

# SET UP AND OPERATING INSTRUCTIONS

## CRL SOMACA BELT SANDER MODELS 2300RP and 2300 for 4" x 106" Sanding Belts



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**IMPORTANT: READ THIS MANUAL THOROUGHLY BEFORE BEGINNING OPERATION**

## INTRODUCTION

Your new CRL Belt Sander was developed and improved through the years until it can now be called the finest piece of equipment available in its price range. The machine incorporates many fine features such as a direct drive, 1 H.P. motor, a spring tensioned- upper pulley, safety shield, totally sealed ball bearings eliminating weekly lubrication, and a tig welded steel water tank with a replaceable sacrificial anode fitted in the tank bottom for corrosion abatement. Like any good machine, it will give best results if it is properly cared for. It is not necessary to pamper this equipment, but reasonable maintenance will increase the machine's life.

We put sealed bearings in our machines because we found that most shops do not take the time to grease the bearings on a routine basis. However, even sealed bearings do sometimes go bad, and should be inspected on a weekly basis for noise or rough spots. Scrubbing the machine occasionally will prevent glass and sludge build-up, and any areas where rust is starting to show should be scraped, primed, and repainted to get the maximum life out of the machine.

The instructions on the following pages will guide you through the initial setup, maintenance, and replacement of parts on your machine. Should you run into any problem or procedure you do not understand, please feel free to call our toll free number (800) 421-6144, and we will be glad to help you.

## UNCRATING THE MACHINE

Remove the shipping cover and inspect for any damage. If you find any part of your machine has freight damage, save all shipping material and call the delivering carrier immediately. Tell them you want to file a damage claim and have them send out an inspector. If everything is okay, completely remove the shipping crate, including the wooden base.

## SETTING UP THE BELT SANDER

1. Position the Sander in it's desired location. The machine should be level and secured to the floor with anchors fastened through the base plate holes.

## ELECTRICAL CONNECTION

2. Place the Sander switch in OFF position, plug in to a 110 volt single phase grounded outlet. Ground plug is provided for safety, **DO NOT ALTER IN ANY WAY**. Turn switch to confirm the motor will run. If it does not run check electrical connections.

## DRAIN LINE CONNECTION

At bottom of the sander bucket is a 1/2" NPT coupling connection.

## CONNECT WATER SOURCE

3. Unplug Sander from electrical outlet. Connect the Sander to the facilities water supply using copper tubing and a 1/8" NPY male connection to the 1/8" NPT female connection point at the electric water valve. (See **Photo A**). Note "flow direction" as marked on the valve with an arrow. Turn the water ON and check for leaks. Position a bucket or pan under the drain pipe on the machine. Note: If drained directly into a sewer line, abrasive sand grindings may accumulate and could plug your drain opening.

## WATER FLOW ADJUSTMENT

4. Plug machine to outlet again. Be sure the manual water flow control valve (located after the electric water valve) has the handle turned in the direction the water is flowing: this is the OPEN position. Turn power switch ON and the water will begin to spray. The spray pattern on the Sander is not adjustable. If the spray pattern decreases or changes, remove and clean the spray nozzle. The manual water flow control valve (See **Photo A**) can be adjusted to reduce the water flow. Do not use more water than needed to keep the belt just wet enough to reduce dust particles. Turn the machine OFF.



Photo A

## INSTALL ABRASIVE BELT

5. The Sander is shipped with a 120 grit abrasive belt installed. If so, proceed to step 6 for checking proper tracking. To install belts unplug the machine from the outlet. Pull the handle to open the side door. To remove or install a belt over the top and bottom pulley pull down on the black handle tensioner mechanism. (See **Photo B**) Be sure the belt does not become wrapped over the water nozzle.

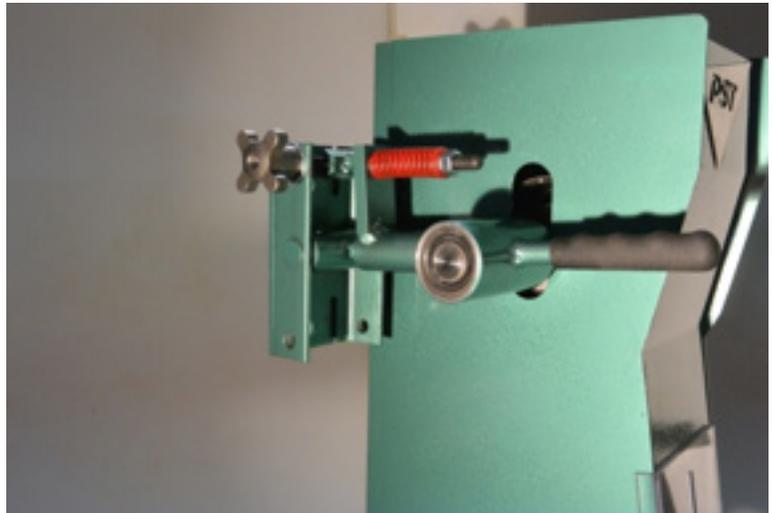


Photo B

**NOTE:** Only silicon carbide grain belts should be used for wet or dry glass grinding. Belts are offered as butt spliced or overlap sliced. The overlap style belts can only run in one direction as arrow marked in back side of the belt. For proper rotation, with the belt installed over pulleys, **the arrow is pointing UP** on the back side of the belt. (See **Photo C**)

## BELT TRACKING ADJUSTMENT

6. The belt has been installed and aligned at the factory prior to shipping. Instructions below outline the procedure to make adjustments as needed.

With Sander unplugged from outlet. Rotate the belt by hand through several cycles to monitor and adjust the tracking mechanism. On left top side of Sander is the tensioner assembly, the star shaped knob (Photo B) provides tracking adjustment. Turning clockwise will move belt to the right, counterclockwise moves left. Turn the knob until the belt tracks in the middle of both pulleys when pulling by hand. Now plug in the Sander to outlet and turn switch ON to check alignment at operational speeds. The goal is to have the belt track in the middle of both upper and lower pulleys. The center "roller platen" should also be aligned with the belt. (See **Photo D**) To adjust loosen the two set screws on the roller platen shaft to move in or outboard until centered on belt width.



Photo C

## PULLEY ALIGNMENT

The pulleys are aligned at the factory with alignment only required during pulley replacement intervals. To check alignment place a straight edge at the pulley edge, both pulleys including roller platen are the same width therefore should align evenly with a straight edge. (See **Photo E**).



Photo D

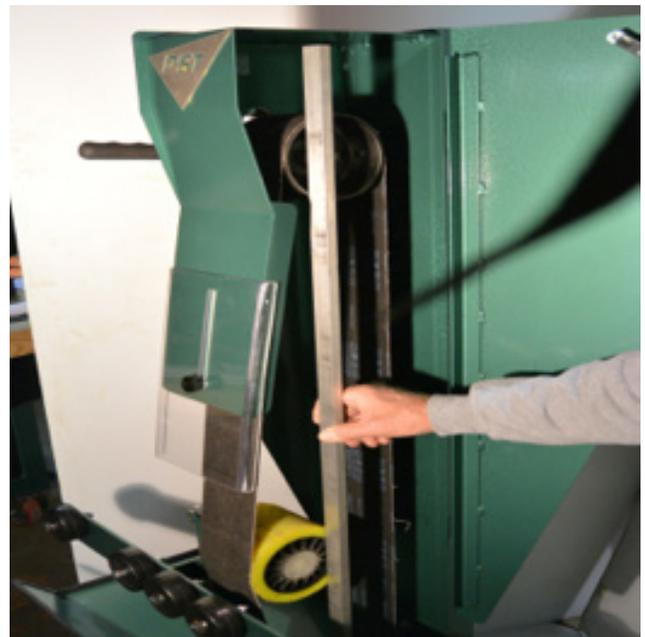


Photo E

Each pulley has three machine screws within the pulley hub. If the upper or lower pulley is out of alignment remove the three machine screws from the pulley in need of alignment.

The three machine screws once removed are then reinserted into the pulleys three tapped holes for removal or to separate the pulley from the hub. The hub by design is tapered to insure proper centering of the pulley upon assembly.

Once the pulley is removed use the (non threaded) pulley holes to re-insert the three machine screws. The hub can be adjusted upon the shaft with the screws loose or by inserting a screw driver in the hubs slot opening. Once hub and pulley are aligned tighten screws in a cross pattern.



Photo F

## BELT TENSION ADJUSTMENT

The tension is preset from the factory and commonly no further adjustment required. Reference **Photo B**, a nut at the end of the red spring controls the tension setting of the belt. Tightening the nut (clockwise) increases belt tension, counter clockwise reduces belt tension. Should operator notice or hear a flapping sound from the belt during operation the belt is loose requiring tightening.

## PULLEY WEAR

The upper and lower pulley will have a crown or hump in the mid section as new. With years of usage the crown becomes worn or flat and the belt will no longer track properly. Reference the enclosed part replacement list for new crown pulleys.

## ROLLER PLATEN

The roller platen exterior is made from durable urethane providing years of wear. The platen assembly consists of a urethane roller, sealed bearings and shaft. Reference the enclosed part replacement list for new roller platen assembly. To remove loosen the two set screws to pull shaft from collars.

## CRL SOMACA BELT SANDER MODELS 2300RP AND 2300 FOR 4" X 106" SANDING BELTS

**NOTE:** After a year or two of continued machine use, the pulleys will wear and need to be replaced or have a new crown machined in them. This is usually evident when you cannot get the belt to track and pulley adjustment will not correct the tracking. To check this, lay a straight edge across the pulley. A new pulley will have a noticeable hump or crown in the middle of it. A worn-out pulley will be flat or even have a valley in its center. If the pulley is worn, a one degree crown should be remachined into the surface or the pulley should be replaced with a new one.

### Precautions:

1. Do not allow hands to come in contact with the belt while it is moving.
2. Be sure safety shield is properly positioned.
3. Do not overload your shop electrical circuits. Be sure wiring is adequate.
4. Be sure your service plug has grounding provisions to be sure the belt sander is grounded at all times.

## GENERAL GUIDELINES USING THE BELT SANDER

The application of the glass and the choice of belt grits are largely a matter of the individual operator's preference, but the following procedures are submitted as a guide for general work.

To obtain a round or pencil edge, use a coarse grit belt and lightly bevel the sharp edges left from cutting by running or swiping glass quickly across the belt. This helps to reduce chipping the glass during succeeding grinding. Draw the glass slowly across the unsupported area of the belt above the platen, and at the same time tilt the glass up and down until the desired contour is obtained. Finish the edge on a smoothing belt and then polish if desired.

For a flat, seamed edge, use a belt of medium grit and lightly bevel the edges as above. Next, grind the entire edge flat by applying the glass squarely to the platen. Change to a finishing or smoothing grit and go over the flat edge again, then seam both sides of the glass by tilting it about 45° and running it across the belt on the platen.

Rough grinding can be done by using abrasive belts in grit sizes 40, 60, 80, and 120. Belts of 150, 180, 220 and 280 grits are for smoothing; grits 320 and 400 for satin finishing; 600 grit and cork belts are for extra high polishing.

## LUBRICATION

The only bearings on the sander that may require lubrication are the motor bearings. Check to see if there are grease fittings for applying lubrication.

Time interval: Every six months.

**NOTE:** Apply grease sparingly as overly greased bearings can create seal failure and eventually cause bearing failure. Type of grease: CRL Cat. No. WL14 No.2 Lithium Base Grease.

Use CRL Cat. No. 1200 Metal Lube weekly on the front rest roller axles.

## HOW TO REMOVE AND REPLACE THE ELECTRIC WATER VALVE

1. **IMPORTANT!** Unplug the machine power supply.
2. Turn off water supply to the machine and disconnect the water supply line from the valve (see Photo 1 on Page 4).
3. Disconnect the water line from the connection on the machine.
4. Open connection box on the motor and disconnect the solenoid wires from the wire bundles.
5. Unscrew the solenoid assembly from the manual valve.
6. Prep the new solenoid pipe fittings and thread into manual water valve. ENSURE the water inlet is piped to the #1 stamped inlet on the solenoid body. The #2 stamped port is the outlet and is piped to the manual water valve.
7. Pull the two new solenoid wires thru the electrical connector and into the motor connection box. Connection will be the same as the removed solenoid valve. Secure with wire nuts and tape with electricians tape.
8. Rewrap the two solenoid wires with the removed spiral wrap.
9. Replace the cover to the motor connection box and reconnect the water supply. Plug in the machine power supply.
10. Turn on water supply. Turn on the machine and check for leaks. Check that there is water spraying from the nozzle.
11. Make sure the nozzle is NOT spraying when the power is shut off, and make a final check for leaks on all connections.

## Remove and Install Motor

NOTE: This is a straight-forward job that requires a basic knowledge of electrical wiring. If you do not feel confident in your ability to connect wires, have a qualified electrician change the motor for you.

1. Unplug the machine, turn off the water supply, and remove the sanding belt.
2. Before removing the bottom pulley, measure the distance from the back side of the pulley to the side of the tank. Record this measurement so you can replace the pulley at this same distance. This will help keep the belt alignment to original specs.
3. Remove the three bolts on the pulley hub and reinstall in the three threaded holes. Using a cross torque sequence on the bolts when tightening, will force the tapered bushing apart, allowing removal of the hub and pulley.
4. Disconnect the wiring from the motor by removing two screws on the connection box cover on the motor.
5. Disconnect Black (L1) and White (L2 or neutral) plus a green ground coming from the power in line.
6. Those are the power wires plus a green ground wire coming from the power line in. Mark which motor connection each one goes to for rewiring.
7. With the power wires disconnected from the motor, the power cable can be disconnected from the motor.
8. The four bolts holding the motor to the machine can now be loosened.
9. The motor itself weighs about 40 lbs (18 kg). Use a small jack or have a helper hold the motor up while the bolts are loosened. Slowly pull the motor from the machine.
10. Align the new motor with the bolts. Capacitor should be facing up. Tighten the bolts from inside the tank.
11. Reconnect the power cable and connect the wires to the motor lugs and replace the metal cover. Reconnect the two solenoid wires. Plug in the power cord and check for motor operation. The motor should turn counterclockwise as viewed from the shaft end in the tank. Reverse wires #5 and #8 to correct rotation.
12. After motor operation is confirmed. UNPLUG the power cord, apply a small amount of light grease to the motor shaft to prevent rust, and replace the lower pulley and the sanding belt. Remember to refer to the "pulley to tank" measurement that was made in step #2. The water supply can now be turned back on.
13. Turn the belt through two complete rotations by hand and check the alignment. Adjust as needed to make the belt track straight on all three wheels.

## Remove and Replace Sanding Belt, Pulleys, and Roller Platen

Always UNPLUG the machine before doing ANY work on it. The sanding belt should be removed before attempting any work on Pulleys or the Roller Platen.

### Sanding Belt

The sanding belts are easy to replace. With the belt door on the right side of the machine open, firmly pull down on the black tensioner handle.

This will allow the belt to be removed from the top pulley and then from the lower pulley. Belt installation is just as simple. Hold the belt with one hand, gripping the middle, and loop the bottom of the belt around the lower pulley. Make sure that the belt is not between the water spray nozzle and the tank side. Slide one side of the belt over the platen roller and pull down on the tensioner handle. This will allow you to put the top of the belt over the top pulley. Check that the nozzle is not hooked on the belt and pull the belt through two complete rotations to check the tracking.

### Upper and Lower Pulleys

Before removing the lower pulley, measure and record the distance from the back edge of the pulley (closest to the motor) to the side of the tank.

The Lower Pulley is removed by first removing the sanding belt and then removing three (3) 7/16" bolts on the hub. Reinstall the same bolts in the threaded holes by cross tightening the bolts, this will force the tapered bushings from the crown pulley.

### Roller Platen

The Roller Platen is made as an assembly with the roller, two sealed bearings, and the shaft. It is best to measure and record the distance from the inside edge of the roller to the bracket so the new Roller Platen can be placed close to the same position. To replace the Roller Platen, remove the sanding belt, then loosen two set screws on the Roller Platen bracket and remove the assembly. Fit the new assembly at the same distance from the bracket as the old Platen, then tighten the two set screws. Replace the belt, turn on the machine and check that the platen and belt are running true.

## ROLLER PLATEN, UPPER PULLEY, SHAFT AND BEARINGS

For ease of maintenance and durability, the Roller Platen and Top Pulley Assemblies are supplied as two assemblies. Replacing the bearings or shaft alone requires a press and an experienced operator. Because the roller platen, top crowned pulley itself, and the bearings are some of the few parts of the 2300RP that may need replacement, they are sold as unit assemblies. These assemblies can be replaced quickly with simple hand tools by following the instructions on Page 3 of this manual.

## GENERAL MAINTENANCE

Motor Bearings, located on top of motor housing have two access fitting locations. Use general bearing grease. Recommended annually to reduce moisture entering within bearings.

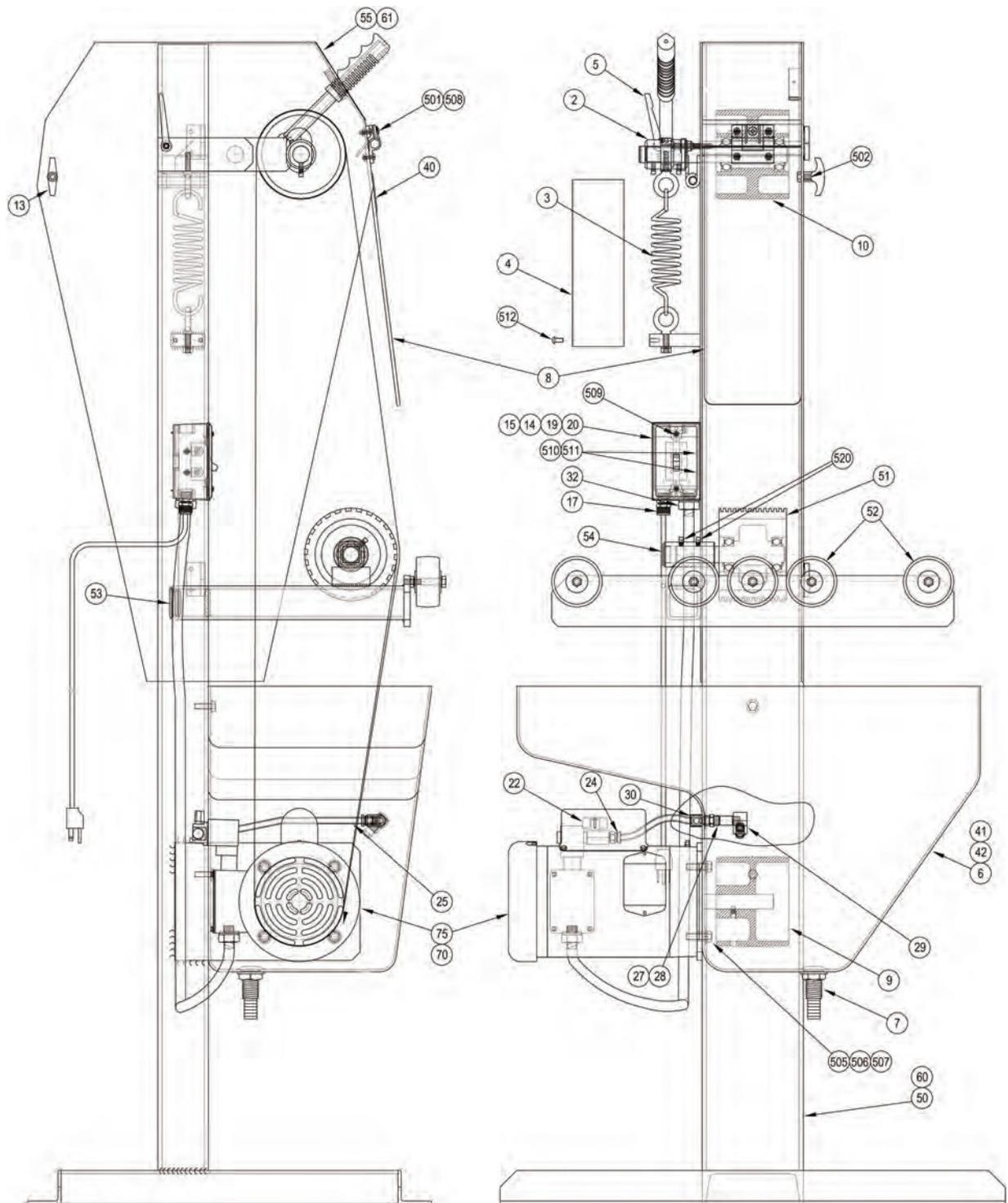
## TROUBLESHOOTING

| PROBLEM             | LIKELY CAUSE  | SOLUTIONS   |
|---------------------|---|---|
| Will Not Start      | Power Failure   | <ul style="list-style-type: none"> <li>• Check electrical power source</li> <li>• Check ON/OFF switch - is water solenoid opening?</li> <li>• Check power at the motor</li> <li>• Check starting capacitor on motor</li> </ul>  |
| Water Does Not Flow | Check manual valve is open<br>Electric Solenoid Failure | <ul style="list-style-type: none"> <li>• Flip power switch ON/OFF while holding hand over Solenoid. If snap is felt you have a water restriction and clean nozzle. No snap, check power or bad solenoid.</li> </ul>   |
| Belt Does Not Track | Out of adjustment                                       | <ul style="list-style-type: none"> <li>• Review belt alignment section of manual. If it still will not align pulleys and/or platen then replacement is required. Also check belt direction and belt type overlap.</li> </ul>  |
| Vibration or Noise  | Bad Motor Bearing or require lubrication                | <ul style="list-style-type: none"> <li>• Check platen and pulley shafts for vibration. Replace pulley assembly accordingly.</li> <li>• Check motor with and without belt installed. If motor vibrates lubricating motor bearings (two places on top motor housing) or replace motor.</li> </ul> |

## REPLACEMENT PARTS

| Description   | Qty                | Part #        |
|---|--------------------|---------------|
| Abrasive Belts 120 grit                               | 5 belts / box      | CRL4X106120X  |
| Abrasive Belts 80 grit                                | 5 belts / box      | CRL4X10680X   |
|   |                    |               |
| Bar Platen  | Optional Equipment | BS4X106-BP106 |
| Flat Platen   | Optional Equipment | BS4X106-FP106 |
|   |                    |               |
| Roller Platen Assembly                                | 1                  | BS4X106-RP106 |
| Pulley / Hub (same low / upper)                       | 1                  | BS4X106-PH206 |
| Motor 1 HP, TEFC, Special 110/230v, 1800 rpm, 50/60Hz | 1                  | BS4X106-MS101 |
| Guide Wheels w/ Bolts ( set 5)                        | 1                  | BS4X106-GW200 |
| Belt Tension Assembly                                 | 1                  | BS4X106-BT300 |
| Water Solenoid Valve                                  | 1                  | BS4X106-SV650 |
| Ball Valve 1/4" NPT                                   | 1                  | BS4X106-BV660 |
| Water Spray Nozzle                                    | 1                  | BS4X106-SN670 |
| Tubing 3/8" OD Black                                  | 30 inches          | BS4X106-TB680 |
| Safety Guard Eye Shield                               | 1                  | BS4X106-GS400 |
| Star Knob   | 1                  | BS4X106-SK333 |
| Toggle Switch 110v                                    | 1                  | BS4X106-TS110 |
| 8 ft 110v cord  | 1                  | BS4X106-C110  |
| Tank Anode  | 1                  | BS4X106-A555  |
| Tank Protective Trim                                  | 6 ft               | BS4X106-T807  |
| Replacement Tank, water bucket                        | 1                  | BS4X106-T806  |
| Tank drain fitting                                    | 1                  | BS4X106-D444  |

CRL SOMACA BELT SANDER MODELS 2300RP AND 2300 FOR 4" X 106" SANDING BELTS  
 REPLACEMENT PARTS DIAGRAM FOR THE 2300RP BELT SANDER



# CRL SOMACA BELT SANDER MODELS 2300RP AND 2300 FOR 4" X 106" SANDING BELTS

|     |     |          |                                     |
|-----|-----|----------|-------------------------------------|
| 520 | 2   | 15051761 | SQHSS, 1/4-20NC x 5/8 CUP, ZIP      |
| 65  | 1   | 42700230 | LABEL CRL MODEL 2300RP 5'x 6'       |
| 54  | 1   | 46902380 | 1-1/8'SQUARE CAP, RIBBED BLACK POLY |
| 53  | 1   | 46902390 | PLUG, 1-3/4' SQUARE TUBE POLY BLACK |
| 52  | 1   | 330015   | SET WHEELS, BOLTS, NUTS, GUIDE BAR  |
| 51  | 1   | 330010   | ROLLER PLATEN ASSEMBLY              |
| 50  | 1   | 10042300 | FRAME WELDMENT, 2300RP              |
|     | QTY |          | 2300 ROLLER PLATEN OPTION, (P834)   |

|     |   |          |                                       |
|-----|---|----------|---------------------------------------|
| 514 | 1 | 15049340 | SSS. 5/16-18NCX 2-1/2 LG CPB.O        |
| 513 | 1 | 15103670 | NUT.LOCK 5/16-18NCESNA ZIP            |
| 512 | 2 | 45044991 | BHCS, 1/4-20 x 1/2, SS                |
| 511 | 2 | 45115952 | WASHER, FLAT,#10 SST (7/16) OD        |
| 510 | 2 | 45000130 | HHCS, #10-24NC x 5/8 ZINC             |
| 509 | 2 | 45042331 | FHMS, 6-32 x 11'2, STID, ZIP          |
| 508 | 2 | 45104100 | NUI, ESNA. 10-24, ZIP                 |
| 507 | 4 | 15110371 | LOCK WASHER, 3/8, ZIP                 |
| 506 | 4 | 15113950 | WASHER, 3/8, ZIP                      |
| 505 | 4 | 15000560 | HEX HEAD CAP SCREW, 318-16 x t25, ZIP |
| 504 | 2 | 45113510 | WASHER, 5/16, ZIP                     |
| 503 | 2 | 15000300 | HEXHEAD CAP SCREW,5/16-18 x 1.00, 7JP |
| 502 | t | 15000260 | HEX HEAD CAP SCREW, 5/16-13 X 1/2,ZiP |
| 501 | 2 | 45001890 | SCREW, ROUND HEAD,10-24 x 518,B/O     |
| 500 | f | 45113762 | WASHER, FLAT, 1/2NAS, 7/8OD,SS        |

|      |   |           |  |
|------|---|-----------|--|
| 7E   | 1 | 41427110  | CORDSET.AS/NZS 8FT10A.250VMALE         |
| * 7S | 1 | 310043502 | MOTOR ASSEMBLY 220V                    |
|      |   |           | 2300 1/50-60/220V ELECT OPTION (P836A) |

\* Includes motor, water solenoid and wiring harness. For motor only, order Cat. No. 2200220VMTR

|      |   |           |                                 |
|------|---|-----------|---------------------------------|
| T1   | 1 | 11428010  | CORD PLUG SET GRD 15A           |
| * 70 | 1 | 310043501 | MOTOR ASSEMBLY 110V             |
|      |   |           | 23001/60/110V MER OPTION (P836) |

\* Includes motor, water solenoid and wiring harness. For motor only, order Cat. No.2200110VMTR

|    |   |           |                                      |
|----|---|-----------|--------------------------------------|
| 61 | 1 | 42700231  | LABELCRLMODEL2300RP 5" X 6'          |
| 60 | 1 | 310042301 | FRAME,WELDMENT,2300                  |
|    |   |           | W/02300 ROLLER PIATEN OPTION, (P835) |

| B I L L O F M A T E R I A L |        |             |  |
|-----------------------------|--------|-------------|--|
| ITEM                        | AMOUNT | PART NUMBER | DESCRIPTION                                |
|                             |        |             | 2300 BELT SANDER COMMON PARTS<br>310042200 |
| 32                          | 1      | 41400550    | CONNECTOR, STRAIGHT,3/8",BLACK NYLON       |
| 31                          | 1      | 42201953    | NOZZLE,#H1/4 M-4, BRASS                    |
| 30                          | 1      | 12012014    | ELBOW, STREET, 1/4', 90°,1200#BRASS        |
| 29                          | 1      | 42011014    | ELBOW,1/4,' 90', 1200#BRASS                |
| 28                          | 1      | 42001614    | NIPPLE,114" x 1-1/2, SCHD40BRASS           |
| 27                          | 1      | 12028614    | COUPLING, FULL,1 /4'1200# BRASS            |
| 26                          |        |             |  |
| 25                          | 1.25   | 49900020    | TUBING, 3/8' OD x .062 WALL x 15',BLACK    |
| 24                          | 2      | 42101880    | QUICK CONNECT FITTING, 318'                |
| 23                          | 1      | 46104660    | 14LB PUIMI AGNET, ADHESIVE BACKED          |
| 22                          | 1      | 42053492    | VALVE, BALL,1/4NPT,Wf WaG 200              |
| 21                          |        |             |  |
| 20                          | 1      | 37028601    | ELECTRICAL CONTROL BOX COVER               |
| 19                          | 1      | 36957501    | JUNCTION BOX                               |
| 18                          | 1      | 41420280    | TOGGLE SWITCH, DPST 20A                    |
| 17                          | 1      | 11401670    | CORD GRIP, .31 TO .44,CORD,112             |
| 16                          |        |             |  |
| 15                          | 4      | 41423210    | TERM FORK 18-14 GA 10 STD INSULATED        |
| 14                          | 1      | 41423250    | TERM FORK,12-10GA 10STD NONINSULATED       |
| 12                          | 1      | 46104650    | PHENOLIC TWO ARMiHRtADED KNOB              |
| 11                          | 1      | 46104660    | 14 LB PUIMI AGNET, ADHESIVE BACKED         |
| 10                          | 1      | 330011      | UPPER PULItv ASSEMBLY                      |
| 9                           | 1      | 30016600    | LOWER PULLEY                               |
| 8                           | 1      | 3300SS      | EYESHIL0                                   |
| 7                           | 1      | 2200803     | DRAIN ASSEMBLY FIBERGLASS TANK             |
| 6                           | 1      | 2200802     | TANK, WATER BUCKET, MOLDED                 |
| 5                           | 1      | 46104340    | HANDLE, ADJUSTABLE 5116-18                 |
| 4                           | 1      | 310041200   | GUARD, TENSIONING SPRING                   |
| 3                           | t      | 330024      | TENSIONER MOUNTING KIT                     |
| 2                           | 1      | 330023      | TENSIONER ASSEMBLY WELOMENT                |
| 1                           |        |             |  |

# REPLACEMENT PARTS FOR THE 2300RP BELT SANDER



**CAT. NO.** 330010 **DESCRIPTION** Roller Platen Assembly



**CAT. NO.** 2622028 **DESCRIPTION** Lower Pulley



**CAT. NO.** 330011 **DESCRIPTION** Upper Pulley Assembly



Your motor may look different than above

**CAT. NO.** 2200110VMTR **DESCRIPTION** 1/60Hz 110 Volt 1 HP Motor



**CAT. NO.** 330024 **DESCRIPTION** Tensioner Mounting Kit



**CAT. NO.** 330015 **DESCRIPTION** Set of 5 Wheels and Bolts for Guide Bar



**CAT. NO.** 41900630 **DESCRIPTION** Water Solenoid Valve  
**42201953** Water Spray Nozzle

Minimum order for all parts is one each.

## CRL 4" x 106" Wet or Dry Abrasive Belts



| CAT. NO.     | GRIT   |
|--------------|--------|
| CRL4X10636X  | 36X    |
| CRL4X10640X  | 40X    |
| CRL4X10650X  | 50X    |
| CRL4X10660X  | 60X    |
| CRL4X10680X  | 80X    |
| CRL4X106100X | 100X   |
| CRL4X106120X | 120X   |
| CRL4X106150X | 150X   |
| CRL4X106180X | 180X   |
| CRL4X106220X | 220X   |
| CRL4X106320X | 320X   |
| CRL4X106400X | 400X   |
| CRL4X106600X | 600X   |
| CRL4X106CORK | POLISH |

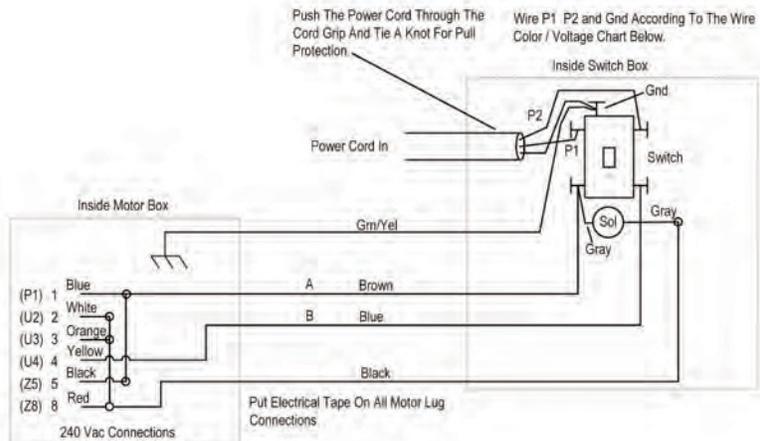
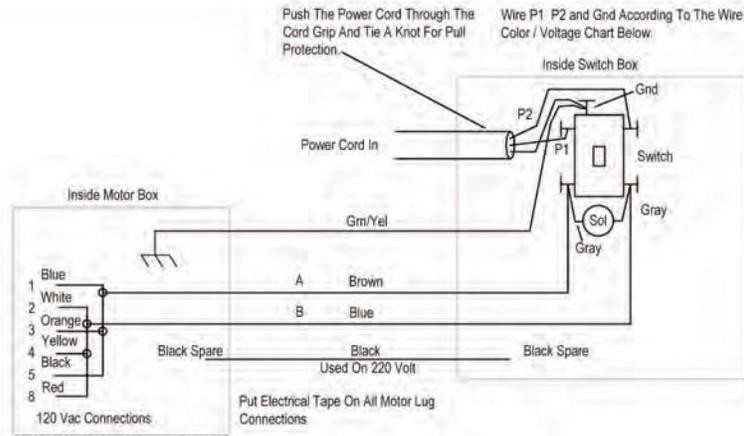
Five belts per box, except cork, which has two.

### Typical Use of Different Grits Available and Results of Their Use

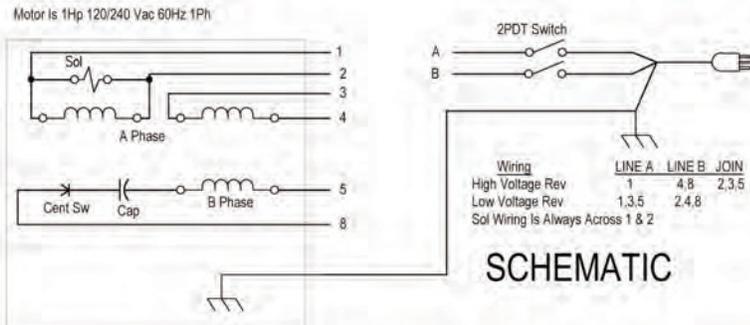
| GRIT | TYPE         | APPLICATION               | EXAMPLE                    |
|------|--------------|---------------------------|----------------------------|
| 60X  | Extra Rough  | For removing glass fast   | Mitered edge               |
| 80X  | Rough        | For quick contouring      | Auto glass edge            |
| 120X | Smooth       | For seaming and polishing | Desk top edge              |
| 220X | Extra Smooth | For fine frosted finish   | Step used before 400X belt |
| 400X | Fine         | For satin finish          | Finest opaque edge         |

# WIRING LAYOUT

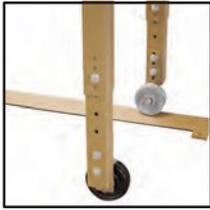
2300RP Electrical Specs:  
 115V AC 1/60 Hz  
 .74 kW  
 15 Service Amps



Motor Wire Numbers in ( ) Are For A Leeson Motor. The Motor Wire Numbers Not in ( ) Are For A Baldor Motor.



## ACCESSORIES FOR CRL/SOMACA 2300RP BELT SANDER



Legs Adjust to Fit Any Belt Machine



### CRL Universal "One-Man" Movable Glass Table

- Makes it Possible for One Person to Sand Large Pieces of Glass
- Fits Any Make Upright Belt Sander.  
(Table Shown in Front of 2300RP Sander)

One person can sand large pieces of glass without having to support the weight of the glass by using this CRL Universal "One-Man" Movable Glass Table. It rolls on a support rail in front of the sander, so the operator controls the amount of pressure the glass applies against the belt. The table top is carpeted, and has four pop-up ball casters, allowing easy glass rotation. All sides can then be sanded without having to lift the glass. The legs are adjustable to allow use with any upright belt sander. Table Guide Rail is 156" (3.96 m) long; Table Top is 36" x 60" (914 x 1524 mm). Minimum order is one each.

CAT. NO. 3LTRT

### CRL Belt Guard Safety Shields



CAT. NO. 2200SS



CAT. NO. 3300SS

CRL Belt Guard Safety Shields for the 2300RP Upright Belt Sanders protect your face and eyes from flying debris, giving you an added degree of safety. The 2200SS is standard equipment on early 2200RP Sanders up to Serial Number 67982. It can also be retro-fitted on older 2200RP Sanders. The 3300SS is standard on the 2200RP and 2300RP machines starting with Serial Number 67983. This is a safety attachment no shop should be without. Minimum order is one each.

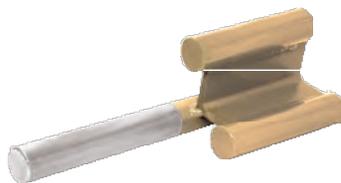
CAT. NO. 2200SS Fits 2200RP Machines up to Serial No. 67982

CAT. NO. 3300SS Fits 2200 and 2300RP Machines starting with Serial No. 67983

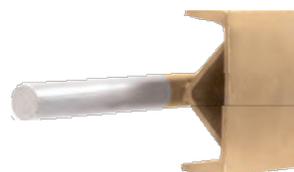
**CRL Platens** CRL Platens below can only be used on the 2300 machine. The PA100 adapter must be fitted. These accessories DO NOT fit the 2300RP, which has a Roller Platen attached. The BP2001 Bar Platen will produce a slightly rounded edge. The FP2002 Flat Platen will work best when flat edges are desired. The 3MP2200 3M Platen provides a hard metal plate with a soft rubber pad behind it for working both types of edges. The 330010, Roller Platen (page 9) can be used on the 2300 by using the PA100 below. Minimum order is one each.



CAT. NO. PA100



CAT. NO. BP2001



CAT. NO. FP2002



CAT. NO. 3MP2002

# TROUBLESHOOTING CHART

| TROUBLE                                    | PROBABLE CAUSE            | REMEDY   |
|--|---------------------------|--|
| 1. Won't Start With Switch On              | Power Failure             | a. Check your electric power source.<br>b. Check power to switch on machine.<br>c. Check power at motor.<br>d. Check starting capacitor on motor.  |
| 2. Water Does Not Flow                     | Electric Solenoid Failure | a. Flip switch on Belt Sander on and off, while holding hand on solenoid. If "snap" is felt, go to step 3. If not, check steps 1a, b, c.   |
| 3. Water Does Not Flow                     | Water Restriction         | a. Ensure source water is on.<br>b. Ensure manual water valve is open.<br>c. Remove and clean nozzle.  |
| 4. Belt Does Not Track                     | Out of Adjustment         | a. Adjust according to operating instruction manual.<br>b. If it still does not adjust, replace crowned pulleys/assemblies with Cat. Nos. 330011 Upper and Cat. No. 2622028 Lower.   |
| 5. Vibration or Noise                      | Bad Bearing               | a. Check by feeling roller platen shaft and top pulley shafts for vibration from bearing problem. Replace Top Pulley Assembly or Roller Platen Assembly.<br>b. Feel motor while running with and without belt. If vibrating, replace motor per operating instructions. |
| 6. Guide Rollers Won't turn                | Frozen Sleeve Bearings    | a. Replace rollers and bolts.<br>b. Lubricate rollers and bolts.   |
| 7. Excessive belt "wandering" when sanding | Weak Tension Spring       | a. Replace Tension Spring Kit.   |



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Many of our customers have found the most convenient method of ordering from CRL is through our full service web site. When you use [crlaurence.com](http://crlaurence.com) to place your orders you have so many options that other methods don't provide. You set the schedule and the pace because you can log on 24 hours a day, seven days a week. You can build a personal catalog; even make changes or additions to your orders online. There's no easier way!



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Melbourne, VIC. - Phone: (03) 9764-8322  
Toll Free Phone: 1800 424 275



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ANY DISPUTE BETWEEN THE CUSTOMER AND SELLER SHALL BE SETTLED BY ARBITRATION BETWEEN THE PARTIES, UNDER THE RULES OF THE AMERICAN ARBITRATION ASSOCIATION, CHICAGO, IL. SUCH ARBITRATION SHALL TAKE PLACE IN CHICAGO, IL, USA WITHIN 90 DAYS AFTER A REQUEST FOR ARBITRATION HAS BEEN FILED BY ONE OF THE PARTIES. BOTH PARTIES IRREVOCABLY CONSENT TO JURISDICTION IN COOK COUNTY, ILLINOIS.

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ALL CONTRACT AND OTHER CLAIMS (WHETHER BASED ON CONTRACT, TORT, EQUITY, TREATY, OR CODE) WITH RESPECT TO THE PRODUCTS SOLD AND ALL CLAIMS WITH RESPECT TO THE OPERATION AND USE OF THE PRODUCTS SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF , USA. THE SALES CONTRACT SHALL NOT BE GOVERNED BY THE UNITED NATIONS CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALES OF GOODS.

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**Important Information**

Model Number: \_\_\_\_\_  
 Serial Number: \_\_\_\_\_  
 Build Date: \_\_\_\_\_  
 Date of Delivery: \_\_\_\_\_



Model Number

Serial Number