

**CRL C.R. LAURENCE CO., INC.**

# **Belt Sander**

## **Instruction Manual**

**CAT. NO. LD321, LD321AU, LD321EU**



**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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## TECHNICAL DATA

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<b>Input Voltage</b>	120V - 60Hz (LD321) 220V - 50Hz (LD321EU) 240V - 50Hz(LD321AU)
<b>Input Power</b>	7.0 Amp
<b>Belt Speed (no load)</b>	1180' (380 m) per minute belt speed
<b>Belt Dimensions</b>	3" x 21" (76 x 533 mm)
<b>Weight</b>	10 Lbs. (4.6 Kg)

Level of sound pressure measured according to EN 50144:



**Hearing protection should be worn when using belt sanders.**



# **SAFETY INSTRUCTIONS**

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**READ THESE INSTRUCTIONS BEFORE OPERATING THIS PRODUCT AND SAVE THESE 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:**

- KEEP WORK AREA CLEAN. Cluttered areas and benches invite injuries.
- CONSIDER WORK AREA ENVIRONMENT. Do not expose power tools to rain. Do not use power tools in damp or wet locations. Keep work area well lit. Do not use power tools where there is risk to cause fire or explosion.
- GUARD AGAINST ELECTRIC SHOCK. Avoid body contact with earthed or grounded surfaces (e.g. pipes, radiators, ranges, refrigerators).
- KEEP CHILDREN AWAY. Do not let visitors touch the tool or extension cord. All visitors should be kept away from area.
- STORE IDLE TOOLS. When not in use, tools should be stored in a dry, high or locked up place, out of reach of children.
- DO NOT FORCE THE TOOL. It will do the job better and safer at the rate for which it was intended.
- USE THE RIGHT TOOL. Do not force small tools or attachments to do the job of a heavy-duty tool. Do not use tools for purposes not intended.
- DRESS PROPERLY. Do not wear loose clothing or jewelry, they can be caught in moving parts. Rubber gloves and nonskid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- USE SAFETY GLASSES. Also use face or dust mask if the cutting operation is dusty.
- CONNECT DUST EXTRACTION EQUIPMENT. Ensure that any devices provided for the extraction and collection of dust are properly connected and used.
- DO NOT ABUSE THE CORD. Never carry the tool by the cord or pull it to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.
- SECURE WORK. Use clamps or a vice to hold the work. It is safer than using your hand and it frees both hands to operate the tool.
- DO NOT OVERREACH. Keep proper footing and balance at all times.
- MAINTAIN TOOL WITH CARE. Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubrication and changing accessories. Inspect tool cord periodically and if damaged have it repaired by an authorized service facility. Inspect extension cords periodically and replace, if damaged. Keep handles dry, clean and free from oil and grease.
- DISCONNECT TOOLS. When not in use, before servicing and when changing accessories such as blades, bits and belts, ensure that the tools are disconnected.
- REMOVE ADJUSTING KEYS AND WRENCHES. Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

# **SAFETY INSTRUCTIONS**

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- AVOID UNINTENTIONAL STARTING. Ensure switch is off when plugging in the tool. Do not carry a plugged-in tool with a finger on the switch.
- USE OUTDOOR EXTENSION LEADS. When tool is used outdoors, use only extension cords intended for outdoor use.
- STAY ALERT. Watch what you are doing. Use common sense. Do not operate tool when you are tired.
- 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, free running of moving parts, breakage of parts, mounting of parts and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced. Do not use the tool if the switch does not turn it on and off.
- WARNING The use of any accessory or attachment, other than those recommended in this instruction manual, may present a risk of personal injury.
- HAVE YOUR TOOL REPAIRED BY A QUALIFIED PERSON. This electric tool is in accordance with the relevant safety requirements. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user. The following symbols are used throughout this manual:



**Denotes risk of personal injury or damage to the tool.**

## **ADDITIONAL SAFETY INSTRUCTIONS FOR SANDERS**

- Empty dust collection bag daily.
- Whenever possible, use a vacuum extractor for dust collection.
- Remove dust and other waste matter in an environmentally safe way.

## **ELECTRICAL SAFETY**



**Always check that the power supply corresponds to the voltage on the rating plate.**

# OPERATION

## Mounting a Sanding Belt

- Pull the clamping lever (A) out and turn it as far as it will go.
- Take a sanding belt of the required grain size and place it on the rollers.
- Make sure that the sanding belt is straight and centered on the rollers.
- Push the clamping lever back.
- Switch the machine on to let the sanding belt run. With the machine switched on, turn the belt centering knob (B) until the sanding belt keeps running straight.



The sanding belt must be fit firmly on the sanding pad and should not come loose.

## Using the Dust Extraction Outlet

In combination with the dust bag or an external dust extractor, the dust extraction outlet keeps dust away from the sanding surface.

## Switching On and Off

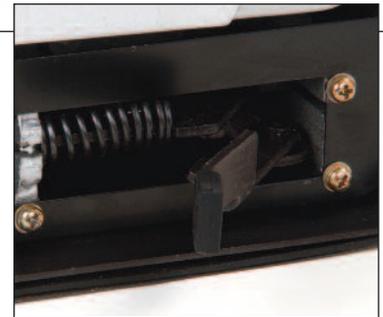
- To switch on the machine, press the on/off switch.
- To switch off the machine, release the on/off switch.
- To switch the machine to continuous mode, keep the on/off switch fully pressed and simultaneously press the lock button. Then release the on/off switch.
- Press and release on/off switch to disengage continuous mode.

## Cleaning and Maintenance

The machine does not require any special maintenance. Regularly clean the ventilation slots.

## Environment

Should your machine need replacement after extended use, do not put it in the domestic waste but dispose of it in an environmentally safe way.



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Item No.	Name	Quantity
1	M4X18 Screw	2
2	Elastic Washer 04	14
3	Plain Washer 04	11
4	Rear Damper	1
5	Dust Hood	1
6	M5X12 Screw	1
7	Elastic Washer 05	6
8	Impeller	1
9	Tapping Screw ST48X18	4
10	Middle Bracket	1
11	Bearing 6200	3
12	Rotor	1
13	Damper	1
14	Plain Washer	1
15	Small Belt Wheel	1
16	Wind Screen	1
17	Screw M5X45	2
18	Stator	1
19	Hexangular Nut	1
20	Handle Stem Cover	1
21	Cable Cover	1
22	Tapping Screw ST39X15	2
23	Cable Pressure	1
24	Plastic Housing	1
25	Screw M4X30	3
26	Brush Holder	2
27	Carbon Brush	2
28	Brush Cap	2
29	Screw M5X40	1
30	Belt Cover	1
31	Iron Pipe	1
32	Belt	1
33	Screw M3X16	2
34	Big Belt Wheel	1
35	Housing Cover	1

Item No.	Name	Quantity
36	Check Ring 012	2
37	Flat Key	1
38	Big Gear	1
39	Needle Hearing	3
40	Housing	1
41	Switch	1
42	Annual Damper	1
43	Bearing 68012	1
44	Channel Washer	1
45	Rear Wheel	1
46	Sand Belt (76X533)	1
47	Screw M4X10	7
48	Front Cover	1
49	Screw M5X14	6
50	Adjusting Knob	1
51	Plain Washer 016	1
52	Adjusting Spring	1
53	Screw M5X10	1
54	BK0810 Needle Bearing	1
55	Shaft Gear	1
56	Spring	1
57	Front-Wheel Frame	1
58	Washer Bowl	1
59	Front-Wheel	1
60	Column Pin	1
61	Front-Wheel Axis	1
62	Bottom Plate	1
63	Late Cushion	1
64	Bottom Plate	1
65	Baffle	1
66	Rivet	1
67	Screw Cap	1
68	Washer	1
69	Cable	1
70	Rear Axis Wheel	1

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