

ROCK RASCAL Model "T & TM" Saw & Grinder



Model "TM" with Motor shown

ASSEMBLY: MACHINE MAY BE MOUNTED ON A TABLE, WORK BENCH OR ON A PIECE OF HEAVY PLYWOOD IF PORTABILITY IS DESIRED. FASTEN SECURELY WITH BOLTS OR SCREWS. THE MOTOR MAY BE MOUNTED BEHIND OR BELOW THE MACHINE. TO INSTALL A NEW V-BELT, REMOVE THE FOUR BEARING CAP BOLTS. SLIP THE BELT OVER THE SHAFT AND REPLACE THE FOUR BEARING CAP BOLTS. CAUTION: DO NOT OVERTIGHTEN THE BEARING CAP BOLTS. OVERTIGHTENING WILL CAUSE TOO MUCH PRESSURE ON THE BEARINGS, DISTORTING THE BEARING RACE AND CAUSING PREMATURE BEARING WEAR!

THIS UNIT IS FACTORY EQUIPPED WITH A 2" PULLEY. A 1/4 H.P. 1725 RPM MOTOR WITH 2" PULLEY IS RECOMMENDED FOR MOST GRINDING AND SAWING OPERATIONS. WHEN USING A THIN DIAMOND BLADE LIKE THE PRO-SLICER 0.006 BLADE, USE 4" PULLEY ON THE MOTOR.

LUBRICATION: EQUIPPED WITH SEALED BALL BEARINGS. NO LUBRICATION IS REQUIRED.

INSTALLING THE DIAMOND BLADE: TO INSTALL DIAMOND SAW BLADE, REMOVE HEX NUT (LEFT HAND THREAD). PLACE BLADE BETWEEN FLANGES SEATING IT FLATLY AND TIGHTEN NUT. IF A BUSHING IS USED IN THE DIAMOND BLADE, BE SURE IT IS IN THE PROPER POSITION.

COOLANT: OIL IS THE BEST LUBRICANT. SECOND BEST IS **LUBE COOL 4800** MIXED TO PACKAGE DIRECTIONS. LUBE COOL MIXED WITH WATER HAS LUBRICANT AND ANTI-RUST PROPERTIES. WE DO NOT RECOMMEND PLAIN WATER. PLAIN WATER WILL CAUSE RUST AND SHORTEN BLADE LIFE. ADD COOLANT TO TANK SO BLADE IS 1/4" INTO COOLANT. TOO MUCH COOLANT WILL CAUSE EXCESSIVE SPLASHING. PLACE TABLE ON TANK, SECURE WITH FLAT HEAD MACHINE SCREW. WHEN ADDITIONAL COOLANT IS NEEDED, ADD THROUGH TABLE SLOT. CAUTION: NEVER CUT ROCKS WITHOUT COOLANT, YOU WILL RUIN THE DIAMOND SAW BLADE.

INSTALLATION OF GRINDING, POLISHING EQUIPMENT ON MODEL T & P:

GRINDING WHEELS ARE USED WET. A CELLULOSE SPONGE MAY BE PLACED IN THE PAN BEHIND THE WHEEL, WATER IS ADDED TO THE PAN TO SOAK THE SPONGE, WHICH WILL KEEP THE WHEEL WET. IF RUNNING WATER IS DESIRED, REMOVE THE 1/8" PIPE PLUG FROM THE TOP OF THE GRINDING WHEEL COVER AND INSTALL A PET-COCK OR WATER VALVE. INSTALL A WATER SOURCE ABOVE THE UNIT, BUCKET OR CAN, AND USE A PIECE OF TUBING TO THE PET-COCK. A DRAIN IS PROVIDED AT THE FRONT OF THE PAN SO WATER CAN DRAIN OUT AS IT IS USED.

DRESSING SILICON CARBIDE GRINDING WHEELS: IF REPLACEMENT GRINDING WHEELS ARE NOT EXACTLY CONCENTRIC THEY WILL CAUSE VIBRATIONS. TO DRESS THE FACE OF THESE WHEELS USE THE XLT-BAR DIAMOND DRESSER, LAY A STIFF BOARD OR PIECE OF METAL ACROSS THE TOP OF THE TROUGH TO ACT AS A SUPPORT FOR THE WHEEL DRESSER.

CAUTION: NEVER ALLOW THE GRINDING WHEELS TO STAND IN WATER OR AGAINST WET SPONGE WHEN NOT IN USE. THIS RESULTS IN ONE PART OF THE WHEEL ABSORBING MORE WATER THAN THE REST OF THE WHEEL. THIS CAUSES A DANGEROUS UNBALANCED WHEEL. **UNBALANCED WHEELS CAN EXPLODE** OR CAUSE VIBRATIONS THAT MAKE THE WHEEL BUMP IN USE.

SANDING AND POLISHING DISCS: REMOVE NUT, GRINDING WHEEL FLANGE, GRINDING WHEEL, AND SECOND GRINDING WHEEL FLANGE. IT IS NOT NECESSARY TO REMOVE WHEEL GUARD WHEN CHANGING WHEELS OR ACCESSORIES.

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NOW YOU ARE READY TO START MAKING ROCKS INTO GEMS!

1. ROCK SHOULD BE "SLABBED" OR SLICED WITH A DIAMOND BLADE. DO NOT TRY TO CUT CURVES. HOLD ROCK FIRMLY AND CUT STEADILY. DO NOT FORCE THE ROCK INTO THE DIAMOND SAW BLADE. MARKING TEMPLATES AND SCRIBES CAN BE PURCHASED FROM YOUR LAPIDARY DEALER. ANALYZE THE SLAB FOR THE BEST PATTERN OR COLOR. SCRIBE THE SELECTED AREA ON THE SLAB. SCRIBE THE BOTTOM OF THE STONE. CUT OUT THE SCRIBED AREA USING STRAIGHT CUTS. SAW CLOSE TO THE SCRIBE MARKS, DO NOT SAW THROUGH THE SCRIBE MARKS. WASH THE STONE WITH SOAP AND WATER TO REMOVE ALL THE OIL FROM THE SURFACE.
2. USE THE ROCK RASCAL MODEL D DOP POT OR A CAN TO MELT THE DOP WAX. HEAT THE STONE SLIGHTLY. APPLY A SMALL AMOUNT OF DOP WAX TO THE DOP STICK, (WOOD DOWELING WORKS WELL), AND THE STONE. PLACE THE DOP STICK IN THE CENTER OF THE STONE WITH THE SCRIBE MARK TOWARD THE DOP STICK. ALLOW TO COOL IN AN UPRIGHT POSITION. DIPPING IN WATER WILL SPEED COOLING.
3. SHAPE THE STONE WITH THE GRINDING WHEEL. KEEP THE STONE MOVING BE CAREFUL NOT TO GRIND AWAY ANY OF THE SCRIBE MARK. IF PART OF THE SCRIBE MARK IS GROUND AWAY, IT IS BETTER TO REMARK THE SCRIBE LINE AND START OVER. THIS IS IMPORTANT BECAUSE IT MAINTAINS A PROPER SHAPE AND THE FINISHED STONE DOES NOT LOOK LOPSIDED. GRIND A SMALL BEVEL AT THE BASE OF THE STONE AND DOME THE TOP. WHEN THE STONE IS PROPERLY SHAPED, IT IS READY FOR SANDING. BEFORE INSTALLING THE SANDING DISC, CHECK THE STONE WITH THE TEMPLATE TO MAKE SURE IT WILL FIT THE MOUNTING.
4. INSTALL THE ALUMINUM POLISHING HEAD AND SECURE WITH THE HEX NUT. THE RUBBER DISC SHOULD BE USED UNDER THE SANDPAPER AS A CUSHION AND HAS ADHESIVE ON BOTH SIDES. THE STONE SHOULD BE SANDED UNTIL PERFECTLY SMOOTH. REMOVE ALL THE SCRATCHES FROM THE GRINDING STEP. AFTER SANDING, THE STONE IS READY TO POLISH. IMPORTANT: WASH THE GEM STONE CAREFULLY AFTER EACH STEP TO REMOVE ANY LOOSE GRIT OR RESIDUE.
5. REMOVE THE SANDPAPER DISC AND RUBBER CUSHION FROM THE ALUMINUM POLISHING HEAD. REPLACE IT WITH THE FELT POLISHING PAD, SECURING IT WITH A GRINDING WHEEL FLANGE AND HEX NUT. MIX SOME POLISHING COMPOUND WITH A SMALL AMOUNT OF WATER, MAKING A LIGHT PASTE. APPLY PASTE TO FELT WITH AN ORDINARY PAINT BRUSH. MOISTEN AS NECESSARY BY USING A SPRAY BOTTLE OF WATER. HOLD THE STONE TO THE ROTATING DISC AND POLISH. REMEMBER, A STONE WILL NOT POLISH IF ALL THE SCRATCHES HAVE NOT BEEN SANDED OUT. SLIGHT PRESSURE SHOULD BE APPLIED AND THE STONE CONTINUALLY ROTATED. THIS WILL HELP TO PREVENT BLISTERING OR GLAZING, RESULTING IN A "PRUNESKIN" FINISH.
6. AFTER POLISHING REMOVE THE STONE FROM THE DOP STICK WITH ALCOHOL AND A RAZOR BLADE. IF THE STONE IS NOT HEAT SENSITIVE, A FEW MINUTES IN THE FREEZER, AND THE STONE WILL POP OFF THE STICK.

LIMITED WARRANTY: ROCK RASCAL PRODUCTS ARE GUARANTEED AGAINST DEFECTIVE MATERIAL OR WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER PURCHASE. SHOULD THIS ITEM REQUIRE SERVICE DURING THE GUARANTEE PERIOD DUE TO DEFECTIVE MATERIAL OR WORKMANSHIP, IT WILL BE REPAIRED AT NO CHARGE (EXCEPT FOR TRANSPORTATION) AT OUR PLANT, PROVIDED THE ORIGINAL SALES SLIP ACCOMPANIES THE MACHINE WHEN RETURNED. PARTS REQUIRING REPLACEMENT DUE TO NORMAL USAGE ARE NOT COVERED BY THIS WARRANTY. THIS WARRANTY IS IN LIEU OF ALL WARRANTIES EXPRESSED OR IMPLIED, AND NO RESPONSIBILITY IS ASSUMED FOR DAMAGE DUE TO ACCIDENT, ABUSE, LACK OF REASONABLE CARE, PRODUCT THAT HAS NOT BEEN MAINTAINED OR USED IN ACCORDANCE WITH INSTRUCTIONS PACKAGED WITH IT

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