

# INSTRUCTION MANUAL

**L-612**

**Belt & Disc Linisher Sander (240V)  
150 x 1220mm (W x L) Belt**



**L108**

The logo for Hare & Forbes Machinery House features the company name in a bold, sans-serif font. 'HARE' and 'MACHINERY' are in blue, while '&FORBES' and 'HOUSE' are in red. The text is framed by a blue swoosh that starts under 'HARE', goes up and over '&FORBES', and then comes down under 'HOUSE'. In the background, there is a faint image of industrial machinery, including a large circular component with multiple bolts.

# **HARE & FORBES**

## **MACHINERYHOUSE**

**Established 1930**  
**Distributors of New & Used Workshop Equipment**

## **BELT-DISC SANDER**

**MODEL: L-612**

**OPERATION MANUAL AND PARTS LIST**



# WARNING

## General Machinery Safety Instructions

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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

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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<br>(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.<br>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.<br>Make sure all guard are secured shut when machine is on.                                                                            |
| E                                                                             | FRICTION                      | MEDIUM            | Keep hands and body clear from sanding disc/belt.                                                                                                                                           |
| F                                                                             | STRIKING                      | MEDIUM            | Wear appropriate protective clothing.<br>Wear safety glasses.<br>Stand clear of moving parts on machine.                                                                                    |
| H                                                                             | ELECTRICAL                    | MEDIUM            | Remove all loose objects around moving parts.<br>Ensure belts are in good condition and at correct tension.<br>Always sand on the down stroke of the disc's rotation.                       |
| O                                                                             | OTHER HAZARDS, NOISE, DUST.   | LOW               | All electrical enclosures should only be opened with a tool that is not to be kept with the machine.<br><br>Wear hearing protection as required.<br>Must be connected to a dust extraction. |
| Plant Safety Program to be read in conjunction with manufactures instructions |                               |                   |                                                                                                                                                                                             |



[www.machineryhouse.com.au](http://www.machineryhouse.com.au)



[www.machineryhouse.co.nz](http://www.machineryhouse.co.nz)

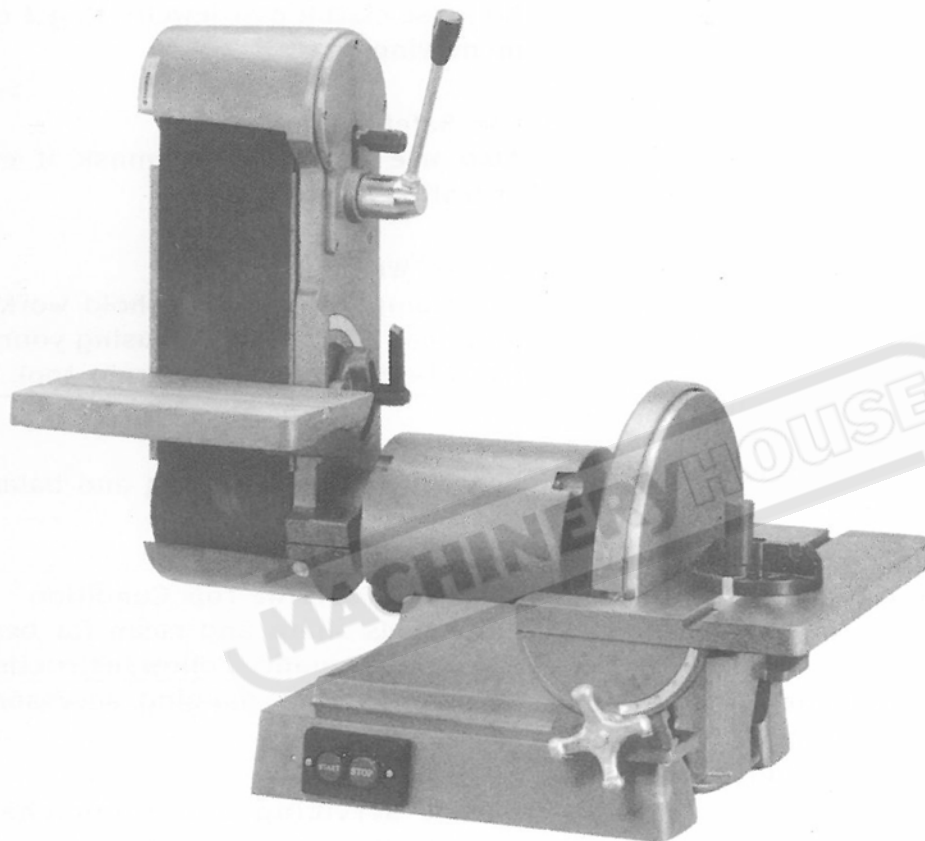
Authorised and signed by:  
Safety officer:

Manager:

*[Signature]*  
*[Signature]*

Revised Date: 12th March 2012

# 6" BELT & 12" DISC SANDER



Before Using Be Sure To Read This Manual.



1. **Know Your Power Tool**  
Read the owner's manual carefully. Learn the application and limitations as well as the specific potential hazards peculiar to this tool.
2. **Ground All Tools**  
If tool is equipped with three-prong plug. It should be plugged into a three-hole receptacle. If adapter is used to accommodate two-prong receptacle, the adapter wire must be attached to a known ground. Never remove third prong.
3. **Keep Guards in Place and in working order.**
4. **Remove Adjusting Keys and Wrenches**  
Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning on tool.
5. **Keep Work Area Clean**  
Cluttered areas and benches invite accidents.
6. **Avoid Dangerous Environment**  
Don't use power tools in damp or wet locations. Keep work area well illuminated.
7. **Keep Children Away**  
All visitors should be kept a safe distance away from work area.
8. **Make Workshop Kid Proof**  
With padlocks, master switches, or by removing starter keys.
9. **Don't Force Tool**  
It will do the job better and be safer at the rate for which it was designed.
10. **Use Right Tool**  
Don't force tool or attachment to do a job it was not designed for.
11. **Wear Proper Apparel**  
No loose clothing or jewelry to get caught in moving parts.
12. **Use Safety Glasses**  
Also use face or dust mask if cutting operation is dusty.
13. **Secure Work**  
Use clamps or a vise to hold work when practical. It's safer than using your hand, frees both hands to operate tool.
14. **Don't overreach**  
Keep your proper footing and balance at all times.
15. **Maintain Tools in Top Condition**  
Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
16. **Disconnect Tools**  
Before servicing and when changing accessories such as blades, bits, cutters.
17. **Avoid Accidental starting**  
Make sure switch is "OFF" before plugging in cord.
18. **Use Recommended Accessories**  
Consult the owners Manual. Use of improper accessories may be hazardous.

## **SAFETY RULES**

## OPERATION

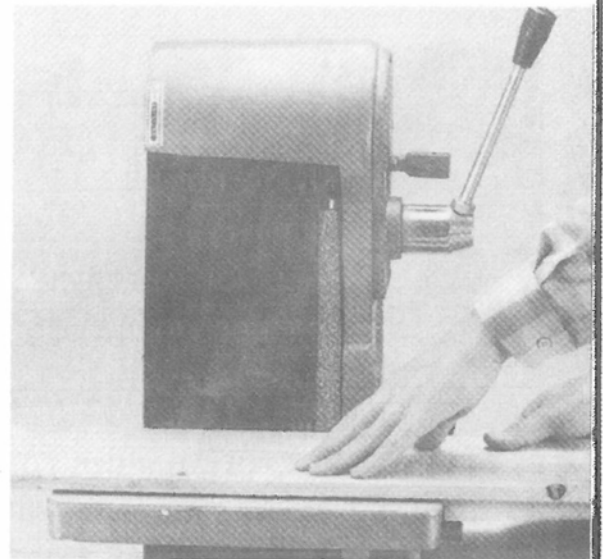
1. Sanding belt and sanding disc are suitable for use on material such as metal, wood or plastic.
2. The work piece should be moved back and forth over the sanding belt to maintain even belt wear and eliminate grooving.
3. Use the table to back up the work.
4. A danger when sanding very soft wood is "Over sanding", and wood should be sanded with the grain.
5. Excessive pressure against the belt is never necessary. Don't "Push" the sanding operation, It will only result installing the belt, clogging the abrasive, burning the wood, or ever tearing the belt.
6. Never take off table piece.

## CROSS-BEVEL CUTS

1. When ever possible, tilt the table to form an open angle with the belt (Using a closed angle might result in jamming the work-especially thin stock).
2. After tilting, be sure re-locate the table so its forward edge is close to the abrasive surface.

## SURFACE SANDING

1. Surface is more conveniently done with the belt sander in horizontal position.
2. Keep the work snug against the table as you move it slowly against the belt's direction for rotation.
3. Hold the left hand lightly on the surface and place the right hand against the end of the stock to feed it forward.





### **SANDING DISC USED**

1. The sanding disc takes standard 12" diameter cloth or paper back discs
2. 60 grit for coarse or rough sanding.
3. 80 grit for general purpose medium duty sanding.
4. 100 grit for fine sanding.

### **SANDING BELT USED**

1. The sanding belt takes standard 6" x 48" belt.
2. We recommend a medium belt general purpose sanding, coarse for rough sanding, and fine for finishing work.

### **LUBRICATION**

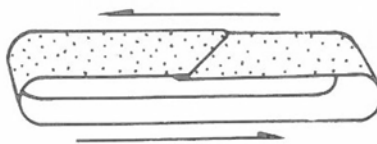
Your machine is fitted with sealed ball bearing which do not requires additional lubrication.

### **MOTOR AND OPERATING SPEED REQUIREMENT**

A 2HP close motor with an operating disc speed of 3450 R.P.M. and 5350ft beltspeed (2 pole). The motor core connect with disc and belt, so it will produce the operating speed.

### **ROTATION**

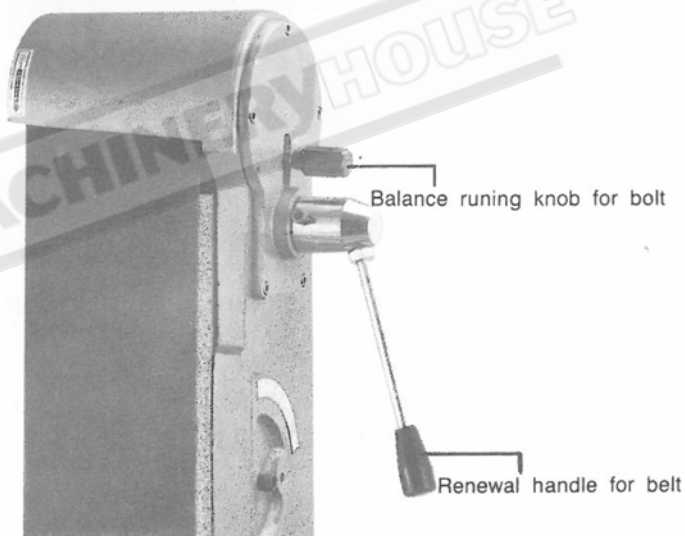
Rotation must be counter-clockwise, when facing the sanding disc. This rotation direction will cause the sanding belt to drive the work piece against the platen table for must convenient sanding. Since sanding belts are designed to go in only one direction (they can part run in the wrong direction), look for the direction arrow on the back of the belt, If there is no direction arrow, the raised part of the seam, where the belt is connected, must be ahead in the direction of the travel of the belt.



## ADJUSTMENT

### CHANGING BELTS:

1. Remove the table from the machine (if it is at the position of sanding belt).
2. Pulling down the Renewal handle for belt, take off the old belt and change a new one, Turning up the Renewal knob for belt then to adjust the balance runing knob for belt, and center the belt over the drums as closely as possible.

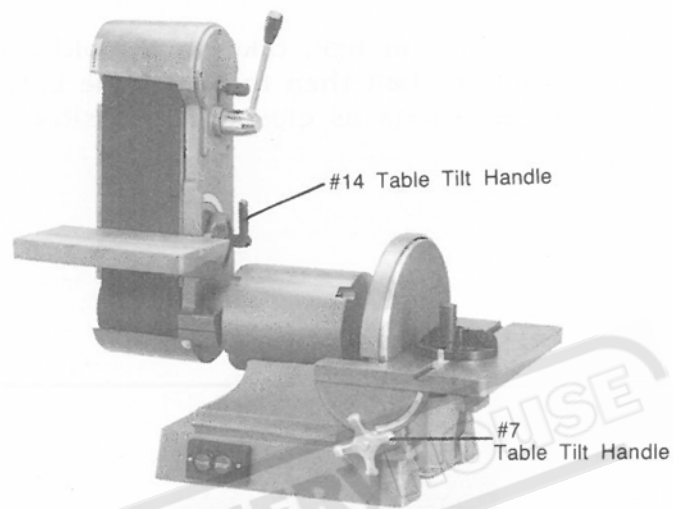


### CHANGING DISC:

1. Remove the table from the machine (if it is at the position of sanding disc.)
2. Take off the disc from the shaft, and change new one.
3. If want to change the sand paper only, then do not take off the disc from the shaft/. Just take off the old snader paper from the disc and stick new one.

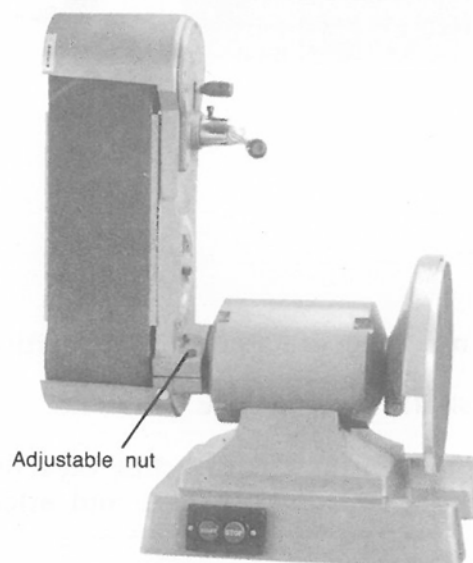
### TILTING TABLE

1. Loosen the table tilt handle for disc or belt, and turn the table to the angle you want by angle plate.
2. Relock table tilt handle for disc or belt (#7, 14)



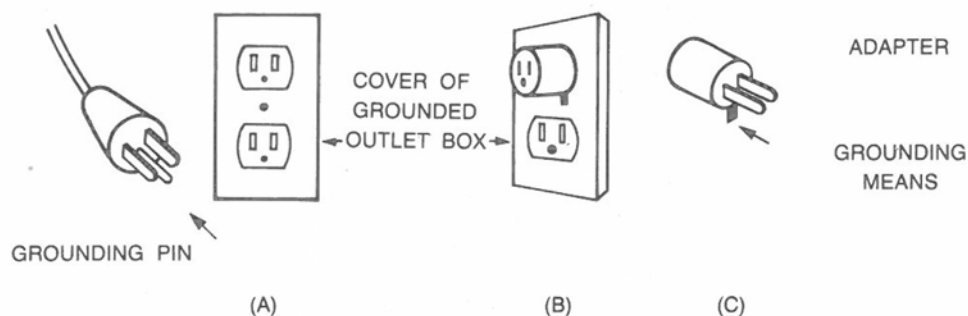
### HORIZONTAL TO VERTICAL CHANGE OVER (BELT SANDER)

1. To change from vertical to horizontal, slowly lower the belt sander to horizontal position. The adjusting belt will support it at this position.
2. For the weight and designed of the belt sander, it is not necessary to use screws, just loosen the adjustable nut, therefore it can be change position easily.



## GROUNDING

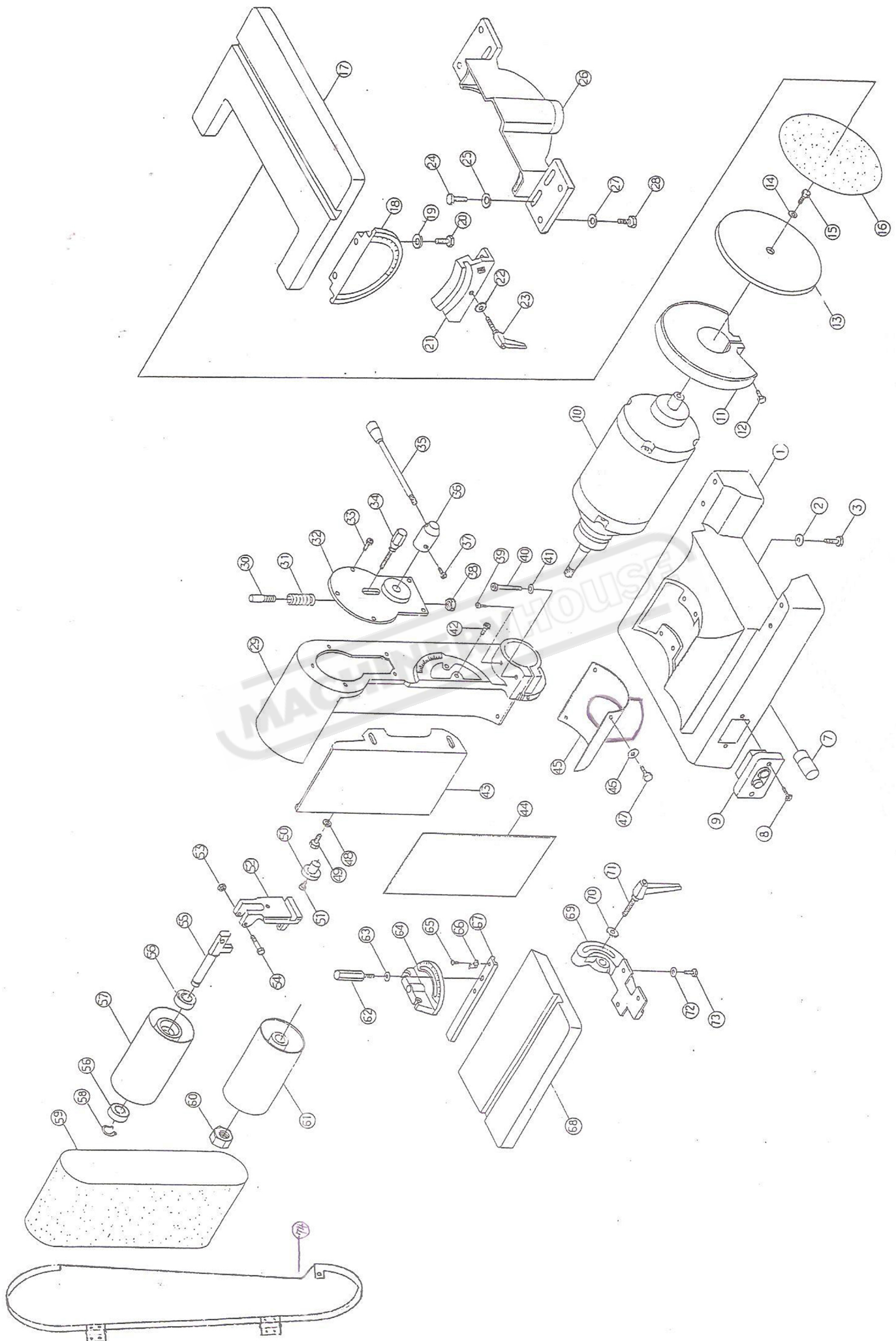
1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool if equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided-if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment grounding conductor to a live terminal.
4. Check with a qualified electrician or servicement if the grounding instructions are not completely understand, or if in doubt as to whether the tool is properly grounded.
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.
7. This tool is intended for use on a circuit that has an outlet that has looks like the one illustrated in Sketch A in Figure 1. The tool has a grounding plug that looks like the plug-illustrated in Sketch A in Figure 1. A temporary adapter, which looks like the adapter illustrated in Sketches B and C. may be used to connect this plug to a 2-pole receptacle as shown in Sketch B if a properly grounded outlet is not available. The temporary adapter should be used until a properly grounded outlet can be installed a qualified electrician. The green-colored rigid ear, etc. extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.



## 612 BELT DISC SANER MODEL:AS — 612

| Ts NO. | Description           | Unit | Ts NO. | Description         | Unit |
|--------|-----------------------|------|--------|---------------------|------|
| 1      | Base                  | 1    | 38     | NUT 5/8"            | 1    |
| 2      | Washer                | 4    | 39     | Set screw 5/8"      | 1    |
| 3      | Screw 5/16"×3/4"      | 4    | 40     | Screw 3/8" × 2 1/2" | 1    |
| 4      |                       | 1    | 41     | Washer 3/8"         | 1    |
| 5      |                       | 4    | 42     | Screw 3/8" × 1"     | 1    |
| 6      |                       | 4    | 43     | Sand platen         | 1    |
| 7      | Capacitor             | 1    | 44     | Graphite wear pad   | 1    |
| 8      | Screw 3/16"×1/2"      | 2    | 45     | Cover               | 1    |
| 9      | Switch                | 1    | 46     | Washer              | 3    |
| 10     | Motor                 | 1    | 47     | Screw 1/4" × 1/2"   | 3    |
| 11     | Disc cover            | 1    | 48     | Washer              | 2    |
| 12     | Screw 5/16"×1 1/4"    | 1    | 49     | Screw               | 2    |
| 13     | Sand disc             | 1    | 50     | Cam                 | 1    |
| 14     | Washer 3/8"           | 1    | 51     | Screw 1/4" × 3/8"   | 1    |
| 15     | Screw 3/8"×3/4"       | 1    | 52     | Block plate         | 1    |
| 16     | Sand paper            | 1    | 53     | Nut                 | 1    |
| 17     | Table                 | 1    | 54     | Screw 1/4" × 2"     | 1    |
| 18     | Angle                 | 2    | 55     | Idler roller shaft  | 1    |
| 19     | Washer 5/16"          | 4    | 56     | Ball bearing        | 2    |
| 20     | Screw 5/16"×3/4"      | 4    | 57     | Idler roller        | 1    |
| 21     | Table support bracket | 2    | 58     | Retaining ring      | 1    |
| 22     | Washer                | 2    | 59     | Sand belt 6" × 48"  | 1    |
| 23     | Knob 5/16"            | 2    | 60     | Nut                 | 1    |
| 24     | Screw 5/16"×1"        | 4    | 61     | Driving roller      | 1    |
| 25     | Washer 5/16"          | 4    | 62     | Knob                | 1    |
| 26     | Suction mouth         | 1    | 63     | Washer 1/4"         | 1    |
| 27     | Washer 5/16"          | 4    | 64     | Miter gauge         | 1    |
| 28     | Screw 5/16" × 3/4"    | 4    | 65     | Screw 3/16" × 1/4"  | 1    |
| 29     | Sand belt frame       | 1    | 66     | Point               | 1    |
| 30     | Spring bar            | 1    | 67     | Miter bar           | 1    |
| 31     | Spring                | 1    | 68     | Aluminum table      | 1    |
| 32     | Roller support        | 1    | 69     | Angle plate         | 1    |
| 33     | Screw 1/4" × 3/4"     | 5    | 70     | Washer              | 1    |
| 34     | Adjust bar            | 1    | 71     | Table tilt handle   | 1    |
| 35     | Knob                  | 1    | 72     | Washer              | 1    |
| 36     | Adjust cover          | 1    | 73     | Screw 1/4" × 3/4"   | 3    |
| 37     | Screw 1/4" × 3/4"     | 1    | 74     | COVER               | 1    |



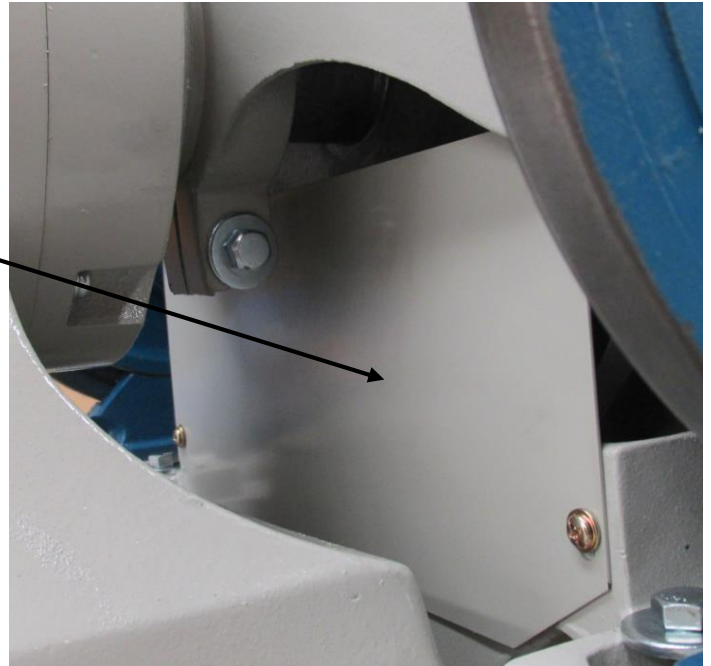




**L108 L612 Linisher     Assembling rear disc guard and Assembly of machine on stand**

9-11-15

Please find packed with the machine an extra sheet metal guard that is to be bolted behind the sanding disk, using the two screws provided in the packaging with the guard,



Also

Please note: When mounting Machine to stand, to fit your Dust hose onto under the Disk table.

The machine is to overhang as shown below...

