

CRL C.R. LAURENCE CO., INC.

Portable Belt Sander

Set Up and Operating Instructions

CAT. NO. LD118, LD118EU, LD118AU



**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL**



Care for the environment!
Tool must not be discarded with household waste!
This product contains electrical or electronic components that should be recycled. Leave the product for recycling at the designated station e.g. the local authority's recycling station.

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SAFETY INSTRUCTIONS

WARNING: WHEN USING ELECTRIC TOOLS, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY, INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS:

- KEEP WORK AREA CLEAN. Cluttered areas and benches invite injuries.
- CONSIDER WORK AREA ENVIRONMENT. Do not use power tools in damp or wet locations. Keep work area well lit. Do not expose power tools to rain. Do not use tool in presence of flammable liquids or gases.
- KEEP CHILDREN AWAY. All visitors should be kept away from work area. Do not let visitors contact tool or extension cord.
- STORE IDLE TOOLS. When not in use, tools should be stored in dry location, out of reach of children.
- DO NOT FORCE TOOL. It will do the job better and safer at the rate for which it was intended.
- USE RIGHT TOOL. Do not force small tool or attachment to do the job of a heavy-duty tool. Do not use tool for purpose not intended.
- DRESS PROPERLY. Do not wear loose clothing or jewelry. They can be caught in moving parts.
- USE SAFETY GLASSES. Also face or dust mask is recommended.
- DO NOT ABUSE CORD. Never carry tool by cord or pull it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- SECURE WORK. Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- DO NOT OVERREACH. Keep proper footing and balance at all times.
- MAINTAIN TOOLS WITH CARE. Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and greases.
- DISCONNECT TOOLS. When not in use, before servicing, and when changing belts.
- AVOID UNINTENTIONAL STARTING. Do not carry tool with finger on switch. Be sure switch is OFF when plugging in.
- EXTENSION CORDS. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.
- OUTDOOR USE EXTENSION CORDS. When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
- STAY ALERT. Watch what you are doing, use common sense. Do not operate tool when you are tired.

SAFETY INSTRUCTIONS

- **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 repaired or replaced. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.
- **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.
- **REPLACEMENT PARTS.** When servicing, use only OEM replacement parts.
- **POLARIZED PLUGS.** To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

VOLTAGE 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 or the tool. A power source with 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 voltage less than the nameplate rating is harmful to the motor.

ADDITIONAL SAFETY RULES

- Hold the tool firmly with both hands.
- Make sure the belt is not contacting the workplace before the switch is turned on.
- Keep hands away from rotating parts.
- Do not leave the tool running. Operate the tool only when hand-held.
- This tool has not been waterproofed, so do not use water on the workpiece surface.

Specifications:

LD118	120V, 60 Hz	Abrasive Belt Dimension:	1-1/8" x 21" (28.6 x 533.4 mm)
LD118EA	220V, 50 Hz	Abrasive Belt Speed (min):	656 - 3280 ft (200-1000 m)
LD118AU	240V, 50 Hz	Sander Length:	15" (321 mm)
		Sander net Weight:	4.6lbs (2.1 kg)

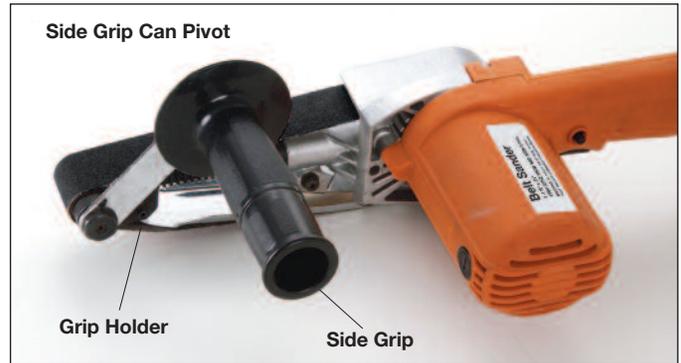
Standard Accessories:

1 side handle

ASSEMBLY

Installing the Side Grip

For your own safety, always use the side grip. Install it by screwing it firmly on the grip holder. The side grip can be pivoted for easy operation. See the figure at right.

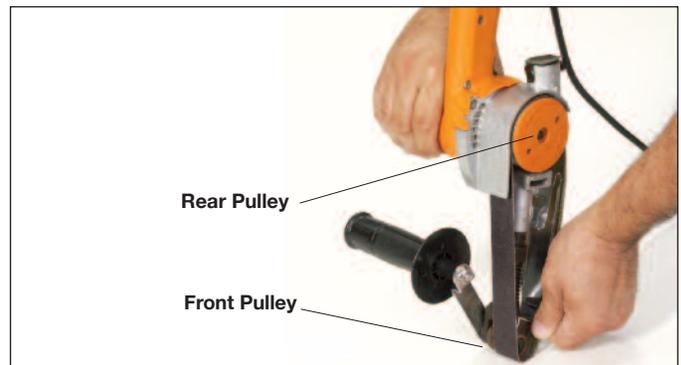


Installing or Removing the Abrasive Belt

CAUTION:

Always be sure that the tool is switched off and unplugged before installing or removing the belt.

Loop the belt over the front pulley. Hold the tool as shown at right and press down to retract the front pulley so that you can slip the other end of the belt over the rear pulley. When pressing down the tool, be careful not to allow the front pulley to turn unexpectedly, causing you to lose control of the tool.

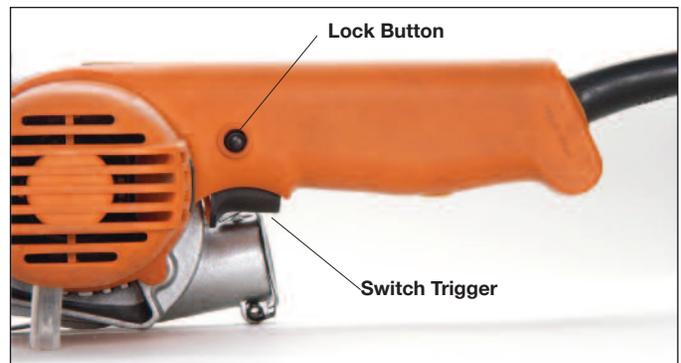


Switch Action

CAUTION:

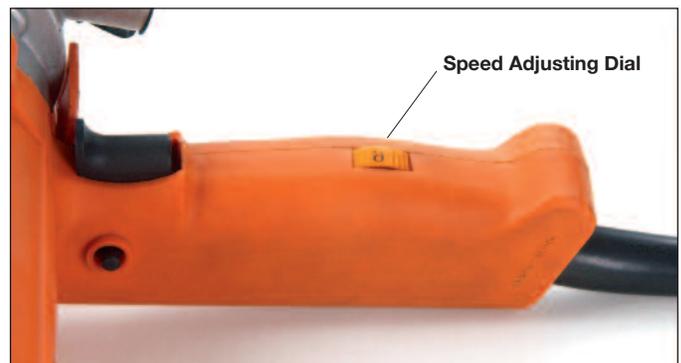
Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released. If it does not operate properly, do not use the tool. Have it repaired immediately.

To start the tool, simply pull the trigger. Release the trigger to stop. For continuous operation, pull the trigger and then push in the lock button. To stop the tool from the locked position, pull the trigger fully, then release it.



Speed Adjusting Dial

The belt running speed can be adjusted and maintained between 200 m (656 ft.) and 1,000 m (3,280 ft.) per minute by turning the adjusting dial. The dial is marked 1 (lowest speed) to 6 (full speed).



CAUTION:

Adjust the speed adjusting dial only within the range of numbers 1 through 6. Do not force the dial beyond this range or damage to the tool may result.

OPERATION

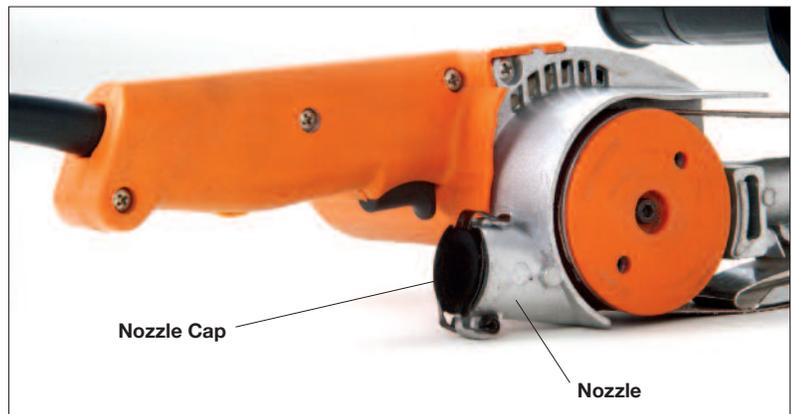
Hold the tool firmly with both hands. Turn the tool on and wait until it attains your desired speed. Gently apply the tool to the workpiece surface and move the tool forward and back. Press the belt only lightly on the workpiece. Excessive pressure may damage the belt and shorten tool life.

CAUTION:

- Secure the workpiece with clamps, etc. if there is any possibility of it moving during the work operation.
- The tool should not already be in contact with the workpiece surface when you turn the tool on or off. Otherwise a poor sanding finish, damage to the belt or loss of control of the tool may result.
- When working with the tool, be very careful to avoid any contact of the tool and belt with any part of your body or anything near you.

Dust Extraction

Open the nozzle cap. Connect the hose of a vacuum cleaner/dust collector to the nozzle.



CAUTION:

Always close the nozzle cap when the hose of a vacuum cleaner/dust collector is not connected to the nozzle. Never insert your finger into the nozzle.

MAINTENANCE

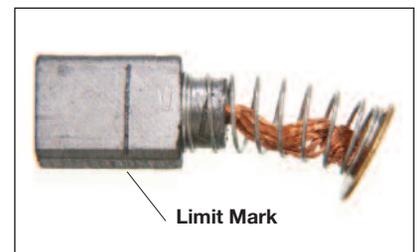
CAUTION:

Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

Replacing Carbon Brushes

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.



PARTS

Item No.	Description	Quantity
1	Grip	1
2	Hex. Bolt	1
3	Cap	1
4	Spring Pin	1
5	Tapping Screw	3
6	Flat Shoe	1
7	Tapping Screw Bind	1
8	Compression Spring	1
9	Flat Washer	1
10	Wing Nut	1
11	Gear Housing Complete	1
12	Ball Bearing	1
13	Helical Gear	1
14	Spring Pin	1
15	Ball Bearing	1
16	Bearing Retainer	1
17	Tapping Screw	2
18	Pulley	1
19	Abrasive Belt	1
20	Pulley Liner	1
21	Flat Washer	1
22	Hex. Socket Head Bolt	1
23	Tapping Screw	3
24	Handle Cover	1
25	Switch	1
26	Controller	1
27	Tapping Screw	2
28	Strain Relief	1
29	Cord	1
30	Cord Guard	1
31	Spring Pin	1
32	Top Pulley Shaft	1
33	Pulley	1
34	Ball Bearing	1
35	Sleeve	1
36	Ball Bearing	1
37	Angle Stay Complete	1
38	Arm Complete	1
39	Wave Washer	2
40	Hex. Nut	1
41	Name Plate	1
42	Carbon Brush	2
43	Brush Holder Cap	2
44	Motor Housing Complete	1
45	Field Assembly	1
46	Tapping Screw Bind	2
47	Baffle Plate	1
48	Ball Bearing	1
49	Insulation Washer	1
50	Armature Assembly	1
51	Fan	1
52	Ball Bearing	1

