

Customer
Ser. No.
Date
Model

# CONAIR MARTIN/WORTEX

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Part Of The Conair Group

## OPERATIONS MANUAL

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### FP SERIES

### GRANULATORS



**WARNING - Reliance on this Manual Could Result in Severe Bodily Injury or Death!**

This manual is out-of-date and is provided only for its technical information, data and capacities. Portions of this manual detailing procedures or precautions in the operation, inspection, maintenance and repair of the product forming the subject matter of this manual may be inadequate, inaccurate, and/or incomplete and cannot be used, followed, or relied upon. Contact Conair at [info@conairgroup.com](mailto:info@conairgroup.com) or 1-800-654-6661 for more current information, warnings, and materials about more recent product manuals containing warnings, information, precautions, and procedures that may be more adequate than those contained in this out-of-date manual.

MNL-00040

# **INTRODUCTION AND OVERVIEW**

## **Section 1**

CONAIR MARTIN/WORTEX sincerely appreciates your choice of equipment and we assure performance to meet your need and, indeed, the equipment will surpass your expectations if normal recommended maintenance methods are observed.

As an owner, you can be proud of CONAIR MARTIN/WORTEX granulating equipment. You have purchased the finest precision-engineered equipment available. Manufactured with superior workmanship, it will give you many years of efficient operation with the least amount of down time.

This manual provides you with a comprehensive introduction to your new CONAIR MARTIN/WORTEX equipment, along with specified maintenance suggestions. Please use this manual and keep it close at hand for easy reference.

## **SAFETY**

Detailed safety procedures are included within this manual, and should be reviewed and understood thoroughly.

## **ASSISTANCE**

When maintenance is required, and you do not find the necessary information in this manual, HELP is but a phone call away. Simply dial our service number listed below.

# **CONAIR MARTIN/WORTEX**

Part Of The Conair Group

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# **WARRANTY INFORMATION**

## **Section 2**

## MANUFACTURER'S GENERAL WARRANTY

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CONAIR MARTIN/WORTEX warrants each new product of its own manufacture to be free from defects in material and workmanship, under normal use and service, to the original owner only, for a period of one (1) year (except on knives and screens), subject to the conditions outlined in the Manufacturer's Complete Warranty. Our obligation under this warranty is limited to repair or replacement with a genuine part, any part of the product of our manufacture which is **returned to us within 30 days after the discovery of the defect**, properly identified and transportation charges prepaid, and not more than (6) months after the purchase by the original user, provided that, in our judgment, the part is defective.

Manufacturer will furnish without charge, FOB point of manufacture, a similar genuine part to replace any part of a product of its manufacture which proves to be defective in normal use and service during this period.

### NOTICE

**For additional warranty information regarding exact obligations and limitations see complete manufacturer's warranty enclosed with packing documents.**

# **INSTALLATION**

## **Section 3**

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## INSTRUCTION/INSTALLATION WARNING NOTICE

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READ AND UNDERSTAND THE ENTIRE CONTENTS OF THIS MANUAL BEFORE INSTALLING, OPERATING, OR MAINTAINING THIS EQUIPMENT.

### **IMPORTANT NOTICE**

**PLEASE READ BEFORE INSTALLATION  
(DAMAGE OR INJURY COULD OCCUR)**

THESE GRANULATORS ARE VERY DIFFERENT COMPARED TO CONVENTIONAL GRANULATORS. PLEASE TAKE A MOMENT AND READ THIS MANUAL BEFORE INSTALLING YOUR CONAIR WORTEX GRANULATOR.

## SAFE OPERATING PROCEDURES

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Equipment manufactured by **CONAIR MARTIN/WORTEX** is designed and constructed with "state of the art" precision and every possible safety provision has been incorporated at the time of manufacturing. However, no equipment can be designed for completely safe operation unless it is installed and operated as intended by the manufacturer, and unless it is protected from tampering or misuse by unauthorized personnel.

Those persons such as untrained operators or stray personnel who may be tempted to play with the controls or equipment are considered unauthorized personnel. Therefore, it is very important that the owner and/or operator take the following precautions regarding risks from mechanical components:

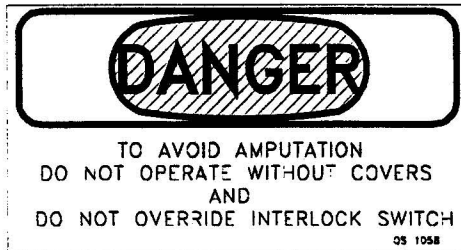
- 1) **All malfunctions or indications of improper operation** at any time during the life of the equipment should be reported to the owner to allow for immediate inspection and repair.
- 2) **No adjustments, modifications, alterations or repairs** should be made to the equipment by anyone other than qualified personnel.
- 3) **All individuals authorized to use the equipment** should be trained in the proper use of controls. All potential danger points should be specifically pointed out to the operators.
- 4) **It is suggested that a periodic review** of safety measures be conducted for all operators.
- 5) **No untrained personnel** should be allowed to operate the equipment at any time.
- 6) **Remember - safety of the operation depends on the owner and his operators.**

**CONAIR MARTIN/WORTEX MAKES NO WARRANTIES REGARDING SAFETY OF THE EQUIPMENT UNLESS THESE SAFETY INSTRUCTIONS ARE OBSERVED.**

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**SAFE OPERATING PROCEDURES**

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*figure 1**figure 2***PRECAUTIONS**

1. ALWAYS DISCONNECT POWER COMPLETELY BEFORE ATTEMPTING ANY SERVICE TO THE UNIT.
2. NEVER OPERATE THE UNIT WITH THE FEED THROAT FLAPS REMOVED OR IN POOR CONDITION.
3. NEVER OPERATE THE UNIT WITH THE GUARDS REMOVED.
4. DO NOT ATTEMPT TO OVER-RIDE SAFETY SWITCHES OR OVERLOADS.
5. NEVER ATTEMPT TO START THE GRANULATORS WITH MATERIAL IN THE CUTTING CHAMBER.
6. ALWAYS ALLOW THE UNIT TO "CLEAN OUT" BEFORE SHUTTING IT DOWN; AVOID FEEDING MATERIAL TO IT WHEN IT IS NOT OPERATING.
7. NEVER REACH INSIDE THE HOPPER WHEN FEEDING MATERIAL INTO THE MACHINE.
8. PREVENT ALL METAL AND OTHER FOREIGN MATERIAL FROM ENTERING THE HOPPER. THIS GRANULATOR IS INTENDED TO GRIND PLASTIC MATERIALS ONLY!

SPECIFICATIONS

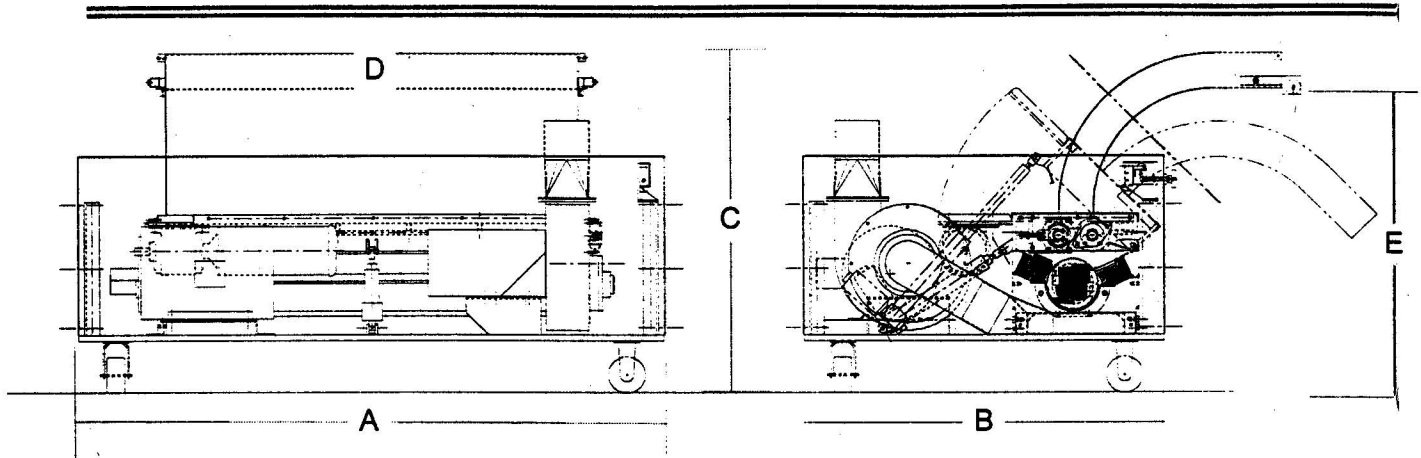


figure 3

MODELS	FP-735	FP-755
A-Length	58"	78"
B-Width	48"	48"
C-Height	50"	50"
D-Hopper Opening	4-1/2" x 35"	4-1/2" x 55"
E-Feed Tray Height	41"	41"
Cutter Arrangements	(4) Individual Stationary Blades (4) One Piece Blades Positioned On (1) Shaft	
Rotor Motor	10 h.p., , 460v, 3ph, 60 cycle	
Guide Rolls Motor	1 h.p., , 460v, 3ph, 60 cycle, w/clutch brake, and gear reducer	
Blower Data	5 h.p. 6" Dia. Discharge Vertical Duct Conveys 2lb. to 20lb. Density Materials 150ft. @ S.P. (500CFM)	
Through-Put (per hour)	* Up to 600lbs	* Up to 1000lbs
Approx. Weight	2100lbs.	2800lbs.

\* Depending on type of material and screen hole size, specifications may change without notice.

**OPTIONS:**

- Grooved Style Feed Rollers
- Screens with 3/16", 1/4", or 1/2" Holes
- 20h.p. Rotor Motor
- Cyclone Separator
- Gaylord Stand for Cyclone
- High Base

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**INSTALLATION**

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1. Insure the proper electrical voltage supply is provided.
2. **With power off and power supply Locked Out**, open machine completely - Hopper, Roll Feed Assembly, Blower and Cutting Chamber. Visually inspect for any foreign objects.
3. Check the rotor and bed knife bolts for proper torque. (220lbs/ft. recommended). Check the knife gap for a proper clearance of .004" - .006". (Depending on specific application of granulator.)
4. Close the machine completely.
5. Roll granulator in front of the press and align it centrally with the trim die.

**WARNING!**

OPERATING THE GRANULATOR IN ANY OTHER POSITION CAN RESULT IN SERIOUS INJURY, INCLUDING AMPUTATION!

GUARDS ARE TO BE PROVIDED ON THE TRIM PRESS THAT WILL PREVENT REACHING UNDER THE TRIM PRESS IN THE GRANULATOR AREA.

6. When material is fed into the hopper and tension is maintained, the dancer roller will rise and the feed roll motor brake will be released. The reverse is true when the tension is released the dancer roller lowers and the feed roll motor brake is actuated.

**WARNING!**

WHEN THE FEED ROLL MOTOR BRAKE IS APPLIED, THE OTHER MOTORS (ROTOR AND BLOWER) WILL CONTINUE TO OPERATE.

7. Remove any foreign objects on and around the unit.
8. Verify polarization of the motors on the granulator by ensuring each motor is rotating in the direction of the arrow on the motor. Unplug each motor after verification of proper polarization and proceed to the next. The sequence should be as follows: blower, rotor(granulator) and feed roll.

**NOTES**

*Make all power connections in compliance with local electrical codes and be sure the unit is properly grounded. The electrical supply should be sized for the equipment. Remember to take into account blower assembly motors when sizing.*

9. Upon completion of the electrical power installation, verify the direction of the rotor using the arrow label on the motor as a guide. The direction can be changed by switching any two fused wire leads at the disconnect switch.

**NOTE**

*Rotor shaft may be viewed by looking at the motor shaft and following the rotation arrow sticker affixed to the motor.  
Contact the Conair Service Department  
if you have any questions at 1-800-999-5677.*

10. Connect your discharge line to the blower discharge transition.

**NOTE**

*If you have your own method of regrind removal, the rate of material throughput should never exceed the rate of removal, or jam-ups within the granulator will occur.*

11. Run the granulator several minutes before feeding any material into it.
12. If all checks have been completed successfully, you may proceed to operate the granulator.

**NOTE**

*The granulator has been lubricated and tested at the factory and no further lubrication is required at this time.*

# **OPERATION GUIDELINES**

## **Section 4**

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## OPERATION GUIDELINES

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1. Do not operate with foreign articles around the granulator.
2. Do not throw purgings or large lumps into the unit.
3. Only feed the unit with the proper *volume* that the granulator is sized for and is capable of granulating.
4. Keep the knives sharp at all times. Failure to do this will result in decreased efficiency of your granulator and cause excess wear on your motors.
5. Grease the rotor shaft bearings according to the lubrication schedule. Read "Suggested Lubrication Schedule", section 5, page 10. Don't over grease. This could result in damage to the bearing seals.
6. Never block the air vent.
7. To begin operation of the granulator, you must start the motors in sequence as follows: blower, rotor(granulator), and then feed roll. To start each motor move the switch to the ON position.
8. If there is any abnormality in the sound or operation of the unit, switch to OFF immediately and refer to "Troubleshooting", section 6.
9. With normal operation, allow unit to run for several minutes.
10. After successful maintained operation, material may now be fed carefully into the feed hopper.
11. If the machine jams, disconnect and lock-out electric power supply. Open the feed roll chamber by using the hopper actuator and carefully remove the foreign parts. See also "Troubleshooting", section 6.

**WARNING!**

Rotor and bed knives are VERY sharp!  
Always use EXTREME care when accessing cutting chamber!

12. Always allow the machine to finish grinding before switching to OFF. Failure to do this could result in the machine not restarting.

# **MAINTENANCE**

## **Section 5**

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## MAINTENANCE

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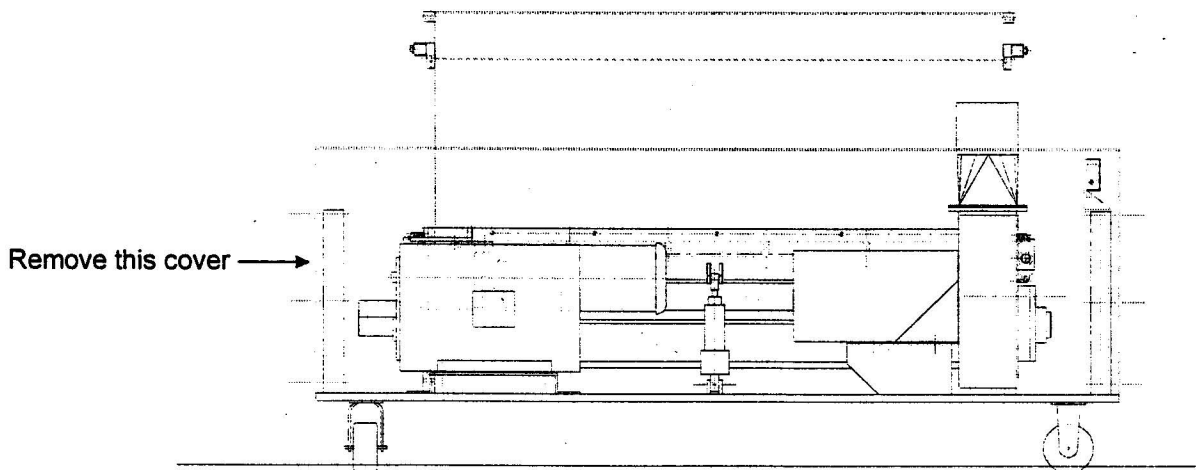
**WARNING !**

**LOCKOUT AND TAG OUT THE MAIN ELECTRICAL POWER SUPPLY TO THE GRANULATOR BEFORE PERFORMING ANY MAINTENANCE.**

**DRIVE BELT TENSION****NOTES**

*After the granulator has been installed for 2 weeks,  
tighten belts to proper tension.*

1. Verify that the power is OFF and locked out.
2. Remove the side cover from the granulator on the drive motor side.



*figure 4*

3. Loosen the nuts holding the drive motor to its adjustable base.

## Maintenance

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4. If the tension of the belt span is set properly, firm thumb pressure can depress the belts no more than 1/2" at the center.

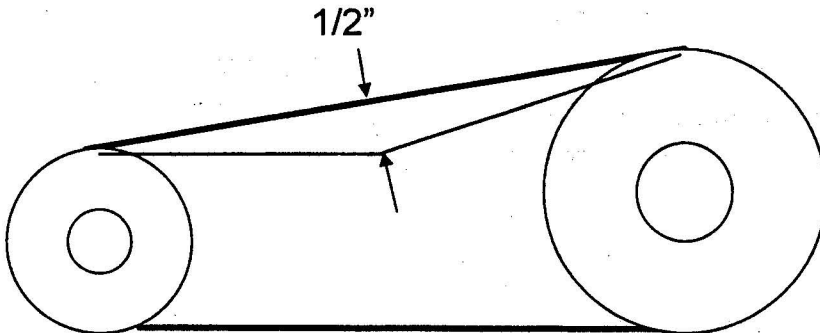


figure 5

5. Turn the adjusting bolt mounted on the side of the motor base counter-clockwise to increase belt tension and clockwise to decrease belt tension.
6. Once proper belt tension has been achieved, tighten the motor mounting nuts. Check the pulley alignment to make sure the pulleys are in line. Misalignment may cause excessive belt wear.

### **NOTES**

**NEVER USE BELT DRESSING.  
CHECK THE BELTS PERIODICALLY FOR WEAR AND CLEANLINESS.  
ALWAYS REPLACE THE BELTS AS A SET.**

7. Reinstall the side cover and return the unit to use.

## **ACCESSING THE CUTTING CHAMBER**

### **WARNING !**

**USE EXTREME CAUTION WHEN WORKING WITH THE KNIVES. THE KNIVES ARE SHARP. LOCKOUT AND TAG OUT THE MAIN ELECTRICAL SUPPLY TO THE GRANULATOR BEFORE PERFORMING ANY MAINTENANCE.**

1. Both the rotor knives and the bed knives are accessible when the feed roll chamber is open. BEFORE opening, first VERIFY that the power is LOCKED OFF.
2. Raise the feed roll chamber by using the feed roll assembly actuator switch. Disengage interlock with hand knob and open front door.

## RESETTING THE CUTTING CLEARANCES

1. See the section on "Accessing the Cutting Chamber", section 5, page 3.
2. Rotate the rotor by hand until one knife on the rotor is in cutting position with one bed knife.
3. Insert a .004 feeler gauge at point where the bed knife is closest to the rotor knife.
4. Turn the bed knife adjusting bolt in until the feeler gauge is a tight fit between the rotor knife and the bed knife. Follow the same procedure along the full length of the bed knife. (Depending on the specific application of the granulator).

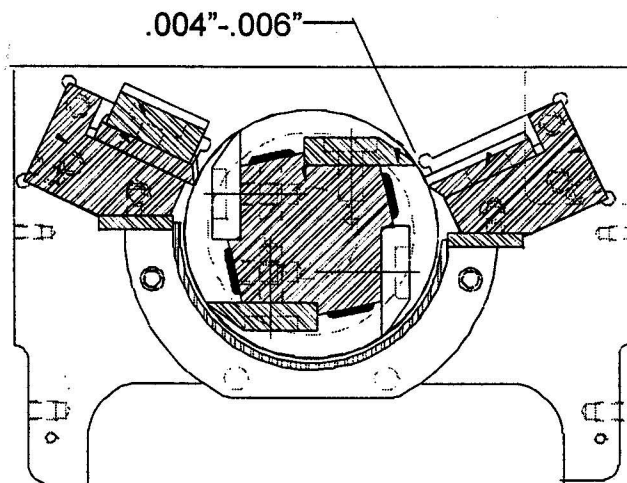


figure 6

5. Follow the same procedure on the opposite bed knife. It is important to check each rotor knife to be sure the proper clearance is maintained.
6. Tighten the bed knife bolts, adjustment screws and jam nuts.
7. Torque the bed knife bolts to 220 ft/lbs.
8. Make sure you recheck the clearance adjustment after torquing.

### **NOTE**

*Make sure you move the rotor by hand one full revolution to ensure no contact is made by the rotor knives against the bed knives*

9. Before lowering the hopper, clean all contact surfaces thoroughly to allow firm closing.

## ROTOR KNIFE REPLACEMENT

1. Read the section on "Accessing the Cutting Chamber", section 5, page 3.
2. Remove the bolts holding the rotor blade to the rotor.
3. Remove the rotor blade.
4. Carefully and thoroughly clean the rotor knife seat and bolt holes.
5. Verify that the replacement knife is the same size as the removed knife.
6. Place the knife on the rotor seat and install clean, dry bolts. Make sure the knife is fully seated . Should always replace bolts. DO NOT use old rotor bolts.

### **NOTES**

*Both rotor and bed knives are installed with grade 8 bolts. These bolts have been torqued and it is the recommendation of the bolt manufacturer they be replaced with new bolts each time the knives are replaced.*

7. Torque the knife mounting bolts to 220 ft/lbs and then check the clearance between the rotor knife seat and the knife to verify that the blade is fully seated.
8. The rotor can be turned 180° to replace the other blade using the same procedure.
9. After replacement of the blades the cutting clearance must be set. See "Resetting the Cutting Clearances", section 5, page 4.

## **BED KNIFE REPLACEMENT**

1. Read the section on "Accessing the Cutting Chamber", section 5, page 3.
2. Thoroughly clean the cutting chamber of all material.
3. Remove the bolts holding down the bed knife.
4. Loosen the adjusting bolts and unscrew them to the fully retracted position.
5. Remove the knife and thoroughly clean the bed knife seat.
6. Replace the knife and reset the clearance between the rotor blades and the bed knife; see "Resetting the Cutting Clearances".

### **NOTES**

*Both rotor and bed knives are installed with grade 8 bolts. These bolts have been torqued and it is the recommendation of the bolt manufacturer they be replaced with new bolts each time the knives are replaced.*

7. After resetting the clearances, torque the mounting bolts to 220 ft/lbs.
8. After torquing the bolts, verify that the cutting clearances have not changed.

## **SCREEN REPLACEMENT**

1. Read the section "Accessing the Cutting Chamber", section 5, page 3.
2. Remove sound (outer) panels from the front and back of the cutting chamber of the granulator.
3. Removing these panels will expose the side (inner) panels on the front and back. Remove these panels by removing cap screws through side panels and granulator frame.
4. Now with the screen completely exposed, remove all bolts securing screen to cutting chamber (Bolts will be found on side and bottom of cutting chamber).
5. Once all bolts are removed, slide screen out from side opposite drive motor.
6. To reinstall, slide screen into granulator. At this point, verify that the screen is properly aligned with the bolt holes in the granulator end plates. Once this has been done, reinstall all bolts securing screen to cutting chamber.

### ***NOTE***

*Only replace with a new screen for optimum performance from your granulator.*

7. After screen is secured, the side panels and sound panels may be reinstalled.

## **FEED ROLL REPLACEMENT**

1. Remove feed roll drive chain.
2. Remove spur gears, located opposite drive and on feed roll.
3. Remove shaft cover plate. Cover plates are held in place by 1/4" socket head cap screws installed from inner side of granulator end plates, opposite the feed roll bearing.
4. Remove bearings and take up bearing assemblies from each end of feed rolls.
5. Remove feed rolls from bottom side of feed roll assembly.
6. To reinstall, reverse the above procedure.

## **ROTOR REPLACEMENT**

1. Remove sound panels (one located on each side of granulator).
2. Remove feed roll assembly from cutting chamber.
3. Remove guard over drive belt.
4. Remove sheave from rotor.
5. Remove bearing from drive end of rotor.
6. Loosen set screws in rotor bearing at discharge end of granulator.
7. Remove side panels from granulator - one each side.
8. Remove bolts through screen and granulator end plate on drive end of granulator.
9. Remove all 5/8" bolts attaching end plate to granulator bed supports.
10. Remove end plate.
11. Slide rotor toward open end of granulator and remove.
12. To reinstall, will be reverse the above procedure and the reset the cutting clearance on the knives when rotor is in position. Read section "Resetting Cutting Clearances", section 5, page 4.

## **ROTOR BEARING REPLACEMENT**

The rotor bearing in this granulator is a piloted flanged bearing.

To remove the rotor bearings loosen the two set screws in the bearing collar and remove the four half inch bolts attaching the bearing to the end plate.

Note that two of the bolt holes in the bearing flange are tapped 5/8-11. Turn 5/8-11 bolts into these holes and the bearings will be jacked from the end plate.

Before installing the new bearings, we recommend tapping two holes 5/8-11 opposite one another, for ease of removal at a later date.

## RESHARPENING KNIVES

As with any piece of machinery that cuts, the sharpness of the knives is very important to the efficiency of the equipment. Using a granulator with dull knives reduces the efficiency of the granulator and may possibly cause damage to the granulator.

Since the type and quantity of material varies between different applications, each granulator must have its own preventive maintenance schedule setup for sharpening of rotating and stationary knives. During the first few weeks of operation, monitor the performance of the granulator very closely so that you may design a resharpening schedule based on your particular granulating needs. In doing so, you will eliminate inefficiencies in your granulator caused by dull knives.

Below are guidelines for each type of knife and procedures to follow when sharpening is necessary.

### **Rotor**

1. Keep in sets and MARK
2. Bolt together to sharpen in sets.
3. Sharpen set to sharp edge (disregard nicks).
4. When knives are under 2.859" it is no longer feasible to use them.

### **Bed**

1. These knives can be sharpened one at a time, since they are adjustable.
2. When sharpening disregard large nicks and sharpen to knife edge.

#### **NOTE**

*When checking knives for tolerance, put knife edge down on surface plate, then take an indicator and pick up any hole, preferably end hole - set at "0".  
Check all holes in all blades. (Tolerance should not be more than .004)*

## **SUGGESTED LUBRICATION SCHEDULE**

Grease fittings are located on each end of the granulator making it unnecessary to remove the granulator from beneath the press for bearing lubrication. The period of time between lubrications depends upon hours of actual granulator operation. (Type NLGI grade #2 lithium based recommended)

<b>Hours of Operation</b>	<b>Lubrication Period (Weeks)</b>	
<b>Rotor</b>	8	10
	16	5
	24	3
<b>Feed rolls:</b>	8 to 24	10

Once a month a generous amount of molybdenum disulfide spray lubricant should be applied to the chain and metallic spur gears.

Change oil level in gear box once a month, or if leakage is evident CHECK IMMEDIATELY. Proper oil level is maintained when oil is level with oil check plug on wide of gear box.

# **TROUBLESHOOTING**

## **Section 6**

**TROUBLESHOOTING**

<b>DIFFICULTY</b>	<b>PROBABLE CAUSE</b>	<b>CORRECTIVE ACTION</b>
Stalled Machine	<ol style="list-style-type: none"> <li>1. Overloading</li> <li>2. Worn, damaged or improperly set knives</li> <li>3. Screen and/or blower chute blockage</li> <li>4. Drive belt</li> <li>5. Loss of power</li> </ol>	<ol style="list-style-type: none"> <li>1. Remove blockage, if any, proceed operation and feed material slower.</li> <li>2. Re-adjust or sharpen as required.</li> <li>3. Check for obstructions in the chute and check rotation of blower.</li> <li>4. Check belt tension.</li> <li>5. Check power supply, (i.e. power connections, power source)</li> </ol>
Rotor will not turn.	<ol style="list-style-type: none"> <li>1. Unit stopped too soon at previous shutdown - should allow to clean out before stopping.</li> </ol>	<ol style="list-style-type: none"> <li>1. Disconnect power supply, open granulator - carefully remove pieces that block knife motion.</li> </ol>
Clicking sound when empty.	<ol style="list-style-type: none"> <li>1. Knives not adjusted properly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Readjust the knives. Read section "Resetting Cutting Clearances", section 5, page 4.</li> </ol>

## Troubleshooting

DIFFICULTY	PROBABLE CAUSE	CORRECTIVE ACTION
Material Overheating	1. Screen hole size too small	1. Replace with properly sized screen for application.
Knife/Screen Breakage	1. Improperly seated	1. Check for proper fit, inspect and clean seat surfaces.
Grinder jams easily.	1. Knives are dull. 2. Belts are slipping.	1. Sharpen or replace knives. 2. Adjust belt tension or replace belts if worn.
Motor will not Start	1. Main Power 2. Overheated Motor	1. Check fuses and/or circuit breakers 2. Allow motor cool and reset any overloads.

# **PARTS LIST**

## **Section 7**

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**RECOMMENDED SPARE PARTS**


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CONAIR KIT PART #	KIT-00705		KIT-00706	
	FP735		FP755	
DESCRIPTION	PART #	QTY	PART #	QTY
Rotor	SHF-00327	1	SHF-00317	1
Rotor Knives	0700-041-H30	4	0700-041-H30	4
Rotor Bearing	0700-050-250	2	0700-050-250	2
Rotor Bushing	0700-254-250	1	0700-254-250	1
Feed Roll Bearing	0700-084-112	2	0700-084-112	2
Take Up Bearing	0700-094-112	2	0700-094-112	2
Rotor Drive Belt B58	BET-00036	1	BET-00036	1
*Bed Knives (Left Hand)	0735-042-035	2	0755-042-055	2
*Bed Knives (Right Hand)	N/A	-	0755-042-056	2
Screen (3/8 standard)	0735-044-375	1	0755-044-375	1
Spur Gear	0700-100-4764A	2	0700-100-4764A	2
Blower Impeller	0100-078-145	1	0100-078-145	1

\*The FP735 series has only one bed knife per side. Due to the size of the FP755 series, the bed knife is in two pieces, left side and right side.

## FP SERIES GRANULATOR (REAR VIEW)

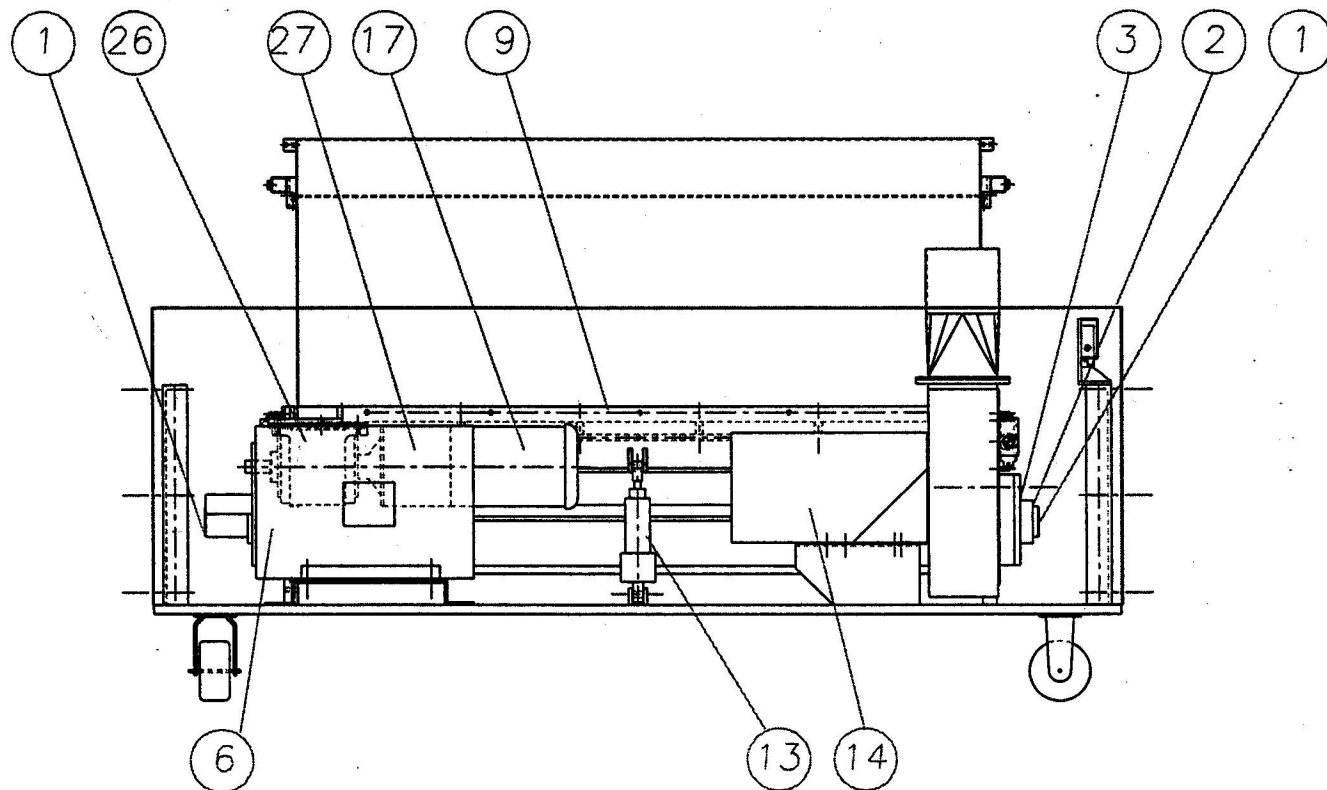


figure 7

## PARTS LIST

ITEM	QTY	DESCRIPTION	FP-735	FP-755
			PART #	PART #
1	1	Rotor	SHF-00327	SHF-00317
2	2	Rotor Bearings-4 bolt pilot flg 2-1/2bore	0700-050-250	0700-050-250
3	1	Rotor Sheave	0700-019-394	0700-019-394
4*	1	Rotor Sheave Bushing	0700-254-250	BUS-00136
5*	1	Rotor Sheave Drive Belt	BET-00036	BET-00036
6	1	Rotor Motor (10hp Standard)	MOR-00091	MOR-00091
7*	1	Rotor Motor Sheave	0700-029-354	0700-029-354
8*	1	Rotor Motor Sheave Bushing	BUS-00136	0700-253-162
9	4	Rotor Knives	0700-041-H30	0700-041-H30
10**	2	Bed Knives (Left Hand)	0735-042-035	0755-042-055
11**	2	Bed Knives(Right Hand)	N/A	0755-042-056
12	1	Screen (3/8 holes standard)	0735-044-375	0755-044-375
13	1	Feed Roll Assembly Actuator	0700-073-405	0700-073-405
13A	1	Feed Roll Actuator Switch	84577	84577
14	1	Blower Motor (5hp standard)	0100-077-005	0100-077-005
15*	1	Blower Impeller	0100-078-145	0100-078-145
16	1	Blower Discharge Transition	0735FP-107	0735FP-107
17	1	Feed Roll Drive Motor w/clutch brake	MOR-00108	MOR-00108
18*	1	Feed Roll Drive Sprocket (1"bore)	SPR-00025	SPR-00025
19*	1	Feed Roll Driven Sprocket (1-1/8" bore)	0700-099-112	0700-099-112
20	2	Feed Roll Bearings-2 bolt flange (1-1/8"bore)	0700-084-112	0700-084-112
21*	0	Feed Roll-Urethane	-	755-3470-1
22	2	Feed Roll-Steel (Grooved)	735-3469-2	755-3469-1
23*	2	Spur Gear-Deep Tooth	0700-100-4764A	0700-100-4764A
24*	1	Wiper Bar -LH (same as bed knife)	0735-042-035	0755-042-055
25*	1	Wiper Bar -RH(same as bed knife)	N/A	0755-042-056
26	1	Gear Reducer	67805	67805
27	1	Clutch Brake	0400-324-090	0400-324-090
28	2	Die Spring	SPG-00214	SPG-00214
29	2	Take Up Bearing (1-1/8 bore)	0700-094-112	0700-094-112
30*	1	End Plate-Drive End	UP00-6607	UP00-6607
31*	1	End Plate-Blower End	UP00-5939	UP00-5939
32*	1	Limit Switch Assembly	SWT-00020	SWT-00020
33*	1	Limit Switch Lever	LEV-00005	LEV-00005

\* Item not pictured

\*\* The FP735 series has only one bed knife per side. Due to the size of the FP755 series, the bed knife is in two (2) pieces, left side and right side.

FP SERIES GRANULATOR (SIDE VIEW)

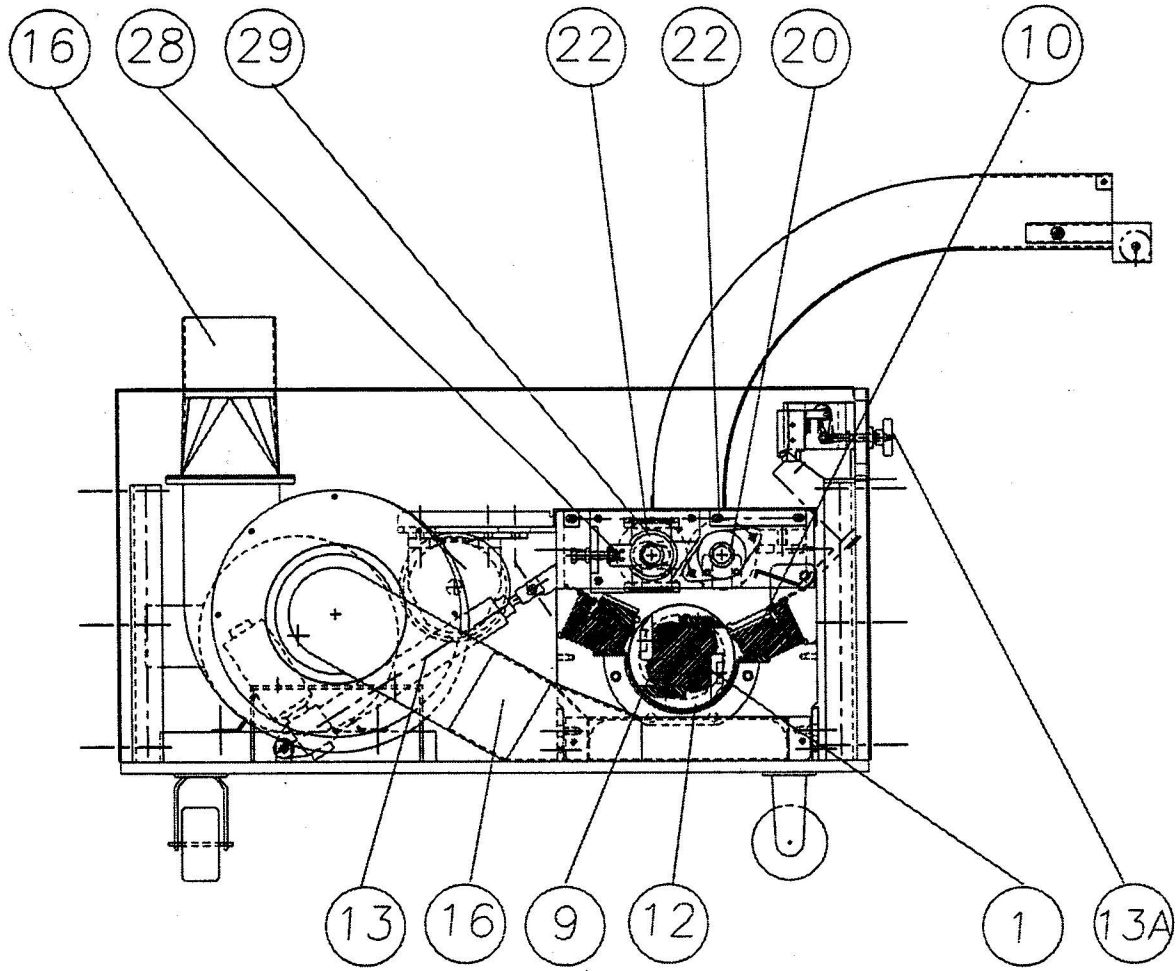


figure 8

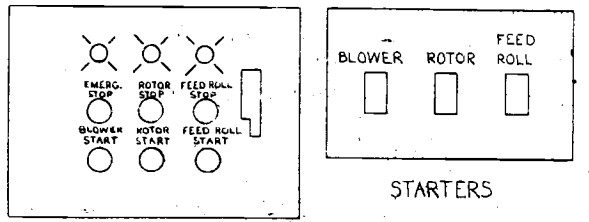
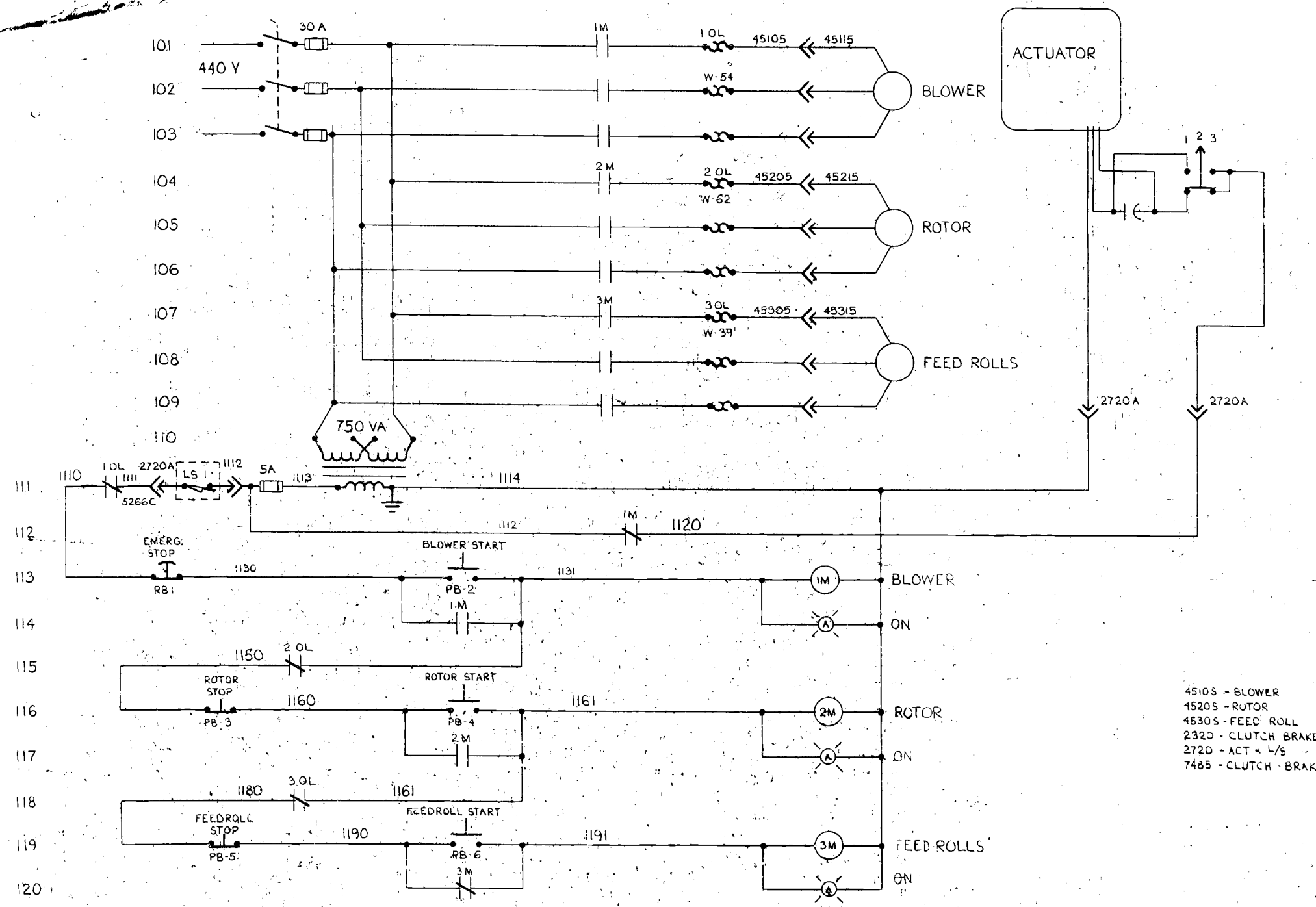
## PARTS LIST

ITEM	QTY	DESCRIPTION	FP-735	FP-755
			PART #	PART #
1	1	Rotor	SHF-00327	SHF-00317
2	2	Rotor Bearings-4 bolt pilot flg 2-1/2bore	0700-050-250	0700-050-250
3	1	Rotor Sheave	0700-019-394	0700-019-394
4*	1	Rotor Sheave Bushing	0700-254-250	BUS-00136
5*	1	Rotor Sheave Drive Belt	BET-00036	BET-00036
6	1	Rotor Motor (10hp Standard)	MOR-00091	MOR-00091
7*	1	Rotor Motor Sheave	0700-029-354	0700-029-354
8*	1	Rotor Motor Sheave Bushing	BUS-00136	0700-253-162
9	4	Rotor Knives	0700-041-H30	0700-041-H30
10**	2	Bed Knives (Left Hand)	0735-042-035	0755-042-055
11**	2	Bed Knives(Right Hand)	N/A	0755-042-056
12	1	Screen (3/8 holes standard)	0735-044-375	0755-044-375
13	1	Feed Roll Assembly Actuator	0700-073-405	0700-073-405
13A	1	Feed Roll Actuator Switch	84577	84577
14	1	Blower Motor (5hp standard)	0100-077-005	0100-077-005
15*	1	Blower Impeller	0100-078-145	0100-078-145
16	1	Blower Discharge Transition	0735FP-107	0735FP-107
17	1	Feed Roll Drive Motor w/clutch brake	MOR-00108	MOR-00108
18*	1	Feed Roll Drive Sprocket (1"bore)	SPR-00025	SPR-00025
19*	1	Feed Roll Driven Sprocket (1-1/8" bore)	0700-099-112	0700-099-112
20	2	Feed Roll Bearings-2 bolt flange (1-1/8"bore)	0700-084-112	0700-084-112
21*	0	Feed Roll-Urethane	-	755-3470-1
22	2	Feed Roll-Steel (Grooved)	735-3469-2	755-3469-1
23*	2	Spur Gear-Deep Tooth	0700-100-4764A	0700-100-4764A
24*	1	Wiper Bar -LH (same as bed knife)	0735-042-035	0755-042-055
25*	1	Wiper Bar -RH(same as bed knife)	N/A	0755-042-056
26	1	Gear Reducer	67805	67805
27	1	Clutch Brake	0400-324-090	0400-324-090
28	2	Die Spring	SPG-00214	SPG-00214
29	2	Take Up Bearing (1-1/8 bore)	0700-094-112	0700-094-112
30*	1	End Plate-Drive End	UP00-6607	UP00-6607
31*	1	End Plate-Blower End	UP00-5939	UP00-5939
32*	1	Limit Switch Assembly	SWT-00020	SWT-00020
33*	1	Limit Switch Lever	LEV-00005	LEV-00005

\* Item not pictured

\*\* The FP735 series has only one bed knife per side. Due to the size of the FP755 series, the bed knife is in two (2) pieces, left side and right side.

LETTER	REVISION	DATE	BY	APP



- 45105 - BLOWER
- 45205 - ROTOR
- 45305 - FEED ROLL
- 2320 - CLUTCH BRAKE L/S
- 2720 - ACT. L/S
- 7485 - CLUTCH BRAKE

- BOX - HOFFMAN A24A5 2608 LR 1 EA.
- BACK PANEL - HOFFMAN A24R24 1 EA.
- DISCONNECT - ALLEN BRADLEY 1494FNF 30 1 EA.
- FUSE BLOCK ADAPTER KIT 1494FC866 1 EA.
- FUSES FUSETRON FRSR-30 3 EA.
- HEATER ALLEN BRADLEY W-42 3 EA. BLOWER
- HEATER " W-54 3 EA. ROTOR
- HEATER " W-32 3 EA. FEED ROLL
- TRANSFORMER ACME TA-2-530C9-5
- FUSE FUSETRON FNM-5 1 EA.
- MICRO SWITCH BZE6 2RN80 1 EA.
- MUSHROOM BUTTON ALLEN-BRADLEY 800T-D6D2 1 EA.
- PUSH BUTTON " 800T-B6D2 2 EA.
- PUSH BUTTON " 800T-AID1 3 EA.
- FUSE HOLDER BUSS 6M6031B 1 EA.

- STARTER ALLEN-BRADLEY 509-A0D 3 EA.
- AUXILIARY CONTACT ALLEN BRADLEY 595-B 1
- AMBER LIGHT ALLIED 1050Q3 3 EA.
- PUSH BUTTON STATION ALLEN BRADLEY 800T 2 EA.
- SELECTOR SWITCH " 800T 1 EA.
- CONDUIT BOX CROUSE-HINDS FSC-1 1 EA.
- CONDUIT COVER " DS100G 1 EA.
- 1/2" SLB 1 EA.
- 1/2" CLOSE NIPPEL 1 EA.
- ACTUATOR DUFF-NORTON 1 EA.
- CAPACITOR MALLORY PSU 3015 1 EA.
- RECEPTABLE HUBBEL 45105 1 EA. A1008 CH
- " 45205 1 EA. A10PB

- RECEPTABLE HUBBEL 45305 1 EA.
- " 5256 1 EA.
- " 7487 1 EA.
- " 2721 1 EA.
- " 2320A 1 EA.
- MALE PLUG HUBBEL 45115 1 EA.
- " 45215 1 EA.
- " 45315 1 EA.
- " 5206C 1 EA.
- " 7485 1 EA.
- " 2726A 1 EA.
- " 2321 1 EA.
- TD-1 ALLEN BRADLEY 700H32A1
- DOOR HDWR. " 1494 FL1 1 EA.

		<b>WORT-EX CORPORATION</b> Old Brandon Road - Hillsboro, Texas 76645 Phone 817/582-5354		<small>This drawing is the property of WORT-EX CORPORATION and must be surrendered upon request. The information thereon may not be reproduced without the written permission from the WORT-EX CORPORATION.</small>	
QTY	ITEM	PART NUMBER	DESCRIPTION		
MATERIAL			PAINT SPEC		
FINISH (MINI & TYPE)		TOLERANCES		BREAK ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED	
1/2" - 1/8" - 1/16"		FRACTIONS: 1/32		DO NOT SCALE DRAWING	
1/4" - 1/8" - 1/16"		DECIMALS: .005		DRAWN BY: <i>WPA 8706</i> DATE: 9/28/88	
1/8" - 1/16"		XX .015		CHECKED BY:	
1/16" - 1/32"		XX .005		APPROVED BY:	
MACHINE			NO. RECD. SCALE: 1/4"		
NEXT ASSY			DRAWING NO.		
TITLE: FP-735 SERIES 3 ELEC			WD 4185		