

CRL HORIZONTAL BELT SANDER

MODEL H82 - FOR 4" X 106" SANDING BELTS



OPERATING INSTRUCTIONS



crlaurence.com • Toll Free (800) 421-6144 • Fax (800) 262-3299

CRL Glass Machinery • (866) 583-1377 • Fax (866) 584-9722 Int. Phone: (773) 242-2871
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INTRODUCTION

Your new CRL H82 Belt Sander was developed and improved through the years until it can now be called a unique piece of equipment that is in demand by many industries. The machine incorporates many fine features such as a direct drive, 1 H.P. motor, a gas cylinder-tensioned upper pulley, totally sealed ball bearings eliminating weekly lubrication, and a unique, steel water tank incorporated into the machine body.

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. Parts and expert advice can also be obtained directly from CRL Glass Machinery at (866) 583-1377. International: (773) 242-2871.

BELT SANDER SET UP

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 your desired location. For best results, the sander should be level and secured to the floor with anchors, fastened through the holes provided in the sander base.
2. With the belt sander switch in the OFF position, plug the sander into a grounded outlet of the correct voltage. Electrical Specifications for each model are located on the Serial Number Plate near the power switch. **NOTE: A ground plug is provided for your safety. PLEASE DO NOT ALTER IT IN ANY WAY.** Now turn the switch on to see if the motor will run. If it does, go to the next step. If it does not run, check all electrical connections and try again. **If you still have a problem, please call us before going any further.**
3. **Unplug the sander before going any further.** Now you can connect the sander to your city water supply, using copper tubing and a 1/4" NPT (National Pipe Thread) male connection to the 1/4" NPT female connection in the electric water valve (Photo 1 on Page 4). Note the "flow direction" 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, or connect a hose for discharging into a flume or other device to allow sediment to settle and water to drain off. **NOTE: If drained into a sewer, abrasive sand grindings may accumulate and plug the drain.**
4. Plug the machine in again. Be sure the manual water flow control valve (after the electric water valve) has the handle turned in the direction the water is flowing; this is the OPEN position. Turn the 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 (Photo 1 on Page 4) can be adjusted to reduce the water flow. Do not use any more water than needed to keep the belt wet. Turn the machine OFF. Unplug the sander and go to the next step.
5. Pull the side door to open. It is held by magnetic closures. Now install a belt over the motor pulley and pull the black handle on the tensioner mechanism toward the motor. This will allow the belt to be placed on the tensioner pulley. Be sure the belt is not wrapped over the water nozzle.
NOTE: When grinding glass, only "wet or dry" belts with silicon carbide grain should be used. They come with two types of splices: overlapping or butt splices. Butt splices can be run in either direction (such as CRL's finger splice). Overlapping splices can be run only in the direction indicated by arrows on the inside of the belt.
6. With the sander still unplugged, pull the belt by hand through several cycles to adjust the tracking mechanism. Do this as follows: Below the tensioner assembly (as viewed from the side of the sander) is a metal, star shaped knob. By turning this knob clockwise you will move the belt off of the pulley. By turning this knob counterclockwise you will move the belt onto the pulley. Turn this knob until you have adjusted the belt so it will stay in the middle of both pulleys when pulling the belt by hand.
7. Now plug the machine back in, turn the switch ON, and perform the fine tracking adjustments. The goal is to have the belt track in the middle of both the motor and tensioner pulleys.
8. The belt tension on the H82 is not adjustable, and is controlled by the gas cylinder on the tensioner. No adjustment is needed, and the cylinder is available as a replacement part should the tension ever become too weak.

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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.
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.

For a flat, seamed edge, use a belt of medium grit and lightly bevel the edges. 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

None required.

HOW TO REMOVE AND REPLACE THE ELECTRIC WATER VALVE

1. **Unplug the machine power supply.**
2. Turn off city 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 valve to the nozzle by pushing up on the quick-connect collar and pulling down on the plastic water line.
4. Open the switchbox and disconnect the two gray wires; one from the switch and one from the taped wire (yellow) connection in the box.
5. On the back of the switch box, rotate the lock ring clockwise (as viewed from the back) with a screwdriver. This will allow the valve to be removed.
6. Unscrew the complete valve assembly from the switchbox. Remove the shut-off valve and quick-connect fitting from the old valve and, using thread sealer, install it into the "OUT" side of the new valve (the "OUT" side is indicated by the small arrow on the side of the valve, see Photo 2 on Page 4).
7. Feed the two gray wires from the new valve into the switchbox and screw the valve onto the fitting. Tighten the lock ring by turning it counterclockwise against the valve. **DO NOT OVERTIGHTEN.**
IMPORTANT: Be sure that the valve is situated as shown in Photo 1 on Page 4, with the arrow on the brass fitting pointing down. The quick-connect fitting should be pointing down. The brass fitting on the valve will rotate 360° to allow it to be set in this position.
8. Connect the nozzle water tube by pushing it into the quick-connect fitting.
9. Inside the switchbox, connect the gray wires; one to the switch and the other to the wired connection with the yellow wire. **Be sure to wrap the wire connection with electrical tape.**
10. Connect the city water supply and replace the cover to the switch box. Plug in the machine power supply.
11. Turn on city water supply. Turn on the machine and check for leaks. Check that there is water spraying from the nozzle.
12. Make sure the nozzle is NOT spraying when the power is shut off, and make a final check for leaks on all connections.

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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 motor pulley, measure the distance from the pulley to the shaft end (Photo 4, Page 4). Record this measurement so you can replace the pulley at this same distance. This will help keep the belt alignment to original specs.
3. Loosen two set screws on the pulley with a long 5/32" Hex/Allen wrench. These can be accessed through the two holes in the pulley. Remove the pulley.
4. Disconnect the wiring from the motor by removing two screws on the round dust cover end plate and two screws from the metal electrical cover on the motor.
5. On 120 volt motors, pull the Brown wire from motor lug No. 1 (per the drawing on the motor) and the Yellow and Blue wires from motor lug No. 2.
6. Disconnect the Green ground wire from the ground screw. (See wiring diagrams on page 8)
7. Those are the three power wires plus a green ground wire coming from the power line in. Mark which motor connection each one goes to for rewiring.
8. With the power wires disconnected from the motor, the power cable can be disconnected from the motor.
9. The four bolts holding the motor to the machine can now be loosened.
10. The motor itself weighs about 40 lbs (18 kg). Have a helper hold the motor up while the bolts are loosened. Slowly pull the motor from the machine.
11. Align the new motor with the bolts. Tighten the bolts from inside the tank.
12. Reconnect the power cable and connect the four wires to the motor lugs as removed and replace the metal cover. 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.
13. 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 shaft" measurement that was made in step #2. The water supply can now be turned back on.
14. Turn the belt through two complete rotations by hand and check the alignment. Adjust as needed to make the belt track straight on both wheels.

Remove and Replace Sanding Belt, Motor and Tensioner Pulleys

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 side of the machine open, firmly pull the black tensioner handle.

This will allow the belt to be removed from that pulley and then from the motor 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. Check that the nozzle is not hooked on the belt and pull the belt through two complete rotations to check the tracking.

Motor Pulley

Before removing the motor pulley, measure and record the distance from the shaft end of the pulley, as shown in Photo 4 on Page 4. The Lower Pulley is removed by first removing the sanding belt and then removing two set screws, accessed through two holes in the pulley, with a 5/32" Hex/Allen wrench (Photo 5, Page 4).

Tensioner Pulley

The Tensioner Pulley is mounted on a shaft with two sealed bearings and lock rings. It is recommended that the pulley, shaft, and bearings be replaced as a unit. Loosen the two square head screws on the pulley shaft support on the tensioner (Photo 3, Page 4). Measure the pulley to shaft end distance and record it. Slide the shaft out toward the pulley.

Lightly coat the new shaft with grease and insert the new shaft and pulley into the support with the end of the shaft protruding the recorded distance past the end of the support. (Photo 3, Page 4) Tighten the square head screws. On older machines you may need a wood or plastic hammer to tap the shaft out. Do not hit the pulley itself with anything.

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PULLEYS, SHAFTS AND BEARINGS

For ease of maintenance and durability, the Tensioner Pulley Assembly is supplied as one-piece. Replacing the bearings or shaft alone requires a press and an experienced operator. Because the bearings are some of the few parts of the H82 that may need replacement, it is sold as a unit assembly. These assemblies can be replaced quickly with simple hand tools by following the instructions on Page 3 of this manual. Assistance with any maintenance operation on the H82 is available by calling the CRL Glass Machinery at (866) 583-1377. Parts can be ordered online at: crlaurence.com

REFERENCE PHOTOS

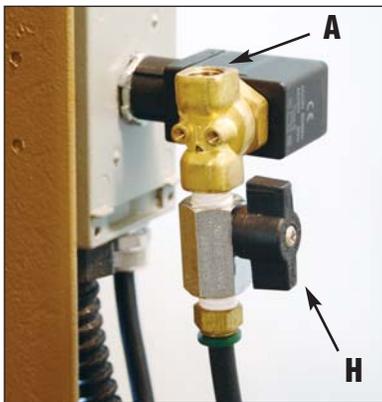


Photo 1. Electric Water Solenoid, Valve and Quick-Connect Fitting. Connect water supply at "A" -1/4" NPT. Water Flow Control Valve "H" can be used to regulate water spray.

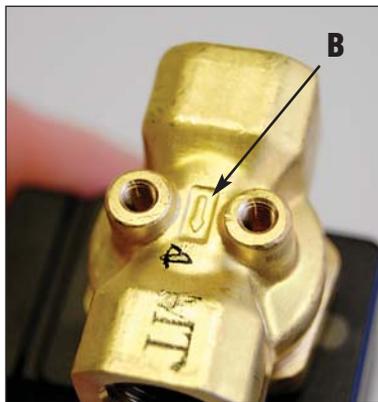


Photo 2. Electric Water Solenoid showing flow direction arrow "B" on fitting.

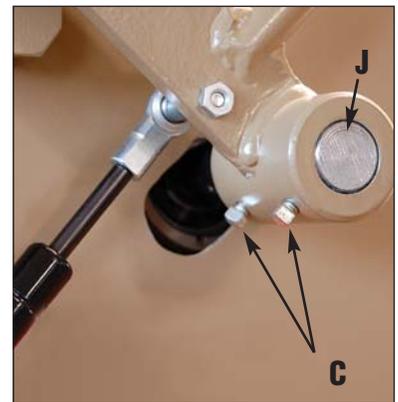


Photo 3. Square Head Screws "C" holding the Tensioner Pulley Shaft "J". Loosen these to remove the Tensioner Pulley Assembly.

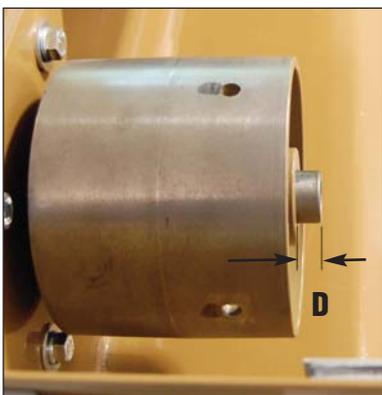


Photo 4. Measure Pulley to Shaft End distance "D" before removing Motor Pulley.

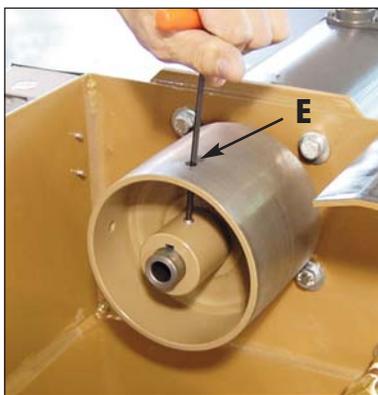


Photo 5. Loosen two set screws on the Lower Pulley with a 5/32" Hex/Allen wrench. Holes in the Pulley "E" line up with the two set screws.

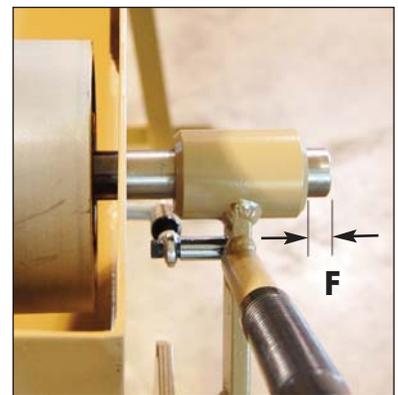
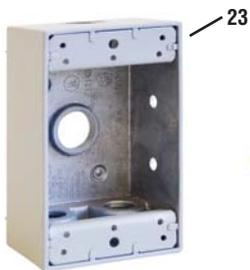
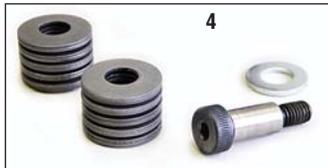
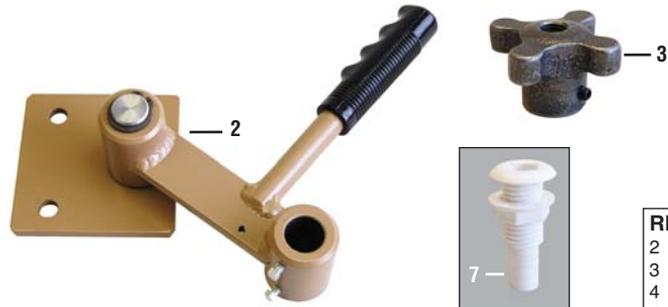


Photo 6. Measure the distance "F" from the Tensioner to the shaft end before removing the Tensioner Pulley Assembly.

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MODEL H82 - FOR 4" X 106" SANDING BELTS

REPLACEMENT PARTS FOR THE H82 HORIZONTAL BELT SANDER



REF.	QUAN.	CAT. NO.	DESCRIPTION
2	1	330013	TENSIONER ASSEMBLY
3	1	330007	ADJUSTMENT KNOB
4	1	330014	TENSIONER MOUNTING KIT
5	1	2200110VMTR	MOTOR, 1 HP, 110/220V, 50/60 HZ, 1800 RPM
7	1	2200803	TANK DRAIN FITTING
10	1	330112	TENSIONER, GAS CYLINDER (100 PSI)
11	2	45025760	M6 x 45mm SOCKET HEAD CAP SCREW
12	2	46902061	SPACER, 1/2 OD x 1/4 ID x 15/16
13	1	2622028	LOWER PULLEY
15	1	330011	UPPER PULLEY ASSEMBLY
18	1	46902390	PLUG, 1-3/4" SQUARE, TUBE, POLY, BLACK
19	1	46902380	1-1/4" SQUARE CAP, SMOOTH, BLACK
20	1	11428010	CORD, PLUG SET, 8 FT. USA
21	1	11401670	CORD GRIP FITTING
22	1	41420280	TOGGLE SWITCH
23	1	36957500	JUNCTION BOX
24	1	37028601	ELECTRICAL CONTROL BOX COVER
25	1	41900630	SOLENOID VALVE
26	1	42053492	BALL VALVE, 1/4NPT
27	2	46104660	14 LB PULL MAGNET, ADHESIVE BACKED
28	2	42101880	QUICK CONNECT FITTING, 3/8"
29	30"	49900020	TUBING, 3/8" OD x 30", BLACK (2.4m) -Sold per foot
31	1	12028614	BRASS COUPLING, FULL, 1/4"
32	1	42001614	BRASS NIPPLE, 1/4" x 1-1/2
33	1	42011014	BRASS ELBOW, 1/4", 90°
35	1	42201953	BRASS NOZZLE
36	2	41400550	STRAIGHT CONNECTOR, 3/8", BLACK NYLON
37	2.5ft.	23600590	CONDUIT, 3/8" PVC, BLACK -Sold per foot
38	2	45001890	ROUND HEAD SCREW, .0-24 x 5/8"
39	1	15000260	HEX HEAD CAP SCREW, 5/16"-18 x 1/2"
40	2	15000050	HEX HEAD CAP SCREW, 5/16"-18 x 1"
41	4	45113510	WASHER, 5/16"
42	2	15110360	LOCK WASHER, 5/16"
43	2	15100101	NUT, 5/16"-18
44	4	15000560	HEX HEAD CAP SCREW, 3/8"-16 x 1.25"
45	4	15113950	WASHER, 3/8"
46	4	15110371	LOCK WASHER, 3/8"
47	1	11402651	CONDUIT NIPPLE, 1/2" x 1"
48	2	11403450	CONDUIT LOCKNUT, 1/2"
50	8	41423210	TERM FORM, 18-14 GA 10 STD INSULATED
51	13	41422540	TERM RING, 14-16 GA, 8 STD NON-INSULATED
52	2	45100053	BRASS HEX NUT, 10-24,
53	2	15018443	BRASS SCREW, RH SLOTTED, 10-24 x 1/4"
55	1	37965400	CAUTION PLATE

Minimum order for all parts is one each.

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REPLACEMENT PARTS FOR THE 2200RP BELT SANDER



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



CAT. NO. 2622028 **DESCRIPTION** Drive Pulley



Your motor may look different than above

CAT. NO. 2200110VMTR 110 Volt 1 HP Motor
2200220VMTR (for AU22) 220 Volt 1 HP Motor



CAT. NO. 330112 **DESCRIPTION** 100 psi Tensioner Gas Cylinder



CAT. NO. 41900630 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

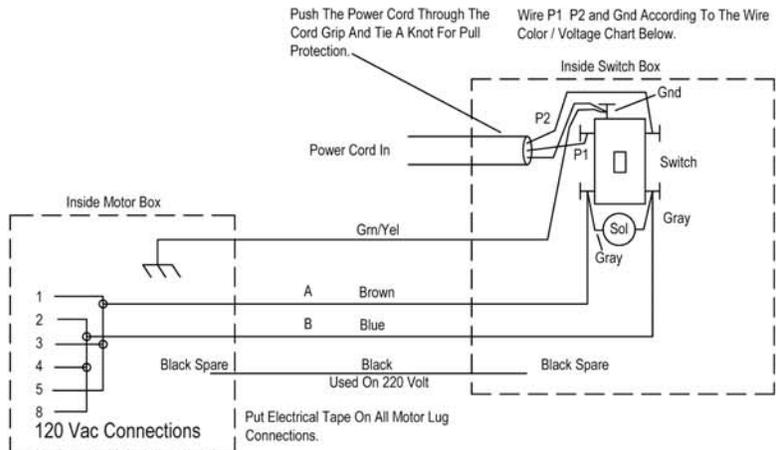
GRIT	TYPE	APPLICATION	EXAMPLE
60X	Extra Rough	For removing glass fast	Mitered edge
80X	Rough	For quick contouring	Auto glass edge
120X	Smooth	For seaming and polishing	Desk top edge
220X	Extra Smooth	For fine frosted finish	Step used before 400X belt
400X	Fine	For satin finish	Finest opaque edge

CRL HORIZONTAL BELT SANDER

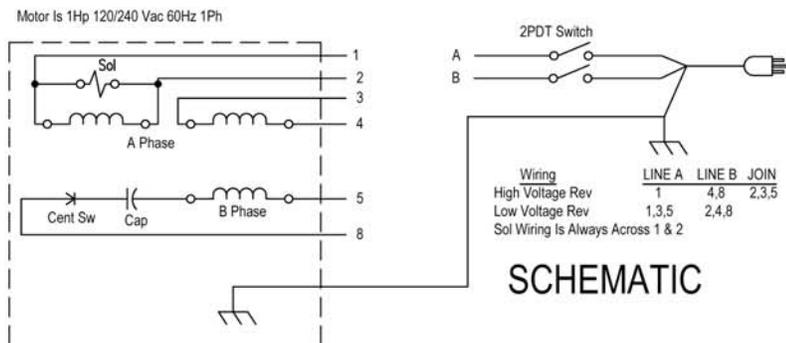
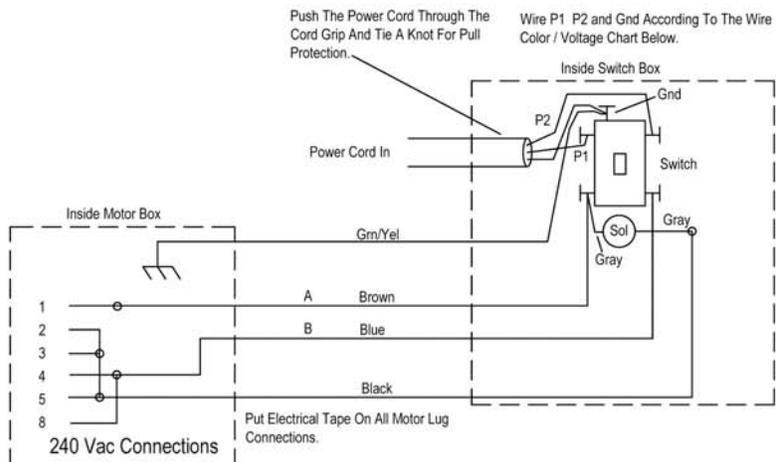
MODEL H82 - FOR 4" X 106" SANDING BELTS

WIRING LAYOUT

H82 Electrical Specs:
 115V AC 1/60 Hz
 .74 kW
 15 Service Amps



AUH82 Electrical Specs:
 230V AC 1/50 Hz
 .74 kW
 10 Service Amps



CRL HORIZONTAL BELT SANDER

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TROUBLESHOOTING CHART

TROUBLE	PROBABLE CAUSE	REMEDY
1. Won't Start With Switch On	Power Failure	<ul style="list-style-type: none"> a. Check your electric power source. b. Check power to switch on machine. c. Check power at motor d. Check starting capacitor on motor.
2. Water Does Not Flow	Electric Solenoid Failure	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> a. Ensure source water is on. b. Ensure manual water valve is open. c. Remove and clean nozzle.
4. Belt Does Not Track	Out of Adjustment	<ul style="list-style-type: none"> a. Adjust according to operating instruction manual. b. If it still does not adjust, replace crowned pulleys/assemblies with Cat. Nos. 330011 (Tensioner) and Cat. No. 2622028 (Motor)
5. Vibration or Noise	Bad Bearing	<ul style="list-style-type: none"> a. Check by feeling tensioner pulley shafts for vibration from bearing problem. Replace Tensioner Pulley Assembly. b. Feel motor while running with and without belt. If vibrating, replace motor per operating instructions.

SOMMER & MACA GLASS MACHINERY COMPANY

A DIVISION OF C.R. LAURENCE

Sommer & Maca
GLASS MACHINERY DIVISION

- All Machines Shown are Available for Shipment Worldwide



VE1P
One-Spindle Glass Edger



BM64B
64" Upright Belt Sander



CRL2
Glass Drilling Machine



DBS106
Dry 106" Twin Belt Seamer

DBS106W
Wet 106" Twin Belt Seamer



2402502
Tilt-Top Cutting Table



VEW60
60" Vertical Glass Washer



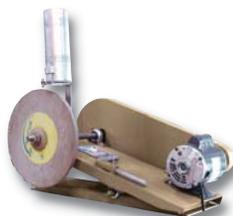
GM24 / SM24
Glass Grinding/Smoothing Mills



TD25
Vertical Glass Drilling Machine



SM37
Glass Polisher and Scratch Remover



FG14BM
Finger Pull Machine



VE2PLUS2
Two-Spindle Glass Edger

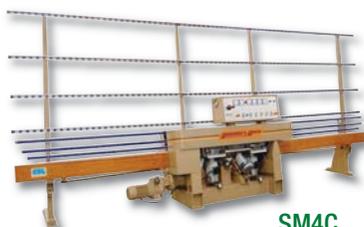


TTW606
Glass Washing Machine

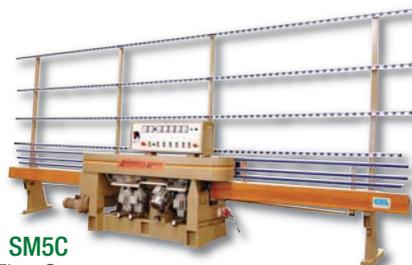
The Sommer & Maca Glass Machinery Company has built and serviced innovative, specialized machinery for the glass industry for over 80 years. Sommer & Maca machines are built to exact specifications and tested by machinery experts, then crated and shipped for use throughout the world. An extensive inventory of service parts is maintained, and trained technicians can provide installation and service assistance for the entire line.

We invite you to contact us regarding our line of quality glass machinery. Let CRL/Somaca help you design the perfect machines and glass processing equipment to suit your needs. Call our Glass Machinery Division at (866) 583-1377. You can also send e-mail to somaca@crlaurence.com.

THREE **NEW** MACHINES NOW AVAILABLE



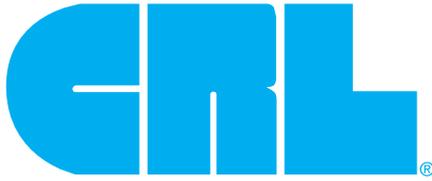
SM4C
Four-Cup Flat Edger



SM5C
Five-Cup Flat Edger



SM70V
Closed Top 70" Four-Brush Vertical Glass Washer



C.R. Laurence Customer Services

We are always pleased to receive your orders, and anxious to fill them as promptly as possible. You can place your order at CRL in a number of ways. Our people will do their best to make your shopping experience at CRL pleasant and time-efficient.



Methods of Ordering

Online at crlaurence.com

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** 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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When we introduced toll free fax service in the '80's we had no idea how popular it would become, but now our customers send us up to 1,000 orders or quote requests every business day! Fax ordering is very convenient because you can fill out your own purchase orders and then just fax them to us. You can be specific about shipping instructions or other details that will help us serve you. To send your orders or quote requests by toll free fax from anywhere in the **U.S. or Canada**, just dial **(800) 262-3299**. / **Australia: 1800 813 013**



Toll Free Customer Service Order Desk

For over 30 years CRL has provided toll free ordering at **(800) 421-6144**. When you call our Customer Service Order Desk you'll find CRL people who are trained to provide assistance with CRL products and services. They have instant access to pricing, stock availability, and the status of your account, plus they can connect you to CRL Technical Sales personnel if you need specialized product assistance. Order Desk hours are 6 am to 5 pm (Pacific Time) Monday through Friday, and 7 am to 12 pm Saturdays.
AUSTRALIA: Sydney, NSW. - Phone: (02) 9851-3444
Melbourne, VIC. - Phone: (03) 9764-8322
Toll Free Phone: 1800 424 275



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Every CRL regional warehouse has a Will Call/Trade Counter where you can place and pick up your orders in person. And when you place your order in advance by phone, fax, or over the Internet we can have it ready and waiting for you, which can save you a lot of time. Will Call/Trade Counter hours are 7 am to 5 pm Monday through Friday, and 8 am to 12 pm Saturdays. Some of our most experienced people staff our Will Call/Trade Counters, and they are always happy to see you. Remember, to save time place your order in advance.

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C.R. Laurence is a manufacturer and wholesale distributor. Possession of our catalogs, or any other CRL sales literature, does not constitute an offer to sell. Orders from individuals (except professional tradesmen) may not be accepted.

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CRL HORIZONTAL BELT SANDER

MODEL H82 - FOR 4" X 106" SANDING BELTS

TERMS AND CONDITIONS

MACHINERY WARRANTY STATEMENT

C.R. LAURENCE CO., INC. ("SELLER") WARRANTS PRODUCTS OF ITS MANUFACTURE TO BE FREE FROM DEFECTS IN MATERIALS OR WORKMANSHIP IN NORMAL USE FOR (12) MONTHS FROM THE DATE OF SHIPMENT (UNLESS A SHORTER PERIOD IS PROVIDED ELSEWHERE IN THIS DOCUMENT). SELLER'S OBLIGATION AND BUYER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO REPAIR OR REPLACEMENT, AT SELLER'S SOLE OPTION, OF DEFECTIVE PARTS WITHIN THE WARRANTY PERIOD, PROVIDED BUYER GIVES SELLER IMMEDIATE WRITTEN NOTICE OF SUCH ALLEGED DEFECTS, AND, IF REQUESTED BY SELLER, RETURNS THE DEFECTIVE PARTS TO SELLER'S FACTORY PREPAID BY BUYER FOR SELLER'S INSPECTION. THE WARRANTIES CONTAINED HEREIN ARE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. SELLER SHALL IN NO EVENT BE LIABLE FOR CONSEQUENTIAL DAMAGES. WARRANTIES HEREUNDER SHALL NOT APPLY TO ANY EQUIPMENT THAT HAS BEEN DAMAGED BY MISUSE, NEGLIGENCE, ACCIDENT, OR FAILURE TO PERFORM MAINTENANCE. THIS WARRANTY SHALL BE NULL AND VOID (1) IF THE MACHINE IS USED IN A MANNER CONTRARY TO INSTRUCTIONS OR AFTER MALFUNCTION IS NOTICED; (2) IF THE BUYER DOES NOT HONOR TERMS OF PAYMENT; (3) IF THE MACHINE IS MODIFIED OR ALTERED.

EQUIPMENT RESOLD BY SELLER

IN THE CASE OF EQUIPMENT FURNISHED BY SELLER BUT NOT OF SELLER'S MANUFACTURE, SELLER'S LIABILITY TO BUYER HEREUNDER IS LIMITED TO SUCH WARRANTY AS THE MANUFACTURER MAKES TO SELLER, BUT IN NO CASE GREATER THAN (12) MONTHS FROM DATE OF SHIPMENT BY SELLER.

LIMITATION OF LIABILITY

SELLER'S SOLE REMEDY SHALL BE REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCT. IN NO EVENT SHALL SELLER BE LIABLE FOR ANY OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSONS OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) OR PUNITIVE DAMAGES.

DISPUTE RESOLUTION

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.

LAW

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 ILLINOIS, USA. THE SALES CONTRACT SHALL NOT BE GOVERNED BY THE UNITED NATIONS CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALES OF GOODS.

INVALIDITY OF PROVISIONS

IF ANY PROVISIONS OF THESE TERMS AND CONDITIONS ARE HELD TO BE INVALID, ILLEGAL OR UNENFORCEABLE, THE REMAINING PROVISIONS OF THESE TERMS AND CONDITIONS SHALL NOT IN ANY WAY BE AFFECTED OR IMPAIRED THEREBY.

C.R. Laurence Co., Inc.

Glass Machinery Division
5501 West Ogden Avenue, Cicero, IL 60804, U.S.A.

Important Information

Model Number _____

Serial Number _____

Build Date _____

Date of Delivery _____



Model Number

Serial Number

Build Date

CRLGM_06/12

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