious injury.
- 23. Lock mobile bases.** Make sure any mobile bases are locked before using machine.
- 24. Allergic reactions.** Certain metal shavings and cutting fluids may cause an allergic reaction in people and animals, especially when cutting as the fumes can be inhaled. Make sure you know what type of metal and cutting fluid you will be exposed to and how to avoid contamination.
- 25. Call for help.** If at any time you experience difficulties, stop the machine and call you nearest branch service department for help.



WARNING

Linisher/Disc Sander Safety Instructions

Machinery House
requires you to read this entire Manual before using this machine.

- 1. Maintenance.** Make sure the sander is turned off and disconnect from the main power supply and make sure all moving parts have come to a complete stop before any inspection, adjustment or maintenance is carried out.
- 2. Sander Condition.** Sander must be maintained for a proper working condition. Never operate a sander that has damaged or worn parts. Scheduled routine maintenance should be performed on a scheduled basis.
- 3. Disc/Belt Condition.** Never operate a sander with a damaged or badly worn disc or belt. Replace if required.
- 4. Disc/Belt Rotation.** Be aware of the Disc and Belt rotation when sanding.
- 5. Hand Hazard.** Keep hands and fingers clear from moving parts. Serious injury can occur.
- 6. Leaving a sander Unattended.** Always turn the sander off and make sure all moving parts have come to a complete stop before leaving the sander. Do not leave sander running unattended for any reason.
- 7. Avoiding Entanglement.** Sander guards must be used at all times. Remove loose clothing, belts, or jewelry items. Never wear gloves while machine is in operation. Tie up long hair and use the correct hair nets to avoid any entanglement with the sander moving parts.
- 8. Understand the machines controls.** Make sure you understand the use and operation of all controls.
- 9. Power outage.** In the event of a power failure during use of the Linisher, turn off all switches to avoid possible sudden start up once power is restored.
- 10. Work area hazards.** Keep the area around the sander clean from oil, tools, chips. Pay attention to other persons in the area and know what is going on around the area to ensure unintended accidents.
- 11. Workpiece Handling.** Never hold small workpieces with your fingers during a cut. Always support/feed the workpiece with push stick, table support, vice, or some sort of clamping fixture.
- 12. Hearing protection and hazards.** Always wear hearing protection as noise generated from sander and workpiece vibration can cause permanent hearing loss over time.
- 13. Dust hazards.** Always wear dust mask or respirator and eye protection when sanding. Use a dust collector as well to keep dust to a minimum.
- 14. Feeding material.** Always feed material evenly and smoothly against the direction of rotation. Never use excessive force when sanding or serious injury can occur.
- 15. Job Material.** Check material prior to sanding for nails, staple and other objects that make cause any danger when sanding.
- 16. Starting position/speed.** Never turn the sander on when the workpiece is resting on the disc or belt. Allow disc and belt to reach full speed before sanding.
- 17. Disc sanding.** Keep workpiece down toward the table whilst sanding. Workpiece may cause serious injury if not held correctly.
- 18. Guards.** Do not operate sander without the correct guards in place.
- 19. Stopping the Disc/Belt.** Do not stop or slow the Disc or Belt with your hand or workpiece. Allow the machine to stop on its own.
- 20. Wood dust may cause allergic reactions.** Make sure you know what type of dust you are exposed to as it may cause you an allergic reaction. Always wear an approved respirator.
- 21. Call for help.** If at any time you experience difficulties, stop the machine and call your nearest branch service department for help.

PLANT SAFETY PROGRAM

NEW MACHINERY HAZARD IDENTIFICATION, ASSESSMENT & CONTROL

Linisher-Disc Sander

Developed in Co-operation Between A.W.I.S.A and Australia Chamber of Manufactures
This program is based upon the Safe Work Australia, Code of Practice - Managing Risks of Plant in the Workplace (WHSA 2011 No10)

Item No.	Hazard Identification	Hazard Assessment	Risk Control Strategies (Recommended for Purchase / Buyer / User)
A	ENTANGLEMENT	HIGH	Eliminate, avoid loose clothing / Long hair etc.
C	CUTTING, STABBING, PUNCTURING	MEDIUM	Isolate power to machine prior to any checks or maintenance being carried out. Do not adjust or clean machine until the machine has fully stopped.
D	SHEARING	MEDIUM	Always keep gap between table and disc to a minimum. Make sure all guard are secured shut when machine is on.
E	FRICITION	MEDIUM	Keep hands and body clear from sanding disc/belt.
F	STRIKING	MEDIUM	Wear appropriate protective clothing. Wear safety glasses.
			Stand clear of moving parts on machine. Remove all loose objects around moving parts.
			Ensure belts are in good condition and at correct tension. Always sand on the down stroke of the disc's rotation.
H	ELECTRICAL	MEDIUM	All electrical enclosures should only be opened with a tool that is not to be kept with the machine.
O	OTHER HAZARDS, NOISE, DUST.	LOW	Wear hearing protection as required. Must be connected to a dust extraction.
Plant Safety Program to be read in conjunction with manufactures instructions			



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Authorised and signed by:

Safety officer:

Manager:




Revised Date: 12th March 2012



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

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