

DupliSkate RS6

Operating Manual RS6 Pro



510 HODGE, ST-LAURENT, QC H4N 2A4

TOLL FREE: 1-877-262-5801 ~ TEL.: 514-382-1140 ~ FAX: 514-382-8249 ~ www.dupliskate.com

DupliSkate RS6

SET-UP

- REMOVE THE RS6 FROM THE SHIPPING SKIDS.
- REMOVE ALL THE WRAPS.
- REMOVE THE BLOCK OF WOOD FROM UNDER THE MOTOR ARM.
- LEVEL THE RS6 ADJUSTING THE LEVELING FEET AND USING THE BULL'S EYE LEVEL LOCATED AT THE INSIDE BACK LEFT HAND CORNER ON TOP OF THE CONTROL BOX.
- CONNECT THE YELLOW FEMALE PLUG TO THE VACUUM UNIT. LOOSEN THE HOSE CLAMP ON THE GREY HOSE AND ATTACH IT TO THE VACUUM UNIT. TIGHTEN THE HOSE CLAMP. PUSH THE VACUUM UNIT UNDER THE RS6 SO THE DUPLISKATE DECAL EACES OUT.
- PLUG THE YELLOW MALE POWER CORD INTO A POWER BAR OR A 110V OUTLET.
- REMOVE SHIMS FROM UNDER THE GRINDING MOTOR.
- BY HAND, TURN THE TABLE UNTIL IT IS IN THE HOME POSITION WITH THE BLACK ACTIVATING PLATE OVER THE SENSOR IN THE FRONT OF THE MACHINE.

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IMPORTANT SAFEGAURDS

The following advisory warnings should be read and utilized whenever the machine is in operation:

GROUNDING INSTRUCTIONS - The sharpener is equipped with an approved 3-conductor cord and a 3-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal. Replace or repair a damaged or worn cord immediately.

AVOID DANGEROUS ENVIRONMENT - Do not use sharpeners in damp or wet locations or expose them to rain. Keep work area well lighted.

DO NOT OPERATE SHARPENER IN GASEOUS OR EXPLOSM ATMOSPHERE - Grinding sparks could ignite the flammable substances.

KEEP GUARDS IN PLACE and in working order.

KEEP WORK AREA CLEAN - cluttered areas and benches invite accidents.

KEEP CHILDRENAWAY -All visitors should be kept a safe distance from work area.

MAKE WORKSHOP KID PROOF with padlocks or master switches.

WEAR PROPER APPAREL - don't wear loose clothing, gloves, neckties or jewellery to get caught in moving parts. Nonslip footwear is recommended.-Wear protective hair covering to contain long hair.

USE SAFETY GLASSES * Also use face or dust mask as cutting operation is dusty.

DO NOT OVERREACH - keep proper footing and balance at all times.

USE RIGHT TOOL - Do not force tool or attachment to do a job it was not designed for.

USE RECOMMENDED ACCESSORIES – Consult the Owner's manual for recommended accessories. The use of improper accessories may cause hazards.

USE ONLY WHEEL HUBS FURNISIIED WITH THIS SHARPENER.

DO NOT FORCE SHARPENER - It will do the job better and safer at the rate for which it was designed.

DO NOT OVERTIGHTEN GRINDING WHEEL NUT.

CHECK FOR DAMAGED PARTS - Before use of the sharpener, the grinding wheel, guard, or any other part that could be damaged should be carefully checked to make sure it will operate properly and perform its intended function. Check for alignment of moving parts, breakage of parts, binding of moving parts, mounting and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

REPLACE CRACKED GRINDING WHEEL IMMEDIATELY - USE ONLY MANUFACTURER APPROVED GRINDING WIIEELS.

MAINTAIN TOOLS WITH CARE - Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

DISCONNECT SIARPENER BEF'ORE SERVICING - When changing accessories such as grinding wheels, diamonds, etc.

AVOID UNINTENTIONAL STARTING - Make sure switch is in OFF position before plugging in.

ALL DIAMOND ADJUSTMENTS SHOULD BE MADE WITH THE MOTOR OFF.

NEVER ENGAGE MOTOR UNTIL "LEXAN" GUARD IS SECURED IN POSITION.

NEVER LEAVE SHARPENER RUNNING UNATTENDED - Turn power off. Do not leave sharpener until it comes to a complete stop.

NEVER STAND ON SHARPENER - Serious injury could occur if the sharpener is ripped or if the cutting tool is unintentionally contacted.

DO NOT ADJUST MACHINE BOLTS WITHOUT FACTORY APPROVAL.

KNOW YOUR SHARPENER - Read the Owner's manual carefully. Know your applications and limitations as well as the specific potential and hazards peculiar to this skate sharpener.

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Clamping of the Skate

- Open the center lexan cover using the handle.
- Place between clamping jaws.
- Opposite to one another.
- Centred lengthwise.
- At least ¼" of steel showing.
- Clamp levers down so boot is tightly secured.
- Close the lexan cover.

System Operation

- Open the right lexan cover to adjust diamond hollow grind.
- Lift and turn red button to power up machine and grinding wheel.
- You will now be able to dress the grinding wheel to desired hollow grind.
- The dust catcher has a magnet which allows the dust catcher cover to stay up. This will enable the operator to adjust the hollow grind or change the grinding wheel easily.
- Close the lexan cover.
- Press the green button to start the rotary skate sharpening process.
- Note: the rotary table will stop if the covers are opened. The table will resume automatically when the cover is closed again. This is due to a new micro switch which has been added to the RS6.
- The RS6 will rotate 3 times. Each skate will be sharpened with three passes. (Optional: Apply Dupliskate Lube Stick before final pass to ensure a smoother finish.) After three passes, the rotary movement will stop. Press down on the red button to stop the machine.

Finishing Process

- Take skates out of respective clamps by lifting levers up.
- Eliminate steel burs by "cleaning" the blade on each side of the blade, with the Dupliskate hand stones. A slightly angled full stroke up and down the length of the blade, on each side, is recommended.

Sharpening Figure Skates

- On the outside of the RS6, there is a leveler knob which is needed for sharpening figure skates.
- Figure Skates have "picks" at the toe portion of the skate.
- Picks facilitate various maneuvers.
- Picks, in general, are not to be sharpened or grinded.
- In order to prevent this, as the figure skate approaches the grinding wheel, simply pull the leveler knob so that the grinding wheel does not make contact with the pick guard.
- Once, the grinding wheel passes the pick guard, release the leveler knob so that the grinding wheel makes contact with the skate blade.
- Dupliskate pick guards can be used to simplify this process. The pick guard must be applied to the skate blade after the skate has been secured in the clamp.

External Figure Skate Adjustment



RS6 Dust Control System

- The RS6 comes equipped with a 660 CFM vacuum containment device. The vacuum must be emptied on a regular basis, approximately once a month. The filter within the circular door must be taken out and cleaned once a month. The use of an air hose is recommended. The more often the device is cleaned, the more effective it will be.

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NTPC System

- The NTPC (no touch precision clamping) system is a patent pending configuration that allows all types of skates to be sharpened with consistently even edges. No adjustments are necessary. The challenge of blade width adjustment and all its subsequent complications, is now a thing of the past. Simply clamp in the skates as per the earlier noted directions, and witness the precision automation of the RS6.

Changing the Grinding Wheel

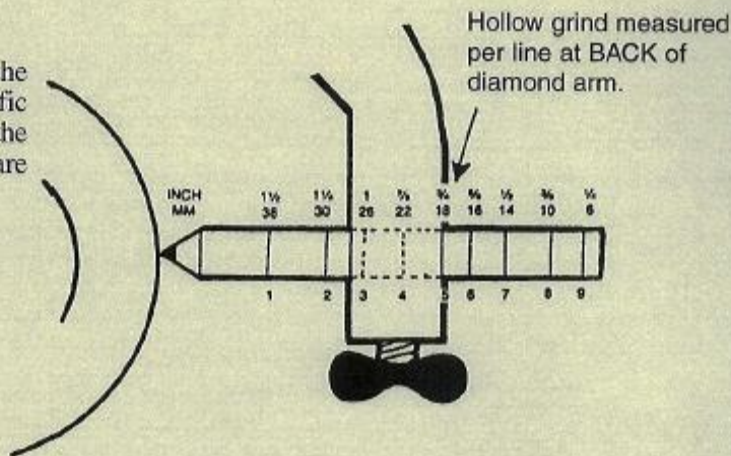
- Lift right lexan cover using the handle.
- Lift up dust catcher cover. It will stay up on its own.
- Slide lexan wheel cover to the right.
- Loosen and remove circular hub nut.
- Insert new grinding wheel on shaft.
- Replace and finger tighten hub nut.
- Slide lexan cover back over wheel.
- Release dust catcher cover.
- Release right side lexan cover.

Troubleshooting

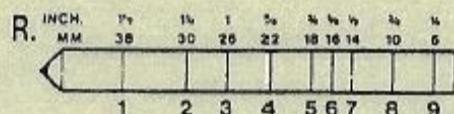
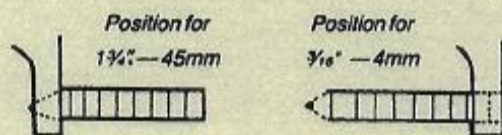
- The rotary table must be in the “home” position in order for the automated process to start. If you press the green start button and nothing happens, or the grinding wheel stops turning, this indicates that the table is not in the “home” position. In order to get it in the proper position, with the power on, press the green button. The rotary table will turn and find the “home” position. Once the table has found the “home” position and stops turning, press the green button once again and the sharpening process will start.
- The RS6 is engineered to sharpen with even edges in an automated manner. If the machine is producing consistently “uneven edges, this indicates that a part has become loose or dislodged from its original location. Please contact us toll free at 1-877-262-5801 so we can analyze and rectify any such issues.
- A poor quality finish can be caused by several factors”
 - Worn out diamond – change diamond
 - Improperly balanced grinding wheel - change wheel
 - Not adequate pressure force on skate blade – increase pressure by turning knob on blue arm

HOW TO ADJUST AND POSITION THE DIAMOND DRESSER

Different hollow grinds are achieved by dressing the wheel. Specific hollow grinds are the result of specific positions of the diamond dresser in the arm, as per the chart supplied on each Dupliskate. Line readings are taken from the BACK of the diamond dresser arm.



EXTREME POSITIONS

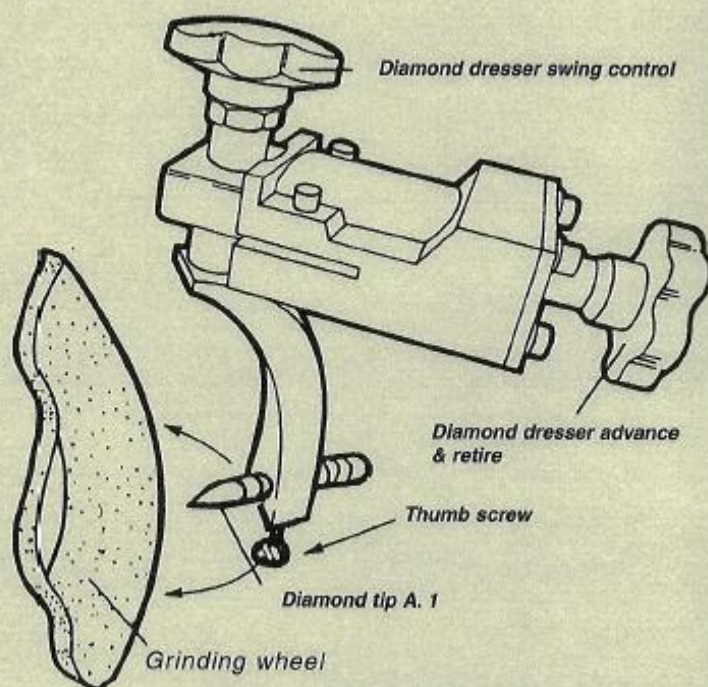


HOW TO DRESS A GRINDING WHEEL

- Proper Dressing of the Grinding Wheel is the most important and delicate part of sharpening a skate.
 - Bring the Diamond to the right position in the Diamond arm
 - Bring the Diamond Arm back until the tip is BEHIND the stone
 - With the Diamond tip at the centre of the stone, move the Diamond Arm slowly forward until the Diamond just lightly touches the stone.
- If the Hollow Grind is to be changed, dress the stone by rapidly (approximately 1 second) moving the dresser across it.
 - in order to give the stone its correct convex shape
 - to clean off its grinding surface.
- Dress the stone taking 5 seconds to go across in order to polish the grinding surface.

The Diamond:

- Keeps the stone surface very round
- Eliminates all particles of metal dust
- Makes available required Hollow Ground.



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