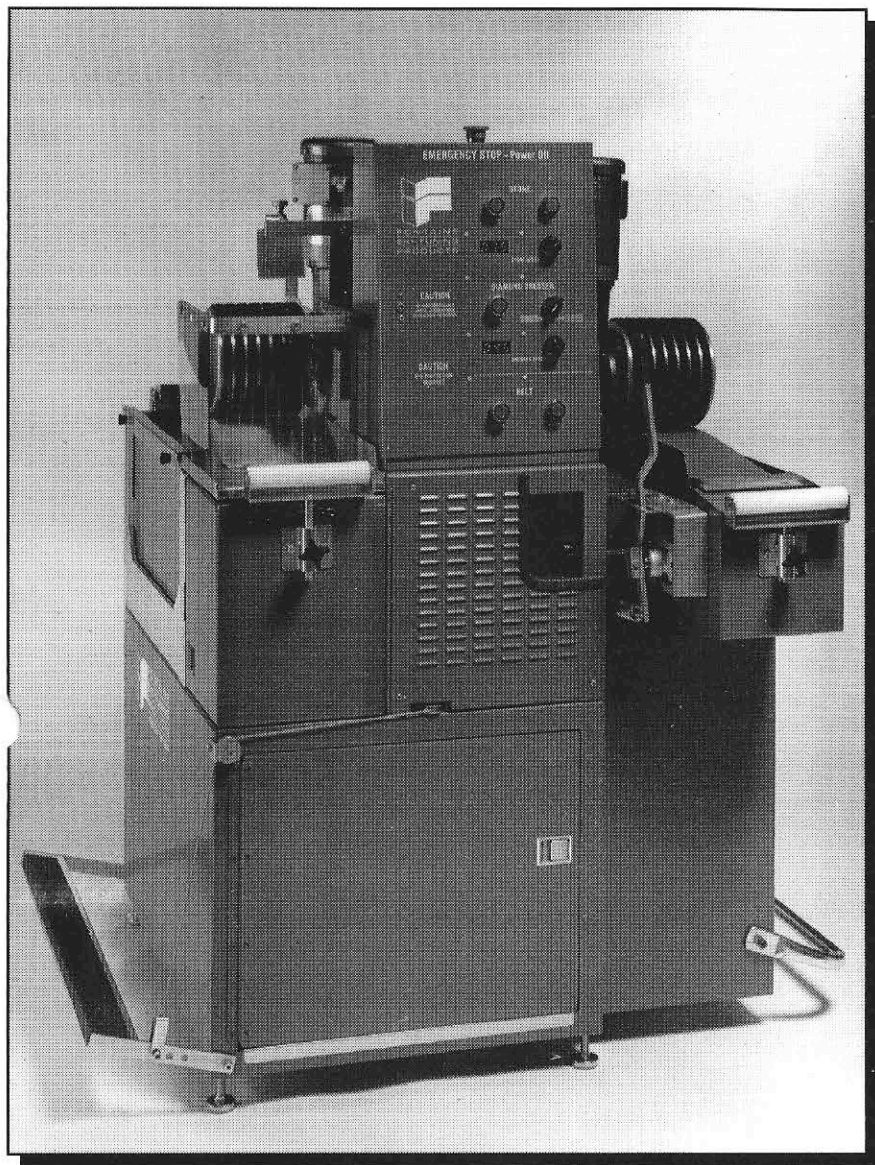


FONTAINE  
TUNING  
PRODUCTS



Fontaine Model FSC-11VS

## Precision Ski Tuning

*"The new Model FSC-11VS has all the features that a full service ski shop is looking for in a stonegrider. It also has a couple of other key features such as the adjustable edge-to-edge pressure of the power feed and the precision that is built into the diamond dressing system. We're as excited about this new stone as we were about our first belt machine we built 18 years ago."*

*— Gary Fontaine, designer*

### Fontaine Tuning Products

has developed an all new stonegrinder with everything a full-service shop needs to reproduce precision finishes quickly and affordably. The New stonegrinder makes the following features available to you:

- ☐ Variable speed grinding wheel.
  - 0–3,500 ft/min allows for widest possible range of base structures.
- ☐ Variable speed diamond dressing system.
  - Electronically operated auto-advance diamond dressing system with a speed range from .055"/sec to .5/sec.
  - Linear structure or cross structure capability.
  - Sealed diamond dressing system located outside the wet area of the machine.
- ☐ Digital readout on both variable speed controls for quick reproduction of the desired structure. Separate motors drive the stone and belt, 6H.P. total.
- ☐ Dual power feeds adjust for edge-to-edge pressure angle allowing for the most accurate texture possible.
- ☐ Large 35 gallon coolant system uses three stage filtration and high volume pump to keep coolant clean and free flowing.
- ☐ Modular construction allows for fastest and most cost efficient maintenance system available.
- ☐ Base and side edge beveling systems included with machine.

#### Fontaine Tuning Products

200 27th Street  
Sacramento, California

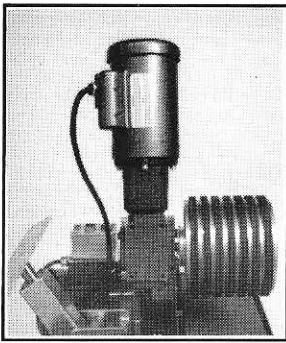
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(800) 251-5222

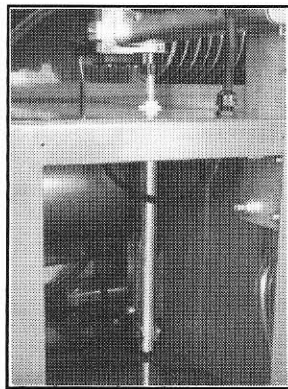
**David Rosso Sales**

**fontaineskituning.com**

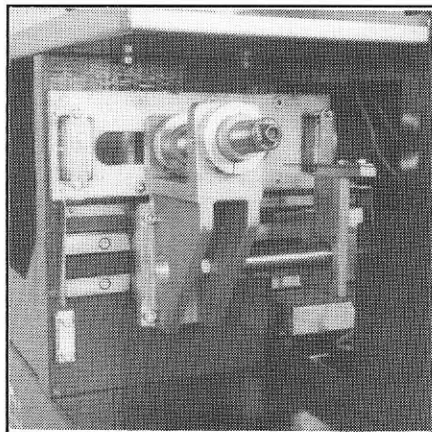
**(530) 307-0161**



Adjustable edge to edge pressure on power feed



Direct acting wheel lifter with unique elastomer shock absorber



Electronically controlled auto advance diamond dressing system located outside the wet area of the machine

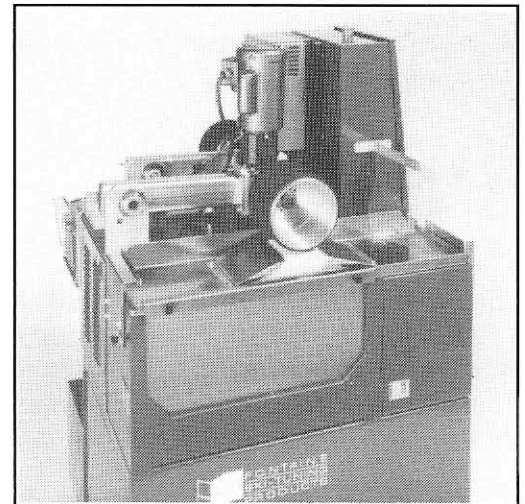
High precision ball bearing linear travel produces extremely accurate base textures

## Model FSC-11VS SPECIFICATIONS

<b>Power Requirements</b>	230 volt single phase
<b>Stone Motor</b>	3 H.P. spindle type
<b>Belt Motor</b>	3 H.P. heavy duty
<b>Grinding Wheel</b>	5" wide x 12" diameter
<b>Belt Drive</b>	6" x 80"
<b>Surface Speed - Stone</b>	0 to 3500 ft./min.
<b>Surface Speed - Belt</b>	2800 ft./min.
<b>Pump - Stone</b>	1/6 H.P.
<b>Pump - Belt</b>	1/12 H.P.
<b>Coolant Flow</b>	1000 G.P.H.
<b>Dresser Motor</b>	1/4 H.P. variable speed
<b>Dresser Rate</b>	.5 in/sec. to .055 in/sec.
<b>Power Feed</b>	1/8 H.P. 21 R.P.M.
<b>Feed Down Force Variable</b>	30 - 60 lbs.
<b>Dimensions</b>	width - 36" length - 42" height - 54"
<b>Weight</b>	750 lbs.
<b>Made in U.S.A.</b>	

## WARRANTY

All components manufactured by Fontaine Metal Products are warranted for one year from date of delivery of the machine. The electronic components including motor, switch, and pump are covered by the original manufacturers warranty of one year. The warranty covers defects in materials or workmanship, and covers cost of parts and labor. Items not covered on the warranty are electrical contacts, or damage caused by neglect, abuse, or normal wear.



# SAFETY

1. **Know the Machine**  
Read and understand the operators manual. Learn the machines operation and application and possible hazards.
2. **Keep Unit Grounded**  
The machine is equipped with a 3 or 4 wire cord for use on internally grounded electrical systems. Make sure your electrical system is grounded and that the machine is connected to its power source in an approved manner by a COMPETENT ELECTRICIAN.
3. **Keep Guard in Place**  
Never operate the machine with stone guard removed.
4. **Remove adjusting tools and wrenches**  
Form a habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
5. **Use Right Tool**  
Don't force tool or attachment to do a job it was not designed for.
6. **Wear proper Apparel**  
Never wear loose clothing or jewelry that may get caught in moving parts.
7. **Use safety Glasses**
8. **Don't overreach.**  
Keep proper footing and balance at all times.
9. **Keep Work Area Clean**  
Cluttered areas, benches and slippery floors invite accidents. It is recommended to use a piece of outdoor carpet under the machine to absorb the mist generated by the wet grinding process.
10. **Disconnect from Power Source**  
Unplug or turn off power at the source before doing any maintenance or repairs on the machine.
11. **Avoid Accidental Starting**  
Make sure switch is in off position before plugging in.
12. **Use Recommended Accessories**  
Consult the owner's manual for recommended accessories. The use of improper accessories may cause hazards.
13. **Never Stand on Machine**  
Serious injury could occur if the machine is tipped or if the cutting tool is accidentally contacted.
14. **Check Damaged Parts**  
Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function-check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
15. **Keep Machine Clean and in Good Working Order**  
Replace worn or broken parts. Clean grinding residue from the top of machine daily with a wet-dry shop vacuum.
16. **Keep Visitors Away**  
All Visitors should be kept at a safe distance from work area.
17. **Never Leave Machine Running Unattended**

# SAFETY INSTRUCTIONS TO OPERATOR

Read and understand the following steps before operating the machine.

**Caution:** Do Not Connect to Power Source Until You Have:

- a. Read and understand the instruction manual carefully.
- b. Completed the installation instructions.
- c. Examined and completed operating familiarity with the ON and Off switches.
- d. Dressed with proper apparel, safety glasses, no loose clothing.
- e. Check to be sure stone guards are in place.

## **NEVER**

- a.NEVER: Use a stone that is marked for an operating speed less than 1725 RPM. NEVER use an unmarked stone.
- b.NEVER: Modify a stone to fit an arbor for which the stone was not designed.
- c.NEVER: Stand skis against machine.
- d.NEVER: Use machine top as a table or allow clutter to accumulate on top of the machine.
- e.NEVER: Over tighten arbor nut. Excess pressure can cause stone damage ( see operating instructions).
- f.NEVER: Pour water or cutting fluid on the stone. A severe out-of-balance condition will result.
- g.NEVER: Touch the stone while it is rotating.



# INTRODUCTION

You have purchased the best in ski tuning machinery. We, at Fontaine Metal Products, have spent thousands of hours on the design and development of machines to do the best and most efficient job of ski tuning. We are committed to staying out in front with new developments to make your ski tuning operation the most advanced available anywhere.

Spend a little extra time right now and carefully read this operators manual. Learn the machine operation and the care and maintenance required to keep your machine operating at peak efficiency.

## UNPACKING

1. Remove the box or crate from the machine, leaving the machine bolted to the wooden pallet base.
2. Check for shipping damage that may affect the safe operation of the machine. Report any shipping damage immediately to the carrier.
3. Unbolt the four 1/2" bolts located under the wooden slats of the pallet and discard them.
4. Carefully slide the machine several inches over the edge of the pallet and install two levelers. Bottom out the threads. Repeat the above for the other two levelers.
5. Place the machine in the desired location and carefully level by adjusting the leveling screws while referring to a bubble type level.
6. Remove pump packaging.
7. Remove power feed packaging.

## CONNECT TO POWER SOURCE

**CAUTION:** The Fontaine Stone Machines use up-to-date electronics. Improper connection to the power source will cause over \$1,000.00 in damage to the electronic components and is not covered under warranty. Hazards to the operator are probable from an improper power source connection. Consult a qualified electrician that is familiar with machinery to do the power hook up. Ski shop personnel are **NOT QUALIFIED** to perform the power connection.

## PREPARING FOR START-UP

1. Review the previous instructions and make sure you are ready for start-up.
2. Rotate stone by hand to make sure there is no binding due to possible shipping damage.
3. **CAUTION:** DO NOT pour water or cutting fluid on the stone. A severe out-of-balance condition will result.
4. Add water and cutting fluid to the lower tank (fig. 1) according to the dilution ratio on the container. **CAUTION:** Excess cutting fluid will cause power feed wheel slippage and is a potential danger to the operator. Make sure the pump is placed in the side of the tank opposite the filter. Fill the partitioned tank so that the filter side is full to the center partition and the pump side fluid level is 1" below the

## START UP

1. Check the height adjustment (fig. 2-A) of the power feed wheel. Adjust to slightly less than the thickness of the ski tip.
2. Start the machine. The main motor will start, followed in several seconds by the pump and the power feed motor. Variable speed models have a 60 second delay on stone start up.
3. Let the stone run one minute at the highest speed, standing clear of the machine.
4. To protect the electronics, the machine is designed to not restart until the stone comes to a complete stop. Wait until the stone stops before restarting the machine.

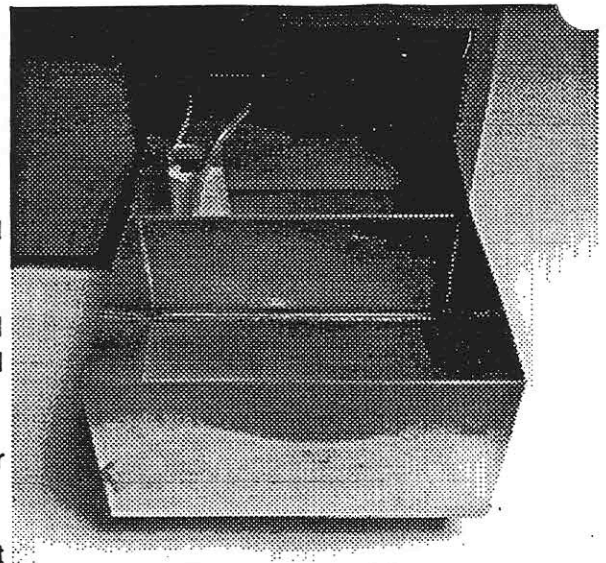


Fig. 1

## STONE DRESSING

The stone has been dressed at the factory and the dresser mechanism has been backed off several gear teeth for shipping. The dresser cycle button will have to be pushed several times for stone dressing to occur. Use lower dresser rate to begin with, along with careful observation and note taking to learn the texturing system. Basically, the faster (higher number on dial) rate the diamond tool travels, the coarser the base texture will be. Harder bases will require faster dressing rates for the same finish than softer bases. Start with fine finishes to duplicate a factory base. Several sample skis with different textures will provide a guide to the customer and operator. The stone should be re-dressed after no more than 10 to 15 ski passes for hard base skis or 15 to 20 for soft bases. Two or more passes of the dressing tool will usually be required to true the stone due to diamond wear, type of ski edge, or to achieve the base texture you require.

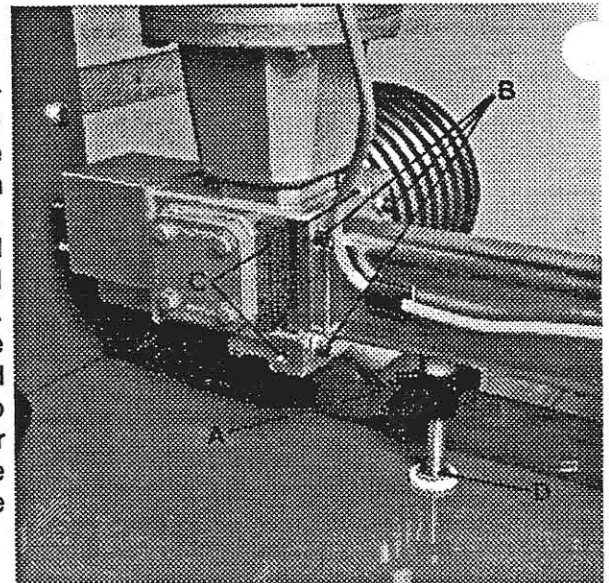


Fig. 2

- A - Power feed height adjustment knob.
- B - Gear box bolts, 4x.
- C - Feed wheel adjustment screws, 2x.
- D - Height adjustment thread.

# PREPARING SKIS FOR STONE GRINDING

1. Start with throw away skis and practice until you are confident of the operation of the machine before doing customers skis.
2. **CAUTION:** Make sure ski tops are clean and free of silicone spray before grinding. Clean ski with wax remover. Do not allow onlookers to stand behind the machine during operation. Power feed wheel slippage can occur and cause skis to be ejected from the machine. When grinding skis without bindings, tape the tops with 2" masking tape the full length of the skis before grinding.
3. Do all P-Tex filling and rough grinding on a belt machine prior to finishing with stone machine. Skis ground with a Fontaine belt machine using a worn 80 or 100 grit belt are properly prepared for stone grinding.
4. Beveling edges: If skis are to be beveled by machine, do so prior to finishing the base. This allows for P-Tex contact only, and preserves the preferred belt ground edge.

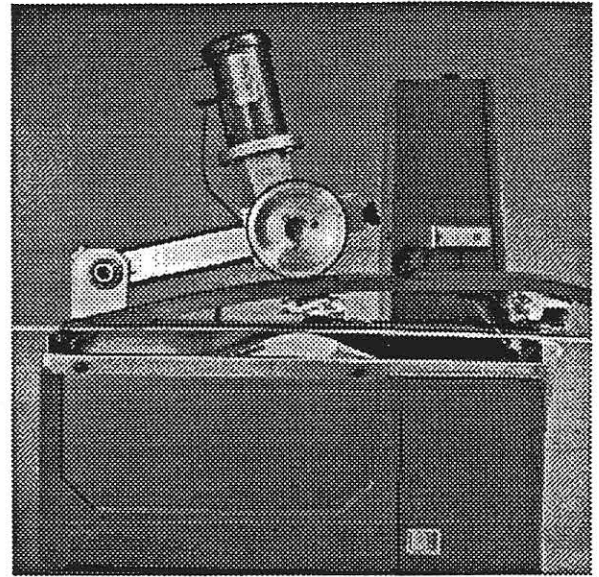


Fig. 3

## STONE GRINDING

### GRINDING SKIS WITH BINDINGS:

1. Place the ski bridge (fig. 3) in place, making sure it is securely positioned.
2. Position foot pedal in a comfortable position and lift feed wheel.
3. Position ski in contact with feed wheel as shown in figure 4.
4. In one motion lower feed wheel and push ski forward to start a grinding pass.
5. **CAUTION:** Do not let go of the ski during a grinding pass. Keep constant forward pressure pushing or pulling the ski over the stone at all times.
6. As the ski approaches the tail raise the tip and pull the ski away from the stone to prevent excessive grinding on the ski tail.
7. Observe the ski base structure. Refer to structuring section (to follow).

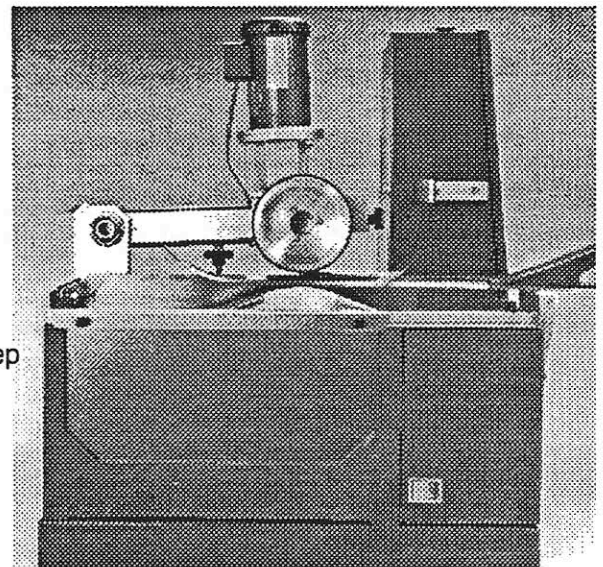
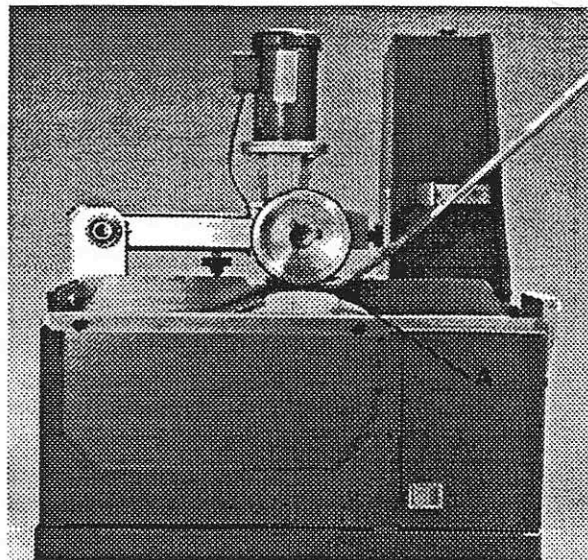


Fig. 4

## GRINDING SKIS WITHOUT BINDINGS

**CAUTION:** Make sure the skis to be ground are free of wax and chemicals (such as silicone spray) prior to grinding by cleaning with wax remover. Without the binding bridge you do not have the benefit of the high traction surface. **DO NOT** let go of the ski! Keep forward pressure on the ski at all times.

1. Tape the ski tops the full length with 2" masking tape to increase feed wheel traction.
2. Feeding skis without using wheel lifter: Make sure the feed wheel height is adjusted to slightly less than the thickness of the ski tip.
3. Raise the ski tail (figure 5) and push the ski tip between the feed wheel and the stone.
4. Quickly lower the ski tail as the tip area is ground.
5. Keep one or both hands on the ski at all times, exchanging hands as the ski passes the center point.
6. As the ski approaches the tail, raise the tip and pull the ski away from the stone to prevent excessive grinding on the tail radius.
7. Observe the ski base structure, refer to structuring section-(to follow).

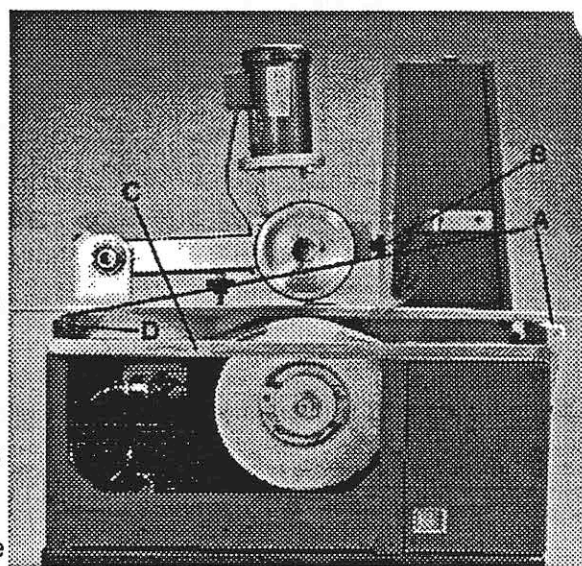


**Fig. 5**

**A - Grinding tip area.**

## GRINDING TECHNIQUES

1. **Steering the Ski:** the ski must be kept in line with the stone to prevent the ski from moving off the edge of the stone.
2. **Do not overgrind:** If the ski base has been properly prepared on a high quality belt machine, only one to four passes will be necessary to obtain the proper structure.
3. **Set the height of the Roller and scraper to guide ski with 1/8" to 1/4" of clearance at tip and tail (fig.6-A).** This adjustment needs to be moved down as the stone wears.
4. **Smoothing the stone after dressing:** After a dressing pass, there may be grains of abrasive left clinging to the stone. A light pass of a piece of wood, such as a broom handle, will remove these particles and prevent a burr from occurring in the first ski that you grind. This method will also allow you to "feel" the stone surface when you are doing high precision tuning.
5. **Prevent ski tip vibration:** Hold the ski tip as it is pulled through the machine to prevent ski tip vibration.
6. Skis should always be ground tip to tail.



**Fig.6**

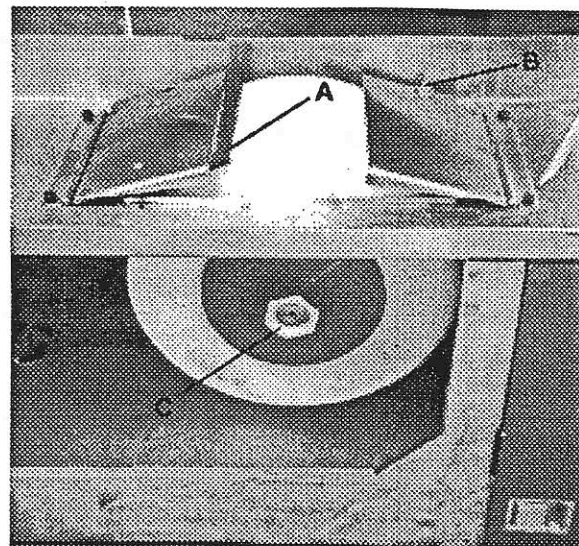
**A - Clearance adjustment.**  
**B - Down pressure weight adjustment.**  
**C - Stone guard.**  
**D - Scraper.**



# DETUNING OF EDGES

**CAUTION:** All skis, after finishing on a belt machine or a stone machine, must be detuned as they are too sharp to be skied as is. Edge work by hand is very important and requires training and diligence by the ski mechanic. The Blake Lewis advanced ski tuning clinics, along with the Blake Lewis ski tuning video, are recommended to keep your shop staff trained and up to date on the important hand work required to produce properly tuned skis. The following is a very basic procedure. Much more must be known to properly tune skis.

1. With the center of the ski pushed down against a flat surface, dull the edges of the tip and tail area of the ski that do not contact the flat running surface. Several strokes of a fine file at 45 degrees may be necessary.
2. Detune the entire edge using a soft abrasive stone designed for this purpose. The edge must be detuned according to a number of factors such as the make and model of the ski, snow conditions, skiers ability, etc.
3. It is always better to detune too much rather than too little. An overly sharp edge usually results in an unhappy customer.



**Fig. 7**

- A - Spray flap.  
B - Guard adjustment.  
C - Stone nut.

## MACHINE MAINTENANCE

The following steps allow the Fontaine Stone grinder to consistently finish skis year after year. Do not expect consistent results from a neglected machine.

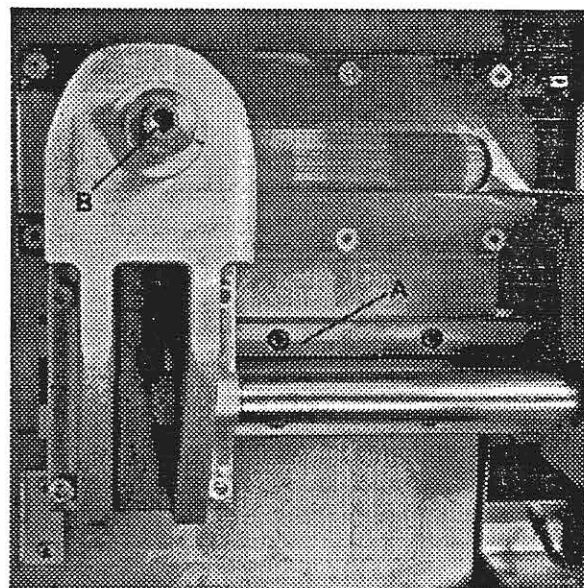
**CAUTION:** Never use silicone spray or WD-40 on the machine or on skis to be finished.

### DAILY, BEFORE START-UP

1. Check coolant level. The top tank and filter side of the lower tank should be full to the top of the partition. The pump side should be full to between the top of the partition to mid pump (fig.1).
2. Check wheel feed height adjustment (fig.2-A).
3. Check spray flap (fig 7-A) and the adjustment of the wheel guard (fig 7-B). A clearance of 1/32" to 1/8" should be maintained between the wheel and the guard.
4. Empty filter bag and backwash to remove residue.

### DAILY, OR END OF EACH USE OF MACHINE

1. Turn off coolant at pump (fig 11) and run the stone for two minutes at full speed to remove coolant from the pores of the stone. This prevents an out-of-balance condition from developing.
2. Vacuum grinding residue using a **WET/DRY** shop vacuum. Clean the machine top and the stone dressing mechanism. Check for any moisture on the diamond dresser slide (fig.8-A) and dry with a soft clean cloth.
3. Clean the machine cabinet with a cleaner such as Fantastic.



**Fig. 8**

- A - Diamond dresser slide.  
B - Lead screw socket drive.

## WEEKLY MAINTENANCE

1. Oil the following with several drops of motor oil:
  - a. Wheel height adjustment thread (fig.2-D).
  - b. Foot pedal pivot (fig.12-A)
2. Add three strokes of factory recommended grease to the dressing mechanism slide ( fig 9-A).

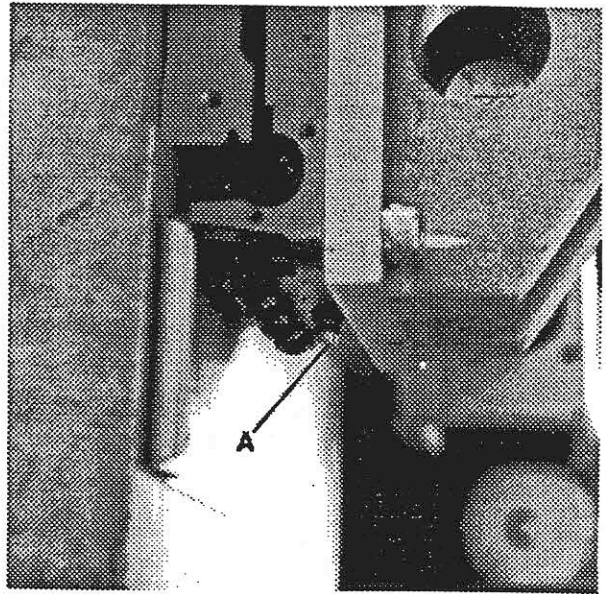
## MONTHLY MAINTENANCE

Clean and rinse the top and bottom tanks and add fresh water and cutting fluid according to the recommendations on container.

1. Remove the wing nut from the upper tank. Clean out and remove clean-out tube( fig.10-A).
2. Scrape all stone residue into filter and remove filter. Empty filter and back wash with a garden hose.
3. Pump out tank. Disconnect the coolant line and connect the drain hose provided ( fig. 11).
4. Remove tank and wash out all residue.
5. Check coolant nozzle: To clean coolant nozzle, push in on nozzle and turn 1/4 turn, remove nozzle. Turn on machine and allow coolant to flow 1min. Clean nozzle and replace by pressing in and turning.
6. Replace tank, filter and clean-out tube. Fill with water and cutting fluid. Use cutting fluid as recommended, too much fluid may cause power feed problems.
7. Check the traction of power feed drive bands: The rubber drive bands have been dressed at the factory for maximum traction. The traction surface of the bands will be eventually lost from wear. When power feed slippage becomes a problem, the bands should be changed immediately. Roll off the old bands and replace with new bands, making sure they are seated flat in the grooves of the wheel with the ground (rough side) out.

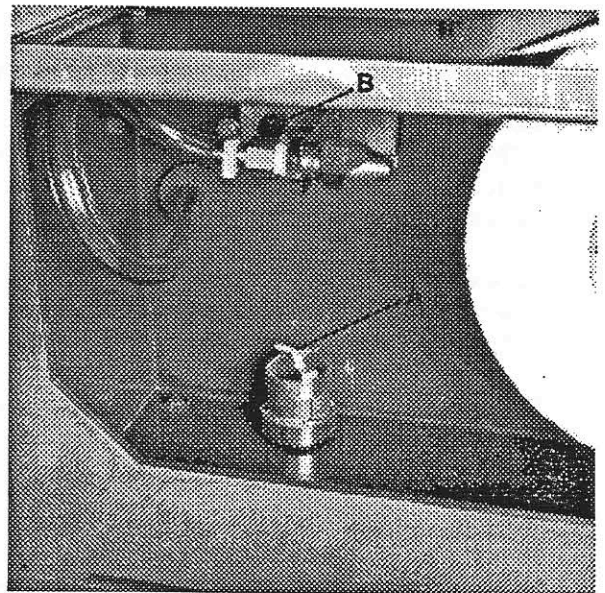
## YEARLY, BEGINNING OF SEASON

1. Remove machine end covers.
2. Add grease to fittings (fig. 13-A) with the maximum of three strokes from a grease gun (**CAUTION:** Over greasing of the motor will cause motor failure).
3. Oil the moving parts of the feed wheel lifter with several drops of motor oil (fig.14-A & B).
4. Add grease to the power feed pivot.



**Fig. 9**

**A-** Slide grease fitting.



**Fig. 10**

**A -** Clean out tube.  
**B -** Spray adjustment.

## **MAINTENANCE (CONTINUED)**

### **YEARLY, END OF SEASON**

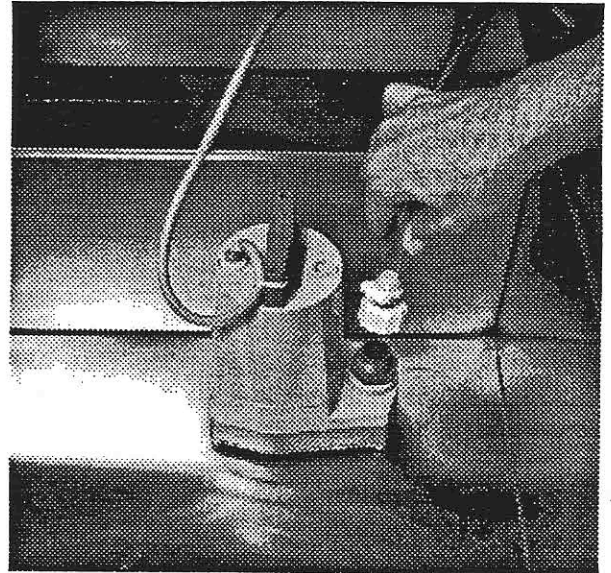
1. Thoroughly clean and dry the entire machine. If the machine is to be covered, use a cloth (not plastic) cover to prevent moisture build-up.

### **EVERY TWO YEARS**

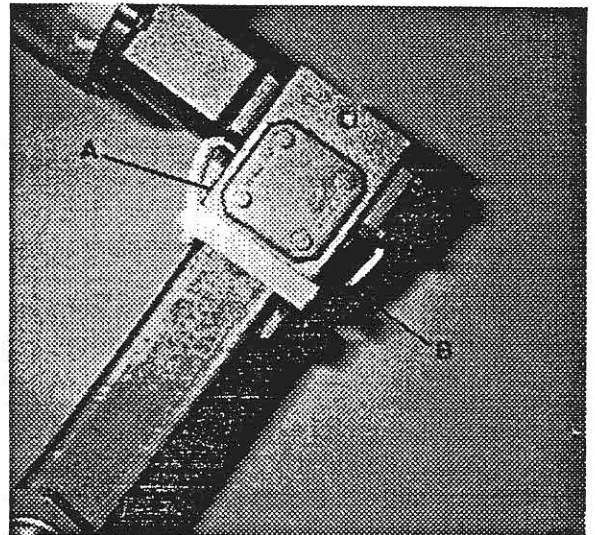
1. Drain power feed gear box oil. (fig. 17-A & B) re-fill with 9 oz. of Shell Valvata oil.

### **FACTORY RECOMMENDED LUBRICANTS**

1. Motor oil- 30 wt. motor oil, any brand.
2. Grease- Shell Alvania EP2.
3. Gear oil- Shell Valvata oil J680.



**Fig. 11**



**Fig. 17**

A - Filter plug.  
B - Drain plug.

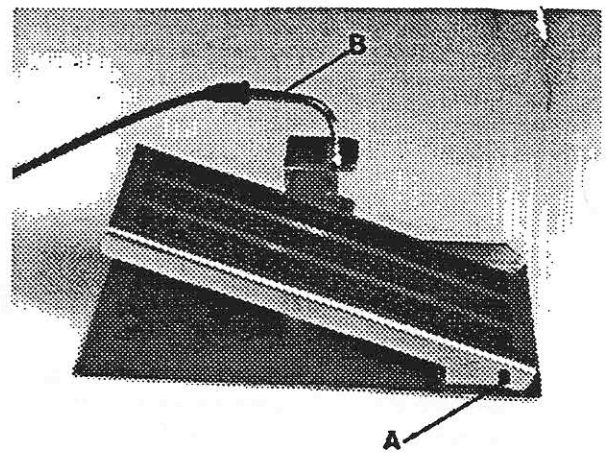


# REPLACING THE STONE

**WARNING:** The following procedure must be followed exactly or injury to the operator or damage to the machine may result.

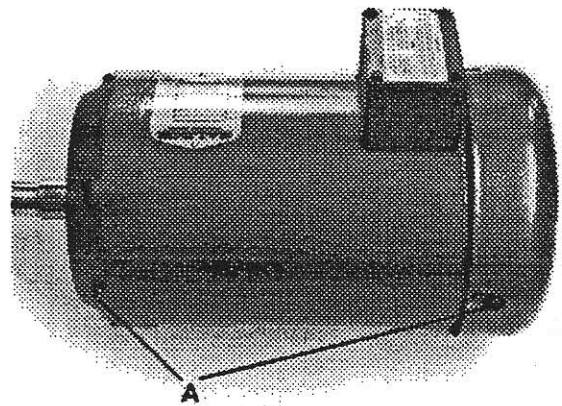
1. Disconnect the power source at the braker or unplug the machine.
  2. Loosen the left hand thread nut (fig. 7) by turning it clockwise while a helper holds the motor shaft stationary (fig. 15-A).
  3. Remove the scraper and stone guard (fig. 6-C).
  4. Remove the stone.
  5. Check for diamond wear (fig. 16A). The diamond tool should be replaced when the stone is changed, as the stone and diamond tool have approximately equal life.
  6. To replace the diamond tool, turn the dresser lead screw (fig. 8-B) to expose the set screw and loosen it 1/2 turn using a 1/8" allen wrench.
  7. Make sure the new diamond tool is seated properly and tighten the set screw securely.
- CAUTION: Step 8 must be performed prior to machine start up.**
8. Turn the lead screw (fig 8-B) counter clockwise using an Allen wrench until it stops. This moves the diamond tool back to its starting position.
  9. Fit a new stone. For best stone balance, make sure the label or arrow faces up prior to tightening the nut.
  10. Tighten the left hand thread nut securely by turning it counter clockwise while a helper holds the motor shaft (fig. 15-A) using the tools provided. Do not force or extend the length of the wrenches (15 ft/lbs maximum).
  11. Rotate the stone by hand. Check for free and true running.
  12. Adjust power feed wheel lifter to clear stone by 1/4" or slightly less than the thickness of a ski tip (fig. 2-A).
  13. Replace guard and scraper. Adjust guard to clear stone and check again for free running of the stone.
  14. Start the machine and operate dresser mechanism until an even cut of the stone is observed.
  15. Adjust spray pattern to cover from 1/4" to 1/2" of the edge of the stone (fig. 10-B). This adjustment should be checked regularly to maintain a full width spray pattern without spraying off the edge of the stone.

**NOTE:** The machine may vibrate excessively until the stone is evenly dressed.



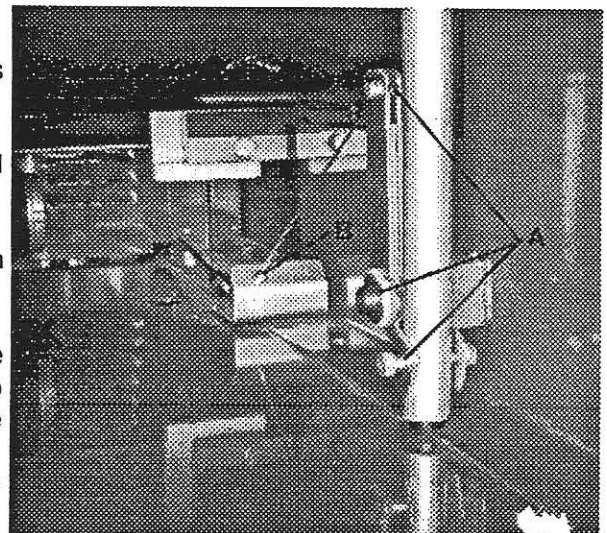
**Fig. 12**

A-Pivot.  
B-Cable adjustment.



**Fig. 13**

A- Motor grease fittings-lube only once a year.



**Fig.14**

A-Oil pivot points.  
B-Oil cable.



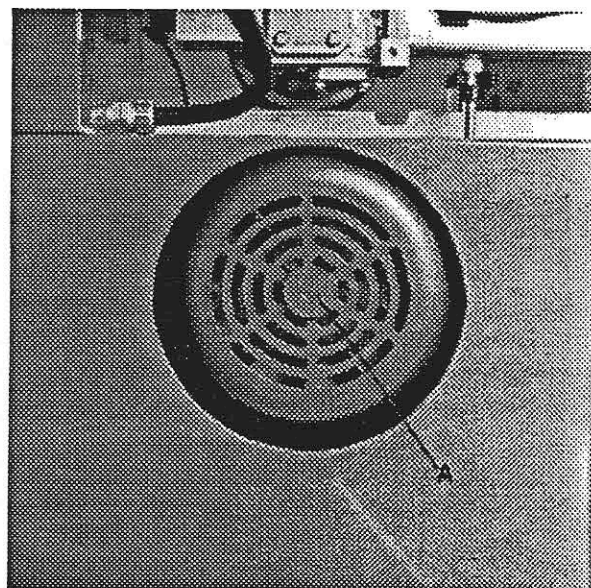
# ADVANCING THE DIAMOND TOOL BY HAND

**WARNING:** Make sure there is clearance between the diamond tool and the stone before startup with a new stone. **ALWAYS** rotate the lead screw counterclockwise to its stop before replacing the stone.

1. Start the machine. Set the dresser speed on 3 and cycle. Wait 5 seconds and push the stop button. This stops the diamond tool over the stone.
2. Disconnect the machine power source.
3. While rotating the stone by hand, slowly advance the diamond tool by turning the lead screw (fig.8-B) clockwise using an allen wrench.
4. When you first hear contact, STOP. Rotate the lead screw back 4 gear teeth counterclockwise.
5. Check for zero contact and restart the machine.
6. Dress the stone until an even dressing pass is observed.

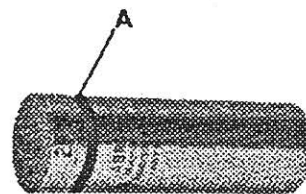
## MACHINE ADJUSTMENTS: PURPOSE & METHOD

1. **Diamond dresser:** For achieving different ski base textures. Adjust knob
2. **Stone Speed (optional):** For achieving different textures and to adjust for stone wear. Adjust knob.
3. **Power Feed Wheel pressure angle (fig.2-B):** For maintaining even texture, edge to edge. Call for adjustment kit.
4. **Spray Nozzle distance to stone (fig.5-B):** For maintaining full spray coverage on stone. Observe spray pattern with stone guard door removed. Adjust spray pattern to within 1/4" to 1/2" of edge of stone.
5. **Power feed wheel height (fig.2-A):** For maintaining proper clearance. Adjust to slightly less than the thickness of a ski tip. When slippage occurs at ski tip or tail, lower wheel one turn of knob.
6. **Down feed pressure (fig. 6-B):** For maintaining adequate pressure for different ski base types. Remove knob and replace weight. Use the minimum weight that produces the desired texture.
7. **Stone guard (fig.7-B):** For maintaining proper clearance. Keep clearance 1/32" to 1/8".
8. **Roller and Scraper ski guides (fig.6-A):** For guiding ski over machine and for removing coolant and residue. Loosen adjustment knobs and adjust for 1/8" to 1/4" clearance at tip and tail of the ski.
9. **Foot pedal cable adjustment (fig.12-B):** For maintaining 1 1/2" feed wheel lift. Adjust cable length so that wheel lifts 1 1/2" with pedal fully depressed.



**Fig. 15**

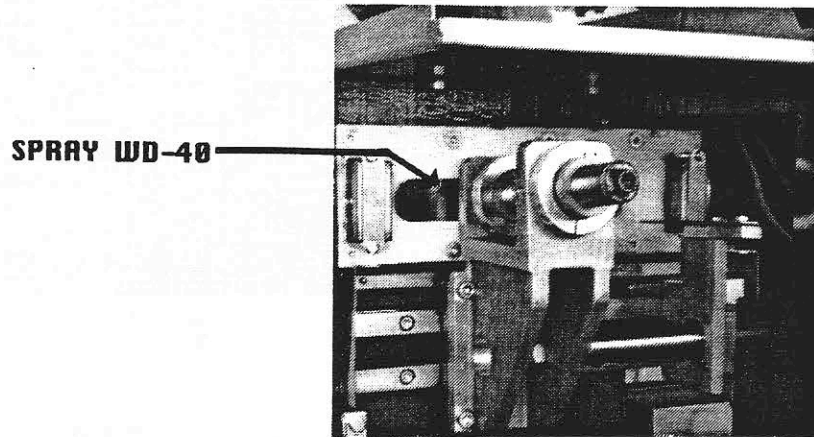
**A -** Motor shaft slot, remove plug.



**Fig. 16**

**A -** Approximate wear line.

## **STAINLESS STEEL CARTRIDGE SEAL MAINTENANCE**



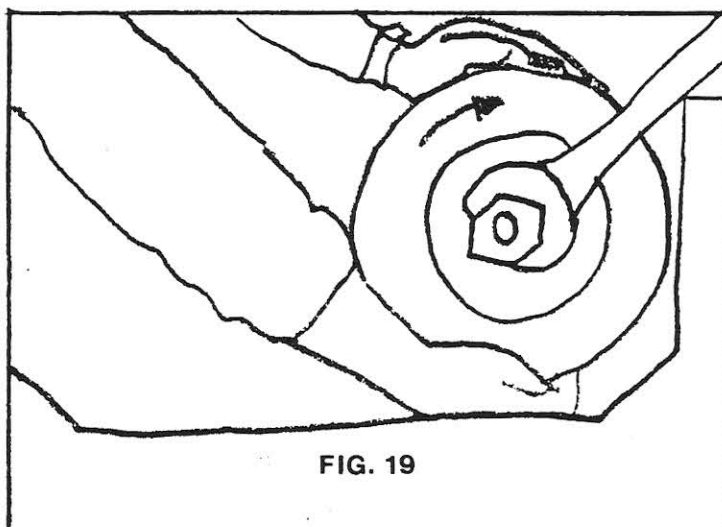
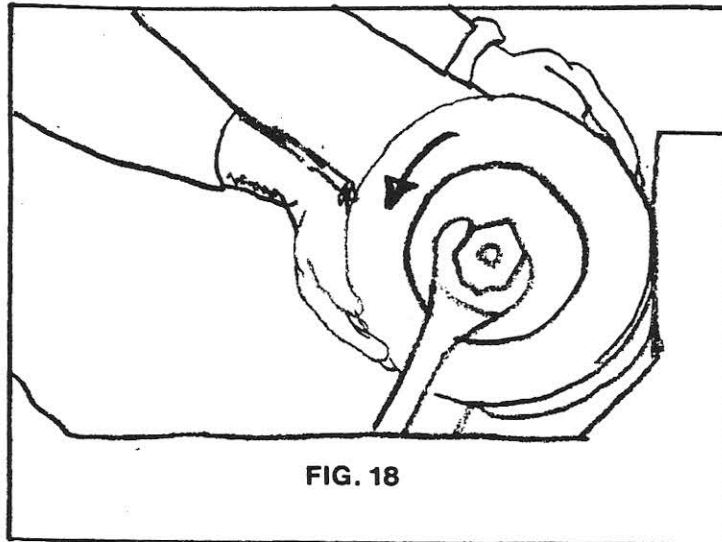
**To prevent the stainless steel metal seal from sticking in the delrin cartridge, spray the outside of the seal with a two second shot of wd-40 once a week. This should always be done prior to start up at the beginning of the season.**

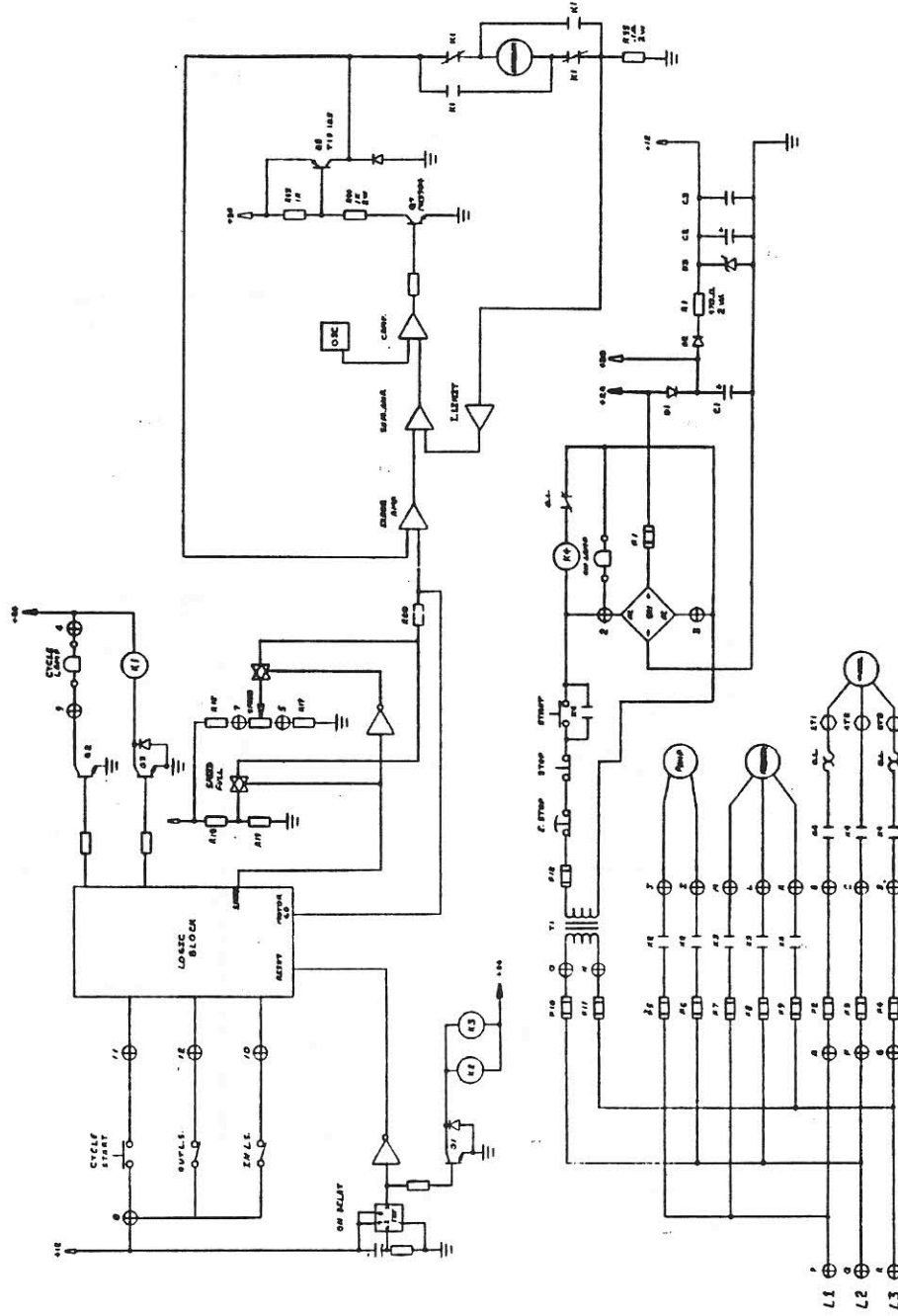
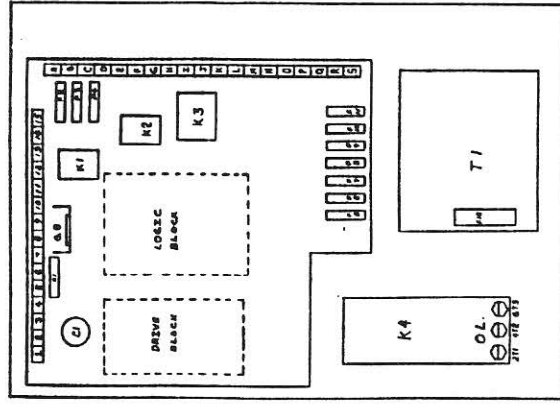
**Do not use silicone spray! Do not spray any lubricant inside the water containment area of the machine.**

**STONE NUT:** Remove fig.18- Install Fig. 19 (preferred method)

**Remove:** Disconnect machine from power source. Place wrench in position as shown, Grasp stone and rotate.

**Install:** Position stone per instructions on page 10 of the operators manual. Install flange and left hand nut. Position wrench as shown. Grasp stone and rotate until the nut is tight.





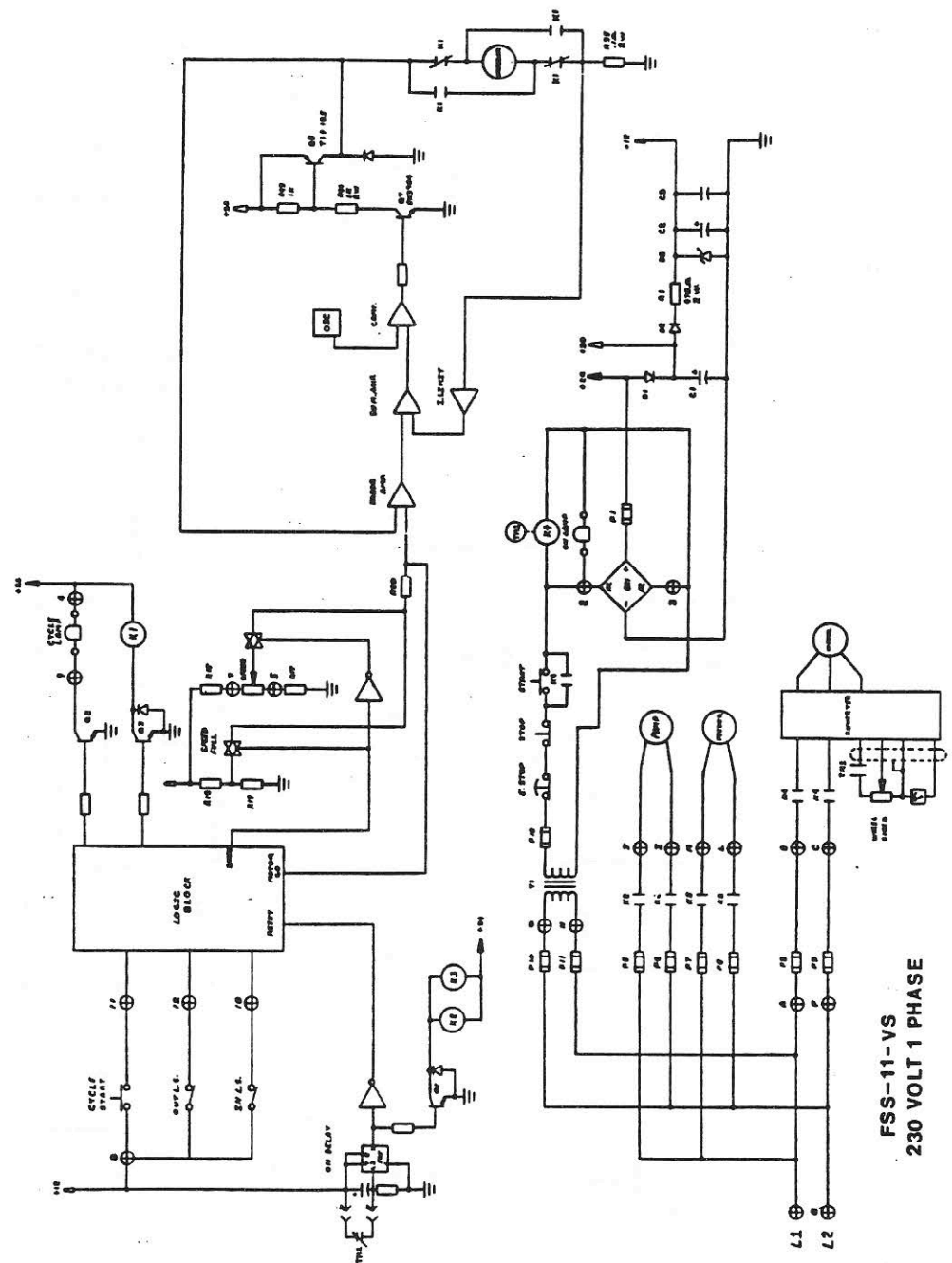
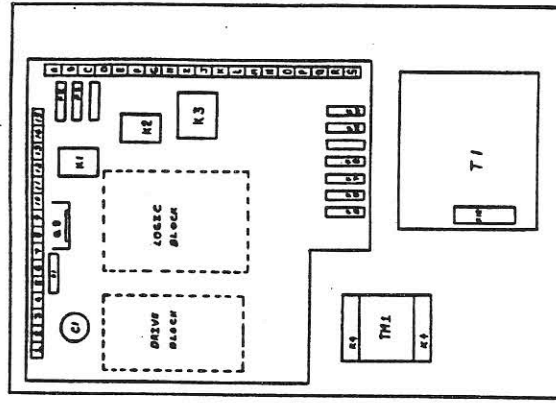
⊕ TERMINALS ON P.C.B.

⊖ TERMINALS ON K4 O.L.

FSS-11  
200-230 VOLT 3 PHASE

CRA-TEK INTERNATIONAL CORP., INC.	
Model FSS-11	Rev. 10/77
DRESSER LOGIC / SPEED CONTROL	
MOTOR DRIVEN AND THERMAL PROTECTING	



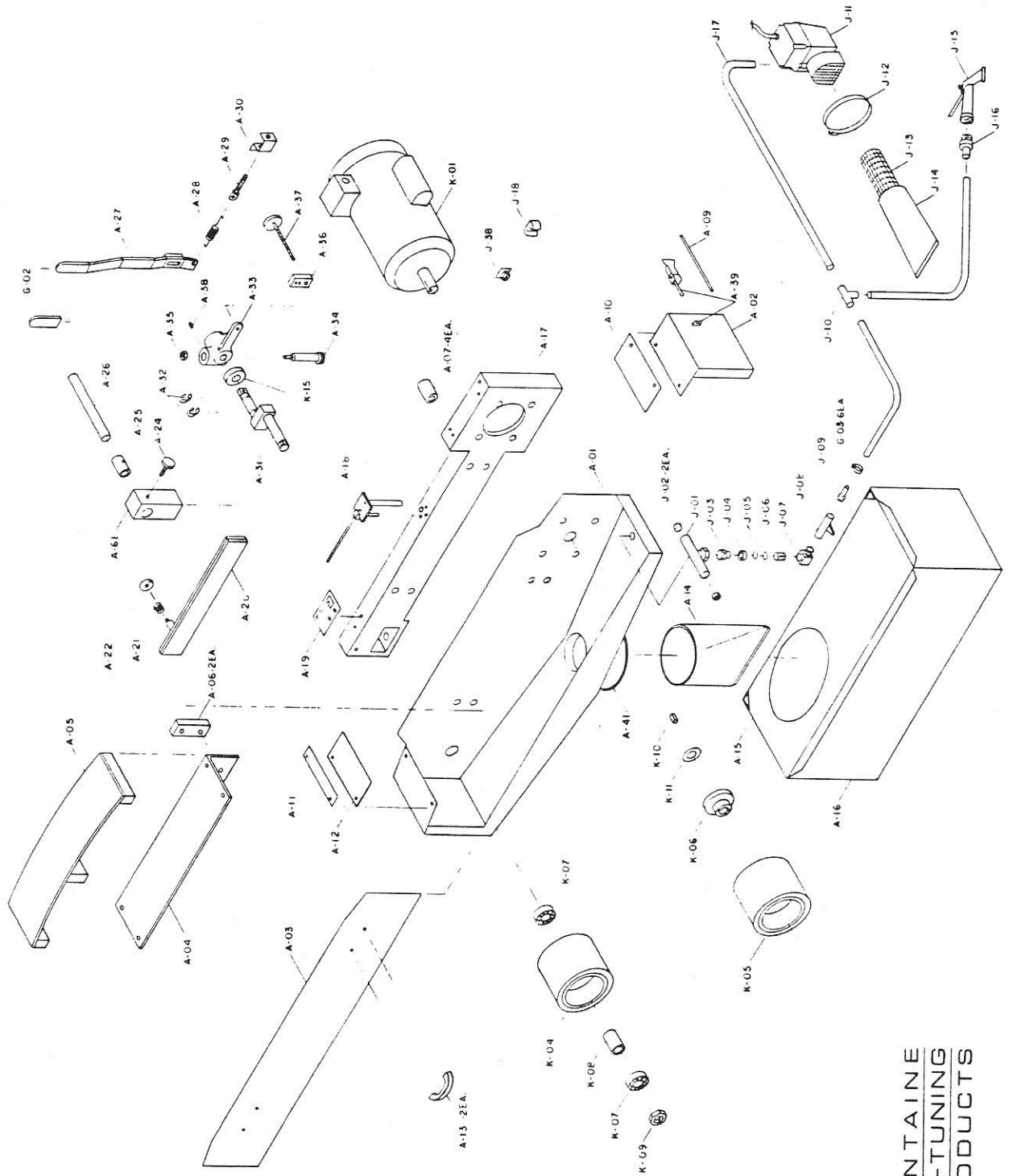


FSS-11-VS  
230 VOLT 1 PHASE

⊕ TERMINALS ON P.C.B.  
⊖ TERMINALS ON K4 O.L.

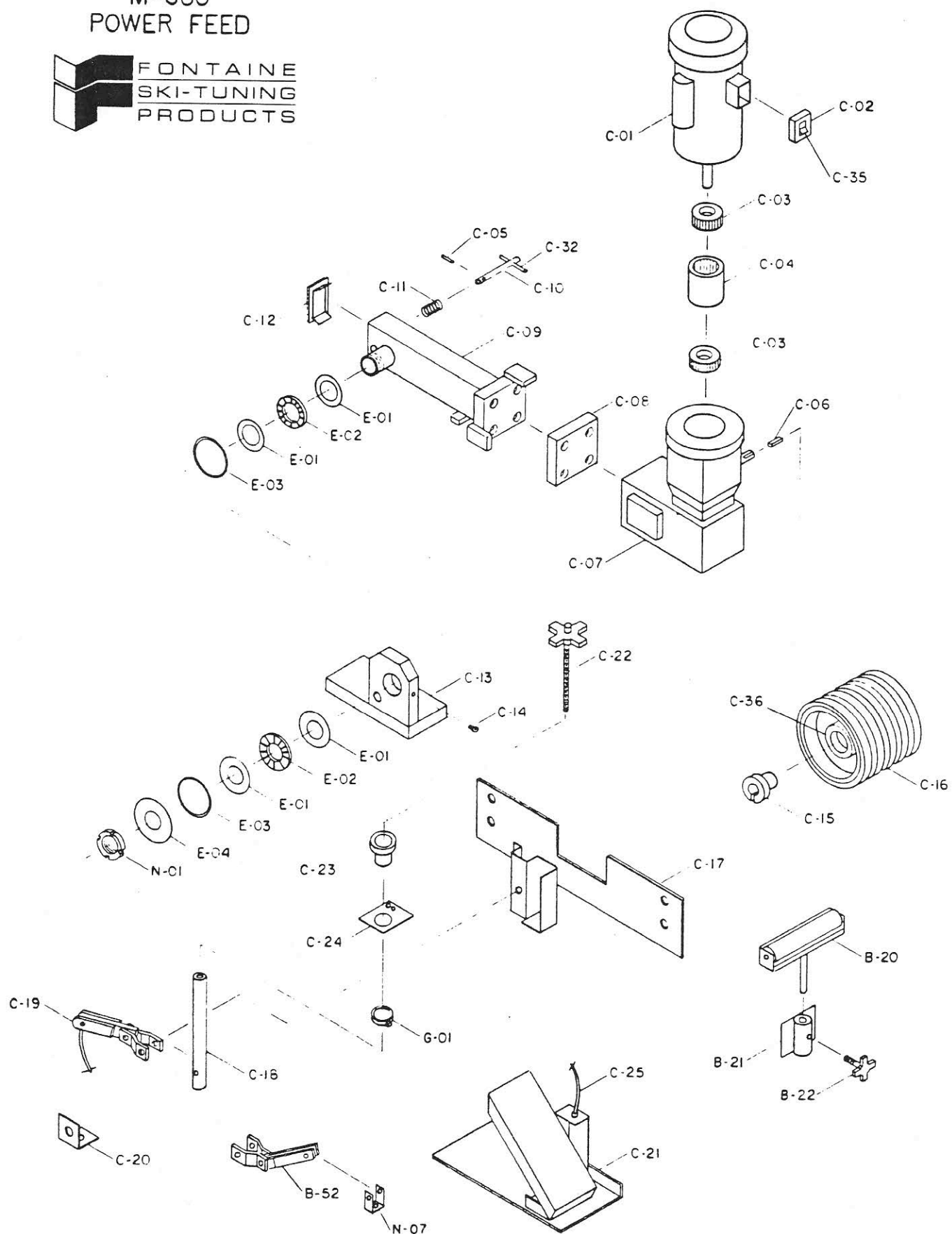
CRA-TEK International, Cambridge, Eng.	
Rev. 10/80	200
DRESSER LOGIC / SPEED CONTROL	
Model 300 Series	100-100-100

FSC-II  
BELT SIDE





M-680  
POWER FEED





# EXPLODED VIEW DRAWING CROSSOVER PARTS LIST

**David Rosso Sales**

**fontaineskituning.com**

**(530) 307-0161**

DRAWING#	PART#	NAME
000		NOT PICTURED
002	1622	680 TWIN CABINET TOP
004	1624	680 TWIN CABINET ASSY.
006	0348	CLEAR SPRYSHIELD, HARD LEXAN
008	1626	REMOVABLE EDGE GUIDE HANGER BRKT
010	1628	PLATEN REGRIND 604
012	1630	PLATEN REGRIND 680
014	1632	PLATEN REGRIND 100
016	1634	DRESSER CARTRIDGE REBUILD
018	1636	POWERFEED SYSTEM RETROFIT KIT
020	1638	SLIDING WEIGHT RETROFIT KIT
022	1640	WRAP.ARND.SPRAYSHIELD RETRO. KIT
024	1642	STONE FLANGE RETROFIT KIT
026	1644	CABLE RETROFIT KIT (680)
028	1646	CABLE RETROFIT KIT (FSC BELT SIDE)
030	1648	CABLE RETROFIT KIT (STONE)
032	1650	PWR. FEED BAR LIFT SYSTM. RTRD. KT
034	1652	680 TWIN WATER PUMP SWITCH RTRD
036	1654	0-3 DEGREE BEVELER GAGES
038	1656	SWING OUT EDGE GUIDE COMPLETE
040	1658	SIDE EDGE BEVELER COMPLETE
042	1660	PRE FILTER SYSTEM
044	1662	SNOWBOARD GUIDE SET
046	0460	SKI BRIDGE (FIBERGLASS)
048	0325	BASE BEVELER (680)
050	0328	BASE BEVELER (604)
090		EXPLODED VIEW DRAWINGS
101	1582	front door md. 100
104	1538	680/100 platen assy.
106	0184	EDGE GUIDE
107	1584	belt release handle md. 100
112	1586	edge guide shaft md.100
115	1528	SPRAY BAR ASSY. (W/ PLUGS)
121	1588	SPRAY SHIELD PLATE MD. 100
122	1590	BEARING TUBE ASSY EXCHANGE
123	1592	EDGE GUIDE BLOCK MD 100
127	1594	FINGER GUARD MD 100
130	1378	MD. 100 FLAP

DRAWING#	PART#	NAME
133	1596	SLINGER WASHER MD 100
138	1598	TRACKING ASSY COMPLETE EXCHANGE
152	1600	MD 100 DRIVE WHEEL KIT
153	1602	MD 100 IDLER WHEEL KIT
155	1604	MD 100 TRACKING KNOB
159	1606	MD 100 TRACKING SPRING
163	1153	FRONT DOOR HANDLE
164	0475	PUMP 230 VOLT
165	0871	WATER TANK
167	1054	CASTER FIXED
168	1057	CASTER-SWIVEL
169	1132	FILTER
170	1608	TRACKING SPRING COVER MD 100
175	1060	BELT RELEASE HND. COVER
179	1546	EDGE GUIDE KNOB ASSY
180	0451	FILTER MOUNT
181	0478	PUMP 115 VOLT
182	0265	WATER BAR SPACER
183	0829	EDGE GUIDE BUSHING
201	1087	1/4 STREET ELBOW
202	1127	MALE HOSE TO 1/2 TUBE
203	1081	1/4 CLOSE NIPPLE
204	1078	1/4 UNION (LOWER HALF)
205	0850	VALVE (WATER)
207	1093	1/4 PIPE TO 1/2 TUBE
208	1090	1/2 HOSE T
210	0364	CLEAR VINYL TUBE
213	1111	SPRAY NOZZLE
215	1123	CLAMPS 3/4"
216	1075	O-ring 5/8 o.d 7/16 i.d
217	1171	PLUG (SPRAY BAR)
601	0394	FRAME (604)
602	0400	TRACKING PIVOT
603	1610	STAND ASSY. ( 604)
604	0106	PLATEN MOUNT ( 604)
605	1612	PLATEN ASSY. ( 604)
606	0184	EDGE GUIDE
607	1524	BELT RELEASE HANDLE

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DRAWING#	PART#	NAME
609	0277	FRAME SPACER (604)
612	0256	EDGE GUIDE SHAFT
613	1548	AXLE ASSY.
615	1528	SPRAY BAR ASSY. (WITH PLUGS)
617	0265	WATER BAR SPACER
620	1542	SPRAYSHIELD PLATE
621	0286	EDGE GUIDE BLOCK
622	1540	FINGER GUARD
623	1380	MD 604 FLAP
624	0362	IDLER SEAL
625	1544	RELEASE HANDLE LOCK
626	0208	TRACKING KNOB HOLDER
627	0292	PLATEN MOUNT SPACER
630	0157	SPRING ADJUSTER
632	1614	WATER CHANNEL ASSY. (604)
633	1618	FRONT DOOR (604)
634	1616	END DOOR (604)
636	1620	TANK TOP (604)
650	0406	MOTOR (604)
651	0382	DRIVE WHEEL
652	0385	IDLER WHEEL WITH (BEARINGS)
653	1526	TRACKING KNOB ASSY.
654	0829	EDGE GUIDE BUSHING
655	0823	WHEEL BEARINGS
656	0838	SPRING (TRACKING)
657	0835	GREASE FITTING
658	1153	FRONT DOOR HANDLE
659	0478	PUMP 115 VOLT
660	0871	WATER TANK
661	1057	CASTER, SWIVEL
662	1054	CASTER, FIXED
663	1132	FILTER
664	1060	BELT RELEASE HANDLE COVER
665	0451	FILTER MOUNT
666	1388	SLINGER WASHER
667	0739	3/4 x 3 SHOULDER BOLT
668	0670	5/8-11 nylon lock nut
669	0811	retaining ring

DRAWING#	PART#	NAME
670	0784	20MMx1.5 nylon lock nut
672	1546	EDGE GUIDE KNOB ASSY.
673	0859	LATCH, (END DOOR)
676	0244	HINGE PIN FRONT DOOR (604)
677	0235	END DOOR PIN
678	0475	PUMP 230 VOLT
679	1012	SWITCH (115/208)
680	0046	WHEEL BEARING SPACER
681	0820	TAPER LOCK HUB (7/8)
682	1159	SPRAY NOZZLE CLIP
683	1156	HOSE CLIP
A-01	1532	680 WATER CHANNEL ASSY.
A-02	1534	END DOOR (680)
A-03	1536	FRONT DOOR (680)
A-04	0103	PLATEN MT. (680)
A-05	1538	PLATEN ASSY. (680/100)
A-06	0292	PLATEN MOUNT SPACER
A-07	1578	FRAME SPACER (FSC)
A-09	0235	END DOOR PIN
A-10	1540	FINGER GUARD
A-11	1542	SPRAY SHIELD PLATE
A-12	1382	MD. 680 FLAP
A-13	1153	FRONT DOOR HANDLE
A-14	1132	FILTER
A-15	1568	FSC TANK TOP
A-16	1570	FSC WATER TANK S.S.
A-17	0397	FRAME (680)
A-18	1572	REMOVABLE EDGE GUIDE BASE ASSY.
A-19	1544	RELEASE HANDLE LOCK
A-20	1574	ADJUSTABLE EDGE GUIDE ASSY.
A-21	0844	SPRING (ADJ. EDGE GUIDE)
A-22	0472	KNOB (ADJ. EDGE GUIDE)
A-23	0286	EDGE GUIDE BLOCK
A-24	1546	EDGE GUIDE KNOB ASSY.
A-25	0829	EDGE GUIDE BUSHING
A-26	0256	EDGE GUIDE SHAFT
A-27	1576	FSC BELT RELEASE HANDLE ASSY.
A-28	0838	SPRING (TRACKING)

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DRAWING#	PART#	NAME
A-29	0157	SPRING ADJUSTER
A-30	1564	SPRING ADJUSTER MOUNT (FSC)
A-31	1548	AXLE ASSY.
A-32	0811	RETAINING RING
A-33	0400	TRACKING PIVOT
A-34	0739	3/4 X 3 SHOLDER BOLT
A-35	0670	5/8 -11 NYLOCK NUT
A-36	0208	TRACKING KNOB HOLDER
A-37	1566	TRACKING KNOB ASSY. (FSC)
A-38	0835	GREASE FITTING
A-39	0859	LATCH (END DOOR)
A-41	0451	FILTER MOUNT
A-42	0184	EDGE GUIDE
A-43	1550	CABINET TOP (680)
A-44	1552	CABINET ASSY. (680)
A-45	1554	CABINET DOOR (680)
A-46	0229	CAB. DOOR PIN ( 680)
A-47	0871	WATER TANK
A-48	0868	PADDLE LATCH (DOOR)
A-49	1556	ANTI TIP BAR ( LEFT)
A-50	1558	ANTI TIP BAR ( RIGHT)
A-51	1560	SWINGOUT E.G. ASSY.
A-52	1562	SWINGOUT E.G. BASE ASSY.
A-53	0815	BRONZE BUSHING
A-54	0162	SWG.OUT EDGE GUIDE PIV.
A-55	0601	5/16-18x3/4 hex bolt
A-56	1054	CASTER FIXED
A-57	1057	CASTER SWIVEL
A-58	1484	POWER FEED CABLE MOUNT (680)
A-59	1524	BELT RELEASE HANDLE
A-60	1526	TRACKING KNOB ASSY.
A-61	0285	EDGE GUIDE BLOCK (FSC)
B-01	1464	LOWER CABINET (STONE)
B-02	1466	UPPER CABINET (STONE)
B-03	1468	ELECTRICAL CABINET DOOR
B-04	1470	ELECTRICAL CABINET
B-05	1472	INVERTER COVER
B-06	1474	CABINET LOUVRE DOOR (FSC)

DRAWING#	PART#	NAME
B-07	1476	CABINET LOUVRE DOOR
B-08	1478	LOWER CABINET DOOR
B-09	0226	CAB. DOOR PIN (STONE)
B-10	1480	END DOOR (STONE)
B-12	0232	END DOOR PIN (STONE)
B-13	0331	CLEAR SPRYSHIELD (STONE)
B-14	0130	SPRAY SHIELD MOUNT (3 PC.)
B-15	1180	LEVELING FEET
B-16	0457	WATER TANK (STONE)
B-17	1482	ROLLER BRACKET ASSY. (CASTING)
B-18	1376	ROLLER SCRAPER FLAP
B-19	1486	SCRAPER MOUNT PLATE
B-20	1402	POWER FEED ROLLER ASSY. (680)
B-21	1404	ROLLER BRACKET ASSY.
B-22	1406	ROLLER KNOB ASSY.
B-23	0388	FRAME CASTING (STONE)
B-24	1488	CASTING TOP (STONE)
B-25	1490	STONE GUARD (FLAP SIDE)
B-26	0357	STONE FLAP (RIBBED)
B-27	0352	FLAP RUB BLOCK
B-28	1492	STONE GUARD (SCREW SIDE)
B-29	1494	FRONT DOOR (STONE)
B-30	1496	END DOOR LATCH (STONE)
B-31	1498	DRESSER CARTIDGE ASSY.
B-32	1500	DRESSER CARTIRDE GASKET (FRONT)
B-33	1502	DRIP SHIELD ASSY. (STONE)
B-34	0442	TRACK
B-35	1504	GREASE FITTING (METRIC)
B-36	1506	CAR DRIP SHIELD
B-37	0391	DRESSER BRACKET
B-38	0490	DIAMOND TOOL
B-39	0367	LEAD SCREW
B-40	0370	SUPER NUT
B-41	1129	CLAMP COLLARS
B-42	0814	COGGER GEAR
B-43	0334	DRESSER SHAFT GUIDE
B-44	0745	1/16 X 1/2
B-45	0123	MICRO SWITCH ACTIVATOR



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DRAWING#	PART#	NAME
B-46	0439	ELECTRIC CYLINDER
B-47	0091	CYLINDER MOUNT
B-48	0193	COGGER MOUNT
B-49	1448	COGGER PLATE
B-50	1450	COGGER HOLDER
B-51	0268	LIFTER ROD (STONE)
B-52	1408	LIFTER BRACKET ASSY.
B-53	1452	POWER FEED CABLE MOUNT (STONE)
B-54	1454	MICRO SWITCH MOUNT PLATE
B-55	1456	MICRO SWITCH ASSY.
B-56	1460	DRIP PAN ASSY.
B-57	1458	POWERFEED ROLLER ASSY. (STONE)
C-00	0421	MOTOR POWER FEED (3 PH.)
C-01	0418	MOTOR POWER FEED (1PH.)
C-02	1410	PWR. FD. SWT.ASSY. (680)
C-03	1412	POWERFEED GEAR(STEEL)
C-04	1414	PWR. FD. COUPLER GEAR (NYLON)
C-05	0748	1/8 X 1
C-06	0507	3/16 SQ. KEYSTOCK
C-07	0424	GEAR BOX( POWER FEED)
C-08	1416	PWR. FD. MT. PLATE (680)
C-09	1418	PWR. FD.ARM ASSY. (680)
C-10	0166	P.F. LOCK PIN
C-11	0841	SPRING (LFTR/LOCK PIN)
C-12	1420	POWERFEED COVER ASSY.
C-13	1422	PWR. FD.MT. ASSY. (680)
C-14	0835	GREASE FITTING
C-15	0817	TAPERLOCK HUB (5/8")
C-16	0445	DRIVE BANDS
C-17	1424	RETROFIT LIFTER MT ASSY
C-18	1426	LIFTER ROD ASSY. (680)
C-19	1428	PRE '90' LFT. BK ASS. (FSC)
C-20	1430	PRE'90' CBL.MT BRKT (FSC)
C-21	1432	FOOT PEDAL ASSY.
C-22	1434	LIFTER KNOB ASSY. (680)
C-23	0832	LIFTER BUSHING
C-24	1436	PRE'90' LIFT BUSHMT (FSC)
C-25	1144	CABLE ASSY. (680)

DRAWING#	PART#	NAME
C-26	1440	PWR. FD MT PLATE (STONE)
C-27	1442	PWR.FD.ARM ASSY. (STONE)
C-28	0211	P.F. MOUNT (STONE)
C-29	1444	PRE'90' WEIGHT (SPEC SIZE)
C-30	0466	LIFTER KNOB
C-32	0754	1/4 X 2 1/2
C-33	1446	LIFTER KNOB ASSY. (STONE)
C-34	1141	CABLE ASSEM. (STONE)
C-35	0982	ROCKER SWITCH
C-36	0376	POWER FEED WHEEL, (W/ BNDS.)
E-01	0825	THRUST WASHER
E-02	0826	THRUST BEARINGS
E-03	1072	O-RING THRUST BRNG.
E-04	1438	O-RING WASHER
F-01	0415	MOTOR (1140)
F-02	1390	SLINGER WASHER (STONE MOTOR)
F-03	0506	1/4 SQ. KEYSTOCK
F-04	0488	FLANGE WITH KEYWAY
F-05	0487	FLANGES WITH BAL. HOLES
F-06	0448	STONE (NORTON)
F-07	1390	SLINGER WASHER (STONE MOTOR)
F-08	0449	STONE (SUPERSTRUCTURE)
G-01	1126	BUSHING CLAMP 1 1/4
G-02	1060	BELT RELEASE HANDLE COVER
G-03	1123	CLAMP 3/4"
G-04	1580	EMERGENCY STOP BUTTON (STONE)
J-01	1528	SPRAY BAR ASSY. (WITH PLUGS)
J-02	1171	PLUG(SPRAY BAR)
J-03	1078	1/4 UNION (LOWER HALF)
J-04	0265	WATER BAR SPACER
J-05	1075	O RING, (SPRAY BAR)
J-06	1081	1/4 CLOSE NIPPLE
J-07	1087	1/4 STREET ELBOW
J-08	0850	VALVE (WATER)
J-09	1093	1/4" PIPE TO 1/2" TUBE
J-10	1090	1/2 HOSE T
J-11	0475	PUMP 230 VOLT
J-12	1102	PRE FILTER CLAMP

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DRAWING#	PART#	NAME
J-13	1530	PRE FILTER SCREEN
J-14	1138	PRE FILTER
J-15	1111	SPRAY NOZZLE
J-16	1127	MALE HOSE TO 1/2" TUBE
J-17	0364	CLEAR VINYL TUBE
J-18	1159	SPRAY NOZZLE CLIP
J-19	0484	PUMP H.D.
J-20	1120	PUMP COUPLING
J-21	1508	ADAPTER 1"MALE PIPE TO MALE HOSE
J-22	0853	VALVE (WATER)(STONE)
J-23	1099	PUMP FITTING FEM. TO TUBE
J-24	1063	SPRAY NOZZLE (STONE)
J-25	1510	SPRAY NOZZLE GASKET (STONE)
J-26	1117	PUMP RISER
J-27	1096	SPRAY NOZZLE FITTING
J-28	1512	SPRAY NOZZLE BASE ASS.
J-29	1514	SPRAY NOZZLE BASE MOUNT
J-30	0259	SPRAY NOZZLE MOUNT
J-31	1516	DUMP TUBE UPPER ASSY.
J-32	1135	FILTER (STONE)
J-33	1069	O-RING DUMP TUBE
J-34	1518	DUMP TUBE LOWER ASSY.
J-36	1520	FILTER MOUNT SUPPORT PLATE
J-37	0454	FILTER MOUNT(STONE)
J-38	1156	HOSE CLIP
K-01	0409	MOTOR (680)
K-02	1012	SWITCH (115/208)
K-03	1462	SWITCH MOUNT PLATE (BALDOR)
K-04	0385	IDLER WHEEL (WITH BEARINGS)
K-05	0382	DRIVE WHEEL
K-06	0820	TAPER LOCK HUB (7/8")
K-07	0823	WHEEL BEARING
K-08	0046	WHEEL BEARING SPACER
K-09	0781	20MM X 1.5 THIN NUT
K-10	0507	3/16" KEY STOCK
K-11	1388	SLINGER WASHER
K-12	0045	AXLE SPACER (680)
K-15	0362	IDLER SEAL

N-01	0502	BEARHUG NUT
N-02	0511	1 3/4-12 FINE HEX NUT
N-03	0779	10MM X 30 HEX HEAD
N-04	0580	1/4-20 x 1 3/4 ss sloted
N-05	0847	SPRING (STONE GUARD)
N-06	1522	KNOB, (SPRAY NOZZLE/ DOOR)
N-07	1140	CABLE CLEVIS



# FONTAINE

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ORDER DATE: \_\_\_\_\_

P.O.# \_\_\_\_\_

SHIPPING DATE: \_\_\_\_\_

SHIP VIA: \_\_\_\_\_

SPECIAL INSTRUCTIONS:

PART#	QTY	DESCRIPTION	PRICE	SHOW	TOTAL
QUICK TUNE MACHINES					
1701		FONTAINE TECH WAXER, 115 V, WITH CART	3,495.00	2,995.00	
1702		FONTAINE EDGE GRINDER, MODEL 304,115 V	3,495.00	2,995.00	
WET BELT MACHINES					
1703		FONTAINE MODEL 604, 115 V OR 230 V	4,995.00	4,495.00	
1704		FONTAINE MODEL 1404 SNOWBOARD BASE MODEL	5,995.00	4,500.00	
1709		FONTAINE MODEL 680, 230 V	5,995.00	5,495.00	
1710		FONTAINE MODEL 680 WITH POWER FEED	8,495.00	7,995.00	
1711		FONTAINE MODEL 1400 SNOWBOARD GRINDER	8,495.00	7,995.00	
1712		FONTAINE MODEL 1400 SNOWBOARD GRINDER W/FEED	11,495.00	10,995.00	
1715		FONTAINE MODEL 1400-P, PRODUCTION W/ FEED	17,995.00	16,995.00	
STONE GRINDERS					
1718		FONTAINE STONE GRINDER, VARIABLE SPEED, FSS-11-VS	15,995.00	14,995.00	
1721		FONTAINE STONE/BELT COMBO, ALL OPTIONS, FSC-11-VS	21,995.00	19,995.00	
VSA PRODUCTION AND TUNING MACHINES					
1740		VSA, SEMI AUTOMATIC WIDE BELT SYSTEM	35,000.00	35,000.00	
1750		VSA, HORIZONTAL SNOWBOARD PRODUCTION SYSTEM	39,900.00	39,900.00	
BELT MACHINE ACCESSORIES					
1636		POWER FEED SYSTEM, SKI WIDTH	3,000.00	3,000.00	
****		POWER FEED SYSTEM, SNOWBOARD WIDTH	3,500.00	3,500.00	
460		SKI BRIDGE (INCLUDED WITH POWER FEED SYSTEM)	175.00	175.00	
****		PLATEN FOR 1404	495.00	495.00	
****		VARIABLE SIDE EDGE GUIDE FOR 1404 (0-3 DEGREE)	495.00	495.00	
1656		SWING-OUT EDGE GUIDE (USED WITH 680 AUTO FEED)	295.00	295.00	
328		BASE EDGE BEVELER, MODEL 604	295.00	295.00	
****		BASE EDGE BEVELER MODEL 1400/1404	495.00	495.00	
325		BASE EDGE BEVELER, MODEL 680	295.00	295.00	
1796		SNOWBOARD HANDLE VACUUM GRIP, EACH	69.00	69.00	
1659		MODEL 1400/1404 AIR PLATEN SYSTEM,	495.00	495.00	